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ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR THE YEAR

1910

Property of U. S. Patent Office

WASHINGTON
GOVERNMENT PRINTING OFFICE
1911

REPORT

OF THE

COMMISSIONER OF PATENTS

TO CONGRESS

FOR THE YEAR ENDED DECEMBER 31, 1910.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., February 2, 1911.

SIR: I have the honor to transmit through you to the House of Representatives, the Annual Report of the Commissioner of Patents for the calendar year 1910, in compliance with section 494 of the Revised Statutes.

Very respectfully,

EDWARD B. MOORE,
Commissioner.

THE SPEAKER OF THE HOUSE OF REPRESENTATIVES.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., January 31, 1911.

To the Senate and House of Representatives of the United States of America in Congress assembled:

In compliance with section 494 of the Revised Statutes I have the honor to submit the following report of the business of the Patent Office for the year ended December 31, 1910:

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications:	
Cash received	$1,726,029.00
Cash refunded	6,665.85
Net cash	1,719,363.15
Certificates of deposit	52,584.00
Total cash and certificates	1,771,947.15
Copies:	
Cash received	183,326.70
Cash refunded	7,345.23
Net cash	175,981.47
Certificates of deposit	1,294.75
Total cash and certificates	177,276.22
Recording assignments:	
Cash received	32,380.14
Cash refunded	1,618.89
Net cash	30,761.25
Certificates of deposit	231.00
Total cash and certificates	30,992.25

RECEIPTS—continued.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever—Continued.

Official Gazette:	
Cash received	$40,359.52
Cash refunded	28.35
Net cash	40,331.17
Certificates of deposit	
Total cash and certificates	40,331.17
Registration of prints and labels:	
Cash received	5,836.00
Cash refunded	975.00
Net cash	4,861.00
Certificates of deposit	54.00
Total cash and certificates	4,915.00
Court costs:	
Cash received	74.90
Cash refunded	
Net cash	74.90
Certificates of deposit	
Total cash and certificates	74.90
Aggregates.	
Cash received	1,988,006.26
Cash refunded	16,633.32
Net cash	1,971,372.94
Certificates of deposit	54,163.75
Total cash and certificates	2,025,536.69

EXPENDITURES.

Amounts expended under the several appropriations from January 1 to December 31, 1910.

	1909.	1910.
Salaries	$1,203,613.50	$1,252,450.99
Scientific library	1,626.76	1,743.01
International Union for Protection of Industrial Property	656.18	618.36
Stationery	12,215.28	10,621.36
Postage on foreign matter	960.00	1,240.00
Furniture, carpets, matting, linoleum, ice, telephones, washing towels, and sundries	15,271.78	14,649.84
Law library	457.88	383.18
Photolithographing, paid contractor	132,907.59	142,837.35
Printing and binding, for Official Gazette, indexes, printing specifications, and miscellaneous work	585,615.77	578,263.39
Rent for storage of models and removal of same	1,701.00	2,874.00
Defending suits, etc	125.40	30.46
Total	1,955,151.14	2,005,711.94

RECEIPTS AND EXPENDITURES.

Receipts from all sources	$2,025,536.69
Expenditures	2,005,711.94
Surplus	19,824.75

Surplus earnings of the Patent Office deposited in the Treasury of the United States.

Amount of total net surplus in Treasury, January 1, 1910	$6,978,402.89
Net surplus for the year 1910	19,824.75
Total net surplus, December 31, 1910	6,998,227.64

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Applications for patents for inventions	63,293
Applications for patents for designs	1,155
Applications for reissues of patents	181
Total	64,629
Caveats filed	970
Applications for registration of trade-marks	6,843
Applications for registration of labels	755
Applications for registration of prints	226
Disclaimers filed	11
Appeals on the merits	1,672
Total	10,477

Surplus earnings of the Patent Office deposited in the Treasury of the United States—Continued.

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE—continued.

Patents issued, including designs	35,807
Patents reissued	123
Total	35,930
Trade-marks registered	4,239
Labels registered	370
Prints registered	120
Total	4,729
Patents expired during the year	22,768
Applications forfeited for nonpayment of final fees	7,442
Applications allowed, awaiting final fees	11,336
Trade-mark applications passed for publication	4,402

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and designs.	One to every—	States and Territories.	Patents and designs.	One to every—
Alabama	181	11,812	North Dakota	183	3,153
Arkansas	135	11,662	Ohio	2,495	1,926
California	1,471	1,616	Oklahoma	260	6,373
Colorado	447	1,765	Oregon	219	3,071
Connecticut	990	1,126	Pennsylvania	3,418	2,242
Delaware	43	4,705	Rhode Island	278	1,951
Florida	114	6,601	South Carolina	86	17,620
Georgia	214	12,192	South Dakota	135	4,325
Idaho	105	3,100	Tennessee	248	8,809
Illinois	3,169	1,782	Texas	670	5,800
Indiana	812	3,326	Utah	124	3,010
Iowa	604	3,685	Vermont	89	3,999
Kansas	456	3,708	Virginia	240	8,548
Kentucky	267	8,576	Washington	420	2,719
Louisiana	181	9,151	West Virginia	210	5,814
Maine	149	4,981	Wisconsin	832	2,805
Maryland	305	4,247	Wyoming	34	4,293
Massachusetts	2,073	1,623	Alaska	14	4,596
Michigan	972	2,891	Arizona	49	4,170
Minnesota	601	3,443	Canal Zone	1	
Mississippi	120	14,975	District of Columbia	249	1,329
Missouri	1,097	3,002	Hawaii	14	13,707
Montana	96	3,917	New Mexico	49	6,679
Nebraska	345	3,455	Philippine Islands	4	
Nevada	41	1,992	United States Army	4	
New Hampshire	126	3,417	United States Navy	17	
New Jersey	1,469	1,727	United States Marine Corps	2	
New York	4,948	1,841			
North Carolina	183	12,056	Total	[1] 32,059	

[1] Not including 123 reissues and 29 patents withdrawn.

Patents granted to citizens of foreign countries.

Argentina	8	England	894	Netherlands	18	Spain	9
Austria-Hungary	139	Ecuador	2	Newfoundland	2	St. Lucia, West Indies	1
Belgium	61	France	315	New South Wales	23	Sweden	124
British West Indies	2	Germany	1,083	New Zealand	30	Switzerland	77
Brazil	3	Guatemala	3	Norway	35	Tasmania	1
Canada	534	India	3	Orange River Colony	2	Transvaal	28
Cape Colony	2	Ireland	12	Peru	1	Turkey	2
Chile	1	Isle of Man	1	Portugal	1	Uruguay	1
China	1	Italy	47	Queensland	2	Venezuela	1
Colombia	3	Japan	8	Roumania	3	Victoria	66
Costa Rica	2	Java	3	Russia	47	West Australia	3
Cuba	9	Luxemburg	3	Scotland	67		
Denmark	28	Mexico	31	South Australia	2	Total	3,719
Egypt	2	Natal	5				

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836, and exhibit in detail the business of the office during the last calendar year:

Comparative statement of the business of the Office from 1837 to 1910, inclusive.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1837			435	$29,289.08	$33,506.98	
1838			520	42,123.54	37,338.92	$4,784.62
1839			425	38,019.97	34,543.51	3,476.46
1840	765	228	473	38,056.51	39,020.67	
1841	847	312	495	40,413.01	52,666.87	
1842	761	291	517	36,505.63	31,241.43	5,264.20
1843	819	315	519	35,315.81	30,776.96	4,538.85
1844	1,045	380	497	42,509.26	36,344.53	6,164.73
1845	1,246	452	503	51,076.14	39,395.65	11,680.49
1846	1,272	448	638	50,264.16	46,158.71	4,105.45
1847	1,531	533	569	63,111.19	41,878.35	21,232.84
1848	1,628	607	653	67,576.69	58,905.84	8,670.85
1849	1,955	595	1,077	80,752.78	77,716.44	3,036.34
1850	2,193	602	993	86,927.05	80,100.95	6,826.10
1851	2,258	760	872	95,738.61	86,916.93	8,821.68
1852	2,639	996	1,019	112,056.34	95,916.91	16,139.43
1853	2,673	901	961	121,527.45	132,869.83	
1854	3,324	868	1,844	163,789.84	167,146.32	
1855	4,435	906	2,013	216,459.35	179,540.33	36,919.02
1856	4,960	1,024	2,505	192,588.02	199,931.02	
1857	4,771	1,010	2,896	196,132.01	211,582.09	
1858	5,364	943	3,710	203,716.16	193,193.74	10,522.42
1859	6,225	1,079	4,538	245,942.15	210,278.41	35,663.74
1860	7,653	1,084	4,819	256,352.59	252,820.80	3,531.79
1861	4,643	700	3,340	137,354.44	221,491.91	
1862	5,038	824	3,521	215,754.99	182,810.39	32,944.06
1863	6,014	787	4,170	195,593.29	189,414.14	6,179.15
1864	6,972	1,063	5,020	240,919.98	229,868.00	11,051.98
1865	10,664	1,932	6,616	348,791.84	274,199.34	74,592.50
1866	15,269	2,723	9,450	495,665.38	361,724.28	133,941.10
1867	21,276	3,597	13,015	646,581.92	639,263.32	7,318.60
1868	20,445	3,705	13,378	681,565.86	628,679.77	52,886.09
1869	19,271	3,624	13,986	693,145.81	486,430.74	206,715.07
1870	19,171	3,273	13,321	669,456.76	557,147.19	112,309.57
1871	19,472	3,366	13,033	678,716.46	562,091.64	116,624.82
1872	18,246	3,090	13,590	699,726.39	665,595.00	34,131.39
1873	20,414	3,248	12,864	703,191.77	691,178.98	12,012.79
1874	21,602	3.181	13,599	738,278,17	679,288.41	58,959.76
1875	21,638	3,094	14,837	743,453.36	721,657.71	21,795.65
1876	21,425	2,697	15,595	757,987.65	652,542.60	105,445.05
1877	20,308	2,809	14,187	732,342.85	613,152.62	119,190.23
1878	20,260	2,755	13,444	725,375.55	593,082.89	132,292.66
1879	20,059	2,620	13,213	703,931.47	529,638.97	174,292.50
1880	23,012	2,490	13,947	749,685.32	538,865.17	210,820.15
1881	26,059	2,406	16,584	853,665.89	605,173.28	248,492.61
1882	31,522	2,553	19,267	1,009,219.45	683,867.67	325,351.78
1883	34,576	2,741	22,383	1,146,240.00	675,234.86	471,005.14
1884	35,600	2,582	20,413	1,075,798.80	970,579.76	105,219.04
1885	35,717	2,552	24,233	1,188,089.15	1,024,378.85	163,710.30
1886	35,968	2,513	22,508	1,154,551.40	992,503.45	162,047.95
1887	35,613	2,622	21,477	1,144,509.60	994,472.22	150,037.38
1888	35,797	2,251	20,506	1,118,516.10	973,108.78	145,407.32
1889	40,575	2,481	24,158	1,281,728.05	1,052,955.96	228,772.09
1890	41,048	2,311	26,292	1,340,372.66	1,099,297.74	241,074.92
1891	40,552	2,408	23,244	1,271,285.78	1,139,713.35	131,572.43
1892	40,753	2,290	23,559	1,286,331.88	1,110,739.24	175,592.59
1893	38,473	2,247	23,769	1,242,871.64	1,141,038.45	101,833.19
1894	38,439	2,286	20,867	1,187,439.58	1,100,047.12	87,392.46
1895	40,680	2.415	22,057	1,245,246.93	1,106,389.49	138,857.44
1896	43,982	2,271	23,373	1,324,059.83	1,113,413.71	210,646.12
1897	47,905	2,176	23,794	1,375,641.72	1,122,843.13	252,798.59
1898	35,842	1,659	22,267	1,137,734.48	1,136,196.20	1,538.28
1899	41,443	1,716	25,527	1,325,457.03	1,211,783.73	113,673.30
1900	41,980	1,731	26,499	1,350,828.53	1,260,019.62	90,808.91
1901	46,449	1,842	27,373	1,449,398.16	1,297,385.64	152,012.52
1902	49,641	1,851	27,886	1,552,859.08	1,393,345.54	159,513.54
1903	50,213	1,771	31,699	1,642,201.81	1,448,645.81	193,156.00
1904	52,143	1,808	30,934	1,657,326.53	1,476,000.38	181,326.15
1905	54,971	1,896	30,399	1,806,758.14	1,479,633.22	327,124.92
1906	56,482	1,885	31,965	1,790,921.38	1,554,891.20	236,030.18
1907	58,762	1,967	36,620	1,910,618.14	1,631,458.36	279,159.78
1908	61,475	2,110	33,682	1,896,847.67	1,712,303.42	184,544.25
1909	65,839	1,948	37,421	2,042,828.14	1,955,151.14	87,677.00
1910	64,629	970	35,930	2,025,536.69	2,005,711.94	19,824.75

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade-mark, label, and print issued in each calendar year since July 28, 1836, when the present series of numbers of letters patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-marks.	Labels.	Prints.	Total certificates.
1836 (July 28)	1						109							
1837	110						436							
1838	546		1				515		6					
1839	1,061		7				404		13					
1840	1,465		20				458		10					
1841	1,923		30				490		6					
1842	2,413		36				488		13					
1843	2,901	1	49				494	14	11	519				
1844	3,395	15	60				478	12	7	497				
1845	3,873	27	67				475	17	11	503				
1846	4,348	44	78				566	59	13	638				
1847	4,914	103	91				495	60	14	569				
1848	5,409	163	105				584	46	23	653				
1849	5,993	209	128				988	49	30	1,067				
1850	6,981	258	158				884	83	26	993				
1851	7,865	341	184				757	90	25	872				
1852	8,622	431	209				890	109	20	1,019				
1853	9,512	540	229				846	86	29	961				
1854	10,358	626	258				1,759	57	28	1,844				
1855	12,117	683	286				1,892	70	51	2,013				
1856	14,009	753	337				2,315	107	83	2,505				
1857	16,324	860	420				2,686	113	97	2,896				
1858	19,010	973	517				3,467	102	126	3,695				
1859	22,477	1,075	643				4,165	108	231	4,504				
1860	26,642	1,183	674				4,363	183	232	4,778				
1861	31,005	1,366	1,106				3,040	142	147	3,329				
1862	34,045	1,508	1,253				3,221	195	116	3,532				
1863	37,266	1,703	1,369				3,781	176	227	4,184				
1864	41,047	1,879	1,596				4,638	139	248	5,025				
1865	45,685	2,018	1,844				6,099	221	296	6,616				
1866	51,784	2,239	2,140				8,874	294	290	9,458				
1867	60,658	2,533	2,430				12,301	325	400	13,026				
1868	72,959	2,858	2,830				12,544	446	420	13,410				
1869	85,503	3,304	3,250				12,957	506	534	13,997				
1870	98,460	3,810	3,784	1			12,157	737	439	13,333	121			121
1871	110,617	4,547	4,223	122			11,687	905	464	13,056	486			486
1872	122,304	5,452	4,687	608			12,200	884	529	13,613	491			491
1873	134,504	6,336	5,216	1,099			11,616	747	501	12,864	492			492
1874	146,120	7,083	5,717	1,591	1		12,230	886	483	13,599	559	232		791
1875	158,350	7,969	6,200	2,150	233		13,291	915	631	14,837	1,138	232		1,370
1876	171,641	8,884	6,831	3,283	465		14,172	802	621	15,595	959	472		1,431
1877	185,813	9,686	7,452	4,247	937		12,920	699	568	14,187	1,216	392		1,608
1878	198,733	10,385	8,020	5,463	1,329		12,345	590	509	13,444	1,455	492		1,947
1879	211,078	10,975	8,529	6,918	1,821		12,133	592	488	13,213	872	355		1,227
1880	223,211	11,567	9,017	7,790	2,176		12,926	515	506	13,947	349	203		552
1881	336,137	12,082	9,523	8,139	2,379		15,548	565	471	16,584	834	202		1,036
1882	251,685	12,647	9,994	8,973	2,581		18,135	861	271	19,267	947	304		1,251
1883	269,820	13,508	10,265	9,920	2,885		21,196	1,020	167	22,383	902	906		1,808
1884	291,016	14,528	10,432	10,822	3,791		19,147	1,150	116	20,413	1,021	513		1,534
1885	310,163	15,678	10,548	11,843	4,304		23,331	773	129	24,233	1,067	391		1,458
1886	333,494	16,451	10,677	12,910	4,695		21,797	595	116	22,508	1,029	378		1,407
1887	355,291	17,046	10,793	13,939	5,073		20,429	949	99	21,477	1,133	380		1,513
1888	375,720	17,995	10,892	15,072	5,453		19,585	835	86	20,506	1,059	327		1,386
1889	395,305	18,830	10,978	16,131	5,780		23,360	723	75	24,158	1,229	319		1,548
1890	418,665	19,553	11,053	17,360	6,099		25,322	886	84	26,292	1,415	304		1,719
1891	443,987	20,439	11,137	18,775	6,403		22,328	836	80	23,244	1,762	137		1,899
1892	466,315	21,275	11,217	20,537	6,540		22,661	817	81	23,559	1,737	[1] 6		1,743
1893	488,976	22,092	11,298	22,274	None.	1	22,768	902	99	23,769	1,677	None.	2	1,679
1894	511,744	22,994	11,397	23,951	None.	3	19,875	928	64	20,857	1,806	None.	4	1,810
1895	531,619	23,922	11,461	25,757	None.	7	20,883	1,115	59	22,057	1,829	None.	3	1,832
1896	552,502	25,037	11,520	27,586	6,546	10	21,867	1,445	61	23,273	1,813	1	32	1,846
1897	574,369	26,482	11,581	29,399	6,547	42	22,098	1,631	65	23,794	1,671	14	16	1,701
1898	596,467	28,113	11,646	31,070	6,561	58	20,404	1,803	60	22,267	1,238	200	35	1,473
1899	616,871	29,916	11,706	32,308	6,761	93	23,296	2,139	92	25,527	1,649	511	100	2,260
1900	640,167	32,055	11,798	33,957	7,272	193	24,660	1,758	81	26,499	1,721	737	93	2,551
1901	664,827	33,813	11,879	35,678	8,009	286	25,558	1,734	81	27,373	1,928	878	159	2,965
1902	690,385	35,547	11,960	37,606	8,887	445	27,136	640	110	27,886	2,006	767	158	2,931
1903	717,521	36,187	12,070	39,612	9,654	603	31,046	536	117	31,699	2,186	990	270	3,446
1904	748,567	36,723	12,189	41,798	10,644	873	30,267	557	110	30,934	2,158	1,114	297	3,569
1905	778,834	37,280	12,299	43,956	11,758	1,170	29,784	486	129	30,399	4,490	830	359	5,679
1906	808,618	37,766	12,428	48,446	12,588	1,529	31,181	625	159	31,965	10,568	709	656	11,933
1907	839,799	38,391	12,587	59,014	13,297	1,874	35,880	589	151	36,620	7,878	667	315	8,860
1908	875,679	38,980	12,738	66,892	13,964	2,189	32,757	757	168	33,682	5,191	618	220	6,029
1909	908,436	39,737	12,906	72,083	14,582	2,409	36,574	687	160	37,421	4,184	492	148	4,824
1910	945,010	40,424	13,066	72,267	15,074	2,557	35,168	639	123	35,930	4,239	370	120	4,729

[1] Registration of labels practically suspended May 27, 1891, under decision of the United States Supreme Court in *Higgins et al.* v. *Keuffel et al.* (55 O. G., 1139) with the registration of No. 6,545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.

Expenditures for photolithographic and photographic work since 1906–7.

Fiscal year.	Contractor.	Price per page. Current issue.	Reproduction of exhausted copies.	Library edition.	Photographic copies.	Total.
1906–1907	Norris Peters Co	[1] $0.80 [2] .65				$140,000.00
	Norris Peters Co		[3] $0.57 [4] .85			
	A. B. Graham Co			[5] $1.22		
	E. L. Parker				[6] $0.08 [7] .13	
1907–1908	Norris Peters Co	[1] .77 [2] .64				140,000.00
	J. A. Eckert		[3] .50 [4] .67			
	Columbia Planograph Co			[5] 1.15		
	H. A. Farnham				[8] .09 [7] .13	
1908–1909	Norris Peters Co	[1] .71½ [2] .57½				140,000.00
	Sackett & Wilhelms Co		Spec. [3] .42½ [4] .53 Drg. [3] .43½ [4] .55			
	Columbia Planograph Co			[5] .98		
	F. W. Ernst				[8] .12	
	C. Parker				[7] .16	
1909–1910	A. B. Graham Co	[1] 0.74				140,000.00
	A. B. Graham Co			[5] 1.00		
	Norris Peters Co	[2] .61				
	Sackett & Wilhelms Co		[3] 0.44½ [4] .57			
	F. W. Ernst				[8] .12	
	Leet Brothers				[7] .15	
1910–1911	Norris Peters Co	[1] .79				[9] 140,000.00
	Webb & Bocorselski	[2] .52				
	Sackett & Wilhelms Co		[3] .49½ [4] .58			
	Sackett & Wilhelms Co			[5] .95		
	Leet Bros				[8] .11½ [7] .11½	

[1] For 100 thin, 2 thick, and 1 bond copies.
[2] For 50 thin, 2 thick, and 1 bond copies of trade-marks and designs.
[3] For 50 copies each, mechanical and design patents and trade-marks.
[4] For 100 copies each, mechanical and design patents and trade-marks.
[5] For 150 copies.
[6] Size, 7 x 11 in.
[7] Size, 10 x 15 in.
[8] Size, 8 x 12½ in.
[9] Estimated.

Number of patents issued by the United States and foreign countries from the earliest period to December 31, 1910.

[Foreign figures for 1910 estimated.]

Country.	To 1870, inclusive.	1871 to 1910	Total.	Country.	To 1870, inclusive.	1871 to 1910	Total.
Argentina	83	8,675	8,758	Luxemburg		8,756	8,756
Australia		8,502	8,502	Malta		84	84
Austria		64,793	64,793	Mauritius	113	280	393
Austria-Hungary	15,350	67,583	82,933	Mexico	22	10,163	10,185
Bahamas		2	2	Netherlands	4,535		4,535
Barbados		148	148	Newfoundland	40	397	437
Belgium	35,044	202,456	237,500	New South Wales	236	11,740	11,976
Bolivia	42	65	107	New Zealand	109	13,606	13,715
Brazil	185	7,049	7,234	Norway	737	21,750	22,487
British Guiana	32	94	126	Paraguay		87	87
British Honduras	1	19	20	Peru		160	160
Canada	4,081	129,609	133,690	Portugal	245	6,689	6,934
Ceylon	58	714	772	Queensland	67	6,368	6,435
Chile	266	1,942	2,208	Russia	1,464	23,528	24,992
Colombia		1,015	1,015	St. Helena		4	4
Congo Free State		229	229	South African Republics		1,262	1,262
Costa Rica		61	61	South Australia	123	6,221	6,344
Cuba		1,139	1,139	Spain		44,987	44,987
Denmark	464	21,056	21,520	Straits Settlements		257	257
Ecuador		10	10	Sweden	1,629	31,734	33,363
Fiji Islands		41	41	Switzerland		50,197	50,197
Finland	112	4,036	4,148	Tasmania	43	2,426	2,469
France	103,934	336,964	440,898	Transvaal		2,550	2,550
Germany	9,996	238,110	248,106	Trinidad	6	202	208
Great Britain	53,408	371,966	425,374	Tunis		779	779
Guatemala		57	57	Turkey		2,040	2,040
Hawaii		148	148	Uruguay		380	380
Hongkong		188	188	Venezuela		234	234
Hungary		46,054	46,054	Victoria	822	12,463	13,285
India	445	10,675	11,120	West Australia		3,524	3,524
Italy and Sardinia	4,723	94,175	98,898				
Jamaica	22	223	245	Total foreign	238,437	1,899,654	2,138,091
Japan		18,962	18,962	United States	120,573	869,561	[1] 990,134
Leeward Islands		24	24				
Liberia		2	2	Grand total	359,010	2,769,215	3,128,225

[1] Including 9,957 patents issued prior to July 1, 1836.

The following comparison between the receipts, expenditures, applications filed, issues of the Office, the printed copies sold, copies of records furnished, and the number of employees for the years ended, respectively, December 31, 1899, and December 31, 1910, illustrates the growth of the business of the Patent Office:

Class.	1899	1910	Increase.	Percentage of increase.
Receipts	$1,325,457.03	$2,025,536.69	$700,079.66	52.8
Expenditures	$1,211,783.73	$2,005,711.94	$793,928.21	65.5
Applications and caveats filed	45,990	73,423	27,433	59.6
Letters patent, design and reissue patents granted, and trade-marks, labels, and prints registered	27,787	40,659	12,872	46.3
Printed copies of patents sold	1,451,519	2,299,964	848,445	58.4
Price received	$50,201.11	$108,152.30	$57,951.19	115.4
Words written in copies of records furnished	13,575,650	27,232,900	13,657,250	100.6
Number of employees	663	934	271	40.8

In 1910 there were received 63,293 applications for mechanical patents, 1,155 applications for design patents, 181 applications for reissues of patents, 6,843 applications for registration of trade-marks, 755 applications for registration of labels, and 226 applications for registration of prints. There were 35,807 patents issued, including designs; 123 patents reissued; and 4,239 trade-marks, 370 labels, and 120 prints registered. The number of patents that expired was 22,768. The number of allowed applications, awaiting the payment of final fees, was 11,336; and the number forfeited for nonpayment of the final fees, 7,442. The total receipts were $2,025,536.69; the expenditures, $2,005,711.94, and the surplus of receipts over expenditures, $19,824.75. The total balance to the credit of the Patent Office in the Treasury of the United States on December 31, 1910, was $6,998,227.64.

In proportion to population more patents were issued to citizens of Connecticut than to those of any other State—1 to every 1,126. Next in order are the following: District of Columbia, 1 to every 1,329; California, 1 to every 1,616; Massachusetts, 1 to every 1,623; New Jersey, 1 to every 1,727; Colorado, 1 to every 1,765; Illinois, 1 to every 1,782; New York, 1 to every 1,841; Ohio, 1 to every 1,926; Rhode Island, 1 to every 1,951; Nevada, 1 to every 1,992; Pennsylvania, 1 to every 2,242; Washington, 1 to every 2,719; Wisconsin, 1 to every 2,805; Michigan, 1 to every 2,891; Missouri, 1 to every 3,002; Utah, 1 to every 3,010; Oregon, 1 to every 3,071; Idaho, 1 to every 3,100; North Dakota, 1 to every 3,153; Indiana, 1 to every 3,326; New Hampshire, 1 to every 3,417; Minnesota, 1 to every 3,443; Nebraska, 1 to every 3,455; Iowa, 1 to every 3,685; Kansas, 1 to every 3,708; Montana, 1 to every 3,917; Vermont, 1 to every 3,999; Arizona, 1 to every 4,170; Maryland, 1 to every 4,247; Wyoming, 1 to every 4,293; South Dakota, 1 to every 4,325; Alaska, 1 to every 4,596; Delaware, 1 to every 4,705; Maine, 1 to every 4,981; Texas, 1 to every 5,800; West Virginia, 1 to every 5,814; Oklahoma, 1 to every 6,373; Florida, 1 to every 6,601; New Mexico, 1 to every 6,679; Virginia, 1 to every 8,548; Kentucky, 1 to every 8,576; Tennessee, 1 to every 8,809; Louisiana, 1 to every 9,151. The fewest patents granted in proportion to the number of inhabitants were in the following States and Territory: South Carolina, 1 to every 17,620; Mississippi, 1 to every 14,975; Hawaii, 1 to every 13,707; Georgia, 1 to every 12,192; North Carolina, 1 to every 12,056; Alabama, 1 to every 11,812; and Arkansas, 1 to every 11,662.

As to foreign patents, 1,083 were granted to citizens of Germany; 894 to those of England; 534 to those of Canada; 315 to those of France; 139 to those of Austria-Hungary; 124 to those of Sweden; 77 to those of Switzerland; 67 to those of Scotland; 66 to those of Victoria; 61 to those of Belgium; 47 each to those of Italy and Russia; 35 to those of Norway; 31 to those of Mexico; 30 to those of New Zealand; 28 each to those of Denmark and Transvaal; 23 to those of New South Wales; 18 to those of the Netherlands; 12 to those of Ireland; 9 each to those of Cuba and Spain; 8 each to those of Argentina and Japan; 5 to those of Natal; 3 each to those of Brazil, Colombia, Guatemala, India, Java, Luxemburg, Roumania, and West Australia; 2 each to those of British West Indies, Cape Colony, Costa Rica, Egypt, Ecuador, Newfoundland, Orange River Colony, Queensland, South Australia and Turkey; and 1 each to those of Chile, China, Isle of Man, Peru, Portugal, St. Lucia (West Indies), Tasmania, Uruguay, and Venezuela.

THE PRESENT CONDITIONS IN THE PATENT OFFICE.

The work of the examining corps has vastly improved during the last year. The searches have been more thorough and greater care has been exercised in every way by the examining force, with the result that this branch of the work is in much better condition than ever before in the history of the Office. This result has been reached and made possible by the increase in force and salaries which has been granted by the Congress in the past three years.

Previous to this period the salaries of the examiners had not been increased since 1848, or for a period of sixty years, which necessarily resulted in the loss, by resignation, of a large percentage each year of these highly educated and experienced men. At the present time, since the increase of salaries, the Commissioner has been able to retain a much larger percentage of these technically trained employees. The larger salaries have appealed also to graduates of the various universities and especially such men as have specialized in the scientific and technical branches, so that to-day the examining corps has been recruited up to its normal condition from this class of very desirable men. Since the salaries were increased, the standard of the entrance examination was raised to include more advanced questions in the subjects of mathhematics, technics, physics, chemistry, both organic and inorganic, reading and describing mechanical drawings in technical

terms, French and German; so that it can be safely asserted that the examining corps of the United States Patent Office is to-day fully the equal, if not the superior, of any like body of men in the world.

The conditions surrounding the registration of trade-marks are not as satisfactory. The trade-mark branch of the Office is quite distinctive from the regular technical work and has no special relation to the rest of the work of the Office. However, that branch of the Office has been kept up with great effort on the part of the present administration, although it has been found necessary to ask Congress through the appropriation bills to provide a force of assistant examiners of trade-marks and designs. When these are provided, it will be possible to put this branch of the work on the same high footing now attained by the regular examining corps.

In this connection permit me to say that I think it quite necessary that in view of the great importance trade-marks are to manufacturers and to commerce generally, this part of the work should be more carefully done, and by trained men. The subject of trade-marks has received a great deal of attention in this as well as foreign countries in the last year or two, and it will soon be the subject of discussion at the forthcoming Congress of the Union for the Protection of Industrial Property which convenes in Washington in May of this year. I am very clearly of the opinion that after the conference referred to has met and considered the question of trade-marks from an international standpoint, it will be quite necessary to pass a new trade-mark law. This law should be, in my opinion, very liberal and unmistakable as to provisions.

I have other important changes in the patent laws under consideration and after consulting with the Inventors' Guild, an association of the most noted inventors of the country, I intend to submit recommendations to the next Congress. I do not embrace them specifically in this report for the reason that there will not be sufficient time remaining during the closing days of the Sixty-first Congress to justify my asking you to give the necessary attention to these very important amendments suggested to the patent laws. I will also be able to utilize the time between the closing of the present Congress and the convening of the next Congress, in taking advantage of the discussions and the measures adopted by the International Congress of the Union for the Protection of Industrial Property, which will pass upon and discuss the laws of all nations relating to industrial property, more especially patent and trade-mark laws.

CLASSIFICATION OF PATENTS.

The great volume of American patents already issued numbering nearly one million, and also between two and three millions of foreign patents and about fifty thousand volumes of scientific and technical works in the library of this Bureau, should be classified and digested as soon as possible. When this subject was brought to the attention of the Committees on Appropriations of the House and the Senate, I am pleased to state that it was received with much interest and favorably discussed. The Office was given an examiner of classifications on an increased salary, and there was also provided a force of twenty assistants examiners for this special work. The classification of the United States patents is now being made, and at the present time about half of these patents have been classified.

In my opinion it would be in the interest of great economy if this force were doubled, so that this very important work could be completed at the earliest possible date. No classification in this Office has been made since its foundation, or since the first patent was issued in 1790.

The business of the Office is so enormous at the present time that it is almost impossible for the examining force to work with any great degree of certainty in making searches during the examination of applications for patents. It will also give enormous benefit to the inventors and manufacturers of the country and to the outside public generally to have this great mass of material in as perfect form for use as it is possible to make it. With this work carefully done it would not be necessary for the Commissioner of Patents to ask for an increase of force every year, as the work of examination of the applications of inventors would be very much simplified, and such patents as are granted would have a much greater degree of validity attached to them than is possible without these facilities for thorough search.

ELIMINATION OF APPEALS IN THE PATENT OFFICE.

I desire again to invite the attention of the Congress to the urgent necessity for relief in the matter of appeals in this Office. As I have recommended in former reports I desire again to urge upon the Congress the great necessity for eliminating one of the appeals of the Patent Office. This is entirely in the interest of the inventor, who is now delayed frequently from one to two years by taking an appeal to the Board of Examiners-in-Chief, which, in my opinion, is entirely unnecessary. If the three members of the present board, together with the Commissioner, the First Assistant Commissioner, and the Assistant Commissioner, were formed into one tribunal, and appeals should lie direct to this proposed new appellate court, it would result in a great saving of time and money to the inventors of the country.

A bill making these changes was passed by the Senate in the last Congress and a favorable report was made by the Committee on Patents of the House in the present Congress. It is to be hoped that this measure will be enacted into statute as soon as practicable. This recommendation has the approval of the Secretary of the Interior, who referred to it in his report to the President in the following language:

> In respect to needed legislation pertaining to patent matters, I refer to and indorse the suggestions of the Commissioner of Patents in his annual report for the year ending June 30, 1909, directing particular attention to the recommendation for the enactment of a law which would eliminate one appeal in the Patent Office, and thus diminish materially the expense and time now required in obtaining a final adjudication.

It also had the approval of the President of the United States, who is very much interested in lessening the expense of litigation, and simplifying the proceedings of the courts as far as possible, as he has frequently announced in his public speeches and in his ast message to Congress.

The following statement gives the appeals in the Patent Office for the calendar year just closed, and also the appeals to the Court of Appeals of the District of Columbia:

Decisions of the Examiner of Interferences on priority in Interference cases	312
Appeals to the Examiners-in-Chief in Interference cases	210
Ex parte appeals to Examiners-in-Chief	922
	1,132
Appeals to Commissioner in Interference cases	131
Appeals to Commissioner in Opposition cases	21
Appeals to Commissioner in Cancellation cases	5
Ex parte appeals to Commissioner	144
Interlocutory appeals to Commissioner	132
Ex parte appeals in trade-mark cases	70
	503
Petitions to Commissioner	2,370
	2,873
Appeals to Court of Appeals, District of Columbia, from the Commissioner of Patents:	
Ex parte cases	23
Interference cases	54
Opposition cases	9
Cancellation cases	2
	88

REPEAL OF CAVEAT LAW.

I am pleased to state that the Congress adopted my recommendation for the repeal of the caveat law. Although it had been in existence for some time it was considered wholly inadequate to protect in any way the inventors, and the workings under the same were very expensive to them also. Although this lessened the receipts of the Office by $20,000 a year, that fact should not be taken into consideration when so much good was done by the repeal of this law.

RIGHT OF APPEAL TO COURT OF CLAIMS.

It is very gratifying to the inventors of the country that Congress has enacted a law permitting them to file suits in the United States Court of Claims to recover payment for their inventions where such inventions have been appropriated by the Government. Heretofore the inventor, in such cases, had no redress whatever, and the United States and Russia were the only two Governments who did not adequately pay the inventors for such patented devices as they saw fit to use. This has failed to encourage inventions whose sale was only possible to Governments, as in the case of ordnance, warship building, mail devices, and inventions of all kinds relating to the general protection of the Government in every conceivable way. Of course, so long as these things were appropriated by the Government without remuneration, it had the effect of discouraging invention in these lines. In a great many cases inventors were driven to sell their meritorious inventions to foreign nations.

The bill for their relief was first passed during the last few days of the Sixtieth Congress, but the President withheld his approval. It was reintroduced in the present Congress at its first session, was passed and was signed by President Taft, and is now a law. This measure has conferred an immense amount of good upon the inventor and has had the effect of stimulating valuable inventions which the Government is constantly needing and using in many of its branches of work. I had the great honor of bringing this matter before the Patent Committees of Congress, both orally and in writing.

TREATIES WITH FOREIGN NATIONS RELATING TO INDUSTRIAL PROPERTY.

Several treaties have been entered into with foreign countries and the laws of several countries have been changed in regard to the so-called working clause.

Previously, if an invention of an American citizen was patented in this country and also abroad, and this invention were not worked abroad, the products could not be sold in these countries, if they were manufactured solely in the United States. The United States law does not embrace any such provision and never has. When that fact was brought to the attention of many nations, they took it under serious consideration, with the result that now in many of these countries it is not necessary for an American manufacturer to duplicate his plant in all other countries in which he wishes to sell his goods.

A notable case is the treaty with Germany which the Department of State sent me abroad to negotiate, and with which success crowned the efforts made. A treaty was entered into with the German Empire, which, in its broad workings, had the effect of not only protecting the American inventor, but the German inventor as well. That treaty has been construed by the imperial court sitting at Leipzig, and its provisions were upheld in some of the patents which had been declared forfeited, and they were ordered to be restored by the German Patent Office. That treaty is still in force. Treaties with other countries, of a like import, are now pending.

THE FOURTH INTERNATIONAL CONFERENCE OF AMERICAN STATES.

The Fourth International Conference of American States, which convened in the city of Buenos Aires, Argentina, on July 9 and continued until August 30, 1910, passed upon three conventions relating to patents, trade-marks, and copyrights, which were prepared by the Commissioner of Patents and who was in attendance on that congress by commission of the President of the United States, as "expert attaché." These three subjects were thoroughly discussed in committee by that congress and also upon the floor, with the result that after eight weeks of most thorough consideration, all three of said conventions were adopted by the 21 States comprising that congress. These conventions are now awaiting ratification by the respective Governments represented at that conference. When these three conventions shall have been ratified they will result in great benefit to all the nations belonging to the Pan-American Union.

One of the provisions of the trade-mark convention which was adopted, if it is permissible to state it here, is that it protects the Red Cross and the Geneva Cross insignias from improper use in all these countries.

INTERNATIONAL CONGRESS OF THE UNION FOR THE PROTECTION OF INDUSTRIAL PROPERTY.

The nations of the world, those who are adherents to the treaty of Paris of 1883, as well as all others, have been invited by the United States to hold the next congress of the union in the city of Washington, beginning May 15, 1911.

An appropriation of $10,000 was made by the Six-

tieth Congress to defray the expenses of this gathering, which was originally expected to meet in May, 1910. By communication with the international bureau at Berne, Switzerland, it was learned that there would not be sufficient time for the various nations participating—some 35 in number—to prepare material to be considered by the conference, and upon the recommendation of the Commissioner of Patents the date was changed to May, 1911. Congress, under request of the State Department, continued the appropriation. Since that appropriation was made, however, this Government has invited the 20 Pan American States to send representatives to this congress, and a great many have accepted, and the probability is that all of them will signify before the date of meeting, their intention to send delegates. This congress will be composed of members representing the various foreign nations, whose credentials will empower them to sign any measure that shall be passed by said congress, subject, however, to the subsequent approval of their respective Governments. The meeting of this congress will probably be the most important in the history of the union. Able and experienced delegates, mostly officials of the various nations, will be appointed, who will discuss and act upon measures to bring about international concessions and agreements in patent and trade-mark laws, thereby harmonizing the laws of various countries, which laws are at the present time widely at variance, so much so, in fact, that it is almost impossible for inventors and manufacturers to do business with any degree of satisfaction in the various countries.

By reason of the invitation extended to the Pan-American countries, which was extended subsequent to the appropriation of $10,000 for the expenses of the conference and entertainment of its members, Congress has been asked to appropriate an additional sum of $15,000, as the delegates will be more than doubled in number by reason of said later invitation. The first sum appropriated is not adequate to pay the expenses of this congress.

The President of the United States has, through the Secretary of State, appointed as delegates to represent the United States at this congress, the Commissioner of Patents, Hon. Edward B. Moore, chairman of the delegation; Hon. Charles H. Duell, former Commissioner of Patents, and ex-justice of the Court of Appeals of the District of Columbia; Frederick P. Fish, Esq., of Boston; Melville Church, Esq., of Washington, D. C.; and Robert H. Parkinson, Esq., of Chicago, Ill., all of whom are leaders of the patent bar and well-known authorities in patent law and practice.

COURT OF PATENT APPEALS.

The efforts of the American Bar Association to establish a court of patent appeals meets with my heartiest approval. Legislation to accomplish this end should, in my opinion, become law at the earliest practical moment. A patent is granted by the Government which is effective throughout the United States and Territories. When this patent, however, is involved in a suit which is brought in any judicial district, the final decision, on appeal, is rendered by the circuit court of appeals of that jurisdiction. A decision involving the construction of a patent by the circuit court of appeals of one jurisdiction is effective only for that jurisdiction and has no legal effect in any other of the several circuits, except through comity. There have been in the past decisions rendered by several circuit courts of appeals which are directly opposed to each other. In view of the fact that a patent, when issued, is effective in all the States and Territories it is very clear that there should be one court of patent appeals whose decisions will control the status of that patent throughout the entire country. The importance of this is evident when it is considered that there are nine circuit courts of appeals and one Court of Appeals of the District of Columbia, and each of which may and often does entertain in some particular a different view from the others with regard to the same patent.

At the request of the Committee on the Judiciary of the Senate I had the honor to advocate recently the speedy passage of the bill creating this court.

IMMEDIATE NECESSITY FOR ADDITIONAL SPACE.

I desire again to invite the attention of the Congress to the great need of a new and more commodious building to house the Patent Office. The present quarters provided are wholly inadequate. The volume of business of the Bureau increases each year, as will be clearly shown by the table embraced in the report giving the increases since the law of 1836 was passed.

I wish to express my appreciation of the assistance given me by Secretary Ballinger in my endeavors looking to the betterment of conditions in this Bureau.

Realizing the necessity existing for more working space in the Patent Office, the Secretary has, at the expense of crowding his own immediate force, made available all possible space in the building, and turned it over to the Patent Office. He even offered to vacate that portion of the building occupied by his own office, but I assured him that this sacrifice would not be necessary. At the same time, there is urgent need for newer and better quarters in which to carry on the work of this important branch of the Government.

The Patent Office has been more than self-supporting since its creation. The inventors pay for its maintenance, and not a dollar comes from the general tax revenues of the country. The surplus of receipts over expenditures each year is absolutely a net surplus, after deducting salaries and every item of expense that is charged to the Bureau.

The net surplus of all years covered into the Treasury on December 31, 1910, is $6,998,227.64. Your attention is invited to the table in this report showing the volume of business and the net surplus from 1836 to 1910, inclusive.

It is strongly urged that this sum, or so much thereof as may be necessary, be used for providing a new building in which ample room will be afforded to properly and promptly transact the business of the inventors, for which they more than pay the total cost.

The sum represents the net earnings of the Patent Office, and it is due to the inventors of this country that the money should be utilized for the purposes of providing suitable facilities for expediting the work of the Patent Office. It is necessary that patents for new inventions should be issued with the utmost

promptness after the application for patent has been filed, for such inventions form the basis of vast industries, which inure not merely to the profit of the inventor but to the benefit of the manufacturer, the laborer, the trader, the professional man, and the consumer, and to the commercial interests of the country in general.

Great Britain and Germany have each recognized the necessity for providing ample facilities for the work of their patent offices and have each recently erected new buildings for their patent offices which are in every way more commodious and better adapted to the business of a patent office than the building which now houses the United States Patent Office, although the patent business of either of those countries is but a small fraction compared with that transacted in the United States Patent Office.

If I may be permitted, I would suggest the passage at this session of the bill introduced by the late Senator Daniel on April 15, 1909 (S. 1629). The structure and location meet my full approval.

Respectfully submitted.

EDWARD B. MOORE,
Commissioner of Patents.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1910.

Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

[Abbreviations: "Sp."=Monthly Volume of Specifications; "Gaz."=Official Gazette.]

A. Karlson Metall & Maskin Aktiebolag. (See Thors, Karl O. S., assignor.)
A. Kimball Company. (See Baum, Louis, assignor.)
A. Mecky Co. (See Ledig, Richard G., assignor.)
A. Schrader's Son. (See Neubert, Alois, assignor.)
A-Theuca-Ine Medical & Manufacturing Company, The. (See Burdick, Fulton, and Williams, assignors.)
A. B. Chase Company, The. (See Barnes, Charles W., assignor.)
A. B. Chase Company, The. (See Cooper, William F., assignor.)
A. B. Dick Company. (See Brasseur, Ernest J., assignor.)
A. B. Dick Company. (See Dick, Albert B., assignor.)
A. B. Farquhar Company. (See Eisenhart, Henry W., assignor.)
A. B. Farquhar Company. (See Rohrbach, Hamilton, assignor.)
A. G. Spalding & Bros. (See Jacobus, Charles, assignor.)
A. G. Spalding & Bros. (See King, Charles M., assignor.)
A. G. Spalding & Bros. Mfg. Co. (See Nuttall, John, assignor.)
A. H. Andrews Co. (See Anderson, George E., assignor.)
A. H. Heisey & Co. (See Sanford, Andrew J., assignor.)
A. H. Heisey & Co. (See Whipple, Clyde S., assignor.)
A. H. Light Engineering Company. (See Light, Arthur H., assignor.)
A. J. Deer Co., The. (See Bartz, Frank, assignor.)
A. L. Haley Architect Incorporated. (See Haley, Arthur L., assignor.)
A. R. Milner Seating Company, The. (See Milner, Albert R., assignor.)
A. R. Mosler & Co. (See Mosler, Arthur R., assignor.)
A. T. Wall Company. (See Willard, Rathbun, assignor.)
A. V. Manning's Sons. (See Meyer, Ernest D., assignor.)
A. W. Harrington Company, The. (See Harrington, Alexander W., assignor.)
Aagaard, August, Elgin, Ill. Fish-hook. No. 973,246; Oct. 18; Sp. p. 3837; Gaz. vol. 159; p. 656.
Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic bell-ringer. No. 962,688; June 28; Sp. p. 5180; Gaz. vol. 155; p. 904.
Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical apparatus. No. 962,689; June 28; Sp. p. 5182; Gaz. vol. 155; p. 905.
Aalborg, Christian, Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric switching device. No. 963,735; July 12; Sp. p. 1575; Gaz. vol. 156; p. 265.
Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil for electromagnets. No. 973,838; Oct. 25; Sp. p. 5086; Gaz. vol. 159; p. 883.
Aalborg, Christian, Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Fluid-pressure-controlled switching device. No. 974,328; Nov. 1; Sp. p. 577; Gaz. vol. 160; p. 84.
Aalborg, Christian, Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric heating device. No. 974,329; Nov. 1; Sp. p. 578; Gaz. vol. 160; p. 85.
Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated boiler. No. 974,330; Nov. 1; Sp. p. 580; Gaz. vol. 160; p. 85.
Aaron, Solomon E., Charlestown, Mass. Pumping apparatus. No. 952,294; Mar. 15; Sp. p. 3704; Gaz. vol. 152; p. 662.
Aaron, Solomon E., Charlestown, Mass. Pumping apparatus. No. 979,633; Dec. 27; Sp. p. 4790; Gaz. vol. 161; p. 840.
Aarons, Alexander A., New York, N. Y. Automatic piano-player. No. 973,839; Oct. 25; Sp. p. 5087; Gaz. vol. 159; p. 884.
Aasen, John, Hatton, N. D. Wrench. No. 974,331; Nov. 1; Sp. p. 581; Gaz. vol. 160; p. 86.
Abate, Walter L. (See Krug, Philip F., assignor.)
Abate, Walter L., Mount Vernon, N. Y. Machine-tool. No. 945,665; Jan. 4; Sp. p. 1409; Gaz. vol. 150; p. 220.
Abate, Walter L., Mount Vernon, N. Y. Air-cylinder. No. 949,872; Feb. 22; Sp. p. 4400; Gaz. vol. 151; p. 788.
Abbe, George C., Lansdowne, assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Draw-head. No. 969,023; Aug. 30; Sp. p. 6774; Gaz. vol. 157; p. 1180.
Abbe, George C., Lansdowne, assignor to Baldwin Locomotive Works, Philadelphia, Pa. Locomotive-frame. No. 970,287; Sept. 13; Sp. p. 2450; Gaz. vol. 158; p. 413.
Abbenzeller, Alfred D. (See Poole and Abbenzeller.)
Abbott, Augustus, Seattle, Wash. Machine for counting and packaging coins. No. 961,473; June 14; Sp. p. 2537; Gaz. vol. 155; p. 445.
Abbott, Charles C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Locking mechanism for voting-machines. No. 954,771; Apr. 12; Sp. p. 2334; Gaz. vol. 153; p. 403.
Abbott, Clinton, Zinc, Ark. Can-opener. No. 964,361; July 12; Sp. p. 2878; Gaz. vol. 156; p. 475.
Abbott, Delon H., Vandemere, N. C. Cultivating-machine. No. 962,288; June 21; Sp. p. 4301; Gaz. vol. 155; p. 743.
Abbott Dental Brush Manufacturing Company, The. (See Abbott, James H., assignor.)
Abbott, Edward J., Mission City, British Columbia, Canada. Envelop sealing and stamping machine. No. 959,283; May 24; Sp. p. 6206; Gaz. vol. 154; p. 1037.
Abbott, Edward J., Mission City, British Columbia, Canada. Stamp-affixing mechanism. No. 973,465; Oct. 25; Sp. p. 4301; Gaz. vol. 159; p. 755.
Abbott, George E., Hartford, Conn., assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Tumbling-barrel. No. 970,977; Sept. 20; Sp. p. 3911; Gaz. vol. 158; p. 668.
Abbott, James F., St. Louis, Mo. Advertising device. No. 963,109; July 5; Sp. p. 224; Gaz. vol. 156; p. 29.
Abbott, James H., assignor to The Abbott Dental Brush Manufacturing Company, Philadelphia, Pa. Dental brush. No. 959,191; May 24; Sp. p. 6023; Gaz. vol. 154; p. 1006.
Abbott, James H., assignor to The Abbott Dental Brush Manufacturing Company, Philadelphia, Pa. Dental brush. No. 959,416; May 24; Sp. p. 6454; Gaz. vol. 154; p. 1081.
Abbott, John. (See Browne, Ralph C., assignor.)

Alphabetical list of patentees—Continued.

Abbott, John D., Eastbourne, England. Change-speed and reversing gearing. No. 972,672; Oct. 11; Sp. p. 2529; Gaz. vol. 159; p. 431.

Abbott, Twyman O., Seattle, Wash. Combined sash-lock and weather-strip. No. 946,305; Jan. 11; Sp. p. 2855; Gaz. vol. 150; p. 473.

Abbott, Warren E., assignor of one-half to W. F. Hains, Wilmington, Ohio. Horseshoe-calk. No. 955,246; Apr. 19; Sp. p. 3351; Gaz. vol. 153; p. 597.

Abbott, William G., Jr., Philadelphia, Pa. Gas-engine. No. 961,059; June 7; Sp. p. 1647; Gaz. vol. 155; p. 276.

Abbott, William H., and H. G. Baker, assignors to Baker and Martin Manufacturing Company, Harlan, Iowa. Pipe-pusher. No. 968,022; Aug. 23; Sp. p. 4640; Gaz. vol. 157; p. 810.

Abbott, William O., assignor to W. G. Wilkins, Pittsburg, Pa. Door for coke-ovens. No. 950,983; Mar. 1; Sp. p. 1083; Gaz. vol. 152; p. 174.

Abbott, William W., Ingram, Pa. Globe, shade, and chimney holder. No. 972,089; Oct. 4; Sp. p. 1249; Gaz. vol. 159; p. 212.

Abbs, James, and E. Matthews, Philadelphia, Pa. Horseshoe. No. 977,993; Dec. 6; Sp. p. 1228; Gaz. vol. 161; p. 198.

Abeel, Foland R., Tacoma, Wash. Centrifugal separator. No. 969,591; Sept. 6; Sp. p. 952; Gaz. vol. 158; p. 150.

Abel, John, Jersey City, N. J., assignor to Russell, Burdsall & Ward Bolt and Nut Co., Port Chester, N. Y. Furniture construction. No. 949,108; Feb. 15; Sp. p. 2799; Gaz. vol. 151; p. 496.

Abell, Irvin H., assignor to G. W. Goff, East Hampton, Conn. Buckle. No. 978,101; Dec. 6; Sp. p. 1461; Gaz. vol. 161; p. 236.

Abell, Robert, Uttoxeter, borough of Derby, England. Picking-motion for vertical looms. No. 957,725; May 10; Sp. p. 2593; Gaz. vol. 154; p. 449.

Abell, Rollin, Boston, assignor of one-half to G. W. Currier, Methuen, Mass. Flexible shafting. No. 970,675; Sept. 20; Sp. p. 3288; Gaz. vol. 158; p. 566.

Abernethy, Harry M., Cleveland, Ohio. Railway safety switch and signal device. No. 947,219; Jan. 25; Sp. p. 4883; Gaz. vol. 150; p. 833.

Abernethy, Harry M., Cleveland, Ohio. Railway-switch machine. No. 959,039; May 24; Sp. p. 5693; Gaz. vol. 154; p. 956.

Abernethy, Henry, Berkeley, Cal. Hay or stevedore's hook. No. 950,687; Mar. 1; Sp. p. 476; Gaz. vol. 152; p. 77.

Ableman, Ephraim A., Gheen, Minn. Folding crate. No. 952,492; Mar. 22; Sp. p. 4112; Gaz. vol. 152; p. 757.

Ableman, Ephraim A., Gheen, Minn. Stump-extractor. No. 955,737; Apr. 19; Sp. p. 4428; Gaz. vol. 153; p. 764.

Ablett, Charles. (See Oulton, Ablett, and Lightfoot.)

Ablett, William F., Pittsburg, Pa. Vending-machine. No. 973,332; Oct. 18; Sp. p. 4012; Gaz. vol. 159; p. 686.

Ablett, William F., Pittsburg, Pa. Check-controlled apparatus. No. 976,114; Nov. 15; Sp. p. 4429; Gaz. vol. 160; p. 751.

Abraham, Adolf, Charlottenburg, Germany. Hydraulic ram. No. 974,620; Nov. 1; Sp. p. 1236; Gaz. vol. 160; p. 190.

Abrahams, William, Philadelphia, Pa. Cap. No. 946,306; Jan. 11; Sp. p. 2857; Gaz. vol. 150; p. 474.

Abrahmsohn, Isidor, assignor, by mesne assignments, to O. and J. Mez, Freiburg in Breisgau, Germany. Bristle-rim for rotary brushes. No. 955,738; Apr. 19; Sp. p. 4430; Gaz. vol. 153; p. 764.

Abram, Richard, Chicago, Ill. Stamp-affixing machine. No. 965,497; July 26; Sp. p. 5388; Gaz. vol. 156; p. 922.

Abrames, Harvey. (See Coleman and Abrames.)

Abrams, Charles E., and C. H. Mason, Chatham, N. Y. Elastic non-skidding tire-chain. No. 954,844; Apr. 12; Sp. p. 2519; Gaz. vol. 153; p. 429.

Abrams, Fred, Minden, Nebr. Wagon-box fastener. No. 951,929; Mar. 15; Sp. p. 2996; Gaz. vol. 152; p. 543.

Abrams, Jesse E., assignor to Continental Can Company, Baltimore, Md. Machine for forming can-bodies. No. 949,722; Feb. 15; Sp. p. 4026; Gaz. vol. 151; p. 701.

Abrams, Jesse E., assignor to Continental Can Company, Baltimore, Md. Blank-feeding mechanism. No. 955,112; Apr. 12; Sp. p. 3042; Gaz. vol. 153; p. 516.

Abrams, Jesse E., and J. C. Taliaferro, Baltimore, Md. Tool for applying caps to bottles. No. 949,609; Feb. 15; Sp. p. 3819; Gaz. vol. 151; p. 665.

Abrams, John A., Wadsworth, Ohio. Pressure-regulating valve for gas-burners. No. 973,609; Oct. 25; Sp. p. 4614; Gaz. vol. 159; p. 803.

Abrams, John M., Bentley Manor, N. Y. Automatic tool-operating device. No. 965,550; July 26; Sp. p. 5535; Gaz. vol. 156; p. 942.

Abrams, Percy G., Philadelphia, Pa. Joint for furniture. No. 978,530; Dec. 13; Sp. p. 2401; Gaz. vol. 161; p. 414.

Abramson, Arthur, *et al.* (See Ostman, Joseph O., assignor.)

Abresch, Eugen. (See Vervuert, Gottfried, assignor.)

Absalom, Arthur, and J. B. Maris, Montgomery, W. Va. Splicer. No. 948,985; Feb. 15; Sp. p. 2537; Gaz. vol. 151; p. 457.

Abtmeyer, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric heating or cooking apparatus. No. 977,580; Dec. 6; Sp. p. 375; Gaz. vol. 161; p. 55.

Acee, Alfred E., Knoxville, Tenn. Check-controlled apparatus. No. 950,200; Feb. 22; Sp. p. 5143; Gaz. vol. 151; p. 903.

Acetylene Lamp Company. (See Harris, William W., assignor.)

Ach, George von, Newark, N. J. Tank for administering oxygen. No. 946,307; Jan. 11; Sp. p. 2859; Gaz. vol. 150; p. 474.

Ach, Lorenz, Mannheim, assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Esters of diglycollic acid and preparation of same. No. 948,084; Feb. 1; Sp. p. 635; Gaz. vol. 151; p. 103.

Achard, John W., Philadelphia, Pa. Means for operating end-cell switches. No. 955,448; Apr. 19; Sp. p. 3780; Gaz. vol. 153; p. 664.

Achée, Emygde J., Bayou Goula, La. Railway apparatus for burning grass and weeds. No. 945,898; Jan. 11; Sp. p. 1996; Gaz. vol. 150; p. 331.

Achée, Emygde J., Bayou Goula, La. Hydrocarbon injector-burner. No. 945,899; Jan. 11; Sp. p. 1998; Gaz. vol. 150; p. 331.

Acheson, Edward G., Stamford township, Welland county, Canada. Deflocculating insoluble bodies. No. 964,478; July 19; Sp. p. 3127; Gaz. vol. 156; p. 545.

Acheson, Edward G., Niagara Falls, N. Y. Lubricant. No. 966,636; Aug. 9; Sp. p. 1717; Gaz. vol. 157; p. 293.

Achter, Henry J., Cedar Rapids, Iowa. Self-indexing ledger. No. 949,514; Feb. 15; Sp. p. 3635; Gaz. vol. 151; p. 633.

Acker, Finley, Philadelphia, Pa. Screen and absorber for cigars. No. 972,428; Oct. 11; Sp. p. 1974; Gaz. vol. 159; p. 346.

Acker, Julius J., Horton, Kans., assignor of twenty-four and one-half one-hundredths to C. L. Bundy, Jersey City, N. J., and fifty-one one-hundredths to W. P. Murphy, St. Louis, Mo. Car-door fastener. No. 972,978; Oct. 18; Sp. p. 3243; Gaz. vol. 159; p. 564.

Ackerly, Noah T., East Patchogue, N. Y. Table. No. 946,951; Jan. 18; Sp. p. 4355; Gaz. vol. 150; p. 716.

Ackerman, Albert J., assignor to C. De Lukacsevics, New York, N. Y. Envelop-machine. No. 974,621; Nov. 1; Sp. p. 1238; Gaz. vol. 160; p. 190.

Ackerman, Albert J., assignor to C. De Lukacsevics, New York, N. Y. Hygienic siphon. No. 976,244; Nov. 22; Sp. p. 4788; Gaz. vol. 160; p. 819.

Ackerman, Charles F., Cleveland, Ohio. Faucet-syringe. No. 964,730; July 19; Sp. p. 3804; Gaz. vol. 156; p. 632.

Ackerman, Charles F., Cleveland, Ohio. Faucet-coupling. No. 964,731; July 19; Sp. p. 3805; Gaz. vol. 156; p. 633.

Ackerman, David V. (See Duff, Edward E., assignor.)

Ackerman, Maurice, Washington, D. C. Flying-machine. No. 971,235; Sept. 27; Sp. p. 4470; Gaz. vol. 158; p. 782.

Ackerman, Maurice, assignor of fifteen one-hundredths to H. Goldman, Washington, D. C. Folding seat. No. 970,777; Sept. 20; Sp. p. 3522; Gaz. vol. 158; p. 602.

Ackerman, William. (See Nicholas and Ackerman.)

Ackerman, William, Sapulpa, Okla. Spring-wheel for vehicles. No. 946,091; Jan. 11; Sp. p. 2388; Gaz. vol. 150; p. 397.

Ackermann, William H., assignor of one-half to H. Schreier, Sheboygan, Wis. Guard for set-screws. No. 945,834; Jan. 11; Sp. p. 1852; Gaz. vol. 150; p. 309.

Acme Automatic Street Indicating Company, The. (See Small, Thomas W., assignor.)

Acme Column Company. (See Tresidder, John J., assignor.)

Acme Flexible Clasp Company. (See MacMurray, James E., assignor.)

Acme Flexible Clasp Company. (See Norton, Elliott S., assignor.)

Acme High-Speed Knife and Manufacturing Company. (See Ross, Frederick M., assignor.)

Acme-Keystone Manufacturing Company. (See McCool, William A., assignor.)

Acme Shear Company, The. (See Wheeler, David C., assignor.)

Acme Shear Company, The. (See Wheeler, Dwight C., assignor.)

Acme Shear Company, The. (See Wheeler, Dwight and D. C., assignors.)

Acme Staple Company. (See Michener, Elwood H., assignor.)

Acme Wrapping Machine Company. (See McGirr, Theodore G., assignor.)

Acorn Brass Manufacturing Company. (See Eason, Hartt H., assignor.)

Acorn Brass Manufacturing Company. (See Osterhorn, William, assignor.)

Acorn Brass Manufacturing Company. (See Wray, Park G., assignor.)

Acrey, Charles M. (See Goss, George W., assignor.)

Actien Gesellschaft für Anilin Fabrikation. (See Haugwitz, Rudolph, assignor.)

Actien Gesellschaft für Anilin Fabrikation. (See Hausmann, Emil, assignor.)

Alphabetical list of patentees—Continued.

Actien Gesellschaft für Anilin Fabrikation. (See Herzberg and Ronus, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Oster, Heinrich, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Späth, Carl, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Ullmann, Fritz, assignor.)
Actien-Gesellschaft vorm. Seidel & Naumann. (See Burkhardt, Arthur, assignor.)
Actiengesellschaft fuer Kohlendestillation, The. (See Roelofsen, Jan A., assignor.)
Adair, Charles E., assignor to Cyphers Incubator Company, Buffalo, N. Y. Incubator-heater. No. 953,310; Mar. 29; Sp. p. 5868; Gaz. vol. 152; p. 1060.
Adair, Charles E., assignor to Cyphers Incubator Company, Buffalo, N. Y. Brooder. No. 959,097; May 24; Sp. p. 5826; Gaz. vol. 154; p. 976.
Adair, Charles E., assignor to Cyphers Incubator Company, Buffalo, N. Y. Heater for brooders and incubators. No. 961,667; June 14; Sp. p. 2946; Gaz. vol. 155; p. 509.
Adair, Charles T., and R. G. Hardgrave, Tucumcari, N. Mex. Stitching-machine. No. 976,330; Nov. 22; Sp. p. 4971; Gaz. vol. 160; p. 847.
Adair-Usher Process Limited. (See Usher, Charles E. D., assignor.)
Adam, Antoine, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Means for protecting bolts, nuts, &c. No. 972,140; Oct. 4; Sp. p. 1354; Gaz. vol. 159; p. 228.
Adam, Emile, New York, N. Y. Grinder and polisher. No. 952,399; Mar. 15; Sp. p. 3896; Gaz. vol. 152; p. 697.
Adam, Fredrick B., assignor to Frank Adam Electric Company, St. Louis, Mo. Plug-switch. No. 973,096; Oct. 18; Sp. p. 3496; Gaz. vol. 159; p. 603.
Adam, Roman E., Corona, N. Y. Self-closing device for doors. No. 967,289; Aug. 16; Sp. p. 3114; Gaz. vol. 157; p. 540.
Adams, Alfred N., Stockton, Cal. Gearing. No. 958,061; May 17; Sp. p. 3533; Gaz. vol. 154; p. 595.
Adams, Alonzo T., assignor to Marseilles Manufacturing Company, Marseilles, Ill. Wagon jack or elevator. No. 956,507; May 3; Sp. p. 1; Gaz. vol. 154; p. 3.
Adams, Arthur H., Antwerp, Belgium, assignor to Western Electric Company, Chicago, Ill. Test device. No. 966,728; Aug. 9; Sp. p. 1915; Gaz. vol. 157; p. 324.
Adams, Austin J., *et al.* (See Prilliman, Daniel, assignor.)
Adams-Bagnall Electric Company, The. (See Adams, Thomas E., assignor.)
Adams, Charles B., Ferguson, Mo. Cooking stove or cabinet. No. 947,779; Feb. 1; Sp. p. 1; Gaz. vol. 151; p. 3.
Adams, Charles W., Putney, Vt. Shutter operating and fastening device. No. 979,910; Dec. 27; Sp. p. 5402; Gaz. vol. 161; p. 934.
Adams, Chester L., *et al.* (See Sohn, Alfred L., assignor.)
Adams, Columbus F., *et al.* (See Wood, Sidney J., assignor.)
Adams Company, The. (See Farwell, Fay O., assignor.)
Adams, Edward A., Liberty, Nebr. Headlight-controller for automobiles. No. 960,763; June 7; Sp. p. 1065; Gaz. vol. 155; p. 178.
Adams, Edward S., Columbus, Ohio. Wind-shield. No. 962,406; June 28; Sp. p. 4539; Gaz. vol. 155; p. 807.
Adams, Edward T., assignor to Allis-Chalmers Company, Milwaukee, Wis. Piston. No. 961,080; June 7; Sp. p. 1702; Gaz. vol. 155; p. 283.
Adams, Edwin W. (See Brooks, John M., assignor.)
Adams & Elting Co. (See Doering, Charles, Jr., assignor.)
Adams, Francis, Pawtucket, R. I. Non-refillable bottle. No. 952,400; Mar. 15; Sp. p. 3897; Gaz. vol. 152; p. 697.
Adams, Francis W. (See Sawitzke, Yates, and Adams, assignors.)
Adams, Francis W., Chicago, Ill. Joint for metal beds. No. 945,736; Jan. 11; Sp. p. 1611; Gaz. vol. 150; p. 273.
Adams, Frank F. (See Malmros and Adams.)
Adams, Fred S. (See Davis and Adams.)
Adams, Harry A., East Hartford, Conn. Insulation-cutting pliers. No. 964,600; July 19; Sp. p. 3439; Gaz. vol. 156; p. 588.
Adams, Harry A., assignor, by mesne assignments, to E. E. Pryor, Reading, Pa. Oscillating motor. No. 973,400; Oct. 18; Sp. p. 4167; Gaz. vol. 159; p. 710.
Adams, Harry C., assignor to W. & J. Sloane, New York, N. Y. Stair-carpet fastener. No. 952,401; Mar. 15; Sp. p. 3898; Gaz. vol. 152; p. 698.
Adams, Harry E. (See Hardy, Robert W., assignor.)
Adams, Harry E., Pittsburg, Pa. Combined soldering-iron and blow-torch. No. 956,921; May 3; Sp. p. 917; Gaz. vol. 154; p. 145.
Adams, Harry E., Toledo, Ohio, assignor to The Monroe Electrical Manufacturing Company, Monroe, Mich. Ground-clamp. No. 972,489; Oct. 11; Sp. p. 2107; Gaz. vol. 159; p. 367.
Adams, Harry H., New York, N. Y. Car construction. No. 945,666; Jan. 4; Sp. p. 1412; Gaz. vol. 150; p. 220.
Adams, Harry H., New York, N. Y. Car construction. No. 954,908; Apr. 12; Sp. p. 2670; Gaz. vol. 153; p. 452.
Adams, Harry H., Baltimore, Md. Passenger-car. No. 957,639; May 10; Sp. p. 2420; Gaz. vol. 154; p. 418.
Adams, Henry M., Oxford, Nebr. Car-indicator. No. 953,311; Mar. 29; Sp. p. 5869; Gaz. vol. 152; p. 1060.
Adams, Henry M., Oxford, Nebr. Telephone, fence, and telegraph pole. No. 962,109; June 21; Sp. p. 3915; Gaz. vol. 155; p. 683.
Adams, Henry T., assignor to Henry T. Adams Co., Chicago, Ill. Watch-holder for motor-vehicles. No. 961,571; June 14; Sp. p. 2755; Gaz. vol. 155; p. 477.
Adams, Huston S., Harrington, Wash. Grain-separator. No. 956,617; May 3; Sp. p. 237; Gaz. vol. 154; p. 40.
Adams, James D., Monessen, assignor to W. H. Rowe, Pittsburg, Pa. Machine for piercing billets. No. 971,512; Oct. 4; Sp. p. 1; Gaz. vol. 159; p. 3.
Adams, James W., Curtis, Nebr. Manufacturing concrete compositions. No. 949,924; Feb. 22; Sp. p. 4522; Gaz. vol. 151; p. 807.
Adams, Jefferson O., New Iberia, La. Harness. No. 971,426; Sept. 27; Sp. p. 4816; Gaz. vol. 158; p. 843.
Adams, Joel U., Cincinnati, Ohio. Body-brace. No. 945,359; Jan. 4; Sp. p. 774; Gaz. vol. 150; p. 119.
Adams, John A., deceased, (C. Butker, administrator,) and C. W. Butker, Warwick, Ohio. Machine for making concrete blocks. No. 954,367; Apr. 5; Sp. p. 1421; Gaz. vol. 153; p. 236.
Adams, John H., and E. D. Wallace, Minneapolis, Minn., assignors, by mesne assignments, to Adams Letter Folding Machine Company, Chicago, Ill. Feed device for folding-machines. No. 960,138; May 31; Sp. p. 8046; Gaz. vol. 154; p. 1352.
Adams, John M. (See Sawitzke, Yates, and Adams.)
Adams, John Q., Vassar, Mich. Bean-sorting machine. No. 948,123; Feb. 1; Sp. p. 710; Gaz. vol. 151; p. 116.
Adams, John Q., Sr., Pittsburg, Pa. Gouging-tool. No. 979,911; Dec. 27; Sp. p. 5404; Gaz. vol. 161; p. 934.
Adams, John R., Burslem, England. Laundry-iron. No. 952,295; Mar. 15; Sp. p. 3706; Gaz. vol. 152; p. 663.
Adams & Johnson Co. (See Burke, Anslem L., assignor.)
Adams, Joseph D. and R. E., Indianapolis, Ind.; said R. E. Adams assignor to said Joseph D. Adams. Road-drag. No. 968,912; Aug. 30; Sp. p. 6560; Gaz. vol. 157; p. 1142.
Adams, Joseph F., St. Clair, Mich. Box-blank and using the same. No. 959,098; May 24; Sp. p. 5828; Gaz. vol. 154; p. 976.
Adams, Joseph H., Brooklyn, N. Y. Oil-converting process. No. 976,975; Nov. 29; Sp. p. 6412; Gaz. vol. 160; p. 1095.
Adams Letter Folding Machine Company. (See Adams and Wallace, assignors.)
Adams, Louis R., New York, N. Y. Aeroplane. No. 965,792; July 26; Sp. p. 6043; Gaz. vol. 156; p. 1025.
Adams, Malcolm G., Parsons, Kans. Flying-machine. No. 966,151; Aug. 2; Sp. p. 653; Gaz. vol. 157; p. 105.
Adams, Oscar B., assignor of one-half to R. E. Smith, Atlanta, Ga. Tray-raiser. No. 960,139; May 31; Sp. p. 8048; Gaz. vol. 154; p. 1352.
Adams, Otto. (See Phinney and Adams.)
Adams, Powell O., Cameron, Tex. Rail-joint. No. 970,158; Sept. 13; Sp. p. 2160; Gaz. vol. 158; p. 368.
Adams, Powell O., Cameron, Tex. Rail-joint No. 970,159; Sept. 13; Sp. p. 2162; Gaz. vol. 158; p. 369.
Adams, Ralph N., Corvallis, Oreg. Woodworking-tool. No. 975,494; Nov. 15; Sp. p. 3154; Gaz. vol. 160; p. 538.
Adams-Randall, Charles, New York, N. Y. Telephone-repeater. No. 970,288; Sept. 13; Sp. p. 2452; Gaz. vol. 158; p. 413.
Adams-Randall, Charles, New York, N. Y. Telephone-transmitter. No. 980,042; Dec. 27; Sp. p. 5674; Gaz. vol. 161; p. 977.
Adams, Robert, London, England. Lock. No. 961,996; June 21; Sp. p. 3651; Gaz. vol. 155; p. 642.
Adams, Robert G., Hayward, Cal. Receptacle-closure. No. 950,887; Mar. 1; Sp. p. 897; Gaz. vol. 152; p. 143.
Adams, Roy E. (See Adams, Joseph D. and R. E.)
Adams, Theodore C., Portland, Oreg. Feed-bag. No. 967,874; Aug. 23; Sp. p. 4311; Gaz. vol. 157; p. 761.
Adams, Thomas E., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Electric-arc lamp. No. 963,736; July 12; Sp. p. 1577; Gaz. vol. 156; p. 265.
Adams, Thomas J. (See Berkebile, Robert F., assignor.)
Adams, Thomas W., Collinwood, assignor of one-third to G. W. Albaugh, Cleveland, Ohio. Switch-signal. No 975,922; Nov. 15; Sp. p. 4061; Gaz. vol. 160; p. 684.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Truck-brake. No. 946,931; Jan. 18; Sp. p. 4324; Gaz. vol. 150; p. 710.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 951,040; Mar. 1; Sp. p. 1173; Gaz. vol. 152; p. 192.
Adams, Walter S., assignor to The J. G. Brill Co., Philadelphia, Pa. Maximum-traction truck. No. 959,040; May 24; Sp. p. 5695; Gaz. vol. 154; p. 957.
Adams & Westlake Company, The. (See Hamm, William S., assignor.)
Adams & Westlake Company, The. (See Krohn, Nels, assignor.)
Adams & Westlake Company, The. (See Newbold, Roger M., assignor.)
Adams & Westlake Company, The. (See Newpher, Alfred H., assignor.)

Adams & Westlake Company, The. (See Williston, M Brock, assignor.)
Adams, William J., Cochranton, Pa. Combined fertilizer-distributer and seeder. No. 971,338; Sept. 27; Sp. p. 4657; Gaz. vol. 158; p. 815.
Adams, William T. (See Green, Frederick D., assignor.)
Adamson, Alexander, Akron, Ohio. Removable cover for vulcanizers. No. 955,739; Apr. 19; Sp. p. 4431; Gaz. vol. 153; p. 764.
Adamson, Andrew G. (See Still and Adamson.)
Adamson, Andrew G., assignor to said Adamson and D. M. Still and Sons Limited, London, England. Manufacture of incandescent mantles. No. 965,057; July 19; Sp. p. 4463; Gaz. vol. 156; p. 743.
Adamson, George D., Indianapolis, Ind. Machine for sharpening and honing razors. No. 972,979; Oct. 18; Sp. p. 3246; Gaz. vol. 159; p. 565.
Adamson, Nils F., assignor of one-half to T. J. Tully, Denver, Colo. Facing-mold. No. 969,435; Sept. 6; Sp. p. 604; Gaz. vol. 158; p. 96.
Adamson, Oliver E., Sheldahl, Iowa. Attachment for cultivators. No. 960,764; June 7; Sp. p. 1067; Gaz. vol. 155; p. 179.
Adcock, Edward A., assignor to The Pulsometer Engineering Company, Limited, Reading, England. Keyboard mechanism for printing-machines. No. 966,978; Aug. 9; Sp. p. 2465; Gaz. vol. 157; p. 406.
Adcock, Edward A., assignor to The Pulsometer Engineering Company Limited, Reading, England. Type-distributing machine. No. 966,979; Aug. 9; Sp. p. 2468; Gaz. vol. 157; p. 407.
Adcock, Edward A., assignor to The Pulsometer Engineering Company, Ltd., Reading, England. Type-setting machine. No. 975,194; Nov. 8; Sp. p. 2543; Gaz. vol. 160; p. 410.
Adcox, Clayton T., and D. A. Headrick, Randolph, La. Stop for conveyers. No. 953,572; Mar. 29; Sp. p. 6448; Gaz. vol. 152; p. 1153.
Adder Cash Register Syndicate Limited. (See Postans, Arthur J., assignor.)
Addicks, Diedrich C., Stroh, assignor to Ideal Concrete Machinery Company, South Bend, Ind. Mold-press. No. 961,332; June 14; Sp. p. 2256; Gaz. vol. 155; p. 398.
Adding and Subtracting Machine Company. (See Hoch, Adam, assignor.)
Adding Typewriter Company. (See Dysart, Birney, assignor.)
Adding Typewriter Company. (See Raber, Joseph, assignor.)
Addis, Jacob. (See Hengel and Addis.)
Addison, Albert A. (See Addison, Thomas and A. A.)
Addison, Thomas and A. A., Covington, Tenn. Road-scraper. No. 947,707; Jan. 25; Sp. p. 5993; Gaz. vol. 150; p. 998.
Addressograph Company. (See Duncan, Joseph S., assignor.)
Ade, William F., Williamsport, Pa. Spring-bed. No. 977,253; Nov. 29; Sp. p. 7008; Gaz. vol. 160; p. 1192.
Adell, Edward and J., Orange, Mass. Machine for truing the bases of tenpins. No. 947,708; Jan. 25; Sp. p. 5994; Gaz. vol. 150; p. 998.
Adell, John. (See Adell, Edward and J.)
Adelman, William, Hoboken, N. J. Dental mouth-prop. No. 959.684; May 31; Sp. p. 7045; Gaz. vol. 154; p. 1196.
Aden, William, Saratoga, Wyo. Plow attachment. No. 978,259; Dec. 13; Sp. p. 1834; Gaz. vol. 161; p. 320.
Aderhold, Alexander J., Birmingham, Ala. Cotton and lint condenser. No. 947,220; Jan. 25; Sp. p. 4885; Gaz. vol. 150; p. 833.
Aderhold, Alexander J., Birmingham, Ala. Boiler-alarm. No. 963,028; July 5; Sp. p. 1; Gaz. vol. 156; p. 3.
Adix, Francis F., Boone, Iowa. Draw-bar for harrows. No. 950,421; Feb. 22; Sp. p. 5569; Gaz. vol. 151; p. 976.
Adkins, Joseph H., assignor of one-half to T. G. Walker, Chatham, Va. Lace-cabinet. No. 958,062; May 17; Sp. p. 3535; Gaz. vol. 154; p. 596.
Adkins, Silvester E. (See Hawkins, Adkins, and Call.)
Adkinson, Alpheus D., and L. Cady, Glasco, Kans. Grain-stacking apparatus. No. 953,679; Apr. 5; Sp. p. 1; Gaz. vol. 153; p. 3.
Adlam, William L., Milwaukee, Wis. Sanitary meat-rack. No. 959,685; May 31; Sp. p. 7045; Gaz. vol. 154; p. 1196.
Adler, Ignaz, Susine-Gjurjenovac, Austria-Hungary. Feed-water purifier for boilers. No. 961,060; June 7; Sp. p. 1653; Gaz. vol. 155; p. 276.
Adler, John W., Williamstown, Ohio. Rotary brush. No. 961,061; June 7; Sp. p. 1655; Gaz. vol. 155; p. 276.
Adler, Philep, *et al.* (See Neuman, Isaac, assignor.)
Adler, Wilhelm, Cologne, Germany. Lock for connecting chain ends. No. 953,731; Apr. 5; Sp. p. 95; Gaz. vol. 153; p. 19.
Adlerwerke vorm. Heinrich Kleyer Aktiengesellschaft. (See Lindenberg, Alfred, assignor.)
Adlerwerke vorm. Heinrich Kleyer Aktiengesellschaft. (See Paul, Adam, assignor.)
Adreon, Edward L., Jr. (See Clarke, Marcus S., assignor.)
Adreon, Edward L., Jr. (See Clarke and Adreon.)
Adreon, Edward L., Jr. (See Portteus, James G., assignor.)
Adreon, Robert E., assignor to Westinghouse Automatic Air & Steam Coupler Company, St. Louis, Mo. Interchange coupling device. No. 950,812; Mar. 1; Sp. p. 755; Gaz. vol. 152; p. 120.
Adrian, James, Halfway, Oreg. Advertising device. No. 961,062; June 7; Sp. p. 1657; Gaz. vol. 155; p. 277.
Adriance, Benjamin. (See Calleson, Amos, assignor.)
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Duplex can-heading machine. No. 947,271; Jan. 25; Sp. p. 5016; Gaz. vol. 150; p. 850.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Bottle-cap-assembling machine. No. 947,272; Jan. 25; Sp. p. 5021; Gaz. vol. 150; p. 850.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Machine for making articles of sheet metal. No. 947,273; Jan. 25; Sp. p. 5026; Gaz. vol. 150; p. 851.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Sealing bottles. No. 965,498; July 26; Sp. p. 5391; Gaz. vol. 156; p. 922.
Adt, Howard E. (See Leonard, Wilbur A., assignor.)
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 963,029; July 5; Sp. p. 3; Gaz. vol. 156; p. 3.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 963,349; July 5; Sp. p. 774; Gaz. vol. 156; p. 113.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 967,292; Aug. 16; Sp. p. 3118; Gaz. vol. 157; p. 540.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 970,160; Sept. 13; Sp. p. 2163; Gaz. vol. 158; p. 369.
Adt, Leo F., Albany, N. Y. Spectacles. No. 975,195; Nov. 8; Sp. p. 2545; Gaz. vol. 160; p. 410.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 977,151; Nov. 29; Sp. p. 6800; Gaz. vol. 160; p. 1155.
Adt, Leo F., Albany, N. Y. Nose-guard for eyeglasses. No. 977,152; Nov. 29; Sp. p. 6802; Gaz. vol. 160; p. 1156.
Adt, Leo F., Troy, N. Y. Lens-mount for eyeglasses. No. 964,732; July 19; Sp. p. 3806; Gaz. vol. 156; p. 633.
Adt, Leo F., Troy, N. Y. Spring for eyeglasses. No. 967,290; Aug. 16; Sp. p. 3115; Gaz. vol. 157; p. 540.
Adt, Leo F., Troy, N. Y. Guard for eyeglasses. No. 967,291; Aug. 16; Sp. p. 3117; Gaz. vol. 157; p. 540.
Adt, Leo F., Troy, N. Y. Eyeglasses. No. 969,683; Sept. 6; Sp. p. 1126; Gaz. vol. 158; p. 181.
Adt, Leo F., Troy, N. Y. Mounting for eyeglasses. No. 972,980; Oct. 18; Sp. p. 3247; Gaz. vol. 159; p. 565.
Advance Bag Company, The. (See Appel, Daniel, assignor.)
Ady, Joseph W. (See Morrison, Byron L., assignor.)
Aeolian Company, The. (See Schnabel, Edmund, assignor.)
Aeolian Company, The. (See Votey, Edwin S., assignor.) (Reissue.)
Aeolian Company, The. (See Young, Francis L., assignor.)
Aeppli-Meier, Jacob. (See Philipp and Aeppli-Meier.)
Aerial Amusement Construction Company. (See Budge, George A., assignor.)
Aero Plunge Co. (See Karr, Burton A., assignor.)
Aff, John. (See Slaybaugh and Aff.)
Affelder, William L., Brownfield, Pa. Railway-crossing. No. 973,904; Oct. 25; Sp. p. 5233; Gaz. vol. 159; p. 907.
Affelder, William L., and M. Gorton, Brownfield, Pa. Apparatus for watering coke in coke-ovens. No. 949,290; Feb. 15; Sp. p. 3162; Gaz. vol. 151; p. 557.
Affelder, William L., and M. Gorton, Brownfield, Pa. Apparatus for watering coke in coke-ovens. No. 954,241; Apr. 5; Sp. p. 1165; Gaz. vol. 153; p. 194.
Affleck, Edward G., assignor to T. S. Wilkinson, Jr., U. S. Navy. Firing timing device. No. 977,254; Nov. 29; Sp. p. 7009; Gaz. vol. 160; p. 1192.
Agel, Oscar, and C. F. Isleib, Paterson, N. J. Stop-motion mechanism for spinning-machines, &c. No. 957,453; May 10; Sp. p. 2053; Gaz. vol. 154; p. 356.
Agersburg, Christian T., and J. A. Loff, Chicago, Ill. Adjustable shade-fixture. No. 978,260; Dec. 13; Sp. p. 1835; Gaz. vol. 161; p. 320.
Agnic, Michael, *et al.* (See Dunkle, Samuel K., assignor.)
Agre, Carl S., Volga, S. D. Windmill. No. 953,890; Apr. 5; Sp. p. 406; Gaz. vol. 153; p. 74.
Agrell, Frans G., Stockholm, Sweden. Device for controlling the consecutive operation of electromagnets. No. 973,737; Oct. 25; Sp. p. 4881; Gaz. vol. 159; p. 848.
Agrell, Frans G., Stockholm, Sweden. Selecting device. No. 979,404; Dec. 27; Sp. p. 4289; Gaz. vol. 161; p. 761.
Agrell, Frans G., Stockholm, Sweden, assignor to L. J. Doolittle, Brooklyn, N. Y. Soap-dispensing machine. No. 969,829; Sept. 13; Sp. p. 1491; Gaz. vol. 158; p. 257.
Agrell, Frans G., Stockholm, Sweden, assignor to L. J. Doolittle, Brooklyn, N. Y. Soap-dispensing machine. No. 969,830; Sept. 13; Sp. p. 1493; Gaz. vol. 158; p. 257.
Agutter, John J., Seattle, Wash. Metering panel-board. No. 947,956; Feb. 1; Sp. p. 372; Gaz. vol. 151; p. 60.
Ahlbom, Karl A., Stockholm, Sweden. Milking-machine. No. 958,685; May 17; Sp. p. 4922; Gaz. vol. 154; p. 808.
Ahle, John F. (See Smith and Ahle.)
Ahlen, William, Duquesne, Pa. Spraying device. No. 961,195; June 14; Sp. p. 1935; Gaz. vol. 155; p. 350.

Alphabetical list of patentees—Continued.

Ahlquist, Karl, Rugby, England, assignor to General Electric Company. Liquid seal or packing. No. 945,900; Jan. 11; Sp. p. 1999; Gaz. vol. 150; p. 332.
Ahlsell, Fritiof L. (See Thompson, Lars O. T., assignor.)
Ahman, Frank P., Norfolk, Va. Railway-switch. No. 971,236; Sept. 27; Sp. p. 4473; Gaz. vol. 158; p. 783.
Ahrendts, Ashton O. C. (See Silverman, William, assignor.)
Aichele, Albert, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Electric driving mechanism for vehicles. No. 960,140; May 31; Sp. p. 8049; Gaz. vol. 154; p. 1353.
Aiken, Charles W., West New Brighton, assignor to Houchin-Aiken Company, Brooklyn, N. Y. Soap-slabbing machine. No. 963,413; July 5; Sp. p. 906; Gaz vol. 156; p. 134.
Aiken, Charles W., West New Brighton, assignor to Houchin-Aiken Co., Brooklyn, N. Y. Machine for cutting soap. No. 970,161; Sept. 13; Sp. p. 2166; Gaz. vol. 158; p. 369.
Aiken, Edward L., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Horn-support. No. 952,225; Mar. 15; Sp. p. 3559; Gaz. vol. 152; p. 639.
Aiken, Edward L., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-record mold. No. 956,922; May 3; Sp. p. 919; Gaz. vol. 154; p. 146.
Aiken, Edward L., East Orange, assignor to Edison Manufacturing Company, West Orange, N. J. Kinetoscope. No. 967,293; Aug. 16; Sp. p. 3123; Gaz. vol. 157; p. 541.
Aikins, Oscar, Logue, Pa. Hook. No. 949,014; Feb. 15; Sp. p. 2607; Gaz. vol. 151; p. 467.
Ainge, George H. (See Weinland and Ainge.)
Ainge, George H., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Boiler-tube cleaner. No. 958,205; May 17; Sp. p. 3820; Gaz. vol. 154; p. 646.
Ainlay, Ernest E. (See Sidey, Franklin, assignor.)
Ainsworth, Alfred W., S. J. Putnam, and K. A. Edstrom, Denver, Colo. Blank-trimming machine. No. 956,871; May 3; Sp. p. 808; Gaz. vol. 154; p. 128.
Air Cleaner Company, The. (See Squier, Arthur H., assignor.)
Air-Line Carrier Company. (See Thompson, Clement E., assignor.)
Airhart, Walter, Highmore, S. D. Riprap. No. 964,362; July 12; Sp. p. 2879; Gaz. vol. 156; p. 475.
Ajax Electric Tool Company. (See Sedgwick, Harry A., assignor.)
Ajax-Grieb Rubber Company. (See Gordon, Albert E., assignor.)
Akard, Dolvan B., San Francisco, Cal. Shock-absorber. No. 966,290; Aug. 2; Sp. p. 946; Gaz. vol. 157; p. 150.
Aker, Joseph H., East Orange, N. J. Hair-comb. No. 960,243; June 7; Sp. p. 1; Gaz. vol. 155; p. 3.
Akerlind, Gustaf A., Chicago, Ill. Insectarium. No. 948,805; Feb. 8; Sp. p. 2180; Gaz. vol. 151; p. 370.
Akerman, John W., Newburyport, Mass. Internal-combustion engine. No. 974,544; Nov. 1; Sp. p. 1085; Gaz. vol. 160; p. 163.
Akerson, Ernest A., Lindstrom, Minn. Portable track. No. 964,601; July 19; Sp. p. 3441; Gaz. vol. 156; p. 588.
Akerstream, James, and J. H. Ferguson, Winnipeg, Manitoba, Canada. Hot-air furnace. No. 966,878; Aug. 9; Sp. p. 2272; Gaz. vol. 157; p. 878.
Akimoff, Nicholas W., Philadelphia, Pa. Rotary pump. No. 979,634; Dec. 27; Sp. p. 4792; Gaz. vol. 161; p. 841.
Akin, James H., Wichita, Kans. Head-rest. No. 966,637; Aug. 9; Sp. p. 1718; Gaz. vol. 157; p. 293.
Akins, Lee J., Beckville, Tex. Guano-distributer. No. 977,773; Dec. 6; Sp. p. 781; Gaz. vol. 161; p. 121.
Akins, Randall P. (See Rothwell and Akins.)
Akins, Randall P., assignor to The Colorado Iron Works Company, Denver, Colo. Ore-screen. No. 952,061; Mar. 15; Sp. p. 3247; Gaz. vol. 152; p. 585.
Akron Hi-Potential Porcelain Company, The. (See Austin, Arthur O., assignor.)
Aktiebolaget Eskilstuna Separator. (See Andersson, Carl E., assignor.)
Aktiebolaget L. M. Ericsson & Co. (See Christensen, Peter V., assignor.)
Aktiebolaget Ljungstroms Augturbin. (See Ljungström, Birger, assignor.)
Aktiebolaget Merkantila Ingeniörsbyrän. (See Anderberg, Anders, assignor.)
Aktiebolaget Separator. (See Forsberg, Erik, assignor.)
Aktiebolaget Svenska Slipskifvor. (See Wallén, Lars R. L., assignor.)
Aktiebolaget Svenska Vapen-Och Ammunitions Fabriken. (See Sjögren, Carl A. T., assignor.)
Aktiebolaget Vapenfabriken Excellent. (See Blomén, Axel L., assignor.)
Aktiengesellschaft Arnold B. Heine & Co. (See Roos, Arnold, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Aichele, Albert, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Amsler, Paul, assignor.)
Aktiengesellschaft für den Vertrieb von Kuchengeschirr-Spühlapparaten "Triumph." (See Jaekle, Gustav, assignor.)
Aktiengesellschaft Körting's Electricitätswerke. (See Zipplies, Arthur, assignor.)
Aktieselskabet Sandvikens Blikvarefabrik. (See Kramer, Gustav, assignor.)
Aktieselskabet Stavanger Bliktrykkeri og Maskinvaerksted. (See Johansen, Andreas, assignor.)
Alaman, Hiram, and W. M. Lindley, Terre Haute, Ind. Sliding-door ash-pan. No. 953,573; Mar. 29; Sp. p. 6450; Gaz. vol. 152; p. 1153.
Alarm Lock Company. (See Percival, Leonard P., assignor.)
Alban, Hyman, Chicago, Ill. Baby-carriage pusher. No. 950,216; Feb. 22; Sp. p. 5178; Gaz. vol. 151; p. 909.
Albaugh-Dover Co. (See Eppley, Francis G., assignor.)
Albaugh, George W. (See Adams, Thomas W., assignor.)
Albee, Honestus M., Nutley, N. J. Machine for carving figures in relief and intaglio. No. 960,765; June 7; Sp. p. 1069; Gaz. vol. 155; p. 179.
Albenart Company. (See Richards, Arthur W., assignor.)
Albenberg, M. C. (See Olson, Charles S., assignor.)
Alberger Condenser Company. (See Alberger, Louis R., assignor.)
Alberger, Louis R., Greenwich, Conn., assignor to Alberger Condenser Company, New York, N. Y. Surface condenser. No. 957,175; May 10; Sp. p. 1449; Gaz. vol. 154; p. 259.
Alberger, Louis R., Greenwich, Conn., assignor to Alberger Condenser Company, New York, N. Y. Condenser system. No. 976,245; Nov. 22; Sp. p. 4790; Gaz. vol. 160; p. 819.
Alberger, Louis R., Greenwich, Conn., assignor to Alberger Condenser Company, New York, N. Y. Cooling-tower. No. 976,246; Nov. 22; Sp. p. 4795; Gaz. vol. 160; p. 819.
Albers, August W. (See Cloud and Albers.)
Albers, Herman. (See Higgins and Albers.)
Albers, Juergen L., *et al.* (See King, William A., assignor.)
Alberson, Ruth B., *et al.* (See Lindgren, Carl E., assignor.)
Albert, Carl A. J.., Kvillebäcksvägen, Gottenborg, Sweden. System of lubrication. No. 977,255; Nov. 29; Sp. p. 7012; Gaz. vol. 160; p. 1192.
Albert, Eugen, Munich, Germany. Producing printing-plates. No. 967,875; Aug. 23; Sp. p. 4313; Gaz. vol. 157; p. 761.
Albert, Eugen, Munich, Germany. Copying-frame. No. 978,261; Dec. 13; Sp. p. 1836; Gaz. vol. 161; p. 321.
Albert and J. M. Anderson Manufacturing Company. (See Curtis, Kenneth L., assignor.)
Albert and J. M. Anderson Manufacturing Company. (See Nelson, August P., assignor.)
Alberti, Augusto, Rome, Italy. Recovering potash salts. No. 957,295; May 10; Sp. p. 1733; Gaz. vol. 154; p. 303.
Albertoni, John A., Akron, Ohio. Coat-hanger. No. 961,572; June 14; Sp. p. 2757; Gaz. vol. 155; p. 478.
Albertoni, John A., and T. Zuppa, Akron, Ohio; said Zuppa assignor to said Albertoni. Bottle-stopper fastener. No. 978,262; Dec. 13; Sp. p. 1838; Gaz. vol. 161; p. 321.
Albertson, Otto L., Nunda, S. D. Comb-cleaner. No. 976,331; Nov. 22; Sp. p. 4973; Gaz. vol. 160; p. 847.
Albertson, Robert, F. M. and A. W. Woodward, Rockford, Ill., assignors of three-fourths to said Albertson and one-fourth to said F. M. Woodward. Exhibitor. No. 979,239; Dec. 20; Sp. p. 3973; Gaz. vol. 161; p. 684.
Albihn, Harry F. (See Wawrinsky and Albihn.)
Albrecht, Christian A. (See Muehleisen and Albrecht.)
Albrecht, Christian A., Baltimore, Md., and L. Leidenberg, Berlin, Germany. Type-setting machine for various sizes of type. No. 961,742; June 14; Sp. p. 3097; Gaz. vol. 155; p. 535.
Albrecht, Francis J., Pittsburg, Pa. Steamer. No. 966,980; Aug. 9; Sp. p. 2477; Gaz. vol. 157; p. 407.
Albrecht, Frederick W., assignor of one-half to C. H. Shields, Toledo, Ohio. Rotary-saw trimmer. No 977,256; Nov. 29; Sp. p. 7014; Gaz. vol. 160; p. 1192.
Albrecht, John, assignor to The Albrecht Manufacturing Company, Kewaunee, Wis. Tape-controlled measuring-pump. No. 968,827; Aug. 30; Sp. p. 6380; Gaz. vol. 157; p. 1113.
Albrecht Manufacturing Company, The. (See Albrecht, John, assignor.)
Albrecht, Martin, Friedberg, assignor to Felten & Guilleaume-Lahmeyer werke Actien-Gesellschaft, Frankfort-on-the-Main, Germany. Motor-car truck. No. 970,596; Sept. 20; Sp. p. 3090; Gaz. vol. 158; p. 538.
Albright, John F. (See Dow, Abraham L., assignor.)
Albright, Samuel R., Ellerslie, Md. Potato masher and beater. No. 951,670; Mar. 8; Sp. p. 2454; Gaz. vol. 152; p. 425.
Alcott, George J. (See Jordan, George H., assignor.)
Alday, Charles W. (See Kohnes, Henry W., assignor.)
Alden, Arthur B., Brockton, and L. W. Reinhardt, Whitman, assignors to C. S. Pierce, Brockton, Mass. Cutter-guard for skiving-machines. No. 959,830; May 31; Sp. p. 7359; Gaz. vol. 154; p. 1246.
Alden, Charles A., Steelton, Pa. Guard-rail clamp. No. 949,253; Feb. 15; Sp. p. 3079; Gaz. vol. 151; p. 545.
Alden, Charles A., Steelton, Pa. Dispensing and printing machine. No. 950,789; Mar. 1; Sp. p. 710; Gaz. vol. 152; p. 113.

Alphabetical list of patentees—Continued.

Alden, Charles A., Steelton, Pa. Tongue-switch. No. 969,506; Sept. 6; Sp. p. 751; Gaz. vol. 158; p. 119.

Alden, James M., assignor of one-third to D. Derden and one-third to D. J. Stobaugh, Amarillo, Tex. Water-sprinkler. No. 963,199; July 5; Sp. p. 436; Gaz. vol. 156; p. 62.

Alden Sampson Manufacturing Company. (See Breed, Preston H., assignor.)

Alden Type Machine Company. (See Johnson and Low, assignors.)

Alden, William B. (See Dodge and Alden.)

Alden, William B., assignor to Barney & Berry, Inc., Springfield, Mass. Extensible skate. No. 946,308; Jan. 11; Sp. p. 2865; Gaz. vol. 150; p. 475.

Alderfer, John M., Sharon Center, Ohio. Shipping-package. No. 960,766; June 7; Sp. p. 1072; Gaz. vol. 155; p. 180.

Alderfer, John M., Sharon Center, Ohio. Vehicle-wheel rim. No. 965,847; Aug. 2; Sp. p. 1; Gaz. vol. 157; p. 3.

Alderman, Eli M., Hickory township, Mercer county, Pa. Animal-trap. No. 975,741; Nov. 15; Sp. p. 3694; Gaz. vol. 160; p. 622.

Alderman, Magellan, Osprey, Fla. Hand-propelled motor-boat. No. 946,711; Jan. 18; Sp. p. 3789; Gaz. vol. 150; p. 634.

Alderson, G. Edwin. (See Franken, Robert, assignor.)

Aldhouse, Walter S., Manchester, England. Socket for retaining the spindles or pins at the ends of rollers. No. 953,657; Mar. 29; Sp. p. 6621; Gaz. vol. 152; p. 1181.

Aldred, Alfred E. (See Aldred, Robert J. F. and A. E.)

Aldred, Robert J. F. and A. E., Glencoe, Ontario, Canada. Dough-divider. No. 967,700; Aug. 16; Sp. p. 3950; Gaz. vol. 157; p. 678.

Aldrich, Alonzo, Beloit, Wis. Balanced steam fitting or joint for journals of rotary steam-cylinders. No. 967,294; Aug. 16; Sp. p. 3124; Gaz. vol. 157; p. 541.

Aldrich, William O., assignor to The Whitin Machine Works, Whitinsville, Mass. Thread-board. No. 953,732; Apr. 5; Sp. p. 97; Gaz. vol. 153; p. 20.

Aldridge, Harry G., assignor to The Huther Bros. Saw Mfg. Co., Rochester, N. Y. Saw. No. 964,602; July 19; Sp. p. 3442; Gaz. vol. 156; p. 588.

Aldridge, Maynard H., Plattsburg, N. Y. Cushioned vehicle-wheel. No. 971,100; Sept. 27; Sp. p. 4180; Gaz. vol. 158; p. 737.

Aldridge, Thomas J., Rochester, N. Y. Shoe-sole attachment. No. 959,442; May 31; Sp. p. 6510; Gaz. vol. 154; p. 1115.

Aldridge, Thomas J., assignor of one-half to M. A. Reilly, Rochester, N. Y. Soft-sole shoe. No. 979,240; Dec. 20; Sp. p. 3974; Gaz. vol. 161; p. 684.

Aldridge, Thomas J., and M. A. Reilly, Rochester, N. Y. Shoe-stretcher. No. 960,477; June 7; Sp. p. 472; Gaz. vol. 155; p. 79.

Aldridge, William R., *et al.* (See Davis, William J., assignor.)

Aldridge, Woodard G., Saulsbury, Tenn. Wagon and auto brake. No. 955,034; Apr. 12; Sp. p. 2916; Gaz. vol. 153; p. 494.

Alefs, Henry, Milwaukee, Wis. Fleshing, unhairing, working-out, and setting machine. No. 972,792; Oct. 18; Sp. p. 2779; Gaz. vol. 159; p. 497.

Alexander, Alfred C., Juda, Wis. Protector. No. 951,930; Mar. 15; Sp. p. 2997; Gaz. vol. 152; p. 543.

Alexander, Charles W., St. Louis, Mo. Combined stop-over certificate, ticket-holder, and receipt therefor. No. 954,242; Apr. 5; Sp. p. 1168; Gaz. vol. 153; p. 195.

Alexander Crossing Company. (See Alexander, Lewis, assignor.)

Alexander, Florence H. (See Alexander, Henri P., assignor.)

Alexander, Frederick, Brooklyn, N. Y. Pencil-sharpener. No. 959,831; May 31; Sp. p. 7361; Gaz. vol. 154; p. 1246.

Alexander, Frederick, New York, N. Y., assignor of one-half to W. F. Laskowski, Jr., West Hoboken, N. J. Escapement for type-writer carriages. No. 950,800; Mar. 1; Sp. p. 735; Gaz. vol. 152; p. 117.

Alexander, Frederick, New York, N. Y., assignor of one-half to W. F. Laskowski, Jr., West Hoboken, N. J. Type-writing machine. No. 956,020; Apr. 26; Sp. p. 5042; Gaz. vol. 153; p. 891.

Alexander, Frederick, New York, N. Y., assignor of one-half to W. F. Laskowski, Jr., West Hoboken, N. J. Type-writing machine. No. 956,257; Apr. 26; Sp. p. 5582; Gaz. vol. 153; p. 973.

Alexander, Frederick, New York, N. Y., assignor of one-half to W. F. Laskowski, Jr., West Hoboken, N. J. Tabulating device for type-writing machines. No. 959,832; May 31; Sp. p. 7362; Gaz. vol. 154; p. 1246.

Alexander, Frederick, New York, N. Y., assignor of one-half to W. F. Laskowski, Jr., West Hoboken, N. J. Ribbon-feeding mechanism for type-writing machines. No. 959,833; May 31; Sp. p. 7364; Gaz. vol. 154; p. 1247.

Alexander, Hans, Berlin, Germany, assignor to General Electric Company. Alternating-current motor. No. 953,018; Mar. 29; Sp. p. 5233; Gaz. vol. 152; p. 965.

Alexander, Hayes J. J., assignor of one-half to C. L. Berry, Youngstown, Ohio. Concrete-mixing machine. No. 970,870; Sept. 20; Sp. p. 3711; Gaz. vol. 158; p. 634.

Alexander, Henri P., assignor to F. H. Alexander, New York, N. Y. Lens. No. 954,772; Apr. 12; Sp. p. 2338; Gaz. vol. 153; p. 404.

Alexander, Herbert F., Newcastle-upon-Tyne, England. Vessel. No. 953,165; Mar. 29; Sp. p. 5562; Gaz. vol. 152; p. 1014.

Alexander, James C., Roseburg, Oreg. Tube and header connection. No. 973,610; Oct. 25; Sp. p. 4616; Gaz. vol. 159; p. 803.

Alexander, James N., Pratt City, Ala. Surgical appliance. No. 950,065; Feb. 22; Sp. p. 4866; Gaz. vol. 151; p. 856.

Alexander, Jesse, Brooklyn, assignor, by mesne assignments, of one-half to E. S. Schorcht, Buffalo, N. Y. Type-writer-carriage-feeding mechanism. No. 974,332; Nov. 1; Sp. p. 582; Gaz. vol. 160; p. 86.

Alexander, Jesse, Brooklyn, assignor, by mesne assignments, of one-half to E. S. Schorcht, Buffalo, N. Y. Type-writer line-spacing mechanism. No. 974,333; Nov. 1; Sp. p. 585; Gaz. vol. 160; p. 87.

Alexander, Jesse, Brooklyn, assignor, by mesne assignments, of one-half to E. S. Schorcht, Buffalo, N. Y. Type-writer key and type-bar mechanism. No. 974,335; Nov. 1; Sp. p. 588; Gaz. vol. 160; p. 87.

Alexander, Jesse, Brooklyn, assignor of one-half to W. A. A. Schnauffer, New York, N. Y. Type-writer-ribbon operating and feeding mechanism. No. 974,334; Nov. 1; Sp. p. 586; Gaz. vol. 160; p. 87.

Alexander, Jesse, Brooklyn, assignor of one-half to W. A. A. Schnauffer, New York, N. Y. Type-writer key and type-bar mechanism. No. 978,531; Dec. 13; Sp. p. 2403; Gaz. vol. 161; p. 414.

Alexander, Jesse J. W., Raymond, Wash. Rotary cutter-head. No. 971,812; Oct. 4; Sp. p. 628; Gaz. vol. 159; p. 110.

Alexander, John F., Columbus, Ohio. Stock feed-bucket. No. 953,773; Apr. 5; Sp. p. 180; Gaz. vol. 153; p. 33.

Alexander, John W., Spartanburg, S. C. Adding apparatus. No. 973,905; Oct. 25; Sp. p. 5236; Gaz. vol. 159; p. 907.

Alexander-Katz, Richard, Berlin, Germany. Apparatus for testing flying-machines and learning the art of aviation. No. 975,196; Nov. 8; Sp. p. 2547; Gaz. vol. 160; p. 411.

Alexander, Lewis, assignor to Alexander Crossing Company, Clinton, Ill. Railway-crossing. No. 977,153; Nov. 29; Sp. p. 6804; Gaz. vol. 160; p. 1156.

Alexander Milburn Company, The. (See Jenkins, Alexander F., assignor.)

Alexander Milburn Company, The. (See Johnson, Alexander F. J., assignor.)

Alexander, Truman. (See Myers and Alexander.)

Alexander, Walter N., assignor of one-half to K. T. Miller, Sidney, Nebr. Sealing device for electric meters. No. 958,686; May 17; Sp. p. 4924; Gaz. vol. 154; p. 808.

Alexander, William, *et al.*, executors. (See Morgan, George W.)

Alexander, William C. (See Barker, George G., assignor.)

Alexander, William W., Kansas City, Mo. Electric selector and signaling apparatus. No. 965,793; July 26; Sp. p. 6045; Gaz. vol. 156; p. 1025.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Alternating-current-motor control. No. 946,751; Jan. 18; Sp. p. 3881; Gaz. vol. 150; p. 648.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 949,345; Feb. 15; Sp. p. 3293; Gaz. vol. 151; p. 577.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Single-phase-motor control. No. 949,346; Feb. 15; Sp. p. 3295; Gaz. vol. 151; p. 577.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric locomotive. No. 949,347; Feb. 15; Sp. p. 3298; Gaz. vol. 151; p. 578.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Commutator-motor. No. 949,992; Feb. 22; Sp. p. 4703; Gaz. vol. 151; p. 831.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Single-phase commutator-motor. No. 951,357; Mar. 8; Sp. p. 1818; Gaz. vol. 152; p. 319.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Single-phase commutator-motor. No. 953,366; Mar. 29; Sp. p. 6006; Gaz. vol. 152; p. 1080.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Overload protective device. No. 954,845; Apr. 12; Sp. p. 2520; Gaz. vol. 153; p. 429.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 957,454; May 10; Sp. p. 2055; Gaz. vol. 154; p. 356.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Braking alternating-current motors. No. 967,295; Aug. 16; Sp. p. 3126; Gaz. vol. 157; p. 541.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric braking. No. 967,296; Aug. 16; Sp. p. 3131; Gaz. vol. 157; p. 542.

Alphabetical list of patentees—Continued.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric braking. No. 974,224; Nov. 1; Sp. p. 266; Gaz. vol. 160; p. 45.
Alfano, Leonard, Brooklyn, N. Y. Apparatus for honing razors. No. 962,935; June 28; Sp. p. 5658; Gaz. vol. 155; p. 991.
Alford, Benjamin F. (See Sheppard, Frank K., assignor.)
Alford, Frank R., assignor to The Wm. L. Gilbert Clock Company, Winsted, Conn. Watch. No. 945,667; Jan. 4; Sp. p. 1413; Gaz. vol. 150; p. 221.
Alford, Frank R., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Forming clock-ratchets. No. 945,668; Jan. 4; Sp. p. 1414; Gaz. vol. 150; p. 221.
Alford, John H. (See Boyler, Emanuel J., assignor.)
Alfred, Isaac T., Blackfoot, Idaho. Harvester cutter-bar. No. 952,779; Mar. 22; Sp. p. 4757; Gaz. vol. 152; p. 857.
Alger, Franklin A., Grand Rapids, Mich. Fish-bait. No. 956,872; May 3; Sp. p. 809; Gaz. vol. 154; p. 129.
Algie, Benjamin C., Ogdensburg, N. Y. Twine-holder. No. 966,981; Aug. 9; Sp. p. 2478; Gaz. vol. 157; p. 407.
Alig, George, Indianapolis, Ind. Heating-stove. No. 963,512; Aug. 9; Sp. p. 1465; Gaz. vol. 157; p. 251.
Alinder, Henry, Milwaukee, Wis. Power-hammer. No. 966,412; Aug. 9; Sp. p. 1182; Gaz. vol. 157; p. 215.
Alison, Rufus B., and W. G. Elliott, Vallejo, Cal. Acetylene-gas generator. No. 951,097; Mar. 8; Sp. p. 1291; Gaz. vol. 152; p. 237.
Alkire, William A., Linton, Ind. Keg-spout. No. 966,413; Aug. 9; Sp. p. 1183; Gaz. vol. 157; p. 215.
All, Henry, and B. M. Buckland, Sultana, Cal. Railway-tie spacer. No. 949,207; Feb. 15; Sp. p. 2988; Gaz. vol. 151; p. 530.
Allabough, Joseph L., Lakewood, assignor to The Shanafelt Manufacturing Company, Canton, Ohio. Toy roundabout. No. 975,311; Nov. 8; Sp. p. 2785; Gaz. vol. 160; p. 450.
Allan, Hugh A. (See Gilman, Frederick J., assignor.)
Allan, James, Omaha, Nebr., assignor to Larsen-Baker Ice Machine Co. Liquid-cooler. No. 956,788; May 3; Sp. p. 612; Gaz. vol. 154; p. 98.
Allan, James, Omaha, Nebr., assignor to Larsen-Baker Ice Machine Co. Discharge-valve for elastic-fluid compressors. No. 956,789; May 3; Sp. p. 613; Gaz. vol. 154; p. 99.
Allard, David R., Arleta, Oreg. Air-compressor. No. 960,478; June 7; Sp. p. 473; Gaz. vol. 155; p. 80.
Allbee, Elmer E., Arlington, N. J., assignor to Safety Car Heating & Lighting Company. Valve for train-pipes. No. 964,081; July 12; Sp. p. 2323; Gaz. vol. 156; p. 382.
Allbee, John B., Rolfe, assignor of one-half to J. S. Smith, Plover, Iowa. Covering attachment for planters and disks. No. 979,817; Dec. 27; Sp. p. 5203; Gaz. vol. 161; p. 902.
Allbright-Nell Company. (See Hannaford, Alfred, assignor.)
Allbright-Nell Company, The. (See Kohlhepp, John W., assignor.)
Allbright, Thomas E., *et al.* (See Batchelor, Henry, assignor.)
Allbright, William B., Chicago, Ill. Cooling apparatus. No. 960,614; June 7; Sp. p. 763; Gaz. vol. 155; p. 126.
Allegheny Cornice and Skylight Company, The. (See McClaskey, Franklin J., assignor.)
Allemann, John. (See Kohler, Ernest, assignor.)
Allen, Adolphus M., assignor to Allen Alfalfa Mill Company, Minneapolis, Minn. Machine for comminuting alfalfa and like materials. No. 969,739; Sept. 6; Sp. p. 1257; Gaz. vol. 158; p. 202.
Allen, Albert H., Wakefield, Mass. Bottle-holder. No. 956,749; May 3; Sp. p. 528; Gaz. vol. 154; p. 86.
Allen, Albert M., Cleveland, Ohio. Regulating-valve. No. 958,206; May 17; Sp. p. 3821; Gaz. vol. 154; p. 646.
Allen, Alexander, Pawtucket, R. I. Roller-towel cabinet. No. 945,669; Jan. 4; Sp. p. 1415; Gaz. vol. 150; p. 221.
Allen Alfalfa Mill Company. (See Allen, Adolphus M., assignor.)
Allen, Anna M., Yuba City, Cal. Skirt-measuring device. No. 970,006; Sept. 13; Sp. p. 1870; Gaz. vol. 158; p. 318.
Allen, Benjamin T., assignor to Harrisburg Foundry & Machine Works, Harrisburg, Pa. Valve mechanism for Corliss engines. No. 964,194; July 12; Sp. p. 2539; Gaz. vol. 156; p. 418.
Allen, Charles, El Paso, Tex. Slime separator and classifier. No. 949,560; Feb. 15; Sp. p. 3732; Gaz. vol. 151; p. 649.
Allen, Charles E., assignor of one-half to T. R. Duncan, Konawa, Okla. Plow-shovel. No. 966,411; Aug. 9; Sp. p. 1181; Gaz. vol. 157; p. 215.
Allen, Ebben S., New Haven, Conn. Electrically-controlled gas igniting and extinguishing device. No. 958,574; May 17; Sp. p. 4707; Gaz. vol. 154; p. 773.
Allen, Edgar H., Norwich, Conn. Linear meter. No. 967,297; Aug. 16; Sp. p. 3136; Gaz. vol. 157; p. 542.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 945,148; Jan. 4; Sp. p. 278; Gaz. vol. 150; p. 49.
Allen, Edward B., and J. C. Ringe, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 946,651; Jan. 18; Sp. p. 3662; Gaz. vol. 150; p. 614.
Allen, Edward G., Coatesville, Pa. Shoe-stretcher. No. 955,449; Apr. 19; Sp p. 3782; Gaz. vol. 153; p. 664.
Allen, Egbert E., Atlanta, Ga. Automobile-lamp. No. 955,493; Apr. 19; Sp. p. 3878; Gaz. vol. 153; p. 681.
Allen, Ernest, Los Angeles, Cal. Repeating burglar-alarm. No. 971,813; Oct. 4; Sp. p. 630; Gaz. vol. 159; p. 110.
Allen, Everett P., assignor to Norwall Manufacturing Company, Chicago, Ill. Valve. No. 945,433; Jan. 4; Sp. p. 923; Gaz. vol. 150; p. 144.
Allen, Everett P., assignor to Norwall Manufacturing Company, Chicago, Ill. Valve. No. 957,592; May 10; Sp. p. 2315; Gaz. vol. 154; p. 402.
Allen, Everett P., assignor to Norwall Manufacturing Company, Chicago, Ill. Radiator-valve. No. 957,593; May 10; Sp. p. 2317; Gaz. vol. 154; p. 403.
Allen, Florence M., Chicago, Ill. Sterilizing and muffling shield for telephones. No. 954,909; Apr. 12; Sp. p. 2672; Gaz. vol. 153; p. 452.
Allen, Francis M., Berne, Ind. Waxing apparatus for sewing-machines. No. 949,515; Feb. 15; Sp. p. 3638; Gaz. vol. 151; p. 633.
Allen, Frank B. (See Hoffman, William M., assignor.)
Allen, Frank B., Salt Lake City, Utah. Clutch-shifting mechanism. No. 952,664; Mar. 22; Sp. p. 4495; Gaz. vol. 152; p. 818.
Allen, Frank B., Salt Lake City, Utah. Transmission-gear. No. 972,143; Oct. 11; Sp. p. 1361; Gaz. vol. 159; p. 249
Allen, Frank B., Salt Lake City, Utah. Transmission-gear. No. 972,144; Oct. 11; Sp. p. 1364; Gaz. vol. 159; p. 249.
Allen, Frank H., Donaldsonville, La. Inkstand. No. 947,091; Jan. 18; Sp. p. 4619; Gaz. vol. 150; p. 763.
Allen, Frank L., Upper Alton, Ill. Steam-joint for rotary cylinders. No. 967,298; Aug. 16; Sp. p. 3137; Gaz. vol. 157; p. 543.
Allen, Frank X., *et al.* (See Young, Henry E., assignor.)
Allen, George L., Mangum, Okla. Filter. No. 952,972; Mar. 22; Sp. p. 5130; Gaz. vol. 152; p. 921.
Allen, Glenn, San Francisco, Cal. Reinforced concrete. No. 966,291; Aug. 2; Sp. p. 947; Gaz. vol. 157; p. 150.
Allen, Hall & Co. (See Allen, Walter B., assignor.)
Allen, Harding, Barre, Mass. Driving mechanism for drill-spindles. No. 962,690; June 28; Sp. p. 5183; Gaz. vol. 155; p. 905.
Allen, James B., Detroit, Mich. Linotype-machine. No. 956,790; May 3; Sp. p. 615; Gaz. vol. 154; p. 99.
Allen, James F., *et al.* (See Stewart, McElmer, assignor.)
Allen, James M., assignor to M. Fellhauer, St. Louis, Mo. Centrifugal casting-machine. No. 971,957; Oct. 4; Sp. p. 998; Gaz. vol. 159; p. 166.
Allen, James M., St. Louis, Mo., assignor of one-half to C. F. Schneider, Alton, Ill., and one-eighth to D. F. Dirks, St. Louis, Mo. Safe. No. 960,767; June 7; Sp. p. 1074; Gaz. vol. 155; p. 180.
Allen, James W. (See Graves and Allen.)
Allen, Jasper M., assignor of one-half to P. P. McDermott, St. Jo, Tex. Can-opener. No. 960,060; May 31; Sp. p. 7905; Gaz. vol. 154; p. 1327.
Allen, John A., Painted Post, N. Y. Pruning implement. No. 978,102; Dec. 6; Sp. p. 1462; Gaz. vol. 161; p. 236.
Allen, John E., Vancouver, British Columbia, Canada. Life-boat. No. 960,479; June 7; Sp. p. 474; Gaz. vol. 155; p. 80.
Allen, John G., Peoria, Ill. Window-tent. No. 956,258; Apr. 26; Sp. p. 5583; Gaz. vol. 153; p. 973.
Allen, John G., Peoria, Ill. Window-tent. No. 977,154; Nov. 29; Sp. p. 6805; Gaz. vol. 160; p. 1156.
Allen, John H., *et al.* (See Patterson, Franklin M., assignor.)
Allen, John H., Moore Park, Manitoba, Canada. Toy. No. 975,197; Nov. 8; Sp. p. 2548; Gaz. vol. 160; p. 411.
Allen, Joseph E., Chicago, Ill. Lamp. No. 968,632; Aug. 30; Sp. p. 5949; Gaz. vol. 157; p. 1048.
Allen, Joseph E., Chicago, Ill. Lamp. No. 977,358; Nov. 29; Sp. p. 7231; Gaz. vol. 160; p. 1227.
Allen, Joseph H., Chicago, Ill., assignor, by mesne assignments, to General Electric Company. Indicator for arc-lamps. No. 967,151; Aug. 16; Sp. p. 2849; Gaz. vol. 157; p. 493.
Allen, Lilla, Allentown, Ga. Refrigerator. No. 974,734; Nov. 1; Sp. p. 1480; Gaz. vol. 160; p. 228.
Allen, Luther H., Gravette, Ark. Motor-cycle. No. 962,289; June 21; Sp. p. 4303; Gaz. vol. 155; p. 743.
Allen, Lyman L., Tuckerton, N. J. Scaling or climbing device. No. 952,720; Mar. 22; Sp. p. 4618; Gaz. vol. 152; p. 837.
Allen, Orville E., Hornell, N. Y. Coin-purse. No. 963,494; July 5; Sp. p. 1063; Gaz. vol. 156; p. 162.
Allen, Orville E., Hornell, N. Y. Steam-cooker. No. 970,289; Sept. 13; Sp. p. 2455; Gaz. vol. 158; p. 414.
Allen, Robert, Caversham, England. Piston and piston-valve. No. 965,355; July 26; Sp. p. 5092; Gaz. vol. 156; p. 874.
Allen, Robert L., assignor to Archbold-Brady Company, Syracuse, N. Y. Bridge for supporting trolley-wires by means of the catenary system. No. 974,225; Nov. 1; Sp. p. 268; Gaz. vol. 160; p. 45.

Alphabetical list of patentees—Continued.

Allen, Sam, Okmulgee, Okla. Concrete-block-making machinery. No. 975,104; Nov. 8; Sp. p. 2318; Gaz. vol. 160; p. 379.

Allen, Samuel L., Moorestown, N. J. Cultivator and cultivator-teeth. No. 965,848; Aug. 2; Sp. p. 3; Gaz. vol. 157; p. 3.

Allen, Sherman T., Detroit, Mich. Vehicle-top-bow holder. No. 962,487; June 28; Sp. p. 4749; Gaz. vol. 155; p. 836.

Allen, Theodore P., Humphreys, Mo. Receipt-file. No. 945,434; Jan. 4; Sp. p. 924; Gaz. vol. 150; p. 144.

Allen, Thomas J., Jr., *et al.* (See Bulloch, Alva B., assignor.)

Allen, W. H., *et al.* (See Johnson, Thomas E., assignor.)

Allen, Walker B. (See Keil and Allen.)

Allen, Walter B., Worcester, assignor to Allen, Hall & Co., Reading, Mass. Medium for oil-color. No. 960,141; May 31; Sp. p. 8051; Gaz. vol. 154; p. 1353.

Allen, Walter E., Hooper, assignor of one-half to C. C. Donlin, Monte Vista, Colo. Window-cleaning device. No. 951,431; Mar. 8; Sp. p. 1972; Gaz. vol. 152; p. 343.

Allen, William D. (See Wheeler and Allen.)

Allen, William G., assignor of one-half to I. Dimock, West Hartford, Conn. Manufacture of screws. No. 960,244; June 7; Sp. p. 2; Gaz. vol. 155; p. 3.

Allen, William H., Jr., Grosse Ile, Mich., assignor to Semet-Solvay Company, Syracuse, N. Y. Construction of gas-discharging devices for retort coke-ovens. No. 947,522; Jan. 25; Sp. p. 5633; Gaz. vol. 150; p. 936.

Allend, Joseph, Philadelphia, Pa. Vehicle-tire. No. 959,041; May 24; Sp. p. 5699; Gaz. vol. 154; p. 957.

Allenou, Charles M. V. (See Pichon and Allenou.)

Allenson, John, St. Paul, Minn., assignor to St. Paul Foundry Company. Molding-machine. No. 955,838; Apr. 19; Sp. p. 4631; Gaz. vol. 153; p. 799.

Alles, August E., Charleroi, Pa. Eye-shade. No. 950,255; Feb. 22; Sp. p. 5262; Gaz. vol. 151; p. 923.

Alles, Henry, Joseph, Idaho. Current-motor. No. 974,735; Nov. 1; Sp. p. 1481; Gaz. vol. 160; p. 228.

Alley, Frederick L., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pressure-roll for skiving-machines. No. 948,031; Feb. 1; Sp. p. 527; Gaz. vol. 151; p. 85.

Alley, Frederick L., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Skiving-machine. No. 948,032; Feb. 1; Sp. p. 529; Gaz. vol. 151; p. 85.

Alley, Frederick L., San Francisco, Cal., assignor to United Shoe Machinery Company, Paterson, N. J. Heel. No. 979,241; Dec. 20; Sp. p. 3975; Gaz. vol. 161; p. 685.

Alley, John J., Bristol City, Va. Coke-oven door. No. 950,422; Feb. 22; Sp. p. 5570; Gaz. vol. 151; p. 977.

Alley, Stephen, Westminster, London, England. Tire-tool. No. 949,561; Feb. 15; Sp. p. 3739; Gaz. vol. 151; p. 650.

Alley, William S., Ingalls, Kans. Header-barge. No. 957,483; May 10; Sp. p. 2107; Gaz. vol. 154; p. 366.

Allfree, Edwin H., and W. H. England, Chicago, Ill. Adjustable step and platform. No. 953,733; Apr. 5; Sp. p. 98; Gaz. vol. 153; p. 20.

Allfree, James B., Chicago, Ill. Valve for engines. No. 960,615; June 7; Sp. p. 773; Gaz. vol. 155; p. 126.

Allfree, James B., Chicago, Ill. Valve for engines. No. 960,616; June 7; Sp. p. 777; Gaz. vol. 155; p. 127.

Allhoff, Charles G. (See Trimbach and Allhoff.)

Alliance Machine Company, The. (See Kendall, David, assignor.)

Allin, William J., Clarendon, Ark. Hoe. No. 961,748; June 21; Sp. p. 3113; Gaz. vol. 155; p. 561.

Alling, James H., San Francisco, Cal. Recovering fine gold. No. 947,957; Feb. 1; Sp. p. 373; Gaz. vol. 151; p. 60.

Alling, James H., San Francisco, Cal. Apparatus for recovering fine gold. No. 947,958; Feb. 1; Sp. p. 375; Gaz. vol. 151; p. 61.

Allinger, Albert A., New York, assignor to C. J. Tagliabue, Brooklyn, N. Y. Hypodermic syringe. No. 964,950; July 19; Sp. p. 4241; Gaz. vol. 156; p. 709.

Allingham, James, Chicago, Ill. Waste-plug mechanism for lavatories and the like. No. 948,033; Feb. 1; Sp. p. 532; Gaz. vol. 151; p. 85.

Allingham, James, Chicago, Ill. Valve mechanism for lavatory apparatus. No. 955,740; Apr. 19; Sp. p. 4432; Gaz. vol. 153; p. 765.

Allis-Chalmers Company. (See Adams, Edward T., assignor.)

Allis-Chalmers Company. (See Allison, Daniel K., assignor.)

Allis-Chalmers Company. (See Barker, William M., assignor.)

Allis-Chalmers Company. (See Bassett, Norman C., assignor.)

Allis-Chalmers Company *et al.* (See Behrend, Bernard A., assignor.)

Allis-Chalmers Company. (See Blanding, Forrest H., assignor.)

Allis-Chalmers Company. (See Bradley, Raymond R., assignor.)

Allis-Chalmers Company *et al.* (See Brown, Arthur J., assignor.)

Allis-Chalmers Company. (See Capen, Thomas W., assignor.)

Allis-Chalmers Company. (See Cheney, Herbert W., assignor.)

Allis-Chalmers Company *et al.* (See Cheney, Herbert W., assignor.)

Allis-Chalmers Company. (See De Wein, George F., assignor.)

Allis-Chalmers Company. (See Forrest, James, assignor.)

Allis-Chalmers Company. (See Gray, Alexander M., assignor.)

Allis-Chalmers Company. (See Hancock, Henry R., assignor.)

Allis-Chalmers Company. (See Haskins, Bradley, assignor.)

Allis-Chalmers Company. (See Hirt, Fritz E., assignor.)

Allis-Chalmers Company. (See Jeffrey, Fraser, assignor.)

Allis-Chalmers Company *et al.* (See Kwis, Arthur F., assignor.)

Allis-Chalmers Company. (See Lieber, William H., assignor.)

Allis-Chalmers Company. (See Lord, Charles E., assignor.)

Allis-Chalmers Company *et al.* (See Mattman, Emil, assignor.)

Allis-Chalmers Company. (See McKee, Robert A., assignor.)

Allis-Chalmers Company. (See Osmer, John E., assignor.)

Allis-Chalmers Company. (See Patitz, Johann F. M., assignor.)

Allis-Chalmers Company. (See Pfau, Arnold, assignor.)

Allis-Chalmers Company *et al.* (See Pomeroy, William D., assignor.)

Allis-Chalmers Company *et al.* (See Powell, William H., assignor.)

Allis-Chalmers Company. (See Rotter, Max, assignor.)

Allis-Chalmers Company. (See Schlatter, Rudolph, assignor.)

Allis-Chalmers Company. (See Search, Charles E., assignor.)

Allis-Chalmers Company. (See Sicka, Louis T., assignor.)

Allis-Chalmers Company. (See Sprado, Carl G., assignor.)

Allis-Chalmers Company. (See Stull, Emmett W., assignor.)

Allis-Chalmers Company. (See Tomlinson, Royal D., assignor.)

Allis-Chalmers Company. (See Trout, William H., assignor.)

Allis-Chalmers Company *et al.* (See Van Valkenburg, Hermon L., assignor.)

Allis-Chalmers Company. (See Wilkinson, Nathan, assignor.)

Allis-Chalmers Company. (See Williamson, Robert B., assignor.)

Allis-Chalmers Company *et al.* (See Williamson, Robert B., assignor.)

Allis-Chalmers Company *et al.* (See Wouters, Alfred H., assignor.)

Allis-Chalmers Company *et al.* (See Wright, Edwin C., assignor.)

Allison, Benjamin E., Kansas City, Mo. Rate and quotation sheet. No. 967,701; Aug. 16; Sp. p. 3955; Gaz. vol. 157; p. 679.

Allison, Daniel K., assignor to Allis-Chalmers Company, Milwaukee, Wis. Vanner. No. 945,300; Jan. 4; Sp. p. 641; Gaz. vol. 150; p. 100.

Allison, Daniel K., Norwood, assignor to The J. H. Day Company, Cincinnati, Ohio. Machine for making pies. No. 946,092; Jan. 11; Sp. p. 2389; Gaz. vol. 150; p. 398.

Allison, Elwood C., New York, N. Y. Engine-starter. No. 973,738; Oct. 25; Sp. p. 4883; Gaz. vol. 159; p. 848.

Allison, Fred F., Toronto, Ontario, Canada. Display-form. No. 967,482; Aug. 16; Sp. p. 3530; Gaz. vol. 157; p. 606.

Allison, George E., Stonington, Conn. Car-door lock. No. 968,727; Aug. 30; Sp. p. 6187; Gaz. vol. 157; p. 1081.

Allison, George R., Indianola, Iowa. Guard for disk harrows. No. 971,874; Oct. 4; Sp. p. 774; Gaz. vol. 159; p. 134.

Allison, James E., St. Louis, Mo., assignor to H. V. Bright, Cleveland, Ohio. Registering device for turnstiles. No. 954,846; Apr. 12; Sp. p. 2523; Gaz. vol. 153; p. 430.

Allison, Joseph W., Ennis, Tex. Weighing-machine. No. 967,299; Aug. 16; Sp. p. 3139; Gaz. vol. 157; p. 543.

Allison, Lyman J., Chicago, Ill. Handle. No. 968,440; Aug. 23; Sp. p. 5532; Gaz. vol. 157; p. 954.

Allison, Peter H., Torrington, Conn. Mold. No. 954,368; Apr. 5; Sp. p. 1424; Gaz. vol. 153; p. 237.

Allison, Robert W., Superior, Pa. Hay-cocker. No. 946,480; Jan. 11; Sp. p. 3314; Gaz. vol. 150; p. 533.

Allison, William C., Moose Jaw, Saskatchewan, Canada. Means for automatically adjusting locomotive exhaust-nozzles. No. 971,339; Sept. 27; Sp. p. 4661; Gaz. vol. 158; p. 815.

Allison, William D. (See Leonard, Charles N., assignor.)

Allith Manufacturing Company Limited. (See Anderson, John W., assignor.)

Allmon, Peter M., Parker, Ind. Internal-combustion engine. No. 976,770; Nov. 22; Sp. p. 5915; Gaz. vol. 160; p. 998.

Alphabetical list of patentees—Continued.

Allner, Frederick, and E. N. Boswell, Montreal, Quebec, Canada. Planer attachment. No. 960,480; June 7; Sp. p. 475; Gaz. vol. 155; p. 80.
Allom, Gilbert F., London, England. Electric-light reflector. No. 961,196; June 14; Sp. p. 1937; Gaz. vol. 155; p. 350.
Allred, Charles E., Oakland, Cal. Mortar-feeding device. No. 972,793; Oct. 18; Sp. p. 2784; Gaz. vol. 159; p. 497.
Allsbrooks, William J., San Antonio, Tex., assignor of one-half to L. E. Miller, Sylvia, Tenn. Metallic railway-tie. No. 953,984; Apr. 5; Sp. p. 596; Gaz. vol. 153; p. 107.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Belt-shifter. No. 948,622; Feb. 8; Sp. p. 1790; Gaz. vol. 151; p. 307.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Combined belt-shifter and gear-stop. No. 948,948; Feb. 8; Sp. p. 2450; Gaz. vol. 151; p. 417.
Allsop, Thomas, W. W. Sibson, and W. F. Hagar, Jr., assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Singeing-machine. No. 971,427; Sept. 27; Sp. p. 4817; Gaz. vol. 158; p. 843.
Allsopp, George A., Brockton, Mass. Culinary utensil. No. 961,474; June 14; Sp. p. 2541; Gaz. vol. 155; p. 445.
Allyn, Louis E., Pekin, Ill. Tank-car. No. 971,102; Sept. 27; Sp. p. 4183; Gaz. vol. 158; p. 738.
Allyn, Robert S., New York, N. Y. Concrete reinforcement. No. 962,488; June 28; Sp. p. 4750; Gaz. vol. 155; p. 837.
Allyn, William B., Whitesboro, N. Y. Variable-speed apparatus. No. 975,198; Nov. 8; Sp. p. 2549; Gaz. vol. 160; p. 411.
Alma Manufacturing Company. (See Brewington, Henry S., assignor.)
Alma Manufacturing Company. (See McVicker, Walter J., assignor.) (Reissue.)
Alma Manufacturing Company of Baltimore City. (See Wheeler, John A., Jr., assignor.)
Almack, John C., *et al.* (See Gardner, Elijah, assignor.)
Almas, Charles, Toronto, Ontario, Canada. Multiple-fuse cut-out. No. 966,783; Aug. 9; Sp. p. 2062; Gaz. vol. 157; p. 343.
Almgren, Anna L., Chicago, Ill. Crib attachment. No. 949,389; Feb. 15; Sp. p. 3396; Gaz. vol. 151; p. 593.
Almirall, Juan A., assignor to Evans, Almirall & Co., New York, N. Y. Heating apparatus. No. 971,165; Sept. 27; Sp. p. 4309; Gaz. vol. 158; p. 758.
Alpenfels, Julius H., Denver, Colo., and H. A. Williams, Deadwood, S. D. Automatic car-lock for mine-cages. No. 964,733; July 19; Sp. p. 3808; Gaz. vol. 156; p. 633.
Alperin, Bernard A., New York, assignor to L. B. Gleason, Delhi, N. Y. Auto-tire container. No. 966,414; Aug. 9; Sp. p. 1185; Gaz. vol. 157; p. 216.
Alperin, Bernard A., New York, assignor to L. B. Gleason, Delhi, N. Y. Case for tire parts. No. 966,415; Aug. 9; Sp. p. 1186; Gaz. vol. 157; p. 216.
Alpha Jewelry Company, The. (See Swartz, Fred M., assignor.)
Alphin, Gilbert E., Mount Olive, N. C. Lamp-chimney holder. No. 956,663; May 3; Sp. p. 336; Gaz. vol. 154; p. 56.
Already Box Company. (See Walter, Harrison B., assignor.)
Alsop, Charles F., Ampere, N. J. Advertising-card. No. 969,831; Sept. 13; Sp. p. 1496; Gaz. vol. 158; p. 258.
Alsted, Edward P., Truesdell, Wis. Attrition-mill. No. 962,807; June 28; Sp. p. 5426; Gaz. vol. 155; p. 947.
Alston, Frank H., assignor of one-half to B. Brooks, Birmingham, England. Electric ignition apparatus for internal-combustion engines. No. 979,912; Dec. 27; Sp. p. 5405; Gaz. vol. 161; p. 934.
Alston, Nicholas F., Inez, N. C. Guard for whip-labels. No. 959,686; May 31; Sp. p. 7047; Gaz. vol. 154; p. 1197.
Alsup, G. M., *et al.* (See Mouzon, Henry D., assignor.)
Alt, Arnold D., St. Louis, Mo. Apparatus for washing photographic prints. No. 974,336; Nov. 1; Sp. p. 590; Gaz. vol. 160; p. 88.
Alt, Philip A., Marion, Ind. Lock-nut. No. 954,010; Apr. 5; Sp. p. 646; Gaz. vol. 153; p. 116.
Altenburgh, Wilford G., National City, Cal. Automatic cut-off and stop for sound-reproducing machines. No. 972,794; Oct. 18; Sp. p. 2786; Gaz. vol. 159; p. 498.
Alter, Christian, New York, N. Y. Eyeglasses. No. 962,873; June 28; Sp. p. 5555; Gaz. vol. 155; p. 971.
Altermatt, John F., Chicago, Ill. Garment-hanger. No. 959,687; May 31; Sp. p. 7048; Gaz. vol. 154; p. 1197.
Altermatt, John F., Chicago, Ill. Garment-hanger. No. 959,688; May 31; Sp. p. 7049; Gaz. vol. 154; p. 1197.
Altham, George J., Fall River, Mass. Internal-combustion engine. No. 962,110; June 21; Sp. p. 3916; Gaz. vol. 155; p. 683.
Altheide, August F., Mount Carmel, Ill. Splicing device. No. 961,201; June 14; Sp. p. 1945; Gaz. vol. 155; p. 352.
Althen, W. C. (See Horn, Frank, assignor.)
Alther, Henry J., Boston, assignor of one-half to G. W. Gill, Medford, Mass. Electric annunciating apparatus. No. 976,836; Nov. 29; Sp. p. 6053; Gaz. vol. 160; p. 1045.
Altick, James W., and W. T. Wuichet, Dayton, Ohio. Reducing garbage. No. 965,271; July 26; Sp. p. 4894; Gaz. vol. 156; p. 845.
Altman, Curtiss M. (See Altman, William A. and C. M.)
Altman, Moïse, Bagnolet, France. Apparatus for making seamless tubes. No. 961,394; June 14; Sp. p. 2366; Gaz. vol. 155; p. 418.
Altman, Philip, and S. Feld, New York, N. Y. Hook and eye. No. 951,098; Mar. 8; Sp. p. 1293; Gaz. vol. 152; p. 237.
Altman, William A. and C. M., Findlay, Ohio. Tube-cutter. No. 969,507; Sept. 6; Sp. p. 754; Gaz. vol. 158; p. 119.
Altmann, Frank C., assignor to The English & Mersick Co., New Haven, Conn. Latch. No. 970,007; Sept. 13; Sp. p. 1872; Gaz. vol. 158; p. 319.
Altmyer, John W., Central City, Iowa. Metallic fence-post. No. 946,093; Jan. 11; Sp. p. 2391; Gaz. vol. 150; p. 398.
Alton, Daniel, Strathcona, Alberta, Canada. Water-pipe. No. 978,349; Dec. 13; Sp. p. 2020; Gaz. vol. 161; p. 352.
Altonaer Margarine Werke Mohr & Co. Gesellschaft mit beschränkter Haftung. (See Schröder, Wilhelm G., assignor.)
Altorfer, Alpheus W., Roanoke, Ill. Brooding-coop. No. 948,716; Feb. 8; Sp. p. 1986; Gaz. vol. 151; p. 340.
Altpeter, Francis W., Chicago, Ill. Draftsman's rule. No. 963,737; July 12; Sp. p. 1579; Gaz. vol. 156; p. 265.
Altrichter, Johann, Judenburg, assignor to A. Schiel and F. Schwank, Vienna, Austria-Hungary. Means for opening and closing carriage-windows. No. 948,603; Feb. 8; Sp. p. 1743; Gaz. vol. 151; p. 301.
Aluminiumwarenfabrik Gontenschwil Aktiengesellschaft. (See Gautschi, Alfred, assignor.)
Alvergnat, Georges P. O., Paris, France, assignor to Societe de la Pompe Vadam, Neuilly-sur-Seine, France. Air-compressor. No. 973,739; Oct. 25; Sp. p. 4885; Gaz. vol. 159; p. 849.
Alverson, Lewis, Fort Worth, Tex. Walking-cane. No. 947,984; Feb. 1; Sp. p. 430; Gaz. vol. 151; p. 68.
Alvord, Clinton, Worcester, Mass. Weaving tubular fabrics. No. 966,416; Aug. 9; Sp. p. 1187; Gaz. vol. 157; p. 216.
Alvord, Edson L., Weskan, Kans. Calf or colt weaner. No. 962,290; June 21; Sp. p. 4305; Gaz. vol. 155; p. 744.
Alwies, Herman, St. Louis, Mo. Street or station indicator. No. 964,835; July 19; Sp. p. 4015; Gaz. vol. 156; p. 668.
Amberg File & Index Co. (See Conrad, Henry G., assignor.)
Amberg File & Index Co. (See Patterson, Walter D., assignor.)
Amberg File and Index Company. (See Amberg, Theodore J., assignor.)
Amberg, Theodore J., assignor to Amberg File and Index Company, Chicago, Ill. Guide-card for vertical-filing systems. No. 963,350; July 5; Sp. p. 776; Gaz. vol. 156; p. 114.
Amberson, William S., Waynesboro, Pa. Stand for garbage-cans, &c. No. 962,874; June 28; Sp. p. 5556; Gaz. vol. 155; p. 972.
Amble, Ben A., Grand Forks, N. D. Threshing-machine. No. 949,049; Feb. 15; Sp. p. 2683; Gaz. vol. 151; p. 478.
Ambler, George A., Newark, N. J., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for inserting slugs or fastenings in stock. No. 976,837; Nov. 29; Sp. p. 6058; Gaz. vol. 160; p. 1045.
Amborn, George, New York, assignor to J. H. Williams & Co., Brooklyn, N. Y. Chain pipe-wrench. No. 952,860; Mar. 22; Sp. p. 4913; Gaz. vol. 152; p. 884.
Amborn, George, New York, assignor to J. H. Williams & Co., Brooklyn, N. Y. Spanner-wrench. No. 956,259; Apr. 26; Sp. p. 5586; Gaz. vol. 153; p. 974.
Ambrette, Conrad. (See Cevasco, Cavagnaro, and Ambrette.)
Ambrose, Davis, Louisville, Ky. Splice attachment. No. 975,199; Nov. 8; Sp. p. 2552; Gaz. vol. 160; p. 412.
Ambrose, Harry T. (See Donning, George W., assignor.) (Reissue.)
Ambrose, Harry T. (See Walter, Edward C., assignor.)
Ambruster, Cornelius, and H. M. Beck, Chicago, Ill. Damper-regulator. No. 954,493; Apr. 12; Sp. p. 1709; Gaz. vol. 153; p. 307.
Ameis, Jean. (See Heergeist, Albert, assignor.)
Amenda, William, Oklahoma, Okla. Counter for foods and beverages. No. 974,622; Nov. 1; Sp. p. 1246; Gaz. vol. 160; p. 191.
American Aerial Commercial Company. (See Hall, William A., assignor.)
American Agricultural Chemical Company, The. (See Snyder, William L., assignor.)
American Air Cleaning Company. (See Matchette, Gordon, and Moukos, assignors.)
American Air Liquefying Co. (See Place, James F., assignor.)
American Aron Electricity Meter Company, The. (See Aron, Hermann, assignor.)
American Asphalt Paving Company, The. (See Schwendeman, Eugene G., assignor.)
American Attachment Company. (See Stevens, George J., assignor.)

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American Automatic Machinery Company, The. (See Heybach, Frederick J., assignor.)
American Automatic Railway Switch Co. (See Farmer, Matthew S., assignor.)
American Automatic Railway Switch Company. (See Shemwell, Harold, assignor.)
American Automatic Shoe Polishing Machine Co., The. (See Oliver and Ohlgart, assignors.)
American Automatic Switch Company. (See Collins, Roy V., assignor.)
American Automatic Telephone Company, The. (See Bruce, William M., Jr., assignor.)
American Automatic Telephone Company. (See Dunham, Bert G., assignor.)
American Bakers' Machinery Company. (See Streich, Frank, assignor.)
American Bank Note Company. (See Reinhardt, James H., assignor.)
American Bank Note Company. (See Sanguinette, Septimus S., assignor.)
American Bar Lock Company. (See Davis, Anthony E., assignor.)
American Bed Company. (See Braznell, John J., assignor.)
American Bent Wood Chair Company. (See Bason, Henry W., assignor.)
American Bioscope Company. (See Klaiber, Maximilian, assignor.)
American Blower Company. (See Fraser, Arthur C., assignor.)
American Box Ball Company, The. (See Talbert, Shaw, Holcomb, and Hoke, assignors.)
American Brake Shoe & Foundry Company. (See Nichols, Wesley G., assignor.)
American Bridge Company. (See Khuen and Reichmann, assignors.)
American Bridge Company. (See Thompson, John H., assignor.)
American Bridge Company, The. (See Weatherson, Christopher, assignor.)
American Callaphone Company. (See Kaufman, Adolph G., assignor.)
American Can Company. (See Egbert, Solomon W., assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Jones, Harry W., assignor.)
American Can Company. (See Kohke, John, assignor.)
American Can Company. (See Laskey, Walden L., assignor.)
American Can Company. (See Leitch, Meredith, assignor.)
American Can Company. (See Ostlin, Olaf, assignor.)
American Can Company. (See Phelps, Walter J., assignor.)
American Can Company. (See Rudolphi, Frank, assignor.)
American Can Company. (See Sharp, Lee C., assignor.)
American Can Company. (See Swangren, Edwin V., assignor.)
American Can Company. (See Taylor, William E., assignor.)
American Can Company. (See Wassman and Widell, assignors.)
American Can Company. (See Weber, George W., assignor.)
American Car & Foundry Company. (See Ames, Joseph H., assignor.)
American Car & Foundry Company. (See Edema, Bertus J., assignor.)
American Car and Foundry Company. (See Frame, Robert E., assignor.)
American Car & Foundry Company. (See Gibbs, Frederick H., assignor.)
American Car and Foundry Company. (See Lane, Victor E., assignor.)
American Car & Foundry Company. (See Rohlfing, John M., assignor.)
American Car and Foundry Company. (See Summa, Victor M., assignor.)
American Car and Foundry Company. (See Voss, William, assignor.)
American Car Screen Company. (See Scott, William A., Jr., assignor.) (Reissue.)
American Case & Register Company, The. (See Tice, Andrew J., assignor.)
American Case & Register Company, The. (See Vick, Rollo M., assignor.)
American Chemical Eduction Company. (See Wurtz, Henry, assignor.)
American Circular Loom Company. (See Lutz, George A., assignor.)
American Clay Machinery Co., The. (See Bach, Julius H., assignor.)
American Clay Machinery Company, The. (See Callaway, Edward H., assignor.)
American Clay Machinery Company, The. (See Cunningham, William R., assignor.)
American Clay Machinery Company, The. (See Fritsch, Edward J., assignor.)
American Coal Chute Co. and Architectural Iron Works. (See Koller, John, assignor.)
American Concrete Piling Company. (See Welsh, Louis E., assignor.)
American Couch Company. (See Penney, Harold D., assignor.)
American Cyanamid Company. (See Peacock, Samuel, assignor.)
American Cystoscope Makers. (See Wappler, Reinhold H., assignor.)
American Desiccating Company. (See Osborne, William S., assignor.)
American Diagraph Company. (See Scott, William H., assignor.)
American District Steam Company. (See Walsh, John D., assignor.)
American District Telegraph Company. (See Johnson, Clarence C., assignor.)
American Dynalite Company, The. (See Briggs, Frank H., assignor.)
American Electrical Heater Company. (See Kuhn, Frank, assignor.)
American Evaporator Company. (See Dunn, Joseph E., assignor.)
American Ever Ready Company. (See Beede, Walter E., assignor.)
American Fender Company. (See Hipwood, George, assignor.)
American Fibre Matting Company. (See Harrison, James G., assignor.)
American Fire Cracker Manufacturing Company. (See Schulman, Louis and J., assignors.)
American Fog Signal Company. (See Niditch, Isadore, assignor.)
American Folding Machine Company, The. (See Pejauo, Alburt D., assignor.)
American Foundry & Furnace Co. (See Frost, Nathaniel, assignor.)
American Furnace Company. (See Laux, John H., assignor.)
American Gas Light Company. (See Maas, Joseph, assignor.)
American Gas & Power Co. (See Haywood, Daniel H., assignor.)
American Gasaccumulator Company. (See Dalen, Gustaf, assignor.)
American Gem & Pearl Company. (See Hilliard, Frederick E., assignor.)
American Granite Saw Company. (See Chase, Elroy A., assignor.) (Reissue.)
American Graphophone Company. (See Macdonald, Thomas H., assignor.)
American Grass Twine Company. (See Goodrick, Edward W., assignor.)
American Grondal Kjellin Company. (See Gröndal, Gustaf, assignor.)
American Gröndal, Kjellin Company. (See Härdén, Petrus, assignor.)
American Gröndal Kjellin Company. (See Öhrn, Gustaf E., assignor.)
American Hoist & Derrick Co. (See Crosby, Oliver, assignor.)
American Iron and Steel Alloys Company, The. (See Carpenter, Franklin R., assignor.)
American Knitting Machine Company. (See Young, William P., assignor.)
American Lacing Hook Co. (See Havener, Arthur R., assignor.)
American Laundry Machinery Company. (See Barnes, William M., assignor.)
American Laundry Machinery Company. (See Cooper, Daniel M., assignor.)
American Laundry Machinery Company. (See Hagen and Cooper, assignors.)
American Lithographic Company. (See Knapp and Pancoast, assignors.)
American Lithographic Company. (See Pancoast, George E., assignor.)
American Lithographic Company. (See Peckham, Richard T., assignor.)
American Locomotive Company. (See Gray, Budd D., assignor.)
American Locomotive Company. (See Mellin, Carl J., assignor.)
American Locomotive Company. (See Sheppard, William. assignor.)
American Looking-Glass Co. (See Glaser and Wainblatt, assignors.)
American Mahogany Company. (See Hall, William A., assignor.)
American Manufacturing Company. (See Austin, Thomas W., assignor.)
American Marine Lamp Mfg. Co. (See Kleinberger and Stern, assignors.)
American Mason Safety Tread Company. (See Campbell, James L., assignor.)
American Mason Safety Tread Company. (See Davis, Augustin I., assignor.)
American Metal Cap Company. (See Becher, Otto, assignor.)

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American Metal Edge Box Company. (See Lewis, Robert B., assignor.)
American Meter Company. (See Dezendorf, Richard L., assignor.)
American Mining Tool Company. (See Hallander, John A., assignor.)
American Moistening Company. (See Dow, Charles E. W., assignor.)
American Moistening Company. (See Smith, Robert P., assignor.)
American Monorail Company. (See Tunis, Howard H., assignor.)
American Moving Picture Machine Company. (See Uebelmesser, Charles R., assignor.)
American Multigraph Company, The. (See Gammeter, Harry C., assignor.)
American Multigraph Company, The. (See Newton, George T., assignor.)
American Narrow Fabric Company. (See Lations, Charles A., assignor.)
American Narrow Fabric Company. (See Stahl, Charles H., assignor.)
American Novelty Paper Co., The. (See Coon, Charles H., assignor.)
American Numbering Machine Company. (See Conrad, Benjamin B., assignor.)
American Oil Engine Company. (See Johnston, Philip D., assignor.)
American Optical Company. (See Bernheim, Eugene C., assignor.)
American Optical Company. (See Blanchard, Frederick G., assignor.)
American Optical Company. (See Day, George H., assignor.)
American Optical Company. (See Jenner, George C., assignor.)
American Optical Company. (See Matters, Edward R., assignor.)
American Optical Company. (See Reno, Joseph, assignor.)
American Optical Company. (See Willmott, Francis J., assignor.)
American Oxhydric Company, The. (See Lulli, Primo, assignor.)
American Pad & Textile Company, The. (See Miles, Casper W., assignor.)
American Paper Goods Company, The. (See Hay, Edgar P., assignor.)
American Patent Development Company. (See Martel, Adelard F., assignor.)
American Piano Player Company. (See Williams, George S., assignor.)
American Pin Company. (See Willetts, William R., assignor.)
American Pipe Lining Corporation. (See Persons, James O., assignor.)
American Planograph Company. (See Cornwall, George R., assignor.)
American Planograph Company. (See Saltzman, Auguste L., assignor.)
American Pneumatic Service Company. (See Stoddard, Charles F., assignor.)
American Pneumatic Service Company. (See Waterhouse, Harold D., assignor.)
American Postal Machines Company, The. (See Stoddard, Thomas G., assignor.)
American Postal Machines Company. (See Stoddard and Barbour, assignors.)
American Power & Mfg. Co. (See Snee, William, assignor.)
American Printing House for the Blind, The. (See McCann, Owen, assignor.)
American Pulley Company, The. (See Bowen, Russell H., assignor.)
American Pulley Company, The. (See Brinley, Charles A., assignor.)
American Pulley Company, The. (See Brinley and Bowen, assignors.)
American Pulverizer Company. (See Goetz, Henry A., assignor.)
American Radiator Company. (See Lyon, De Witt T., assignor.)
American Railway Device Co., The. (See Reynolds, James F., assignor.)
American Railway Supply Company. (See Studds, Colin A., assignor.)
American Road Machine Company, The. (See Fogg, James R., assignor.)
American Sales Book Company. (See Hollingsworth, Samuel, assignor.)
American Sales Book Company. (See Landon, Asa E., assignor.)
American Sales Book Company. (See Roessle, August F., assignor.)
American Sanitary Paper Cup Company. (See Thompson, Jesse C., assignor.)
American Sanitary Supply Company. (See Lovatt, Bernard, assignor.)
American Sanitary Works, The. (See Tilden, Bert O., assignor.)
American Seating Company. (See Lytle, Alton A., assignor.)
American Securities Company. (See Smith, Curtis M., assignor.)
American Seeding Machine Company, The. (See Faas and Dodson, assignors.)
American Seeding Machine Company, The. (See Moon and Christmas, assignors.)
American Seeding Machine Company, The. (See Packham and Oates, assignors.)
American Seeding Machine Company, The. (See Wheeler, Frank C., assignor.)
American Sheet & Tin Plate Company. (See Bray, Charles W., assignor.)
American Sheet & Tin Plate Company. (See Kuznor, Peter, assignor.)
American Sheet & Tin Plate Company. (See McArthur, Arthur R., assignor.)
American Sheet & Tin Plate Company. (See Wile, Raymond S., assignor.)
American Sign Company. (See Smith, Jay C., assignor.)
American Skate Company. (See Raymond, Cadwallader M., assignor.)
American Specialty Manufacturing Co., The. (See Munk, Robert W., assignor.)
American Specialty Manufacturing Company. (See Riehl, John B., assignor.)
American Spiral Pipe Works. (See Taylor, James H., assignor.)
American Stamp and Ticket Vending Machine Company. (See Oehring, Oscar, assignor.)
American Stamp & Ticket Vending Machine Company, The. (See Wollheim, Heinrich, assignor.)
American Steam Gauge & Valve Manufacturing Company. (See Kinney, Amos P., assignor.)
American Steam Gauge and Valve Manufacturing Company. (See Manning, Coleman J., assignor.)
American Steel Foundries. (See Davis, James C., assignor.)
American Steel Foundries. (See Floyd, George G., assignor.)
American Steel Foundries. (See Janney, Robert E. L., assignor.)
American Steel Foundries. (See Kinne, Edmund P., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Steel Foundries. (See MacGregor, Walter, assignor.)
American Steel Foundries. (See Murray, Charles F., assignor.)
American Steel Foundries. (See Schroyer, Charles A., assignor.)
American Steel Foundries. (See Wright, Frank G., assignor.)
American Steel Package Co., The. (See Kruse, Alfred T., assignor.)
American Steel & Wire Company. (See Broden, Edwin H., assignor.)
American Steel and Wire Company, The. (See Cocker, John A., assignor.)
American Steel & Wire Company. (See Sprague, Arthur W., assignor.)
American Steel & Wire Company. (See Sprague and Mulroyan, assignors.)
American Steel & Wire Company. (See Sturdevant, Charles R., assignor.)
American Steel & Wire Company. (See Tängring, Olof, assignor.)
American Steel and Wire Company of New Jersey, The. (See Sturdevant, Charles R., assignor.)
American Stoker Company, The. (See Leiter and Oakman, assignors.)
American Stove Company. (See Blackford, Atwell J., assignor.)
American Stove Company. (See Harvey, John G., assignor.)
American Stove Company. (See Meacham, Benjamin E., assignor.)
American Sugar Refining Company, The. (See Keppler, Theodore L., assignor.)
American Suspension Railway Company, The. (See Smith, Josiah H., assignor.)
American Tar Company. (See Price, Charles P., assignor.)
American Textile Company. (See Bélanger, Victor, assignor.)
American Thermos Bottle Company. (See Burger and Aschenbrenner, assignors.) (Reissue.)
American Thermos Bottle Company. (See Paalen, Gustav R., assignor.)
American Thermostat Company. (See Guion and Johnson, assignors.)
American Thermostat Company. (See Hungerford, Daniel D., assignor.)
American Thread Company, The. (See Leitch, Meredith, assignor.)
American Tire Drill Company. (See Funk, Edward, assignor.)
American Tobacco Company, The. (See Daprato, John J., assignor.)

Alphabetical list of patentees—Continued.

American Tool and Machine Company. (See Phillips, Eli W., assignor.)
American Tool Works Company, The. (See Schatz, Herman W., assignor.)
American Toy Company. (See Killman, Thomas A., assignor.)
American Typographic Corporation. (See Richards, Francis H., assignor.)
American Valve & Meter Company. (See Anderson, Frank C., assignor.)
American Vending Machine Company. (See Garson, Edgar I., assignor.)
American Vertebrate Propeller Company. (See Turner, Joseph, assignor.)
American Warp-Drawing Machine Company. (See Field, Lanning, Hathaway, and Blanchard, assignors.)
American Water Main Cleaning and Contracting Co. (See Greenan and Redford, assignors.)
American Water Supply Company of New England. (See Hussey, Alfred R., assignor.)
American Window Glass Machine Company. (See Thornburg, Lincoln A., assignor.)
American Wireless Institute. (See Butler, Frank E., assignor.)
American Wood Working Machinery Co. (See Perkins, Hiram A., assignor.)
American Wood Working Machinery Co. (See Welker, Fredrick, assignor.)
American Wringer Company, The. (See Pendleton, Harry F., assignor.)
American Zinc, Lead & Smelting Company. (See Wettengel, Charles A., assignor.)
Ames, Arthur N., Franklin Falls, N. H. Circular-fashioning knitting-machine. No. 962,291; June 21; Sp. p. 4306; Gaz. vol. 155; p. 744.
Ames, Arthur N., Franklin Falls, N. H. Circular-knitting machine. No. 962,292; June 21; Sp. p. 4315; Gaz. vol. 155; p. 744.
Ames, Joseph H., Oak Park, assignor to American Car & Foundry Company, Chicago, Ill. Built-up die. No. 958,459; May 17; Sp. p. 4492; Gaz. vol. 154; p. 735.
Amet, Edward H., Redondo Beach, Cal. Hair-drying fan. No. 963,677; July 5; Sp. p. 1421; Gaz. vol. 156; p. 223.
Amick, Cliff W., New Franklin, Mo. Sad-iron. No. 957,532; May 10; Sp. p. 2212; Gaz. vol. 154; p. 382.
Amick, Henry J., assignor of one-third to J. A. Murphy, Runa, W. Va. Door-lock. No. 960,245; June 7; Sp. p. 4; Gaz. vol. 155; p. 3.
Amies Asphalt Company, The. (See Amies, Joseph H., assignor.)
Amies, Joseph H., assignor of one-half to C. F. Taylor, Philadelphia, Pa. Manufacturing and laying bituminous paving. No. 945,071; Jan. 4; Sp. p. 139; Gaz. vol. 150; p. 23.
Amies, Joseph H., assignor to The Amies Asphalt Company, Philadelphia, Pa. Road construction. No. 945,999; Jan. 11; Sp. p. 2211; Gaz. vol. 150; p. 367.
Amies, Joseph H., assignor to The Amies Asphalt Company, Philadelphia, Pa. Bituminous cement. No. 951,471; Mar. 8; Sp. p. 2060; Gaz. vol. 152; p. 357.
Amies, Joseph H., assignor to The Amies Asphalt Company, Philadelphia, Pa. Street and road construction. No. 958,063; May 17; Sp. p. 3537; Gaz. vol. 154; p. 596.
Amies, Joseph H., assignor to The Amies Asphalt Company, Philadelphia, Pa. Road construction. No. 958,064; May 17; Sp. p. 3538; Gaz. vol. 154; p. 596.
Amies, Joseph H., assignor to The Amies Asphalt Company, Philadelphia, Pa. Road and street construction. No. 966,982; Aug. 9; Sp. p. 2480; Gaz. vol. 157; p. 408.
Ammen, Francis D. (See Strause, Edmund A., assignor.)
Ammentorp, Anders, Altona, assignor to C. Diederichs, Hamburg, Germany. Fire-extinguisher. No. 950,778; Mar. 1; Sp. p. 686; Gaz. vol. 152; p. 109.
Ammerman, John D. (See Brown, Charles R., assignor.)
Ammons, Ralph W., Delano, Cal. Water-cooler. No. 964,734; July 19; Sp. p. 3810; Gaz. vol. 156; p. 634.
Amos, Frank H. (See Frankenstein and Amos.)
Amos, Harry M., Lorain, Ohio. Adjustable frame for making concrete receptacles. No. 969,436; Sept. 6; Sp. p. 606; Gaz. vol. 158; p. 96.
Amos, Richard W., Paterson, N. J., assignor to National Purification Company, New York, N. Y. Drying and condensing apparatus. No. 965,058; July 19; Sp. p. 4466; Gaz. vol. 156; p. 743.
Amsden, George A., Littleton, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Cable-carrier apparatus. No. 958,207; May 17; Sp. p. 3826; Gaz. vol. 154; p. 646.
Amsden, George A., Littleton, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Cable-carrier apparatus. No. 978,826; Dec. 20; Sp. p. 3017; Gaz. vol. 161; p. 537.
Amsden, George A., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Cable-carrier apparatus. No. 960,617; June 7; Sp. p. 781; Gaz. vol. 155; p. 127.
Amsler, Charles F. (See Bach, Leon E., assignor.)
Amsler, Paul, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Cooling of inclosed dynamo-electric machinery. No. 953,574; Mar. 29; Sp. p. 6452; Gaz. vol. 152; p. 1153.
Amsler, Walter O., Pittsburg, Pa. Hot-blast stove. No. 945,360; Jan. 4; Sp. p. 775; Gaz. vol. 150; p. 119.
Amsler, Walter O., Pittsburg, Pa. Apparatus for making producer-gas. No. 974,945; Nov. 8; Sp. p. 1970; Gaz. vol. 160; p. 324.
Amsler, Walter O., Pittsburg, Pa. Making producer-gas. No. 979,818; Dec. 27; Sp. p. 5206; Gaz. vol. 161; p. 903.
Amspacker, Lemmet L., Glasco, Kans. Riveter. No. 952,595; Mar. 22; Sp. p. 4334; Gaz. vol. 152; p. 793.
Amstutz, Amos A., Bluffton, Ohio. Feed-water heater. No. 954,157; Apr. 5; Sp. p. 981; Gaz. vol. 153; p. 166.
Amusement Park Railway Co. (See Reynolds, Afton G., assignor.)
Anable, Frederick S. (See Blake, Philip W., assignor.)
Ancil, Charles A., and J. Bollet, Marion, Ind. Combined skating-rink and merry-go-round. No. 962,608; June 28; Sp. p. 5017; Gaz. vol. 155; p. 877.
Anck, John M., deceased; W. Anck, administrator, assignor of one-twelfth to J. A. Wiedersheim, one-twelfth to W. C. Wiederseim, one-twelfth to T. H. Fairbanks, and one-fourth to W. S. Jackson, Philadelphia, Pa. Electric mercury arc-lamp. No. 950,760; Mar. 1; Sp. p. 640; Gaz. vol. 152; p. 103.
Anck, William, administrator. (See Anck, John M.)
Anctil, Ulric, Pittsfield, Me. Nostril-protector for horses. No. 960,142; May 31; Sp. p. 8053; Gaz. vol. 154; p. 1353.
Anderberg, Anders O., Malmö, assignor to Aktiebolaget Merkantila Ingeniörsbyrän, Stockholm, Sweden. Apparatus for purification of water. No. 961,926; June 21; Sp. p. 3507; Gaz. vol. 155; p. 620.
Anders, Reinhold. (See Brucklacher, John C., assignor.)
Andersen, Carl J., Brooklyn, N. Y. Level. No. 958,349; May 17; Sp. p. 4262; Gaz. vol. 154; p. 696.
Andersen, Charles, New Rochelle, N. Y. Pulley-block. No. 970,978; Sept. 20; Sp. p. 3914; Gaz. vol. 158; p. 669.
Andersen, Charles C., Chicago, Ill. Extension-plank. No. 962,691; June 28; Sp. p. 5186; Gaz. vol. 155; p. 906.
Andersen, Eldor, New York, N. Y. Spirit-level. No. 948,570; Feb. 8; Sp. p. 1671; Gaz. vol. 151; p. 291.
Andersen, Frederick E., Red Wing, Minn. Door check and closer. No. 969,150; Sept. 6; Sp. p. 1; Gaz. vol. 158; p. 3.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Co., Waterbury, Conn. Gas, electric, and combination fixture. No. 965,841; July 26; Sp. p. 6146; Gaz. vol. 156; p. 1042.
Andersen, Lauritz W., assignor to The Plume and Atwood Manufacturing Company, Waterbury, Conn. Canopy for gas and electric-light fixtures. No. 978,532; Dec. 13; Sp. p. 2404; Gaz. vol. 161; p. 414.
Andersen, Paul, Pinole, Cal. Hydraulic motor. No. 972,981; Oct. 18; Sp. p. 3250; Gaz. vol. 159; p. 565.
Andersen, Soren P. (See Hodge and Andersen.)
Anderson, Abraham A., New York, N. Y. Egg holder and cutter. No. 962,293; June 21; Sp. p. 4318; Gaz. vol. 155; p. 745.
Anderson, Albert, Tacoma, Wash. Rack. No. 977,693; Dec. 6; Sp. p. 623; Gaz. vol. 161; p. 95.
Anderson, Albert S., Schenectady, N. Y., assignor to General Electric Company. Governing mechanism for turbines. No. 963,110; July 5; Sp. p. 226; Gaz. vol. 156; p. 29.
Anderson, Alex L., Beatrice, Nebr. Egg-tester. No. 952,174; Mar. 15; Sp. p. 3454; Gaz. vol. 152; p. 621.
Anderson, Alfred, Chicago, Ill. Convertible skate. No. 945,435; Jan. 4; Sp. p. 926; Gaz. vol. 150; p. 145.
Anderson, Alfred, Minneapolis, Minn. Top-spinning device. No. 945,484; Jan. 4; Sp. p. 1020; Gaz. vol. 150; p. 160.
Anderson, Alfred, Los Angeles, Cal. Water-heater or steam-generator. No. 953,453; Mar. 29; Sp. p. 6190; Gaz. vol. 152; p. 1110.
Anderson, Alfred, Royal, Iowa. Show-case. No. 962,544; June 28; Sp. p. 4875; Gaz. vol. 155; p. 856.
Anderson, Andrew G., Ferron, Utah. Station-indicator. No. 956,260; Apr. 26; Sp. p. 5588; Gaz. vol. 153; p. 974.
Anderson, Andrew V., Florence, Minn. Wire-splicer. No. 966,152; Aug. 2; Sp. p. 659; Gaz. vol. 157; p. 105.
Anderson, Arent S., Elliott, Ill. Friction clutch-pulley. No. 977,257; Nov. 29; Sp. p. 7015; Gaz. vol. 160; p. 1193.
Anderson, Aron, Chicago, Ill. Circular sawing machine. No. 945,436; Jan. 4; Sp. p. 927; Gaz. vol. 150; p. 145.
Anderson, Arthur J., and G. A. Hanson, Aberdeen, S. D. Engine-valve. No. 959,689; May 31; Sp. p. 7050; Gaz. vol. 154; p. 1197.
Anderson, Carl A., Dubois, Pa. Apparatus for boiler-flue work. No. 966,638; Aug. 9; Sp. p. 1719; Gaz. vol. 157; p. 293.
Anderson, Carl A., assignor to Reliance Elevator Company, Chicago, Ill. Cable-hitch for elevators. No. 969,322; Sept. 6; Sp. p. 359; Gaz. vol. 158; p. 59.
Anderson, Carl E., assignor to The Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Switch-handle. No. 946,309; Jan. 11; Sp. p. 2866; Gaz. vol. 150; p. 475.
Anderson, Carl E., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Push-switch. No. 955,035; Apr. 12; Sp. p. 2919; Gaz. vol. 153; p. 494.

Alphabetical list of patentees—Continued.

Anderson, Charles, Clay Center, Kans. Adjustable weather-strip. No. 961,383; June 14; Sp. p. 2349; Gaz. vol. 155; p. 415.
Anderson, Charles H., Seattle, Wash. Passenger-car. No. 946,871; Jan. 18; Sp. p. 4191; Gaz. vol. 150; p. 690.
Anderson, Charles H., Seattle, Wash. Car-lighting installation. No. 968,913; Aug. 30; Sp. p. 6563; Gaz. vol. 157; p. 1143.
Anderson, Charles H., Seattle, Wash. Hand-brake mechanism. No. 973,097; Oct. 18; Sp. p. 3499; Gaz. vol. 159; p. 604.
Anderson, Charles H., Seattle, Wash. Passenger-car. No. 977,359; Nov. 29; Sp. p. 7233; Gaz. vol. 160; p. 1228.
Anderson, Charles H., Seattle, Wash. Center-bearing for railway-cars. No. 977,694; Dec. 6; Sp. p. 624; Gaz. vol. 161; p. 95.
Anderson, Charles H., Seattle, Wash. Car-bolster. No. 978,424; Dec. 13; Sp. p. 2181; Gaz. vol. 161; p. 378.
Anderson, Charles H., Oklahoma, Okla., assignor to North & Judd Manufacturing Company, New Britain, Conn. Harness-spreader. No. 955,741; Apr. 19; Sp. p. 4436; Gaz. vol. 153; p. 765.
Anderson, Charles L. (See Douglas, Stephen A., assignor.)
Anderson, Charles L. (See Rockwell, Robert R., assignor.)
Anderson, Charles O., Wichita, Kans. Stock-trough. No. 979,052; Dec. 20; Sp. p. 3530; Gaz. vol. 161; p. 617.
Anderson, Clarence A., Salina, Kans. Pay-station box for telephones. No. 948,753; Feb. 8; Sp. p. 2071; Gaz. vol. 151; p. 353.
Anderson, Clarence J., St. Louis, Mo. Screw-seat. No. 945,737; Jan. 11; Sp. p. 1613; Gaz. vol. 150; p. 273.
Anderson, Con D., Lima, Ohio. Vehicle-wheel. No. 958,350; May 17; Sp. p. 4266; Gaz. vol. 154; p. 696.
Anderson, Conrad R., West Duluth, Minn. Ratchet-wrench. No. 959,690; May 31; Sp. p. 7051; Gaz. vol. 154; p. 1198.
Anderson, Daniel A., Deer Creek, Minn. Bench-clamp. No. 977,695; Dec. 6; Sp. p. 627; Gaz. vol. 161; p. 95.
Anderson, David. (See Baker and Anderson.)
Anderson, David A., assignor to Central Architectural Iron Works, Chicago, Ill. Sliding-door latch. No. 961,197; June 14; Sp. p. 1938; Gaz. vol. 155; p. 350.
Anderson, Edward C., Milaca, Minn. Stump-puller. No. 967,300; Aug. 16; Sp. p. 3141; Gaz. vol. 157; p. 543.
Anderson, Edward V., Monessen, assignor of one-half to C. E. Golden, Crafton, Pa. Valve mechanism. No. 967,702; Aug. 16; Sp. p. 3957; Gaz. vol. 157; p. 679.
Anderson, Elias B., Rock Falls, Ill. Buckle. No. 958,065; May 17; Sp. p. 3539; Gaz. vol. 154; p. 597.
Anderson, Elias B., Rock Falls, Ill. Fly-trap. No. 958,208; May 17; Sp. p. 3827; Gaz. vol. 154; p. 647.
Anderson, Elie G. (See Anderson, Thomas G., S. C., and E. G.)
Anderson, Ellis B., Jackson, Miss. Automatic change-valve for presses. No. 946,481; Jan. 11; Sp. p. 3317; Gaz. vol. 150; p. 533.
Anderson, Elmer E., Boswell, Ind. Stove. No. 972,490; Oct. 11; Sp. p. 2109; Gaz. vol. 159; p. 367.
Anderson, Emerik, Newburyport, Mass. Shoe. No. 974,010; Oct. 25; Sp. p. 5451; Gaz. vol. 159; p. 944.
Anderson, Eugene G., assignor of one-half to C. Whitehead, Erie, Pa. Saw. No. 963,848; July 12; Sp. p. 1843; Gaz. vol. 156; p. 303.
Anderson, Everett, Caney, Kans. Kiln. No. 954,243; Apr. 5; Sp. p. 1169; Gaz. vol. 153; p. 195.
Anderson, Frank B., assignor to The V. D. Anderson Company, Cleveland, Ohio. Extracting oil. No. 960,143; May 31; Sp. p. 8054; Gaz. vol. 154; p. 1354.
Anderson, Frank B., assignor to The V. D. Anderson Company, Cleveland, Ohio. Apparatus for extracting oil. No. 960,144; May 31; Sp. p. 8056; Gaz. vol. 154; p. 1354.
Anderson, Frank C., assignor to American Valve & Meter Company, Cincinnati, Ohio. Switch-interlocking mechanism. No. 946,952; Jan. 18; Sp. p. 4356; Gaz. vol. 150; p. 716.
Anderson, Frank C., assignor to American Valve & Meter Company, Cincinnati, Ohio. Compound double automatic latch. No. 950,468; Mar. 1; Sp. p. 1; Gaz. vol. 152; p. 3.
Anderson, Frank C., assignor to American Valve & Meter Company, Cincinnati, Ohio. Valve-chamber for water-columns. No. 957,533; May 10; Sp. p. 2214; Gaz. vol. 154; p. 383.
Anderson, Frank C., assignor to American Valve & Meter Company, Cincinnati, Ohio. Valve mechanism for water-columns. No. 958,351; May 17; Sp. p. 4268; Gaz. vol. 154; p. 697.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Switch safety mechanism. No. 959,691; May 31; Sp. p. 7052; Gaz. vol. 154; p. 1198.
Anderson, Frank C., assignor to American Valve & Meter Company, Cincinnati, Ohio. Spout for water-columns. No. 965,849; Aug. 2; Sp. p. 5; Gaz. vol. 157; p. 4.
Anderson, Frank C., assignor to American Valve & Meter Company, Cincinnati, Ohio. Spout for water-columns. No. 969,321; Sept. 6; Sp. p. 356; Gaz. vol. 158; p. 58.
Anderson, Frank E., assignor to Cutler Mail Chute Company, New York, N. Y. Mail-chute. No. 962,489; June 28; Sp. p. 4752; Gaz. vol. 155; p. 837.
Anderson, Frank E., assignor to Cutler Mail-Chute Company, New York, N. Y. Mail-chute. No. 971,015; Sept. 27; Sp. p. 3987; Gaz. vol. 158; p. 709.
Anderson, Frank O., Jamestown, N. Y. Pivotal support for mirrors. No. 959,099; May 24; Sp. p. 5829; Gaz. vol. 154; p. 977.
Anderson, Frank P., Chicago, Ill. Combined parlor bed and chair. No. 978,533; Dec. 13; Sp. p. 2406; Gaz. vol. 161; p. 415.
Anderson, Fred E. (See Peterson, Lars C., assignor.)
Anderson, George A., Fargo, N. D. Tamping device. No. 966,292; Aug. 2; Sp. p. 949; Gaz. vol. 157; p. 151.
Anderson, George E., Chicago, Ill. Combination-wrench. No. 956,467; Apr. 26; Sp. p. 6023; Gaz. vol. 153; p. 1045.
Anderson, George E., assignor to A. H. Andrews Co., Chicago, Ill. Adjustable support for furniture. No. 957,176; May 10; Sp. p. 1455; Gaz. vol. 154; p. 259.
Anderson, George K., Willimantic, Conn. Spool. No. 949,641; Feb. 15; Sp. p. 3883; Gaz. vol. 151; p. 676.
Anderson, Gustaf A., Waynesboro, Pa. Draft appliance for plows. No. 976,024; Nov. 15; Sp. p. 4242; Gaz. vol. 160; p. 719.
Anderson, Gustaf E., Stockholm, Sweden. Milking-machine. No. 974,011; Oct. 25; Sp. p. 5451; Gaz. vol. 159; p. 944.
Anderson, Gustaf E., assignor to J. G. E. Sundberg, Stockholm, Sweden. Milking apparatus. No. 959,042; May 24; Sp. p. 5700; Gaz. vol. 154; p. 957.
Anderson, Gustaf M., Waterloo, Iowa. Centrifugal cream-separator. No. 960,768; June 7; Sp. p. 1075; Gaz. vol. 155; p. 180.
Anderson, Hans, Malcolm, N. D. Draft pole or tongue. No. 978,806; Dec. 13; Sp. p. 2981; Gaz. vol. 161; p. 505.
Anderson, Harold B. (See Winton and Anderson.)
Anderson, Harold B., and B. B. Brockway, assignors to Cleveland Aeroplane Company, Cleveland, Ohio. Amusement apparatus or aviator-instructor. No. 978,263; Dec. 13; Sp. p. 1839; Gaz. vol. 161; p. 321.
Anderson, Harry T., assignor of twenty-two and one-half one-hundredths to W. H. Mateer and twenty-two and one-half one-hundredths to G. M. Shaw, Butler, Pa. Bolster-guide for truck-frames. No. 966,375; Aug. 2; Sp. p. 1099; Gaz. vol. 157; p. 177.
Anderson, Harry T., assignor of twenty-two and one-half one-hundredths to W. H. Mateer and twenty-two and one-half one-hundredths to G. M. Shaw, Butler, Pa. Bolster-guide for truck-frames. No. 966,376; Aug. 2; Sp. p. 1100; Gaz. vol. 157; p. 177.
Anderson, Henry, Calamus, Iowa. Corn-hanger. No. 958,687; May 17; Sp. p. 4925; Gaz. vol. 154; p. 809.
Anderson, Houston R., Chattanooga, Okla. Track-joint. No. 972,673; Oct. 11; Sp. p. 2530; Gaz. vol. 159; p. 431.
Anderson, Isak, Evanston, Ill. Folding garment-hanger. No. 949,815; Feb. 22; Sp. p. 4259; Gaz. vol. 151; p. 768.
Anderson, Iver R., assignor to R. O. Stutsman Company, Des Moines, Iowa. Peanut-roaster. No. 976,424; Nov. 22; Sp. p. 5185; Gaz. vol. 160; p. 881.
Anderson, James, Cold Spring, N. Y. Mold-filling machine. No. 949,745; Feb. 15; Sp. p. 4091; Gaz. vol. 151; p. 709.
Anderson, James A., assignor to Montauk Engineering Company, New York, N. Y. Automatic device for controlling water-supply. No. 948,303; Feb. 8; Sp. p. 1087; Gaz. vol. 151; p. 201.
Anderson, James C., Washington, D. C. Manufacturing spark-plugs. No. 966,784; Aug. 9; Sp. p. 2066; Gaz. vol. 157; p. 343.
Anderson, James C., Washington, D. C. Spark-plug. No. 979,242; Dec. 20; Sp. p. 3977; Gaz. vol. 161; p. 685.
Anderson, James G. (See Anderson, William D. and J. G.)
Anderson, James S., Newport, Ky. Display-machine. No. 957,640; May 10; Sp. p. 2422; Gaz. vol. 154; p. 419.
Anderson, Joel M., administrator. (See Jackson, Walter M.)
Anderson, John, Portland, Conn. Food-cutter. No. 952,665; Mar. 22; Sp. p. 4497; Gaz. vol. 152; p. 818.
Anderson, John, assignor of one-third to F. Hardart and one-third to J. V. Horn, Philadelphia, Pa. Machine for decorating pastry. No. 961,090; June 14; Sp. p. 1723; Gaz. vol. 155; p. 313.
Anderson, John C., *et al.* (See Smith, Robert W. J., assignor.)
Anderson, John F., San Francisco, Cal. Wrench. No. 978,827; Dec. 20; Sp. p. 3019; Gaz. vol. 161; p. 537.
Anderson, John H., St. Paul, Minn. Draw-bar splice. No. 950,648; Mar. 1; Sp. p. 395; Gaz. vol. 152; p. 64.
Anderson, John M. (See Griffith, William, assignor.)
Anderson, John N., assignor of one-half to C. F. Jordan, Madison, Wis. Elevated carrying system. No. 969,437; Sept. 6; Sp. p. 607; Gaz. vol. 158; p. 96.
Anderson, John N., assignor of one-half to C. F. Jordan, Madison, Wis. Cable-operating drum. No. 969,438; Sept. 6; Sp. p. 608; Gaz. vol. 158; p. 97.
Anderson, John P. A., Madrid, Iowa. Lightning-protector for buildings. No. 951,411; Mar. 8; Sp. p. 1941; Gaz. vol. 152; p. 337.
Anderson, John S., assignor to The Glencoe Foundry and Machine Company, Glencoe, Minn. Boat-hull. No. 965,145; July 19; Sp. p. 4630; Gaz. vol. 156; p. 772.
Anderson, John V., *et al.* (See Bjorklund, Charley, assignor.)

Anderson, John W., Sisson, Cal. Fluid-operated controlling mechanism. No. 959,417; May 24; Sp. p. 6455; Gaz. vol. 154; p. 1081.
Anderson, John W., assignor of one-half to Allith Manufacturing Company Limited, Hamilton, Ontario, Canada. Trolley-wheel replacer. No. 955,742; Apr. 19; Sp. p. 4437; Gaz. vol. 153; p. 766.
Anderson, Joseph, San Diego, Cal. Pencil-sharpener. No. 969,323; Sept. 6; Sp. p. 360; Gaz. vol. 158; p. 59.
Anderson, Joseph C., assignor of one-half to J. T. Henderson, Cordova, Ala. Knot-tying machine. No. 949,408; Feb. 15; Sp. p. 3439; Gaz. vol. 151; p. 600.
Anderson, Julius, assignor to O. Sweet, Eau Claire, Wis. Pipe-puller. No. 969,508; Sept. 6; Sp. p. 755; Gaz. vol. 158; p. 119.
Anderson, Kos M., Temple, Tex. Locking device for lubricating-cups. No. 980,043; Dec. 27; Sp. p. 5677; Gaz. vol. 161; p. 977.
Anderson-Lacy Electric Headlight Company, The. (See Anderson, Thomas J., assignor.)
Anderson, Lars, Chicago, Ill., assignor to H. S. Morton, Cranford, N. J. Carbureter. No. 950,423; Feb. 22; Sp. p. 5572; Gaz. vol. 151; p. 977.
Anderson, Leonard W. (See Fontaine, Robert A., assignor.)
Anderson, Louis, San Francisco, Cal. Non-refillable bottle. No. 954,244; Apr. 5; Sp. p. 1170; Gaz. vol. 153; p. 195.
Anderson, Milton J., *et al.* (See Weddle and Robinson, assignors.)
Anderson, N. W. (See Badeker, John, assignor.)
Anderson, Neal L., Winston Salem, N. C. Type-writer carriage-return mechanism. No. 953,938; Apr. 5; Sp. p. 505; Gaz. vol. 153; p. 92.
Anderson, Nels D., Parkersburg, Iowa, assignor of one-half to J. A. Bokel, Baltimore, Md. Shelter-tent. No. 958,066; May 17; Sp. p. 3541; Gaz. vol. 154; p. 597.
Anderson, Nels J., Denver, Colo. Spring-gear for vehicles. No. 972,145; Oct. 11; Sp. p. 1367; Gaz. vol. 159; p. 250.
Anderson, Newton J., Coffeyville, Kans. Torch. No. 976,717; Nov. 22; Sp. p. 5787; Gaz. vol. 160; p. 979.
Anderson, Olof, Chicago, Ill. Draft-gear. No. 954,071; Apr. 5; Sp. p. 782; Gaz. vol. 153; p. 136.
Anderson, Olof, Chicago, Ill. Uncoupling mechanism for cars. No. 970,778; Sept. 20; Sp. p. 3523; Gaz. vol. 158; p. 602.
Anderson, Oscar A., Chicago, Ill. Riveting-machine. No. 945,670; Jan. 4; Sp. p. 1417; Gaz. vol. 150; p. 221.
Anderson, Pahr, Cambridge, Mass., assignor to Dover Stamping & Manufacturing Company, Portland, Me. Funnel. No. 979,819; Dec. 27; Sp. p. 5207; Gaz. vol. 161; p. 903.
Anderson & Prigge. (See Dixon, Laurens P., assignor.)
Anderson, Robert, assignor to The Ferro-Concrete Construction Company, Cincinnati, Ohio. Machine for bending metal bars. No. 947,288; Jan. 25; Sp. p. 5061; Gaz. vol. 150; p. 856.
Anderson, Robert, Sarcoxie, assignor of one-third to A. A. Cox, Stotts City, Mo. Milk-cooler and cream-receptacle. No. 956,021; Apr. 26; Sp. p. 5045; Gaz. vol. 153; p. 892.
Anderson, Robert H., San Diego, Cal. Recess-bed. No. 950,362; Feb. 22; Sp. p. 5455; Gaz. vol. 151; p. 956.
Anderson, Severin B., assignor of one-half to J. C. Carlson, Lapwai, Idaho. Rein check or stop. No. 950,217; Feb. 22; Sp. p. 5180; Gaz. vol. 151; p. 909.
Anderson, Seymour C. (See Anderson, Thomas G., S. C., and E. G.)
Anderson, Thomas G., S. C., and E. G., Langdon, Mo. Aerial mail trolley and box. No. 959,418; May 24; Sp. p. 6458; Gaz. vol. 154; p. 1081.
Anderson, Thomas J., assignor to The Anderson-Lacy Electric Headlight Company, Houston, Tex. Arc-lamp. No. 962,692; June 28; Sp. p. 5187; Gaz. vol. 155; p. 906.
Anderson Tool Company, The. (See Burkhardt, Franklin P., assignor.)
Anderson, Vaino, Knappton, Wash. Coaling device. No. 975,312; Nov. 8; Sp. p. 2786; Gaz. vol. 160; p. 450.
Anderson, Vincent. (See Chader and Anderson.)
Anderson, Werner E., Chicago, Ill. Chuck. No. 964,195; July 12; Sp. p. 2541; Gaz. vol. 156; p. 419.
Anderson, Wilbur C., Canton, Ohio. Steam-power apparatus. No. 965,850; Aug. 2; Sp. p. 8; Gaz. vol. 157; p. 4.
Anderson, William C., San Jose, Cal. Raisin-seeder. No. 951,897; Mar. 15; Sp. p. 2933; Gaz. vol. 152; p. 530.
Anderson, William C., San Jose, Cal. Raisin-stemmer. No. 962,609; June 28; Sp. p. 5019; Gaz. vol. 155; p. 878.
Anderson, William C., San Jose, Cal. Raisin-seeder. No. 976,247; Nov. 22; Sp. p. 4798; Gaz. vol. 160; p. 820.
Anderson, William D. and J. G., Milwaukee, Wis. Brush-cleaner for sieves and bolters. No. 971,715; Oct. 4; Sp. p. 425; Gaz. vol. 159; p. 74.
Anderson, William E., Jamestown, N. Y. Mold. No. 951,753; Mar. 8; Sp. p. 2618; Gaz. vol. 152; p. 453.
Anderson, William J., *et al.* (See Bell, Dillwyn M., assignor.)
Anderson, William L., Davenport, Cal. Clothes-line support. No. 959,419; May 24; Sp. p. 6459; Gaz. vol. 154; p. 1081.
Anderson, William T., Brooklyn, N. Y. Combined athletic shirt. No. 948,199; Feb. 1; Sp. p. 854; Gaz. vol. 151; p. 140.
Anderson, William T., Brooklyn, N. Y. Swimming-shirt. No. 959,441; May 31; Sp. p. 6509; Gaz. vol. 154; p. 1115.
Anderson, William W., Ashland, Ky. Detachable closure. No. 947,144; Jan. 18; Sp. p. 4707; Gaz. vol. 150; p. 778.
Anderson, William W., Holly Springs, Miss. Apparatus for facilitating walking. No. 979,243; Dec. 20; Sp. p. 3980; Gaz. vol. 161; p. 685.
Andersson, Carl E., assignor to Aktiebolaget Eskilstuna Separator, Eskilstuna, Sweden. Pressure-burner with compressed mixing-pipe. No. 945,072; Jan. 4; Sp. p. 140; Gaz. vol. 150; p. 23.
Anderston Foundry Company Limited, The. (See Hatch, Frederick G., assignor.)
Andorfer, Antone W., Shinglehouse, Pa. Oil or gas burner. No. 970,363; Sept. 13; Sp. p. 2592; Gaz. vol. 158; p. 438.
Andrade, Cipriano, Jr., New York, N. Y. Windlass. No. 970,597; Sept. 20; Sp. p. 3091; Gaz. vol. 158; p. 538.
Andrade, Cipriano, Jr., New York, N. Y. Windlass. No. 971,716; Oct. 4; Sp. p. 426; Gaz. vol. 159; p. 74.
Andrade, Cipriano, Jr., New York, N. Y. Windlass. No. 972,982; Oct. 18; Sp. p. 3251; Gaz. vol. 159; p. 566.
Andrade, Cipriano, Jr., New York, N. Y. Windlass. No. 974,456; Nov. 1; Sp. p. 879; Gaz. vol. 160; p. 129.
Andrazyk, Thomas Q., Chicago, Ill. Latch for cut-out boxes. No. 497,404; Jan. 25; Sp. p. 5349; Gaz. vol. 150; p. 896.
Andre, Emanuel, Marinette, Wis. Cutter-guard. No. 961,198; June 14; Sp. p. 1940; Gaz. vol. 155; p. 351.
André, Henry J., Philadelphia, Pa. Mechanical movement. No. 945,835; Jan. 11; Sp. p. 1853; Gaz. vol. 150; p. 309.
Andreae, Emmeline, Hyde Park, London, England. Device for suspending curtains and the like. No. 954,369; Apr. 5; Sp. p. 1425; Gaz. vol. 153; p. 237.
Andreas, Frederick, and F. L. Schaab, St. Louis, Mo. Cooking utensil. No. 948,491; Feb. 8; Sp. p. 1502; Gaz. vol. 151; p. 265.
Andres, George F., assignor of one-half to T. D. Ulrich, Marion, Ohio. Tube-bender. No. 951,717; Mar. 8; Sp. p. 2520; Gaz. vol. 152; p. 438.
Andress, Samuel I., Mackinac Island, Mich. Steering-indicator. No. 969,084; Aug. 30; Sp. p. 6896; Gaz. vol. 157; p. 1201.
Andrew, Cecil D., London, England, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Indicating device for machine-tools. No. 961,281; June 14; Sp. p. 2124; Gaz. vol. 155; p. 380.
Andrew, James A. (See Hutchison and Andrew.)
Andrew, James T., Montgomery, Ala. Safety-switch. No. 949,693; Feb. 15; Sp. p. 3969; Gaz. vol. 151; p. 691.
Andrew, James T., Montgomery, Ala. Safety-wheel for railway-cars. No. 956,261; Apr. 26; Sp. p. 5591; Gaz. vol. 153; p. 975.
Andrew, James T., Montgomery, Ala. Safety appliance for railway-cars. No. 965,679; July 26; Sp. p. 5810; Gaz. vol. 156; p. 987.
Andrews, Aaron K., assignor to The Standard Steel Works Company, Burnham, Pa. Means for rolling wheels. No. 954,245; Apr. 5; Sp. p. 1171; Gaz. vol. 153; p. 195.
Andrews, Albert L., Boston, Mass. Pocket-bank. No. 963,200; July 5; Sp. p. 436; Gaz. vol. 156; p. 62.
Andrews, Alden C., Chicago, Ill. Scrubbing-machine. No. 967,301; Aug. 16; Sp. p. 3142; Gaz. vol. 157; p. 544.
Andrews-Burr Paper Company. (See Cummings, Henry H., assignor.)
Andrews, Charles, Jr., assignor to Andrews Wire & Iron Works, Rockford, Ill. Flour-sifter. No. 971,875; Oct. 4; Sp. p. 775; Gaz. vol. 159; p. 135.
Andrews, Edward P. S., West Windham, N. H. Torpedo-placer. No. 980,137; Dec. 27; Sp. p. 5909; Gaz. vol. 161; p. 1008.
Andrews, Frank C. (See Pennington and Andrews.)
Andrews, Frank K., Bishop, Cal. Display-box. No. 965,680; July 26; Sp. p. 5811; Gaz. vol. 156; p. 987.
Andrews, Fred G., Coraopolis, Pa. Window-lock. No. 975,818; Nov. 15; Sp. p. 3843; Gaz. vol. 160; p. 648.
Andrews, George C., Minneapolis, Minn. Heating plant. No. 946,911; Jan. 18; Sp. p. 4282; Gaz. vol. 150; p. 704.
Andrews, George E. (See Moffitt and Andrews.)
Andrews, George E., Philadelphia, Pa., assignor to The United States Chemical Company. Drainage-tube. No. 954,494; Apr. 12; Sp. p. 1712; Gaz. vol. 153; p. 307.
Andrews, James C. (See Titus, Clarkson, and Andrews.)
Andrews, James R., and J. W. Waldrum; said Waldrum assignor to C. Lucas, Sherman, Tex. Barrel-cover. No. 977,425; Dec. 6; Sp. p. 1; Gaz. vol. 161; p. 3.
Andrews, Lewis P., Sedalia, Mo. Meter-box. No. 950,270; Feb. 22; Sp. p. 5293; Gaz. vol. 151; p. 927.
Andrews, Louis J. (See Morrison and Andrews.)
Andrews, Ludwig J., Lindstrom, Minn. Mail-carrier's box. No. 968,633; Aug. 30; Sp. p. 5951; Gaz. vol. 157; p. 1048.
Andrews, Martin, Chicago, Ill. Automatic fire-extinguisher. No. 971,814; Oct. 4; Sp. p. 631; Gaz. vol. 159; p. 111.
Andrews, Mary, Stratton, Nebr. Egg-tester. No. 972,592; Oct. 11; Sp. p. 2371; Gaz. vol. 159; p. 404.

Alphabetical list of patentees—Continued.

Andrews, Orwen K., Clarksburg, assignor of one-third to C. E. White and one-third to W. S. O'Brien, Buckhannon, W. Va. Folding umbrella. No. 958,714; May 24; Sp. p. 4982; Gaz. vol. 154; p. 843.

Andrews, Oscar, assignor, by mesne assignments, to S. L. Andrews, Gloucester, Mass. Packing fish. No. 978,685; Dec. 13; Sp. p. 2745; Gaz. vol. 161; p. 468.

Andrews, Samuel S., and F. Turner, Fredericktown, Mo.; said Turner assignor to said Andrews. Metallic book-cover. No. 959,284; May 24; Sp. p. 6208; Gaz. vol. 154; p. 1037.

Andrews, Susanna L. (See Andrews, Oscar, assignor.)

Andrews, Thomas, Rockaway, N. J. Valve. No. 949,168; Feb. 15; Sp. p. 2916; Gaz. vol. 151; p. 517.

Andrews, Thomas, Rockaway, N. J. Tube-cleaner. No. 973,740; Oct. 25; Sp. p. 4886; Gaz. vol. 159; p. 849.

Andrews, Thomas G., Malden, Mass. Waste connection for washtubs. No. 967,483; Aug. 16; Sp. p. 3531; Gaz. vol. 157; p. 606.

Andrews, Truman J., Bemidji, Minn. Traction device for motor-vehicles. No. 968,914; Aug. 30; Sp. p. 6564; Gaz. vol. 157; p. 1143.

Andrews, Walter P., Jefferson, Tex. Apparatus for cooling journal-boxes on railway-trains. No. 955,743; Apr. 19; Sp. p. 4439; Gaz. vol. 153; p. 766.

Andrews, Warren H., Nebraska City, Nebr. Locking-turnbuckle. No. 950,424; Feb. 22; Sp. p. 5578; Gaz. vol. 151; p. 977.

Andrews Wire & Iron Works. (See Andrews, Charles, Jr., assignor.)

Andriano, Albert K., assignor to Direct-Line General Telephone Company, San Francisco, Cal. Telephone system and apparatus. No. 958,067; May 17; Sp. p. 3543; Gaz. vol. 154; p. 597.

Andro, Charles. (See Noguier, Paul, assignor.)

Andrus, Frank, assignor of one-half to M. Scott, Chicago, Ill. Fan-support. No. 979,405; Dec. 27; Sp. p. 4291; Gaz. vol. 161; p. 761.

Andrus, Frank W., Lincoln, Nebr. Station-indicator. No. 966,879; Aug. 9; Sp. p. 2274; Gaz. vol. 157; p. 373.

Anduaga, Manuel S. E., and H. Bourrelly, Lima, Peru. Wood bending and hardening machine. No. 966,983; Aug. 9; Sp. p. 2481; Gaz. vol. 157; p. 408.

Angelino, James C. (See Carlson, Osborn, and Angelino.)

Angell, Annie M. (See Angell, Eugene H., assignor.)

Angell, Eugene H., assignor of one-half to A. M. Angell, Berkeley, Cal. Wave-motor. No. 967,101; Aug. 9; Sp. p. 2726; Gaz. vol. 157; p. 449.

Angell, Henry H., Chicago, Ill. Inking device for type-writing machines. No. 952,091; Mar. 15; Sp. p. 3295; Gaz. vol. 152; p. 594.

Angell, John E., St. Louis, Mo. Water purifier and clarifier. No. 961,091; June 14; Sp. p. 1726; Gaz. vol. 155; p. 313.

Angell, John E., St. Louis, Mo. Purifying water. No. 965,148; July 26; Sp. p. 4647; Gaz. vol. 156; p. 805.

Angell, Otis R., Dorchester, Mass. Combined valve-grinder and drill. No. 977,258; Nov. 29; Sp. p. 7018; Gaz. vol. 160; p. 1193.

Anger, John E., Preston, England. Railway, tramway, and other vehicle. No. 960,145; May 31; Sp. p. 8059; Gaz. vol. 154; p. 1354.

Angert, Morris, New York, N. Y. Hand-rubber. No. 978,534; Dec. 13; Sp. p. 2407; Gaz. vol. 161; p. 415.

Angove, Joseph B., Rockford, assignor to Illinois Sewing Machine Company, Chicago, Ill. Shuttle-carrier for sewing-machines. No. 945,207; Jan. 4; Sp. p. 415; Gaz vol. 150; p. 69.

Angst, Thomas. (See Seessle, Gustav A., assignor.)

Angus, Arthur R., Neutral Bay, New South Wales, Australia. Running-gear of railway-cars. No. 964,479; July 19; Sp. p. 3129; Gaz. vol. 156; p. 545.

Angwin, Frank C., Parkville, Victoria, Australia. Merry-go-round. No. 963,495; July 5; Sp. p. 1065; Gaz. vol. 156; p. 162.

Anhaltzer, Henry, Pittsburg, Pa. Making a cereal breakfast food. No. 976,332; Nov. 22; Sp. p. 4974; Gaz. vol. 160; p. 847.

Ann Arbor Machine Company. (See Hanson, Hans J., assignor.)

Annable, Warren W., and J. W. FitzGerald, Grand Rapids, Mich. Fluid-compressor. No. 954,605; Apr. 12; Sp. p. 1944; Gaz. vol. 153; p. 344.

Annis, Charles C. (See Annis, George F. and C. C.)

Annis, George F. and C. C., Freedom, Okla. Automobile-tire. No. 962,729; June 28; Sp. p. 5271; Gaz. vol. 155; p. 920.

Anrep, Aleph, Helsingborg, Sweden. Cable-traction system for shiftable endless tracks. No. 971,654; Oct. 4; Sp. p. 301; Gaz. vol. 159; p. 54.

Anschütz-Kaempfe, Hermann, Kiel, Germany. Gyroscope. No. 973,611; Oct. 25; Sp. p. 4617; Gaz. vol. 159; p. 803.

Ansco Company. (See Bornmann, Carl, assignor.)

Ansley, John A., Thessalon, Ontario, Canada. Convertible box-car. No. 958,575; May 17; Sp. p. 4709; Gaz. vol. 154; p. 773.

Anson, Warren J., El Paso, Tex., assignor of one-third to H. C. Hucker and one-third to F. W. Bacon, Los Angeles, Cal. Dust and wind guard. No. 973,840; Oct. 25; Sp. p. 5090; Gaz. vol. 159; p. 884.

Anteau, Richard, Toledo, Ohio. Safety snap-hook. No. 951,041; Mar. 1; Sp. p. 1174; Gaz. vol. 152; p. 193.

Anthés, Maurice, London, England. Reproduction of images on glass, porcelain, ceramic, metallic, or other surfaces. No. 959,692; May 31; Sp. p. 7056; Gaz. vol. 154; p. 1198.

Anthony, Albert A., Bend, Oreg., and J. J. Anthony, Moscow, Idaho. Centering-machine. No. 945,256; Jan. 4; Sp. p. 522; Gaz. vol. 150; p. 86.

Anthony, Charles H., St. James, Mo. Mail-bag catcher and deliverer. No. 952,861; Mar. 22; Sp. p. 4915; Gaz. vol. 152; p. 885.

Anthony, Daniel, Greenwich, Conn. Shutter or fire-shield worker. No. 979,244; Dec. 20; Sp. p. 3982; Gaz. vol. 161; p. 686.

Anthony, David S., assignor of one-third to E. Williams and one-third to G. F. Habernigg, Durango, Mexico. Apparatus for cleaning gas. No. 971,481; Sept. 27; Sp. p. 4914; Gaz. vol. 158; p. 861.

Anthony, David S., assignor of one-third to E. Williams and one-third to G. F. Habernigg, Durango, Mexico. Starter for internal-combustion engines. No. 971,482; Sept. 27; Sp. p. 4916; Gaz. vol. 158; p. 861.

Anthony, Frank A., and J. P. Cregg, Amsterdam, N. Y. Bottle-closure. No. 956,923; May 3; Sp. p. 921; Gaz. vol. 154; p. 146.

Anthony, Frederick E., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Screw-cutting attachment. No. 945,901; Jan. 11; Sp. p. 2002; Gaz. vol. 150; p. 332.

Anthony, John A., Charleston, S. C. Air-brake-release valve. No. 950,425; Feb. 22; Sp. p. 5579; Gaz. vol. 151; p. 978.

Anthony, John H. R. (See Rosenwald and Anthony.)

Anthony, John J. (See Anthony, Albert A. and J. J.)

Anthony, John T., Fulton, Miss. Churn. No. 970,676; Sept. 20; Sp. p. 3291; Gaz. vol. 158; p. 566.

Anthony, Joseph B., and R. M. Morris, Clarendon, Tex. Water-valve. No. 955,036; Apr. 12; Sp. p. 2920; Gaz. vol. 153; p. 494.

Anthony, Joseph G., Detroit, Mich. Automobile-tire protector. No. 964,363; July 12; Sp. p. 2882; Gaz. vol. 156; p. 476.

Anthony, Marcus O. (See Rhein and Anthony.)

Anthony, Mark, Streator, Ill. Chair. No. 945,149; Jan. 4; Sp. p. 288; Gaz. vol. 150; p. 50.

Anthony, Russell, San Angelo, Tex. Well-drill machine. No 945,437; Jan. 4; Sp. p. 929; Gaz. vol. 150; p. 145.

Anthracite Separator Company. (See Blatch, Francis H., assignor.)

Anthracite Separator Company. (See Pardee, Frank, assignor.)

Anthracoke Company, The. (See Maul, August G., assignor.)

Antis, John H. (See Coates, Raymond, assignor.)

Antisdale, Edwin S., Chicago, Ill. Book-holder. No. 945,257; Jan. 4; Sp. p. 524; Gaz. vol. 150; p. 86.

Antisell, Frank L. (See Blair and Antisell.)

Antisell, Frank L. (See Clark and Antisell.)

Antisell, Frank L., New York, N. Y. Producing alloyed steel. No. 951,385; Mar. 8; Sp. p. 1881; Gaz. vol. 152; p. 328.

Antonucci, Eugene, assignor to Millinery and Decorating Supply Company, Buffalo, N. Y. Artificial flower. No. 970,413; Sept. 13; Sp. p. 2688; Gaz. vol. 158; p. 454.

Antrim, David H., *et al.* (See Hale, John R., assignor.)

Apel, Frederick H. (See Merkley, Apel, and Merkley.)

Apgar, Marshall F., assignor to Taylor Iron & Steel Company, High Bridge, N. J. Swinging grinder. No. 955,626; Apr. 19; Sp. p. 4169; Gaz. vol. 153; p. 726.

Apgar, Peter E., Camden, N. J., and J. J. Silk, Philadelphia, Pa. Hydrant. No. 977,426; Dec. 6; Sp. p. 2; Gaz. vol. 161; p. 3.

Apjohn, James H., London, England. Change-speed gearing. No. 945,836; Jan. 11; Sp. p. 1855; Gaz. vol. 150; p. 309.

Apollo Artificial Stone Company. (See Henderson, John C., assignor.)

Appel, Daniel, Cleveland, assignor to The Advance Bag Company, Middletown, Ohio. Paper-bag machine. No. 945,485; Jan. 4; Sp. p. 1021; Gaz. vol. 150; p. 160.

Appelberg, Axel O., Schenectady, N. Y., assignor to General Electric Company. Vacuum resistance-furnace. No. 953,774; Apr. 5; Sp. p. 182; Gaz. vol. 153; p. 34.

Appelgvist, Gunnar S. A. (See Olsson, Zacharias, assignor.)

Appinger, Johann F., assignor to Automobilwerke Union Actiengesellschaft, Nuremberg, Germany. Change-speed mechanism. No. 968,519; Aug. 30; Sp. p. 5713; Gaz. vol. 157; p. 1007.

Apple, Vincent G., Dayton, Ohio. Insulated battery-cell. No. 954,370; Apr. 5; Sp. p. 1427; Gaz. vol. 153; p. 238.

Apple, Vincent G., Dayton, Ohio. Storage battery. No. 959,192; May 24; Sp. p. 6024; Gaz. vol. 154; p. 1007.

Apple, Vincent G., Dayton, Ohio. Current-regulator. No. 965,059; July 19; Sp. p. 4467; Gaz. vol. 156; p. 744.

Apple, Vincent G., Dayton, Ohio. Automatic cut-out. No. 968,310; Aug. 23; Sp. p. 5280; Gaz. vol. 157; p. 910.

Apple, Vincent G., Dayton, Ohio. Battery-carrier. No. 971,876; Oct. 4; Sp. p. 776; Gaz. vol. 159; p. 135.

Alphabetical list of patentees—Continued.

Apple, Vincent G., Dayton, Ohio. Power-transmission device. No. 980,044; Dec. 27; Sp. p. 5678; Gaz. vol. 161; p. 977.
Appleby, John F., Chicago, Ill. Cotton-picking machine. No. 972,795; Oct. 18; Sp. p. 2788; Gaz. vol. 159; p. 498.
Appleby, John F., Chicago, Ill. Cotton-picking machine. No. 977,155; Nov. 29; Sp. p. 6808; Gaz. vol. 160; p. 1157.
Appleby, Joseph, Aston, near Birmingham, England. Caster and the like. No. 967,152; Aug. 16; Sp. p. 2850; Gaz. vol. 157; p. 493.
Appleton, Albert I., Chicago, Ill., and O. C. Hoffmann, Buffalo, N. Y., assignors to Chicago Fuse Wire & Manufacturing Company, Chicago, Ill. Outlet-box. No. 950,502; Mar. 1; Sp. p. 92; Gaz. vol. 152; p. 15.
Appleton, Alford C., Dayton, Ohio, assignor to The Hayner Distilling Company. Bottle-stopper. No. 972,492; Oct. 11; Sp. p. 2112; Gaz. vol. 159; p. 368.
Appleton, Alford C., Dayton, Ohio, assignor to The Hayner Distilling Company. Bottle-stopper. No. 972,493; Oct. 11; Sp. p. 2115; Gaz. vol. 159; p. 368.
Appliance and Electric Device Company. (See Shoenberg and Marsh, assignors.)
Arabol Manufacturing Company, The. (See Muller-Jacobs and Bernhardi, assignors.)
Arabol Manufacturing Company, The. (See Supf, Frederick, assignor.)
Aray, Lanxton, Detroit, Mich. Book-mark. No. 975,924; Nov. 15; Sp. p. 4063; Gaz. vol. 160; p. 685.
Arbecam Nautical Instrument Co. (See How, Benjamin V., assignor.)
Arbecam Nautical Instrument Co. (See Huntington, Robert, assignor.)
Arbetter Felling Machine Company. (See Arbetter, Wolf, assignor.)
Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Sewing-machine for felling. No. 969,740; Sept. 6; Sp. p. 1260; Gaz. vol. 158; p. 202.
Arbib, Arthur. (See Squadrilli, Eduardo, assignor.)
Arbogast, John I., assignor of one-half to H. L. Collins, Pittsburg, Pa. Producing wire-glass articles and vessels. No. 960,146; May 31; Sp. p. 8062; Gaz. vol. 154; p. 1355.
Arbuckle, Alexander J., Johannesburg, Transvaal. Means for separating comminuted ores or other solid matter from liquids. No. 958,068; May 17; Sp. p. 3549; Gaz. vol. 154; p. 598.
Arbuckle, Harrison R., Wanette, Okla. Animal-trap. No. 965,618; July 26; Sp. p. 5684; Gaz. vol. 156; p. 966.
Arc Spark Mfg. Co. (See Wideen, Knut C., assignor.)
Arcade Manufacturing Company. (See Tscherning, Henry, assignor.)
Archambault, Alexandre, *et al.* (See Marchand, Omer, assignor.)
Archambault, Leda L., *et al.* (See Marchand, Omer, assignor.)
Archbald, Charles E., New Brunswick, N. J. Carbon-sheet holder. No. 978,807; Dec. 13; Sp. p. 2982; Gaz. vol. 161; p. 505.
Archbold-Brady Company. (See Allen, Robert L., assignor.)
Archdeacon, John, Carlisle, Ky. Hand street-oiler. No. 970,290; Sept. 13; Sp. p. 2457; Gaz. vol. 158; p. 414.
Archer-Burton, Mary E., Berlin, Md. Skirt-evener. No. 972,593; Oct. 11; Sp. p. 2372; Gaz. vol. 159; p. 405.
Archer, Calvert B., Milford, Mass. Pocket pneumatic cushion. No. 969,439; Sept. 6; Sp. p. 609; Gaz. vol. 158; p. 97.
Archer, David J., Toronto, Ontario, Canada. Hot-water furnace. No. 946,310; Jan. 11; Sp. p. 2867; Gaz. vol. 150; p. 475.
Archer, Eskew H. (See Bustard, Paul, assignor.)
Archer, James, Nottingham, England. Variable gear and brake mechanism. No. 954,664; Apr. 12; Sp. p. 2088; Gaz. vol. 153; p. 366.
Archer, James, Nottingham, England. Variable-speed gear. No. 954,665; Apr. 12; Sp. p. 2090; Gaz. vol. 153; p. 366.
Archer, William H., Toledo, Ohio. Grinder. No. 969,741; Sept. 6; Sp. p. 1267; Gaz. vol. 158; p. 203.
Archibald, William H., assignor of one-half to E. E. Samson, Vernon, British Columbia, Canada. Hand-truck. No. 979,053; Dec. 20; Sp. p. 3531; Gaz. vol. 161; p. 617.
Arco, Georg von, Berlin, Germany. Portable station for wireless telegraphy. No. 958,209; May 17; Sp. p. 3828; Gaz. vol. 154; p. 647.
Arco, Georg von, Berlin, Germany. Aerial conductor arrangement for wireless telegraphy. No. 959,100; May 24; Sp. p. 5830; Gaz. vol. 154; p. 977.
Ardizone, Thomas F., New York, N. Y. Stenciling and marking pot. No. 954,371; Apr. 5; Sp. p. 1429; Gaz. vol. 153; p. 238.
Arduino, Pietro T., Turin, Italy. Apparatus for heating liquids. No. 946,311; Jan. 11; Sp. p. 2870; Gaz. vol. 150; p. 476.
Arends, George, Maywood, N. J., assignor to Eagle Pencil Company, New York, N. Y. Mechanical pencil. No. 948,124; Feb. 1; Sp. p. 712; Gaz. vol. 151; p. 117.
Arens, August, assignor to P. & F. Corbin, New Britain, Conn. Knob construction. No 949,967; Feb. 22; Sp. p. 4605; Gaz. vol. 151; p. 822.
Arens, August, assignor to P. & F. Corbin, New Britain, Conn. Hotel-lock. No. 950,315; Feb. 22; Sp. p. 5373; Gaz. vol. 151; p. 943.
Arens, August, assignor to P. & F. Corbin, New Britain, Conn. Entrance-door lock. No. 959,834; May 31; Sp. p. 7366; Gaz. vol. 154; p. 1247.
Arens, August, assignor to P. & F. Corbin, New Britain, Conn. Asylum-lock. No. 962,875; June 28; Sp. p. 5558; Gaz. vol. 155; p. 972.
Arens, August, assignor to P. & F. Corbin, New Britain, Conn. Entrance-door lock. No. 971,340; Sept. 27; Sp. p. 4663; Gaz. vol. 158; p. 815.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Hotel-lock. No. 958,352; May 17; Sp. p. 4271; Gaz. vol. 154; p. 697.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Latch mechanism for emergency-doors. No. 958,353; May 17; Sp. p. 4278; Gaz. vol. 154; p. 698.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Panic-bolt. No. 961,092; June 14; Sp. p. 1729; Gaz. vol. 155; p. 314.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Door-stop. No. 976,138; Nov. 22; Sp. p. 4505; Gaz. vol. 160; p. 781.
Arents, George, Jr., *et al.* (See Tyberg, Oluf, assignor.)
Arents, George, Jr., *et al.* (See Tyberg and Lake, assignors.)
Argles, Guy A. L., Newmarket, assignor of two-thirds to C. G. Dunn, Toronto, Ontario, Canada. Recording-nest for poultry. No. 949,610; Feb. 15; Sp. p. 3821; Gaz. vol. 151; p. 666.
Argo, Ida M., Dallas, Tex. Catamenial bandage. No. 979,730; Dec. 27; Sp. p. 5000; Gaz. vol. 161; p. 873.
Ariston Piano-Player Company. (See French and O'Brien, assignors.)
Arkansas Corrugated Metal Culvert Company, The. (See Fouts, Calvin C., assignor.)
Arkon Carbon Co. (See Smith, Jerome, assignor.)
Arlitz, Oscar C., New York, N. Y. Mechanical horn. No. 979,245; Dec. 20; Sp. p. 3984; Gaz. vol. 161; p. 686.
Arlitz, Oscar C., New York, N. Y. Mechanical horn. No. 979,246; Dec. 20; Sp. p. 3989; Gaz. vol. 161; p. 687.
Armac Motor Company. (See Keller, Edwin W., assignor.)
Armbruster, Charles A., *et al.* (See Smith, Christian N., assignor.)
Armbruster, Jakob, Soltau, Germany. Lasting-machine. No. 950,218; Feb. 22; Sp. p. 5181; Gaz. vol. 151; p. 909.
Armington, John R., Roanoke, Va. Water-heater. No. 962,294; June 21; Sp. p. 4318; Gaz. vol. 155; p. 745.
Armistead, William E., Sandersville, Ga. Ice-making apparatus. No. 967,302; Aug. 16; Sp. p. 3143; Gaz. vol. 157; p. 544.
Armitage, Herbert S., and D. J. Stephens, Briston, Mont. Hay-stacker. No. 959,906; May 31; Sp. p. 7523; Gaz. vol. 154; p. 1271.
Armor, Herbert S., and L. C. Collner, St. Petersburg, Pa. Brush-cleaning device for carpet-sweepers. No. 949,694; Feb. 15; Sp. p. 3971; Gaz. vol. 151; p. 692.
Armour & Company. (See Perrigo, Edwin B., assignor.)
Armspear Manufacturing Company. (See Spear, Furman D., assignor.)
Armstead, Frank C., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Mechanical stoker for furnaces. No. 957,296; May 10; Sp. p. 1735; Gaz. vol. 154; p. 303.
Armstead, Michael J., Lowell, assignor to Draper Company, Hopedale, Mass. Fork-grid clearer for looms. No. 973,741; Oct. 25; Sp. p. 4887; Gaz. vol. 159; p. 849.
Armstead, Robert L., Sprague, W. Va. Nut-lock. No. 974,107; Nov. 1; Sp. p. 1; Gaz. vol. 160; p. 3.
Armstrong, Archibald, Waterville, Me. Dust-pan. No. 961,199; June 14; Sp. p. 1942; Gaz. vol. 155; p. 351.
Armstrong Brothers Tool Company, The. (See Armstrong, James, assignor.)
Armstrong, Charles C., Marysville, Ohio. Screen. No. 946,312; Jan. 11; Sp. p. 2873; Gaz. vol. 150; p. 476.
Armstrong, Charles G., Orange, N. J. Pressure-reducer. No. 977,427; Dec. 6; Sp. p. 4; Gaz. vol. 161; p. 3.
Armstrong, Charles G., assignor of one-half to W. E. D. Stokes, New York, N. Y. Elevator. No. 968,634; Aug. 30; Sp. p. 5952; Gaz. vol. 157; p. 1048.
Armstrong, Charles M., Boonville, Ind. Hoisting-platform. No. 959,835; May 31; Sp. p. 7368; Gaz. vol. 154; p. 1248.
Armstrong Cork Company. (See Busch, Herman F., assignor.)
Armstrong Cork Company. (See Gillette, George H., assignor.)
Armstrong Cork Company. (See Lowman, John, assignor.)
Armstrong, Edwin J., Erie, Pa. Steam-engine valve. No. 946,000; Jan. 11; Sp. p. 2212; Gaz. vol. 150; p. 367.
Armstrong, Edwin J., Erie, Pa. Rod-packing. No. 946,001; Jan. 11; Sp. p. 2213; Gaz. vol. 150; p. 367.

Alphabetical list of patentees—Continued.

Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Steam-engine. No. 946,094; Jan. 11; Sp. p. 2394; Gaz. vol. 150; p. 398.

Armstrong, Ernest, Camden, N. J., assignor, by mesne assignments, to Journal Lubricator Company, New York, N. Y. Axle-lubricating device. (Reissue.) No. 13,167; Nov. 15; Sp. p. 4496; Gaz. vol. 160; p. 758.

Armstrong, Frank H., Vulcan, Mich. Starter for gas-engines. No. 945,738; Jan. 11; Sp. p. 1614; Gaz. vol. 150; p. 273.

Armstrong, Frank I., Hamilton, Ontario, Canada. Refrigerator. No. 948,464; Feb. 8; Sp. p. 1431; Gaz. vol. 151; p. 256.

Armstrong, Frank S., Jr., assignor of one-half to R. Gottlieb, Greensburg, Pa. Self-lubricating pit-car wheel. No. 977,360; Nov. 29; Sp. p. 7234; Gaz. vol. 160; p. 1228.

Armstrong, Harry Y., Elgin, Ill. Gum-breaking machine. No. 954,773; Apr. 12; Sp. p. 2340; Gaz. vol. 153; p. 404.

Armstrong, Harry Y., Elgin, Ill. Mechanism for cutting sheets or wrappers from strips. No. 978,535; Dec. 13; Sp. p. 2409; Gaz. vol. 161; p. 415.

Armstrong, Harry Y., Elgin, Ill. Mechanism for cutting wrappers from strips. No. 979,406; Dec. 27; Sp. p. 4293; Gaz. vol. 161; p. 762.

Armstrong, James, Kansas City, Mo. Fastening for vault-covers. No. 947,584; Jan. 25; Sp. p. 5760; Gaz. vol. 150; p. 957.

Armstrong, James, Maywood, assignor to The Armstrong Brothers Tool Company, Chicago, Ill. Nurling-tool. No. 960,769; June 7; Sp. p. 1078; Gaz. vol. 155; p. 180.

Armstrong, James E. (See Eddleman and Armstrong.)

Armstrong, James S., assignor to Farnsworth Company, Lisbon, Me. Bleaching union cotton and wool goods. No. 977,848; Dec. 6; Sp. p. 931; Gaz. vol. 161; p. 147.

Armstrong, John R., assignor to The O. K. Nut Lock Company, Providence, R. I. Nut-lock. No. 975,011; Nov. 8; Sp. p. 2128; Gaz. vol. 160; p. 347.

Armstrong, John R., assignor to The O. K. Nut Lock Company, Providence, R. I. Nut-lock. No. 975,012; Nov. 8; Sp. p. 2130; Gaz. vol. 160; p. 347.

Armstrong, Josiah B. C., Kaufman, Tex. Middle-breaker and turning-plow. No. 945,010; Jan. 4; Sp. p. 1; Gaz. vol. 150; p. 3.

Armstrong, Lyman P., San Jose, Cal. Combined cupboard and table-closet. No. 947,985; Feb. 1; Sp. p. 431; Gaz. vol. 151; p. 69.

Armstrong, Lyman P., San Jose, Cal. Window-bed. No. 971,016; Sept. 27; Sp. p. 3990; Gaz. vol. 158; p. 709.

Armstrong, Otto. (See Holsey, Arthur, assignor.)

Armstrong, Ralph W., assignor to The Gray National Telautograph Company, New York, N. Y. Telautograph. No. 978,128; Dec. 13; Sp. p. 1547; Gaz. vol. 161; p. 275.

Armstrong, Richard W., Parkers Landing, Pa. Wrench. No. 957,726; May 10; Sp. p. 2594; Gaz. vol. 154; p. 449.

Armstrong, Russell L., *et al.* (See De Forrest, Charles E., assignor.)

Armstrong, Victor C., assignor to The Rail Joint Company, New York, N. Y. Compromise rail-joint. No. 950,588; Mar. 1; Sp. p. 259; Gaz. vol. 152; p. 43.

Armstrong, Warren J. (See Huxhold, John C., assignor.)

Armstrong, William B., Sigourney, Iowa. Catching and holding device. No. 951,671; Mar. 8; Sp. p. 2455; Gaz. vol. 152; p. 425.

Armstrong, William F., assignor of one-eighth to B. A. McNally, Pittsburg, Pa. Printing device. No. 946,313; Jan. 11; Sp. p. 2874; Gaz. vol. 150; p. 476.

Armstrong, William P., assignor of one-half to J. I. Garrison, Washington, D. C. Exercising device. No. 952,862; Mar. 22; Sp. p. 4917; Gaz. vol. 152; p. 885.

Arndt, William, Goshen, Ind. Steel-rail joint. No. 965,429; July 26; Sp. p. 5250; Gaz. vol. 156; p. 898.

Arndt, William T., Shreveport, La. Electrical switch. No. 945,011; Jan. 4; Sp. p. 2; Gaz. vol. 150; p. 3.

Arndts, Joseph, Paderborn, Germany. Making durable solutions of peroxid of hydrogen. No. 946,529; Jan. 18; Sp. p. 3433; Gaz. vol. 150; p. 577.

Arnet, Orla A., Woodland, Mich. Automobile sled. No. 970,008; Sept. 13; Sp. p. 1873; Gaz. vol. 158; p. 319.

Arney, John W., Mendon, assignor to Arney Specialty Company, Port Huron, Mich. Toy vehicle. No. 947,780; Feb. 1; Sp. p. 4; Gaz. vol. 151; p. 3.

Arney Specialty Company. (See Arney, John W., assignor.)

Arnheiter, Louis, Jersey City, N. J. Airship. No. 958,460; May 17; Sp. p. 4494; Gaz. vol. 154; p. 735.

Arnn, Albert, Little Ferry, N. J. False work for building construction. No. 962,295; June 21; Sp. p. 4320; Gaz. vol. 155; p. 745.

Arnold, Alexander, *et al.* (See Rapp, William J., assignor.)

Arnold, Arthur H., Central, S. C. Vending apparatus. No. 948,914; Feb. 8; Sp. p. 2383; Gaz. vol. 151; p. 406.

Arnold, Arthur W., assignor to Safety and Economy Damper Company, Portland, Oreg. Automatic damper. No. 970,598; Sept. 20; Sp. p. 3094; Gaz. vol. 158; p. 539.

Arnold, Arthur W., assignor to Safety and Economy Damper Company, Portland, Oreg. Automatic fire-governor. No. 970,599; Sept. 20; Sp. p. 3096; Gaz. vol. 158; p. 540.

Arnold, Clarence F. (See Hancock and Arnold.)

Arnold, Edwin E., Wilkinsburg, Pa., assignor to The Westinghouse Machine Company. Turbine-governing mechanism. No. 954,011; Apr. 5; Sp. p. 647; Gaz. vol. 153; p. 116.

Arnold, Egmont B., Milwaukee, Wis. Publication-binder. No. 948,125; Feb. 1; Sp. p. 713; Gaz. vol. 151; p. 117.

Arnold, Engelbert, Karlsruhe, Germany, and J. L. la Cour, Edinburgh, Scotland. Arrangement for starting and regulating the speed of alternating-current motors. No. 963,678; July 5; Sp. p. 1422; Gaz. vol. 156; p. 223.

Arnold, Engelbert, Karlsruhe, Germany, and J. L. la Cour, Vesteras, Sweden. Electric motor. No. 970,412; Sept. 13; Sp. p. 2685; Gaz. vol. 158; p. 454.

Arnold, Ezra P., Rockland, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 946,591; Jan. 18; Sp. p. 3533; Gaz. vol. 150; p. 595.

Arnold, Frederick H., Reading, Pa. Combined safety-razor and stropper. No. 948,034; Feb. 1; Sp. p. 534; Gaz. vol. 151; p. 86.

Arnold, Frederick M., Canandaigua, N. Y. Loading apparatus. No. 964,364; July 12; Sp. p. 2883; Gaz. vol. 156; p. 476.

Arnold, Frederick T., Fort Robinson, Nebr. Mixing-machine. No. 966,639; Aug. 9; Sp. p. 1721; Gaz. vol. 157; p. 293.

Arnold, George W., Girard, Ohio. Truss-pad. No. 960,481; June 7; Sp. p. 477; Gaz. vol. 155; p. 80.

Arnold, Harry B., assignor to National Spring Bed Company, New Britain, Conn. Extension-bedstead. No. 949,291; Feb. 15; Sp. p. 3166; Gaz. vol. 151; p. 558.

Arnold, Harry B., assignor to The National Spring Bed Company, New Britain, Conn. Folding bed. No. 977,696; Dec. 6; Sp. p. 628; Gaz. vol. 161; p. 95.

Arnold, Henry A., Lake Geneva, Wis. Manure-spreader. No. 973,742; Oct. 25; Sp. p. 4889; Gaz. vol. 159; p. 850.

Arnold, Henry B., Big Spring, Tex. Double-acting pump. No. 969,127; Aug. 30; Sp. p. 6995; Gaz. vol. 157; p. 1216.

Arnold, Henry W. (See Hanson and Arnold.)

Arnold, Howard B., and F. A. Bootes, Dayton, Ohio. Roofing-tile. No. 953,939; Apr. 5; Sp. p. 507; Gaz. vol. 153; p. 92.

Arnold, John. (See Boswell, William C., assignor.)

Arnold, Lloyd L., North Tazewell, Va. Axle-lubricator. No. 949,670; Feb. 15; Sp. p. 3921; Gaz. vol. 151; p. 684.

Arnold, Max O., Neustadt, near Coburg, Germany. Talking-machine. No. 969,239; Sept. 6; Sp. p. 199; Gaz. vol. 158; p. 32.

Arnold, Nelson B., Westfield, N. J. Paint composition. No. 952,863; Mar. 22; Sp. p. 4919; Gaz. vol. 152; p. 885.

Arnold, Oscar C., Independence, Mo. Twine-cutter. No. 967,303; Aug. 16; Sp. p. 3146; Gaz. vol. 157; p. 544.

Arnold, Philip C., assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Bell-support. No. 956,664; May 3; Sp. p. 337; Gaz. vol. 154; p. 56.

Arnold, Price, Fort Worth, Tex. Heating-drum. No. 966,293; Aug. 2; Sp. p. 951; Gaz. vol. 157; p. 151.

Arnold, Samuel S., Toronto, Ontario, Canada. Buckle. No. 963,201; July 5; Sp. p. 438; Gaz. vol. 156; p. 62.

Arnold, Wilber E., Madisonville, assignor to The Victor Safe & Lock Company, Cincinnati, Ohio. Vault and strong-room door. No. 955,933; Apr. 26; Sp. p. 4862; Gaz. vol. 153; p. 860.

Arnold, William B. (See Dunn, George F., assignor.)

Arnold, William H., Oakland, Cal. Wheel-bearing. No. 946,891; Jan. 18; Sp. p. 4234; Gaz. vol. 150; p. 697.

Arnold, William H., Luther, Fla. Plow-frame. No. 968,107; Aug. 23; Sp. p. 4831; Gaz. vol. 157; p. 839.

Arnold, William K., Pittsburg, Pa. Water-gage. No. 965,356; July 26; Sp. p. 5095; Gaz. vol. 156; p. 875.

Arnold, William W., Hamilton, Ohio. Electrical illuminating-sign. No. 978,828; Dec. 20; Sp. p. 3020; Gaz. vol. 161; p. 538.

Arnone, Cyrus, New York, N. Y. Shaving-cup. No. 970,779; Sept. 20; Sp. p. 3524; Gaz. vol. 158; p. 603.

Arnott, Robert F., Montclair, N. J. Power-operated hammer. No. 961,384; June 14; Sp. p. 2350; Gaz. vol. 155; p. 415.

Arnoudts, Charles, Guatemala, Guatemala. Blasting-powder. No. 964,365; July 12; Sp. p. 2885; Gaz. vol. 156; p. 476.

Arnsdorff, Julius A., Knox, Ind. Display device. No. 951,718; Mar. 8; Sp. p. 2522; Gaz. vol. 152; p. 439.

Aron, Hermann, Charlottenburg, Germany, assignor to The American Aron Electricity Meter Company. Prepayment electricity-meter. No. 957,534; May 10; Sp. p. 2216; Gaz. vol. 154; p. 383.

Aron, Hermann, Charlottenburg, Germany, assignor to The American Aron Electricity Meter Company. Prepayment electricity-meter. No. 957,535; May 10; Sp. p. 2221; Gaz. vol. 154; p. 384.

Aron, Hermann, Charlottenburg, Germany, assignor to The American Aron Electricity Meter Company. Electricity-meter. No. 979,635; Dec. 27; Sp. p. 4793; Gaz. vol. 161; p. 841.

Aron, Hermann, and O. Runge, Charlottenburg, Germany; said Runge assignor to said Aron. Taximeter. No. 950,461; Feb. 22; Sp. p. 5632; Gaz. vol. 151; p. 988.

Aronson, Louis V., Newark, N. J. Pocket-lighter. No. 965,149; July 26; Sp. p. 4649; Gaz. vol. 156; p. 805.

Aronson, Louis V., Newark, N. J. Lighting appliance. No. 966,153; Aug. 2; Sp. p. 660; Gaz. vol. 157; p. 105.

Arp, William C., F. F. Hildreth, and F. N. Rumbley, Terre Haute, Ind. Universal controlling-valve. No. 948,571; Feb. 8; Sp. p. 1672; Gaz. vol. 151; p. 291.
Arpin, Daniel J., Grand Rapids, Mich. Scraper. No. 969,764; Sept. 13; Sp. p. 1329; Gaz. vol. 158; p. 235.
Arps, Henry, Rogers, Nebr. Sand-cleaning machine. No. 966,294; Aug. 2; Sp. p. 952; Gaz. vol. 157; p. 151.
Arrant, William E., Tampa, Fla. Mop attachment. No. 973,612; Oct. 25; Sp. p. 4621; Gaz. vol. 159; p. 803.
Arras, Walter H. (See Gross, Harry E., assignor.)
Arrenbrecht, John, Salem, Ohio. Nut-lock. No. 972,796; Oct. 18; Sp. p. 2789; Gaz. vol. 159; p. 498.
Arriaga, Juan N., Mexico, Mexico. Eyepiece for magnifying instruments. No. 967,143; Aug. 9; Sp. p. 2827; Gaz. vol. 157; p. 464.
Arrington, G. M. (See Noell, Charles H., assignor.)
Arrow Electric Company. (See Marshall, Norman, assignor.)
Arrow Electric Company, The. (See Perkins, Charles G., assignor.)
Arrow Electric Company, The. (See Peterson, Johann G., assignor.)
Arsac, Jean B., Le Puy, France. Safety device for antirefillable bottles. No. 956,750; May 3; Sp. p. 530; Gaz. vol. 154; p. 86.
Arsem, William C., Schenectady, N. Y., assignor to General Electric Company. Chemical process. No. 979,363; Dec. 20; Sp. p. 4202; Gaz. vol. 161; p. 724.
Art Metal Construction Company. (See Ekedahl, Erik A., assignor.)
Art Metal Construction Company. (See Ohnstrand, Enoch, assignor.)
Art Metal Construction Co. (See Sampson and Welham, assignors.)
Art Metal Construction Company. (See Stearns, Lincoln M., assignor.)
Arter, James G., assignor of two-fifths to E. E. Hertzler, Pittsburg, Pa. Switch. No. 947,607; Jan. 25; Sp. p. 5808; Gaz. vol. 150; p. 965.
Arter, John G., Cleveland, assignor to T. Kundtz, Lakewood, Ohio. Folding seat. No. 945,208; Jan. 4; Sp. p. 418; Gaz. vol. 150; p. 69.
Arthur, Alexander, Buffalo, N. Y. Furnace. No. 967,876; Aug. 23; Sp. p. 4315; Gaz. vol. 157; p. 761.
Arthur, Charles, Eureka, Cal. Combined oil-can and lubricator. No. 976,333; Nov. 22; Sp. p. 4976; Gaz. vol. 160; p. 847.
Arthur Colton Co. (See Colton and Scott, assignors.)
Arthur, George, Chicago, Ill. Egg-tester. No. 962,876; June 28; Sp. p. 5560; Gaz. vol. 155; p. 973.
Arthur, George P., Midland, Tex. Cotton-chopper. No. 951,876; Mar. 15; Sp. p. 2891; Gaz. vol. 152; p. 523.
Arthur, Richard S., Newark, N. J., assignor of one-half to L. R. Lantz, Wyalusing, Pa. Dilator. No. 972,983; Oct. 18; Sp. p. 3255; Gaz. vol. 159; p. 566.
Artice Ice Machine Company, The. (See Neff, Cole, and Ebersole, assignors.)
Artista Piano Player Company. (See Turney, Eugene T., assignor.)
Artner, Carl, Milwaukee, Wis. Shaker. No. 950,088; Feb. 22; Sp. p. 4914; Gaz. vol. 151; p. 864.
Artz, Scarff B., Osborn, Ohio. Marker for corn-planters. No. 976,771; Nov. 22; Sp. p. 5918; Gaz. vol. 160; p. 999.
Arundel, Hubert. (See Higginson and Arundel, assignors.)
Arvidson, Carl G. (See Johnson and Arvidson.)
Arvidsson, Per M. (See Eriksson and Arvidsson.)
Arzano, Corrado. (See Monge and Arzano.)
Arzt, Louis H., Philadelphia, Pa. Window-cleaner. No. 954,158; Apr. 5; Sp. p. 983; Gaz. vol. 153; p. 166.
Arzt, Traugott F., West Manchester, N. H. Picker-stick. No. 970,979; Sept. 20; Sp. p. 3915; Gaz. vol. 158; p. 669.
Asay, Edward F. (See Knobel and Asay.)
Asbury, Orla F., assignor of one-half to D. A. Tompkins, Charlotte, N. C. Arc-lamp safety device. No. 977,774; Dec. 6; Sp. p. 782; Gaz. vol. 161; p. 121.
Asbury, William, assignor to Square Deal Machine Co., New York, N. Y. Vending-machine. No. 948,838; Feb. 8; Sp. p. 2244; Gaz. vol. 151; p. 381.
Asbury, William, assignor to Square Deal Machine Co., New York, N. Y. Coin-director for vending-machines. No. 957,135; May 3; Sp. p. 1349; Gaz. vol. 154; p. 216.
Aschenbrener, Fredrick C., assignor of one-fourth to himself, one-half to J. C. Seyl, and one-fourth to O. H. E. Fritz, Chicago, Ill. Incandescent-lamp socket. No. 948,754; Feb. 8; Sp. p. 2075; Gaz. vol. 151; p. 353.
Aschenbrenner, Albert. (See Burger and Aschenbrenner.) (Reissue.)
Ascher, Samuel, *et al.* (See Cherry, Albert B., assignor.)
Ascue, Elbert, Blum, assignor of one-third to R. H. Crank, Cleburne, Tex. Sheep-shears. No. 958,069; May 17; Sp. p. 3553; Gaz. vol. 154; p. 599.
Aselstine, Roy K., and G. W. Langdon, Ottawa, Ontario, Canada. Garment-creaser. No. 966,640; Aug. 9; Sp. p. 1724; Gaz. vol. 157; p. 294.
Ash, George D. (See Perry, Charles H., assignor.)
Ash, William M. (See Morgan, Atwater, Crowther, and Ash.)
Ashbaugh, Henry C., Heppner, Oreg. Antislipping sandal. No. 975,379; Nov. 8; Sp. p. 2925; Gaz. vol. 160; p. 472.
Ashbaugh, Samuel T., assignor of one-half to H. H. Hill, Canton, Ohio. Screen-frame. No. 970,162; Sept. 13; Sp. p. 2171; Gaz. vol. 158; p. 370.
Ashby, William H., Boone, Iowa. Beater and mixer. No. 959,420; May 24; Sp. p. 6460; Gaz. vol. 154; p. 1082.
Ashcraft, William H., Janesville, Wis. Antifreezing drinking-fountain for poultry. No. 961,831; June 21; Sp. p. 3302; Gaz. vol. 155; p. 588.
Ashcroft Manufacturing Company, The. (See Blanchard, Frederick C., assignor.)
Ashcroft Manufacturing Company, The. (See Blanchard and Crocker, assignors.)
Ashcroft Manufacturing Company. (See Blanchard, Crocker, and Darling, assignors.)
Ashdown, Sydney, Vancouver, British Columbia, Canada. Means for removably attaching logs or the like to hauling-tackle. No. 957,297; May 10; Sp. p. 1738; Gaz. vol. 154; p. 304.
Ashdown, Sydney, Vancouver, British Columbia, Canada. Electrical-lamp wire connection. No. 979,636; Dec. 27; Sp. p. 4796; Gaz. vol. 161; p. 842.
Ashe, Fred M., Tarkio, Mo. Lever mechanism for cultivators. No. 945,361; Jan. 4; Sp. p. 777; Gaz. vol. 150; p. 119.
Ashe, Fred M., Tarkio, Mo. Dispensing-can. No. 945,362; Jan. 4; Sp. p. 781; Gaz. vol. 150; p. 120.
Asher, Josephus M., Jr. (See Browne and Asher.)
Ashford, John, Amritsar, India. Conveyer. No. 948,085; Feb. 1; Sp. p. 637; Gaz. vol. 151; p. 103.
Ashford, Thomas B., assignor of one-tenth to E. O. Moore, one-tenth to H. E. Moseley, one-tenth to E. M. Land, one-tenth to C. L. Stricklin, one-tenth to J. H. Dawson, one-fifth to J. Stricklin, and one-fifth to J. H. Barwick, Kinston, N. C. Transplanter. No. 952,092; Mar. 15; Sp. p. 3297; Gaz. vol. 152; p. 594.
Ashford, Thomas B., assignor of one-eleventh to J. W. Grainger, one-eleventh to J. E. Hood, one-eleventh to S. Oettinger, one-eleventh to J. H. Barwick, one-eleventh to J. R. Rountree, one-eleventh to S. L. Stough, one-eleventh to J. F. Taylor, one-eleventh to W. C. Fields, one-eleventh to H. E. Shaw, and one-eleventh to E. J. Becton Kinston, N. C. Combined signal and lock for railway-switches. No. 948,266; Feb. 1; Sp. p. 987; Gaz. vol. 151; p. 163.
Ashland Manufacturing Company, The. (See Willour, Le Roy, assignor.)
Ashley, Burton J., Chicago, Ill. Apparatus for sewage disposal. No. 956,665; May 3; Sp. p. 338; Gaz. vol. 154; p. 56.
Ashley, Edward, Boise, Idaho. Head-gate. No. 966,154; Aug. 2; Sp. p. 662; Gaz. vol. 157; p. 106.
Ashley, Frank M., New York, N. Y. Tube cutter and expander. No. 949,136; Feb. 15; Sp. p. 2860; Gaz. vol. 151; p. 506.
Ashley, Frank M., New York, N. Y. Ozone-generator. No. 951,789; Mar. 15; Sp. p. 2709; Gaz. vol. 152; p. 495.
Ashley, Frank M., New York, N. Y. Truck. No. 957,136; May 3; Sp. p. 1350; Gaz. vol. 154; p. 216.
Ashley, Frank M., New York, N. Y. Inkstand. No. 960,770; June 7; Sp. p. 1079; Gaz. vol. 155; p. 181.
Ashley, Frank M., New York, N. Y. Flushometer. No. 964,735; July 19; Sp. p. 3812; Gaz. vol. 156; p. 634.
Ashley, Frank M., New York, N. Y. Flushometer. No. 964,736; July 19; Sp. p. 3816; Gaz. vol. 156; p. 634.
Ashley, Frank M., New York, N. Y. Fountain-pen. No. 978,829; Dec. 20; Sp. p. 3028; Gaz. vol. 161; p. 539.
Ashley, John B., Seattle, Wash. Insulated distributer for electric service-wires. No. 964,737; July 19; Sp. p. 3819; Gaz. vol. 156; p. 635.
Ashmead, James H., Lake George, N. Y. Window-bracket. No. 968,311; Aug. 23; Sp. p. 5281; Gaz. vol. 157; p. 910.
Ashmore, Frank F., Kansas City, Mo. Automatic-alarm tire-valve. No. 960,246; June 7; Sp. p. 7; Gaz. vol. 155; p. 4.
Ashton, Francis E., Exeter, N. H., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 961,668; June 14; Sp. p. 2947; Gaz. vol. 155; p. 509.
Ashton, John A., Sr., Philadelphia, Pa. Elevator. No. 947,585; Jan. 25; Sp. p. 5762; Gaz. vol. 150; p. 958.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Grinding-machine. No. 955,934; Apr. 26; Sp. p. 4864; Gaz. vol. 153; p. 860.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-trimming machine. No. 961,200; June 14; Sp. p. 1942; Gaz. vol. 155; p. 351.
Ashton, Pullon, assignor of one-half to Andreas Leibhart, New York, N. Y. Clothes-hanger. No. 976,772; Nov. 22; Sp. p. 5920; Gaz. vol. 160; p. 999.
Ashton, Reese. (See Mayer and Ashton.)
Ashworth, Albert, Chattanooga, Tenn. Device for remetaling cross-heads. No. 967,153; Aug. 16; Sp. p. 2851; Gaz. vol. 157; p. 493.
Ashworth, Daniel, Wappingers Falls, N. Y. Rail-fastener. No. 957,641; May 10; Sp. p. 2424; Gaz. vol. 154; p. 419.
Ashworth, Ethel G. (See Ashworth, Thomas and E. G.)
Ashworth, John W., Peoria, Ill. Beef-cooler attachment. No. 950,628; Mar. 1; Sp. p. 352; Gaz. vol. 152; p. 57.

Alphabetical list of patentees—Continued.

Ashworth, Thomas and E. G., Urmston, England. Lubricator for the picker-spindles of looms. No. 955,572; Apr. 19; Sp. p. 4030; Gaz. vol. 153; p. 707.
Asia Rubber Company of America. (See Chanut, Léon H., assignor.)
Askegren, Carl M., Goulding, Fla. Apparatus for loading ships at sea. No. 973,906; Oct. 25; Sp. p. 5237; Gaz. vol. 159; p. 908.
Askew, Charles B., Chicago, Ill. Fire-boat. No. 969,440; Sept. 6; Sp. p. 610; Gaz. vol. 158; p. 97.
Aslakson, Baxter M., Salem, Ohio. Cross-head. No. 949,137; Feb. 15; Sp. p. 2861; Gaz. vol. 151; p. 506.
Aslakson, Baxter M., Salem, Ohio. Ignition device. No. 949,138; Feb. 15; Sp. p. 2863; Gaz. vol. 151; p. 506.
Aslakson, Baxter M., Salem, Ohio. Air and gas engine. No. 949,139; Feb. 15; Sp. p. 2864; Gaz. vol. 151; p. 507.
Aslakson, Baxter M., Salem, Ohio. Vaporizer for gas-producers. No. 962,610; June 28; Sp. p. 5022; Gaz. vol. 155; p. 878.
Aslakson, Baxter M., Salem, Ohio. Timer for gas-engines. No. 968,635; Aug. 30; Sp. p. 5956; Gaz. vol. 157; p. 1049.
Aslakson, Baxter M., Salem, Ohio. Gas-engine. No. 968,636; Aug. 30; Sp. p. 5958; Gaz. vol. 157; p. 1049.
Aslakson, Baxter M., Salem, Ohio. Valve for gas-engines. No. 974,337; Nov. 1; Sp. p. 592; Gaz. vol. 160; p. 88.
Assmann, Carl, Charlottenburg, Germany. Regulating apparatus for mixing-valves. No. 962,111; June 21; Sp. p. 3920; Gaz. vol. 155; p. 683.
Assmann, Friedrich, Stenglingsen, Germany. Door-lock. No. 975,819; Nov. 15; Sp. p. 3844; Gaz. vol. 160; p. 648.
Astbury, Samuel E., Wolverhampton, England. Roller-skate. No. 955,037; Apr. 12; Sp. p. 2921; Gaz. vol. 153; p. 495.
Astor, John J., New York, N. Y. Securing device for chairs. No. 961,093; June 14; Sp. p. 1731; Gaz. vol. 155; p. 314.
Astoria Iron Works. (See Eldridge, John, assignor.)
Astrom, Carl P., Hasbrouck Heights, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Dumping-car. No. 954,560; Apr. 12; Sp. p. 1846; Gaz. vol. 153; p. 330.
Astrom, Carl P., Hasbrouck Heights, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Ladle-car. No. 954,561; Apr. 12; Sp. p. 1847; Gaz. vol. 153; p. 330.
Astruck, John H. (See Salviolo, Carmine J., assignor.)
Astruck, John H., New York, N. Y. Combined match-stand and cigar-cutter. No. 961,927; June 21; Sp. p. 3509; Gaz. vol. 155; p. 620.
Astruck, John H., and C. J. Salviolo, assignors to J. H. Astruck, New York, N. Y. Cigar-cutter. No. 953,313; Mar. 29; Sp. p. 5875; Gaz. vol. 152; p. 1061.
Astrup, Andrew, Milwaukee, Wis. Speed-changing gearing. No. 964,141; July 12; Sp. p. 2446; Gaz. vol. 156; p. 402.
Astrup, William J. O., Cleveland, Ohio. Awning-fixture. No. 960,771; June 7; Sp. p. 1080; Gaz. vol. 155; p. 181.
Aszman, Abelina C., Chicago, Ill. Nozzle for fire-extinguishers. No. 973,333; Oct. 18; Sp. p. 4015; Gaz. vol. 159; p. 687.
Atha, Louis M., Newark, N. J. Jarring-machine. No. 967,484; Aug. 16; Sp. p. 3532; Gaz. vol. 157; p. 607.
Atha Tool Company. (See Blevney and Hausman, assignors.)
Atha Tool Company, The. (See Hausman and Blevney, assignors.)
Atherton, Charles T., assignor to Atherton Spinning Ring Company, Providence, R. I. Spinning machinery. No. 954,012; Apr. 5; Sp. p. 650; Gaz. vol. 153; p. 116.
Atherton, Frederick L., Paterson, N. J. Warping-machine. No. 964,366; July 12; Sp. p. 2885; Gaz. vol. 156; p. 476.
Atherton Spinning Ring Company. (See Atherton, Charles T., assignor.)
Athey, Earl, Uvalde, Tex. Clamp. No. 976,334; Nov. 22; Sp. p. 4976; Gaz. vol. 160; p. 848.
Athey, Isaac H., Chicago, Ill. Antirattling dust and weather guard for windows. No. 965,851; Aug. 2; Sp. p. 10; Gaz. vol. 157; p. 4.
Atkin, Samuel T., Georgetown, Tex. Mop-wringer. No. 959,285; May 24; Sp. p. 6209; Gaz. vol. 154; p. 1037.
Atkins, Albert. (See Girt, Wilson, and Atkins.)
Atkins, Charles H., Springfield, Mass. Motive-power apparatus. No. 951,171; Mar. 8; Sp. p. 1431; Gaz. vol. 152; p. 259.
Atkins, Charles H., Springfield, Mass. Ball-cock. No. 966,417; Aug. 9; Sp. p. 1190; Gaz. vol. 157; p. 217.
Atkins, George M., Palmer, Mass. Holder for safety-razor blades. No. 955,935; Apr. 26; Sp. p. 4868; Gaz. vol. 153; p. 861.
Atkins, James H., Cambridge, Ohio. Weeding-machine. No. 979,407; Dec. 27; Sp. p. 4298; Gaz. vol. 161; p. 762.
Atkins, John H., Pasco, Wash. Current-motor. No. 953,891; Apr. 5; Sp. p. 409; Gaz. vol. 153; p. 75.
Atkins, Percy B., assignor to Milton Bradley Company, Springfield, Mass. Game apparatus. No. 966,984; Aug. 9; Sp. p. 2484; Gaz. vol. 157; p. 409.
Atkins, William, Auburn, N. Y. Dump-wagon. No. 946,791; Jan. 18; Sp. p. 3977; Gaz. vol. 150; p. 661.
Atkinson, Charles. (See Basken, Izadore J., assignor.)
Atkinson, Christopher C., Hawkinsville, Ga. Means for generating power. No. 978,425; Dec. 13; Sp. p. 2182; Gaz. vol. 161; p. 378.
Atkinson, Henry A., Fitzroy, Victoria, Australia. Cot for attachment to beds. No. 961,669; June 14; Sp. p. 2949; Gaz. vol. 155; p. 510.
Atkinson, R. D., *et al.* (See Reed, Rufus C., assignor.)
Atkison, Rousseau H., assignor of one-half to P. C. Borah, Goldengate, Ill. Corn-busker. No. 966,641; Aug. 9; Sp. p. 1725; Gaz. vol. 157; p. 294.
Atlas Chain Company. (See Evans, Robert N., assignor.)
Atlas Chain Company. (See Evans and Hamm, assignors.)
Atlas Chain Company. (See Hamm, Philip T., assignor.)
Atlas Engine Works. (See McCarty, Norman, assignor.)
Atlas Portland Cement Company, The. (See Passow, Hermann, assignor.)
Atlas Tack Company. (See Luscomb, Frederick W., assignor.)
Atlee, Joshua W., Riverton, N. J. Telephone. No 971,237; Sept. 27; Sp. p. 4474; Gaz. vol. 158; p. 783.
Atleson, Carl J., Elm, N. D. Well-rod lifter. No. 945,902; Jan. 11; Sp. p. 2004; Gaz. vol. 150; p. 332.
Ator, Sidney D. and T. F., Plentywood, Mont. Wrench. No. 956,924; May 3; Sp. p. 922; Gaz. vol. 154; p. 146.
Ator, Thomas F. (See Ator, Sidney D. and T. F.)
Atterbury, Grosvenor, New York, N. Y. Process and apparatus for molding or casting. No. 965,150; July 26; Sp. p. 4650; Gaz. vol. 156; p. 805.
Atteridge, Andrew H., London, England. Submarine boat or other vessel. No. 969,128; Aug. 30; Sp. p. 6997; Gaz. vol. 157; p. 1217.
Attractograph Company. (See Spiegel, Alexander S., assignor.)
Atwater, Archibald L. (See Morgan, Atwater, Crowther, and Ash.)
Atwater, Harry R., assignor to The Osborn Manufacturing Co., Cleveland, Ohio. Lawn mower sharpener. No. 956,873; May 3; Sp. p. 811; Gaz. vol. 154; p. 129.
Atwood, Arthur F. (See Rod and Atwood.)
Atwood, Clarence B., assignor to National Sewing Machine Company, Belvidere, Ill. Stock-stop for automatic screw-machines and the like. No. 956,874; May 3; Sp. p. 811; Gaz. vol. 154; p. 129.
Atwood, Eugene R. (See Rice, Herbert S., assignor.)
Atwood, George F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Relay. No. 949,952; Feb. 22; Sp. p. 4573; Gaz. vol. 151; p. 817.
Atwood, George F., Newark, N. J., assignor to Westinghouse Lamp Company. Incandescent lamp. No. 976,248; Nov. 22; Sp. p. 4800; Gaz. vol. 160; p. 820.
Atwood, Harry O., West Philadelphia, Pa. Roller-bearing for printing-presses. No. 973,098; Oct. 18; Sp. p. 3500; Gaz. vol. 159; p. 604.
Atwood, Irving H., Amesbury, Mass. Vehicle-lamp. No. 965,551; July 26; Sp. p. 5536; Gaz. vol. 156; p. 943.
Atwood, John B., Allegheny, Pa. Railway-track brake. No. 952,493; Mar. 22; Sp. p. 4114; Gaz. vol. 152; p. 757.
Atwood, John B., Allegheny, Pa. Railway-car control apparatus. No. 952,494; Mar. 22; Sp. p. 4116; Gaz. vol. 152; p. 758.
Atwood, John W., North Easton, Mass. Net-lifting device. No. 967,485; Aug. 16; Sp. p. 3534; Gaz. vol. 157; p. 607.
Atwood, William, Longmont, Colo. Beet-harvester. No. 945,073; Jan. 4; Sp. p. 141; Gaz. vol. 150; p. 24.
Atwood, Winfield A., Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling mechanism. No. 970,600; Sept. 20; Sp. p. 3098; Gaz. vol. 158; p. 540.
Atwood, Winfield A., Schenectady, N. Y., assignor to General Electric Company. Circuit-controller. No. 973,613; Oct. 25; Sp. p. 4622; Gaz. vol. 159; p. 804.
Atzberger, Philip J., Cleveland, Ohio. Gas-burner. No. 949,050; Feb. 15; Sp. p. 2684; Gaz. vol. 151; p. 478.
Au Buchon, Peter P., French Village, Mo. Engine-starting device. No. 978,264; Dec. 13; Sp. p. 1840; Gaz. vol. 161; p. 322.
Au Werter, John T., Braddock, Pa. Apparatus for pickling. No. 959,195; May 24; Sp. p. 6031; Gaz. vol. 154; p. 1008.
Aubertel, Max, Cornwall on the Hudson, N. Y. Detachable wagon-skate. No. 958,461; May 17; Sp. p. 4495; Gaz. vol. 154; p. 735.
Aubery, James M. (See Priestly and Aubery.)
Auble, James H., assignor of one-half to H. A. Barrett, Cincinnati, Ohio. Mechanical movement. No. 970,163; Sept. 13; Sp. p. 2173; Gaz. vol. 158; p. 370.
Auble, James H., Cincinnati, assignor of one-third to J. H. Bromwell, Wyoming, and one-third to J. J. McDonald, Cincinnati, Ohio. Lawn-mower. No. 962,407; June 28; Sp. p. 4540; Gaz. vol. 155; p. 807.
Auble, James H., Cincinnati, assignor of two-thirds to J. H. Bromwell, Wyoming, and J. J. McDonald, Cincinnati, Ohio. Wheel for lawn-mowers. No. 974,848; Nov. 8; Sp. p. 1736; Gaz. vol. 160; p. 290.
Auble, James H., and H. A. Barrett, Cincinnati, Ohio. Mower-wheel. No. 970,455; Sept. 20; Sp. p. 2783; Gaz. vol. 158; p. 489.
Aubuchon, Gertrude, Jefferson, assignor of one-half to J. C. Stephens, St. Louis, Mo. Hat-holder. No. 958,070; May 17; Sp. p. 3556; Gaz. vol. 154; p. 599.

Auckram, Wilfrid T., Otahuhu, Auckland, New Zealand. Sewing-machine. No. 954,847; Apr. 12; Sp. p. 2525; Gaz. vol. 153; p. 430.
Audette, Antoine L., Chicopee Falls, Mass. Firearm. No. 968,228; Aug. 23; Sp. p. 5106; Gaz. vol. 157; p. 880.
Auel, Carl B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush-holder for dynamo-electric machines. No. 956,666; May 3; Sp. p. 344; Gaz. vol. 154; p. 57.
Auel, Carl B., Wilkinsburg, Pa., and J. R. Spurrier, Manchester, England, assignors to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 974,109; Nov. 1; Sp. p. 3; Gaz. vol. 160; p. 3.
Auer, John, San Francisco, Cal. Saw-clamp. No. 971,815; Oct. 4; Sp. p. 633; Gaz. vol. 159; p. 111.
Aufermann, Hans S., Munich, Germany. Preparing printing-plates in grain manner. No. 954,412; Apr. 12; Sp. p. 1519; Gaz. vol. 153; p. 279.
Aufricht, Theodore B. (See Hoagland, John B., assignor.)
Aufzüge- & Räderfabrik Seebach. (See Gut, Gottlieb, assignor.)
Aug, John F. (See Ripplinger, Henry, assignor.)
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Sash-center. No. 951,042; Mar. 1; Sp. p. 1175; Gaz. vol. 152; p. 193.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 956,262; Apr. 26; Sp. p. 5592; Gaz. vol. 153; p. 975.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Switch-lock. No. 962,936; June 28; Sp. p. 5661; Gaz. vol. 155; p. 991.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 966,295; Aug. 2; Sp. p. 953; Gaz. vol. 157; p. 152.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combined dead lock and latch. No. 975,013; Nov. 8; Sp. p. 2131; Gaz. vol. 160; p. 347.
Auger, Jerry, Hurley, Wis. Bottle. No. 949,873; Feb. 22; Sp. p. 4408; Gaz. vol. 151; p. 789.
Auger, Philibert, Easthampton, Mass. Motor-chair. No. 952,864; Mar. 22; Sp. p. 4919; Gaz. vol. 152; p. 886.
Augsberger, Edward J., Philadelphia, Pa. Flying-machine. No. 953,810; Apr. 5; Sp. p. 260; Gaz. vol. 153; p. 46.
Augsberger, Jacob D., Linngrove, Ind. Screen-roller. No. 970,456; Sept. 20; Sp. p. 2785; Gaz. vol. 158; p. 489.
Augsten, Josef, Rockville, Conn. Tailor's fitting apparatus. No. 946,191; Jan. 11; Sp. p. 2601; Gaz. vol. 150; p. 432.
Augusta Knitting Company. (See Marville, George S., assignor.)
Augustine, David, South Bend, Ind. Cranking device for automobile-engines. No. 976,536; Nov. 22; Sp. p. 5435; Gaz. vol. 160; p. 918.
Aul, Edward J., Pittsburg, Pa. Flower-pot. No. 964,196; July 12; Sp. p. 2542; Gaz. vol. 156; p. 419.
Ault, James M., Decatur, Ind. Building-block. No. 979,913; Dec. 27; Sp. p. 5406; Gaz. vol. 161; p. 935.
Ault, William S., assignor of one-half to H. L. Gray, Wabash, Ind. Hinge. No. 972,090; Oct. 4; Sp. p. 1250; Gaz. vol. 159; p. 212.
Aultman, Thomas G., Fairmont, W. Va. Valve arrangement for steam-engines. No. 966,880; Aug. 9; Sp. p. 2276; Gaz. vol. 157; p. 373.
Aune, Andrew J., Milton, N. D. Lantern-carrier. No. 977,428; Dec. 6; Sp. p. 5; Gaz. vol. 161; p. 4.
Aurig, Frank W., assignor to T. S. Shibe, Philadelphia, Pa. Automobile wind-shield. No. 966,785; Aug. 9; Sp. p. 2067; Gaz. vol. 157; p. 344.
Aurora Automatic Machinery Company. (See Levedahl, Axel, assignor.)
Aurora Automatic Machinery Company. (See Norling, Reinhold A., assignor.)
Aurora Automatic Machinery Company. (See Ottaway, William, assignor.)
Auscher, Paul, Paris, France. Manifolding-book. No. 954,246; Apr. 5; Sp. p. 1172; Gaz. vol. 153; p. 195.
Austerweil, Géza, Neuilly, near Paris, France. Regenerating and devulcanizing india-rubber or caoutchouc and extraction of caoutchouc from raw materials containing caoutchouc. No. 961,395; June 14; Sp. p. 2367; Gaz. vol. 155; p. 418.
Austerweil, Géza, Neuilly, near Paris, France. Oxidizing borneol to camphor. No. 979,247; Dec. 20; Sp. p. 3993; Gaz. vol. 161; p. 687.
Austin, A. T. (See Huntington, Charles S., assignor.)
Austin, Arthur O., assignor to The Akron Hi-Potential Porcelain Company, Barberton, Ohio. Suspension device for insulators. No. 947,274; Jan. 25; Sp. p. 5035; Gaz. vol. 150; p. 851.
Austin, Arthur O., assignor to The Akron Hi-Potential Porcelain Company, Barberton, Ohio. Suspension-clamp. No. 951,298; Mar. 8; Sp. p. 1692; Gaz. vol. 152; p. 299.
Austin, Charles, Ava, Ill. Churn. No. 952,296; Mar. 15; Sp. p. 3707; Gaz. vol. 152; p. 663.
Austin, Charles A. (See Long and Austin.)
Austin, Charles A., New York, N. Y. Suction supporting device. No. 952,495; Mar. 22; Sp. p. 4117; Gaz. vol. 152; p. 758.
Austin, Charles A., New York, N. Y. Suction suspending device. No. 963,264; July 5; Sp. p. 609; Gaz. vol. 156; p. 85.
Austin, Charles R., Longbeach, Cal. Automatic switch. No. 964,836; July 19; Sp. p. 4021; Gaz. vol. 156; p. 669.
Austin, Charles R., Longbeach, Cal. Semi-automatic telephone system. No. 975,105; Nov. 8; Sp. p. 2320; Gaz. vol. 160; p. 379.
Austin, Frank M., Beaverton, Oreg. Gopher-gun. No. 964,367; July 12; Sp. p. 2889; Gaz. vol. 156; p. 477.
Austin, Frank W. (See Jensen and Austin.)
Austin, Frank W. (See Walrath and Austin.)
Austin, Frederick C. (See Bunnell, Morton G., assignor.)
Austin, Harry A., Lockport, N. Y. Condensation-meter. No. 964,837; July 19; Sp. p. 4023; Gaz. vol. 156; p. 669.
Austin, James C., New York, N. Y. Nut-lock. No. 961,063; June 7; Sp. p. 1658; Gaz. vol. 155; p. 277.
Austin, James E., Fresno, Cal. Hose-support. No. 970,164; Sept. 13; Sp. p. 2176; Gaz. vol. 158; p. 371.
Austin, Jed L., Conneaut, Ohio. Cross-tie and rail-fastener. No. 950,984; Mar. 1; Sp. p. 1085; Gaz. vol. 152; p. 174.
Austin, John, Geneva, Ohio. Mainspring-barrel. No. 977,994; Dec. 6; Sp. p. 1229; Gaz. vol. 161; p. 198.
Austin, John D., Tampa, Fla. Automatic dumping device for elevated carriers. No. 973,247; Oct. 18; Sp. p. 3838; Gaz. vol. 159; p. 656.
Austin Manufacturing Company. (See Charter, James A., assignor.)
Austin Manufacturing Company. (See De Wind, Norman, assignor.)
Austin Manufacturing Company. (See Mustin, Herbert S., assignor.)
Austin Manufacturing Company. (See Rhodes, Jay B., assignor.)
Austin, Nelson E., Danbury, Conn. Irrigation device. No. 966,069; Aug. 2; Sp. p. 488; Gaz. vol. 157; p. 78.
Austin, Samuel R., Arnett, Okla. Fence-tightener. No. 977,995; Dec. 6; Sp. p. 1230; Gaz. vol. 161; p. 198.
Austin, Thomas W., Omaha, Nebr., assignor to American Manufacturing Co., an Association. Legging. No. 974,623; Nov. 1; Sp. p. 1247; Gaz. vol. 160; p. 191.
Austin-Walker Company. (See Türk, Leo, assignor.)
Austin, Walter M., Swissvale, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Water-regulator for jacketed pumps. No. 948,471; Feb. 8; Sp. p. 1451; Gaz. vol. 151; p. 258.
Austin, William A. (See Scheib and Austin.)
Austin, William H. (See Morgan and Austin.)
Austin, William L., Riverside, Cal. Extracting copper from ore. No. 975,106; Nov. 8; Sp. p. 2327; Gaz. vol. 160; p. 380.
Austin, William L., assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Car-truck. No. 951,043; Mar. 1; Sp. p. 1177; Gaz. vol. 152; p. 193.
Austin, William L., assignor to Baldwin Locomotive Works, Philadelphia, Pa. Swing-truck for locomotives. No. 952,402; Mar. 15; Sp. p. 3899; Gaz. vol. 152; p. 698.
Austinson, Oliver T., Lyle, Minn. Adjustable live-stock stanchion for wagons. No. 956,791; May 3; Sp. p. 623; Gaz. vol. 154; p. 99.
Auth, Charles, New York, N. Y. Annunciator-drop. No. 959,193; May 24; Sp. p. 6026; Gaz. vol. 154; p. 1007.
Auth, Charles, New York, N. Y. Annunciator-drop. No. 959,194; May 24; Sp. p. 6028; Gaz. vol. 154; p. 1007.
Auto-Appliance Manufacturing Company. (See Merritt, Frank W., assignor.)
Auto Armor Company. (See Hayes, Frank P., assignor.)
Auto Bi Company, The. (See Becker, Clarence E., assignor.)
Auto-Compressed-Air-Wheel Company. (See Gruss, Lucien R. and R. L., assignors.)
Auto-Flame Gas Burners Company. (See D'Arsi, Fortunato M., assignor.)
Auto Improvement Company. (See Volkmar, Bernhard, assignor.)
Auto-Lighter & Equipment Company. (See Bartlett, Louis G., assignor.)
Auto Lock Co. (See Markham, Romondo D., assignor.)
Auto Pneumatic Action Co. (See Danquard, Thomas, assignor.)
Auto-Pneumatic Action Co. (See O'Connor, James, assignor.)
Auto Specialties Manufacturing Company. (See Bair, Clarence L., assignor.)
Auto Stopper Company. (See Hicks, James M., assignor.)
Auto Stopper Company. (See Hicks, John A., assignor.)
Auto Strop Company. (See Gaisman, Henry J., assignor.)
Autocar Company, The. (See Bachman, Benjamin B., assignor.)
Autocar Company. (See Clarke and Bachman, assignors.)
Autocoil Company, The. (See Varley, Richard, assignor.)
Autoforce Ventilating System. (See Powers, Earle C., assignor.)
Automatic Billing Company. (See Gallagher, Richard W., assignor.)

Alphabetical list of patentees—Continued.

Automatic Bowling Alley Company. (See Downey, Richard F., assignor.)
Automatic Card Seller Company. (See Downey, Richard F., assignor.)
Automatic Coin Wrapping Machine Company. (See Batdorf, Charles S., assignor.)
Automatic Fire Protection Company. (See Goldstein, Albert, assignor.)
Automatic Fire Protection Company. (See Goldstein and Rice, assignors.)
Automatic Fire Protection Company. (See Nolen, James G., assignor.)
Automatic Individual Butter Cutter Company. (See Hart, William P., assignor.)
Automatic Jack Company. (See Harrah, Philip J., assignor.)
Automatic Letter Machine Company. (See Smith, Hazor J., assignor.)
Automatic Marking Company. (See McCarty, Wreford L., assignor.)
Automatic Packing Company. (See Cromley, Charles D., assignor.)
Automatic Paper Feeder Company, The. (See Saunders, William L., assignor.)
Automatic Platen Press Company. (See Beyer, Otto S., assignor.)
Automatic Platen Press Company. (See Morrison, Lewis E., assignor.)
Automatic Platen Press Company. (See Pribil, Alexis R., assignor.)
Automatic Printing Press Company. (See Custer, Dwight W., assignor.)
Automatic Racking Machine Company. (See Colby, Harry W., assignor.)
Automatic Rove-Stop Company. (See Sharp, Peter, assignor.)
Automatic Signal Light Company, The. (See McAloney, William H., assignor.)
Automatic Starter Company. (See Brisbois, Odilon, assignor.)
Automatic Steel Grain Door Company, The. (See Gilleland, Edgar B., assignor.)
Automatic Unloading Car Company. (See Rakowsky, Gustav A., assignor.)
Automatic Vacuum Canning Company, The. (See Norton, Edwin, assignor.)
Automatic Vending Machines Company, The. (See Craig and Coffman, assignors.)
Automatic Weighing Machine Company. (See Tremainè, Edward G., assignor.)
Automobilwerke Union Actiengesellschaft. (See Appinger, Johann F., assignor.)
Autry, George E., Granton, Okla. Transplanting-machine. No. 965,980; Aug. 2; Sp. p. 288: Gaz. vol. 157: p. 47.
Aveling, Christiaan W., Morgan Park, Ill. Brake. No. 956,263; Apr. 26; Sp. p. 5594; Gaz. vol. 153; p. 976.
Aveling, Thomas C. (See Gill and Aveling.)
Averbeck, Henry J., and B. W. Ginn, assignors to The Lovell & Buffington Tobacco Company, Covington, Ky. Tobacco-wringer. No. 975,388; Nov. 15; Sp. p. 2953; Gaz. vol. 160; p. 501.
Averill, John C., Chicago, Ill. Checkrein-hook for harness. No. 964,603; July 19; Sp. p. 3445; Gaz. vol. 156; p. 589.
Averill, Minnie, Joplin, Mo. Toy beehive. No. 972,147; Oct. 11; Sp. p. 1369; Gaz. vol. 159; p. 250.
Avery, Addison, Chicago, Ill. Rock-drill. No. 945,209; Jan. 4; Sp. p. 420; Gaz. vol. 150; p. 70.
Avery, Andrew J., Oakland, Me. Camp cooking outfit. No. 948,717; Feb. 8; Sp. p. 1988; Gaz. vol. 151; p. 340.
Avery, Charles E., Jersey City, N. J., assignor to Manhattan Electrical Supply Company. Electric motor. No. 958,354; May 17; Sp. p. 4281; Gaz. vol. 154; p. 698.
Avery Company. (See Bartholomew, John B., assignor.)
Avery Company. (See Perry, George W., Jr., assignor.)
Avery, Frances P., Moline, Ill., (now by marriage Frances P. Avery Seymour,) assignor to Avery Manufacturing Company, Detroit, Mich. Snaffle-hook. No. 967,486; Aug. 16; Sp. p. 3536; Gaz. vol. 157; p. 608.
Avery, Freeman, Larned, Kans. Cultivator. No. 973,614; Oct. 25; Sp. p. 4625; Gaz. vol. 159; p. 804.
Avery, George C., assignor to B. F. Avery & Sons, Louisville, Ky. Plow. (Reissue.) No. 13,066; Jan. 4; Sp. p. 1584; Gaz. vol. 150; p. 243.
Avery, Gus, assignor of one-half to W. Donovan, South Bend, Ind. Spoke-tenoning machine. No. 964,738; July 19; Sp. p. 3820; Gaz. vol. 156; p. 635.
Avery, Henry W., assignor to The Avery Stamping Company, Cleveland, Ohio. Metallic barrel. No. 966,513; Aug. 9; Sp. p. 1466; Gaz. vol. 157; p. 251.
Avery, Henry W., and W. S. Judd, Cleveland, Ohio. Sheet-metal barrel. No. 972,797; Oct. 18; Sp. p. 2790; Gaz. vol. 159; p. 498.
Avery Manufacturing Company. (See Avery, Frances P., assignor.)
Avery, Paul W., and E. C. Knowles, Deadwood, S. D. Treating precious-metal-bearing materials. No. 963,111; July 5; Sp. p. 229; Gaz. vol. 156; p. 30.
Avery & Sons, B. F. (See Avery, George C., assignor.) (Reissue.)

Avery Stamping Company, The. (See Avery, Henry W., assignor.)
Avery, William, Richmond, England. Machine for cutting screw-threads upon screws. No. 948,200; Feb. 1; Sp. p. 854; Gaz. vol. 151; p. 140.
Avery, William, Richmond, England. Machine for turning and nicking the heads of screws. No. 948,492; Feb. 8; Sp. p. 1504; Gaz. vol. 151; p. 266.
Avery, William, Richmond, England. Machine for automatically cutting or forming screw-threads upon screws. No. 963,976; July 12; Sp. p. 2106; Gaz. vol. 156; p. 344.
Avery, William, Richmond, England. Machine for automatically cutting or forming screw-threads upon screws. No. 963,977; July 12; Sp. p. 2110; Gaz. vol. 156; p. 345.
Avey, Eugene S. (See Carroll and Avey.)
Avisus, Leopold, Chicago, Ill. Piano-action. No. 973,841; Oct. 25; Sp. p. 5092; Gaz. vol. 159; p. 884.
Avram, Moïs H., New York, N. Y. Razor-stropping machine. No. 950,503; Mar. 1; Sp. p. 93; Gaz. vol. 152; p. 15.
Avram, Moïs H., New York, N. Y. Razor-stropping machine. No. 950,504; Mar. 1; Sp. p. 95; Gaz. vol. 152; p. 16.
Avram, Moïs H., assignor to Wonder Sales Company, New York, N. Y. Stropping-roller. No. 950,527; Mar. 1; Sp. p. 143; Gaz. vol. 152; p. 23.
Avram, Moïs H., New York, N. Y. Time-recorder. No. 950,649; Mar. 1; Sp. p. 396; Gaz. vol. 152; p. 64.
Avram, Moïs H., assignor to Wonder Sales Company, New York, N. Y. Razor-stropping machine. No. 950,830; Mar. 1; Sp. p. 794; Gaz. vol. 152; p. 127.
Awkerman, Romeo C., *et al.* (See O'Brien, Vincent J., assignor.)
Ax, Morris, Red Bank, N. J. Window-cleaner. No. 947,145; Jan. 18; Sp. p. 4708; Gaz. vol. 150; p. 778.
Axford, Sherman L., Burlington, Kans. Combined hot-water bottle and syringe-reservoir. No. 951,044; Mar. 1; Sp. p. 1180; Gaz. vol. 152; p. 193.
Axtell, Henry, Berkeley, Cal. Crown for winding-stems of watches. No. 951,672; Mar. 8; Sp. p. 2457; Gaz. vol. 152; p. 425.
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can-cap-tipping machine. No. 948,963; Feb. 8; Sp. p. 2479; Gaz. vol. 151; p. 422.
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Machine for soldering the cap ends of cans. No. 961,743; June 14; Sp. p. 3099; Gaz. vol. 155; p. 535.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Aydelott, William T. (See Wise, Benjamin F., assignor.)
Aydt, Laurence L., Dahlgren, Ill. Vapor-burning lamp. No. 946,712; Jan. 18; Sp. p. 3790; Gaz. vol. 150; p. 634.
Ayer, Albert E., Chelsea, assignor to R. L. Vose, Brookline, Mass. Rotary cutter. No. 949,051; Feb. 15; Sp. p. 2687; Gaz. vol. 151; p. 478.
Ayer, Fred W., Bangor, Me. Separating bark from wood. No. 979,914; Dec. 27; Sp. p. 5407; Gaz. vol. 161; p. 935.
Ayer, James I., Cambridge, assignor to Simplex Electric Heating Company, Boston, Mass. Electric toaster. No. 951,765; Mar. 8; Sp. p. 2642; Gaz. vol. 152; p. 457.
Ayer, James I., Cambridge, assignor to Simplex Electric Heating Company, Boston, Mass. Electric signal-switch. No. 963,728; July 5; Sp. p. 1557; Gaz. vol. 156; p. 239.
Ayer, James I., assignor to Simplex Electric Heating Company, Cambridge, Mass. Electric-heater combination. No. 968,441; Aug. 23; Sp. p. 5533; Gaz. vol. 157; p. 955.
Ayer, James I., Cambridge, assignor to Simplex Electric Heating Company, Boston, Mass. Electric circulation water-heater. No. 978,808; Dec. 13; Sp. p. 2983; Gaz. vol. 161; p. 505.
Ayer, James I., Cambridge, and H. B. Gale, Natick, assignors to Simplex Electric Heating Company, Cambridge, Mass. Electric baking-oven. No. 975,107; Nov. 8; Sp. p. 2328; Gaz. vol. 160; p. 380.
Ayer, James I., Cambridge, and H. B. Gale, Natick, assignors to Simplex Electric Heating Company, Cambridge, Mass. Flush curling-iron heater. No. 978,980; Dec. 20; Sp. p. 3372; Gaz. vol. 161; p. 593.
Ayers, Joseph G., Jr., Steelton, Pa. Device for determining diameters. No. 979,248; Dec. 20; Sp. p. 3993; Gaz. vol. 161; p. 687.
Ayers, Robert M., Quanah, Tex. Cotton-gatherer. No. 971,513; Oct. 4; Sp. p. 3; Gaz. vol. 159; p. 3.
Ayers, Willis E., Salem, Ohio. Coin and letter holder for rural-route boxes. No. 976,335; Nov. 22; Sp. p. 4978; Gaz. vol. 160; p. 848.
Ayler, Frank, Winona, Wash. Grain-separator. No. 975,598; Nov. 15; Sp. p. 3381; Gaz. vol. 160; p. 574.
Aylesworth, Jonas W. (See Edison and Aylesworth.)
Aylett, Philip, Portsmouth, Va. Concrete construction. No. 965,357; July 26; Sp. p. 5096; Gaz. vol. 156; p. 875.
Aylett, Philip, Portsmouth, Va. System of concrete construction. No. 965,358; July 26; Sp. p. 5099; Gaz. vol. 156; p. 875.
Ayling, Arthur W., and P. F. Reichert, Toledo, Ohio. Float. No. 952,496; Mar. 22; Sp. p. 4119; Gaz. vol. 152; p. 758.
Aylsworth, Jonas W., East Orange, N. J. Celluloid composition. No. 962,877; June 28; Sp. p. 5561; Gaz. vol. 155; p. 973.

Alphabetical list of patentees—Continued.

Aylsworth, Jonas W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Duplicate sound-record. No. 953,454; Mar. 29; Sp. p. 6192; Gaz. vol. 152; p. 1110.

Aylsworth, Jonas N., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Duplicate sound-record. No. 958,210; May 17; Sp. p. 3829; Gaz. vol. 154; p. 647.

Aylsworth, Jonas W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Composition for phonograph-records. No. 962,878; June 28; Sp. p. 5562; Gaz. vol. 155; p. 973.

Aylsworth, Jonas W., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal. No. 961,333; June 14; Sp. p. 2258; Gaz. vol. 155; p. 399.

Aylsworth, Jonas W., East Orange, and F. L. Dyer, Montclair, N. J. Distilling coal. No. 970,364; Sept. 13; Sp. p. 2594; Gaz. vol. 158; p. 438.

Aylward, Henry W. (See Marshall, Herbert E., assignor.)

Aylward, Henry W. (See Marshall and Schlagel, assignors.)

Aylward, Henry W., Brooklyn, N. Y. Electrical signaling apparatus. No. 953,575; Mar. 29; Sp. p. 6453; Gaz. vol. 152; p. 1154.

Aylward, Henry W., New York, N. Y., assignor to The Signal and Control Company. Chime-whistle. No. 951,877; Mar. 15; Sp. p. 2893; Gaz. vol. 152; p. 524.

Aylward, Richard P. (See Dolan and Aylward.)

Ayo, Clerfé, Bowie, La. Faucet. No. 952,865; Mar. 22; Sp. p. 4932; Gaz. vol. 152; p. 886.

Ayres, Leander E., Jr., Newark, N. J. Coin-wrapping device. No. 961,832; June 21; Sp. p. 3303; Gaz. vol. 155; p. 589.

Azaria, Pierre, Paris, France. Obtaining metallic attachments for incandescent lamps. No. 946,192; Jan. 11; Sp. p. 2603; Gaz. vol. 150; p. 432.

Azzara, Santo, New York, N. Y. Corset for shoes. No. 975,820; Nov. 15; Sp. p. 3847; Gaz. vol. 160; p. 648.

B. Fleigel Company. (See Fleigel, Benjamin, assignor.)

B. Fleigel Company. (See Wales, Alfred B., assignor.)

B. B. Hill Manufacturing Company, The. (See Hill, Benjamin B., assignor.)

B. C. Small Mfg. Company, The. (See Small, Byron C., assignor.)

B. F. Cummins Company. (See Reeve and Oswald, assignors.)

B. F. Perkins & Son. (See Putnam, Clesson W., assignor.)

B. F. Sturtevant Company. (See Balcome, Herbert A., assignor.)

B. F. Sturtevant Company. (See Maxfield, Daniel E., assignor.)

Baab, Jacob A., New York, N. Y. Gas-engine. No. 958,211; May 17; Sp. p. 3831; Gaz. vol. 154; p. 647.

Baab, Jacob A., assignor of one-half to D. Rohrer, New York, N. Y. Transmission apparatus. No. 958,212; May 17; Sp. p. 3832; Gaz. vol. 154; p. 648.

Baade, John, Waco, Tex. Machine for pressing shingles and slabs and the like. No. 965,359; July 26; Sp. p. 5103; Gaz. vol. 156; p. 875.

Baaden, Frank W., Newark, N. J. Flexible connection. No. 960,061; May 31; Sp. p. 7906; Gaz. vol. 154; p. 1327.

Baadnes, Bertram. (See Meyerson, Meyer, assignor.)

Baar, John, Philadelphia, Pa. Resilient tire. No. 962,297; June 21; Sp. p. 4324; Gaz. vol. 155; p. 746.

Baase, Henry C. (See Horlacher and Baase.)

Babb, Caleb W., Weiser, Idaho. Wire-stretcher. No. 972,049; Oct. 4; Sp. p. 1177; Gaz. vol. 159; p. 198.

Babb, Charles A. (See Lowder, Walter J., assignor.)

Babb, Christopher C., Dallas, Ga. Animal-poke. No. 966,881; Aug. 9; Sp. p. 2278; Gaz. vol. 157; p. 373.

Babb, Haven C., *et al.* (See Dunkle, Samuel K., assignor.)

Babb, James W., New London, Wis. Fire-extinguishing apparatus. No. 966,985; Aug. 9; Sp. p. 2485; Gaz. vol. 157; p. 409.

Babbitt, Elwin J., Onaway, Mich. Stovepipe-coupling. No. 962,298; June 21; Sp. p. 4326; Gaz. vol. 155; p. 746.

Babbitt, William A., Lockport, N. Y. Bread-mixer. No. 959,101; May 24; Sp. p. 5832; Gaz. vol. 154; p. 977.

Babcock, Alvin E., Battle Creek, Mich. Music-leaf turner. No. 950,037; Feb. 22; Sp. p. 4821; Gaz. vol. 151; p. 847.

Babcock, Annie, Minneapolis, Minn. Dish-washing apparatus. No. 970,872; Sept. 20; Sp. p. 3715; Gaz. vol. 158; p. 635.

Babcock Box Company. (See Prahl, Frederick A., assignor.)

Babcock, Clifford D., Jersey City, N. J., assignor to United Wireless Telegraph Company, New York, N. Y. Induction-meter. No. 947,092; Jan. 18; Sp. p. 4621; Gaz. vol. 150; p. 763.

Babcock, Clifford D., assignor to The United Wireless Telegraph Company, New York, N. Y. Wireless-telegraph receiving apparatus. No. 952,403; Mar. 15; Sp. p. 3900; Gaz. vol. 152; p. 698.

Babcock, Clifford D., assignor to United Wireless Telegraph Company, New York, N. Y. Space telegraphy. No. 965,060; July 19; Sp. p. 4469; Gaz. vol. 156; p. 744.

Babcock, Fales J., Syracuse, N. Y. Centrifugal separator. No. 973,248; Oct. 18; Sp. p. 3839; Gaz. vol. 159; p. 657.

Babcock, Garrison, assignor to Telechronometer Company, Rochester, N. Y. Apparatus for alternating the polarity of current in electric circuits. No. 947,781; Feb. 1; Sp. p. 5; Gaz. vol. 151; p. 3.

Babcock, Garrison, assignor to Simplex Telephone Equipment Company, Rochester, N. Y. Telephone apparatus. No. 969,832; Sept. 13; Sp. p. 1497; Gaz. vol. 158; p. 258.

Babcock, Garrison, assignor to Simplex Telephone Equipment Company, Rochester, N. Y. Telephone apparatus. No. 974,110; Nov. 1; Sp. p. 6; Gaz. vol. 160; p. 4.

Babcock, George H., Sharon, Conn. Gang-saw ice-machine. No. 955,744; Apr. 19; Sp. p. 4440; Gaz. vol. 153; p. 766.

Babcock, Josephine M., Spokane, Wash. Pillow-sham holder. No. 957,455; May 10; Sp. p. 2057; Gaz. vol. 154; p. 357.

Babcock & Wilcox Company, The. (See Bell, John E., assignor.)

Babcock & Wilcox Company, The. (See Higgins, Campbell P., assignor.)

Babcock & Wilcox Company, The. (See Maher, John J., assignor.)

Babcock & Wilcox Company, The. (See Munoz, Signono C., assignor.)

Babcock & Wilcox Company, The. (See Rosenthal and Spyer, assignors.)

Babcock & Wilcox Company, The. (See Sneddon, James P., assignor.)

Babel, Henry C., Buffalo, N. Y. Apparatus for the construction of plastic walls. No. 955,304; Apr. 19; Sp. p. 3468; Gaz. vol. 153; p. 616.

Babel, Henry C., Buffalo, N. Y. Apparatus for the construction of plastic walls. No. 964,604; July 19; Sp. p. 3446; Gaz. vol. 156; p. 589.

Babington, Thomas J., *et al.* (See Lemons, William D., assignor.)

Babington, Warren W., Sebring, Ohio. Saggar. No. 947,880; Feb. 1; Sp. p. 224; Gaz. vol. 151; p. 36.

Babington, William D., *et al.* (See Lemons, William D., assignor.)

Babio, José G., New York, N. Y. Window-cleaning chair. No. 947,191; Jan. 18; Sp. p. 4811; Gaz. vol. 150; p. 793.

Bach, Ingvald A., Trondhjem, Norway. Production of blanks for table-knives. No. 965,981; Aug. 2; Sp. p. 289; Gaz. vol. 157; p. 48.

Bach, Julius H., Chicago, Ill., assignor of two-thirds to The American Clay Machinery Co., Bucyrus, Ohio. Clay-tempering blade. No. 978,536; Dec. 13; Sp. p. 2413; Gaz. vol. 161; p. 416.

Bach, Leon E., assignor of one-half to C. F. Amsler, Rochester, N. Y. Disinfecting apparatus. No. 975,925; Nov. 15; Sp. p. 4064; Gaz. vol. 160; p. 685.

Bach, Louis P. (See Kranich and Bach.)

Bachand, Albert J., Providence, R. I. Piano-pedal. No. 975,670; Nov. 15; Sp. p. 3563; Gaz. vol. 160; p. 599.

Bacharach, Samuel, Philadelphia, Pa. Adjustable mirror and support. No. 965,430; July 26; Sp. p. 5251; Gaz. vol. 156; p. 899.

Bachelder, Elmer N., Portland, Me. Coffee-urn. No. 951,626; Mar. 8; Sp. p. 2360; Gaz. vol. 152; p. 409.

Bachelet, Emile, New York, N. Y. Electromagnet. No. 946,193; Jan. 11; Sp. p. 2604; Gaz. vol. 150; p. 432.

Bachman, Benjamin B. (See Clarke and Bachman.)

Bachman, Benjamin B., Philadelphia, assignor to The Autocar Company, Ardmore, Pa. Band-brake. No. 971,103; Sept. 27; Sp. p. 4185; Gaz. vol. 158; p. 739.

Bachman, Harry M., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Creaming and beating machine. No. 969,324; Sept. 6; Sp. p. 364; Gaz. vol. 158; p. 59.

Bachmann, Walter, Langengrobsdorf, near Gera, Germany. Brooder. No. 950,831; Mar. 1; Sp. p. 797; Gaz. vol. 152; p. 127.

Bacigalupi, Natalin, Fair Haven, N. J. Sprinkling apparatus. No. 951,519; Mar. 8; Sp. p. 2150; Gaz. vol. 152; p. 373.

Backer, Charles, Plainfield, N. J. Shifting-rack bed movement. No. 952,973; Mar. 22; Sp. p. 5131; Gaz. vol. 152; p. 921.

Backer, Charles, assignor of forty-nine one-hundredths to R. Rosenfeld, New York, N. Y. Electric motor. No. 979,637; Dec. 27; Sp. p. 4797; Gaz. vol. 161; p. 842.

Backer, George, Syracuse, N. Y. Vacuum-cleaner. No. 969,441; Sept. 6; Sp. p. 611; Gaz. vol. 158; p. 97.

Backscheider, Frank J., Cincinnati, Ohio. Portable electrical tool. No. 964,197; July 12; Sp. p. 2543; Gaz. vol. 156; p. 419.

Backstay Machine and Leather Company. (See Schemmel, Robert C., assignor.)

Backstrom, Charles A., Philadelphia, Pa., assignor to International Power Generator Company. Elastic-fluid turbine. No. 974,457; Nov. 1; Sp. p. 882; Gaz. vol. 160; p. 130.

Backstrom, Charles A., Philadelphia, Pa., assignor to International Power Generator Company. Utilizing products of combustion and apparatus therefor. No. 974,458; Nov. 1; Sp. p. 884; Gaz. vol. 160; p. 130.

Backstrom, Charles A., Philadelphia, Pa., assignor to International Power Generator Company. Burner for combustion under high pressure. No. 974,624; Nov. 1; Sp. p. 1248; Gaz. vol. 160; p. 192.

Alphabetical list of patentees—Continued.

Bacon, Frank, West Nottingham, Ohio. Nut-lock. No. 946,713; Jan. 18; Sp. p. 3791; Gaz. vol. 150; p. 634.
Bacon, Frank W., *et al.* (See Anson, Warren J., assignor.)
Bacon, George D., Guerneville, Cal. Logging-jack. No. 968,312; Aug. 23; Sp. p. 5283; Gaz. vol. 157; p. 911.
Bacon, George T. (See Brown and Bacon.)
Bacon, George W., assignor of one-half to E. A. Yelton, Grand Junction, Colo. Threadless nut-lock. No. 969,325; Sept. 6; Sp. p. 365; Gaz. vol. 158; p. 60.
Bacon, Gilbert and M. L., Antigo, Wis. Rail-joint. No. 972,148; Oct. 11; Sp. p. 1370; Gaz. vol. 159; p. 250.
Bacon, H. T. (See Brand, George M., assignor.)
Bacon, Herbert T., Brighton, Colo. Horseshoe. No. 950,426; Feb. 22; Sp. p. 5581; Gaz. vol. 151; p. 978.
Bacon, Jeremiah W. (See Beckwith and Bacon.)
Bacon, Levi S., Washington, D. C., assignor to The Railroad Supply Company, Chicago, Ill. Bonding-pin. No. 961,475; June 14; Sp. p. 2542; Gaz. vol. 155; p. 445.
Bacon, Milton L. (See Bacon, Gilbert and M. L.)
Badder, Harry C., Liverpool, England. Construction of doors, panelings, or the like. No. 968,108; Aug. 23; Sp. p. 4833; Gaz. vol. 157; p. 839.
Badeau, Charles C., Swissvale, assignor to Switchboard Equipment Company, Pittsburg, Pa. Circuit-opener. No. 976,838; Nov. 29; Sp. p. 6067; Gaz. vol. 160; p. 1046.
Badeau, Harry U. (See Poole and Badeau.)
Badeau, Harry U., assignor to The Bryant Electric Company, Bridgeport, Conn. Incandescent-lamp receptacle. No. 960,808; June 7; Sp. p. 1157; Gaz. vol. 155; p. 193.
Badeker, John, assignor of one-half to N. W. Anderson, Omaha, Nebr. Metallic rod-packing. No. 975,313; Nov. 8; Sp. p. 2788; Gaz. vol. 160; p. 450.
Baden, Charles, Hackensack, N. J. Compound engine. No. 961,094; June 14; Sp. p. 1732; Gaz. vol. 155; p. 314.
Bader, Gustav A., Rochester, N. Y. Eyeglasses. No. 946,652; Jan. 18; Sp. p. 3668; Gaz. vol. 150; p. 614.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 957,925; May 17; Sp. p. 3041; Gaz. vol. 154; p. 546.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 965,852; Aug. 2; Sp. p. 12; Gaz. vol. 157; p. 4.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. (Reissue.) No. 13,151; Sept. 20; Sp. p. 3977; Gaz. vol. 158; p. 680.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 978,809; Dec. 13; Sp. p. 2987; Gaz. vol. 161; p. 506.
Bader, Gustav A., Rochester, N. Y. Eyeglasses. No. 978,810; Dec. 13; Sp. p. 2987; Gaz. vol. 161; p. 506.
Bader, Herbert D., assignor to Simmons Hardware Company, St. Louis, Mo. Combined nail clipper and file. No. 967,598; Aug. 16; Sp. p. 3760; Gaz. vol. 157; p. 646.
Bader, Leopold, Pillichsdorf, Austria-Hungary. Remedy for swine fever, plague, &c. No. 979,054; Dec. 20; Sp. p. 3533; Gaz. vol. 161; p. 618.
Badger, Alonzo, assignor of one-half to H. Tunzat, Oceanpark, Cal. Life-preserving swimming-jacket. No. 961,282; June 14; Sp. p. 2126; Gaz. vol. 155; p. 381.
Badger, Arthur C., Newton Center, assignor to E. B. Badger & Sons Company, Boston, Mass. Sterilizing-hopper. No. 964,838; July 19; Sp. p. 4025; Gaz. vol. 156; p. 670.
Badger Brass Mfg. Co., The. (See Welles, Richard H., assignor.)
Badger, Sanford N., Derby, Ind. Lock. No. 949,409; Feb. 15; Sp. p. 3442; Gaz. vol. 151; p. 600.
Badger, Walter A., Bellefontaine, Ohio. Carrier attachment for hay-cars. No. 945,258; Jan. 4; Sp. p. 526; Gaz. vol. 150; p. 86.
Badgley, Lawrence J., Florissant, assignor of one-half to H. L. Redecker, Denver, Colo. Adjustable vehicle-brake-block holder. No. 974,012; Oct. 25; Sp. p. 5454; Gaz. vol. 159; p. 945.
Badgley, Robert T., New York, N. Y. Pneumatic tire. No. 952,175; Mar. 15; Sp. p. 3455; Gaz. vol. 152; p. 622.
Badische Anilin & Soda Fabrik. (See Bohn, René, assignor.)
Badische Anilin & Soda Fabrik. (See Bosch, Carl, assignor.)
Badische Anilin & Soda Fabrik. (See Haber and Le Rossignol, assignors.)
Badische Anilin & Soda Fabrik. (See Isler and Wolff, assignors.)
Badische Anilin & Soda Fabrik. (See Julius and Fussenegger, assignors.)
Badische Anilin & Soda Fabrik. (See Julius, Villiger, and Nawiasky, assignors.)
Badische Anilin & Soda Fabrik. (See Kačer, Filip, assignor.)
Badische Anilin & Soda Fabrik. (See Lüttringhaus, Arthur, assignor.)
Badische Anilin & Soda Fabrik. (See Münch, Eduard, assignor.)
Badische Anilin & Soda Fabrik. (See Oberreit, Villiger, and Nawiasky, assignors.)
Badische Anilin & Soda Fabrik. (See Schmid, Henri, assignor.)
Badische Anilin & Soda Fabrik. (See Scholl and Isler, assignors.)
Badische Anilin & Soda Fabrik. (See Schönherr and Hessberger, assignors.)
Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff. (See Dietmann and Violon, assignors.)
Badrow, Albert W., Brooklyn, N. Y. One-piece loose-leaf binder. No. 961,064; June 7; Sp. p. 1660; Gaz. vol. 155; p. 277.
Baechlin, Frederick G., Bloomfield, N. J. Window. No. 970,009; Sept. 13; Sp. p. 1875; Gaz. vol. 158; p. 319.
Baehr, George, McKeesport, Pa. Spark-plug. No. 972,798; Oct. 18; Sp. p. 2793; Gaz. vol. 159; p. 499.
Baekeland, Leo H., Yonkers, N. Y. Indurating fibrous and cellular material. No. 949,671; Feb. 15; Sp. p. 3922; Gaz. vol. 151; p. 684.
Baekeland, Leo H., Yonkers, N. Y. Varnish. No. 954,666; Apr. 12; Sp. p. 2092; Gaz. vol. 153; p. 367.
Baekeland, Leo H., Yonkers, N. Y. Container for food products. No. 957,137; May 3; Sp. p. 1352; Gaz. vol. 154; p. 216.
Baer, Albert, Mannheim, Germany. Making cigars with hollow tips. No. 956,022; Apr. 26; Sp. p. 5046; Gaz. vol. 153; p. 892.
Baer, Alvin H., assignor to Frick Company, Waynesboro, Pa. Agitator for refrigerating liquids. No. 953,576; Mar. 29; Sp. p. 6454; Gaz. vol. 152; p. 1154.
Baer, Alvin H., assignor to Frick Company, Waynesboro, Pa. Ammonia-condenser and liquid-cooler. No. 953,577; Mar. 29; Sp. p. 6456; Gaz. vol. 152; p. 1155.
Baer, David O. (See Hayner and Baer.)
Baer, John G., *et al.* (See Perew and Dischinger, assignors.)
Baer, Julius, New York, N. Y. Hair-net. No. 961,476; June 14; Sp. p. 2544; Gaz. vol. 155; p. 446.
Baerlocker, Robert F., Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Controller for electric motors. No. 969,509; Sept. 6; Sp. p. 756; Gaz. vol. 158; p. 119.
Baerresen, Harold W., and E. C. Schmidt, Denver, Colo., assignors to Colorado Manufacturing and Construction Company. Radiator-top. No. 946,691; Jan. 18; Sp. p. 3751; Gaz. vol. 150; p. 627.
Baeumle, John, Milwaukee, Wis. Billiard-cue. No. 951,790; Mar. 15; Sp. p. 2712; Gaz. vol. 152; p. 495.
Bagby, Eugene A., Louisville, Ky. Index system. No. 955,038; Apr. 12; Sp. p. 2923; Gaz. vol. 153; p. 495.
Baggaley, Ralph, Pittsburg, Pa. Converter. No. 977,922; Dec. 6; Sp. p. 1089; Gaz. vol. 161; p. 173.
Baggaley, Ralph, Pittsburg, Pa. Smelting and refining copper ores and compounds. No. 977,996; Dec. 6; Sp. p. 1231; Gaz. vol. 161; p. 198.
Baggett, John W., Erin, Tenn. Wire-stretcher. No. 979,915; Dec. 27; Sp. p. 5410; Gaz. vol. 161; p. 935.
Bagley, Perkins H., San Francisco, Cal. Hot blast for boiler-furnaces. No. 955,573; Apr. 19; Sp. p. 4031; Gaz. vol. 153; p. 707.
Bagley, Victor, Topsham, Me. Hanger for electric fixtures and the like. No. 945,074; Jan. 4; Sp. p. 144; Gaz. vol. 150; p. 24.
Bagley, William W., New York, N. Y. Tubular receptacle. No. 971,958; Oct. 4; Sp. p. 1000; Gaz. vol. 159; p. 167.
Bagnall, Sidney T., Rochester, N. Y. Implement-handle fastening. No. 967,703; Aug. 16; Sp. p. 3960; Gaz. vol. 157; p. 679.
Bagnell, Samuel, Hankinson, Miss. Wheel. No. 965,681; July 26; Sp. p. 5812; Gaz. vol. 156; p. 987.
Baguley, George T., assignor of one-half to W. J. Lytle, Toronto, Ontario, Canada. Fruit-jar holder. No. 972,091; Oct. 4; Sp. p. 1252; Gaz. vol. 159; p. 212.
Baguley, James, Evanston, Wyo. Rotary pump. No. 978,350; Dec. 13; Sp. p. 2020; Gaz. vol. 161; p. 352.
Bahney, Charles S., Carthage, Mo. Means for preparing and fixing blasting charges. No. 947,289; Jan. 25; Sp. p. 5063; Gaz. vol. 150; p. 856.
Bahr, Amel F. and O. B., Marion, Ind. Paper-pulp mill. No. 946,752; Jan. 18; Sp. p. 3884; Gaz. vol. 150; p. 648.
Bahr, Carl W. (See Thompson and Bahr.)
Bahr, Caroline C., *et al.* (See Berry, Robert L. F., assignor.)
Bahr, Otto B. (See Bahr, Amel F. and O. B.)
Baigné, Ovila, Montreal, Quebec, Canada. Window. No. 946,491; Jan. 11; Sp. p. 3340; Gaz. vol. 150; p. 536.
Bailey, Albert W., Spokane, Wash. Time-controlling mechanism. No. 948,718; Feb. 8; Sp. p. 1990; Gaz. vol. 151; p. 341.
Bailey, Albert W., Spokane, Wash. Time-controlled mechanism. No. 967,304; Aug. 16; Sp. p. 3147; Gaz. vol. 157; p. 545.
Bailey, Albert W., Spokane, Wash. Electric-switch-operating means. No. 968,520; Aug. 30; Sp. p. 5716; Gaz. vol. 157; p. 1007.
Bailey, Albert W., Stewardson, Ill. Wind-motor. No. 955,305; Apr. 19; Sp. p. 3470; Gaz. vol. 153; p. 616.
Bailey, Arthur E. (See Ryder, George W., assignor.)
Bailey, Benjamin F., Escanaba, Mich. Exerciser. No. 956,264; Apr. 26; Sp. p. 5598; Gaz. vol. 153; p. 976.
Bailey, Carroll H., North Troy, N. Y. Vehicle-wheel. No. 973,249; Oct. 18; Sp. p. 3842; Gaz. vol. 159; p. 657.
Bailey, Charles A., Cromwell, Conn. Manufacturing cartridge-shells. No. 977,497; Dec. 6; Sp. p. 152; Gaz. vol. 161; p. 26.

Alphabetical list of patentees—Continued.

Bailey, Charles A., assignor to C. B. Frisbie, Cromwell, Conn. Toy bank. No. 965,842; July 26; Sp. p. 6148; Gaz. vol. 156; p. 1042.

Bailey, Charles A., assignor to C. B. Frisbie, Cromwell, Conn. Toy bank. No. 965,843; July 26; Sp. p. 6149; Gaz. vol. 156; p. 1043.

Bailey, Charles H. H., South Braintree, Mass. Assorting and routing case for post-offices. No. 956,925; May 3; Sp. p. 924; Gaz. vol. 154; p. 147.

Bailey, Charles J., Newton, Mass. Elastic tread. No. 954,413; Apr. 12; Sp. p. 1521; Gaz. vol. 153; p. 279.

Bailey, Clarence J., and W. Jansen, Dryden, N. Y. Spring-wheel. No. 966,296; Aug. 2; Sp. p. 955; Gaz. vol. 157; p. 152.

Bailey, Edgerly R., Clarinda, Iowa. Cream-separator liner. No. 945,903; Jan. 11; Sp. p. 2006; Gaz. vol. 150; p. 333.

Bailey, Edgerly R., Clarinda, Iowa. Device for assembling parts of a centrifugal separating-bowl. No. 959,693; May 31; Sp. p. 7057; Gaz. vol. 154; p. 1198.

Bailey, F. C., *et al.* (See Milton, John F., assignor.)

Bailey, Fess, Woodville, Fla., assignor to A. J. Conoly, Quitman, Ga. Dipper for turpentine-cups. No. 969,765; Sept. 13; Sp. p. 1330; Gaz. vol. 158; p. 235.

Bailey-Filson Company. (See Rojas, Floricel A., assignor.)

Bailey, Frank R., Kalamazoo, Mich. Pen-extractor. No. 972,146; Oct. 11; Sp. p. 1368; Gaz. vol. 159; p. 250.

Bailey, George C., Bluefield, W. Va. Swimming appliance. No. 967,144; Aug. 9; Sp. p. 2829; Gaz. vol. 157; p. 464.

Bailey, George H. (See Rowswell, William H., assignor.)

Bailey, George H., Pittsburg, Pa. Tank for water-closets, &c. No. 948,657; Feb. 8; Sp. p. 1858; Gaz. vol. 151; p. 320.

Bailey, George H., Pittsburg, Pa. Tank for water-closets, &c. No. 948,658; Feb. 8; Sp. p. 1859; Gaz. vol. 151; p. 321.

Bailey, George H., Pittsburg, Pa. Flushing-tank. No. 963,738; July 12; Sp. p. 1580; Gaz. vol. 156; p. 266.

Bailey, George H., Pittsburg, Pa. Flushing-tank. No. 969,442; Sept. 6; Sp. p. 614; Gaz. vol. 158; p. 98.

Bailey, Herbert L., assignor to Handy Things Company, Ludington, Mich. Window-cleaner. No. 948,641; Feb. 8; Sp. p. 1831; Gaz. vol. 151; p. 314.

Bailey, James G., Delavan, Ill. Hay-rack. No. 966,418; Aug. 9; Sp. p. 1191; Gaz. vol. 157; p. 217.

Bailey, James H., New York, N. Y. Register or ventilator. No. 978,129; Dec. 13; Sp. p. 1552; Gaz. vol. 161; p. 275.

Bailey, John A., and C. F. Purkitt, Willows, Cal. Tire-protector. No. 967,704; Aug. 16; Sp. p. 3962; Gaz. vol. 157; p. 680.

Bailey, Lawson J. (See Frampton and Bailey.)

Bailey, Lorenzo C., Chicago, Ill. Curtain-fastener. No. 962,879; June 28; Sp. p. 5564; Gaz. vol. 155; p. 973.

Bailey, Martha A., Lima, Ohio. Package-tie. No. 961,833; June 21; Sp. p. 3304; Gaz. vol. 155; p. 589.

Bailey, Percy T., Newport, R. I. Anchoring-base for posts. No. 952,404; Mar. 15; Sp. p. 3903; Gaz. vol. 152; p. 699.

Bailey, Percy T., Newport, R. I. Fence-post and anchorage-base. No. 959,286; May 24; Sp. p. 6210; Gaz. vol. 154; p. 1037.

Bailey, Percy T., Newport, R. I. Anchoring-base for posts. No. 966,155; Aug. 2; Sp. p. 663; Gaz. vol. 157; p. 106.

Bailey, Samuel R., Amesbury, Mass. Wood-bending machine. No. 973,401; Oct. 18; Sp. p. 4169; Gaz. vol. 159; p. 711.

Bailey, Samuel R., assignor to S. R. Bailey & Co., Inc., Amesbury, Mass. Vehicle-body. No. 955,494; Apr. 19; Sp. p. 3880; Gaz. vol. 153; p. 681.

Bailey, Seth G., Denver, Colo., assignor of one-fourth to M. Beck, New York, N. Y., and one-fourth to A. C. Carson, Denver, Colo. Mechanism for handling hanging scenery. No. 977,498; Dec. 6; Sp. p. 154; Gaz. vol. 161; p. 27.

Bailey, Seth G., Denver, Colo., assignor of one-fourth to M. Beck, New York, N. Y., and one-fourth to A. C. Carson, Denver, Colo. Apparatus for raising and lowering hanging scenery and other loads. No. 977,499; Dec. 6; Sp. p. 159; Gaz. vol. 161; p. 27.

Bailey, Seth G., Denver, Colo., assignor of one-fourth to M. Beck, New York, N. Y., and one-fourth to A. C. Carson, Denver, Colo. Apparatus for handling hanging scenery. No. 977,500; Dec. 6; Sp. p. 167; Gaz. vol. 161; p. 28.

Bailey, Theodorus S. (See Cable and Bailey.)

Bailey, Vernon T., New York, N. Y. Electric-lamp socket. No. 956,265; Apr. 26; Sp. p. 5600; Gaz. vol. 153; p. 976.

Bailey, Walter F., assignor of one-half to M. S. Mickelson and A. P. Jensen, Los Angeles, Cal. Wrench. No. 975,671; Nov. 15; Sp. p. 3564; Gaz. vol. 160; p. 599.

Bailey, William J., Aspinwall, Pa. Sign. No. 955,745; Apr. 19; Sp. p. 4443; Gaz. vol. 153; p. 766.

Bailey, William J., Monrovia, Cal. Solar heater. No. 966,070; Aug. 2; Sp. p. 489; Gaz. vol. 157; p. 79.

Bailey, William T., Elmira, N. Y., assignor to Carter-Crume Company, Ltd., Toronto, Canada. Paper-transmitting mechanism. No. 977,501; Dec. 6; Sp. p. 173; Gaz. vol. 161; p. 28.

Bailey, Willis W., Chadwick, Ill. Post-forming mold. No. 947,093; Jan. 18; Sp. p. 4622; Gaz. vol. 150; p. 763.

Bailhache, John M., San Francisco, Cal. Baggage-check. No. 957,484; May 10; Sp. p. 2109; Gaz. vol. 154; p. 366.

Bailhache, Solon W., Vallejo, Cal. Electric-lamp support. No. 960,618; June 7; Sp. p. 785; Gaz. vol. 155; p. 128.

Bailley, Albert A., Cohoes, N. Y. Bench-anvil. No. 956,023; Apr. 26; Sp. p. 5048; Gaz. vol. 153; p. 892.

Baillot, Alphonse, and A. Ménager, Montreal, Quebec, Canada. Furnace-grate. No. 971,104; Sept. 27; Sp. p. 4187; Gaz. vol. 158; p. 739.

Baily, Thaddeus F., Alliance, Ohio. Forging-press. No. 955,122; Apr. 19; Sp. p. 3075; Gaz. vol. 153; p. 553.

Baily, Thaddeus F., Alliance, Ohio. Apparatus for metal working. No. 960,772; June 7; Sp. p. 1083; Gaz. vol. 155; p. 181.

Baily, Thaddeus F., Alliance, Ohio. Electric furnace. No. 960,773; June 7; Sp. p. 1084; Gaz. vol. 155; p. 181.

Bain, Benjamin F., Pittsburg, Pa., assignor to Wolverine Supply & Manufacturing Company. Jar-holder. No. 970,365; Sept. 13; Sp. p. 2596; Gaz. vol. 158; p. 439.

Bain, Benjamin M., Winnipeg, Manitoba, Canada. Ironing-board. No. 958,071; May 17; Sp. p. 3557; Gaz. vol. 154; p. 599.

Bain, Forée. (See McIntosh and Bain.)

Bain, Foree. (See Purdy, Frederick, assignor.)

Bain, Robert C., Chicago, Ill. Sliding leg for trunks. No. 949,459; Feb. 15; Sp. p. 3518; Gaz. vol. 151; p. 615.

Bainbridge, Barry M. (See Heagney, Elmer D., assignor.)

Bainer, Joseph M., Marysville, Ohio. Kitchen-cabinet. No. 955,746; Apr. 19; Sp. p. 4444; Gaz. vol. 153; p. 767.

Bair, Arthur R., Stickney, S. D. Window-glass-securing strip. No. 974,013; Oct. 25; Sp. p. 5456; Gaz. vol. 159; p. 945.

Bair, Clarence L., San Francisco, Cal., assignor, by mesne assignments, to Auto Specialties Manufacturing Company. Vehicle-top bow-holder. No. 967,305; Aug. 16; Sp. p. 3149; Gaz. vol. 157; p. 545.

Bair, David W., Des Moines, Iowa. Sectional bookcase. No. 946,872; Jan. 18; Sp. p. 4193; Gaz. vol. 150; p. 691.

Bair, Eramus V., Kansas City, Kans. Spring bed-bottom. No. 964,480; July 19; Sp. p. 3134; Gaz. vol. 156; p. 545.

Bair, Thomas. (See Hunter, William F., assignor.)

Baird, Albert D., Bridgeport, Conn. Trace and backer loop. No. 971,655; Oct. 4; Sp. p. 304; Gaz. vol. 159; p. 54.

Baird, Albert H., Delta, Colo. Composition toothpick. No. 973,842; Oct. 25; Sp. p. 5096; Gaz. vol. 159; p. 885.

Baird, Archie M., Topeka, Kans., assignor of one-third to W. H. Holmes and one-third to M. Wollman, Kansas City, Mo. Metallic railway-tie. No. 946,530; Jan. 18; Sp. p. 3433; Gaz. vol. 150; p. 577.

Baird, Cassius M. C., Evanston, Ill. Hose construction. No. 979,408; Dec. 27; Sp. p. 4299; Gaz. vol. 161; p. 762.

Baird, Charles W., Deep River, Iowa. Veterinary impregnating instrument. No. 945,739; Jan. 11; Sp. p. 1616; Gaz. vol. 150; p. 274.

Baird, Grace S., administratrix. (See Baird, William C.)

Baird, Henry, *et al.* (See Good, Thomas L., assignor.)

Baird, James B., Canton, Ohio. Chill. No. 972,429; Oct. 11; Sp. p. 1975; Gaz. vol. 159; p. 346.

Baird, Jasper M., *et al.* (See Humphrey, Edwin H., assignor.)

Baird, John V., Springfield, assignor of one-half to M. C. McMillan, Wilmington, Ohio. Foldable umbrella. No. 951,898; Mar. 15; Sp. p. 2935; Gaz. vol. 152; p. 531.

Baird, Robert, West Orange, N. J. Machine for forming cigarette-wrappers. No. 953,503; Mar. 29; Sp. p. 6297; Gaz. vol. 152; p. 1129.

Baird, Robert J., *et al.* (See Good, Thomas L., assignor.)

Baird, Robert P., Berry, Ky. Trousers-stretcher. No. 958,576; May 17; Sp. p. 4712; Gaz. vol. 154; p. 773.

Baird, Samuel H. (See Lewis, George W., assignor.)

Baird, Walter, Pittsburg, Kans. Process of and apparatus for lining pneumatic tires. No. 951,980; Mar. 15; Sp. p. 3090; Gaz. vol. 152; p. 558.

Baird, Walter, Pittsburg, Kans. Driving-gear for motor-vehicles. No. 968,521; Aug. 30; Sp. p. 5718; Gaz. vol. 157; p. 1008.

Baird, William C., deceased, New York, N. Y.; G. S. Baird, administratrix. Fire-escape. No. 946,194; Jan. 11; Sp. p. 2606; Gaz. vol. 150; p. 433.

Baisden, Edward J., Topeka, Kans. Rim-bearing wheel. No. 970,291; Sept. 13; Sp. p. 2460; Gaz. vol. 158; p. 414.

Bajohr, Carl, St. Louis, Mo. Lightning-conductor point and point-rod protector. No. 963,496; July 5; Sp. p. 1067; Gaz. vol. 156; p. 162.

Bajoni, Marcello, Milan, Italy. Mounting of precious stones for ear-rings or the like. No. 964,369; July 12; Sp. p. 2891; Gaz. vol. 156; p. 477.

Bajusz, Paul. (See Kondás and Bajusz.)

Bajusz, Paul, Woodriver, Ill. Brush. No. 946,314; Jan. 11; Sp. p. 2875; Gaz. vol. 150; p. 477.

Bajusz, Paul, and A. Kondás, Woodriver, Ill. Wrench. No. 971,341; Sept. 27; Sp. p. 4668; Gaz. vol. 158; p. 816.

Bake, Cyrus F., Fullerton, Nebr. Garment-hanger. No. 946,833; Jan. 18; Sp. p. 4093; Gaz. vol. 150; p. 677.

Baker, Andrew C., Albion, Mich. Dump-wagon. No. 967,154; Aug. 16; Sp. p. 2853; Gaz. vol. 157; p. 494.

Baker, Arthur D., South Bend, Ind. Steering device for vehicles. No. 969,766; Sept. 13; Sp. p. 1331; Gaz. vol. 158; p. 235.

Baker, Burton E., assignor to The Baker Electric Company, Hartford, Conn. Nebulizer. No. 950,738; Mar. 1; Sp. p. 600; Gaz. vol. 152; p. 94.

Alphabetical list of patentees—Continued.

Baker, Charles A., assignor to Sterling Wheelbarrow Company, Milwaukee, Wis. Meat-truck. No. 946,095; Jan. 11; Sp. p. 2395; Gaz. vol. 150; p. 399.
Baker, Charles A., assignor to Sterling Wheelbarrow Company, Milwaukee, Wis. Concrete-cart. No. 970,457; Sept. 20; Sp. p. 2787; Gaz. vol. 158; p. 489.
Baker, Charles E. (See Raymond and Baker.)
Baker, Charles E., Chicago, Ill. Treating ores. No. 972,149; Oct. 11; Sp. p. 1372; Gaz. vol. 159; p. 251.
Baker, Charles F., and F. C. Kimble, Chicago, Ill. Combined rain and wind shield. No. 950,505; Mar. 1; Sp. p. 97; Gaz. vol. 152; p. 16.
Baker, Charles H. (See MacFarland and Baker.)
Baker, David. (See Ladd and Baker.)
Baker, David, Philadelphia, Pa., assignor to Ladd & Baker, Incorporated. Rotary furnace. No. 968,313; Aug. 23; Sp. p. 5286; Gaz. vol. 157; p. 911.
Baker, Edgar M. (See Forshee, James H., assignor.)
Baker Electric Company, The. (See Baker, Burton E., assignor.)
Baker, Erle K. (See Hawley and Baker.)
Baker, Frank, Dalton, N. Y. Water-gage. No. 958,072; May 17; Sp. p. 3559; Gaz. vol. 154; p. 599.
Baker, Frank D., Corsica, Ohio. Automobile-wheel. No. 969,024; Aug. 30; Sp. p. 6775; Gaz. vol. 157; p. 1180.
Baker, Frank D., Denver, Colo. Apparatus for washing, grading, and classifying coal or other material. No. 976,425; Nov. 22; Sp. p. 5188; Gaz. vol. 160; p. 881.
Baker, Frank, and H. Baker, Mount Pleasant, S. C. Salting peanuts in the shell. No. 966,514; Aug. 9; Sp. p. 1467; Gaz. vol. 157; p. 251.
Baker, George C. (See West and Baker.)
Baker, George J., Royal Oak, Mich. Astronomical apparatus. No. 949,348; Feb. 15; Sp. p. 3300; Gaz. vol. 151; p. 578.
Baker, George S., London, England. Vacuum-pan. No. 956,508; May 3; Sp. p. 5; Gaz. vol. 154; p. 3.
Baker, George S., Willesden Junction, London, England. Baker's oven. No. 964,370; July 12; Sp. p. 2892; Gaz. vol. 156; p. 478.
Baker, George S., and G. W. Perks, London, England. Machine for molding chocolate and the like. No. 947,405; Jan. 25; Sp. p. 5352; Gaz. vol. 150; p. 897.
Baker, Gertrude, Portland, Oreg. Saleswoman's pocket. No. 967,487; Aug. 16; Sp. p. 3537; Gaz. vol. 157; p. 608.
Baker, Gilbert F. (See Moffett, Baker, and Robeson.)
Baker, Godfrey H. M., Ottawa, Ontario, Canada. Saw guiding and feeding device. No. 969,240; Sept. 6; Sp. p. 200; Gaz. vol. 158; p. 33.
Baker, Harrie E., and W. R. Johnson, Inwood, Iowa. Cement-block machine. No. 975,108; Nov. 8; Sp. p. 2332; Gaz. vol. 160; p. 381.
Baker, Harry M. (See Matthews, Charles, assignor.)
Baker, Henry S., Oklahoma, Okla. Shield-carrying saddle. No. 967,306; Aug. 16; Sp. p. 3150; Gaz. vol. 157; p. 545.
Baker, Horace G. (See Abbott and Baker.)
Baker, Hyman. (See Baker, Frank and H.)
Baker, James H., Pittsburg, Pa. Spring-plank for car-trucks. No. 949,292; Feb. 15; Sp. p. 3168; Gaz. vol. 151; p. 558.
Baker, James H., Pittsburg, Pa. Side frame for car-trucks. No. 958,462; May 17; Sp. p. 4496; Gaz. vol. 154; p. 736.
Baker, James H., Springfield, Ill. Expansion-bolt. No. 966,515; Aug. 9; Sp. p. 1469; Gaz. vol. 157; p. 252.
Baker, James Z. H., Hasbrouck Heights, N. J. Window construction. No. 954,606; Apr. 12; Sp. p. 1945; Gaz. vol. 153; p. 345.
Baker, Jean M., Los Angeles, Cal. Turn-table. No. 968,229; Aug. 23; Sp. p. 5108; Gaz. vol. 157; p. 880.
Baker, Jessie L., *et al.* (See Peddy, Thomas T., assignor.)
Baker, John H., and J. A. French, Toronto, Ontario, Canada. Car-ticket holder. No. 958,577; May 17; Sp. p. 4713; Gaz. vol. 154; p. 774.
Baker, John W. (See Parker, George H., assignor.)
Baker, John W., Ellsworth, Kans. Hydrocarbon lighting system. No. 978,811; Dec. 13; Sp. p. 2989; Gaz. vol. 161; p. 506.
Baker, Jonathan H., and D. Anderson, McKeesport, assignors to National Tube Company, Pittsburg, Pa. Apparatus for tapping couplings. No. 947,727; Jan. 25; Sp. p. 6029; Gaz. vol. 150; p. 1004.
Baker, Joseph L. (See Knox, George, assignor.)
Baker, Le Roy, assignor of one-half to A. A. Eberson, St. Louis, Mo. Making barium sulfite. No. 967,488; Aug. 16; Sp. p. 3539; Gaz. vol. 157; p. 608.
Baker, Malcolm H., New York, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Self-regulating arc-lamp. No. 969,510; Sept. 6; Sp. p. 758; Gaz. vol. 158; p. 120.
Baker, Manuel J., and V. M. Pierce, Buffalo, N. Y. Clothes-pounder. No. 957,298; May 10; Sp. p. 1740; Gaz. vol. 154; p. 304.
Baker and Martin Manufacturing Company. (See Abbott and Baker, assignors.)
Baker, Milo A., Los Angeles, Cal. Automobile transfer turn-table. No. 957,536; May 10; Sp. p. 2224; Gaz. vol. 154; p. 385.
Baker, Milo A., Los Angeles, Cal. Automobile-transfer turn-table. No. 968,230; Aug. 23; Sp. p. 5110; Gaz. vol. 157; p. 880.
Baker Motor Vehicle Company, The. (See Gruenfeldt, Emil, assignor.)
Baker Motor Vehicle Company, The. (See Remde, Edward H., assignor.)
Baker, Otis H., Columbus, Ohio. Car-transferring device. No. 955,039; Apr. 12; Sp. p. 2924; Gaz. vol. 153; p. 495.
Baker, Raymond W., New York, N. Y., V. L. King, Woodridge, N. J., and H. C. Parker, assignors to Parker-Clark Electric Company, New York, N. Y. Radiant electric heater. No. 977,361; Nov. 29; Sp. p. 7236; Gaz. vol. 160; p. 1228.
Baker, Richard W., Roselle, N. J., assignor to The Watson-Stillman Company. Hydraulic jack. No. 957,177; May 10; Sp. p. 1458; Gaz. vol. 154; p. 260.
Baker, Stephen D., New York, N. Y. Fireless cooker. No. 950,589; Mar. 1; Sp. p. 260; Gaz. vol. 152; p. 43.
Baker, Thomas E. (See Hough and Turner, assignors.)
Baker, Tom W., London, England. Vehicle-wheel. No. 969,241; Sept. 6; Sp. p. 201; Gaz. vol. 158; p. 33.
Baker, Walter, Wapato, Wash. Riveting-machine. No. 971,483; Sept. 27; Sp. p. 4918; Gaz. vol. 158; p. 862.
Baker, Willard D., assignor of one-half to J. W. Robinson, Rogers, Ark. Clothes-cabinet. No. 969,025; Aug. 30; Sp. p. 6776; Gaz. vol. 157; p. 1181.
Baker, William A., and F. W. Gros Claude, Toledo, Ohio. Urinal. No. 945,837; Jan. 11; Sp. p. 1857; Gaz. vol. 150; p. 310.
Baker, William F., Bloomington, Ill. Horse-collar. No. 963,497; July 5; Sp. p. 1069; Gaz. vol. 156; p. 163.
Baker, William F., Antlers, Okla. Engine for grate-shakers. No. 975,314; Nov. 8; Sp. p. 2790; Gaz. vol. 160; p. 451.
Baker, William H. (See Crawford, James, assignor.)
Baker, William J., Newport, Ky. Window-screen. No. 953,680; Apr. 5; Sp. p. 4; Gaz. vol. 153; p. 3.
Baker, William J., assignor of one-half to L. G. Gridley, Oswego, N. Y. Hammer flue-cleaner. No. 979,121; Dec. 20; Sp. p. 3713; Gaz. vol. 161; p. 643.
Baker, William N., Salem, Ohio. Window-pane fastener. No. 971,816; Oct. 4; Sp. p. 635; Gaz. vol. 159; p. 112.
Balachowsky, Dmitry, Paris, and P. Caire, Levallois-Paris, France. Speed-controlling device applicable to electric motors and generators. No. 960,774; June 7; Sp. p. 1088; Gaz. vol. 155; p. 182.
Balch, Charles F., Earl, Ark. Tape-measure. No. 978,426; Dec. 13; Sp. p. 2184; Gaz. vol. 161; p. 378.
Balch, Frank, Cleveland, N. D. Shock-loader. No. 974,014; Oct. 25; Sp. p. 5457; Gaz. vol. 159; p. 946.
Balch, Stephen E., Holderness, N. H Camp-stove. No. 963,030; July 5; Sp. p. 7; Gaz. vol. 156; p. 3.
Balcom, Ebenezer B., Milwaukee, Wis., and G. P. Balcom, Houghton, Mich. Seed-germinator. No. 978,812; Dec. 13; Sp. p. 2990; Gaz. vol. 161; p. 507.
Balcom, George P. (See Balcom, Ebenezer B. and G. P.)
Balcom, Henry D., Belfast, N. Y. Equalizer tug attachment for harness. No. 961,573; June 14; Sp. p. 2758; Gaz. vol. 155; p. 478.
Balcom, Nella C., *et al.* (See Balcom, William D., assignor.)
Balcom, William D., assignor of one-half to N. C. Balcom, Greeley, one-fourth to J. W. Morey and one-fourth to E. E. Sellers, Denver, Colo. Coffee-cleaning apparatus. No. 957,138; May 3; Sp. p. 1353; Gaz. vol. 154; p. 217.
Balcom, William D., assignor of one-half to N. C. Balcom, Greeley, one-fourth to J. W. Morey and one-fourth to E. E. Sellers, Denver, Colo. Coffee-cleaning apparatus. No. 977,697; Dec. 6; Sp. p. 631; Gaz. vol. 161; p. 96.
Balcome, Herbert A., Jamaica Plain, assignor to B. F. Sturtevant Company, Boston, Mass. Brush-holder for dynamo-electric machines. No. 972,799; Oct. 18; Sp. p. 2795; Gaz. vol. 159; p. 499.
Baldacci, Christopher. (See Gardner, Edwin A., assignor.)
Baldauf, Charles L., West Hoboken, N. J., assignor to Thomas Nelson & Sons, New York, N. Y. Clasp for books. No. 964,368; July 12; Sp. p. 2890; Gaz. vol. 156; p. 477.
Balden, John S. (See Ulbrich, Gustav H., assignor.)
Baldt Anchor Company. (See Powell, Norris D., assignor.)
Baldwin, Arthur J., East Orange, N. J. Machine for making wire-glass. No. 957,594; May 10; Sp. p. 2320; Gaz. vol. 154; p. 403.
Baldwin, Arthur J., East Orange, N. J. Method of and machine for making wire-glass. No. 959,102; May 24; Sp. p. 5835; Gaz. vol. 154; p. 978.
Baldwin, Emerson F., Philadelphia, Pa. Windmill construction. No. 951,899; Mar. 15; Sp. p. 2938; Gaz. vol. 152; p. 531.
Baldwin, Floyd Z. (See Southworth, Preston B., assignor.)
Baldwin, Frank, Toledo, Ohio. Hammer or the like. No. 960,147; May 31; Sp. p. 8062; Gaz. vol. 154; p. 1355.
Baldwin, George, Indianapolis, Ind. Automatic water-elevating device. No. 960,775; June 7; Sp. p. 1088; Gaz. vol. 155; p. 182.
Baldwin, John L., Washington, D. C. Seeding attachment for planters. No. 949,254; Feb. 15; Sp. p. 3081; Gaz. vol. 151; p. 546.

Baldwin, John P., Berea, Ohio. Agricultural implement. No. 975,109; Nov. 8; Sp. p. 2334; Gaz. vol. 160; p. 381.
Baldwin Locomotive Works. (See Abbe, George C., assignor.)
Baldwin Locomotive Works. (See Austin, William L., assignor.)
Baldwin Locomotive Works. (See Dwinell, Charles A., assignor.)
Baldwin Locomotive Works. (See Ehle, Archibald H., assignor.)
Baldwin Locomotive Works. (See Henry, George W., Jr., assignor.)
Baldwin Locomotive Works. (See Herman, Charles G., assignor.)
Baldwin Locomotive Works. (See Hodges, William S., assignor.)
Baldwin Locomotive Works. (See Scheib and Austin, assignors.)
Baldwin Locomotive Works. (See Vauclain, Samuel M., assignor.)
Baldwin, Luther C., Providence, R. I. Bobbin-boring machine. No. 970,601; Sept. 20; Sp. p. 3102; Gaz. vol. 158; p. 541.
Baldwin, Luther C., Providence, R. I., and E. C. Buffington, Manchester, N. H., assignors to U. S. Bobbin & Shuttle Co., Providence, R. I. Bobbin-boring machine. No. 974,545; Nov. 1; Sp. p. 1088; Gaz. vol. 160; p. 164.
Baldwin, Mary E., Chicago, Ill. Sunbonnet. No. 958,715; May 24; Sp. p. 4983; Gaz. vol. 154; p. 843.
Baldwin, Nathaniel, Midway, Utah. Sound-amplifier. No. 946,096; Jan. 11; Sp. p. 2396; Gaz. vol. 150; p. 399.
Baldwin, Nathaniel, Heber, Utah. Telephone-receiver. No. 957,403; May 10; Sp. p. 1958; Gaz. vol. 154; p. 338.
Baldwin, Otis N., Baxter Springs, Kans. Fence-wiring machine. No. 950,219; Feb. 22; Sp. p. 5184; Gaz. vol. 151; p. 910.
Baldwin, William D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator-controller. No. 974,849; Nov. 8; Sp. p. 1740; Gaz. vol. 160; p. 291.
Baldwin, William D., New York, and A. Sundh, Yonkers, N. Y. Indicator for cars. No. 973,334; Oct. 18; Sp. p. 4016; Gaz. vol. 159; p. 687.
Baldwin, William E., Jr., Broad Ford, Pa. Brake. No. 948,155; Feb. 1; Sp. p. 774; Gaz. vol. 151; p. 127.
Baldwin, William G., Pittsburg, Pa. Loose-leaf binder. No. 967,705; Aug. 16; Sp. p. 3962; Gaz. vol. 157; p. 680.
Baldwin, William J., New York, N. Y. Separating various metals from gases. No. 950,607; Mar. 1; Sp. p. 302; Gaz. vol. 152; p. 49.
Balentine, Steven F., Charleston, S. C. Settee. No. 971,342; Sept. 27; Sp. p. 4669; Gaz. vol. 158; p. 816.
Balke, Wilhelm A., Eisenach, Germany. Napkin-holder. No. 964,739; July 19; Sp. p. 3823; Gaz. vol. 156; p. 636.
Ball, Andrew J., Fort Worth, Tex. Automatic weighing-machine. No. 947,986; Feb. 1; Sp. p. 432; Gaz. vol. 151; p. 69.
Ball, Augustus A., Jr., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Starting device for burners. No. 974,111; Nov. 1; Sp. p. 9; Gaz. vol. 160; p. 4.
Ball Bearing Coupler Company. (See Buchanan, William A., assignor.)
Ball, Benjamin A., *et al.* (See Peck, Ira F., assignor.)
Ball, Bert C., Portland, Oreg. Locomotive. No. 974,459; Nov. 1; Sp. p. 886; Gaz. vol. 160; p. 130.
Ball, Bert C., Portland, Oreg. Steam-engine. No. 974,546; Nov. 1; Sp. p. 1094; Gaz. vol. 160; p. 164.
Ball Brothers Glass Manufacturing Company. (See Bingham, Alvah L., assignor.)
Ball Engine Company. (See Armstrong, Edwin J., assignor.)
Ball, Frank B., assignor to Manhattan Rubber Manufacturing Company, Passaic, N. J. Bucket attachment for conveyers. No. 972,317; Oct. 11; Sp. p. 1745; Gaz. vol. 159; p. 306.
Ball, Frederick O., Plainfield, N. J. Indicator reducing-motion mechanism. No. 959,443; May 31; Sp. p. 6511; Gaz. vol. 154; p. 1115.
Ball, George D. (See McIntyre, David, assignor.)
Ball, George E., Cranston, R. I. Rotary engine. No. 946,492; Jan. 11; Sp. p. 3342; Gaz. vol. 150; p. 537.
Ball, George E., Cranston, R. I. Rotary engine. No. 979,638; Dec. 27; Sp. p. 4800; Gaz. vol. 161; p. 842.
Ball, Henry P., New York, N. Y., assignor to General Electric Company. Oil-switch. No. 945,671; Jan. 4; Sp. p. 1420; Gaz. vol. 150; p. 222.
Ball, Henry P., New York, N. Y., assignor to General Electric Company. Snap-switch. No. 947,881; Feb. 1; Sp. p. 225; Gaz. vol. 151; p. 36.
Ball, Henry P., New York, N. Y., assignor of one-half to S. Insull, Chicago, Ill. Music-roll for mechanical musical instruments. No. 948,806; Feb. 8; Sp. p. 2182; Gaz. vol. 151; p. 371.
Ball, Henry P., Schenectady, N. Y., assignor of one-half to S. Insull, Chicago, Ill. Perforating music-strips. No. 964,951; July 19; Sp. p. 4242; Gaz. vol. 156; p. 709.
Ball, Herman F. (See Ennis and Ball.)
Ball, John B., Louisville, Ky. Portable elevator. No. 955,936; Apr. 26; Sp. p. 4867; Gaz. vol. 153; p. 861.
Ball, Minnie A., administratrix. (See Ball, Samuel E.)
Ball Multi-Spark Plug Co., The. (See Cherry, Louis B., assignor.)
Ball, Richard H., Lawrence, Mass. Steam pressing-board. No. 951,673; Mar. 8; Sp. p. 2460; Gaz. vol. 152; p. 426.
Ball, Samuel E., deceased, Dayton, Ohio; M. A. Ball, administratrix. Fondant-mixing machine. No. 948,949; Feb. 8; Sp. p. 2453; Gaz. vol. 151; p. 417.
Ball, Samuel M., B. N. McNiel, and H. Pennington, Houston, Tex. Machine for compressing and rolling bats. No. 961,997; June 21; Sp. p. 3653; Gaz. vol. 155; p. 642.
Ball, Sarah E., Ritchey, Ill. Weeder. No. 960,247; June 7; Sp. p. 9; Gaz. vol. 155; p. 4.
Ball, Walter, Boston, Mass. Rotary engine. No. 969,026; Aug. 30; Sp. p. 6778; Gaz. vol. 157; p. 1181.
Ball, Webster C., Cleveland, Ohio. Dial-foot for watches. No. 974,460; Nov. 1; Sp. p. 888; Gaz. vol. 160; p. 131.
Ball, William J., Alanreed, Tex. File-cabinet. No. 954,247; Apr. 5; Sp. p. 1174; Gaz. vol. 153; p. 196.
Ball, William R., Bryan, Tex. Baling-press. No. 961,998; June 21; Sp. p. 3657; Gaz. vol. 155; p. 643.
Ball, William R., Bryan, Tex. Doubletree attachment. No. 967,155; Aug. 16; Sp. p. 2855; Gaz. vol. 157; p. 494.
Ball, William R., Bryan, Tex. Tool of the pliers type. No. 971,582; Oct. 4; Sp. p. 154; Gaz. vol. 159; p. 28.
Ballam, De Lacy E., assignor of one-half to J. Rogers, New York, N. Y. Combined table and chair. No. 956,024; Apr. 26; Sp. p. 5048; Gaz. vol. 153; p. 893.
Ballamy, John F. (See Springer and Ballamy.)
Ballard, Charles R. (See Vezie, Eugene, assignor.)
Ballard, Charles R., Midway, Pa. Valve. No. 949,208; Feb. 15; Sp. p. 2990; Gaz. vol. 151; p. 530.
Ballard, Cullum P., assignor of one-third to J. P. Copeland and one-third to W. M. Comer, Hunters Springs, W. Va. Sheep-collar. No. 948,407; Feb. 8; Sp. p. 1326; Gaz. vol. 151; p. 237.
Ballard, Frederick W., Cleveland Heights, Ohio. Hydro-electric power plant. No. 958,578; May 17; Sp. p. 4714; Gaz. vol. 154; p. 774.
Ballard, George L., assignor to Wildman Manufacturing Company, Norristown, Pa. Stop-motion for knitting-machines. No. 951,358; Mar. 8; Sp. p. 1821; Gaz. vol. 152; p. 319.
Ballard, George L., assignor to Wildman Manufacturing Company, Norristown, Pa. Circular-knitting machine. No. 963,679; July 5; Sp. p. 1425; Gaz. vol. 156; p. 223.
Ballard, Harrie A., Somerville, assignor to The Boylston Manufacturing Company, Boston, Mass. Mechanism for inserting fasteners. No. 969,934; Sept. 13; Sp. p. 1702; Gaz. vol. 158; p. 293.
Ballard, Harry E., Holyoke, assignor to The Coburn Trolley Track Manufacturing Company, Willimansett, Mass. Door-hanger. No. 956,025; Apr. 26; Sp. p. 5049; Gaz. vol. 153; p. 893.
Ballard, John C., and J. F. Bynum, Cherryville, N. C. Latch for cotton ring spinning and twisting frames. No. 969,443; Sept. 6; Sp. p. 617; Gaz. vol. 158; p. 98.
Ballard, William, Perry, Iowa. Bag-holder. No. 965,360; July 26; Sp. p. 5104; Gaz. vol. 156; p. 876.
Ballenger, Millard P., Tigerville, S. C. Whip socket and lock. No. 964,894; July 19; Sp. p. 4141; Gaz. vol. 156; p. 689.
Ballentine, Harlan J., Sycamore, Ill. Lamp-burner. No. 951,791; Mar. 15; Sp. p. 2713; Gaz. vol. 152; p. 495.
Ballentine, John R., Toledo, Ohio. Atomizer. No. 955,937; Apr. 26; Sp. p. 4868; Gaz. vol. 153; p. 861.
Ballentine, John R., Toledo, Ohio. Atomizer. No. 955,938; Apr. 26; Sp. p. 4870; Gaz. vol. 153; p. 862.
Balliet, Herbert S., New York, assignor to General Railway Signal Company, Gates, N. Y. Electrically-operated lock. No. 960,776; June 7; Sp. p. 1090; Gaz. vol. 155; p. 182.
Ballou, Charles H., North Attleboro, Mass. Die for helically fluting wire-stock. No. 946,631; Jan. 18; Sp. p. 3626; Gaz. vol. 150; p. 609.
Ballou, Eugene H., Pawtucket, R. I. Drop-shuttle-box mechanism of looms. No. 958,688; May 17; Sp. p. 4926; Gaz. vol. 154; p. 809.
Ballou, George F., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 955,892; Apr. 26; Sp. p. 4787; Gaz. vol. 153; p. 847.
Ballou, George F., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 968,442; Aug. 23; Sp. p. 5535; Gaz. vol. 157; p. 955.
Ballou, George F., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 971,959; Oct. 4; Sp. p. 1001; Gaz. vol. 159; p. 167.
Ballou, George F., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 971,960; Oct. 4; Sp. p. 1007; Gaz. vol. 159; p. 167.
Ballou, Harry G., Seattle, Wash. Truss. No. 968,728; Aug. 30; Sp. p. 6189; Gaz. vol. 157; p. 1081.
Ballou, Harry G., Seattle, Wash. Cutter and stamping die. No. 976,139; Nov. 22; Sp. p. 4506; Gaz. vol. 160; p. 781.
Ballou, Latimer H., Lawrence, Mass. Winding-machine. No. 952,497; Mar. 22; Sp. p. 4119; Gaz. vol. 152; p. 758.
Ballou, Latimer H., Lawrence, Mass. Winding-machine reel. No. 975,821; Nov. 15; Sp. p. 3849; Gaz. vol. 160; p. 649.
Balou, Harry F. (See Hollar, Rees, and Balou.)

Alphabetical list of patentees—Continued.

Bals, Anthony F., Chicago, Ill. Safety-razor. No. 949,255; Feb. 15; Sp. p. 3084; Gaz. vol. 151; p. 546.
Baltezor, Andrew K., Wentzville, Mo. Motor-propelled plow. No. 974,338; Nov. 1; Sp. p. 598; Gaz. vol. 160; p. 89.
Baltezor, Andrew K., Wentzville, Mo. Driving and steering means. No. 974,625; Nov. 1; Sp. p. 1249; Gaz. vol. 160; p. 192.
Balthrop, Edward S., Jackson, Tenn. Inhaler. No. 972,318; Oct. 11; Sp. p. 1746; Gaz. vol. 159; p. 307.
Baltzer, Henry P., Hamburg, N. Y. Potato-planter. No. 951,412; Mar. 8; Sp. p. 1943; Gaz. vol. 152; p. 337.
Baltzley, Edwin, Glen Echo, Md., assignor to L. E. Baltzley, Washington, D. C. Sound-absorbing device for type-writers. No. 956,618; May 3; Sp. p. 238; Gaz. vol. 154; p. 40.
Baltzley, Edwin, Glen Echo, Md., assignor, by mesne assignments, to Southern Furniture Company, Washington, D. C. Type-writer cabinet. No. 961,525; June 14; Sp. p. 2652; Gaz. vol. 155; p. 462.
Baltzley, John H., Jr., Baltimore, Md., assignor to The King Cork & Seal Company. Bottle-capping machine. No. 977,581; Dec. 6; Sp. p. 377; Gaz. vol. 161; p. 55.
Baltzley, Louis E. (See Baltzley, Edwin, assignor.)
Baltzley, Louis E., Washington, D. C. Type-writer attachment. No. 956,266; Apr. 26; Sp. p. 5601; Gaz. vol. 153; p. 977.
Bambauer, Edward, Volta, Cal. Punching-machine. No. 971,514; Oct. 4; Sp. p. 4; Gaz. vol. 159; p. 3.
Bamberger, Alfred P. (See Porter, George, assignor.)
Bamford, Henry. (See Sonnenthal and Bamford.)
Bancroft, Arthur, Los Angeles, Cal. Combination shoe-blacking stand and bootjack. No. 960,148; May 31; Sp. p. 8064; Gaz. vol. 154; p. 1355.
Bancroft, George J., Denver, Colo. Pneumatic cushion for vehicles. No. 980,138; Dec. 27; Sp. p. 5910; Gaz. vol. 161; p. 1009.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix-dimensioning machine. No. 952,596; Mar. 22; Sp. p. 4335; Gaz. vol. 152; p. 793.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Justifying mechanism for pattern-controlled composing-machines. No. 952,597; Mar. 22; Sp. p. 4340; Gaz. vol. 152; p. 794.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Driving or transmission mechanism for type and other machines. No. 962,408; June 28; Sp. p. 4544; Gaz. vol. 155; p. 807.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Driving-press for type-matrices. No. 962,409; June 28; Sp. p. 4551; Gaz. vol. 155; p. 808.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Low-quad type-mold. No. 962,410; June 28; Sp. p. 4563; Gaz. vol. 155; p. 808.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Low-quad mold for type-machines. No. 962,411; June 28; Sp. p. 4566; Gaz. vol. 155; p. 809.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Control mechanism for low-quad molds. No. 962,412; June 28; Sp. p. 4572; Gaz. vol. 155; p. 809.
Bancroft, John S., and A. L. Knight, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Forming, attaching, and positioning nick-pins in type-molds. No. 952,598; Mar. 22; Sp. p. 4352; Gaz. vol. 152; p. 795.
Bancroft, John S., and A. L. Knight, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type-mold. No. 952,666; Mar. 22; Sp. p. 4498; Gaz. vol. 152; p. 818.
Bandement, Ludovic, and W. Héring, Paris, France. Sugar crusher and pulverizer. No. 979,364; Dec. 20; Sp. p. 4204; Gaz. vol. 161; p. 724.
Bandfield, William E., Wolverhampton, England. Attachment of telegraph and similar line wires to insulators. No. 966,882; Aug. 9; Sp. p. 2280; Gaz. vol. 157; p. 374.
Banding Machine Company, The. (See Fearon, James J. and T. E., assignors.)
Bandotype Company. (See Brooks, Byron A., assignor.)
Bane, Hamilton S., New Ulm, Tex. Stationery filing-case. No. 953,189; Mar. 29; Sp. p. 5624; Gaz. vol. 152; p. 1022.
Baney, Frank E., Smelser, assignor of one-half to J. E. Kennedy, Plattsville, Wis., Electromagnetic drill. No. 968,729; Aug. 30; Sp. p. 6191; Gaz. vol. 157; p. 1082.
Banger, John E. A. (See Wiley and Banger.)
Bangerter, Fred, New York, assignor to The Standard Water Meter Company, Brooklyn, N. Y. Water-wheel. No. 948,755; Feb. 8; Sp. p. 2077; Gaz. vol. 151; p. 353.
Bangle, James A., and S. R. Hunter, assignors of one-third to The Proximity Manufacturing Company, Greensboro, N. C. Warp-beam for looms. No. 952,226; Mar. 15; Sp. p. 3561; Gaz. vol. 152; p. 640.
Bangle, James A., and S. R. Hunter, assignors of one-third to The Proximity Manufacturing Company, Greensboro, N. C. Warp-beam for looms. No. 952,227; Mar. 15; Sp. p. 3562; Gaz. vol. 152; p. 640.
Bangs, Byron M., Lake Mills, Iowa. Sectional mold. No. 959,103; May 24; Sp. p. 5838; Gaz. vol. 154; p. 978.
Bankart, Beatrice S., Exeter, England. Garment. No. 965,552; July 26; Sp. p. 5538; Gaz. vol. 156; p. 943.
Banker, Arthur L., Pittsburg, Pa., Wind-shield. No. 968,637; Aug. 30; Sp. p. 5959; Gaz. vol. 157; p. 1049.
Bankers Construction Company, The. (See Wheeler, Raymond O., assignor.)
Bankers' Dust Proof Time Lock Company, The. (See Benham, Edgar M., assignor.)
Bankhead, Alexandrew, Glen Ullin, N. D. Plow attachment. No. 978,427; Dec. 13; Sp. p. 2185; Gaz. vol. 161; p. 379.
Banks, Daniel B. (See Tanner and Banks.)
Banks, Homer S., Salina, Kans. Windmill. No. 945,210; Jan. 4; Sp. p. 422; Gaz. vol. 150; p. 70.
Banks, James W., assignor of two-thirds to Denison, Preussner and Company, Bradford, England. Apparatus for piling piece goods. No. 958,579; May 17; Sp. p. 4717; Gaz. vol. 154; p. 774.
Banks, John C., Chillicothe, Tex. Oil-burner. No. 961,386; June 14; Sp. p. 2355; Gaz. vol. 155; p. 416.
Banks, Virgil G., Mount Kisco, N. Y. Tie-plate and rail-brace. No. 970,414; Sept. 13; Sp. p. 2689; Gaz. vol. 158; p. 454.
Banks, William C., New York, N. Y. Primary battery. No. 949,256; Feb. 15; Sp. p. 3086; Gaz. vol. 151; p. 547.
Banks, William M., Coal Creek, Tenn. Mail-bag collecting and delivering apparatus. No. 953,578; Mar. 29; Sp. p. 6458; Gaz. vol. 152; p. 1155.
Banning, Samuel W., Hinsdale, assignor to Metallic Sheathing Company, Chicago, Ill. Metallic sheathing. No. 950,832; Mar. 1; Sp. p. 798; Gaz. vol. 152; p. 127.
Banning, Thomas A., Jr., assignor to F. Thompson, Chicago, Ill. Multiple-punch press. No. 977,362; Nov. 29; Sp. p. 7237; Gaz. vol. 160; p. 1229.
Bannister, Alfred F. (See Wolf and Bannister.)
Banta, Albert M., New York, N. Y. Tie-clasp. No. 949,516; Feb. 15; Sp. p. 3639; Gaz. vol. 151; p. 634.
Banta, George W., Jersey City, and A. E. Wicks, Hudson Heights, N. J. Bottle or other like receptacle for containing liquids. No. 963,414; July 5; Sp. p. 909; Gaz. vol. 156; p. 134.
Barba, Charles E., Altoona, Pa. Truck. No. 978,428; Dec. 13; Sp. p. 2186; Gaz. vol. 161; p. 379.
Barbas, Léonard, Paris, France. Apparatus for forcing liquid out of reservoirs. No. 959,694; May 31; Sp. p. 7059; Gaz. vol. 154; p. 1199.
Barber-Colman Company. (See Colman, Howard D., assignor.)
Barber-Colman Company. (See Shull, Walter G., assignor.)
Barber, Edward A., York, Pa. Railway-car ventilator. No. 947,171; Jan. 18; Sp. p. 4767; Gaz. vol. 150; p. 786.
Barber, Edwin J., Grinnell, Kans. Pump attachment. No. 950,506; Mar. 1; Sp. p. 98; Gaz. vol. 152; p. 16.
Barber, Henry F., Edison, Nebr. Excavating mechanism for beet-harvesters. No. 962,880; June 28; Sp. p. 5566; Gaz. vol. 155; p. 974.
Barber, Henry F., Edison, Nebr. Beet-harvesting mechanism. No. 968,522; Aug. 30; Sp. p. 5722; Gaz. vol. 157; p. 1008.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Clutch. No. 945,363; Jan. 4; Sp. p. 782; Gaz. vol. 150; p. 120.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Variable-size-flat-sheet-delivery mechanism. No. 970,366; Sept. 13; Sp. p. 2597; Gaz. vol. 158; p. 439.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Variable-size-sheet folding, cutting, and delivering mechanism. No. 978,537; Dec. 13; Sp. p. 2415; Gaz. vol. 161; p. 416.
Barber, James T., Brooklyn, N. Y. Starting device for engines. No. 952,405; Mar. 15; Sp. p. 3906; Gaz. vol. 152; p. 699.
Barber, John C., Chicago, Ill. Car-truck. No. 945,672; Jan. 4; Sp. p. 1424; Gaz. vol. 150; p. 222.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 953,681; Apr. 5; Sp. p. 5; Gaz. vol. 153; p. 3.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 962,937; June 28; Sp. p. 5662; Gaz. vol. 155; p. 991.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 963,978; July 12; Sp. p. 2114; Gaz. vol. 156; p. 346.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Center-bearing for cars. No. 969,444; Sept. 6; Sp. p. 618; Gaz. vol. 158; p. 98.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 977,429; Dec. 6; Sp. p. 7; Gaz. vol. 161; p. 4.
Barber, Percy D., Amherst, and F. B. McQueen, Brownhelm, Ohio. Sharpening device for lawn-mowers. No. 977,363; Nov. 29; Sp. p. 7245; Gaz. vol. 160; p. 1229.

Alphabetical list of patentees—Continued.

Barber, Raymond J., Belmont, assignor to Globe Ear-Phone Company, Boston, Mass. Adjusting means for the regulation of the intensity of sound for ear-phone receivers. No. 968,231; Aug. 23; Sp. p. 5111; Gaz. vol. 157; p. 881.

Barberton Novelty Company, The. (See Buckingham, Roswell H., assignor.)

Barbezat, Charles, assignor to "Dye Works, formerly L. Durand, Huguenin & Co.," Basel, Switzerland. Derivatives of gallocyanins and making. No. 955,040; Apr. 12; Sp. p. 2926; Gaz. vol. 153; p. 496.

Barbieri, Cesare, assignor to Barbieri & Dellenbarger Company, Chicago, Ill. Sheet-making machine. No. 968,109; Aug. 23; Sp. p. 4834; Gaz. vol. 157; p. 840.

Barbieri, Cesare, assignor to Barbieri & Dellenbarger Company, Chicago, Ill. Making sheets. No. 968,110; Aug. 23; Sp. p. 4838; Gaz. vol. 157; p. 840.

Barbieri & Dellenbarger Company. (See Barbieri, Cesare, assignor.)

Barbour, George H. (See Stoddard and Barbour.)

Barbour, George O., Rockland, assignor to Frank W. Whitcher Co., Boston, Mass. Lasting-pincers. No. 794,626; Nov. 1; Sp. p. 1251; Gaz. vol. 160; p. 192.

Barbour, George O., Rockland, assignor to Frank W. Whitcher Co., Boston, Mass. Lasting-pincers. No. 974,627; Nov. 1; Sp. p. 1254; Gaz. vol. 160; p. 193.

Barbour & Sons, William. (See Greene, William J., assignor.)

Barbour-Stockwell Company. (See Ellis, Frank H., assignor.)

Barbour-Stockwell Company. (See Glynn, Charles N., assignor.)

Barbour, Thomas S., Ames, Iowa. Hay-fork attachment. No. 970,415; Sept. 13; Sp. p. 2691; Gaz. vol. 158; p. 455.

Barbre, Thomas J., Denver, Colo. Lubricating-valve. No. 970,292; Sept. 13; Sp. p. 2461; Gaz. vol. 158; p. 414.

Barcalo Manufacturing Company. (See Rogers and Vallone, assignors.)

Barcalo Manufacturing Company. (See Vallone, Charles, assignor.)

Barcalo Manufacturing Company. (See Vallone and Rogers, assignors.)

Barclay, John C., Montclair, N. J. Telegraph-transmitter. No. 976,537; Nov. 22; Sp. p. 5437; Gaz. vol. 160; p. 919.

Barclay, Richard, Youngstown, Ohio. Horseshoe. No. 979,365; Dec. 20; Sp. p. 4205; Gaz. vol. 161; p. 725.

Barclay, William P., Chicago, Ill. Power-head pumping machinery. No. 945,259; Jan. 4; Sp. p. 527; Gaz. vol. 150; p. 87.

Barclay, William P., assignor to T. W. Dudman, Chicago, Ill. Churn. No. 947,631; Jan. 25; Sp. p. 5858; Gaz. vol. 150; p. 973.

Barcley, Harry W., Newark, N. J. Wire garment-stay. No. 949,052; Feb. 15; Sp. p. 2688; Gaz. vol. 151; p. 479.

Barcus, Harvey C., Dayton, Ohio. Switch. No. 971,817; Oct. 4; Sp. p. 636; Gaz. vol. 159; p. 112.

Barcy-Nicholson Company. (See Barcy, William, assignor.)

Barcy, William, assignor to Barcy-Nicholson Company, Detroit, Mich. Electric terminal clip. No. 955,747; Apr. 19; Sp. p. 4445; Gaz. vol. 153; p. 767.

Bard, George M., assignor to Norwall Manufacturing Company, Chicago, Ill. Valve. No. 958,716; May 24; Sp. p. 4984; Gaz. vol. 154; p. 844.

Bard, George R., assignor, by mesne assignments, to The Waterworks Specialty Company, Chicago, Ill. Pipe connection. No. 963,498; July 5; Sp. p. 1071; Gaz. vol. 156; p. 163.

Bard, Grace L., Bay Ridge, N. Y. Shield for corset steels and bones. No. 972,984; Oct. 18; Sp. p. 3257; Gaz. vol. 159; p. 567.

Bard, James F., Erie, Pa., assignor, by mesne assignments, to Burke Electric Company. Power mechanism. No. 976,115; Nov. 15; Sp. p. 4431; Gaz. vol. 160; p. 751.

Bardet, Jean, Paris, France. Parceling-machine. No. 957,833; May 10; Sp. p. 2812; Gaz. vol. 154; p. 483.

Bardill, John O., Herculaneum, Mo. Twyer-receiver for smelting-furnaces. No. 962,112; June 21; Sp. p. 3922; Gaz. vol. 155; p. 684.

Baré, Paul, Pittsburg, Pa. Cuspidor. No. 969,742; Sept. 6; Sp. p. 1268; Gaz. vol. 158; p. 203.

Barell, Emil, and W. Girard, Basel, Switzerland, assignors to The Hoffmann-la Roche Chemical Works, New York, N. Y. Box for vials, flasks, and similar objects. No. 955,041; Apr. 12; Sp. p. 2928; Gaz. vol. 153; p. 496.

Barell, Emil, and F. Elger, Basel, Switzerland, assignors to The Hoffmann-La-Roche Chemical Works, New York, N. Y. Hexamethylene-tetramin-monoguaiacol. No. 979,916; Dec. 27; Sp. p. 5411; Gaz. vol. 161; p. 936.

Barell, Emil, and F. Elger, Basel, Switzerland, assignors to The Hoffmann-La-Roche Chemical Works, New York, N. Y. Hexamethylene-tetramin-diguaiacol. No. 979,917; Dec. 27; Sp. p. 5412; Gaz. vol. 161; p. 936.

Baren, Eugene, *et al.* (See Eytalis, Charles, assignor.)

Barens, Jacob, Altus, Ark. Baling-press. No. 957,026; May 3; Sp. p. 1143; Gaz. vol. 154; p. 180.

Barens, Jacob, Altus, Ark. Baling-press. No. 979,055; Dec. 20; Sp. p. 3534; Gaz. vol. 161; p. 618.

Barenz, William F. (See Heger, George, assignor.)

Barger, Mary A., Hopedale, Ill. Smoking-pipe. No. 959,043; May 24; Sp. p. 5702; Gaz. vol. 154; p. 958.

Bargman, Harry, Los Angeles, Cal. Fuse-lighter. No. 945,075; Jan. 4; Sp. p. 145; Gaz. vol. 150; p. 24.

Bargman, Harry, Los Angeles, Cal. Fuse-igniter. No. 945,076; Jan. 4; Sp. p. 147; Gaz. vol. 150; p. 25.

Bargman, Harry, Los Angeles, Cal. Fuse-lighter. No. 945,673; Jan. 4; Sp. p. 1427; Gaz. vol. 150; p. 222.

Baril, Henri. (See Poulin and Baril.)

Barilla, John. (See Stehlik and Barilla.)

Baritell, August J., Morgantown, W. Va. Rail-joint. No. 966,419; Aug. 9; Sp. p. 1194; Gaz. vol. 157; p. 217.

Bark, Otto G. (See Pansch and Bark.)

Bark, William, Elyria, Ohio, assignor to National Tube Company, Pittsburg, Pa. Pipe-straightening rolls. No. 978,813; Dec. 13; Sp. p. 2992; Gaz. vol. 161; p. 507.

Barkelew, Frank S., Los Angeles, Cal. Crown-block. No. 956,926; May 3; Sp. p. 926; Gaz. vol. 154; p. 147.

Barkelew, Frank S., Los Angeles, Cal. Casing-elevator. No. 960,239; May 31; Sp. p. 8242; Gaz. vol. 154; p. 1387.

Barker, Arthur, London, assignor to G. T. Hine, Westminster, England. Carbureter for internal-combustion engines or motors. No. 979,409; Dec. 27; Sp. p. 4300; Gaz. vol. 161; p. 762.

Barker Asphalt Paving Company, The. (See Henderson, Richard, assignor.)

Barker, Charles, Bondville, Ill. Draft appliance. No. 963,499; July 5; Sp. p. 1072; Gaz. vol. 156; p. 163.

Barker, Charles R., assignor to The Cleveland Wire Spring Company, Cleveland, Ohio. Attachment for springs. No. 949,738; Feb. 15; Sp. p. 4073; Gaz. vol. 151; p. 707.

Barker, Edward, Chicago, Ill. Cooking-stove. No. 957,642; May 10; Sp. p. 2426; Gaz. vol. 154; p. 420.

Barker, England J., Chicago, Ill. Means for combining autographic registers and type-writers. No. 970,780; Sept. 20; Sp. p. 3525; Gaz. vol. 158; p. 603.

Barker, England J., Morgan Park, Ill. Autographic-register stand for type-writing machines. No. 971,877; Oct. 4; Sp. p. 777; Gaz. vol. 159; p. 135.

Barker, George A., assignor to The Barker Manufacturing Company, Cambria, Va. Sandpapering-machine. No. 977,923; Dec. 6; Sp. p. 1091; Gaz. vol. 161; p. 173.

Barker, George G., Upland, assignor of one-half to W. C. Alexander, Media, Pa. Rotary mining-drill. No. 966,377; Aug. 2; Sp. p. 1101; Gaz. vol. 157; p. 178.

Barker, George G., Upland, assignor of one-half to W. C. Alexander, Media, Pa. Portable mining-machine. No. 966,378; Aug. 2; Sp. p. 1102; Gaz. vol. 157; p. 178.

Barker, George H., Yonkers, N. Y. Seal-lock. No. 954,910; Apr. 12; Sp. p. 2675; Gaz. vol. 153; p. 452.

Barker, George L., *et al.* (See Larouette, Henry P., assignor.)

Barker, George M., assignor of one-eighth to J. Ranz, St. Louis, Mo. Check-writing machine. No. 957,595; May 10; Sp. p. 2321; Gaz. vol. 154; p. 403.

Barker, Irving, Springfield, Ill. Gate. No. 979,410; Dec. 27; Sp. p. 4303; Gaz. vol. 161; p. 763.

Barker, James, Philadelphia, Pa. Molding-flask. No. 973,907; Oct. 25; Sp. p. 5238; Gaz. vol. 159; p. 908.

Barker, Jesse O., Chicago, Ill. Ventilator for windows. No. 946,097; Jan. 11; Sp. p. 2401; Gaz. vol. 150; p. 399.

Barker, John, San Francisco, Cal. Carpenter's square. No. 952,177; Mar. 15; Sp. p. 3457; Gaz. vol. 152; p. 622.

Barker, John, assignor to Barker's Folding Steel Square Company, San Francisco, Cal. Carpenter's steel square. No. 952,176; Mar. 15; Sp. p. 3456; Gaz. vol. 152; p. 662.

Barker, John C., Leeds, England. Furnace for melting metals and for like purposes. No. 948,126; Feb. 1; Sp. p. 714; Gaz. vol. 151; p. 117.

Barker, John F., Springfield, Mass. Pump-base. No. 978,538; Dec. 13; Sp. p. 2418; Gaz. vol. 161; p. 416.

Barker, John F., Jr., Boston, assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Constant-supply device for vaporizing fuel-gas machines. No. 962,611; June 28; Sp. p. 5024; Gaz. vol. 155; p. 879.

Barker, John F., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Elevator-wheel. No. 977,062; Nov. 29; Sp. p. 6587; Gaz. vol. 160; p. 1124.

Barker, John H., Sheffield, England. Revolving cutter. No. 959,104; May 24; Sp. p. 5841; Gaz. vol. 154; p. 978.

Barker, John J., Delta, Colo. Sluice-box. No. 974,339; Nov. 1; Sp. p. 599; Gaz. vol. 160; p. 89.

Barker, John J., Arlington, assignor to Boston Coupling Company, Boston, Mass. Coupling device. No. 961,283; June 14; Sp. p. 2127; Gaz. vol. 155; p. 381.

Barker, John T., Wallingford, Conn. Apparatus for holding and discharging collapsible tubes. No. 971,818; Oct. 4; Sp. p. 638; Gaz. vol. 159; p. 112.

Barker, John W. (See Sissom, Jasper A., assignor.)

Barker Manufacturing Company, The. (See Barker, George A., assignor.)

Barker, Ralph E., Lynn, Mass., assignor to General Electric Company. Oscillating fan. No. 963,849; July 12; Sp. p. 1843; Gaz. vol. 156; p. 304.

Barker, Thomas. (See Hoyle and Barker.)

Barker, William M., McGill, Nev., assignor to Allis-Chalmers Company, Milwaukee, Wis. Self-heating hot-blast roasting-furnace. No. 961,081; June 7; Sp. p. 1704; Gaz. vol. 155; p. 283.

Barker, William S., Dayton, Ohio. Refrigerator or cold-storage apparatus. No. 976,619; Nov. 22; Sp. p. 5602; Gaz. vol. 160; p. 947.

Alphabetical list of patentees—Continued.

Barker's Folding Steel Square Company. (See Barker, John, assignor.)
Barkley, Robert A., Hamilton, Tex. Coupling-frame for planters. No. 978,539; Dec. 13; Sp. p. 2419; Gaz. vol. 161; p. 416.
Barksdale, Hamilton M., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Lining boxes to contain explosives. No. 977,698; Dec. 6; Sp. p. 633; Gaz. vol. 161; p. 96.
Barler, Richard O., Chicago, Ill. Sounding toy. No. 977,924; Dec. 6; Sp. p. 1094; Gaz. vol. 161; p. 174.
Barlett, Jacob, Bryant, Ind. Animal-guard for pipes. No. 961,834; June 21; Sp. p. 3305; Gaz. vol. 155; p. 589.
Barlow, Arthur E., assignor to Wright Wire Company, Worcester, Mass. Wire-netting. No. 971,656; Oct. 4; Sp. p. 305; Gaz. vol. 159; p. 54.
Barlow, George H., *et al.* (See Dean, John R., assignor.)
Barlow, Henry B., Manchester, England. Heald-shaft for wire and metal healds. No. 954,013; Apr. 5; Sp. p. 654; Gaz. vol. 153; p. 117.
Barlow, James P., Winthrop, Mass. Eyeglasses. No. 965,499; July 26; Sp. p. 5393; Gaz. vol. 156; p. 923.
Barlow, Richard H., and P. Barton, Bury, near Manchester, England. Loose-leaf binder. No. 956,509; May 3; Sp. p. 7; Gaz. vol. 154; p. 4.
Barlow, William E. (See Nazel and Barlow.)
Barnard, George E. B., St. Lucia, West Indies. Machine for operating upon cacao-beans. No. 953,504; Mar. 29; Sp. p. 6300; Gaz. vol. 152; p. 1129.
Barnard, John F. (See Nielsen and Barnard.)
Barnard, John H. (See Webb and Barnard.)
Barnard, Lewis S. (See Grandchamp and Barnard.)
Barnard, Thomas. (See Warren and Barnard.)
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 949,723; Feb. 15; Sp. p. 4033; Gaz. vol. 151; p. 701.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 954,911; Apr. 12; Sp. p. 2679; Gaz. vol. 153; p. 453.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 959,444; May 31; Sp. p. 6512; Gaz. vol. 154; p. 1116.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 961,202; June 14; Sp. p. 1946; Gaz. vol. 155; p. 352.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 975,200; Nov. 8; Sp. p. 2553; Gaz. vol. 160; p. 412.
Barner, Ernest B., Elkhorn, Oreg. Non-refillable bottle. No. 973,099; Oct. 18; Sp. p. 3501; Gaz. vol. 159; p. 604.
Barnes, Carl L., Chicago, Ill. Embalming. No. 978,814; Dec. 13; Sp. p. 2993; Gaz. vol. 161; p. 507.
Barnes, Charles A., *et al.* (See Caywood, James E., assignor.)
Barnes, Charles A. (See Jones and Barnes.)
Barnes, Charles A., Sr., Greenfield, Ind. Telephone-receiver handle. No. 971,961; Oct. 4; Sp. p. 1013; Gaz. vol. 159; p. 168.
Barnes, Charles W., assignor of one-half to The A. B. Chase Company, Norwalk, Ohio. Universal tracker-box. No. 967,102; Aug. 9; Sp. p. 2731; Gaz. vol. 157; p. 449.
Barnes, Edwin, Sheffield, England. Straight-side spectacles and the like. No. 959,105; May 24; Sp. p. 5842; Gaz. vol. 154; p. 979.
Barnes, Fred D., Milwaukee, Wis. Parachute-gun. No. 965,361; July 26; Sp. p. 5107; Gaz. vol. 156; p. 876.
Barnes, George A., New Haven, Conn. Pipe-cutter. No. 963,729; July 5; Sp. p. 1559; Gaz. vol. 156; p. 240.
Barnes, George A., assignor to The Ready Tool Company, New Haven, Conn. Tool-holder. No. 945,674; Jan. 4; Sp. p. 1427; Gaz. vol. 150; p. 223.
Barnes, George A., assignor to The Ready Tool Company, New Haven, Conn. Tool-holder. No. 945,675; Jan. 4; Sp. p. 1428; Gaz. vol. 150; p. 223.
Barnes, James J., assignor of one-half to J. F. Colwell, Mineral Wells, Tex. Fireproof and waterproof paint. No. 965,619; July 26; Sp. p. 5686; Gaz. vol. 156; p. 967.
Barnes, John D., Norfolk, Va. Music-stand. No. 959,044; May 24; Sp. p. 5704; Gaz. vol. 154; p. 958.
Barnes, John G., Leavenworth, Kans. Sectional mold for forming concrete walls, piers, columns, &c. No. 946,315; Jan. 11; Sp. p. 2877; Gaz. vol. 150; p. 477.
Barnes, John R., New York, N. Y. Sprinkler. No. 974,628; Nov. 1; Sp. p. 1255; Gaz. vol. 160; p. 193.
Barnes, John S., assignor to W. F. & John Barnes Company, Rockford, Ill. Gearing. No. 948,583; Feb. 8; Sp. p. 1698; Gaz. vol. 151; p. 295.
Barnes, John S., assignor to W. F. & John Barnes Company, Rockford, Ill. Drilling-machine. No. 973,843; Oct. 25; Sp. p. 5097; Gaz. vol. 159; p. 885.
Barnes, John S., and J. R. Vincer, assignors to W. F. & John Barnes Company, Rockford, Ill. Drilling-machine. No. 948,582; Feb. 8; Sp. p. 1689; Gaz. vol. 151; p. 295.
Barnes, John S., and J. R. Vincer, assignors to W. F. & John Barnes Company, Rockford, Ill. Drilling-machine. No. 958,604; May 17; Sp. p. 4764; Gaz. vol. 154; p. 782.
Barnes, John S., and J. R. Vincer, assignors to W. F. & John Barnes Company, Rockford, Ill. Gearing for drilling-machines. No. 979,918; Dec. 27; Sp. p. 5413; Gaz. vol. 161; p. 936.
Barnes, Joseph C., Montrose, Colo. Aim-director. No. 957,299; May 10; Sp. p. 1741; Gaz. vol. 154; p. 304.
Barnes, Joseph P., assignor to W. F. & John Barnes Company, Rockford, Ill. Drilling-machine. No. 948,472; Feb. 8; Sp. p. 1453; Gaz. vol. 151; p. 258.
Barnes, Joshua B., Hot Springs, Ark. Railway-rail fastener. No. 963,031; July 5; Sp. p. 8; Gaz. vol. 156; p. 4.
Barnes Manufacturing Company, The. (See Hardman, Charles C., assignor.)
Barnes, Nathaniel C. (See Hillenbrand, Charles W., assignor.)
Barnes, Ned E., assignor of one-half to O. A. Smith and one-fourth to H. A. McDonald, Willis, Tex. Indicator or bulletin. No. 969,592; Sept. 6; Sp. p. 955; Gaz. vol. 158; p. 151.
Barnes, Thomas A., Pasadena, Cal., assignor to W. H. Schoonmaker, Montclair, N. J. Puzzle. No. 964,740; July 19; Sp. p. 3824; Gaz. vol. 156; p. 636.
Barnes, Thomas B., Newark, N. Y. Sprayer. No. 963,979; July 12; Sp. p. 2116; Gaz. vol. 156; p. 346.
Barnes, Thomas W. (See Carroll, Walter J., assignor.)
Barnes, Willard C., South Weymouth, Mass. Feed-water heater for boilers. No. 968,023; Aug. 23; Sp. p. 4642; Gaz. vol. 157; p. 810.
Barnes, Willard F., San Francisco, Cal. Basket-making machine. No. 952,406; Mar. 15; Sp. p. 3908; Gaz. vol. 152; p. 700.
Barnes, William F., assignor to W. F. & John Barnes Company, Rockford, Ill. Drilling-machine. No. 948,584; Feb. 8; Sp. p. 1701; Gaz. vol. 151; p. 296.
Barnes, William H., Chicago, Ill. Railway-ticket receipt. No. 952,780; Mar. 22; Sp. p. 4757; Gaz. vol. 152; p. 857.
Barnes, William M., Philadelphia, Pa., assignor, by mesne assignments, to American Laundry Machinery Company, Cincinnati, Ohio. Ironing-machine. No. 967,307; Aug. 16; Sp. p. 3151; Gaz. vol. 157; p. 545.
Barnet, Joseph G., Renfrew, Ontario, Canada. Refrigerator. No. 955,574; Apr. 19; Sp. p. 4033; Gaz. vol. 153; p. 707.
Barnett, Frederick, and F. P. Bayles, Trinidad, Colo. Machine for leveling coal or the like. No. 966,986; Aug. 9; Sp. p. 2486; Gaz. vol. 157; p. 409.
Barnett, George W., Louise, Tex. Side-delivery excavator. No. 973,402; Oct. 18; Sp. p. 4173; Gaz. vol. 159; p. 711.
Barnett, Henry C., Jefferson, Ga. Road grader and smoother. No. 962,299; June 21; Sp. p. 4327; Gaz. vol. 155; p. 747.
Barnett, Horatio, Malvern, Ark. Display-rack and silent salesman. No. 977,063; Nov. 29; Sp. p. 6589; Gaz. vol. 160; p. 1124.
Barnett, Isaac, New York, N. Y. Bill-fold. No. 972,494; Oct. 11; Sp. p. 2119; Gaz. vol. 159; p. 369.
Barnett, John S., Central Point, Oreg. Fruit-picker's receptacle. No. 978,429; Dec. 13; Sp. p. 2188; Gaz. vol. 161; p. 379.
Barnett, Nathan, Chicago, Ill. Antiskidding device. No. 955,306; Apr. 19; Sp. p. 3474; Gaz. vol. 153; p. 617.
Barnett, Otto R. (See Bodkin, John A., assignor.)
Barnett, Otto R. (See Walker, William A., assignor.)
Barnett, Samuel, Derby, assignor of one-half to J. Tonge, Bolton, Lancaster, England. Hand-pump. No. 978,265; Dec. 13; Sp. p. 1843; Gaz. vol. 161; p. 322.
Barnett, Thomas, San Francisco, Cal. Dredger. No. 978,540; Dec. 13; Sp. p. 2420; Gaz. vol. 161; p. 417.
Barnett, Walter, Hackettstown, N. J. Rail-joint. No. 960,062; May 31; Sp. p. 7907; Gaz. vol. 154; p. 1328.
Barnett, Wheeler, Knoxville, Tenn. Pipe-machine. No. 970,677; Sept. 20; Sp. p. 3292; Gaz. vol. 158; p. 567.
Barnett, William J., Germiston, Transvaal. Spraying device for rock-drills. No. 956,026; Apr. 26; Sp. p. 5050; Gaz. vol. 153; p. 893.
Barnette, George E., New Castle, Pa. Mixer and conveyer. No. 975,315; Nov. 8; Sp. p. 2791; Gaz. vol. 160; p. 451.
Barney & Berry. (See Alden, William B., assignor.)
Barney & Berry. (See Dodge and Alden, assignors.)
Barney & Berry. (See Klahn, Emil, assignor.)
Barney, Edwin E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 949,257; Feb. 15; Sp. p. 3087; Gaz. vol. 151; p. 547.
Barney, Edwin E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 954,912; Apr. 12; Sp. p. 2682; Gaz. vol. 153; p. 453.
Barney, Edwin E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 957,178; May 10; Sp. p. 1459; Gaz. vol. 154; p. 261.
Barney, Edwin E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 967,706; Aug. 16; Sp. p. 3964; Gaz. vol. 157; p. 680.
Barney, Edwin E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 973,844; Oct. 25; Sp. p. 5100; Gaz. vol. 159; p. 886.
Barney, Everett H., Springfield, Mass. Bird-house. No. 968,523; Aug. 30; Sp. p. 5724; Gaz. vol. 157; p. 1009.

Alphabetical list of patentees—Continued.

Barnfather, Robert, Croydon, England. Tire-inflating device. No. 972,050; Oct. 4; Sp. p. 1178; Gaz. vol. 159; p. 198.
Barnhardt, James A. (See Timm and Barnhardt.)
Barnhart, Charles, Laclede, Idaho. Feeder for threshing-machines. No. 955,042; Apr. 12; Sp. p. 2929; Gaz. vol. 153; p. 496.
Barnhart, Harry J. (See King and Barnhart.)
Barnhart, Harry J. (See King, Barnhart, and King.)
Barnhart, James H., Egeland, N. D. Hog-trough. No. 948,839; Feb. 8; Sp. p. 2249; Gaz. vol. 151; p. 381.
Barnheisel, Frederick R., Chicago, Ill. Rotary bearing for suspended shafts. No. 961,670; June 14; Sp. p. 2952; Gaz. vol. 155; p. 510.
Barnhill, Edward B. (See Waller and Barnhill.)
Barnhill, Edward B., Marion, Ind., assignor to E. W. Micklin, Detroit, Mich. Blower for boilers. No. 966,987; Aug. 9; Sp. p. 2492; Gaz. vol. 157; p. 409.
Barnhurst, Henry G. (See Barnhurst, Henry R., assignor.)
Barnhurst, Henry R., Allentown, assignor of one-half to H. G. Barnhurst, Catasauqua, Pa. Apparatus for burning powdered fuel. No. 961,671; June 14; Sp. p. 2954; Gaz. vol. 155; p. 510.
Barnhurst, Henry R., Allentown, assignor of one-half to H. G. Barnhurst, Catasauqua, Pa. Burning powdered fuel. No. 961,672; June 14; Sp. p. 2956; Gaz. vol. 155; p. 511.
Barnick, Frank L., New York, N. Y. Automatic or self-adjustable weather-strip. No. 946,482; Jan. 11; Sp. p. 3323; Gaz. vol. 150; p. 534.
Barnstead, William J., Galesburg, Ill. Corporation-cock. No. 958,073; May 17; Sp. p. 3560; Gaz. vol. 154; p. 600.
Barnum, Charles, Wabasso, Minn. Vine-separator. No. 956,027; Apr. 26; Sp. p. 5052; Gaz. vol. 153; p. 894.
Barnum, Charles L., Kiefer, Okla. Resilient support for carriage-tops. No. 951,520; Mar. 8; Sp. p. 2152; Gaz. vol. 152; p. 373.
Barnum, Cordie, assignor of one-half to F. H. Burr, Buffalo, N. Y. Elevator-controlling device. No. 974,850; Nov. 8; Sp. p. 1743; Gaz. vol. 160; p. 291.
Barnum, Frank D., assignor of one-half to O. C. Wold, Chicago, Ill. Stencil-frame. No. 952,781; Mar. 22; Sp. p. 4758; Gaz. vol. 152; p. 857.
Barnum, Russell S. (See Jones and Barnum.)
Barnum, Thomas E., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Overload reversing-switch. No. 949,874; Feb. 22; Sp. p. 4409; Gaz. vol. 151; p. 789.
Barnum, Thomas E., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Motor-controller. No. 959,907; May 31; Sp. p. 7524; Gaz. vol. 154; p. 1272.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controlling device. No. 959,908; May 31; Sp. p. 7530; Gaz. vol. 154; p. 1272.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Crane-controller. No. 959,909; May 31; Sp. p. 7533; Gaz. vol. 154; p. 1273.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple-switch starter. No. 959,910; May 31; Sp. p. 7538; Gaz. vol. 154; p. 1273.
Barnum, William T., Chicago, Ill. Flash-light apparatus. No. 956,267; Apr. 26; Sp. p. 5604; Gaz. vol. 153; p. 977.
Barnum, William W., Indianapolis, Ind. Means for building concrete structures. No. 946,991; Jan. 18; Sp. p. 4435; Gaz. vol. 150; p. 730.
Barnwell, James B. Valdosta, Ga. Gate-latch. No. 960,777; June 7, Sp. p. 1091; Gaz. vol. 155; p. 183.
Baron, Bernhard, London, England. Tobacco-packet and apparatus for charging pipes from same. No. 945,676; Jan. 4; Sp. p. 1429; Gaz. vol. 150; p. 223.
Baron, Charles S. (See Haffey, James F., assignor.)
Baron, Charles S., Tiffin, Ohio. Receptacle-top. No. 949,053; Feb. 15; Sp. p. 2689; Gaz. vol. 151; p. 479.
Baron, Charles S., and J. F. Haffey, Tiffin, Ohio. Receptacle or container. No. 958,713; May 24; Sp. p. 4981; Gaz. vol. 154; p. 843.
Baron, Herman C., New York, N. Y. Hat-pressing machine. No. 954,495; Apr. 12; Sp. p. 1714; Gaz. vol. 153; p. 307.
Baron, Michael. (See Dembinski, John, assignor.)
Baron, René J. F. S., Paris, France. Electric-lamp fitting. No. 965,853; Aug. 2; Sp. p. 13; Gaz. vol. 157; p. 5.
Baron, René J. F. S., Paris, France. Cable-controller for electrical apparatus. No. 972,319; Oct. 11; Sp. p. 1747; Gaz. vol. 159; p. 307.
Barr, Albert D., Batesville, Ark. Medicament and producing the same. No. 966,642; Aug. 9; Sp. p. 1726; Gaz. vol. 157; p. 294.
Barr, Albert D., Batesville, Ark. Medicament and making the same. No. 966,643; Aug. 9; Sp. p. 1727; Gaz. vol. 157; p. 294.
Barr, Albert D., Jersey City, N. J. Producing medicaments. No. 966,786; Aug. 9; Sp. p. 2069; Gaz. vol. 157; p. 344.
Barr, Carl, Chicago, Ill. Faucet. No. 950,801; Mar. 1; Sp. p. 737; Gaz. vol. 152; p. 117.
Barr, Charles R., Ashland, Ohio. Draft attachment for vehicles. No. 968,730; Aug. 30; Sp. p. 6194; Gaz. vol. 157; p. 1082.
Barr, Daniel M., Philadelphia, Pa. Tide-motor. No. 971,343; Sept. 27; Sp. p. 4671; Gaz. vol. 158; p. 817.
Barr, Emmett, assignor of one-half to C. M. Parker, Garrett, Ind. Shock-absorber for plows. No. 977,364; Nov. 29; Sp. p. 7246; Gaz. vol. 160; p. 1229.
Barr, Frederic, New York, N. Y. Pull-socket for electric switches. No. 958,988; May 24; Sp. p. 5591; Gaz. vol. 154; p. 940.
Barr, George, La Center, Wash. Draft-gear for railway-cars. No. 960,778; June 7; Sp. p. 1092; Gaz. vol. 155; p. 183.
Barr, Harry E., and C. Wainwright, Erie, Pa. Valve. No. 955,043; Apr. 12; Sp. p. 2930; Gaz. vol. 153; p. 496.
Barr, Harry P. (See Bugg, Owen T., Jr., assignor.)
Barr, Henry G., Worcester, Mass. Automatic reversing mechanism for drills and the like. No. 961,334; June 14; Sp. p. 2261; Gaz. vol. 155; p. 399.
Barr, Homer A., Ashland, Pa. Vapor-burning lamp. No. 962,296; June 21; Sp. p. 4321; Gaz. vol. 155; p. 746.
Barr, John H., Kansas City, Mo. Cylinder printing-press. No. 956,751; May 3; Sp. p. 532; Gaz. vol. 154; p. 86.
Barr, John H., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 969,326; Sept. 6; Sp. p. 366; Gaz. vol. 158; p. 60.
Barr, John H., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 975,110; Nov. 8; Sp. p. 2336; Gaz. vol. 160; p. 381.
Barr, John M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Manufacturing parts of brush-holders and similar devices. No. 969,511; Sept. 6; Sp. p. 760; Gaz. vol. 158; p. 120.
Barr, John U., New York, N. Y. Locking-chain. No. 967,308; Aug. 16; Sp. p. 3153; Gaz. vol. 157; p. 546.
Barr, Joseph A., Rochester, N. Y. Water-closet. No. 947,782; Feb. 1; Sp. p. 9; Gaz. vol. 151; p. 4.
Barr, Luther O., Mount Andrew, Ala. Removable umbrella-cover. No. 973,100; Oct. 18; Sp. p. 3502; Gaz. vol. 159; p. 605.
Barr, William H., Brooklyn, N. Y. Ventilator. No. 951,931; Mar. 15; Sp. p. 2998; Gaz. vol. 152; p. 543.
Barrall, Thomas R. (See Case and Barrall.)
Barrell, Charles S., Boston, Mass., assignor to Barrell Holding & Manufacturing Company, Portland, Me. Armor for vehicle-tires. No. 953,000; Mar. 22; Sp. p. 5184; Gaz. vol. 152; p. 930.
Barrell Holding & Manufacturing Company. (See Barrell, Charles S., assignor.)
Barrelle, Marie A. L. (See Logan and Barrelle.)
Barrett, Charles R., Chicago, Ill. Machine for forming loops on coil-springs. No. 971,238; Sept. 27; Sp. p. 4478; Gaz. vol. 158; p. 783.
Barrett, Edward R., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 977,582; Dec. 6; Sp. p. 382; Gaz. vol. 161; p. 56.
Barrett, Edwin W., assignor to The Stafford Company, Readville, Mass. Weft-replenishing loom. No. 952,498; Mar. 22; Sp. p. 4121; Gaz. vol. 152; p. 759.
Barrett, Glenn J., Syracuse, N. Y., assignor to Burroughs Adding Machine Company, Detroit, Mich. Combined type-writing and amount-listing machine. No. 972,150; Oct. 11; Sp. p. 1373; Gaz. vol. 159; p. 251.
Barrett, Glenn J., assignor of two-thirds to Grand Rapids Brass Company, Grand Rapids, Mich. Calculating-machine. No. 976,336; Nov. 22; Sp. p. 4978; Gaz. vol. 160; p. 848.
Barrett, Harold G., Wilmette, Ill. Game apparatus. No. 975,316; Nov. 8; Sp. p. 2793; Gaz. vol. 160; p. 451.
Barrett, Harold G., Wilmette, assignor to J. H. Lee, Chicago, Ill. Billiard-table, pool-table, &c. No. 945,150; Jan. 4; Sp. p. 291; Gaz. vol. 150; p. 50.
Barrett, Harry A. (See Auble, James H., assignor.)
Barrett, Harry A. (See Auble and Barrett.)
Barrett, Jacob C. (See McDonald and Barrett.)
Barrett, James M., Jersey City, N. J. Railway freight-transfer station. No. 976,140; Nov. 22; Sp. p. 4508; Gaz. vol. 160; p. 781.
Barrett, Jesse B., Niagara Falls, N. Y. Stove. No. 945,904; Jan. 11; Sp. p. 2007; Gaz. vol. 150; p. 333.
Barrett, Nettie, Mount Sterling, Ohio. Canning device. No. 972,800; Oct. 18; Sp. p. 2797; Gaz. vol. 159; p. 500.
Barrett, Timothy R., Bordentown, N. J. Apparatus for producing illusory dramatic effects. No. 976,976; Nov. 29; Sp. p. 6417; Gaz. vol. 160; p. 1096.
Barrett, William F. (See Holland and Barrett.)
Barrett, William H., Rockford, Ill. Scaffold-bracket. No. 965,854; Aug. 2; Sp. p. 16; Gaz. vol. 157; p. 5.
Barrez, Charles, Paris, France. Machine for the automatic manufacture of blown-glass articles. No. 964,198; July 12; Sp. p. 2547; Gaz. vol. 156; p. 420.
Barrick, Christopher C., Canton, Ohio. Column. No. 973,615; Oct. 25; Sp. p. 4626; Gaz. vol. 159; p. 804.
Barrick, Livy L., assignor of one-third to C. G. Dawson, Moundsville, W. Va., and one-third to A. Loehl, Washington, D. C. Wrench. No. 948,870; Feb. 8; Sp. p. 2299; Gaz. vol. 151; p. 391.
Barricklow, Irvin E., Antioch, Cal. Electric fuse. No. 973,250; Oct. 18; Sp. p. 3843; Gaz. vol. 159; p. 657.
Barrickman, Harry L., Richwood, assignor of one-third to H. Morgan, Clarksburg, W. Va. Stay-bolt drill. No. 980,139; Dec. 27; Sp. p. 5911; Gaz. vol. 161; p. 1009.

Alphabetical list of patentees—Continued.

Barrickman, Sylvester A., Richwood, W. Va. Steam-locomotive. No. 972,790; Oct. 11; Sp. p. 2768; Gaz. vol. 159; p. 471.
Barrie, Robert C., Philadelphia, Pa. Amusement mechanism. No. 963,265; July 5; Sp. p. 610; Gaz. vol. 156; p. 85.
Barringer, Leonidas H., Charleston, W. Va. Airship. No. 965,682; July 26; Sp. p. 5814; Gaz. vol. 156; p. 988.
Barrire, Isidore B., Waterbury, Conn. Waxing apparatus. No. 967,156; Aug. 16; Sp. p. 2856; Gaz. vol. 157; p. 494.
Barritt, Leon, Brooklyn, N. Y. Educational apparatus. No. 959,987; May 31; Sp. p. 7721; Gaz. vol. 154; p. 1301.
Barrollier, Jean, Courbevoie, France. Machine for making the joint between the filament-support and the lamp-bulb in incandescent electric lamps. No. 968,524; Aug. 30; Sp. p. 5725; Gaz. vol. 157; p. 1009.
Barron, Amos N., Cleveland, and W. G. Waitt, Fremont, assignors to National Carbon Company, Cleveland, Ohio. Dry cell. No. 969,512; Sept. 6; Sp. p. 761; Gaz. vol. 158; p. 120.
Barron, Bert M., Kensington, Kans. Adjustable shelf-support. No. 966,883; Aug. 9; Sp. p. 2281; Gaz. vol. 157; p. 374.
Barron, George F., Palmyra, N. Y. Flexible pipe-joint. No. 954,496; Apr. 12; Sp. p. 1715; Gaz. vol. 153; p. 308.
Barron, James S., New York, N. Y. Bucket. No. 959,695; May 31; Sp. p. 7060; Gaz. vol. 154; p. 1199.
Barron, Richard E., Shattuck, Okla. Railway attachment. No. 946,992; Jan. 18; Sp. p. 4439; Gaz. vol. 150; p. 731.
Barron, Thomas H., New York, N. Y. Advertising device. No. 978,130; Dec. 13; Sp. p. 1554; Gaz. vol. 161; p. 276.
Barron, Walter J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 956,028; Apr. 26; Sp. p. 5054; Gaz. vol. 153; p. 894.
Barron, Walter J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 959,696; May 31; Sp. p. 7062; Gaz. vol. 154; p. 1199.
Barron, Walter J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 979,731; Dec. 27; Sp. p. 5002; Gaz. vol. 161; p. 873.
Barron, Walter J., New York, N. Y., assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 965,061; July 19; Sp. p. 4473; Gaz. vol. 156; p. 744.
Barrow, George W., Ratcliff, Ark. Manure-distributer and dump-cart. No. 947,538; Jan. 25; Sp. p. 5666; Gaz. vol. 150; p. 941.
Barrow, George W., Ratcliff, Ark. Seed-planter. No. 963,112; July 5; Sp. p. 231; Gaz. vol. 156; p. 30.
Barrow, Thomas, Detroit, Mich. Steam-boiler. No. 948,366; Feb. 8; Sp. p. 1222; Gaz. vol. 151; p. 223.
Barrow, Thomas, Detroit, Mich. Circulating attachment for boilers. No. 974,736; Nov. 1; Sp. p. 1484; Gaz. vol. 160; p. 229.
Barrow, Thomas, Davenport, Iowa. Steam-boiler. No. 949,953; Feb. 22; Sp. p. 4574; Gaz. vol. 151; p. 818.
Barrows, Hiram, Hebron, Ill. Gambrel. No. 959,287; May 24; Sp. p. 6213; Gaz. vol. 154; p. 1038.
Barrows, Robert Y. (See Bohl and Barrows.)
Barry, Frederick W., Louisville, Ky. Sheet-metal-working machine. No. 963,850; July 12; Sp. p. 1846; Gaz. vol. 156; p. 304.
Barry, James. (See Plunkett, Hugh E., assignor.)
Barry, John, and M. L. Shaughnessy, Westphalia, Kans. Lace-reel. No. 972,745; Oct. 11; Sp. p. 2687; Gaz. vol. 159; p. 456.
Barry, John, Jr., Antelope, Tex. Detachable neck-yoke. No. 957,179; May 10; Sp. p. 1463; Gaz. vol. 154; p. 261.
Barry, John A. (See Service and Emley, assignors.)
Barry-Wehmiller Machinery Company. (See Dawson, Joseph W., assignor.)
Barstow, George E., assignor to Thomson Electric Welding Company, Lynn, Mass. Clamp for electric welding-machines. No. 953,579; Mar. 29; Sp. p. 6464; Gaz. vol. 152; p. 1155.
Barstow, Nathaniel, Providence, R. I., assignor to N. Barstow Company. Tea or coffee strainer. No. 950,888; Mar. 1; Sp. p. 898; Gaz. vol. 152; p. 144.
Bart, Joseph, New York, N. Y. Line-holder. No. 966,297; Aug. 2; Sp. p. 956; Gaz. vol. 157; p. 152.
Bartell, Charles F. (See Clark and Bartell.)
Bartels, Carl, assignor to The Mosler Safe Company, Hamilton, Ohio. Hinge. No. 951,900; Mar. 15; Sp. p. 2940; Gaz. vol. 152; p. 532.
Bartels, Carl, assignor to The Mosler Safe Company, Hamilton, Ohio. Safe or vault. No. 971,344; Sept. 27; Sp. p. 4672; Gaz. vol. 158; p. 817.
Bartels, Georg, assignor to Company Land und Seekabelwerke, Aktiengesellschaft, Nippes, near Cologne, Germany. Electric cable. No. 966,644; Aug. 9; Sp. p. 1729; Gaz. vol. 157; p. 295.
Bartels, William A., Erie, Pa., assignor to C. Glover, New Britain, Conn. Coaster-brake. No. 975,389; Nov. 15; Sp. p. 2954; Gaz. vol. 160; p. 501.
Bartelsen, Henry B., Milwaukee, Wis. Sled. No. 949,169; Feb. 15; Sp. p. 2917; Gaz. vol. 151; p. 517.
Barth, Eli, Nevada, Ohio. Track for carriage-doors. No. 950,089; Feb. 22; Sp. p. 4915; Gaz. vol. 151; p. 865.
Barth, Hans. (See Knudsen and Barth.)
Barth, Moritz, Grunewald, near Berlin, Germany. Folding ladder. No. 950,469; Mar. 1; Sp. p. 5; Gaz. vol. 152; p. 3.
Bartholomae, William, assignor of one-half to H. Zimmerman, New York, N. Y. Sounding toy. No. 976,718; Nov. 22; Sp. p. 5789; Gaz. vol. 160; p. 980.
Bartholomäus, Rudolf, Dresden, Germany. Die-stock. No. 979,056; Dec. 20; Sp. p. 3536; Gaz. vol. 161; p. 618.
Bartholomew, Albert M., Stockton, Cal. Alarm for indicating life in buried persons. No. 956,268; Apr. 26; Sp. p. 5607; Gaz. vol. 153; p. 977.
Bartholomew, Earl, Waukegan, Ill. Machine for making wire fence. No. 966,156; Aug. 2; Sp. p. 664; Gaz. vol. 157; p. 106.
Bartholomew, Fleury K., Campbell, Cal. Adjustable drop-light attachment. No. 947,709; Jan. 25; Sp. p. 5996; Gaz. vol. 150; p. 999.
Bartholomew, John B., Peoria, Ill. Automobile. No. 973,251; Oct. 18; Sp. p. 3845; Gaz. vol. 159; p. 658.
Bartholomew, John B., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Threshing-machine frame. No. 958,213; May 17; Sp. p. 3835; Gaz. vol. 154; p. 648.
Bartholomew, John B., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Band-cutter and feeder. No. 959,445; May 31; Sp. p. 6522; Gaz. vol. 154; p. 1116.
Bartholomew, John B., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Band-cutter and feeder. No. 959,446; May 31; Sp. p. 6530; Gaz. vol. 154; p. 1116.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Cuff-press. No. 952,721; Mar. 22; Sp. p. 4620; Gaz. vol. 152; p. 837.
Bartholomew, William, and D. J. Phillips, assignors to Troy Laundry Machinery Company, Chicago, Ill. Stopping device. No. 952,407; Mar. 15; Sp. p. 3913; Gaz. vol. 152; p. 700.
Bartholomew, William O., *et al.* (See Martin, Stephen G., assignor.)
Bartick, John B., Boston, Mass. Furnace. No. 976,249; Nov. 22; Sp. p. 4801; Gaz. vol. 160; p. 820.
Bartles, Nelson E., and C. O. Hawkins, Irene, Tex. Device for cleaning flues. No. 961,574; June 14; Sp. p. 2759; Gaz. vol. 155; p. 478.
Bartlett Capping Machine Company. (See Bartlett, Leonard, assignor.)
Bartlett, Charles M., Lynchburg, Va. Twine-carrier. No. 951,587; Mar. 8; Sp. p. 2280; Gaz. vol. 152; p. 395.
Bartlett, Frank D. (See Taylor and Bartlett.)
Bartlett, Frank V. (See Strong and Bartlett.)
Bartlett, George N., *et al.* (See Laube, Godfried, assignor.)
Bartlett, George N. (See Laube, Godfried and H. R., assignors.)
Bartlett, George W., assignor to George W. Bartlett Rotary Engine Company, Tacoma, Wash. Rotary engine. No. 957,860; May 17; Sp. p. 2883; Gaz. vol. 154; p. 523.
Bartlett, Harry D. (See Lutz and Bartlett.)
Bartlett, John C., Philadelphia, Pa. Grate. No. 946,316; Jan. 11; Sp. p. 2878; Gaz. vol. 150; p. 477.
Bartlett, John W. (See Taylor and Bartlett.)
Bartlett, Kent W., Madison, Wis. Apparatus for treating liquids. No. 947,783; Feb. 1; Sp. p. 11; Gaz. vol. 151; p. 4.
Bartlett, Kent W., Madison, Wis., assignor to Northern Water Softener Company. Water-softening apparatus. No. 966,071; Aug. 2; Sp. p. 491; Gaz. vol. 157; p. 79.
Bartlett, Kent W., and J. J. Staley, assignors to Northern Water Softener Company, Madison, Wis. Apparatus for gas analysis. No. 945,740; Jan. 11; Sp. p. 1617; Gaz. vol. 150; p. 274.
Bartlett, Leonard, assignor to Bartlett Capping Machine Company, Philadelphia, Pa. Compensating device for bottle-capping machines. No. 957,926; May 17; Sp. p. 3044; Gaz. vol. 154; p. 546.
Bartlett, Leonard, assignor to Bartlett Capping Machine Company, Philadelphia, Pa. Compensating device for bottle-capping machines. No. 957,927; May 17; Sp. p. 3045; Gaz. vol. 154; p. 546.
Bartlett, Leonard, assignor to Bartlett Capping Machine Company, Philadelphia, Pa. Compensating device for bottle-capping machines. No. 957,928; May 17; Sp. p. 3046; Gaz. vol. 154; p. 547.
Bartlett, Leonard, assignor to Bartlett Capping Machine Company, Philadelphia, Pa. Clutch for capping-machines. No. 957,929; May 17; Sp. p. 3048; Gaz. vol. 154; p. 547.
Bartlett, Louis G., Somerville, Mass. Pneumatic-despatch-tube apparatus. No. 962,072; June 21; Sp. p. 3823; Gaz. vol. 155; p. 670.
Bartlett, Louis G., Somerville, Mass. Pneumatic-despatch-tube apparatus. No. 962,073; June 21; Sp. p. 3826; Gaz. vol. 155; p. 670.
Bartlett, Louis G., Somerville, assignor to Auto-Lighter & Equipment Company, Boston, Mass. Automatic gas ignition and control. No. 953,985; Apr. 5; Sp. p. 598; Gaz. vol. 153; p. 107.
Bartlett, Louis G., Somerville, assignor to Auto-Lighter & Equipment Company, Boston, Mass. Automatic gas ignition and control. No. 962,113; June 21; Sp. p. 3924; Gaz. vol. 155; p. 684.

Bartlett, O. L. (See Shonk and Hutchinson, assignors.)
Bartling, Christian L., Portland, Oreg. Loose-leaf binder. No. 955,307; Apr. 19; Sp. p. 3475; Gaz. vol. 153; p. 617.
Bartlow, Ora O., Newman, Ill. Gate-operator. No. 945,177; Jan. 4; Sp. p. 227; Gaz. vol. 150; p. 39.
Barton, Charles N., assignor of one-half to J. B. Blackman, Harrisburg, Ill. Bit for mining-machines of the cutting-chain type. No. 971,345; Sept. 27; Sp. p. 4675; Gaz. vol. 158; p. 817.
Barton, Elijah M., and J. Trump, Promise, Oreg. Sawhandle. No. 947,432; Jan. 25; Sp. p. 5406; Gaz. vol. 150; p. 905.
Barton, Henry L., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Governing apparatus. No. 976,839; Nov. 29; Sp. p. 6068; Gaz. vol. 160; p. 1046.
Barton Manufacturing Company. (See Schartow, Frank E., assignor.)
Barton, Percy. (See Barlow and Barton.)
Bartos, John P., Pine City, Minn. Hat-fastener. No. 966,516; Aug. 9; Sp. p. 1471; Gaz. vol. 157; p. 252.
Bartos, Vincent, Chicago, Ill. Sled-propeller. No. 968,525; Aug. 30; Sp. p. 5728; Gaz. vol. 157; p. 1010.
Bartow, Harry. (See Dawson, Robert C., assignor.)
Bartran, David W., Lake Charles, La. Baling-tie buckle. No. 948,585; Feb. 8; Sp. p. 1710; Gaz. vol. 151; p. 296.
Bartz, Frank, Hornellsville, assignor, by mesne assignments, to The A. J. Deer Company, Hornell, N. Y. Coffee-mill. No. 953,250; Mar. 29; Sp. p. 5755; Gaz. vol. 152; p. 1042.
Bartz, Frank, Hornellsville, assignor, by mesne assignments, to The A. J. Deer Co., Hornell, N. Y. Coffee-mill. No. 953,251; Mar. 29; Sp. p. 5756; Gaz. vol. 152; p. 1042.
Baruch, Samuel. (See Dessauer and Baruch.)
Barwick, John H., *et al.* (See Ashford, Thomas B., assignor.)
Barwis, Thomas S., Vancouver, British Columbia, Canada. Dredging-scoop. No. 956,269; Apr. 26; Sp. p. 5608; Gaz. vol. 153; p. 978.
Bary, William B., St. Petersburg, Russia. Means for making metals dense in liquid state. No. 964,371; July 12; Sp. p. 2894; Gaz. vol. 156; p. 478.
Bary, William B., St. Petersburg, Russia. Annular rotating furnace. No. 970,293; Sept. 13; Sp. p. 2462; Gaz. vol. 158; p. 415.
Bary, William B., St. Petersburg, Russia. Roller-bearing. No. 975,201; Nov. 8; Sp. p. 2555; Gaz. vol. 160; p. 413.
Basch, Rose and S., London, England. Tire. No. 950,985; Mar. 1; Sp. p. 1086; Gaz. vol. 152; p. 174.
Basch, Samuel. (See Basch, Rose and S.)
Bascom, Willard B., New York, N. Y. Vehicle-seat. No. 956,667; May 3; Sp. p. 346; Gaz. vol. 154; p. 57.
Bashlin, William B. M., Erie, Pa. Faucet. No. 954,607; Apr. 12; Sp. p. 1947; Gaz. vol. 153; p. 345.
Bashore, Chester C. (See Cromleigh, Rolland F., assignor.)
Basim, Harry B., Parkersburg, W. Va. Carbon-breaker. No. 960,779; June 7; Sp. p. 1094; Gaz. vol. 155; p. 183.
Basken, Izadore J., Pembina, N. D. Wrench. No. 961,673; June 14; Sp. p. 2959; Gaz. vol. 155; p. 511.
Basken, Izadore J., assignor of one-third to C. Atkinson, Pembina, N. D. Wrench. No. 948,035; Feb. 1; Sp. p. 535; Gaz. vol. 151; p. 86.
Baskin, Edwin T., Independence, assignor of one-half to S. P. Zimmerman, Kansas City, Mo. Combination mop and hardwood-floor device. No. 947,959; Feb. 1; Sp. p. 377; Gaz. vol. 151; p. 61.
Bason, Henry W., Mebane, N. C., assignor, by mesne assignments, to American Bent Wood Chair Company, Otego, N. Y. Wood-bending machine. No. 954,848; Apr. 12; Sp. p. 2527; Gaz. vol. 153; p. 431.
Bass, Clyde F., Strafford, Mo. Corn-planter. No. 974,851; Nov. 8; Sp. p. 1748; Gaz. vol. 160; p. 292.
Bass, Robert E., Fort Worth, Tex. Crude-oil burner. No. 959,288; May 24; Sp. p. 6214; Gaz. vol. 154; p. 1038.
Basset, Lucien P., assignor to M. B. de Labarthe, Paris, France. Apparatus for thermochemical generation of electricity. No. 963,980; July 12; Sp. p. 2117; Gaz. vol. 156; p. 346.
Bassett, Foster W., and W. A. Hunter, Jr., Los Angeles, Cal. Flushing device. No. 956,875; May 3; Sp. p. 813; Gaz. vol. 154; p. 129.
Bassett, Foster W., and W. A. Hunter, Jr., Los Angeles, Cal. Flushing-valve. No. 957,027; May 3; Sp. p. 1145; Gaz. vol. 154; p. 181.
Bassett, Foster W., and W. A. Hunter, Jr., Los Angeles, Cal. Flushing-valve mechanism. No. 957,028; May 3; Sp. p. 1146; Gaz. vol. 154; p. 181.
Bassett, Foster W., and W. A. Hunter, Jr., Los Angeles, Cal. Flushing-valve. No. 957,029; May 3; Sp. p. 1149; Gaz. vol. 154; p. 182.
Bassett, George B., Buffalo, N. Y. Water-meter connection. No. 953,505; Mar. 29; Sp. p. 6302; Gaz. vol. 152; p. 1130.
Bassett, George C., Winifrede, W. Va. Hat-pin holder. No. 971,484; Sept. 27; Sp. p. 4927; Gaz. vol. 158; p. 862.
Bassett, John H., Liberty, Mo. Plug-tobacco cutter. No. 945,077; Jan. 4; Sp. p. 148; Gaz. vol. 150; p. 25.
Bassett, Louis N. (See Coulston and Teeter, assignors.)
Bassett, Moses, Cleveland, Ohio. Shade and curtain-bracket. No. 958,463; May 17; Sp. p. 4498; Gaz. vol. 154; p. 736.
Bassett, Norman C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Balancing-machine. No. 953,811; Apr. 5; Sp. p. 262; Gaz. vol. 153; p. 46.
Bassett, William E., La Moine, Cal. Tool-holder. No. 953,580; Mar. 29; Sp. p. 6467; Gaz. vol. 152; p. 1156.
Bassford, William K., Perth Amboy, N. J. Carbureter. No. 946,632; Jan. 18; Sp. p. 3628; Gaz. vol. 150; p. 609.
Bassick, Edgar W., and C. F. Mosman, assignors to The Burns & Bassick Co., Bridgeport, Conn. Handle for drawers. No. 946,317; Jan. 11; Sp. p. 2879; Gaz. vol. 150; p. 477.
Bassist, Ellis, assignor to E. G. Soltmann, New York, N. Y. Producing printing-plates. No. 957,596; May 10; Sp. p. 2323; Gaz. vol. 154; p. 404.
Bassler, Edwin M., assignor to C. Van Deventer & Company, Chicago, Ill. Hopper. No. 949,672; Feb. 15; Sp. p. 3925; Gaz. vol. 151; p. 684.
Basso, Lorenzo, Genoa, Italy. Elastic suspension for vehicles. No. 948,689; Feb. 8; Sp. p. 1926; Gaz. vol. 151; p. 331.
Baster, Joseph E., Cleveland, Ohio. Cane-stripper. No. 954,159; Apr. 5; Sp. p. 984; Gaz. vol. 153; p. 166.
Bastian, August H., Sellwood, Oreg. Pruning implement. No. 945,677; Jan. 4; Sp. p. 1432; Gaz. vol. 150; p. 223.
Bastian, August H., Portland, Oreg. Fruit-picker. No. 980,045; Dec. 27; Sp. p. 5679; Gaz. vol. 161; p. 978.
Bastian, Benjamin F. (See Morgan, Richard W., assignor.)
Bastian-Blessing Company, The. (See Bell, Dillwyn M., assignor.)
Bastian, Charles L., Chicago, Ill. Draft-arm and other valve. No. 952,178; Mar. 15; Sp. p. 3458; Gaz. vol. 152; p. 622.
Bastian, Charles L., Chicago, Ill. Carbonating apparatus. No. 978,103; Dec. 6; Sp. p. 1463; Gaz. vol. 161; p. 236.
Bastian, Charles L., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 956,876; May 3; Sp. p. 816; Gaz. vol. 154; p. 130.
Bastian, Charles L., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Bottle-filling machine. No. 971,962; Oct. 4; Sp. p. 1014; Gaz. vol. 159; p. 168.
Bastian, Charles O., and A. E. Salisbury, London, England, assignors to The Cooper-Hewitt Electric Company. Vapor electric apparatus. No. 954,407; Apr. 5; Sp. p. 1500; Gaz. vol. 153; p. 249.
Bastian, Martin L., assignor to Olney Automobile Company, Limited, Philadelphia, Pa. Tire-pump for motor-vehicles. No. 948,807; Feb. 8; Sp. p. 2186; Gaz. vol. 151; p. 371.
Bastian, Martin L., assignor to Olney Automobile Company, Limited, Philadelphia, Pa. Tire-inflating pump. No. 957,597; May 10; Sp. p. 2325; Gaz. vol. 154; p. 404.
Bastion, Elisha H., Fairbury, Ill. Safety-plug. No. 950,271; Feb. 22; Sp. p. 5295; Gaz. vol. 151; p. 928.
Bataille, Achille, assignor to A. Bataille & Co., New York, N. Y. Folding gate. No. 949,739; Feb. 15; Sp. p. 4074; Gaz. vol. 151; p. 708.
Bataille & Co., A. (See Bataille, Achille, assignor.)
Batault, Emile. (See Kaplan and Batault.)
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric air-compressor. No. 947,882; Feb. 1; Sp. p. 227; Gaz. vol. 151; p. 37.
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric truck. No. 977,156; Nov. 29; Sp. p. 6810; Gaz. vol. 160; p. 1157.
Batchelder, Charles A. (See Johnson, Charles A., assignor.)
Batchelder, Charles A., Stoughton, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me., and Brockton, Mass. Boot and shoe tree. No. 970,165; Sept. 13; Sp. p. 2177; Gaz. vol. 158; p. 371.
Batcheller, Birney C., assignor to The Batcheller Pneumatic Tube Company, Philadelphia, Pa. Pneumatic-tube system. No. 961,999; June 21; Sp. p. 3659; Gaz. vol. 155; p. 643.
Batcheller Pneumatic Tube Company, The. (See Batcheller, Birney C., assignor.)
Batchelor, Henry, assignor of one-fourth to T. E. Allbright and one-twelfth to F. E. Gilkison, Shoals, Ind. Tool-holder. No. 961,203; June 14; Sp. p. 1949; Gaz. vol. 155; p. 352.
Batchelor, Raymond C., Baltimore, Md. Sealing-strap for shipping-packages. No. 972,594; Oct. 11; Sp. p. 2373; Gaz. vol. 159; p. 405.
Batchelor, Sanford L., Worcester, Mass. Railway-switch-operating mechanism. No. 966,072; Aug. 2; Sp. p. 494; Gaz. vol. 157; p. 79.
Batdorf, Charles S., Brooklyn, assignor to Automatic Coin-Wrapping Machine Company, New York, N. Y. Automatic stop mechanism. No. 973,335; Oct. 18; Sp. p. 4020; Gaz. vol. 159; p. 688.
Batdorf, Charles S., Brooklyn, assignor to Automatic Coin Wrapping Machine Company, New York, N. Y. Mechanical agitator. No. 975,202; Nov. 8; Sp. p. 2555; Gaz. vol. 160; p. 413.
Bate, Warwick G., Cleveland, Ohio. Building-block. No. 968,731; Aug. 30; Sp. p. 6195; Gaz. vol. 157; p. 1082.

Alphabetical list of patentees—Continued.

Bate, William L., assignor to Sweet, Orr & Company, Newburgh, N. Y. Separable button. No. 960,780; June 7; Sp. p. 1094; Gaz. vol. 155; p. 184.
Bateman, William M., Philadelphia, and J. C. Levett, Chester, Pa. Anchor. No. 961,095; June 14; Sp. p. 1734; Gaz. vol. 155; p. 315.
Baten, Thomas J. (See Baten, William L., assignor.)
Baten, William L., Campti, La., assignor of one-half to T. J. Baten, Beaumont, Tex. Device for dipping lumber. No 966,988; Aug. 9; Sp. p. 2494; Gaz. vol. 157; p. 410.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Valve-bag. No. 946,318; Jan. 11; Sp. p. 2881; Gaz. vol. 150; p. 478.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Bagging-machine. No. 959,447; May 31; Sp. p. 6535; Gaz. vol. 154; p. 1117.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Boston, Mass., and Paterson, N. J. Press. No. 950,986; Mar. 1; Sp. p. 1088; Gaz. vol. 152; p. 174.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Inseam-trimming machine. No. 960,781; June 7; Sp. p. 1096; Gaz. vol. 155; p. 184.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine having a vibrating tool employed in the manufacture of boots and shoes. No. 979,249; Dec. 20; Sp. p. 3995; Gaz. vol. 161; p. 687.
Bates, Arthur, and J. P. Pride, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Jack-locking device. No. 949,460; Feb. 15; Sp. p. 3520; Gaz. vol. 151; p. 615.
Bates, Arthur C., Brownsville, assignor of one-half to A. Kahn, San Francisco, Cal. Portable lock for doors and windows. No. 971,717; Oct. 4; Sp. p. 430; Gaz. vol. 159; p. 75.
Bates, Eddo V., Lowell, Mass. Feeding device for carding-machines. No. 977,502; Dec. 6; Sp. p. 175; Gaz. vol. 161; p. 29.
Bates, Edward T., Washington, D. C. Tiling. No. 947,290; Jan. 26; Sp. p. 5064; Gaz. vol. 150; p. 856.
Bates, Fouts & Hall. (See Dennis, Adolphus S., assignor.)
Bates, George A. (See Owen and Bates.)
Bates, George M., Lebanon, Mo. Pan-scraper. No. 975,599; Nov. 15; Sp. p. 3382; Gaz. vol. 160; p. 574.
Bates, Harry, Albany, assignor to Underwood Automatic Typewriter Pay Station Company, New York, N. Y. Coin and time controlled type-writing machine, &c. No. 949,816; Feb. 22; Sp. p. 4261; Gaz. vol. 151; p. 768.
Bates, Henry A., Middletown, Conn. Shuttle for sewing-machines. No. 951,554; Mar. 8; Sp. p. 2221; Gaz. vol. 152; p. 385.
Bates, Lillie F. (See Ford, Raymond S., assignor.)
Bates, Oliver J., Tilton, Iowa. Igniter-gear for explosive-engines. No. 946,816; Jan. 18; Sp. p. 4045; Gaz. vol. 150; p. 671.
Bates, Robert, *et al.* (See Gossett, William, assignor.)
Bates, Samuel F. (See Brown and Bates.)
Bates, Thomas O., Liverpool, England. Machinery for making cup-wafers, sugar-wafer biscuits, and the like. No. 949,817; Feb. 22; Sp. p. 4265; Gaz. vol. 151; p. 769.
Bates, Thomas O., Liverpool, England. Manufacture of cup, cornet, and like biscuits. No. 972,985; Oct. 18; Sp. p. 3258; Gaz. vol. 159; p. 567.
Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)
Bathrick, Walter H., Somerville, Mass. System for the transmission of electromagnetic waves with sound-regulated frequencies. No. 948,156; Feb. 1; Sp. p. 775; Gaz. vol. 151; p. 127.
Batos, John. (See Hrivnák and Batos.)
Batt, Charles F., New York, N. Y. Tire-carrier. No. 962,730; June 28; Sp. p. 5272; Gaz. vol. 155; p. 920.
Batt, Henry, Hendersyde Park, Kelso, Scotland. Electric ignition device for internal-combustion engines. No. 969,327; Sept. 6; Sp. p. 371; Gaz. vol. 158; p. 60.
Batten, Ernest W., Herne Hill, London, England. Automatic pneumatic musical instrument. No. 963,981; July 12; Sp. p. 2119; Gaz. vol. 156; p. 347.
Batten, John H., Jamestown, Cal. Means for extracting gold from river-beds. No. 962,612; June 28; Sp. p. 5026; Gaz. vol. 155; p. 879.
Battershall, Joseph W., Attleboro, Mass. Appliance for treatment of spinal affections. No. 970,781; Sept. 20; Sp. p. 3529; Gaz. vol. 158; p. 603.
Battersbell, Francis A., assignor of one-half to L. Taylor, Boulder, Mont. Hay-loader. No. 963,113; July 5; Sp. p. 234; Gaz. vol. 156; p. 31.
Battey, Sumter B., New York, N. Y. Automatic lighter. No. 970,294; Sept. 13; Sp. p. 2464; Gaz. vol. 158; p. 415.
Battle, Leander R., Lakeland, Fla. Ash-pan for locomotives. No. 959,106; May 24; Sp. p. 5842; Gaz. vol. 154; p. 979.
Battle, Robert H. (See Sawyer, Walter H., assignor.)
Battmann, Emile. (See Lacoste and Battmann.)
Batty, Richard B. (See Todd and Batty.)
Batzel, Eugen P., Buffalo, N. Y. Multiple-telegraph system. No. 960,482; June 7; Sp. p. 479; Gaz. vol. 155; p. 81.
Baublits, Raymond, *et al.* (See Dorsey, Walter W. and J. C., assignors.)
Bauch, George and W. G., Chicago, Ill. Stove. No. 959,107; May 24; Sp. p. 5843; Gaz. vol. 154; p. 979.
Bauch, Walter G. (See Bauch, George and W. G.)
Baucum, Samuel C., assignor of one-half to J. Grace, McAlester, Okla. Antifriction fifth-wheel. No. 976,620; Nov. 22; Sp. p. 5603; Gaz. vol. 160; p. 947.
Bauder, Clarence A., Herrin, Ill. Railway-joint. No. 959,289; May 24; Sp. p. 6215; Gaz. vol. 154; p. 1038.
Baudoux, Joseph E. I., Bourges, France. Automatic tensioning device particularly applicable to clutches. No. 945,301; Jan. 4; Sp. p. 642; Gaz. vol. 150; p. 100.
Baudry, Albert, Kief, Russia. Purifying and sterilizing water. No. 958,848; May 24; Sp. p. 5303; Gaz. vol. 154; p. 893.
Bauer, August F., Kansas City, Mo. Gas or vapor stove. No. 963,266; July 5; Sp. p. 611; Gaz. vol. 156; p. 85.
Bauer, August G., Columbus, Ohio. Book-holder. No. 967,877; Aug. 23; Sp. p. 4317; Gaz. vol. 157; p. 761.
Bauer, August G., assignor to D. E. and H. F. Bauer, Columbus, Ohio. Dividing and banding machine. No. 967,878; Aug. 23; Sp. p. 4319; Gaz. vol. 157; p. 762.
Bauer, Carl E., Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Brake-beam finger-guard. No. 953,314; Mar. 29; Sp. p. 5876; Gaz. vol. 152; p. 1061.
Bauer & Cie. (See Busch, Albert, assignor.)
Bauer, D. Elizabeth, *et al.* (See Bauer, August G., assignor.)
Bauer, Gustavus A., Chicago, Ill. Dust-collector. No. 956,270; Apr. 26; Sp. p. 5609; Gaz. vol. 153; p. 978.
Bauer, Gustavus A., Chicago, Ill. Motor-controller. No. 979,250; Dec. 20; Sp. p. 4001; Gaz. vol. 161; p. 688.
Bauer, Herman F., *et al.* (See Bauer, August G., assignor.)
Bauer, John H., Elm, N. D. Force-feed seeder. No. 968,526; Aug. 30; Sp. p. 5730; Gaz. vol. 157; p. 1010.
Bauer, Joseph P., and F. C. Stimmel, assignors to The Casey-Hedges Company, Chattanooga, Tenn. Boiler-hanger. No. 979,732; Dec. 27; Sp. p. 5006; Gaz. vol. 161; p. 874.
Bauer, Victor, Horton, Kans. Spring-tire. No. 961,065; June 7; Sp. p. 1660; Gaz. vol. 155; p. 278.
Bauer, Wilhelm, Vohwinkel, near Elberfeld, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue vat dye. No. 958,464; May 17; Sp. p. 4499; Gaz. vol. 154; p. 736.
Bauer, Wilhelm, Vohwinkel, near Elberfeld, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue vat dye. No. 958,465; May 17; Sp. p. 4500; Gaz. vol. 154; p. 737.
Bauer, Wilhelm, Vohwinkel, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 961,396; June 14; Sp. p. 2367; Gaz. vol. 155; p. 419.
Bauer, Wilhelm, Vohwinkel, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dyestuff. No. 961,397; June 14; Sp. p. 2368; Gaz. vol. 155; p. 419.
Bauer, Wilhelm, Vohwinkel, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue dye. No. 961,398; June 14; Sp. p. 2369; Gaz. vol. 155; p. 419.
Bauer, Wilhelm, Vohwinkel, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue dye. No. 961,399; June 14; Sp. p. 2370; Gaz. vol. 155; p. 419.
Bauer, Wilhelm, Vohwinkel, near Elberfeld, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue vat dye. No. 980,140; Dec. 27; Sp. p. 5912; Gaz. vol. 161; p. 1009.
Bäuerle, Firm of Math. (See Bäuerle, Tobias, assignor.)
Bäuerle, Tobias, St. Georgen, Germany, assignor to The Velochrone Company, New York, N. Y. Combined speed and time indicator. No. 958,074; May 17; Sp. p. 3561; Gaz. vol. 154; p. 600.
Bäuerle, Tobias, St. Georgen, Schwarzwald, assignor to Firm of M. Bäuerle, Baden, Germany. Calculating-machine. No. 967,489; Aug. 16; Sp. p. 3541; Gaz. vol. 157; p. 608.
Baugh, Thomas J., Hopkinsville, Ky. Cable-clip. No. 957,300; May 10; Sp. p. 1744; Gaz. vol. 154; p. 305.
Baugh, William T., Commerce, Ga. Table. No. 952,408; Mar. 15; Sp. p. 3917; Gaz. vol. 152; p. 701.
Baughn, J. W., *et al.* (See Baughn, Samuel C., assignor.)
Baughn, Samuel C., assignor of one-half to J. W. Baughn and G. A. Wright and one-fourth to S. M. Greer, Canalou, Mo. Cattle-guard. No. 947,691; Jan. 25; Sp. p. 5962; Gaz. vol. 150; p. 992.
Bauknecht, Edward M., Martins Ferry, Ohio. Vehicle-seat lock. No. 978,104; Dec. 6; Sp. p. 1466; Gaz. vol. 161; p. 236.
Baum, James B., assignor of one-sixth to T. P. McGvire, Grand Junction, Colo. Table. No. 950,739; Mar. 1; Sp. p. 602; Gaz. vol. 152; p. 95.
Baum, John, Jr., East Liverpool, Ohio. Sectional liner. No. 951,719; Mar. 8; Sp. p. 2524; Gaz. vol. 152; p. 439.
Baum, Louis, Harrisburg, Pa., assignor to A. Kimball Company, New York, N. Y. Pin-ticket. No. 972,791; Oct. 11; Sp. p. 2769; Gaz. vol. 159; p. 471.

Alphabetical list of patentees—Continued.

Baum, William F., Philadelphia, Pa. Coupling. No. 953,506; Mar. 29; Sp. p. 6304; Gaz. vol. 152; p. 1130.
Bauman, Henry G., Indiana Harbor, Ind. Attachment for cameras. No. 961,425; June 14; Sp. p. 2426; Gaz. vol. 155; p. 425.
Bauman, William, Cheyenne, Okla. Cotton chopper and cultivator. No. 974,015; Oct. 25; Sp. p. 5460; Gaz. vol. 159; p. 946.
Baumann, Albert A., Wauwatosa, Wis. Plumb-level. No. 957,834; May 10; Sp. p. 2820; Gaz. vol. 154; p. 484.
Baumann, Albert J., Portland, Oreg. Grain-huller. No. 965,553; July 26; Sp. p. 5539; Gaz. vol. 156; p. 943.
Baumann, Carl R., Gavirate, Italy, and G. G. Diesser, Zurich, Switzerland. Obtaining silk fibroin. No. 976,977; Nov. 29; Sp. p. 6419; Gaz. vol. 160; p. 1096.
Baumann, Edward C. (See Sawyer, Eugene W., assignor.)
Baumer, Bertha. (See Baumer, Clarence E. and B.)
Baumer, Bertha. (See Baumer, King, and Baumer.)
Baumer, Clarence E. and B., Troy, Ohio. Safety attachment for elevators. No. 958,580; May 17; Sp. p. 4719; Gaz. vol. 154; p. 775.
Baumer, Clarence E., B. Baumer, W. R. King, and M. E. Baumer, Troy, Ohio. Horse-releasing device. No. 967,157; Aug. 16; Sp. p. 2858; Gaz. vol. 157; p. 495.
Baumer, Mary E. (See Baumer, King, and Baumer.)
Baumgardner, Sidney W., Buffalo, N. Y. Emery-wheel stand. No. 952,866; Mar. 22; Sp. p. 4923; Gaz. vol. 152; p. 886.
Baumgarten, Emil, Barmen, Germany. Woven elastic fabric. No. 978,541; Dec. 13; Sp. p. 2422; Gaz. vol. 161; p. 417.
Baumgarten, Louis E. (See Craig, Parley W., assignor.)
Baumgartner, Charles B., Chicago, assignor, by mesne assignments, to Interlocking Fence Company, Morton, Ill. Fence-making machine. No. 980,046; Dec. 27; Sp. p. 5680; Gaz. vol. 161; p. 978.
Baumgartner, Joseph, St. Louis, Mo. Mail-box register. No. 973,156; Oct. 18; Sp. p. 3633; Gaz. vol. 159; p. 625.
Baur, Paul, Brugg, Switzerland. Narrowing slits punched in plates of hard metal. No. 965,855; Aug. 2; Sp. p. 17; Gaz. vol. 157; p. 6.
Bausch, Edward, and W. L. Patterson, Rochester, N. Y., assignors, by mesne assignments, to Bausch & Lomb Optical Company. Microscope. No. 949,749; Feb. 22; Sp. p. 4115; Gaz. vol. 151; p. 745.
Bausch, George, Syracuse, N. Y. Eyeglasses. No. 965,130; July 19; Sp. p. 4599; Gaz. vol. 156; p. 767.
Bausch, Henry, Rochester, N. Y., assignor, by mesne assignments, to Bausch & Lomb Optical Company, (No. 2.) Adjustment for telescopes. No. 975,672; Nov. 15; Sp. p. 3566; Gaz. vol. 160; p. 600.
Bausch & Lomb Optical Co. (See Saegmuller, George N., assignor.)
Bausch & Lomb Optical Company. (See Bausch and Patterson, assignors.)
Bausch & Lomb Optical Company. (See Flad, Gotlieb H., assignor.)
Bausch & Lomb Optical Company. (See Kellner, Gustav A. H., assignor.)
Bausch & Lomb Optical Company. (See Patterson, William L., assignor.)
Bausch & Lomb Optical Company. (See Saegmuller and Grebe, assignors.)
Bausch & Lomb Optical Company, (No. 2.) (See Bausch, Henry, assignor.)
Bausch, William, and J. Scheib, Rochester, N. Y. Headrest for chairs. No. 949,369; Feb. 15; Sp. p. 3342; Gaz. vol. 151; p. 585.
Bausher, Thomas D., Reading, Pa. Fuel-cartridge. No. 969,151; Sept. 6; Sp. p. 3; Gaz. vol. 158; p. 3.
Bausher, Thomas D., Reading, Pa. Portable thawing-furnace. No. 971,105; Sept. 27; Sp. p. 4188; Gaz. vol. 158; p. 739.
Bausmith, William T., Bellevue, Ky., assignor to Victor Safe & Lock Co., Cincinnati, Ohio. Mold for hollow castings. No. 948,288; Feb. 1; Sp. p. 1039; Gaz. vol. 151; p. 170.
Baust, George H., South Omaha, Nebr. Automatic beef-spreader gambrel. No. 946,195; Jan. 11; Sp. p. 2609; Gaz. vol. 150; p. 433.
Baxter, Albert W. (See Stark and Baxter.)
Baxter, Berry A., Mansfield, Ohio. Stove-leg. No. 961,928; June 21; Sp. p. 3510; Gaz. vol. 155; p. 620.
Baxter, George L., Salt Lake City, Utah. Folding ironing-board. No. 976,621; Nov. 22; Sp. p. 5605; Gaz. vol. 160; p. 948.
Baxter, Hartley C., Brunswick, Me. Apparatus for cooking corn and other food products. No. 959,448; May 31; Sp. p. 6537; Gaz. vol. 154; p. 1117.
Baxter, John M., *et al.* (See Hiett, William S., assignor.)
Baxter, Noah. (See Webb and Baxter.)
Baxter, Samuel, Staleybridge, England. Vehicle-fender. No. 965,272; July 26; Sp. p. 4896; Gaz. vol. 156; p. 845.
Bay State Corset Company. (See Titus, Clarkson, and Andrews, assignors.)
Bay State Tap and Die Company. (See Williams, Charles E., assignor.)
Bayer, Herbert C., London, England. Corset. No. 951,674; Mar. 8; Sp. p. 2461; Gaz. vol. 152; p. 426.
Bayer, Joseph C. (See Leo and Bayer.)
Bayer, Leo J., St. Louis, Mo. Boiler-cleaner. No. 978,830; Dec. 20; Sp. p. 3030; Gaz. vol. 161; p. 539.
Bayer, William F., Buffalo, N. Y. Combined air-governor and expression device. No. 961,335; June 14; Sp. p. 2263; Gaz. vol. 155; p. 399.
Bayer, William F., assignor to Chase & Baker Company, Buffalo, N. Y. Spool for music-sheets. No. 958,214; May 17; Sp. p. 3838; Gaz. vol. 154; p. 648.
Bayer, William F., assignor to The Chase & Baker Company, Buffalo, N. Y. Key-lock for autopianos. No. 971,657; Oct. 4; Sp. p. 306; Gaz. vol. 159; p. 55.
Bayer, William F., assignor to The Chase & Baker Company, Buffalo, N. Y. Pneumatic action for musical instruments. No. 977,259; Nov. 29; Sp. p. 7020; Gaz. vol. 160; p. 1194.
Bayles, Frederick P. (See Barnett and Bayles.)
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Feed-screw mechanism. No. 959,911; May 31; Sp. p. 7541; Gaz. vol. 154; p. 1274.
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Combined throttle-valve and oiler. No. 965,554; July 26; Sp. p. 5541; Gaz. vol. 156; p. 944.
Bayley, Charles H., Boston, and B. F. Mayo, Salem, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Pressure device for leather-skiving machines. No. 975,495; Nov. 15; Sp. p. 3156; Gaz. vol. 160; p. 538.
Bayley, Charles S., Auckland, New Zealand. Trolley-head for electric cars. No. 954,014; Apr. 5; Sp. p. 655; Gaz. vol. 153; p. 117.
Bayley, Lewis D., Hartford, Conn. Sanitary support for toilet-fittings. No. 955,247; Apr. 19; Sp. p. 3352; Gaz. vol. 153; p. 598.
Baylis, Everest A., Madera, Mexico. Feeder for tube-mills. No. 960,782; June 7; Sp. p. 1101; Gaz. vol. 155; p. 184.
Baylis, Francis R., Lansing, Mich. Sectional pneumatic tube. No. 976,840; Nov. 29; Sp. p. 6070; Gaz. vol. 160; p. 1046.
Baylis, Robert N., Montclair, N. J. Sound-locater. No. 977,503; Dec. 6; Sp. p. 177; Gaz. vol. 161; p. 29.
Baylor, William W., *et al.* (See Omalia, Michael, assignor.)
Bayly, Harry E., assignor of one-third to R. G. Burlingame and one-third to H. M. McCormack, Indianapolis, Ind. Steering device. No. 979,411; Dec. 27; Sp. p. 4306; Gaz. vol. 161; p. 763.
Baynard, William H., Boston, assignor to A. E. Little & Company, Lynn, Mass. Jig for boring jack-holes in lasts. No. 948,284; Feb. 1; Sp. p. 1030; Gaz. vol. 151; p. 169.
Bayne, Roy I., Verdigris, Nebr. Folding shipping-crate. No. 953,581; Mar. 29; Sp. p. 6469; Gaz. vol. 152; p. 1156.
Bayusz, Frank, and V. Kovács, New Castle, Pa. Railway-switch. No. 959,421; May 24; Sp. p. 6461; Gaz. vol. 154; p. 1082.
Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Uncoupling mechanism for cars. No. 947,747; Jan. 25; Sp. p. 6061; Gaz. vol. 150; p. 1011.
Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 947,748; Jan. 25; Sp. p. 6062; Gaz. vol. 150; p. 1011.
Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Chain-hole cap for car-couplings. No. 975,926; Nov. 15; Sp. p. 4065; Gaz. vol. 160; p. 685.
Beach, Benjamin W., Georgetown Station, N. Y. Combined rinser and sterilizer. No. 972,746; Oct. 11; Sp. p. 2688; Gaz. vol. 159; p. 456.
Beach, Charles. (See Hotchkiss and Beach.)
Beach, Charles S., *et al.* (See Malone, Frank, assignor.)
Beach, Clarence E. (See Doughty and Beach.)
Beach, Edward. (See Tucker and Beach.)
Beach, Edward A., Altoona, Pa. Vegetable or fruit strainer. No. 960,248; June 7; Sp. p. 10; Gaz. vol. 155; p. 4.
Beach, Harold K. (See Brown and Beach.)
Beach, Howard L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller for electric motors. No. 969,513; Sept. 6; Sp. p. 762; Gaz. vol. 158; p. 121.
Beach, John A., Gouverneur, N. Y. Ironing-table. No. 960,783; June 7; Sp. p. 1102; Gaz. vol. 155; p. 184.
Beadle, George W., East Orange, N. J., assignor to Westinghouse Lamp Company. Machine for manufacturing incandescent lamps. No. 971,515; Oct. 4; Sp. p. 9; Gaz. vol. 159; p. 4.
Beagley, Hugh C. (See Griswold and Beagley.)
Beahm, Peter, Altoona, Pa. Automatic connector for train-pipes. No. 956,468; Apr. 26; Sp. p. 6025; Gaz. vol. 153; p. 1046.
Beahm, Peter, Altoona, assignor of one-third to C. A. Buch and one-third to J. P. Forsyth, Wayne, Pa. Metallic connection for automatic connectors for train-pipes. No. 959,290; May 24; Sp. p. 6217; Gaz. vol. 154; p. 1039.

Alphabetical list of patentees—Continued.

Beaird, Daniel H., Alabama City, assignor to O. B. Roper, Gadsden, Ala. Loom-shuttle. No. 947,523; Jan. 25; Sp. p. 5634; Gaz. vol. 150; p. 936.
Beal, Alpha R., and A. Hettel, Rochester, N. Y.; said Hettel assignor to said Beal. Hollow column. No. 965,982; Aug. 2; Sp. p. 291; Gaz. vol. 157; p. 48.
Beal, Alpha R., and A. Hettel, Rochester, N. Y.; said Hettel assignor to said Beal. Dish-washing machine. No. 972,747; Oct. 11; Sp. p. 2690; Gaz. vol. 159; p. 457.
Beale, Arthur M., *et al.*, administrators. (See Beale, Joseph H.)
Beale, James J., Newark, N. J. Seal-press. No. 953,507; Mar. 29; Sp. p. 6305; Gaz. vol. 152; p. 1130.
Beale, Joseph H., *et al.*, administrators. (See Beale, Joseph H.)
Beale, Joseph H., deceased, Boston; J. H. Beale, Cambridge, and A. M. Beale, Boston, Mass., administrators. Lining and pad for stair-carpetings. No. 971,819; Oct. 4; Sp. p. 640; Gaz. vol. 159 · p. 113.
Beall, Charles W., and O. R. Bonner, New York, N. Y. Sanitary picture-molding. No. 963,982; July 12; Sp. p. 2120; Gaz. vol. 156; p. 347.
Beall, John S. (See Jarmin, James B., assignor.)
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Adjusting mechanism for plow-beams. No. 979,366; Dec. 20; Sp. p. 4207; Gaz. vol. 161; p. 725.
Bealmear, Herman. (See Norman, Frederick L., assignor.)
Beals, Albert E., Detroit, Mich. Making ice. No. 959,697; May 31; Sp. p. 7070; Gaz. vol. 154; p. 1200.
Beals, Frank H., Worcester, assignor to The United States Sealing Company, Springfield, Mass. Sealing device for newspapers and the like. No. 965,362; July 26; Sp. p. 5108; Gaz. vol. 156; p. 876.
Beam, Frank E., Toledo, Ohio. Mechanism for attaching valve-strips to bags. No. 948,439; Feb. 8; Sp. p. 1383; Gaz. vol. 151; p. 247.
Beam, Frank E., Toledo, Ohio. Means for attaching valve-strips to bags. No. 952,782; Mar. 22; Sp. p. 4760; Gaz. vol. 152; p. 857.
Beam, Jacob B., Punxsutawney, Pa. Valve. No. 953,940; Apr. 5; Sp. p. 508; Gaz. vol. 153; p. 92.
Beam, William H., Purcell, Okla. Road-grader. No. 953,406; Mar. 29; Sp. p. 6092; Gaz. vol. 152; p. 1094.
Beam, William H., Purcell, Okla. Hoisting apparatus. No. 974,737; Nov. 1; Sp. p. 1485; Gaz. vol. 160; p. 229.
Beam, William H., Purcell, Okla. Portable extension-ladder. No. 974,738; Nov. 1; Sp. p. 1486; Gaz. vol. 160; p. 229.
Beaman, Arthur W. (See Stockbridge, Radford, assignor.)
Beaman & Smith Company. (See Smith, George H., assignor.)
Bean, Charles L., assignor to J. C. Diefenbach, Cincinnati, Ohio. Gas-burner. No. 955,308; Apr. 19; Sp. p. 3479; Gaz. vol. 153; p. 617.
Bean, Charles L., assignor of one-half to F. C. Kline, Toledo, Ohio. Threshing-machine. No. 971,239; Sept. 27; Sp. p. 4480; Gaz. vol. 158; p. 784.
Bean, Edwin E., Warner, N. H. Shoe-sewing machine. No. 956,469; Apr. 26; Sp. p. 6029; Gaz. vol. 153; p. 1046.
Bean, Harry L. (See Lerner and Bean.)
Bean, Joseph A., assignor of one-third to L. Durfee, Mahwah, N. J. Ironing-board. No. 957,537; May 10; Sp. p. 2225; Gaz. vol. 154; p. 385.
Bean, Joseph H. (See Nelson and Bean.)
Bean, Michael J., Woodhaven, N. Y. Piano-shield. No. 947,784; Feb. 1; Sp. p. 15; Gaz. vol. 151; p. 5.
Bear, Carlton J., Monticello, Ill. Animal-shelter. No. 970,873; Sept. 20; Sp. p. 3716; Gaz. vol. 158; p. 635.
Bear, Charles H., *et al.* (See Broomell, Thomas W., assignor.)
Beard, Charles, *et al.* (See Nobis, Curtis A., assignor.)
Beard, Daniel S., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Driving-clutch. No. 954,774; Apr. 12; Sp. p. 2343; Gaz. vol. 153; p. 404.
Beard, Daniel S., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Hay-press. No. 957,538; May 10; Sp. p. 2227; Gaz. vol. 154; p. 385.
Beard, Edward A., Rockville, Md. Inking attachment for type-writers. No. 970,295; Sept. 13; Sp. p. 2467; Gaz. vol. 158; p. 416.
Beard, George M., Lagrange, Ind. Auto-tire-protector jack. No. 975,600; Nov. 15; Sp. p. 3384; Gaz. vol. 160; p. 575.
Beard, Horace F. (See Morriss and Beard.)
Beard, James, Veterans Home, Cal. Aerial machine. No. 950,427; Feb. 22; Sp. p. 5582; Gaz. vol. 151; p. 978.
Beard, Lewis J., Verna, Miss. Swingletree-hook. No. 960,784; June 7; Sp. p. 1103; Gaz. vol. 155; p. 185.
Beard, Murry, *et al.* (See Paar, Henry, assignor.)
Beard, Oser B., Raphine, Va. Fertilizer-distributer. No. 963,267; July 5; Sp. p. 612; Gaz. vol. 156; p. 85.
Beardsley, Andrew H. (See Beardsley, Boyd T., assignor.)
Beardsley, Boyd T., Lakewood, Ohio, assignor of one-half to A. H. Beardsley, Elkhart, Ind. Water-closet valve. No. 966,407; Aug. 2; Sp. p. 1162; Gaz. vol. 157; p. 188.
Beardsley, Harber C., Lakewood, Ohio. Physician's tablet-holder. No. 977,583; Dec. 6; Sp. p. 391; Gaz. vol. 161; p. 56.
Bearman, Martin, New York, N. Y. Convertible cane-umbrella. No. 979,122; Dec. 20; Sp. p. 3715; Gaz. vol. 161; p. 643.
Beasley, Green O., Winona, La. Wheel-guard and track-cleaner for sawmill-carriages. No. 958,689; May 17; Sp. p. 4928; Gaz. vol. 154; p. 809.
Beasley, Green O., Winona, La. Sewing-machine attachment. No. 962,731; June 28; Sp. p. 5274; Gaz. vol. 155; p. 920.
Beasley, John W., Modesto, Cal. Grader. No. 950,272; Feb. 22; Sp. p. 5296; Gaz. vol. 151; p. 928.
Beasley, John W., Modesto, Cal. Grader. No. 968,915; Aug. 30; Sp. p. 6566; Gaz. vol. 157; p. 1143.
Beaton, Allan J., assignor to The Beaton & Bradley Company, New Britain, Conn. Radiator foot-rail. No. 956,029; Apr. 26; Sp. p. 5061; Gaz. vol. 153; p. 894.
Beaton & Bradley Company, The. (See Beaton, Allan J., assignor.)
Beaton, Daniel B., Cottonwood, British Columbia, Canada. Miner's candlestick. No. 965,500; July 26; Sp. p. 5395; Gaz. vol. 156; p. 923.
Beattie, Francis, Leete Island, Conn. Tester for electric blasting-fuses. No. 956,877; May 3; Sp. p. 818; Gaz. vol. 154; p. 131.
Beattie Machine Works. (See Maitland, John, assignor.)
Beattie Manufacturing Company of Cohoes, The. (See Beattie, Walter J., assignor.)
Beattie Manufacturing Company of Cohoes, The. (See Smith, George W., assignor.)
Beattie, Walter J., Cohoes, N. Y., assignor, by mesne assignments, to The Beattie Manufacturing Company of Cohoes. Folding-machine. No. 972,320; Oct. 11; Sp. p. 1748; Gaz. vol. 159; p. 307.
Beattie, Walter J., Cohoes, N. Y., assignor, by mesne assignments, to The Beattie Manufacturing Company of Cohoes. Folding-machine. No. 972,495; Oct. 11; Sp. p. 2119; Gaz. vol. 159; p. 369.
Beattie, William J., E. W. Boynton, and E. B. Churchill, Fitchburg, Mass. Track-sander. No. 950,889; Mar. 1; Sp. p. 899; Gaz. vol. 152; p. 144.
Beattie, William J., E. W. Boynton, and E. B. Churchill, Fitchburg, Mass. Track-sander. No. 967,309; Aug. 16; Sp. p. 3154; Gaz. vol. 157; p. 546.
Beatty, Luther C. (See Edgar, George B., Sr., assignor.)
Beaty, Arthur, Azusa, Cal. Penholder. No. 957,835; May 10; Sp. p. 2821; Gaz. vol. 154; p. 484
Beauchamp, Samuel, Terre Haute, Ind. Eyeglass or spectacle lens clamp. No. 963,851; July 12; Sp. p. 1848; Gaz. vol. 156; p. 304.
Beaucourt, Hugues, Lyon, France. Device for sounding motor-car horns. No. 973,845; Oct. 25; Sp. p. 5104; Gaz. vol. 159; p. 886.
Beaudette, Telesphore J., Los Angeles, Cal. Pump-governor. No. 960,249; June 7; Sp. p. 11; Gaz. vol. 155; p. 5.
Beaudoin, Pierre. (See Paul, Francis, Jr., assignor.)
Beaudry, Alexander, East Weymouth, assignor to Beaudry & Co., Inc., Boston, Mass. Power-hammer. No. 960,785; June 7; Sp. p. 1104; Gaz. vol. 155; p. 185.
Beaudry & Co. (See Beaudry, Alexander, assignor.)
Beaudry, J. S. (See Kessler, Louis, assignor.)
Beaulieau, Louis P. (See Bonin and Beaulieau.)
Beaumont, Edgar. (See Strommerson, Soffus, assignor.)
Beaumont, George, assignor of one-half to R. Glendining, Dunedin, New Zealand. Pattern mechanism for weaving. No. 956,510; May 3; Sp. p. 9; Gaz. vol. 154; p. 4.
Beaupre, John P., and A. Heimbach, Anaconda, Mont. Amalgamator. No. 967,158; Aug. 16; Sp. p. 2861; Gaz. vol. 157; p. 495.
Beaurain, Henri J. (See Delbrouck, Georges, assignor.)
Beaven, John A. (See Cavileer, William N., assignor.)
Beaver, Isaac K., assignor of one-half to E. E. Straub, Wilburton, Pa. Latch for end-gates of mining-cars. No. 958,075; May 17; Sp. p. 3563; Gaz. vol. 154; p. 600.
Beaver, Isaac K., assignor of one-half to E. E. Straub, Wilburton, Pa. Nozzle. No. 971,516; Oct. 4; Sp. p. 11; Gaz. vol. 159; p. 4.
Beaver, Raymond S., Glenwood, Ind. Swivel-snap. No. 947,539; Jan. 25; Sp. p. 5669; Gaz. vol. 150; p. 942.
Beaver, Walter P., Statesville, N. C. Excavator. No. 952,974; Mar. 22; Sp. p. 5134; Gaz. vol. 152; p. 922.
Beavo, Joseph M., assignor, by mesne assignments, to Premo Specialty Manufacturing Company, Los Angeles, Cal. Delivery-machine. No. 976,978; Nov. 29; Sp. p. 6420; Gaz. vol. 160; p. 1096.
Beazley, Joseph O., assignor to The Brush Mop Wringer Manufacturing Company, Baltimore, Md. Combined mop and scrubbing-brush. No. 977,064; Nov. 29; Sp. p. 6590; Gaz. vol. 160; p. 1125.
Bebb, John F., Nevada, Iowa. Extension-shelf for writing-tables. No. 974,340; Nov. 1; Sp. p. 600; Gaz. vol. 160; p. 90.
Bebbington, John, Runcorn, assignor of one-half to T. T. Mathieson, Tattenhall, near Chester, England. Apparatus for filtering, washing, and drying. No. 949,724; Feb. 15; Sp. p. 4036; Gaz. vol. 151; p. 701.
Beber, Wences. (See McLaughlin and Beber.)
Bebié, Ernst, La Farga, San Quirico de Besora, Spain. Spinning and doubling machine. No. 951,932; Mar. 15; Sp. p. 2999; Gaz. vol. 152; p. 543.

Alphabetical list of patentees—Continued.

Bebler, William P., assignor to E. M. Hull, Philadelphia, Pa. Bottle. No. 955,309; Apr. 19; Sp. p. 3480; Gaz. vol. 153; p. 618.
Bebout, Anna, St. Louis, Mo. Telephone-mouthpiece. No. 957,404; May 10; Sp. p. 1961; Gaz. vol. 154; p. 339.
Bechdolt, James O., Portland, Ind. Hog-holder. No. 959,422; May 24; Sp. p. 6463; Gaz. vol. 154; p. 1082.
Becher, Otto, Copiague, assignor to American Metal Cap Company, New York, N. Y. Can-closure. No. 975,317; Nov. 8; Sp. p. 2798; Gaz. vol. 160; p. 452.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Stereotype-casting box. No. 945,678; Jan. 4; Sp. p. 1433; Gaz. vol. 150; p. 224.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Rotary press, (double line.) (Reissue.) No. 13,129; July 12; Sp. p. 3112; Gaz. vol. 156; p. 511.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Printing-press. No. 969,514; Sept. 6; Sp. p. 767; Gaz. vol. 158; p. 121.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Single-plate rotary printing-press. No. 979,919; Dec. 27; Sp. p. 5416; Gaz. vol. 161; p. 936.
Bechoff, Ferdinand Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling mechanism. No. 974,112; Nov. 1; Sp. p. 13; Gaz. vol. 160; p. 5.
Beck, Albert C., Philadelphia, Pa. Clamp for holding forms or stretchers for hosiery. No. 955,627; Apr. 19; Sp. p. 4171; Gaz. vol. 153; p. 726.
Beck, Andrew F., Milwaukee, Wis. Calk-welding attachment for anvils. No. 956,927; May 3; Sp. p. 927; Gaz. vol. 154; p. 147.
Beck, Charles W., assignor to Electrolite Gas Lamp Company, New York, N. Y. Acetylene-generator. No. 971,346; Sept. 27; Sp. p. 4676; Gaz. vol. 158; p. 818.
Beck, Charles W., assignor, by mesne assignments, to Electrolite Gas Lamp Company, New York, N. Y. Acetylene-generator. No. 978,266; Dec. 13; Sp. p. 1845; Gaz. vol. 161; p. 323.
Beck, Einar J., and A. Kehlstrom, Racine, Wis. Screen attachment for window-sash. No. 975,496; Nov. 15; Sp. p. 3158; Gaz. vol. 160; p. 539.
Beck, Ernest L., assignor, by mesne assignments, to The Dodge and Dent Mfg. Co., Inc., New York, N. Y. Bottle-stopper. No. 973,616; Oct. 25; Sp. p. 4628; Gaz. vol. 159; p. 805.
Beck Flaming Lamp Company. (See Beck, Heinrich, assignor.)
Beck Flaming Lamp Company, The. (See Hallberg, Josef H., assignor.)
Beck, Frank P., Richmond, Va. Duplex reproducer for phonographs. No. 950,428; Feb. 22; Sp. p. 5584; Gaz. vol. 151; p. 979.
Beck, Frédéric, Neuilly, France. Rotary explosion-motor. No. 977,260; Nov. 29; Sp. p. 7022; Gaz. vol. 160; p. 1194.
Beck, H. A. (See Martin, Elisha E. A., assignor.)
Beck, Harold M. (See Ambruster and Beck.)
Beck, Harry J., Philipsburg, Pa. Choke-coil. No. 965,062; July 19; Sp. p. 4477; Gaz. vol. 156; p. 745.
Beck, Heinrich, Frankfort-on-the-Main, Germany, assignor to Beck Flaming Lamp Company, Canton, N. Y. Electric-arc lamp. No. 959,045; May 24; Sp. p. 5707; Gaz. vol. 154; p. 958.
Beck, Heinrich, Frankfort-on-the-Main, Germany, assignor to Beck Flaming Lamp Company, Canton, N. Y. Electric-arc lamp. No. 962,732; June 28; Sp. p. 5275; Gaz. vol. 155; p. 920.
Beck, John F., assignor of one-half to H. Vanderveen, Grand Rapids, Mich. Locomotive. No. 966,884; Aug. 9; Sp. p. 2282; Gaz. vol. 157; p. 374.
Beck, Joseph W., assignor of one-half to J. C. Metzger, Cincinnati, Ohio. Cooling-tower. No. 969,743; Sept. 6; Sp. p. 1270; Gaz. vol. 158; p. 203.
Beck, Martin, *et al.* (See Bailey, Seth G., assignor.)
Beck, Oliver N. (See Quigley and Beck.)
Beck, William, St. Paul, Minn. Shoe. No. 956,271; Apr. 26; Sp. p. 5611; Gaz. vol. 153; p. 979.
Beck, William F., Waltham, Minn. Rail tie and fastening. No. 954,248; Apr. 5; Sp. p. 1176; Gaz. vol. 153; p. 196.
Becker, Alvin, Belleville, Ill. Molder's flask. No. 952,722; Mar. 22; Sp. p. 4623; Gaz. vol. 152; p. 838.
Becker, Anton, Columbus, Ohio. Drop-bottom car. No. 976,538; Nov. 22; Sp. p. 5440; Gaz. vol. 160; p. 919.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 951,933; Mar. 15; Sp. p. 3002; Gaz. vol. 152; p. 544.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Gondola car. No. 952,026; Mar. 15; Sp. p. 3187; Gaz. vol. 152; p. 573.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 952,027; Mar. 15; Sp. p. 3189; Gaz. vol. 152; p. 573.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 952,028; Mar. 15; Sp. p. 3190; Gaz. vol. 152; p. 574.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 952,062; Mar. 15; Sp. p. 3249; Gaz. vol. 152; p. 585.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Car-underframe. No. 953,582; Mar. 29; Sp. p. 6470; Gaz. vol. 152; p. 1156.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Car-underframe. No. 956,841; May 3; Sp. p. 742; Gaz. vol. 154; p. 117.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Underframe for railway-cars. No. 976,426; Nov. 22; Sp. p. 5191; Gaz. vol. 160; p. 882.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Friction draft-gear for railway-cars. No. 976,427; Nov. 22; Sp. p. 5192; Gaz. vol. 160; p. 882.
Becker, Anton, assignor to J. S. Ralston, Chicago, Ill. Metallic car construction. No. 974,341; Nov. 1; Sp. p. 602; Gaz. vol. 160; p. 90.
Becker, Arnold, Santa Barbara, Cal. Differential axle device. No. 966,073; Aug. 2; Sp. p. 496; Gaz. vol. 157; p. 80.
Becker, Charles, *et al.* (See Gant, Kenneth W., assignor.)
Becker, Charles W., Evanston, Ill. Potato-harvester. No. 956,272; Apr. 26; Sp. p. 5612; Gaz. vol. 153; p. 979.
Becker, Clarence E., assignor to The Auto Bi Company, Buffalo, N. Y. Saddle-support for motor-cycles, &c. No. 970,458; Sept. 20; Sp. p. 2789; Gaz. vol. 158; p. 490.
Becker, Dedrick G., Minneapolis, Minn. Machine for cleaning dust-collector tubes. No. 966,420; Aug. 9; Sp. p. 1196; Gaz. vol. 157; p. 218.
Becker, Emil. (See Ungerer and Becker.)
Becker, Emilius C. F., Milledgeville, Ga. Buggy-top attachment. No. 968,527; Aug. 30; Sp. p. 5732; Gaz. vol. 157; p. 1010.
Becker, Ernest W., Cleveland, Ohio. Attachment for bottles. No. 945,679; Jan. 4; Sp. p. 1437; Gaz. vol. 150; p. 224.
Becker, Frederick, and J. E. Poggensee, Chicago, Ill. Automatic fish-catching device. No. 975,822; Nov. 15; Sp. p. 3851; Gaz. vol. 160; p. 649.
Becker, Friederich W., New Athens, Ill. Lap-joint T-iron rail. No. 968,314; Aug. 23; Sp. p. 5290; Gaz. vol. 157; p. 912.
Becker, Grover C. (See Becker, John H. and G. C.)
Becker, Hermann, Munich, Germany. View-card. No. 953,508; Mar. 29; Sp. p. 6309; Gaz. vol. 152; p. 1131.
Becker, Jacob F., assignor to U. S. Gas Machine Co., Muskegon, Mich. Automatic carbureting-machine. No. 949,140; Feb. 15; Sp. p. 2868; Gaz. vol. 151; p. 507.
Becker, John, Canal Dover, Ohio. Driving mechanism. No. 976,622; Nov. 22; Sp. p. 5606; Gaz. vol. 160; p. 948.
Becker, John H., Marietta, Ohio. Water-closet seat. No. 965,063; July 19; Sp. p. 4478; Gaz. vol. 156; p. 745.
Becker, John H., Mansfield, and G. C. Becker, Crestline, Ohio. Reciprocating valve. No. 960,786; June 7; Sp. p. 1108; Gaz. vol. 155; p. 185.
Becker, Joseph, Washington, D. C. Photographic-plate holder. No. 975,498; Nov. 15; Sp. p. 3163; Gaz. vol. 160; p. 539.
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Camera-shutter-operating mechanism. No. 975,497; Nov. 15; Sp. p. 3160; Gaz. vol. 160; p. 539.
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, New York, N. Y. Camera-shutter-operating mechanism. No. 975,601; Nov. 15; Sp. p. 3386; Gaz. vol. 160; p. 575.
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Attachment for operating camera-shutters. No. 975,602; Nov. 15; Sp. p. 3388; Gaz. vol. 160; p. 576.
Becker, Joseph A., *et al.* (See Robinson, Charles E., assignor.)
Becker, Joseph E., Foreman, Ark. Plow. No. 951,792; Mar. 15; Sp. p. 2715; Gaz. vol. 152; p. 496.
Becker, Louis, Bath, S. D. Automatic mail-delivering apparatus. No. 950,590; Mar. 1; Sp. p. 262; Gaz. vol. 152; p. 43.
Becker, Louis A., Chicago, Ill. Dispensing mechanism for syrups. No. 963,268; July 5; Sp. p. 614; Gaz. vol. 156; p. 86.
Becker, Louis A., assignor to L. A. Becker Company, Chicago, Ill. Receptacle for dispensing crushed fruit, syrups, or the like. No. 952,409; Mar. 15; Sp. p. 3918; Gaz. vol. 152; p. 701.
Becker, Louis A., assignor to L. A. Becker Company, Chicago, Ill. Swinging corner-bracket for show-cases. No. 960,483; June 7; Sp. p. 486; Gaz. vol. 155; p. 81.
Becker, Ludwig F., Brooklyn, N. Y. Crane for clothes-line pulleys. No. 958,215; May 17; Sp. p. 3839; Gaz. vol. 154; p. 649.
Becker, Otto R., Montrose, Colo. Hay-derrick. No. 979,057; Dec. 20; Sp. p. 3537; Gaz. vol. 161; p. 619.
Becker, Philip A., New York, N. Y. Knockdown case. No. 974,739; Nov. 1; Sp. p. 1488; Gaz. vol. 160; p. 230.
Becker-Seidel Company. (See Seidel, Albin, assignor.)
Becker, Valentine G., St. Paul, Minn. Flue-cleaner. No. 956,668; May 3; Sp. p. 348; Gaz. vol. 154; p. 58.
Becker, William H., and C. W. Steed, St. Louis, Mo. Dispensing device for soda-fountains. No. 965,555; July 26; Sp. p. 5542; Gaz. vol. 156; p. 944.

Alphabetical list of patentees—Continued.

Beckert, John A., Zanesville, Ohio. Window attachment. No. 946,319; Jan. 11; Sp. p. 2882; Gaz. vol. 150; p. 478.
Beckert, William, Allegheny, Pa. Combined jack and truck. No. 968,315; Aug. 23; Sp. p. 5291; Gaz. vol. 157; p. 912.
Beckert, William, Allegheny, Pa. Combined jack and truck. No. 968,316; Aug. 23; Sp. p. 5292; Gaz. vol. 157; p. 912.
Becket, Frederick M., Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Reducing ores. No. 967,159; Aug. 16; Sp. p. 2865; Gaz. vol. 157; p. 496.
Becket, Frederick M., Niagara Falls, assignor to Electro Metallurgical Company, New York, N. Y. Preparing pigments. No. 976,337; Nov. 22; Sp. p. 5000; Gaz. vol. 160; p. 849.
Beckett, James A., and G. W. Willis; said Beckett assignor to Walter A. Wood Mowing and Reaping Machine Co., Hoosick Falls, N. Y. Reel-adjusting mechanism for mowing-machines. No. 972,321; Oct. 11; Sp. p. 1752; Gaz. vol. 159; p. 308.
Beckham, William R. (See Kitts, William C., assignor.)
Beckley, Joseph C., Dayton, Ohio. Garbage-tank. No. 968,828; Aug. 30; Sp. p. 6383; Gaz. vol. 157; p. 1113.
Beckman, Adolph G., assignor to Economy Gas Regulator Company, Baltimore, Md. Fluid-pressure regulator. No. 954,072; Apr. 5; Sp. p. 784; Gaz. vol. 153; p. 136.
Beckman, Bernard C. (See Hayes, Harley H., assignor.)
Beckman, John P. W., Parnassus, Pa. Utilizing steel-scrap. No. 947,031; Jan. 18; Sp. p. 4518; Gaz. vol. 150; p. 744.
Beckman, John W., Niagara Falls, Ontario, Canada. Producing metal salts and metals. No. 973,336; Oct. 18; Sp. p. 4023; Gaz. vol. 159; p. 688.
Beckmann, Carl, New York, N. Y. Gas-engine. No. 960,063; May 31; Sp. p. 7909; Gaz. vol. 154; p. 1328.
Beckmann, Edmund C., St. Louis, Mo. Blacksmith's apron. No. 952,179; Mar. 15; Sp. p. 3461; Gaz. vol. 152; p. 623.
Beckmann, Franz, Warsaw, Russia. Size-powder. No. 976,116; Nov. 15; Sp. p. 4432; Gaz. vol. 160; p. 751.
Beckmann, Karl, Schwerin, Germany. Manure-drill. No. 975,111; Nov. 8; Sp. p. 2348; Gaz. vol. 160; p. 382.
Beckwith, Charles F., Stafford Springs, Conn. Hand-card. No. 976,141; Nov. 22; Sp. p. 4510; Gaz. vol. 160; p. 782.
Beckwith, Grove R., and J. W. Bacon, assignors to Self Equalizer Bed Company, Minneapolis, Minn. Couch and bed spring equalizer. No. 978,105; Dec. 6; Sp. p. 1467; Gaz. vol. 161; p. 237.
Becraft, Francis F., Utica, N. Y. Means for clamping reels on fishing-rods. No. 953,775; Apr. 5; Sp. p. 184; Gaz. vol. 153; p. 34.
Becton, Edwin J., *et al.* (See Ashford, Thomas B., assignor.)
Bedard, Alexander A., Detroit, Mich. Soldering-tool. No. 957,180; May 10; Sp. p. 1465; Gaz. vol. 154; p. 261.
Bedard, Joseph, *et al.* (See Shampou and Donahue, assignors.)
Beddoes, Hubert. (See Priestman and Beddoes.)
Bede, William H., *et al.* (See Carpenter, Alexander, assignor.)
Bedell, Carl E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical controller. No. 969,515; Sept. 6; Sp. p. 771; Gaz. vol. 158; p. 121.
Bedell, Charles A. (See Foster, Samuel P., assignor.)
Bedell, Charles A. (See McCarson and Bedell.)
Bedell, Charles H., Quincy, Mass. Binocular periscope. No. 954,160; Apr. 5; Sp. p. 988; Gaz. vol. 153; p. 167.
Bedell, Richard M., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Matrix for line-casting machines. No. 958,076; May 17; Sp. p. 3564; Gaz. vol. 154; p. 601.
Bedford, Arthur J., Melbourne, Victoria, Australia. Lighting and extinguishing device for street-lamps. No. 966,379; Aug. 2; Sp. p. 1104; Gaz. vol. 157; p. 178.
Bedford, Fred, assignor of one-half to C. E. Williams, Sleaford, England. Reduction of organic substances. No. 949,954; Feb. 22; Sp. p. 4576; Gaz. vol. 151; p. 818.
Bedient, Emory A. (See Davis and Bedient.)
Bedinger, Benjamin F. (See Harvey, Luther P., assignor.)
Bedinger, Everett W., Jr., Anchorage, Ky. Shock-absorber for carriage-bows. No. 953,190; Mar. 29; Sp. p. 5625; Gaz. vol. 152; p. 1022.
Bedker, George L., North Yakima, Wash. Apple-grading machine. No. 977,365; Nov. 29; Sp. p. 7247; Gaz. vol. 160; p. 1230.
Bedotto, James, Paterson, N. J. Ironing-table and the like. No. 965,856; Aug. 2; Sp. p. 18; Gaz. vol. 157; p. 6.
Bee, Francis X., Philadelphia, Pa. Automatic telephone pay-station. No. 945,438; Jan. 4; Sp. p. 930; Gaz. vol. 150; p. 145.
Bee, Francis X., Philadelphia, Pa. Telephone pay-station. No. 950,220; Feb. 22; Sp. p. 5185; Gaz. vol. 151; p. 910.
Beebe, Charles S., assignor to L. J. Elliott, Racine, Wis. Antiskid-tire and stud therefor. No. 967,707; Aug. 16; Sp. p. 3967; Gaz. vol. 157; p. 681.
Beebe, Eugene W., Milwaukee, Wis. Spectacles. No. 945,078; Jan. 4; Sp. p. 149; Gaz. vol. 150; p. 25.
Beebe, Horace W., New Haven, Conn. Vehicle-lamp. No. 969,445; Sept. 6; Sp. p. 619; Gaz. vol. 158; p. 99.
Beebe, Winfield S., New Haven, Conn. Pencil-sharpener. No. 946,098; Jan. 11; Sp. p. 2402; Gaz. vol. 150; p. 399.
Beech, Jacob, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil-former. No. 946,531; Jan. 18; Sp. p. 3434; Gaz. vol. 150; p. 577.
Beech-Nut Packing Company *et al.* (See Honiss, William H., assignor.)
Beech, William E., Ferris, Tex. Fluid-pressure regulator. No. 965,064; July 19; Sp. p. 4480; Gaz. vol. 156; p. 745.
Beechel, Phillip, Fairfax, S. D. Protector for cream-separators. No. 963,500; July 5; Sp. p. 1074; Gaz. vol. 156; p. 164.
Beechlyn, John T., Lynn, Mass., assignor to General Electric Company. Ball-clutch for arc-lamps. No. 948,293; Feb. 1; Sp. p. 1066; Gaz. vol. 151; p. 172.
Beede, Walter E., New York, N. Y., assignor to American Ever Ready Company. Portable electrical measuring instrument. No. 966,421; Aug. 9; Sp. p. 1198; Gaz. vol. 157; p. 218.
Beegen, Georg R., Detroit, Mich. Stovepipe-clamp. No. 973,466; Oct. 25; Sp. p. 4304; Gaz. vol. 159; p. 755.
Beehler, Charles W., St. Louis, Mo. Semicoking coal-dust, coal-slack, and the like. No. 955,310; Apr. 19; Sp. p. 3482; Gaz. vol. 153; p. 618.
Beehler, Charles W., St. Louis, Mo. Box-fastener. No. 976,025; Nov. 15; Sp. p. 4243; Gaz. vol. 160; p. 720.
Beehler, Charles W., St. Louis, Mo. Box-fastener. No. 976,026; Nov. 15; Sp. p. 4244; Gaz. vol. 160; p. 720.
Beehler, Charles W., St. Louis, Mo. Box-fastener. No. 976,027; Nov. 15; Sp. p. 4246; Gaz. vol. 160; p. 720.
Beehler, James F., St. Louis, Mo. Box-lock. No. 968,024; Aug. 23; Sp. p. 4645; Gaz. vol. 157; p. 811.
Beehler, William, assignor to Owosso Manufacturing Company, Owosso, Mich. Crate. No. 960,484; June 7; Sp. p. 488; Gaz. vol. 155; p. 82.
Beehler, William H., assignor to William Beehler, Incorporated, Baltimore, Md. Box for umbrellas, canes, &c. No. 963,351; July 5; Sp. p. 777; Gaz. vol. 156; p. 114.
Beekman, John V., Plainfield, N. J., assignor to Lidgerwood Manufacturing Company. Friction-drum. No. 976,841; Nov. 29; Sp. p. 6073; Gaz. vol. 160; p. 1047.
Beeler, Abraham T., Kansas City, Mo., assignor of one-half to I. W. Beeler, Kansas City, Kans. Floor-scraper. No. 960,787; June 7; Sp. p. 1109; Gaz. vol. 155; p. 185.
Beeler, Isaac W. (See Beeler, Abraham T., assignor.)
Beelman, Alexander J., Jr., Westwego, La. Endless water-power paddle-motor. No. 953,455; Mar. 29; Sp. p. 6194; Gaz. vol. 152; p. 1110.
Beelman, Samuel E., Somonauk, Ill. Washing-machine. No. 979,733; Dec. 27; Sp. p. 5007; Gaz. vol. 161; p. 874.
Beeman, Clarence E., Minneapolis, assignor to The Hygienic Refiner Company, Princeton, Minn. Gas-generator. No. 947,323; Jan. 25; Sp. p. 5151; Gaz. vol. 150; p. 869.
Beeman, Edwin R. (See Rieske, Brennan, Phelps, and Beeman.)
Beeman, Edwin R., Minneapolis, Minn., assignor to Monitor Drill Company. Scraper for disk openers. No. 975,499; Nov. 15; Sp. p. 3168; Gaz. vol. 160; p. 540.
Beeman, Elmer E., Pittsburg, Pa. Rail-joint. No. 968,317; Aug. 23; Sp. p. 5293; Gaz. vol. 157; p. 913.
Beenken, John N., Philadelphia, Pa. Nose feeding-bag. No. 960,250; June 7; Sp. p. 14; Gaz. vol. 155; p. 5.
Beenken, John N., Philadelphia, Pa. Sweat-band for hats. No. 960,251; June 7; Sp. p. 16; Gaz. vol. 155; p. 6.
Beer, Gottlieb, Hanover, Germany. Convertible ring and hook. No. 959,836; May 31; Sp. p. 7373; Gaz. vol. 154; p. 1248.
Beers, Charles F., Newark, N. J. Lock-washer. No. 961,204; June 14; Sp. p. 1951; Gaz. vol. 155; p. 353.
Beers, Harry F., and H. C. Bumpus, New York, N. Y. Antidrip device for fire-hose. No. 956,562; May 3; Sp. p. 115; Gaz. vol. 154; p. 21.
Beery, Kemper S., Pittsburg, Pa. Nut-adjusting machine. No. 945,680; Jan. 4; Sp. p. 1438; Gaz. vol. 150; p. 224.
Beeson, El, Bentonville, Ind. Knife-grinding attachment for threshing-machines. No. 964,839; July 19; Sp. p. 4027; Gaz. vol. 156; p. 670.
Beeson, Samuel W., Buffalo, N. Y. Draw-bar. No. 945,079; Jan. 4; Sp. p. 151; Gaz. vol. 150; p. 25.
Beevers, Frederick. (See Jeans and Beevers.)
Beezley, Dolphyfus A., Kansas City, Kans., assignor of one-third to F. H. Farris, St. Louis, Mo. Safety locking-switch. No. 955,311; Apr. 19; Sp. p. 3485; Gaz. vol. 153; p. 619.
Beffel, Leonard, Jackson, Mich. Sleigh-runner for wheeled vehicles. No. 970,874; Sept. 20; Sp. p. 3717; Gaz. vol. 158; p. 635.
Begg, Colin E., Mosman, Sydney, New South Wales, Australia. Wire-netting-weaving machine. No. 957,643; May 10; Sp. p. 2426; Gaz. vol. 154; p. 420.
Beggs, Thomas R., assignor to The Thomas R. Beggs Faucet and Valve Company, Englewood, N. J. Valve. No. 972,430; Oct. 11; Sp. p. 1976; Gaz. vol. 159; p. 347.
Beggs, Thomas R., assignor to The Thomas R. Beggs Faucet and Valve Company, Englewood, N. J. Valve or faucet. No. 972,431; Oct. 11; Sp. p. 1978; Gaz. vol. 159; p. 347.

Alphabetical list of patentees—Continued.

Beghtol, Charles A., Canon City, Colo. Contact-former or line-tapper. No. 964,741; July 19; Sp. p. 3824; Gaz. vol. 156; p. 636.

Begley, Caroline M., Oakford, Pa. Underclothing. No. 959,196; May 24; Sp. p. 6032; Gaz. vol. 154; p. 1008.

Behler, George W., Three Oaks, Mich. Combined match-safe and cigar-cutter. No. 961,066; June 7; Sp. p. 1662; Gaz. vol. 155; p. 278.

Behr, Hans C., Johannesburg, Transvaal. Means for handling and distributing dewatered crushed ore products, &c. No. 956,669; May 3; Sp. p. 349; Gaz. vol. 154; p. 58.

Behre, Charles G., New York, N. Y. Indicating-annunciator. No. 950,740; Mar. 1; Sp. p. 603; Gaz. vol. 152; p. 95.

Behrend, Bernard A., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company and Allis-Chalmers Company. Dynamo-electric machine. No. 964,742; July 19; Sp. p. 3826; Gaz. vol. 156; p. 637.

Behrend, Bernard A., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Coil-support for dynamo-electric machines. No. 971,820; Oct. 4; Sp. p. 643; Gaz. vol. 159; p. 113.

Behrend, Samuel K., Denver, Colo. Apparatus for separating minerals from their ores. No. 973,467; Oct. 25; Sp. p. 4305; Gaz. vol. 159; p. 755.

Behrend, Samuel K., New York, N. Y. Flotation-tank for ore-dressing. No. 979,820; Dec. 27; Sp. p. 5208; Gaz. vol. 161; p. 903.

Behrendt, Eugene, Manila, Philippine Islands. Machine for separating fibers from the pulp and extraneous matter of plants and trees. No. 970,166; Sept. 13; Sp. p. 2179; Gaz. vol. 158; p. 371.

Behrens, Ernst A., Bremen, assignor to Maschinenfabrik Sürth G. m. b. H., Sürth, near Cologne, Germany. Manufacturing carbonic acid. No. 960,788; June 7; Sp. p. 1112; Gaz. vol. 155; p. 186.

Behringer, Edward A., Brooklyn, N. Y. Gas-main stopper. No. 952,499; Mar. 22; Sp. p. 4122; Gaz. vol. 152; p. 759.

Behringer, Emil and H., Brooklyn, N. Y. Radiator. No. 962,189; June 21; Sp. p. 4096; Gaz. vol. 155; p. 711.

Behringer, Herman. (See Behringer, Emil and H.)

Beidelman, William D., Union, Oreg. Harness. No. 969,328; Sept. 6; Sp. p. 373; Gaz. vol. 158; p. 61.

Beidler, Adam W., Chicago, Ill. Building-wall. No. 945,439; Jan. 4; Sp. p. 934; Gaz. vol. 150; p. 146.

Beidler, George C., Oklahoma, Okla. Printing and developing apparatus. No. 951,045; Mar. 1; Sp. p. 1184; Gaz. vol. 152; p. 194.

Beilech, Moses, *et al.* (See Forst, Moritz, assignor.)

Beilman, William E., Buffalo, N. Y. Water-heater. No. 963,415; July 5; Sp. p. 911; Gaz. vol. 156; p. 135.

Bein, Emile J., Newark, N. J. Surfacing-machine. No. 947,491; Jan. 25; Sp. p. 5569; Gaz. vol. 150; p. 925.

Beinert, George D., New York, N. Y. Lighting-fixture. No. 975,823; Nov. 15; Sp. p. 3852; Gaz. vol. 160; p. 650.

Beiriger, Edward C. (See Cassidy, William T., assignor.)

Beirne, John J. (See Greenwood, Percy T., assignor.)

Beiswenger, Henry, Jackson, Mich. Feeding mechanism for cement-mixers. No. 946,817; Jan. 18; Sp. p. 4046; Gaz. vol. 150; p. 671.

Beiter, Frank, *et al.* (See Jump, Walter H., assignor.)

Beiter, John, *et al.* (See Jump, Walter H., assignor.)

Békeñi, Vendel L., Cleveland, Ohio. Armor for automobile-wheels. No. 972,322; Oct. 11; Sp. p. 1754; Gaz. vol. 159; p. 308.

Beland, Edith M., Lebanon, N. H. Sink-cover. No. 966,298; Aug. 2; Sp. p. 957; Gaz. vol. 157; p. 152.

Bélanger, Victor, Boston, Mass., assignor, by mesne assignments, to American Textile Company. Device for spinning and twisting yarn. No. 950,507; Mar. 1; Sp. p. 99; Gaz. vol. 152; p. 16.

Bélanger, Victor, Sea View, Mass., assignor, by mesne assignments, to American Textile Company. Device for spinning and twisting yarn. No. 975,318; Nov. 8; Sp. p. 2801; Gaz. vol. 160; p. 452.

Belart, Hans, Huddersfield, England. Preparation of eugenol and albumin. No. 973,908; Oct. 25; Sp. p. 5240; Gaz. vol. 159; p. 908.

Belcher, Warren J., assignor to Whitney Manufacturing Company, Hartford, Conn. Clip for drive-chains. No. 951,555; Mar. 8; Sp. p. 2223; Gaz. vol. 152; p. 386.

Belcher, Warren J., assignor to The Whitney Manufacturing Company, Hartford, Conn. Drive-chain. No. 953,114; Mar. 29; Sp. p. 5458; Gaz. vol. 152; p. 997.

Belcher, Warren J., assignor to The Whitney Manufacturing Company, Hartford, Conn. Drive-chain construction. No. 958,466; May 17; Sp. p. 4501; Gaz. vol. 154; p. 737.

Belcher, Warren J., assignor to The Whitney Manufacturing Company, Hartford, Conn. Drive-chain and wheel therefor. No. 959,046; May 24; Sp. p. 5708; Gaz. vol. 154; p. 959.

Belcher, Warren J., assignor to The Whitney Manufacturing Company, Hartford, Conn. Drive-chain. No. 959,047; May 24; Sp. p. 5710; Gaz. vol. 154; p. 959.

Beldam, George W., Ealing, England. Pneumatic tire for vehicle-wheels. No. 950,429; Feb. 22; Sp. p. 5586; Gaz. vol. 151; p. 979.

Belden, Charles H., Clifton Springs, N. Y. Air-pump. No. 960,789; June 7; Sp. p. 1114; Gaz. vol. 155; p. 186.

Beldin, Joseph C. (See Booth and Beldin.)

Belding Bros. & Company. (See Schmidt and Jefferson, assignors.)

Beler, Adolf, assignor to Beler Water Heater Co., Pittsburg, Pa. Gas-burner. No. 979,734; Dec. 27; Sp. p. 5008; Gaz. vol. 161; p. 874.

Beler Water Heater Co. (See Beler, Adolf, assignor.)

Beleznay, Ambrosius. (See Tóth, Beleznay, and Liptak.)

Belfi, Constantine, Philadelphia, Pa. Medicine-cabinet. No. 955,312; Apr. 19; Sp. p. 3487; Gaz. vol. 153; p. 619.

Belfield, A. Miller, *et al.*, trustees. (See Davis, Charles L., assignor.)

Belitz, Robert, Cleveland, Wis. Milk-can, top-rim, cover, and lock. No. 956,511; May 3; Sp. p. 11; Gaz. vol. 154; p. 4.

Beliveau, Octave A., St. Paul, Minn. Wire-clip. No. 957,485; May 10; Sp. p. 2111; Gaz. vol. 154; p. 366.

Belknap, Edwin C., and E. H. Jackson, Chicago, Ill. Combined latch and bolt mechanism. No. 976,773; Nov. 22; Sp. p. 5921; Gaz. vol. 160; p. 999.

Belknap, Edwin D., East Orange, N. J. Addressing-machine. No. 976,142; Nov. 22; Sp. p. 4512; Gaz. vol. 160; p. 782.

Belknap, Frank D., New York, N. Y. Card-type-writing machine. No. 960,252; June 7; Sp. p. 17; Gaz. vol. 155; p. 6.

Belknap, Henry H., Philadelphia, Pa. Shaving-brush. No. 949,642; Feb. 15; Sp. p. 3884; Gaz. vol. 151; p. 676.

Belknap, William L., Bridgeport, Conn. Draw-off cock for boilers. No. 959,698; May 31; Sp. p. 7073; Gaz. vol. 154; p. 1200.

Bell, Arthur F. L., San Francisco, Cal. Clinometer for well-bores. No. 959,912; May 31; Sp. p. 7542; Gaz. vol. 154; p. 1274.

Bell, Benjamin, Philadelphia, Pa. Pneumatic spring. No. 971,583; Oct. 4; Sp. p. 155; Gaz. vol. 159; p. 29.

Bell, Charles D., Fort Worth, Tex. Tire-protector and antiskidding device. No. 966,517; Aug. 9; Sp. p. 1472; Gaz. vol. 157; p. 252.

Bell, Charles R. (See Schmitt and Bell.)

Bell, Charles W., Valparaiso, Ind. Door weather-strip. No. 951,793; Mar. 15; Sp. p. 2716; Gaz. vol. 152; p. 496.

Bell, Charles W., Bartlesville, Okla. Pump for oil and like wells. No. 974,342; Nov. 1; Sp. p. 605; Gaz. vol. 160; p. 90.

Bell, Dillwyn M., Oak Park, assignor to W. J. Anderson and G. F. Lewis, Chicago, Ill. Speedometer. No. 957,727; May 10; Sp. p. 2595; Gaz. vol. 154; p. 449.

Bell, Dillwyn M., Oak Park, assignor to The Bastian-Blessing Company, Chicago, Ill. Speedometer. No. 961,835; June 21; Sp. p. 3306; Gaz. vol. 155; p. 589.

Bell, Edwin H., Chicago, Ill. Metallic railway-tie. No. 945,364; Jan. 4; Sp. p. 783; Gaz. vol. 150; p. 120.

Bell, Edwin H., Chicago, Ill. Tie-plate. No. 948,127; Feb. 1; Sp. p. 715; Gaz. vol. 151; p. 117.

Bell, Elmer, West Middletown, Ohio. Sandpaper-holder. No. 955,575; Apr. 19; Sp. p. 4034; Gaz. vol. 153; p. 708.

Bell, Francis M., Morrillton, Ark. Grappling-hook. No. 973,252; Oct. 18; Sp. p. 3849; Gaz. vol. 159; p. 658.

Bell, Frank B. (See Jacoby and Bell.)

Bell, George A., Norwalk, Conn. Non-skidding device. No. 966,074; Aug. 2; Sp. p. 497; Gaz. vol. 157; p. 80.

Bell, George A., Ypsilanti, Mich. Sign-attaching implement. No. 967,490; Aug. 16; Sp. p. 3546; Gaz. vol. 157; p. 609.

Bell, George H., Slateford, Scotland, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Ironing-machine. No. 965,857; Aug. 2; Sp. p. 20; Gaz. vol. 157; p. 6.

Bell, Harcourt. (See Davies and Bell.)

Bell, Harmon, *et al.* (See Loftus, Thomas J., assignor.)

Bell, Harry J., Leominster, Mass. Card and garment holder. No. 948,840; Feb. 8; Sp. p. 2251; Gaz. vol. 151; p. 382.

Bell, Harry L., Sr., Philadelphia, Pa. Making cut-printing plates. No. 951,521; Mar. 8; Sp. p. 2153; Gaz. vol. 152; p. 374.

Bell, James J., *et al.* (See Brister, William T., assignor.)

Bell, John C., Cleveland, Ohio. Bill. No. 971,106; Sept. 27; Sp. p. 4189; Gaz. vol. 158; p. 739.

Bell, John C., Cleveland, Ohio. Check. No. 971,107; Sept. 27; Sp. p. 4191; Gaz. vol. 158; p. 740.

Bell, John E., Geddes, S. D. Water-motor. No. 961,749; June 21; Sp. p. 3114; Gaz. vol. 155; p. 561.

Bell, John E., Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Superheater. No. 954,913; Apr. 12; Sp. p. 2685; Gaz. vol. 153; p. 454.

Bell, John E., Brooklyn, assignor to The Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. No. 954,914; Apr. 12; Sp. p. 2689; Gaz. vol. 153; p. 454.

Bell, John E., assignor to The Babcock & Wilcox Company, New York, N. Y. Independently-fired superheater. No. 973,743; Oct. 25; Sp. p. 4890; Gaz. vol. 159; p. 850.

Bell, John W., Vancouver, British Columbia, Canada. Wood-surfacing machine. No. 970,875; Sept. 20; Sp. p. 3719; Gaz. vol. 158; p. 636.

Bell, Joseph E., Mesquite, Tex. Self-adjusting umbrella-holder. No. 975,500; Nov. 15; Sp. p. 3169; Gaz. vol. 160; p. 540.

Alphabetical list of patentees—Continued.

Bell, Joseph T., Leola, S. D. Horse-rake. No. 960,253; June 7; Sp. p. 19; Gaz. vol. 155; p. 7.
Bell, Joshua. (See Mills, James W., assignor.)
Bell, Margaret D., Topeka, Kans. Fastening device for chair parts. No. 962,613; June 28; Sp. p. 5027; Gaz. vol. 155; p. 879.
Bell, Thomas, Clydebank, Scotland, assignor to General Electric Company. Turbine-nozzle. No. 974,108; Nov. 1; Sp. p. 2; Gaz. vol. 160; p. 3.
Bell, Thomas V., Outremont, Quebec, Canada. Tooling-machine for bookbinding. No. 979,367; Dec. 20; Sp. p. 4208; Gaz. vol. 161; p. 725.
Bell, Walter. (See Van Alstyne and Bell.)
Bell, Willard J., Newaygo, Mich. Grinding-machine. No. 971,108; Sept. 27; Sp. p. 4193; Gaz. vol. 158; p. 740.
Bell, William G. (See Messer, Jeremiah C., assignor.)
Bellah, Andrew J., Coalinga, Cal. Pocket-guard. No. 949,673; Feb. 15; Sp. p. 3928; Gaz. vol. 151; p. 685.
Bellamy, Alfred R. (See Roberts, Bellamy, and James.)
Bellamy, Henry J., Bridge-of-Weir, Scotland, assignor to W. V. Bowater & Sons, London, England. Hydraulic press. No. 956,752; May 3; Sp. p. 546; Gaz. vol. 154; p. 87.
Bellamy, Ralph, Kansas City, Mo. Hitch-strap. No. 950,470; Mar. 1; Sp. p. 5; Gaz. vol. 152; p. 4.
Bellamy, Robert A., Elk City, Okla. Sewing-machine. No. 951,794; Mar. 15; Sp. p. 2717; Gaz. vol. 152; p. 496.
Belle, James, *et al.* (See Minion, George, assignor.)
Bellemare, Alide. (See Jetté, Bellemare, Jette, and Carignan.)
Belles, Francis M., Shickshinny, Pa. Jar-closure. No. 976,623; Nov. 22; Sp. p. 5608; Gaz. vol. 160; p. 949.
Belles, Reuben O., Pittsburg, Pa. Counterbalanced stairway or ladder. No. 972,595; Oct. 11; Sp. p. 2374; Gaz. vol. 159; p. 405.
Belleville Baler Company. (See Wehrenberg, Charles E., assignor.)
Bellew, Peter F., Bridgeport, Conn. Tire-tool. No. 965,858; Aug. 2; Sp. p. 23; Gaz. vol. 157; p. 6.
Belling, Arthur C., Beaver Dam, Wis. Rope-clamp. No. 968,638; Aug. 30; Sp. p. 5962; Gaz. vol. 157; p. 1050.
Bellinger, James G., assignor of one-half to F. W. Bowler, Cleveland, Ohio. Mechanism for controlling a longitudinally-movable element. No. 951,901; Mar. 15; Sp. p. 2940; Gaz. vol. 152; p. 532.
Bellini, Ettore, and A. Tosi, Paris, France. System of directed reception for wireless-telegraphy stations. No. 945,440; Jan. 4; Sp. p. 935; Gaz. vol. 150; p. 147.
Bellini, Ettore, and A. Tosi, Paris, France. Directed wireless telegraphy. No. 948,086; Feb. 1; Sp. p. 643; Gaz. vol. 151; p. 104.
Bellion, William E. (See Kneip, Anton, assignor.)
Bellis, Albert B., Muskogee, Okla. Water-filter. No. 967,708; Aug. 16; Sp. p. 3969; Gaz. vol. 157; p. 681.
Bellows, Benjamin F., Cleveland, Ohio, and C. Luttropp, Woonsocket, R. I., assignors to Electric Compositor Company, New York, N. Y. Justifying mechanism. No. 974,740; Nov. 1; Sp. p. 1491; Gaz. vol. 160; p. 230.
Bellows, Willis J., assignor of one-half to J. W. Pyles, Walla Walla, Wash. Tray. No. 965,431; July 26; Sp. p. 5252; Gaz. vol. 156; p. 899.
Bellows, Winfield S., Steelton, Pa. Float-controlled valve. No. 970,167; Sept. 13; Sp. p. 2185; Gaz. vol. 158; p. 372.
Belluzzo, Giuseppe, Milan, Italy. Elastic-fluid turbine. No. 961,067; June 7; Sp. p. 1663; Gaz. vol. 155; p. 278.
Bellwood, E. C. (See Thurston, Thomas O., assignor.)
Belmer, Hilton D. (See Gledhill and Belmer.)
Beltermann, Josef, Mannheim, Germany. Abdominal bandage. No. 965,556; July 26; Sp. p. 5546; Gaz. vol. 156; p. 945.
Beltz, John H., assignor of one-half to A. Mohr, St. Paul, Minn. Coupling device. No. 962,733; June 28; Sp. p. 5277; Gaz. vol. 155; p. 921.
Beltzer, André, Bridgeport, Conn. Generating oxygen. No. 968,528; Aug. 30; Sp. p. 5734; Gaz. vol. 157; p. 1010.
Beluze, Claudius. (See Langénieux, Lucien, assignor.)
Belz, Louis C., Philadelphia, Pa. Hair-pin. No. 975,390; Nov. 15; Sp. p. 2956; Gaz. vol. 160; p. 501.
Belzner, Julius, Jr., Mount Vernon, N. Y. Overhead contact system for electric railways. No. 959,197; May 24; Sp. p. 6033; Gaz. vol. 154; p. 1008.
Beman, Herbert D. (See McLaughlin and Beman.)
Bement, Frank, Shrewsbury, Mass. Machine for making chain-cloth. No. 960,485; June 7; Sp. p. 489; Gaz. vol. 155; p. 82.
Bemis, George W., Worcester, Mass. Bellows-valve. No. 945,905; Jan. 11; Sp. p. 2009; Gaz. vol. 150; p. 333.
Bemis, Gilbert C., Lynn, assignor to Worcester Brush & Scraper Company, Worcester, Mass. Block-scraper. No. 954,497; Apr. 12; Sp. p. 1717; Gaz. vol. 153; p. 308.
Bemis, Thomas, assignor to Taisey Pneumatic Service Company, Indianapolis, Ind. Pneumatic-despatch apparatus. No. 975,501; Nov. 15; Sp. p. 3170; Gaz. vol. 160; p. 540.
Bendel, Josef, Kronstadt, Austria-Hungary. Tailpiece for violins, violas, and the like. No. 973,846; Oct. 25; Sp. p. 5105; Gaz. vol. 159; p. 886.
Bendelari, Frederico N., Cleveland, Ohio. Demountable rim for vehicle-wheels. No. 967,599; Aug. 16; Sp. p. 3762; Gaz. vol. 157; p. 646.
Bender, Albert N., Milwaukee, Wis. Knockdown box. No. 956,512; May 3; Sp. p. 13; Gaz. vol. 154; p. 5.
Bender, Albert N., Racine, assignor of one-half to J. C. Kleist, Milwaukee, Wis. Screw-driver. No. 954,073; Apr. 5; Sp. p. 785; Gaz. vol. 153; p. 136.
Bender Car Door Company. (See French, Cyrus O., assignor.)
Bender, Charles A., Harrisburg, Pa. Rotary engine. No. 976,539; Nov. 22; Sp. p. 5442; Gaz. vol. 160; p. 919.
Bender, Charles J. (See Del Valle, Armando, assignor.)
Bender, Eduard, Hagen, Germany. Regenerator. No. 952,723; Mar. 22; Sp. p. 4625; Gaz. vol. 152; p. 838.
Bender, Jacob S., Kansas City, Mo. Combination broom and scraper. No. 950,012; Feb. 22; Sp. p. 4748; Gaz. vol. 151; p. 839.
Bender, Nicholas A., assignor of one-half to T. A. Quinn, Clayton, Mo. Horseshoe attachment. No. 971,109; Sept. 27; Sp. p. 4195; Gaz. vol. 158; p. 740.
Bender, Peter, Slater, Mo. Disk-harrow-sharpening apparatus. No. 958,077; May 17; Sp. p. 3565; Gaz. vol. 154; p. 601.
Bendion, James. (See McCleary, Harry, assignor.)
Benedict, Charles F., Brooklyn, assignor to S. Kanner, New York, N. Y. Razor-stropping device. No. 962,190; June 21; Sp. p. 4099; Gaz. vol. 155; p. 711.
Benedict, George H., Chicago, Ill. Machine for black-leading molds for electrotyping. No. 967,160; Aug. 16; Sp. p. 2866; Gaz. vol. 157; p. 496.
Benedict, George H., Chicago, Ill., assignor to A. R. Koehler, Buffalo, N. Y. Liquid-coating machine. No. 952,093; Mar. 15; Sp. p. 3298; Gaz. vol. 152; p. 594.
Benedict, Harry A., Blaisdell, N. D. Stamp-affixing machine. No. 975,742; Nov. 15; Sp. p. 3696; Gaz. vol. 160; p. 623.
Benedict, Harry J. (See Chelson and Benedict.)
Benedict, Horace G., Hastings, Nebr. Sash-holder. No. 949,695; Feb. 15; Sp. p. 3973; Gaz. vol. 151; p. 692.
Benedict, John W., Hastings, Mich. Keyhole-guard. No. 958,849; May 24; Sp. p. 5306; Gaz. vol. 154; p. 893.
Benét, Laurence V., Paris, France. Feed apparatus for automatic guns. No. 958,078; May 17; Sp. p. 3566; Gaz. vol. 154; p. 601.
Benét, Laurence V., and H. A. Mercié, Paris, France. Support for guns. No. 959,291; May 24; Sp. p. 6219; Gaz. vol. 154; p. 1039.
Bengert, John F., Denver, Colo. Pipe. No. 961,575; June 14; Sp. p. 2760; Gaz. vol. 155; p. 478.
Bengough, James, assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Blank-cutting machine. No. 946,532; Jan. 18; Sp. p. 3435; Gaz. vol. 150; p. 577.
Benham, Edgar M., assignor to The Bankers' Dust Proof Time Lock Company, Cincinnati, Ohio. Time-lock-actuating mechanism. No. 976,028; Nov. 15; Sp. p. 4247; Gaz. vol. 160; p. 720.
Benham, Joseph M., *et al.* (See Huntley, Stephen A., assignor.)
Benham, Joseph M., and G. W. Slater, Oakland, Cal. Vehicle-wheel. No. 964,462; July 12; Sp. p. 3081; Gaz. vol. 156; p. 506.
Benham, Joseph M., and G. W. Slater, Oakland, Cal. Tire. No. 977,584; Dec. 6; Sp. p. 393; Gaz. vol. 161; p. 57.
Benham, William B., Washington, D. C. Letter-box. No. 967,709; Aug. 16; Sp. p. 3971; Gaz. vol. 157; p. 681.
Benicia Iron Works. (See Daly, Charles J., assignor.)
Benincasa, Nicholas, East Pittsburg, Pa. Collar-button. No. 977,925; Dec. 6; Sp. p. 1095; Gaz. vol. 161; p. 174.
Benitez, Carlos F., Guadalajara, Mexico. Fluid-motor. No. 971,517; Oct. 4; Sp. p. 13; Gaz. vol. 159; p. 4.
Benjamin, Abner M., Dayton, Ohio. Boltless locking-body for connecting track-rail sections. No. 960,790; June 7; Sp. p. 1116; Gaz. vol. 155; p. 187.
Benjamin, Alfred, assignor to Benjamin & Johnes, Newark, N. J. Brassière. No. 948,642; Feb. 8; Sp. p. 1832; Gaz. vol. 151; p. 315.
Benjamin, Alfred, assignor to Benjamin & Johnes, Newark, N. J. Corset. No. 953,812; Apr. 5; Sp. p. 264; Gaz. vol. 153; p. 47.
Benjamin, Allison B., Syracuse, N. Y. Regulator. No. 972,496; Oct. 11; Sp. p. 2122; Gaz. vol. 159; p. 369.
Benjamin, Dana H., and J. W. Gilbert, Lebanon, Pa., assignors, by mesne assignments, to S. D. Guggenheim, Cleveland, Ohio. Ironing-machine. No. 967,310; Aug. 16; Sp. p. 3155; Gaz. vol. 157; p. 546.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, George H. (See Finck, William C., assignor.)
Benjamin, George H., New York, N. Y. Regenerative gas-furnace. No. 948,538; Feb. 8; Sp. p. 1592; Gaz. vol. 151; p. 281.
Benjamin, George H., New York, N. Y. Apparatus for vaporizing fluids. No. 953,682; Apr. 5; Sp. p. 8; Gaz. vol. 153; p. 4.
Benjamin, George H., New York, N. Y. Soldering chains. No. 962,413; June 28; Sp. p. 4578; Gaz. vol. 155; p. 810.

Benjamin, George H., New York, N. Y., assignor to H. F. Barrows Co., North Attleboro, Mass. Machine for soldering chains. No. 978,542; Dec. 13; Sp. p. 2423; Gaz. vol. 161; p. 417.

Benjamin, George H., New York, N. Y., assignor to H. F. Barrows Co., North Attleboro, Mass. Machine for soldering chains. No. 978,543; Dec. 13; Sp. p. 2428; Gaz. vol. 161; p. 418.

Benjamin & Johnes. (See Benjamin, Alfred, assignor.)

Benjamin, Joseph A., Rochester, N. Y. Pocket hat and coat hanger. No. 965,151; July 26; Sp. p. 4654; Gaz. vol. 156; p. 806.

Benjamin, Joseph E., Rochester, N. Y. Book-form bill-file. No. 947,051; Jan. 18; Sp. p. 4541; Gaz. vol. 150; p. 749.

Benjamin, Joseph E., Rochester, N. Y. Book-support. No. 949,054; Feb. 15; Sp. p. 2691; Gaz. vol. 151; p. 479.

Benjamin, Reuben B. assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 946,892; Jan. 18; Sp. p. 4235; Gaz. vol. 150; p. 697.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 949,209; Feb. 15; Sp. p. 2991; Gaz. vol. 151; p. 531.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 950,650; Mar. 1; Sp. p. 401; Gaz. vol. 152; p. 65.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lamp-holding device. No. 950,651; Mar. 1; Sp. p. 405; Gaz. vol. 152; p. 65.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 950,652; Mar. 1; Sp. p. 407; Gaz. vol. 152; p. 66.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. No. 950,713; Mar. 1; Sp. p. 548; Gaz. vol. 152; p. 86.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 958,216; May 17; Sp. p. 3840; Gaz. vol. 154; p. 649.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Extension-socket. No. 958,217; May 17; Sp. p. 3842; Gaz. vol. 154; p. 649.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster-lamp-holding device. No. 970,678; Sept. 20; Sp. p. 3294; Gaz. vol. 158; p. 567.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. No. 972,986; Oct. 18; Sp. p. 3261; Gaz. vol. 159; p. 567.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. No. 972,987; Oct. 18; Sp. p. 3264; Gaz. vol. 159; p. 568.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Portable lamp and guard therefor. No. 974,226; Nov. 1; Sp. p. 270; Gaz. vol. 160; p. 46.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Incandescent-lamp socket. No. 974,946; Nov. 8; Sp. p. 1972; Gaz. vol. 160; p. 325.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 974,947; Nov. 8; Sp. p. 1974; Gaz. vol. 160; p. 325.

Benjamin, Robert D., Cumberland, Md. Saw-set. No. 972,497; Oct. 11; Sp. p. 2123; Gaz. vol. 159; p. 370.

Benjamin, Walter R., Granite City, Ill. Toy gun. No. 970,876; Sept. 20; Sp. p. 3720; Gaz. vol. 158; p. 636.

Benjamine, Frank G. (See Lawler, John, assignor.)

Benjaminowitsch, Wolff, assignor of one-half to A. Lohmann, Berlin, Germany. Cigarette-mouthpiece machine. No. 976,624; Nov. 22; Sp. p. 5609; Gaz. vol. 160; p. 949.

Benkö, Stephan, assignor to Company Limited for Exploitation of Inventions by Stephan Benko, Budapest, Austria-Hungary. Galvanic battery. No. 963,852; July 12; Sp. p. 1850; Gaz. vol. 156; p. 304.

Benkö, Stephan, assignor to Company Limited for Exploitation of Inventions by Stephen Benkö, Budapest, Austria-Hungary. Hollow carbon electrode for galvanic elements. No. 974,016; Oct. 25; Sp. p. 5461; Gaz. vol. 159; p. 946.

Benn, Hans H., Davos Platz, Switzerland. Friction-clutch. No. 966,299; Aug. 2; Sp. p. 958; Gaz. vol. 157; p. 153.

Benn, Marcene, Westfield, Pa. Shoe-cleaning device. No. 965,363; July 26; Sp. p. 5110; Gaz. vol. 156; p. 877.

Bennack, Frank P., San Antonio, Tex. Headlight. No. 964,481; July 19; Sp. p. 3135; Gaz. vol. 156; p. 546.

Benner, Andrew, Detroit, Mich. Valve construction. No. 968,916; Aug. 30; Sp. p. 6569; Gaz. vol. 157; p. 1144.

Benner, Harvey A., Washington, D. C. Press-copying device. No. 959,292; May 24; Sp. p. 6222; Gaz. vol. 154; p. 1040.

Benner, Henry L., East Mauch Chunk, Pa. Supporting belt or truss. No. 966,787; Aug. 9; Sp. p. 2071; Gaz. vol. 157; p. 344.

Benner, Henry W., Chambersburg, Pa., and A. G. Kelterborn, New York, N. Y., assignors to International Gas Development Company. Apparatus for manufacturing gas. No. 950,779; Mar. 1; Sp. p. 688; Gaz. vol. 152; p. 110.

Benner, Homer C., Lancaster, Pa. Child's swinging chair. No. 955,841; Apr. 26; Sp. p. 4655; Gaz. vol. 153; p. 829.

Benners, Edwin H., Elizabeth, N. J. Car-bolster. No. 946,099; Jan. 11; Sp. p. 2402; Gaz. vol. 150; p. 400.

Benners, Edwin H., Elizabeth, N. J. Composite paving-block. No. 948,808; Feb. 8; Sp. p. 2188; Gaz. vol. 151; p. 371.

Bennet, Frank M. (See Copeland and Bennet.)

Bennett, Albert A., Essex, Ontario, Canada. Hydrant. No. 958,079; May 17; Sp. p. 3569; Gaz. vol. 154; p. 601.

Bennett, Alonzo W., Hamden, Conn. Turbine. No. 979,735; Dec. 27; Sp. p. 5009; Gaz. vol. 161; p. 874.

Bennett, Arthur E., Buffalo, and J. H. Hunter, Williamsville, assignors of one-third to G. W. Post, Kenmore, N. Y. Carpet-beater. No. 973,847; Oct. 25; Sp. p. 5106; Gaz. vol. 159; p. 887.

Bennett, Arthur J., Cambridge, Ohio. Condiment-holder. No. 974,343; Nov. 1; Sp. p. 607; Gaz. vol. 160; p. 91.

Bennett Brown and Bennett. (See Brown and Bennett, assignors.)

Bennett, Charles A., Dover, N. J. Internal-combustion engine. No. 960,254; June 7; Sp. p. 20; Gaz. vol. 155; p. 7.

Bennett, David, *et al.* (See Jones, David F., assignor.)

Bennett, Delbert F. (See Vestal and Bennett.)

Bennett, Dwight H., Brooklyn, N. Y. Gas-engine. No. 948,950; Feb. 8; Sp. p. 2457; Gaz. vol. 151; p. 417.

Bennett, Ebenezer. (See Parsons, Stoney, and Bennett.)

Bennett, Edward C., Wormleysburg, Pa. Internal-combustion engine. No. 948,103; Feb. 1; Sp. p. 677; Gaz. vol. 151; p. 110.

Bennett, Erastus S., New York, N. Y. Screw-pump. No. 968,829; Aug. 30; Sp. p. 6385; Gaz. vol. 157; p. 1114.

Bennett, Erastus S., assignor to Continental Engineering Company, New York, N. Y. Screw-pump. No. 950,563; Mar. 1; Sp. p. 216; Gaz. vol. 152; p. 36.

Bennett, Erastus S., assignor to Continental Engineering Company, New York, N. Y. Screw-pump. No. 950,564; Mar. 1; Sp. p. 218; Gaz. vol. 152; p. 36.

Bennett, Frank I., Point Pleasant, N. J. Machine for making concrete blocks. No. 968,111; Aug. 23; Sp. p. 4840; Gaz. vol. 157; p. 840.

Bennett, Fred E., Los Angeles, Cal., assignor to Phoenix Combination Lock Company, Phoenix, Ariz. Permutation-padlock. No. 978,831; Dec. 20; Sp. p. 3032; Gaz. vol. 161; p. 539.

Bennett, Frederick. (See Old and Bennett.)

Bennett, Frederick M., assignor of one-half to S. H. Tacy, Philadelphia, Pa. Scissors-sharpener. No. 968,443; Aug. 23; Sp. p. 5538; Gaz. vol. 157; p. 955.

Bennett, George, Los Angeles, Cal. Hose-rack. No. 965,432; July 26; Sp. p. 5254; Gaz. vol. 156; p. 899.

Bennett, George L., Trenton, N. J. Escalator. No. 967,710; Aug. 16; Sp. p. 3973; Gaz. vol. 157; p. 682.

Bennett, George M., Kenosha, Wis. Device for use in producing burnt-clay ballast. No. 949,141; Feb. 15; Sp. p. 2871; Gaz. vol. 151; p. 503.

Bennett, George R., Denver, Colo. Tunneling-machine. No. 958,952; May 24; Sp. p. 5519; Gaz. vol. 154; p. 927.

Bennett, George R., Denver, Colo. Feeding mechanism for rock-drills and the like. No. 964,605; July 19; Sp. p. 3447; Gaz. vol. 156; p. 589.

Bennett, George R., Denver, Colo. Rock-drill. No. 978,981; Dec. 20; Sp. p. 3375; Gaz. vol. 161; p. 593.

Bennett, George S., San Francisco, Cal., assignor to Vacuum Specialty Manufacturing Company. Vacuum-cleaner. No. 956,148; Apr. 26; Sp. p. 5330; Gaz. vol. 153; p. 936.

Bennett, Gustave, Ravenswood, N. Y., assignor to New York Metallic Bedstead Co., Jersey City, N. J. Corner-fastener. No. 949,142; Feb. 15; Sp. p. 2872; Gaz. vol. 151; p. 503.

Bennett, Hattie E., Star township, Coffey county, Kans. Plug-lifter. No. 975,014; Nov. 8; Sp. p. 2133; Gaz. vol. 160; p. 348.

Bennett, Henry A., Geneva township, Kane county, Ill. Sash-lock. No. 954,915; Apr. 12; Sp. p. 2690; Gaz. vol. 153; p. 454.

Bennett, Herbert G. R., Youngstown, Ohio. Trap. No. 956,030; Apr. 26; Sp. p. 5062; Gaz. vol. 153; p. 895.

Bennett, James, San Francisco, Cal. Propeller-wheel. No. 974,344; Nov. 1; Sp. p. 609; Gaz. vol. 160; p. 91.

Bennett, James E., Chicago, Ill. Automobile-fender. No. 951,588; Mar. 8; Sp. p. 2282; Gaz. vol. 152; p. 396.

Bennett, James E., Atlantic City, N. J. Wave or current motor. No. 958,467; May 17; Sp. p. 4502; Gaz. vol. 154; p. 737.

Bennett, James H., Detroit, Mich., assignor of two-thirds to W. E. Merritt, Chatham, Canada, and one-third to A. J. McKinnon, Detroit, Mich. Combined china-cabinet and table. No. 956,619 May 3; Sp. p. 239; Gaz. vol. 154; p. 41.

Bennett, John B. (See Brown and Bennett.)

Bennett, Joseph H., New York, N. Y. Candy-cutting machine. No. 958,717; May 24; Sp. p. 4986; Gaz. vol. 154; p. 844.

Bennett, Joseph S., assignor of one-third to E. W. Lucas and one-third to A. C. Lucas, Fayetteville, Ark. Pruning-saw. No. 979,920; Dec. 27; Sp. p. 5420; Gaz. vol. 161; p. 937.

Bennett, Josiah Q., and R. A. Parry, Cambridge, assignors to Boston Brick Company, Boston, Mass. Burning brick. No. 956,620; May 3; Sp. p. 242; Gaz. vol. 154; p. 41.

Alphabetical list of patentees—Continued.

Bennett, Manfred H. (See Joslin and Bennett.)
Bennett, Thomas F. (See Price and Bennett.)
Bennett, Thomas S., Attleboro, Mass. Band for bracelets, &c. No. 947,322; Jan. 25; Sp. p. 5150; Gaz. vol. 150; p. 869.
Bennett, William, Chesterton, Ind. Ironing-stand. No. 952,297; Mar. 15; Sp. p. 3708; Gaz. vol. 152; p. 663.
Bennett, William R., St. John, New Brunswick, Canada. Rudder. No. 971,240; Sept. 27; Sp. p. 4483; Gaz. vol. 158; p. 784.
Bennett, William T., Mason City, Ill. Pipe-wrench. No. 966,300; Aug. 2; Sp. p. 960; Gaz. vol. 157; p. 153.
Bennett, Winchester, assignor to Winchester Repeating Arms Co., New Haven, Conn. Offset-adapter for telescopes for firearms. No. 958,989; May 24; Sp. p. 5594; Gaz. vol. 154; p. 940.
Bennett, Winchester, assignor to Winchester Repeating Arms Co., New Haven, Conn. Take-down firearm. No. 961,576; June 14; Sp. p. 2761; Gaz. vol. 155; p. 478.
Bennett, Winchester, assignor to Winchester Repeating Arms Co., New Haven, Conn. Take-down firearm. No. 963,680; July 5; Sp. p. 1428; Gaz. vol. 156; p. 224.
Bennett, Winchester, assignor to Winchester Repeating Arms Co., New Haven, Conn. Tubular magazine-firearm. No. 964,142; July 12; Sp. p. 2449; Gaz. vol. 156; p. 402.
Bennis, Alfred W., Little Hulton, England. Chain-grate furnace. No. 962,734; June 28; Sp. p. 5278; Gaz. vol. 155; p. 921.
Benoist, Condé A., St. Louis, Mo. Shock-absorber for automobile driving-shafts. No. 946,953; Jan. 18; Sp. p. 4362; Gaz. vol. 150; p. 717.
Benoit, Anatole. (See Guéniffet, Benoit, and Nicault.)
Benoit, George A. (See Bouchard and Benoit.)
Benoit, Hilaire, Brockton, Mass. Curtain-rod. No. 976,625; Nov. 22; Sp. p. 5613; Gaz. vol. 160; p. 949.
Benoit, Ida V., New York, N. Y. Storm-garment. No. 971,110; Sept. 27; Sp. p. 4196; Gaz. vol. 158; p. 741.
Benoliel, Solomon D., Niagara Falls, N. Y. Saw filing and setting machine. No. 971,718; Oct. 4; Sp. p. 432; Gaz. vol. 159; p. 75.
Bens, Samuel J. (See Hubbard and Bens.)
Bensing, Jacob, Malinta, Ohio. Tile-cutting machine. No. 957,486; May 10; Sp. p. 2111; Gaz. vol. 154; p. 366.
Bensing, Jacob, Malinta, Ohio. End-cut brick-machine. No. 975,502; Nov. 15; Sp. p. 3174; Gaz. vol. 160; p. 541.
Benson, Andrew, assignor to Fort Dearborn Manufacturing Company, Chicago, Ill. Loose-leaf binder. No. 945,681; Jan. 4; Sp. p. 1442; Gaz. vol. 150; p. 225.
Benson, Andrew, assignor to Fort Dearborn Manufacturing Company, Chicago, Ill. Loose-leaf binder. No. 949,143; Feb. 15; Sp. p. 2874; Gaz. vol. 151; p. 503.
Benson, Charles, Lake City, Minn. Compound engine. No. 969,027; Aug. 30; Sp. p. 6781; Gaz. vol. 157; p. 1182.
Benson, Charles B., Tippecanoe City, Ohio. Combined seed grader, cleaner, and purifier. No. 965,683; July 26; Sp. p. 5815; Gaz. vol. 156; p. 988.
Benson, Elof, Youngstown, Ohio. Combination calipers and poising-tool. No. 959,699; May 31; Sp. p. 7073; Gaz. vol. 154; p. 1201.
Benson, Frederick, Medford, Oreg. Necktie. No. 952,975; Mar. 22; Sp. p. 5135; Gaz. vol. 152; p. 922.
Benson, Harry F., Lynn, Mass., assignor to General Electric Company. Centrifugal pump and compressor. No. 974,345; Nov. 1; Sp. p. 610; Gaz. vol. 160; p. 91.
Benson, Harry H., Rockford, Ill. Rotary engine. No. 949,410; Feb. 15; Sp. p. 3443; Gaz. vol. 151; p. 600.
Benson, Henry A., Scranton, Pa. Weighing-machine. No. 973,909; Oct. 25; Sp. p. 5240; Gaz. vol. 159; p. 908.
Benson, John D. (See Payton, James Y., assignor.)
Benson, Peter, and J. L. Johanson, Minneapolis, Minn.; said Johanson assignor to said Benson. Guitar. No. 976,428; Nov. 22; Sp. p. 5193; Gaz. vol. 160; p. 882.
Benson, Peter J., New York, N. Y. Folding wardrobe or closet. No. 963,853; July 12; Sp. p. 1852; Gaz. vol. 156; p. 305.
Benson, William, Breckenridge, Mich. Driving-gear for traction-engines. No. 967,311; Aug. 16; Sp. p. 3160; Gaz. vol. 157; p. 547.
Benstead, Thomas. (See Fowler, Benstead, and Pepper.)
Benster, Halsey L. (See Benster, Joshua G. and H. L.)
Benster, Joshua G. and H. L., Moline, Ill. Attachment for power-presses. No. 980,047; Dec. 27; Sp. p. 5683; Gaz. vol. 161; p. 978.
Bent, Arthur, and J. H. Whiteley, Stockport, England. Ring and flier doubling-frame. No. 965,065; July 19; Sp. p. 4481; Gaz. vol. 156; p. 746.
Bent, Arthur S. (See Eads and Bent.)
Bent, George W., Cambridge, Mass. Hammock-support. No. 952,228; Mar. 15; Sp. p. 3563; Gaz. vol. 152; p. 640.
Bent, George W., Cambridge, Mass. Bed. No. 958,355; May 17; Sp. p. 4283; Gaz. vol. 154; p. 699.
Bent, George W., Cambridge, Mass. Caster. No. 959,108; May 24; Sp. p. 5845; Gaz. vol. 154; p. 979.
Bent, George W., Hyde Park, Mass. Caster. No. 966,788; Aug. 9; Sp. p. 2072; Gaz. vol. 157; p. 344.
Bent, Quincy, Lebanon, Pa. Magnetic separation of ore. No. 954,015; Apr. 5; Sp. p. 656; Gaz. vol. 153; p. 117.
Bent, Quincy, Lebanon, Pa. Magnetic ore-separating apparatus. No. 954,016; Apr. 5; Sp. p. 659; Gaz. vol. 153; p. 118.
Bent, Richard M., New York, N. Y. Piano. No. 946,320; Jan. 11; Sp. p. 2884; Gaz. vol. 150; p. 478.
Bentley, Eddie, Lincoln, Ill. Step-ladder. No. 962,881; June 28; Sp. p. 5568; Gaz. vol. 155; p. 974.
Bentley, Elam V., Everett, Wash. Combined heater and radiator. No. 971,347; Sept. 27; Sp. p. 4681; Gaz. vol. 158; p. 818.
Bentley, Fred W. (See Junggren and Bentley.)
Bentley, Fred W., Schenectady, N. Y., assignor to General Electric Company. Centrifugal governor. No. 957,861; May 17; Sp. p. 2885; Gaz. vol. 154; p. 523.
Bentley, Frederick W., Schenectady, N. Y., assignor to General Electric Company. Turbine-governor. No. 974,113; Nov. 1; Sp. p. 16; Gaz. vol. 160; p. 5.
Bentley, George R., Harrisburg Pa. Steel-tie form. No. 953,892; Apr. 5; Sp. p. 411; Gaz. vol. 153; p. 75.
Bentley, Oliver D. H., New York, N. Y. Turbine-rotor. No. 966,157; Aug. 2; Sp. p. 684; Gaz. vol. 157; p. 107.
Bentley Single-and-Stop Motion Company. (See Bentley, Thomas, assignor.)
Bentley Single-and-Stop-Motion Company. (See Paige, Van R., assignor.)
Bentley, Thomas, Dracut Center, Mass., assignor to Bentley Single-and-Stop Motion Company, Augusta, Me. Device for preventing singles in roving and similar frames. No. 971,963; Oct. 4; Sp. p. 1015; Gaz. vol. 159; p. 168.
Benton, Hattie J., Twin Falls, Idaho. Washboard. No. 964,372; July 12; Sp. p. 2896; Gaz. vol. 156; p. 478.
Bentz, Harry, Larchmont, assignor to Bentz System Company, New York, N. Y. Respiratory helmet. No. 968,232; Aug. 23; Sp. p. 5113; Gaz. vol. 157; p. 881.
Bentz System Company. (See Bentz, Harry, assignor.)
Bentzon, Malcom, and A. H. Emerson, London, England. Grinding bifocal lenses and other spherical surfaces. No. 946,571; Jan. 18; Sp. p. 3493; Gaz. vol. 150; p. 588.
Benz, Fred, Sr., Paterson, N. J. Umbrella. No. 947,671; Jan. 25; Sp. p. 5933; Gaz. vol. 150; p. 986.
Benz, John, and P. Rossbach, Chicago, Ill. Ventilating-sash. No. 957,836; May 10; Sp. p. 2822; Gaz. vol. 154; p. 484.
Benze, George, assignor to A. Wimpfheimer & Bro., New York, N. Y. Display or color card. No. 958,080; May 17; Sp. p. 3570; Gaz. vol. 154; p. 602.
Benze, George, assignor to A. Wimpfheimer & Bro., New York, N. Y. Display or color card. No. 958,218; May 17; Sp. p. 3845; Gaz. vol. 154; p. 650.
Benziger Brothers. (See Yoos, Charles, assignor.)
Benzinger Brothers. (See Van Guelpen, Otto H., assignor.)
Berard, Albert J. (See Robidoux, Louis, assignor.)
Berbecker & Rowland Manufacturing Company. (See Laun, Christian F., assignor.)
Berberich, Franz M., St. Louis, Mo. Apparatus for milking cows. No. 948,440; Feb. 8; Sp. p. 1387; Gaz. vol. 151; p. 247.
Berbig, William A., Rochester, Pa. Rapid-firing toy gun. No. 947,032; Jan. 18; Sp. p. 4519; Gaz. vo. 150; p. 744.
Bercha, Joseph, Beatrice, Nebr. Grinding-mill. No. 980,048; Dec. 27; Sp. p. 5685; Gaz. vol. 161; p. 979.
Berchelmann, Wilhelm, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Wool dye. No. 958,850; May 24; Sp. p. 5307; Gaz. vol. 154; p. 894.
Berchtold, Otto C., Lakewood, Ohio. Kitchen utensil. No. 976,979; Nov. 29; Sp. p. 6421; Gaz. vol. 160; p. 1096.
Berend, Ludwig, Crefeld, Germany, assignor to Commercial Products Company, Limited, London, England. Production of plastic and elastic substances. No. 952,724; Mar. 22; Sp. p. 4626; Gaz. vol. 152; p. 838.
Berendes, Rudolph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Santalol compound. No. 979,639; Dec. 27; Sp. p. 4804; Gaz. vol. 161; p. 843.
Berg, Alvin and R., assignors of one-third to A. A. Johnson, Sparta, Mich. Bedstead. No. 960,486; June 7; Sp. p. 494; Gaz. vol. 155; p. 82.
Berg, Andrew, assignor to The Coulter & McKenzie Machine Company, Bridgeport, Conn. Swaging-machine. No. 952,298; Mar. 15; Sp. p. 3709; Gaz. vol. 152; p. 663.
Berg, Bernhard. (See Kingston and Berg.)
Berg, Charles, Philadelphia, Pa. Automobile. No. 945,365; Jan. 4; Sp. p. 786; Gaz. vol. 150; p. 121.
Berg, Herman, New York, N. Y. Candle-holder. No. 969,767; Sept. 13; Sp. p. 1333; Gaz. vol. 158; p. 236.
Berg-Jager, Hans H., Christiania, Norway. Telephone-mouthpiece. No. 954,372; Apr. 5; Sp. p. 1430; Gaz. vol. 153; p. 238.
Berg, John, Chicago, Ill. Reversible percolator. No. 969,028; Aug. 30; Sp. p. 6784; Gaz. vol. 157; p. 1182.
Berg, Joseph. (See Kallis and Berg.)
Berg, Lars J., assignor to Metallic Sheathing Company, Chicago, Ill. Metallic sheathing. No. 945,682; Jan. 4; Sp. p. 1444; Gaz. vol. 150; p. 225.
Berg, Lars J., assignor to Metallic Sheathing Company, Chicago, Ill. Sleeping-car berth. No. 948,128; Feb. 1; Sp. p. 717; Gaz. vol. 151; p. 118.
Berg, Lars J., Pullman, assignor to The Pullman Company, Chicago, Ill. Car-window. No. 955,123; Apr. 19; Sp. p. 3081; Gaz. vol. 153; p. 553.

Alphabetical list of patentees—Continued.

Berg, Olav, and M. Imhoff, Paterson, N. J. Preserving tin-weighted silk. No. 969,446; Sept. 6; Sp. p. 621; Gaz. vol. 158; p. 99.
Berg, Robert. (See Berg, Alvin and R.)
Berg, Segvart C. O., Kansas City, Mo. Dowel-pin. No. 949,611; Feb. 15; Sp. p. 3823; Gaz. vol. 151; p. 666.
Bergahausen, George, Cincinnati, Ohio. Machine for forming stovepipe. No. 947,291; Jan. 25; Sp. p. 5065; Gaz. vol. 150; p. 857.
Bergdolt, Wilhelm. (See Blank and Bergdolt.)
Bergdolt, Wilhelm, Leverkusen, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 963,739; July 12; Sp. p. 1583; Gaz. vol. 156; p. 266.
Bergdolt, Wilhelm, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Green azo dye. No. 974,346; Nov. 1; Sp. p. 612; Gaz. vol. 160; p. 92.
Berge, Torje N., Hoboken, N. J. Building docks. No. 971,964; Oct. 4; Sp. p. 1019; Gaz. vol. 159; p. 169.
Bergell, Peter. (See Fischer and Bergell.)
Bergen, Mary E. L., Brooklyn, N. Y. Bedclothing-rest. No. 958,718; May 24; Sp. p. 4987; Gaz. vol. 154; p. 844.
Bergen Point Iron Works. (See Smith, Augustus, assignor.)
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Tubular lantern. No. 962,114; June 21; Sp. p. 3929; Gaz. vol. 155; p. 684.
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Lantern-guard. No. 974,629; Nov. 1; Sp. p. 1258; Gaz. vol. 160; p. 193.
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Gas-burner attachment for oil-burning lamps. No. 974,630; Nov. 1; Sp. p. 1260; Gaz. vol. 160; p. 194.
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Lantern. No. 977,775; Dec. 6; Sp. p. 784; Gaz. vol. 161; p. 121.
Bergens, William J., assignor to National Vacuum Devices Company, Pittsburg, Pa. Cleaning device. No. 971,518; Oct. 4; Sp. p. 16; Gaz. vol. 159; p. 5.
Bergenstrohle, Ivar G., Worcester, Mass. Pocket safety device. No. 978,106; Dec. 6; Sp. p. 1469; Gaz. vol. 161; p. 237.
Berger, Charles A., Clay Center, Kans. Foldable stand for canopy-hammocks. No. 957,644; May 10; Sp. p. 2430; Gaz. vol. 154; p. 420.
Berger, Ernst, Thal, Switzerland, assignor to The Firm of H. Levy, Rorschach, Switzerland. Bobbin-winder. No. 977,157; Nov. 29; Sp. p. 6812; Gaz. vol. 160; p. 1158.
Berger, Johann. (See Strotzka and Berger.)
Berger, Joseph, Bayonne, N. J., assignor to The Singer Manufacturing Company. Thread-controller for sewing-machines. No. 978,267; Dec. 13; Sp. p. 1849; Gaz. vol. 161; p. 323.
Berger, Joseph T., assignor of one-half to H. Stockmeier, Baltimore, Md. Pin. No. 945,260; Jan. 4; Sp. p. 530; Gaz. vol. 150; p. 87.
Berger Manufacturing Company, The. (See Schlafly, Julius H., assignor.)
Berger, Otto A., Oakland, Cal. Toilet-seat attachment. No. 949,562; Feb. 15; Sp. p. 3741; Gaz. vol. 151; p. 650.
Berger, Richard A., New York, N. Y. Card-dealing machine. No. 955,044; Apr. 12; Sp. p. 2932; Gaz. vol. 153; p. 497.
Bergeron, Joseph, Jr., Evangeline, La. Computing measuring vessel. No. 952,867; Mar. 22; Sp. p. 4925; Gaz. vol. 152; p. 887.
Bergh, Louis, Rye, N. Y. Spirit-level clinometer. No. 964,199; July 12; Sp. p. 2550; Gaz. vol. 156; p. 420.
Bergh, Svante A., Stockholm, Sweden. Band-tongs for forming tube-joints. No. 949,411; Feb. 15; Sp. p. 3445; Gaz. vol. 151; p. 601.
Berglund, Carl, East Orange, and W. C. Webb, Newark, N. J. Action for pneumatic player-pianos. No. 949,612; Feb. 15; Sp. p. 3825; Gaz. vol. 151; p. 666.
Berglund, Gustaf, assignor to D. C. Keiller, Wedevåg, Sweden. Forging-machine. No. 947,960; Feb. 1; Sp. p. 379; Gaz. vol. 151; p. 61.
Bergman, Carl O., Evanston, Ill. Latch-controlling device for clutch mechanisms. No. 978,351; Dec. 13; Sp. p. 2021; Gaz. vol. 161; p. 352.
Bergman, Sven R. (See Underwood and Bergman.)
Bergmann, Carl, and H. O. Klötzer, Meissen, Germany. Spinning-spindle. No. 953,813; Apr. 5; Sp. p. 265; Gaz. vol. 153; p. 47.
Bergmann, Rudolph E., Salt Lake City, Utah. Wheel-securing means. No. 956,031; Apr. 26; Sp. p. 5065; Gaz. vol. 153; p. 895.
Bergmark, Charles O., Chicago, Ill. Feed-water regulator. No. 961,577; June 14; Sp. p. 2762; Gaz. vol. 155; p. 479.
Bergner, Hugo H. W., Altona, Germany. Device for feeding bottles to corking-machines. No. 976,540; Nov. 22; Sp. p. 5445; Gaz. vol. 160; p. 920.
Bergner, Robert A. (See Roecker, John, Jr., assignor.)
Bergren, Erick E., Aurora, Nebr. Vegetable-loader. No. 946,321; Jan. 11; Sp. p. 2885; Gaz. vol. 150; p. 478.
Bergsman, Daniel, Adams, N. D. Attachment for pneumatic stackers. No. 979,412; Dec. 27; Sp. p. 4308; Gaz. vol. 161; p. 764.
Bergstein, Samuel, Youngstown, Ohio. Portable heater. No. 960,064; May 31; Sp. p. 7914; Gaz. vol. 154; p. 1328.
Bergström, Axel E. T., Stockholm, Sweden. Submarine mine. No. 953,191; Mar. 29; Sp. p. 5626; Gaz. vol. 152; p. 1022.
Bergström, Carl J. O., Alingsås, Sweden. Dish-washer. No. 971,658; Oct. 4; Sp. p. 308; Gaz. vol. 159; p. 55.
Bergström, Hilding O. V., Stockholm, Sweden. Distillation. No. 953,019; Mar. 29; Sp. p. 5234; Gaz. vol. 152; p. 965.
Bergstrom, Oscar M., Minneapolis, Minn. Tire-pumping attachment for automobiles. No. 968,732; Aug. 30; Sp. p. 6196; Gaz. vol. 157; p. 1082.
Bergström, Sven T. (See Cardell and Bergström.)
Bering, Delo H., Pittsburg, Pa. Incandescent lamp. No. 973,157; Oct. 18; Sp. p. 3635; Gaz. vol. 159; p. 626.
Berkebile, Robert F., assignor of one-half to T. J. Adams, Kantner, Pa. Advertisement-holder. No. 957,539; May 10; Sp. p. 2228; Gaz. vol. 154; p. 386.
Berkebile, Robert F., assignor to Kantner Company, Kantner, Pa. Advertisement-holder. No. 965,859; Aug. 2; Sp. p. 24; Gaz. vol. 157; p. 7.
Berkefeld Filter Gesellschaft G. M. B. H. (See Hebbeler, Carl, assignor.)
Berkey, Charles A., Detroit, Mich. Cuff-button or garment-fastener. No. 947,586; Jan. 25; Sp. p. 5765; Gaz. vol. 150; p. 958.
Berkley, Samuel S., Ralphton, Pa. Suspension means for trolley-wires. No. 960,065; May 31; Sp. p. 7915; Gaz. vol. 154; p. 1329.
Berkner, Charles, Litchfield, Minn. Tie-jack. No. 947,071; Jan. 18; Sp. p. 4583; Gaz. vol. 150; p. 756.
Berkovits, Béla, Budafok, Austria-Hungary. Filter-press. No. 947,883; Feb. 1; Sp. p. 229; Gaz. vol. 151; p. 37.
Berkowitz, Louis I., Boston, Mass. Hammock-support. No. 961,400; June 14; Sp. p. 2371; Gaz. vol. 155; p. 419.
Berkshire Hills Paper Co. (See Ramage and Shaw, assignors.)
Berkshire Machine Company. (See Marshall, Homer F., assignor.)
Berkshire Machine Company. (See Marshall and Clark, assignors.)
Berkstresser, Robert H., York, Pa. Incandescent-lamp manipulator. No. 977,158; Nov. 29; Sp. p. 6813; Gaz. vol. 160; p. 1158.
Berkstresser, Thomas J. (See Blakemore, James W., assignor.)
Berlik, Joseph, Jersey City, N. J. Cleansing-cloth and producing same. No. 952,868; Mar. 22; Sp. p. 4927; Gaz. vol. 152; p. 887.
Berlin-Anhaltische Maschinenbau-Actien Gesellschaft. (See Steil, Edmund, assignor.)
Berlin, Henry H., *et al.* (See Febiger, Henry B., assignor.)
Berlin Machine Works, The. (See Stevens, Burt D., assignor.)
Berlin Machine Works, The. (See Thorsby, Axel, assignor.)
Berliner Elektromobil-Fabrik G. M. B. H. (See Lassèn, Karl C., assignor.)
Berliner, Emile. (See Weinberg, Fritz, assignor.)
Berliner, Herbert S. (See Milke, Otto R., assignor.)
Berliner, Selma E., San Antonio, Tex. Leaf-turner. No. 968,733; Aug. 30; Sp. p. 6198; Gaz. vol. 157; p. 1083.
Berlinger, Theodore L., Soldiers Home, Cal. Flower-holder and insect-trap. No. 972,092; Oct. 4; Sp. p. 1253; Gaz. vol. 159; p. 212.
Berlizheimer, David T., Philadelphia, Pa. Expanding die or stamp. No. 951,589; Mar. 8; Sp. p. 2284; Gaz. vol. 152; p. 396.
Berman, Abraham, Atlanta, Ga. Straw-dispenser. No. 962,300; June 21; Sp. p. 4328; Gaz. vol. 155; p. 747.
Berman, Louis C., Chicago, Ill. Jack. No. 978,544; Dec. 13; Sp. p. 2432; Gaz. vol. 161; p. 418.
Bern, Edward A. (See Harold, James J., assignor.)
Bern, Edward A., Chicago, Ill. Piling. No. 950,608; Mar. 1; Sp. p. 303; Gaz. vol. 152; p. 50.
Bern, Minnie, *et al.* (See Forst, Moritz, assignor.)
Bernard, Clay. (See Newchurch and Bernard.)
Bernard, James L., Ambridge, Pa. Nut or clamp. No. 968,112; Aug. 23; Sp. p. 4843; Gaz. vol. 157; p. 841.
Bernard, James L., Ambridge, Pa. Adjusting clamp or nut. No. 968,113; Aug. 23; Sp. p. 4844; Gaz. vol. 157; p. 841.
Bernard, Lewis A., assignor to Peerless Cream Separator Company, Waterloo, Iowa. Resilient collar-bearing for centrifugal machines. No. 967,312; Aug. 16; Sp. p. 3164; Gaz. vol. 157; p. 547.
Bernard, William, New York, N. Y. Sight for firearms. No. 945,366; Jan. 4; Sp. p. 788; Gaz. vol. 150; p. 121.
Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Pliers and similar tool. No. 945,012; Jan. 4; Sp. p. 3; Gaz. vol. 150; p. 3.
Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Pliers, nippers, and similar tool. No. 962,414; June 28; Sp. p. 4583; Gaz. vol. 155; p. 810.
Bernasconi, Arthur E., Coventry, England. Composition of matter to be used in the manufacture of imitation leaded glass. No. 965,860; Aug. 2; Sp. p. 26; Gaz. vol. 157; p. 7.

Alphabetical list of patentees—Continued.

Bernasconi, Jean, *et al.* (See Cervelli, José, assignor.)
Bernat, Adolf. (See Bernat, Ross, and Bernat.)
Bernat, Isak, C. Ross, and A. Bernat, Kansas City, Mo. Shoe. No. 964,482; July 19; Sp. p. 3137; Gaz. vol. 156; p. 546.
Bernati, Gaspare, *et al.* (See Cipollina, Giuseppe, assignor.)
Bernau, Friedrich. (See Bernau, Gottfried J., assignor.)
Bernau, Gottfried J., New York, N. Y., assignor of one-half to F. Bernau, Cologne, Germany. Adjustable light-bracket for Christmas trees. No. 964,840; July 19; Sp. p. 4028; Gaz. vol. 156; p. 670.
Bernau, Gottfried J., New York, N. Y., assignor of one-half to F. Bernau, Cologne, Germany. Candelabrum. No. 964,841; July 19; Sp. p. 4029; Gaz. vol. 156; p. 671.
Bernauer, George W., St. Charles, Mo. Flue-blower. No. 956,670; May 3; Sp. p. 352; Gaz. vol. 154; p. 58.
Berndt, Reinhold, Berlin, Germany. Phonograph. No. 956,671; May 3; Sp. p. 354; Gaz. vol. 154; p. 59.
Berndt, Wilhelm, Haven, Wis. Gang-plow. No. 976,338; Nov. 22; Sp. p. 5001; Gaz. vol. 160; p. 849.
Berne, R. John, *et al.* (See Haddock, Worcester, assignor.)
Bernert, George and J., South Germantown, Wis. Pneumatic elevator. No. 977,849; Dec. 6; Sp. p. 932; Gaz. vol. 161; p. 147.
Bernert, Jacob. (See Bernert, George and J.)
Bernhard, Edward J. (See Hohmann, Richard K., assignor.)
Bernhard, John B., Newark, N. J., assignor to Union Boiler Company, New York, N. Y. Sectional boiler. No. 979,736; Dec. 27; Sp. p. 5011; Gaz. vol. 161; p. 875.
Bernhard, John B., Newark, N. J., assignor to Union Boiler Company, New York, N. Y. Clamp for assembling boiler-sections. No. 979,737; Dec. 27; Sp. p. 5013; Gaz. vol. 161; p. 875.
Bernhard, John B., Newark, N. J., assignor to Union Boiler Company, New York, N. Y. Double sectional boiler. No. 979,738; Dec. 27; Sp. p. 5015; Gaz. vol. 161; p. 876.
Bernhard, Philip L., Columbus, Ohio. Sash-lock. No. 963,983; July 12; Sp. p. 2122; Gaz. vol. 156; p. 347.
Bernhard, Richard. (See Lowry and Bernhard.)
Bernhard, Richard. (See Niedermeyer and Bernhard.)
Bernhard, Richard, Milwaukee, assignor to Power and Mining Machinery Company, Cudahy, Wis. Crushing-roll. No. 956,878; May 3; Sp. p. 819; Gaz. vol. 154; p. 131.
Bernhardi, Reinhard C. F. A. C. (See Muller-Jacobs and Bernhardi.)
Bernhardt, Herman V., Newark, N. J. Jeweler's gage. No. 950,221; Feb. 22; Sp. p. 5187; Gaz. vol. 151; p. 910.
Bernhardt, Julian, San Francisco, Cal. Combined bookmark and corner-protector. No. 964,895; July 19; Sp. p. 4142; Gaz. vol. 156; p. 689.
Bernhardt Manufacturing Company. (See Gerling, Charles H., assignor.)
Bernheim, Eugene C., assignor to American Optical Company, Southbridge, Mass. Finger-piece eyeglasses. No. 969,447; Sept. 6; Sp. p. 621; Gaz. vol. 158; p. 99.
Bernier, Jean B., Lowell, Mass. Car-fender. No. 957,540; May 10; Sp. p. 2230; Gaz. vol. 154; p. 386.
Bernstein, Henry, Philadelphia, Pa. Manufacture of artificial silk. No. 960,791; June 7; Sp. p. 1118; Gaz. vol. 155; p. 187.
Bernstein, Henry, Philadelphia, Pa. Making cuprammonium solution. No. 965,273; July 26; Sp. p. 4900; Gaz. vol. 156; p. 845.
Bernstein, Henry, Philadelphia, Pa. Making cuprammonium solution. No. 965,557; July 26; Sp. p. 5547; Gaz. vol. 156; p. 945.
Bernstein, Julius F., assignor to W. J. Cunningham, New York, N. Y. Valve-fitting. No. 977,261; Nov. 29; Sp. p. 7024; Gaz. vol. 160; p. 1194.
Bernstein, Peter, Mulheim-on-the-Rhine, Germany. Hydraulic air-compressor. No. 955,124; Apr. 19; Sp. p. 3082; Gaz. vol. 153; p. 553.
Bernstein, William F., Philadelphia, Pa. Combined serving-table and towel-rack. No. 967,600; Aug. 16; Sp. p. 3763; Gaz. vol. 157; p. 646.
Bernstein, William F., Philadelphia, Pa. Stretcher for hospital and other purposes. No. 970,877; Sept. 20; Sp. p. 3722; Gaz. vol. 158; p. 636.
Berntson, Thomas, Pittsburg, Pa. Wheel. No. 948,408; Feb. 8; Sp. p. 1327; Gaz. vol. 151; p. 237.
Berntson, Thomas, Pittsburg, Pa., assignor to J. W. Carnahan, Washington, D. C., and F. C. Park, Pittsburg, Pa. Vacuum churn apparatus. No. 975,380; Nov. 8; Sp. p. 2926; Gaz. vol. 160; p. 472.
Berntson, Thomas, Pittsburg, Pa., assignor to F. C. Park, J. W. Carnahan, and E. P. Morey, Washington, D. C. Wheel. (Reissue.) No. 13,177; Dec. 6; Sp. p. 1522; Gaz. vol. 161; p. 245.
Bernz, Otto. (See Flitcroft, James E., assignor.)
Bernz, Otto, Newark, N. J. Attachment for blow-torches. No. 955,313; Apr. 19; Sp. p. 3489; Gaz. vol. 153; p. 619.
Berquam, Olai O., Grafton, N. D. Safety lamp-burner. No. 970,782; Sept. 20; Sp. p. 3531; Gaz. vol. 158; p. 604.
Berreyesa, Abe E., Oakland, Cal. Ink-distributer. No. 971,821; Oct. 4; Sp. p. 645; Gaz. vol. 159; p. 113.
Berrigan, John J., Orange, N. J. Centrifugal separator. No. 965,558; July 26; Sp. p. 5548; Gaz. vol. 156; p. 945.
Berry, Arthur F., Ealing, England, assignor to General Electric Company. Electrically-heated apparatus suitable for cooking and other purposes. No. 959,913; May 31; Sp. p. 7545; Gaz. vol. 154; p. 1274.
Berry, Arthur J. (See Glosser, Frank D., assignor.)
Berry, Austin, Ottawa, Ontario, Canada. Compound rail. No. 964,606; July 19; Sp. p. 3449; Gaz. vol. 156; p. 590.
Berry, Charles, Belfast, Ireland, assignor to Linen Thread Company. Ball of twine, cord, and the like. No. 963,114; July 5; Sp. p. 236; Gaz. vol. 156; p. 31.
Berry, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Stop-work mechanism for locks. No. 948,201; Feb. 1; Sp. p. 864; Gaz. vol. 151; p. 141.
Berry, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 949,613; Feb. 15; Sp. p. 3826; Gaz. vol. 151; p. 667.
Berry, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combined rim and mortise lock. No. 957,139; May 3; Sp. p. 1357; Gaz. vol. 154; p. 217.
Berry, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Knob and spindle fastening. No. 957,837; May 10; Sp. p. 2824; Gaz. vol. 154; p. 484.
Berry, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 959,293; May 24; Sp. p. 6223; Gaz. vol. 154; p. 1040.
Berry, Charles L. (See Alexander, Hayes J. J., assignor.)
Berry, Charles M., assignor of one-half to B. Rosenberg, New York, N. Y. Window-fastener. No. 979,251; Dec. 20; Sp. p. 4003; Gaz. vol. 161; p. 688.
Berry, Edgar H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 956,672; May 3; Sp. p. 356; Gaz. vol. 154; p. 59.
Berry, Edgar H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 963,269; July 5; Sp. p. 617; Gaz. vol. 156; p. 86.
Berry, Edward R., and E. J. Guay, Lynn, Mass., assignors to General Electric Company. Electrode for arc-lamps. No. 974,227; Nov. 1; Sp. p. 273; Gaz. vol. 160; p. 46.
Berry, George W., Bayonne, N. J. Drain-pipe fitting. No. 957,487; May 10; Sp. p. 2113; Gaz. vol. 154; p. 367.
Berry, Harry C., Toledo, Ohio. Milk and cream tester. No. 950,741; Mar. 1; Sp. p. 605; Gaz. vol. 152; p. 96.
Berry, Harry C., Los Angeles, Cal. Roller-bearing. No. 952,667; Mar. 22; Sp. p. 4501; Gaz. vol. 152; p. 818.
Berry, Harry C., and S. B. Epler, assignors of one-third to T. W. Howard, Toledo, Ohio. Calf-feeder. No. 966,645; Aug. 9; Sp. p. 1730; Gaz. vol. 157; p. 295.
Berry, Harvey S., Milford, Tex. Cotton-chopper attachment. No. 976,842; Nov 29; Sp. p. 6074; Gaz. vol. 160; p. 1047.
Berry, Herbert H., and W. J. Markham, London, England. Protected or armor-clad electric-switch fuse. No. 970,296; Sept. 13; Sp. p. 2470; Gaz. vol. 158; p. 416.
Berry, James R., Jonesboro, Tenn. Saw-guide. No. 973,848; Oct. 25; Sp. p. 5107; Gaz. vol. 159; p. 887.
Berry, Robert L. F., Miller Place, N. Y., assignor of one-third to F. W. Schwer, Glen Ridge, N. J., and one-third to C. C. Bahr, Yonkers, N. Y. Swimming-bag. No. 977,065; Nov. 29; Sp. p. 6593; Gaz. vol. 160; p. 1125.
Berry, Seneca L., Sunnyvale, Cal. Hydraulic giant. No. 978,107; Dec. 6; Sp. p. 1470; Gaz. vol. 161; p. 237.
Berry, Silas L., Redlands, Cal. Perpetual calendar. No. 975,319; Nov. 8; Sp. p. 2803; Gaz. vol. 160; p. 452.
Berry, Stephen W., Bellmore, Ind. Clamp for stretching wire fences. No. 948,367; Feb. 8; Sp. p. 1224; Gaz. vol. 151; p. 223.
Berry, William, Fond du Lac, Wis. Rail-clamp. No. 957,838; May 10; Sp. p. 2825; Gaz. vol. 154; p. 485.
Berry, William, and G. W. Post, Fond du Lac, Wis. Rail-clamp. No. 966,989; Aug. 9; Sp. p. 2496; Gaz. vol. 157; p. 410.
Berryman, Abraham R., East Altoona, Pa. Rail-joint. No. 957,030; May 3; Sp. p. 1150; Gaz. vol. 154; p. 182.
Berryman, James H., Tacoma, Wash. Car-dumping device. No. 977,699; Dec. 6; Sp. p. 637; Gaz. vol. 161; p. 97.
Bersted, Martin C., Chicago, Ill. Wrench. No. 974,772; Nov. 8; Sp. p. 1573; Gaz. vol. 160; p. 265.
Berthel, Katherine, New York, N. Y. Ear-bandage. No. 973,158; Oct. 18; Sp. p. 3637; Gaz. vol. 159; p. 626.
Berthelsen, Anton, *et al.* (See Johnson, Samuel O., assignor.)
Berthold, Edward E., and H. Horstmann, Chicago, Ill. Combined work-bench drawer and portable tool-chest. No. 971,584; Oct. 4; Sp. p. 158; Gaz. vol. 159; p. 29.
Bertholf, Edward, Watkins, N. Y. Flying-machine. No. 977,997; Dec. 6; Sp. p. 1243; Gaz. vol. 161; p. 199.
Bertin, Isaac, New York, N. Y. Machine for making paper dishes. No. 970,168; Sept. 13; Sp. p. 2186; Gaz. vol. 158; p. 372.
Bertin, Paul E. and R. L., assignors to Reinforcement Supply Company, New York, N. Y. Truss-bar. No. 957,181; May 10; Sp. p. 1466; Gaz. vol. 154; p. 261.
Bertin, René L. (See Bertin, Paul E. and R. L.)
Bertke, Bernard, Cranberry Prairie, Ohio. Unloading apparatus. No. 961,336; June 14; Sp. p. 2264; Gaz. vol. 155; p. 400.

Alphabetical list of patentees—Continued.

Bertram, Henry W., and F. L. Lamoreaux, assignors to Standard Auto Accessory Mfg. Co., Detroit, Mich. Wind-shield for vehicles. No. 957,541; May 10; Sp. p. 2233; Gaz. vol. 154; p. 386.

Bertram, P. C. (See Montague, Rodney, assignor.)

Bertram, William E., Brooklyn, assignor to Mergenthaler Linotype Company, New York, N. Y. Matrix-delivery mechanism for monoline composing-machines. No. 975,503; Nov. 15; Sp. p. 3168; Gaz. vol. 160; p. 541.

Bertram, William E., Brooklyn, assignor to Mergenthaler Linotype Company, New York, N. Y. Font-selecting mechanism for monoline composing-machines. No. 978,108; Dec. 6; Sp. p. 1471; Gaz. vol. 161; p. 237.

Bertrand, Clovis, Barnes, London, England. Hood for road-vehicles. No. 956,563; May 3; Sp. p. 117; Gaz. vol. 154; p. 22.

Bertrand, Nazaire, St. Anne, Ill. Adjustable journal-box for driven shafts. No. 967,313; Aug. 16; Sp. p. 3165; Gaz. vol. 157; p. 548.

Berwanger, Louis, St. Louis, Mo. Strainer for sewer-traps. No. 951,795; Mar. 15; Sp. p. 2718; Gaz. vol. 152; p. 497.

Berwanger, Louis, St. Louis, Mo. Trap for sewer vent-pipes. No. 965,861; Aug. 2; Sp. p. 27; Gaz. vol. 157; p. 7.

Besançon, James. (See Steiger and Besançon.)

Beskow, Knut J., Helsingborg, Sweden. Apparatus for removing superphosphates from the decomposition-chamber. No. 949,055; Feb. 15; Sp. p. 2694; Gaz. vol. 151; p. 479.

Beskow, Knut J., Helsingborg, and M. Ekedahl, Limhamn, Sweden. Device for emptying superphosphate out of decomposition-chambers No. 956,792; May 3; Sp. p. 625; Gaz. vol. 154; p. 100.

Besler, Charles L. (See Schemmel and Besler.)

Besselman, Frank W. (See Ritchay and Besselman.)

Besser, Charles A., Mount Pleasant, Iowa. Collapsible form for building culverts. No. 952,869; Mar. 22; Sp. p. 4928; Gaz. vol. 152; p. 887.

Besser, Herman, Alpena, Mich. Sectional metallic centering-form. No. 963,984; July 12; Sp. p. 2123; Gaz. vol. 156; p. 347.

Bessler, Frank E., Akron, Ohio. Door-latch. No. 956,273; Apr. 26; Sp. p. 5615; Gaz. vol. 153; p. 979.

Bessler, Frank E., Akron, Ohio. Movable stairway. No. 966,518; Aug. 9; Sp. p. 1473; Gaz. vol. 157; p. 253.

Besson, Louis C. (See Ludington, Marshall, and Besson.)

Best, Alfred, Salt Lake City, Utah. Car-ventilator. No. 964,373; July 12; Sp. p. 2898; Gaz. vol. 156; p. 479.

Best, Charles J., Oakland, Cal. Ore-furnace. No. 979,921; Dec. 27; Sp. p. 5422; Gaz. vol. 161; p. 937.

Best, Edward, London, Ontario, Canada, and D. A. Scott, Oshkosh, Wis. Car-replacer. No. 957,405; May 10; Sp. p. 1963; Gaz. vol. 154; p. 339.

Best, Ergenia M., Salina, Kans. Window-glass holder. No. 973,744; Oct. 25; Sp. p. 4892; Gaz. vol. 159; p. 850.

Best, Ezra, *et al.* (See Best, William N., assignor.)

Best, John H., *et al.* (See Best, William N., assignor.)

Best, Julius J., Woodville, Tex. Window ventilation. No. 948,779; Feb. 8; Sp. p. 2127; Gaz. vol. 151; p. 362.

Best, Robert L., Bismarck, N. D. Funnel. No. 954,161; Apr. 5; Sp. p. 989; Gaz. vol. 153; p. 167.

Best, Wellington. (See Cauffman and Best.)

Best, William G. (See Lester and Best.)

Best, William J., Detroit, Mich. Oven. No. 979,413; Dec. 27; Sp. p. 4309; Gaz. vol. 161; p. 764.

Best, William N., New York, N. Y. Regulating-cock. No. 948,036; Feb. 1; Sp. p. 536; Gaz. vol. 151; p. 86.

Best, William N., New York, N. Y., assignor to J. H. and E. Best, Quincy, Ill. Heating and melting metals. No. 961,674; June 14; Sp. p. 2961; Gaz. vol. 155; p. 512.

Best, William N., New York, N. Y., assignor to L. Schaefle, Los Angeles, Cal., and J. H. and E. Best, Quincy, Ill. Oil-gas heating and lighting system. No. 968,233; Aug. 23; Sp. p. 5117; Gaz. vol. 157; p. 882.

Best, William N., Jr., New York, assignor of three-fourths to W. N. Best, Sr., Brooklyn, N. Y. Hydrocarbon-burner. No. 963,985; July 12; Sp. p. 2125; Gaz. vol. 156; p. 348.

Best, William N., Sr. (See Best, William N., Jr., assignor.)

Besten, Teunis D., Corsica, S. D. Clevis. No. 963,501; July 5; Sp. p. 1075; Gaz. vol. 156; p. 164.

Bestgen, John G., Quincy, assignor to King of All Stropper Company, Boston, Mass. Razor-stropper. No. 957,140; May 3; Sp. p. 1360; Gaz. vol. 154; p. 218.

Bethards, Lonzo B., Chicago, Ill. Safety locking mechanism for package-carriers. No. 955,628; Apr. 19; Sp. p. 4172; Gaz. vol. 153; p. 727.

Bethards, Lonzo B., Chicago, Ill. Store-service apparatus. No. 955,629; Apr. 19; Sp. p. 4175; Gaz vol. 153; p. 727.

Bethards, Lonzo B., Chicago, Ill. Store-service apparatus. No. 972,432; Oct. 11; Sp. p. 1980; Gaz. vol. 159; p. 348.

Bethlehem Foundry & Machine Company. (See Dimler, Ernest H., assignor.)

Bethlehem Steel Co. (See Philp, Casimir von, assignor.)

Bethlehem Steel Company. (See Gathmann, Emil A., assignor.)

Bethlehem Steel Company. (See Meigs and Hammar, assignors.)

Bethlehem Steel Company. (See Meigs and Jakobson, assignors.)

Bethlehem Steel Company. (See Wilson and Lynch, assignors.)

Bettendorf Axle Company. (See Taylor, Ralph G., assignor.)

Bettendorf, William P., Davenport, Iowa. Brake-beam. No. 950,653; Mar. 1; Sp. p. 411; Gaz. vol. 152; p. 66.

Bettendorf, William P., Davenport, Iowa. Flooring for railway-cars. No. 953,116; Mar. 29; Sp. p. 5463; Gaz. vol. 152; p. 998.

Bettendorf, William P., Davenport, Iowa. Beamless brake mechanism for railway-cars. No. 956,673; May 3; Sp. p. 362; Gaz. vol. 154; p. 60.

Bettendorf, William P., Davenport, Iowa. Underframe for cars. No. 957,182; May 10; Sp. p. 1467; Gaz. vol. 154; p. 262.

Bettendorf, William P., Davenport, Iowa. Draft-rigging. No. 960,255; June 7; Sp. p. 23; Gaz. vol. 155; p. 7.

Bettendorf, William P., Bettendorf, Iowa. Box-car. No. 953,115; Mar. 29; Sp. p. 5460; Gaz. vol. 152; p. 997.

Bettenhausen, Charles C., Princeton, Nebr. Automobile driving-gear. No. 974,773; Nov. 8; Sp. p. 1575; Gaz. vol. 160; p. 265.

Bettigole, Samel, New Haven, Conn. Curtain-bracket. No. 960,792; June 7; Sp. p. 1118; Gaz. vol. 155; p. 187.

Bettinger, Harry, *et al.* (See Schmidt, Leonard F., assignor.)

Bettington, Claude A., Johannesburg, Transvaal. Steam-boiler. No. 973,468; Oct. 25; Sp. p. 4307; Gaz. vol. 159; p. 756.

Bettis, William E., Corry, Pa. Fishing-gaff. No. 949,750; Feb. 22; Sp. p. 4117; Gaz. vol. 151; p. 745.

Betts, Anson G., Troy, N. Y. Utilizing buried coal. No. 947,608; Jan. 25; Sp. p. 5810; Gaz. vol. 150; p. 965.

Betts, Anson G., Troy, N. Y. Production of ferric salts. No. 969,833; Sept. 13; Sp. p. 1499; Gaz. vol. 158; p. 258.

Betts, Charles L., assignor to R. E. Dietz Company, New York, N. Y. Burner-fastening for lamps and lanterns. No. 962,115; June 21; Sp. p. 3930; Gaz. vol. 155; p. 685.

Betts, Charles L., assignor to R. E. Dietz Company, New York, N. Y. Spring-fastening for lanterns. No. 978,545; Dec. 13; Sp. p. 2435; Gaz. vol. 161; p. 419.

Betz, Frank S. (See Cedergren, Fred, assignor.)

Betz, Frank S. (See Pickart, Emil, assignor.)

Betz, Henry, La Fontaine, Ind. Nut-lock. No. 949,412; Feb. 15; Sp. p. 3446; Gaz. vol. 151; p. 601.

Betzold, Julius J., St. Louis, Mo. Work-table for bars, soda-fountain counters, and the like. No. 947,609; Jan. 25; Sp. p. 5813; Gaz. vol. 150; p. 965.

Beucler, Frederick P., assignor of one-half to M. Jones, Apache, Okla. Oil-burner attachment for stoves. No. 976,626; Nov. 22; Sp. p. 5614; Gaz. vol. 160; p. 949.

Beugler, Edwin F., assignor to E. B. Holmes, Buffalo, N. Y. Machine for heading up barrels. No. 946,714; Jan. 18; Sp. p. 3792; Gaz. vol. 150; p. 634.

Beugnot, Jules C. (See Humbert and Beugnot.)

Beutler, Christian H., Mound township, McPherson county, Kans. Rail-joint. No. 953,583; Mar. 29; Sp. p. 6472; Gaz. vol. 152; p. 1157.

Bevan, Alexander, Providence, R. I. Surfacing-roll. No. 948,157; Feb. 1; Sp. p. 778; Gaz. vol. 151; p. 128.

Bevan, Alexander, Providence, R. I. Surfacing-machine. No. 979,739; Dec. 27; Sp. p. 5018; Gaz. vol. 161; p. 876.

Bevans, James W., Washington, D. C. Toy book. No. 961,675; June 14; Sp. p. 2962; Gaz. vol. 155; p. 512.

Beverly, Francis M., Gadsden, Ala. Stove. No. 948,986; Feb. 15; Sp. p. 2538; Gaz. vol. 151; p. 457.

Beverly Lock-Nut and Lock-Bolt Company. (See Burrows, Clarence B., assignor.)

Bevil, Andrew H. and C. W., Warren, Tex. Axle-skein. No. 979,368; Dec. 20; Sp. p. 4210; Gaz. vol. 161; p. 726.

Bevil, Charles W. (See Bevil, Andrew H. and C. W.)

Bevill, Claibourn, Bushnell, Fla. Irrigating apparatus. No. 959,914; May 31; Sp. p. 7550; Gaz. vol. 154; p. 1275.

Bevin Brothers Manufacturing Company. (See Arnold, Philip C., assignor.)

Bewan, James O., Miami, Fla. Tank. No. 954,916; Apr. 12; Sp. p. 2692; Gaz. vol. 153; p. 455.

Bewsic, William W., Red Bank, N. J. Undergarment. No. 971,659; Oct. 4; Sp. p. 310; Gaz. vol. 159; p. 56.

Bex, Frederick, assignor of one-half to H. E. Rupprecht, Washington, D. C. Shock-absorber for street-railways. No. 965,794; July 26; Sp. p. 6051; Gaz. vol. 156; p. 1026.

Bey, Samuel, Bennington, N. Y. Windmill. No. 964,374; July 12; Sp. p. 2900; Gaz. vol. 156; p. 479.

Beydler, Frank M., Ashland, Kans. Plow. No. 978,815; Dec. 13; Sp. p. 2994; Gaz. vol. 161; p. 507.

Beydler, Frank M., Ashland, Kans., and H. K. Kinney, Readout, Okla. Traction-engine coupling. No. 945,683; Jan. 4; Sp. p. 1445; Gaz. vol. 150; p. 226.

Beyer, August, Buffalo, N. Y. Combination-faucet. No. 961,426; June 14; Sp. p. 2430; Gaz. vol. 155; p. 428.

Beyer, Bertrand E., assignor of one-half to W. Molenaar, Paterson, N. J. Adjustable bracket for furniture and the like. No. 980,049; Dec. 27; Sp. p. 5687; Gaz. vol. 161; p. 979.

Beyer, Conrad, Cologne-Rodenkirchen, Germany. Hair-tonic. No. 946,633; Jan. 18; Sp. p. 3629; Gaz. vol. 150; p. 609.

Alphabetical list of patentees—Continued.

Beyer, Emil, assignor of one-half to F. J. Schaefer, Newark, N. J. Burner for fire-pots, blow-torches, and the like. No. 970,416; Sept. 13; Sp. p. 2691; Gaz. vol. 158; p. 455.

Beyer, Otto S., East Rutherford, N. J., assignor to Automatic Platen Press Company, New York, N. Y. Sheet-manipulating device. No. 946,100; Jan. 11; Sp. p. 2405; Gaz. vol. 150; p. 400.

Beyer, Otto S., East Rutherford, N. J., assignor to Automatic Platen Press Company, New York, N. Y. Counterbalancing device. No. 971,585; Oct. 4; Sp. p. 159; Gaz. vol. 159; p. 29.

Beyerle, Frank C., assignor of one-half to R. M. Mobius, San Diego, Cal. Reversible steam-turbine. No. 961,205; June 14; Sp. p. 1953; Gaz. vol. 155; p. 353.

Beymer, Adelbert S., Kansas City, Mo. Corn-planter. No. 960,487; June 7; Sp. p. 496; Gaz. vol. 155; p. 83.

Beynroth & Wettig. (See Wettig, George, assignor.)

Bice, Walter H., Maple Lodge, Ontario, assignor of one-half to A. Westman, and one-sixth to W. R. Colby, London, Canada. Automatic pressure-reduction valve. No. 952,410; Mar. 15; Sp. p. 3919; Gaz. vol. 152; p. 701.

Bice, Walter H., Maple Lodge, Ontario, assignor of one-half to A. Westman and one-sixth to W. R. Colby, London, Canada. Water-feed regulator. No. 962,735; June 28; Sp. p. 5280; Gaz. vol. 155; p. 921.

Bice, Walter H., Maple Lodge, Ontario, assignor of one-half to A. Westman and one-sixth to W. R. Colby, London, Canada. Pump-governor. No. 962,736; June 28; Sp. p. 5282; Gaz. vol. 155; p. 922.

Bice, Walter H., Maple Lodge, Ontario, assignor of one-third to A. Westman and one-sixth to W. R. Colby, London, Ontario, Canada. Automatic pressure-reduction valve. No. 962,737; June 28; Sp. p. 5284; Gaz. vol. 155; p. 922.

Bice, Walter H., Maple Lodge, Ontario, assignor of one-sixth to W. R. Colby and one-half to A. Westman, London, Canada. Water-feed regulator. No. 963,019; June 28; Sp. p. 5816; Gaz. vol. 155; p. 1018.

Bichler, Leopold. (See Wagener, Clemens, assignor.)

Bick, Harry, Yonkers, N. Y. Cheese-cutter. No. 973,849; Oct. 25; Sp. p. 5108; Gaz. vol. 159; p. 887.

Bickel, Charles W., Evansville, Ind. Type-writer desk. No. 956,513; May 3; Sp. p. 14; Gaz. vol. 154; p. 5.

Bickel, Henry F., New York, N. Y., assignor to New York Air Brake Company. Pressure-retaining valve. No. 962,545; June 28; Sp. p. 4877; Gaz. vol. 155; p. 856.

Bickel, Henry F., New York, N. Y., assignor to New York Air Brake Company. Air-brake apparatus. No. 962,546; June 28; Sp. p. 4879; Gaz. vol. 155; p. 856.

Bickers, Lucius T., and T. J. Lee, Moody, Tex. Cotton-topper. No. 951,796; Mar. 15; Sp. p. 2720; Gaz. vol. 152; p. 497.

Bickford, Arthur O. (See Vanderlip, Earl, assignor.)

Bickford, Ernest A., and W. A. Sweet, Worcester, Mass. Slipper-sole. No. 960,149; May 31; Sp. p. 8064; Gaz. vol. 154; p. 1356.

Bickhard, J. Henry, Evansport, Ohio. Cultivator shovel and fender. No. 947,587; Jan. 25; Sp. p. 5766; Gaz. vol. 150; p. 958.

Bicknell, George J., Hull, and W. O. Webber, Brookline, assignors to G. J. Bicknell, Hull, Mass. Device for displaying merchandise. No. 951,413; Mar. 8; Sp. p. 1945; Gaz. vol. 152; p. 337.

Bicksler, Jacob H., Palmyra, Pa. Heating-drum. No. 964,082; July 12; Sp. p. 2326; Gaz. vol. 156; p. 382.

Biddell, George E. (See Prince and Biddell.)

Biddeloo, Auguste L. A., Paris, France. Collar holder or retainer. No. 961,017; Sept. 27; Sp. p. 3992; Gaz. vol. 158; p. 709.

Biddle, Henry L., Dayton, Ohio. Door-hanger. No. 971,586; Oct. 4; Sp. p. 161; Gaz. vol. 159; p. 30.

Bidwill, William E., *et al.* (See Castle, Frank, assignor.)

Bieber, Frederick S., Poughkeepsie, N. Y. Water-drain for buildings. No. 974,631; Nov. 1; Sp. p. 1261; Gaz. vol. 160; p. 194.

Bieber, James A., Frankfort, Ind. Vehicle-body. No. 963,854; July 12; Sp. p. 1853; Gaz. vol. 156; p. 305.

Biedenmeister, Frederick, assignor to Good Manufacturing Company, New York, N. Y. Ball-cock. No. 951,172; Mar. 8; Sp. p. 1433; Gaz. vol. 152; p. 260.

Bieder, Herman, Ashtabula, Ohio. Refrigerator. No. 948,756; Feb. 8; Sp. p. 2078; Gaz. vol. 151; p. 354.

Bieder, Herman, Ashtabula, Ohio. Ice-cream disher. No. 954,498; Apr. 12; Sp. p. 1718; Gaz. vol. 153; p. 308.

Bieder, Jacob L., Chicago, Ill. Document-file. No. 952,441; Mar. 22; Sp. p. 3985; Gaz. vol. 152; p. 739.

Biehl, Antonio, El Paso, Tex. Advertising-chair. No. 958,793; May 24; Sp. p. 5178; Gaz. vol. 154; p. 871.

Biel, Richard, Itzehoe, Germany. Window. No. 970,980; Sept. 20; Sp. p. 3918; Gaz. vol. 158; p. 669.

Bielenberg, Markus, Sankt Margarethen, Germany. Hedge-trimming machine. No. 954,667; Apr. 12; Sp. p. 2093; Gaz. vol. 153; p. 367.

Bierce, Fred N., and E. T. Jones, assignors of one-third to C. W. Gerwig, Pittsburg, Pa. Connection and seal for the ends of electric cables. No. 965,684; July 26; Sp. p. 5817; Gaz. vol. 156; p. 988.

Bierer, George W., Pittsburg, Pa. Antiskidding protector. No. 969,744; Sept. 6; Sp. p. 1274; Gaz. vol. 158; p. 204.

Bierman, Albert D., assignor to The Kinnear and Gager Manufacturing Company, Columbus, Ohio. Roofing or siding shingle. No. 974,461; Nov. 1; Sp. p. 889; Gaz. vol. 160; p. 131.

Bierman, Edward R., Lorain, and G. H. Keast, Elyria, Ohio, assignors to National Tube Company, Pittsburg, Pa. Guiding apparatus for plate-trimming shears. No. 962,191; June 21; Sp. p. 4102; Gaz. vol. 155; p. 712.

Bigby, Colquitt H., assignor of one-third to J. L. Crane and one-third to C. A. Miers, Doddridge, Ark. Automatic electric parcel-carrier. No. 965,066; July 19; Sp. p. 4482; Gaz. vol. 156; p. 746.

Bigelow, Bert J., La Crosse, Wis. Milking-machine. No. 948,841; Feb. 8; Sp. p. 2252; Gaz. vol. 151; p. 382.

Biggers, Samuel A., McLean, Tex. Valve. No. 953,683; Apr. 5; Sp. p. 9; Gaz. vol. 153; p. 4.

Biggert, Florence C., Jr., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Clutch mechanism. No. 958,710; May 17; Sp. p. 4963; Gaz. vol. 154; p. 816.

Biggins, Henry E., Wallingford, Conn. Coffee-pot. No. 961,096; June 14; Sp. p. 1735; Gaz. vol. 155; p. 315.

Biggs, John M., Dayton, Ohio. Aeroplane flying-machine. No. 968,734; Aug. 30; Sp. p. 6201; Gaz. vol. 157; p. 1083.

Bigham, Neal J., Detroit, assignor to H. A. Robertson, Grand Rapids, Mich. Insulating-hanger. No. 977,262; Nov. 29; Sp. p. 7026; Gaz. vol. 160; p. 1195.

Bighouse, Henry H., assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Car-haul. No. 948,678; Feb. 8; Sp. p. 1907; Gaz. vol. 151; p. 327.

Bilbrey, William S., West Point, Ga. Air-brake. No. 952,299; Mar. 15; Sp. p. 3711; Gaz. vol. 152; p. 664.

Bilcsik, Josef, Budapest, Austria-Hungary. Shears for cutting profile and bar irons. No. 975,112; Nov. 8; Sp. p. 2349; Gaz. vol. 160; p. 382.

Bilgram, Hugo, Philadelphia, Pa. Cigarette-packing machine. No. 954,917; Apr. 12; Sp. p. 2693; Gaz. vol. 153; p. 455.

Bilgram, Hugo, Philadelphia, Pa., assignor to Comas Cigarette Machine Company, Salem, Va. Continuous-cigarette-cutting machine. No. 955,113; Apr. 12; Sp. p. 3046; Gaz. vol. 153; p. 517.

Bilisits, Desider, Jersey City, N. J. Fan attachment for rocking-chairs. No. 962,808; June 28; Sp. p. 5428; Gaz. vol. 155; p. 948.

Bill, George E., and A. D. Redman, Sr., Harrisburg, Pa. Sectional incandescent lamp. No. 955,748; Apr. 19; Sp. p. 4445; Gaz. vol. 153; p. 767.

Billau, Charles F., Cedar Rapids, Iowa. Weeder. No. 952,697; Mar. 22; Sp. p. 4560; Gaz. vol. 152; p. 829.

Billburg, Charles, Chicago, Ill. Trunk. No. 976,339; Nov. 22; Sp. p. 5004; Gaz. vol. 160; p. 849.

Billhime, Fred M., Espy, Pa. Car-seat. No. 971,822; Oct. 4; Sp. p. 648; Gaz. vol. 159; p. 114.

Billing, William, St. Boniface, Manitoba, Canada. Key-seating machine. No. 958,081; May 17; Sp. p. 3572; Gaz. vol. 154; p. 602.

Billings, Asa W. K., Habana, Cuba. Float combustion-indicator. No. 950,013; Feb. 22; Sp. p. 4749; Gaz. vol. 151; p. 839.

Billings, Asa W. K., Habana, Cuba. Electric pressure-ratio indicator. No. 965,274; July 26; Sp. p. 4901; Gaz. vol. 156; p. 846.

Billings, Asa W. K., Habana, Cuba. Firing indicator and recorder. No. 974,017; Oct. 25; Sp. p. 5462; Gaz. vol. 159; p. 947.

Billings, Earl R. and H. C., Milwaukee, Wis. Piano-flange. No. 949,875; Feb. 22; Sp. p. 4414; Gaz. vol. 151; p. 790.

Billings, Frank, Cleveland, Ohio. Undercutting in mines. No. 974,632; Nov. 1; Sp. p. 1263; Gaz. vol. 160; p. 194.

Billings, Frank W., Kansas City, Mo. Butter-pat-making device. No. 954,608; Apr. 12; Sp. p. 1949; Gaz. vol. 153; p. 345.

Billings, Frederick C., Milwaukee, Wis. Extension-bracket for piano-actions. No. 949,876; Feb. 22; Sp. p. 4415; Gaz. vol. 151; p. 790.

Billings, Henry C. (See Billings, Earl R. and H. C.)

Billingsley, Percy L., Oak, Fla. Dado-machine. No. 955,749; Apr. 19; Sp. p. 4447; Gaz. vol. 153; p. 767.

Billingsly, Maud M., Beaver Falls, Pa. Drinking-cup. No. 960,619; June 7; Sp. p. 786; Gaz. vol. 155; p. 128.

Billington, Charles, Attleboro, Mass. Eyeglass connection. No. 971,348; Sept. 27; Sp. p. 4682; Gaz. vol. 158; p. 819.

Billington, John E. (See Pearce, Herbert, assignor.)

Billington, John E. (See Pearce and Billington.)

Billington, John E. (See Woodroffe, Pearce, and Billington.)

Bills, Albert V., San Diego, Cal. Olive-grinding machine. No. 946,196; Jan. 11; Sp. p. 2610; Gaz. vol. 150; p. 433.

Billstone, Frank A., Findlay, Ohio. Nail or screw case. No. 971,965; Oct. 4; Sp. p. 1020; Gaz. vol. 159; p. 170.

Billy, Joseph F., Monessen, Pa. Car-door lock. No. 952,411; Mar. 15; Sp. p. 3921; Gaz. vol. 152; p. 702.

Billy, Joseph F., Monessen, Pa. Lock for milk-cans. No. 971,349; Sept. 27; Sp. p. 4684; Gaz. vol. 158; p. 819.

Bilsland, John C., Azusa, assignor of one-fourth to J. Mooney, Los Angeles, Cal. Hoe. No. 975,320; Nov. 8; Sp. p. 2805; Gaz. vol. 160; p. 453.

Bilyeu, Thomas, Portland, Oreg. Collapsible pile case or former. No. 967,879; Aug. 23; Sp. p. 4321; Gaz. vol. 157; p. 762.
Bilz, Gustav R., New York, assignor to R. Miller, Maspeth, N. Y. Sand-grinder. No. 948,129; Feb. 1; Sp. p. 719; Gaz. vol. 151; p. 118.
Bimm, Georges R., Paris, France. Dust-collecting apparatus. (Reissue.) No. 13,096; Mar. 22; Sp. p. 5225; Gaz. vol. 152; p. 936.
Binckley, William C., Jasper, Ind. Adjustable piano-bench. No. 974,018; Oct. 25; Sp. p. 5467; Gaz. vol. 159; p. 947.
Bindrup, Nephi, Logan, Utah. Rotary engine. No. 954,162; Apr. 5; Sp. p. 990; Gaz. vol. 153; p. 167.
Bindschedler, Theodore S., Detroit, Mich. Timing system. No. 964,743; July 19; Sp. p. 3829; Gaz. vol. 156; p. 637.
Bines, Robert. (See Wilson, David H., assignor.)
Bines, William H., assignor to The Watt Mining Car Wheel Company, Barnesville, Ohio. Journal-box for mining-cars. No. 948,003; Feb. 1; Sp. p. 464; Gaz. vol. 151; p. 75.
Binford, Jackson S., Brownwood, Tex. Device for displaying merchandise. No. 945,211; Jan. 4; Sp. p. 424; Gaz. vol. 150; p. 70.
Bingaman, Harvey. (See Miller and Bingaman.)
Bingenheimer, E. W. (See Fowler, Benjamin F., assignor.)
Binger, Charles, Saginaw, Mich. Combination screen and storm door. No. 950,654; Mar. 1; Sp. p. 414; Gaz. vol. 152; p. 66.
Binggeli, Gottlieb. (See Segesman and Binggeli.)
Bingham, Allen R., Fairhaven, Mass. Card attachment for mailing-receptacles. No. 948,202; Feb. 1; Sp. p. 866; Gaz. vol. 151; p. 142.
Bingham, Alvah L., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working machine. No. 971,587; Oct. 4; Sp. p. 163; Gaz. vol. 159; p. 30.
Bingham-Cameron Company. (See Bingham, George W., assignor.)
Bingham, George W., Brooklyn, N. Y., assignor to The Bingham Manufacturing Company. Kinetoscope-shutter. No. 960,793; June 7; Sp. p. 1119; Gaz. vol. 155; p. 187.
Bingham, George W., Brooklyn, N. Y., assignor to The Bingham Manufacturing Company. Kinetoscope. No. 960,794; June 7; Sp. p. 1122; Gaz. vol. 155; p. 188.
Bingham, George W., Brooklyn, N. Y., assignor to The Bingham Manufacturing Company. Kinetoscope. No. 963,740; July 12; Sp. p. 1584; Gaz. vol. 156; p. 266.
Bingham, George W., Brooklyn, N. Y., assignor to The Bingham Manufacturing Company. Moving-picture machine. No. 963,741; July 12; Sp. p. 1589; Gaz. vol. 156; p. 267.
Bingham, George W., Brooklyn, N. Y., assignor to Bingham-Cameron Company. Moving-picture machine. No. 971,588; Oct. 4; Sp. p. 167; Gaz. vol. 159; p. 31.
Bingham, George W., Brooklyn, N. Y., assignor to Bingham-Cameron Company. Moving-picture machine. No. 971,589; Oct. 4; Sp. p. 171; Gaz. vol. 159; p. 31.
Bingham, Floyd F., San Jose, Cal. Motor-cycle. No. 971,166; Sept. 27; Sp. p. 4311; Gaz. vol. 158; p. 758.
Bingham Manufacturing Company, The. (See Bingham, George W., assignor.)
Bingham, Robert O., assignor to Wagner Manufacturing Co., Sidney, Ohio. Waffle-iron. No. 950,090; Feb. 22; Sp. p. 4916; Gaz. vol. 151; p. 865.
Bingley, John W., Watertown, N. Y., assignor to New York Air Brake Company. Air-brake apparatus. No. 962,547; June 28; Sp. p. 4884; Gaz. vol. 155; p. 857.
Binion, William A., Lisbon, N. Y. Lightning-arrester. No. 947,692; Jan. 25; Sp. p. 5963; Gaz. vol. 150; p. 992.
Binks, Harry D., Chicago, Ill. Spraying-nozzle. No. 960,150; May 31; Sp. p. 8066; Gaz. vol. 154; p. 1356.
Binley, Arthur J., Glens Falls, N. Y. Flower-holder. No. 974,114; Nov. 1; Sp. p. 18; Gaz. vol. 160; p. 6.
Binns, William H. (See Pagendarm, John F., assignor.)
Bippart, Achill, Newark, N. J. Key-ring. No. 962,882; June 28; Sp. p. 5568; Gaz. vol. 155; p. 974.
Birch, Charles E. (See Birch, William M. and C. E.)
Birch, Frank C., Philadelphia, Pa. Radiator. No. 979,414; Dec. 27; Sp. p. 4311; Gaz. vol. 161; p. 765.
Birch, William M. and C. E., Crawfordsville, Ind. Wire-fence machine. No. 961,477; June 14; Sp. p. 2544; Gaz. vol. 155; p. 446.
Birchall, Benjamin H., Baltimore, Md., assignor of one-half to H. L. Troxell, Philadelphia, Pa. Shoe-rack. No. 957,839; May 10; Sp. p. 2827; Gaz. vol. 154; p. 485.
Bircher, Eugene A., assignor to S. H. Kendall, Rochester, N. Y. Film-winder. No. 960,795; June 7; Sp. p. 1126; Gaz. vol. 155; p. 188.
Bird, Fred E., Granger, Tex. Clothes-drier. No. 955,576; Apr. 19; Sp. p. 4035; Gaz. vol. 153; p. 708.
Bird, James P., Plainfield, N. J. Box-ending machine. No. 964,200; July 12; Sp. p. 2552; Gaz. vol. 156; p. 421.
Bird, James P., Worcester, Mass. Machine for attaching fly-strips to boxes. No. 966,422; Aug. 9; Sp. p. 1199; Gaz. vol. 157; p. 218.
Bird, James W., St. Louis, Mo. Fuse-box. No. 968,318; Aug. 23; Sp. p. 5295; Gaz. vol. 157; p. 913.
Bird, John W. A., Muncie, Ind. Wagon-body. No. 953,509; Mar. 29; Sp. p. 6311; Gaz. vol. 152; p. 1131.
Birdsall, Leo S., Elm Hall, Mich. Detachable umbrella-cover. No. 975,203; Nov. 8; Sp. p. 2557; Gaz. vol. 160; p. 413.
Birdsey, Somers Company. (See Doolittle, James E., assignor.)
Birdwell, J. W., *et al.* (See Rowe, Sidney M., assignor.)
Birdwell, Russell J., assignor to Portable Mirror Company, Weatherford, Tex. Portable bracket. No. 956,032; Apr. 26; Sp. p. 5066; Gaz. vol. 153; p. 896.
Birdwell, Russell J., assignor to Portable Mirror Company, Weatherford, Tex. Body-supported bracket. No. 956,274; Apr. 26; Sp. p. 5616; Gaz. vol. 153; p. 979.
Birkeland, Kristian, Christiania, Norway. Utilizing nitrous gases. No. 948,158; Feb. 1; Sp. p. 780; Gaz. vol. 151; p. 128.
Birkenkamp, Henry J., Toledo, Ohio. Embalming instrument. No. 945,741; Jan. 11; Sp. p. 1621; Gaz. vol. 150; p. 274.
Birkenstock, Pierre, L'Arbresle, France. Manufacture of batting and yarn of ramie. No. 949,643; Feb. 15; Sp. p. 3884; Gaz. vol. 151; p. 676.
Birnbaum, Henry, Rapid City, S. D. Sheet-metal pipe. No. 976,029; Nov. 15; Sp. p. 4248; Gaz. vol. 160; p. 720.
Birney, Charles O., St. Louis, Mo., assignor to The Pay-As-You-Enter Car Corporation, Jersey City, N. J. Street-car. No. 949,877; Feb. 22; Sp. p. 4417; Gaz. vol. 151; p. 790.
Birney, Charles O., St. Louis, Mo., assignor to The Pay-As-You-Enter Car Corporation, Jersey City, N. J. Street-car. No. 949,878; Feb. 22; Sp. p. 4420; Gaz. vol. 151; p. 791.
Biró, Albert, Lynn, Mass. Lunch-box. No. 954,918; Apr. 12; Sp. p. 2694; Gaz. vol. 153; p. 455.
Biro, Joseph, Hooversville, Pa. Folding box and crate. No. 977,263; Nov. 29; Sp. p. 7027; Gaz. vol. 160; p. 1195.
Birsfield, Jules A., Rochester, N. Y., assignor to C. A. Brown and L. A. Williams, Chicago, Ill. Electrical protective apparatus. No. 970,169; Sept. 13; Sp. p. 2190; Gaz. vol. 158; p. 373.
Birsner, John N., Belleville, Ill. Drain attachment for wash-tubs. No. 952,180; Mar. 15; Sp. p. 3462; Gaz. vol. 152; p. 623.
Birtwhistle, Frederick S., Troy, N. H. Wall or switch box. No. 965,275; July 26; Sp. p. 4905; Gaz. vol. 156; p. 846.
Bisbee, Chauncey A., Seattle, Wash. Car-fender. No. 955,495; Apr. 19; Sp. p. 3882; Gaz. vol. 153; p. 682.
Bisbing, Harry E. (See Conway and Bisbing.)
Bischof, Joseph, Boston, Mass. Garment-presser. No. 957,141; May 3; Sp. p. 1362; Gaz. vol. 154; p. 218.
Biser, Charles E., Selma, and W. W. and J. E. McCrae, Birmingham, Ala. Rail-joint. No. 955,750; Apr. 19; Sp. p. 4451; Gaz. vol. 153; p. 768.
Bishop, Alvin C., Granville, Ohio. Burial-vault. No. 949,790; Feb. 22; Sp. p. 4204; Gaz. vol. 151; p. 759.
Bishop, Arete C., East Cleveland, Ohio. Type-cleaner. No. 955,939; Apr. 26; Sp. p. 4872; Gaz. vol. 153; p. 862.
Bishop & Babcock Company, The. (See Champ, Joseph H., assignor.)
Bishop & Babcock Company, The. (See Champ and Schutt, assignors.)
Bishop & Babcock Company, The. (See Schutt, Theodore H., assignor.)
Bishop & Babcock Company. (See Sebring, James A., assignor.)
Bishop, Brenton D., Boston, Mass. Supplemental spring for automobiles. No. 956,033; Apr. 26; Sp. p. 5068; Gaz. vol. 153; p. 896.
Bishop, Charles B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door closer and check. No. 956,275; Apr. 26; Sp. p. 5617; Gaz. vol. 153; p. 980.
Bishop, Charles C., St. Louis, Mo. Window provision-box. No. 974,852; Nov. 8; Sp. p. 1752; Gaz. vol. 160; p. 292.
Bishop, Chester S., Springfield, Mo. Portable sawing-machine. No. 968,114; Aug. 23; Sp. p. 4845; Gaz. vol. 157; p. 841.
Bishop, Columbus H., El Reno, assignor of one-half to H. A. White, Hinton, Okla. Saw-set. No. 978,686; Dec. 13; Sp. p. 2748; Gaz. vol. 161; p. 468.
Bishop & Co., George H. (See Wuest, Frederick A., assignor.)
Bishop Company, The. (See Bishop, Frederick R., assignor.)
Bishop, Elmer G., Gorham, N. D. Subsoiler. No. 953,893; Apr. 5; Sp. p. 414; Gaz. vol. 153; p. 75.
Bishop, Elmer W., Sedro Woolley, Wash. Can-opener. No. 970,170; Sept. 13; Sp. p. 2195; Gaz. vol. 158; p. 373.
Bishop, Erastus A., Wallowa, Oreg. Spark-arrester. No. 971,823; Oct. 4; Sp. p. 649; Gaz. vol. 159; p. 114.
Bishop, Frank. (See Emerson and Bishop.)
Bishop, Frank, assignor of one-half to R. W. Emerson, South Bend, Ind. Refrigerant receiver and expander for refrigerating plants. No. 952,063; Mar. 15; Sp. p. 3250; Gaz. vol. 152; p. 585.
Bishop, Frederick R., assignor to The Bishop Company, North Attleboro, Mass. Eyeglass-holder. No. 969,129; Aug. 30; Sp. p. 6999; Gaz. vol. 157; p. 1217.

Alphabetical list of patentees—Continued.

Bishop, Harry J., Riverside, and J. K. Delano, Jr., Chicago, Ill., assignors, by mesne assignments, to The Kinley Manufacturing Company. Lighting system for self-propelled vehicles. No. 953,584; Mar. 29; Sp. p. 6473; Gaz. vol. 152; p. 1157.
Bishop, J. W., *et al.* (See Rowe, Sidney M., assignor.)
Bishop, Lawrence R., Rowley, Mass. Guard-rail mounting. No. 954,919; Apr. 12; Sp. p. 2695; Gaz. vol. 153; p. 455.
Bishop, Mary F., Boston, Mass. Hot-water heating device. No. 979,415; Dec. 27; Sp. p. 4312; Gaz. vol. 161; p. 765.
Bishop, Samuel, Dobbins, Cal. Sight for guns. No. 968,115; Aug. 23; Sp. p. 4847; Gaz. vol. 157; p. 841.
Bishop, Simeon. (See Klint, Anton H., assignor.)
Bishop, Stephen W., Williston, Fla. Car step and platform. No. 977,504; Dec. 6; Sp. p. 178; Gaz. vol. 161; p. 29.
Bishop, William, Grand Valley, Ontario, Canada. Coupling for hay-loaders. No. 950,987; Mar. 1; Sp. p. 1091; Gaz. vol. 152; p. 175.
Bishop, William L. (See Mason, Benjamin F., assignor.)
Bishop, William T., Mankato, Kans. Hay-baler. No. 960,796; June 7; Sp. p. 1127; Gaz. vol. 155; p. 188.
Biskamp, Richard A., Jasper, Tex. Chain-fastener. No. 955,842; Apr. 26; Sp. p. 4656; Gaz. vol. 153; p. 829.
Bispham, Fred R., Bemidji, Minn. Gage-glass. No. 976,030; Nov. 15; Sp. p. 4249; Gaz. vol. 160; p. 721.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electrical coupling. No. 974,462; Nov. 1; Sp. p. 890; Gaz. vol. 160; p. 131.
Bissell, Charles E. (See Wolfe, Bissell, and Branstetter.)
Bissell, Melville R. (See Stow, William H., assignor.)
Bissell, Percy R., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Metal-scraping machine. No. 953,117; Mar. 29; Sp. p. 5465; Gaz. vol. 152; p. 998.
Bissell, Percy R., assignor to The Waterbury Farrell Foundry and Machine Company, Waterbury, Conn. Metal-scraping machine. No. 957,031; May 3; Sp. p. 1151; Gaz. vol. 154; p. 182.
Biswell, William H., Fayette, Mo. Coffin-mold. No. 973,910; Oct. 25; Sp. p. 5243; Gaz. vol. 159; p. 909.
Bitner, Charles W., Oaxaca, Mexico. Car-door-locking device. No. 975,113; Nov. 8; Sp. p. 2350; Gaz. vol. 160; p. 382.
Bitting, Benjamin L., Rural Hall, N. C. Door-releasing apparatus. No. 961,578; June 14; Sp. p. 2764; Gaz. vol. 155; p. 479.
Bittle, John A., Cressona, Pa. Potato cleaning and assorting machine. No. 948,842; Feb. 8; Sp. p. 2253; Gaz. vol. 151; p. 382.
Bittlinger, Harry F., and J. J. Ennis, Covington, Ky. Receiving and delivering apparatus for use with traveling vehicles. No. 968,639; Aug. 30; Sp. p. 5962; Gaz. vol. 157; p. 1050.
Bitzer, Gottlob, Dusseldorf, Germany. Tool for pointing nails and similar articles. No. 969,242; Sept. 6; Sp. p. 202; Gaz. vol. 158; p. 33.
Bivalve Company, The. (See Webb, Joseph, assignor.)
Bixby, John L., Jr. (See Tolman and Bixby.)
Bixel, August L., Cleveland, Ohio. Discharge-nozzle and independent cut-off valve for fire-hydrants. No. 960,620; June 7; Sp. p. 787; Gaz. vol. 155; p. 128.
Bjelland, Erik, Stavanger, Norway. Seaming sheet-metal cans and opening device for the same. No. 949,210; Feb. 15; Sp. p. 2993; Gaz. vol. 151; p. 531.
Bjork, David T., and H. S. Willis, Chicago, Ill. Ash-receptacle. No. 947,785; Feb. 1; Sp. p. 17; Gaz. vol. 151; p. 5.
Björk, Per J., New York, N. Y. Spike-puller. No. 960,621; June 7; Sp. p. 788; Gaz. vol. 155; p. 129.
Bjorklund, Charley, Bowesmont, assignor of one-third to H. M. Waldren and one-third to J. V. Anderson, Drayton, N. D. Basket attachment for barrel-trucks. No. 957,406; May 10; Sp. p. 1964; Gaz. vol. 154; p. 339.
Bjorklund, Charley, Bowesmont, assignor of one-third to H. M. Waldren and one-third to J. V. Anderson, Drayton, N. D. Barrel-truck. No. 957,840; May 10; Sp. p. 2828; Gaz. vol. 154; p. 485.
Bjorklund, John, Hartford, Conn. Non-refillable bottle. No. 946,954; Jan. 18; Sp. p. 4363; Gaz. vol. 150; p. 717.
Bjorklund, Nils D., Manchester, N. H. Lantern-holder. No. 970,171; Sept. 13; Sp. p. 2197; Gaz. vol. 158; p. 373.
Bjornlie, Julius, Elkton, S. D. Belt reel and guide for threshing-machines. No. 950,462; Feb. 22; Sp. p. 5641; Gaz. vol. 151; p. 989.
Bjornseth, Jacob J., Ackworth, N. D. Fish-spear. No. 964,375; July 12; Sp. p. 2903; Gaz. vol. 156; p. 479.
Bjornstad, Andrew, Chippewa Falls, Wis. Mattress. No. 948,644; Feb. 8; Sp. p. 1836; Gaz. vol. 151; p. 316.
Bjur, William L., New York, N. Y. Piano. No. 966,789; Aug. 9; Sp. p. 2074; Gaz. vol. 157; p. 345.
Blacher, Leopold, and S. Sztencel, Campina, Roumania. Concentrating and purifying sludge-acid. No. 956,276; Apr. 26; Sp. p. 5620; Gaz. vol. 153; p. 980.
Black, Archie L., Oakland, Cal. Tobacco-pipe. No. 953,585; Mar. 29; Sp. p. 6475; Gaz. vol. 152; p. 1157.
Black, Burton, Orcutt, Cal. Pump. No. 980,050; Dec. 27; Sp. p. 5688; Gaz. vol. 161; p. 979.
Black, E. F., *et al.* (See Sexton, James L., assignor.)
Black, Frank G., Fairfield, Ill. Harness attachment. No. 976,719; Nov. 22; Sp. p. 5791; Gaz. vol. 160; p. 980.
Black, George A., *et al.* (See Meyer, Albert T., assignor.)
Black, Gerard G., *et al.* (See Meyer, Albert T., assignor.)
Black, Hancey L., Central, N. Mex. Concentrator. No. 956,034; Apr. 26; Sp. p. 5069; Gaz. vol. 153; p. 896.
Black, Henry C., San Francisco, Cal. Can-making machinery. No. 950,742; Mar. 1; Sp. p. 606; Gaz. vol. 152; p. 96.
Black, John C., assignor to Standard Oil Company, Richmond, Cal. Refining petroleum. No. 968,640; Aug. 30; Sp. p. 5969; Gaz. vol. 157; p. 1051.
Black, Lee J. (See Greeves and Black.)
Black, Oliver C., Dayton, Ohio. Stock-breeding box. No. 952,500; Mar. 22; Sp. p. 4124; Gaz. vol. 152; p. 759.
Black, Raymond E. (See Cole, Charles C., assignor.)
Black, Robert, Pleasantville, N. Y., assignor to The Dressel Railway Lamp Works. Signal-lamp. No. 967,161; Aug. 16; Sp. p. 2869; Gaz. vol. 157; p. 497.
Black, Samuel J., Meadowdale, Wash. Tree-felling device. No. 962,116; June 21; Sp. p. 3931; Gaz. vol. 155; p. 685.
Black Sand and Gold Recovery Co. (See Lovett, Thomas J., assignor.)
Black Sand Mining Company. (See Hoyt, Ezra S., assignor.)
Black, William M., and A. P. Morris, New York, N. Y. Lettering device. No. 946,197; Jan. 11; Sp. p. 2611; Gaz. vol. 150; p. 434.
Blackburn, Charles W., Rock Falls, Ill. Watering-tank heater. No. 950,066; Feb. 22; Sp. p. 4866; Gaz. vol. 151; p. 856.
Blackburn, Ernest C., and J. Michal, Jr., assignors of one-fourth to W. D. Murray, Goldfield, Nev. Handle. No. 978,816; Dec. 13; Sp. p. 2996; Gaz. vol. 161; p. 508.
Blackburn, J. F., *et al.* (See Lee, Isaac E., assignor.)
Blackburn, Jasper, Kirkwood, Mo. Insulator-clamp. No. 945,212; Jan. 4; Sp. p. 425; Gaz. vol. 150; p. 71.
Blackburn, Jasper, Kirkwood, Mo. Insulator-clamp. No. 945,213; Jan. 4; Sp. p. 427; Gaz. vol. 150; p. 71.
Blackburn, Jasper, Kirkwood, Mo. Car-fender. No. 956,470; Apr. 26; Sp. p. 6032; Gaz. vol. 153; p. 1046.
Blackburn, Jasper, Kirkwood, Mo. Insulator-support. No. 964,376; July 12; Sp. p. 2904; Gaz. vol. 156; p. 480.
Blackburn, William K., Milwaukee, Wis. Friction-gearing. No. 969,448; Sept. 6; Sp. p. 623; Gaz. vol. 158; p. 99.
Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gasolene-burner. No. 952,412; Mar. 15; Sp. p. 3923; Gaz. vol. 152; p. 702.
Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Wick blue-flame burner. No. 952,870; Mar. 22; Sp. p. 4931; Gaz. vol. 152; p. 887.
Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gasolene-stove. No. 972,051; Oct. 4; Sp. p. 1180; Gaz. vol. 159; p. 199.
Blackhall, George, Toronto, Ontario, Canada. Thermo-electric fire-alarm. No. 954,373; Apr. 5; Sp. p. 1431; Gaz. vol. 153; p. 238.
Blackman, Albert E., Mount Vernon, N. Y. Sheet-metal box. No. 963,352; July 5; Sp. p. 779; Gaz. vol. 156; p. 114.
Blackman, Carl R., Colorado Springs, Colo. Headlight. No. 959,700; May 31; Sp. p. 7076; Gaz. vol. 154; p. 1201.
Blackman, Charles M., assignor to The S. H. Wetmore Company, New York, N. Y. Display-box. No. 959,701; May 31; Sp. p. 7078; Gaz. vol. 154; p. 1201.
Blackman, Charles W., assignor to Parish & Bingham Company, Cleveland, Ohio. Gear case and housing for automobiles. No. 961,097; June 14; Sp. p. 1736; Gaz. vol. 155; p. 315.
Blackman, Elmer E., Lincoln, Nebr. Composition of matter. No. 972,801; Oct. 18; Sp. p. 2799; Gaz. vol. 159; p. 500.
Blackman, James B. (See Barton, Charles N., assignor.)
Blackmond, William C., Tomball, and G. E. Stoy, Teague, Tex. Oil-burner. No. 962,301; June 21; Sp. p. 4329; Gaz. vol. 155; p. 747.
Blackmore, Henry S., Mount Vernon, assignor to R. E. Robinson and D. C. Spruance, trustees, New York, N. Y. Making ammonia, alkyl ammonia, or ammonia bases. No. 974,633; Nov. 1; Sp. p. 1265; Gaz. vol. 160; p. 195.
Blackmore, Henry S., Mount Vernon, assignor to R. E. Robinson and D. C. Spruance, trustees, New York, N. Y. Making ammonia or other nitrogen-hydrogen binary compounds. No. 974,741; Nov. 1; Sp. p. 1498; Gaz. vol. 160; p. 231.
Blackmore, Henry S., Mount Vernon, assignor to R. E. Robinson and D. C. Spruance, trustees, New York, N. Y. Making ammonia, alkyl ammonia, or ammonia bases. No. 974,742; Nov. 1; Sp. p. 1503; Gaz. vol. 160; p. 231.
Blackmore, Lawrence R., Arlington, N. J. Vise. No. 968,444; Aug. 23; Sp. p. 5539; Gaz. vol. 157; p. 956.
Blackmore, Lawrence R., Arlington, N. J. Apparatus for making glass tiling. No. 972,433; Oct. 11; Sp. p. 1982; Gaz. vol. 159; p. 348.
Blackmore, Lawrence R., McKeesport, Pa. Pipe-wrench. No. 974,019; Oct. 25; Sp. p. 5468; Gaz. vol. 159; p. 948.
Blackmore, Lawrence R., McKeesport, Pa. Pipe-wrench. No. 974,020; Oct. 25; Sp. p. 5469; Gaz. vol. 159; p. 948.

Alphabetical list of patentees—Continued.

Blackstone, Robert D., Muskogee, Okla. Trolley-harp. No. 970,981; Sept. 20; Sp. p. 3920; Gaz. vol. 158; p. 670.

Blackwell, Edwin O., Wynyard, Tasmania, Australia. Pea-thresher. No. 948,130; Feb. 1; Sp. p. 720; Gaz. vol. 151; p. 118.

Blackwell, Henry F., New York, N. Y., assignor to International Electric Protection Company. Water-motor. No. 977,264; Nov. 29; Sp. p. 7028; Gaz. vol. 160; p. 1195.

Blackwell, Thomas M., Basic City, Va. Device for opening and closing doors. No. 955,125; Apr. 19; Sp. p. 3083; Gaz. vol. 153; p. 554.

Blackwell, William L., Dayton, Ohio. Water-heater. No. 971,167; Sept. 27; Sp. p. 4324; Gaz. vol. 158; p. 759.

Blackwell, William L., assignor to The Cooper Heater Co., Dayton, Ohio. Water-heater. No. 945,214; Jan. 4; Sp. p. 428; Gaz. vol. 150; p. 71.

Bladh, Sven G., Karlskrona, Sweden. Wick-lamp for solid combustibles. No. 967,162; Aug. 16; Sp. p. 2870; Gaz. vol. 157; p. 497.

Blaeker, Joseph, New York, N. Y. Rotary turbine-engine. No. 974,634; Nov. 1; Sp. p. 1271; Gaz. vol. 160; p. 195.

Blagg, Samuel, Erie, Ill. Beehive attachment. No. 964,744; July 19; Sp. p. 3830; Gaz. vol. 156; p. 637.

Blagg, Samuel, Erie, Ill. Beehive attachment. No. 976,031; Nov. 15; Sp. p. 4250; Gaz. vol. 160; p. 721.

Blaha, Anton, assignor of one-half to T. O. Sands, Portland, Oreg. Locking means for joints of stovepipes. No. 968,506; Aug. 23; Sp. p. 5674; Gaz. vol. 157; p. 977.

Blaik, John R., Montreal, Quebec, Canada. Smoke-consumer. No. 975,391; Nov. 15; Sp. p. 2957; Gaz. vol. 160; p. 502.

Blaikley, David, Partick, Glasgow, Scotland. Planchette game apparatus. No. 969,935; Sept. 13; Sp. p. 1705; Gaz. vol. 158; p. 294.

Blaine, George E., Indianapolis, Ind. Harrow-tooth and tooth-bar fastening. No. 978,687; Dec. 13; Sp. p. 2749; Gaz. vol. 161; p. 468.

Blair Atholl Aeroplane Syndicate. (See Dunne, John W., assignor.)

Blair, Benjamin L., Dryden, Ontario, Canada. Machine for making cement blocks. No. 951,099; Mar. 8; Sp. p. 1294; Gaz. vol. 152; p. 237.

Blair, Bert E., Barre, Vt. Scale. No. 959,837; May 31; Sp. p. 7373; Gaz. vol. 154; p. 1248.

Blair, Charles W. (See Holland, Curtis, assignor.)

Blair, David W., New York, N. Y. Centrifugal pump. No. 976,340; Nov. 22; Sp. p. 5005; Gaz. vol. 160; p. 849.

Blair, David W., Perth Amboy, N. J., and F. L. Antisell, New York, N. Y. Casting apparatus. No. 951,299; Mar. 8; Sp. p. 1694; Gaz. vol. 152; p. 300.

Blair, Frank E., Methuen, Mass. Counter-guard for heel-trimming machines. No. 972,151; Oct. 11; Sp. p. 1398; Gaz. vol. 159; p. 251.

Blair, Frank O., Fort Scott, Kans. Railway-tie. No. 957,841; May 10; Sp. p. 2830; Gaz. vol. 154; p. 486.

Blair, George W., assignor of four-tenths to F. G. Wallace, Pittsburg, one-tenth to C. E. Voitle and one-tenth to J. D. Johnston, Jeannette, Pa. Manufacture of glass tiles and similar articles. No. 959,423; May 24; Sp. p. 6464; Gaz. vol. 154; p. 1083.

Blair, James, St. Benedict, Pa. Mining-car. No. 959,294; May 24; Sp. p. 6225; Gaz. vol. 154; p. 1040.

Blair, James H., Quebec, Quebec, Canada. Cleaning-rod for firearms. No. 962,883; June 28; Sp. p. 5570; Gaz. vol. 155; p. 974.

Blair, James L., Butler, Pa. Trolley safety-lock. No 966,301; Aug. 2; Sp. p. 961; Gaz. vol. 157; p. 153.

Blair, John T., Tulsa, Okla. Square or gaging device. No. 945,684; Jan. 4; Sp. p. 1446; Gaz. vol. 150; p. 226.

Blair, Nelson M., New Orleans, La. Proportional scale. No. 946,483; Jan. 11; Sp. p. 3324; Gaz. vol. 150; p. 534.

Blair, Oliver C., Houston, Tex. Automatic train-pipe coupling. No. 955,045; Apr. 12; Sp. p. 2935; Gaz. vol. 153; p. 497.

Blair, William E., Bay City, Mich. Engine. No. 960,797; June 7; Sp. p. 1129; Gaz. vol. 155; p. 189.

Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Thread take-up for sewing-machines. No. 978,832; Dec. 20; Sp. p. 3034; Gaz. vol. 161; p. 540.

Blaisdell Paper Pencil Company. (See Smith, Charles A., assignor.)

Blaisdell, Walter F., *et al.* (See Greene, Howard, assignor.)

Blake, Charles A., Roanoke, Va. Supporting-band for trousers and other garments. No. 954,849; Apr. 12; Sp. p. 2529; Gaz. vol. 153; p. 432.

Blake, Charles C., Brookline, Mass. Rod-supporting device. No. 958,219; May 17; Sp. p. 3846; Gaz. vol. 154; p. 650.

Blake, Charles R., Richmond, Cal. Sanitary car-toilet. No. 966,158; Aug 2; Sp. p. 686; Gaz. vol. 157; p. 107.

Blake, Clinton F., Chicago, Ill. Dump-car. No. 966,075; Aug. 2; Sp. p. 498; Gaz. vol. 157; p. 80.

Blake Crusher and Pulverizer Company. (See Blake, John E., assignor.)

Blake, George E., Quincy, Ind. Tire-shrinker. No. 960,798; June 7; Sp. p. 1130; Gaz. vol. 155; p. 189.

Blake, Henry W., Ball Ground, Ga. Car-truck. No. 976,843; Nov. 29; Sp. p. 6076; Gaz. vol. 160; p. 1047.

Blake, Henry W., Ball Ground, Ga. Brake mechanism for car-trucks. No. 976,844; Nov. 29; Sp. p. 6083; Gaz. vol. 160; p. 1048.

Blake, Henry W., Ball Ground, Ga. Equalizing mechanism for cars. No. 976,845; Nov. 29; Sp. p. 6087; Gaz. vol. 160; p. 1048.

Blake, Jesse E. (See Lucke and Blake.)

Blake, John, *et al.* (See Bulley, Albert, assignor.)

Blake, John E., assignor to Blake Crusher and Pulverizer Company, Pittsburg, Pa. Reduction-machine. No. 963,353; July 5; Sp. p. 780; Gaz. vol. 156; p. 115.

Blake, John H., Godwin, N. C. Weeding and pruning implement. No. 946,322; Jan. 11; Sp. p. 2888; Gaz. vol. 150; p. 479.

Blake, Joseph M., Meadville, Pa. Fastener for railway-rails. No. 974,635; Nov. 1; Sp. p. 1274; Gaz. vol. 160; p. 195.

Blake, Lucien I., Boston, Mass. Ore-concentrator. No. 964,083; July 12; Sp. p. 2327; Gaz. vol. 156; p. 383.

Blake, Matthiew B., Little Falls, Minn. Combined lid and lifting device. No 977,430; Dec. 6; Sp. p. 9; Gaz. vol. 161; p. 4.

Blake Mining and Milling Company, The. (See Swart, Walter G., assignor.)

Blake, Onesimus W., Denver, Colo. Gum-box. No. 969,329; Sept. 6; Sp. p. 374; Gaz. vol. 158; p. 61.

Blake, Philip W., assignor to F. S. Anable, Boston, Mass. Adhesive substance and preparing the same. No. 969,449; Sept. 6; Sp. p. 625; Gaz. vol. 158; p. 100.

Blake, Thomas W., Dragon, Utah. Mining gilsonite. No. 950,363; Feb. 22; Sp. p. 5456; Gaz. vol. 151; p. 957.

Blake, Washington L., Fitchburg, Mass. Hammer. No. 974,021; Oct. 25; Sp. p. 5471; Gaz. vol. 159; p. 948.

Blakely, Clarence R. (See Shipley, Henry T., assignor.)

Blakemore, James W., Barnsboro, N. J., assignor to T. J. Berkstresser, Philadelphia, Pa. Operating-lever for low-down flush-tanks. No. 963,855; July 12; Sp. p. 1855; Gaz. vol. 156; p. 305.

Blaker, James L., Blaker Mills, W. Va. Dumping-car. No. 965,795; July 26; Sp. p. 6052; Gaz. vol. 156; p. 1026.

Blakeslee, Henry J., Syracuse, N. Y. Electrical testing apparatus. No. 950,714; Mar. 1; Sp. p. 551; Gaz. vol. 152; p. 86.

Blakeslee, Henry J., Utica, N. Y. Electrical distributing-board. No. 955,126; Apr. 19; Sp. p. 3085; Gaz. vol. 153; p. 554.

Blakeslee, Merton D., Cazenovia, N. Y. Mechanical can-roller. No. 945,685; Jan. 4; Sp. p. 1448; Gaz. vol. 150; p. 226.

Blakley, Charles I., Lamont, Okla. Band-cutter and feeder. No. 963,270; July 5; Sp. p. 623; Gaz. vol. 156; p. 87.

Blakoe, Robert, Glasgow, Scotland. Device for developing and strengthening the muscles of the body and arms. No. 964,745; July 19; Sp. p. 3831; Gaz. vol. 156; p. 638.

Blalock, Alonzo L., Madison, Fla. Auto-wheel. No. 969,593; Sept. 6; Sp. p. 956; Gaz. vol. 158; p. 151.

Blanc Stainless Cement Company. (See Carreré, Joseph M., assignor.)

Blancard & Company. (See Mountford, Thomas, assignor.)

Blanch, Malcolm. (See Quist and Blanch.)

Blanchard, Alfred L. (See Blanchard, Frederick A., assignor.)

Blanchard, Edward W., New York, N. Y. Grate-bar. No. 951,797; Mar. 15; Sp. p. 2721; Gaz. vol. 152; p. 497.

Blanchard, Frederick A. assignor of one-half to A. L. Blanchard, Norfolk Downs, Mass. Tire-repair-vulcanizing device. No. 966,302; Aug. 2; Sp. p. 963; Gaz. vol. 157; p. 154.

Blanchard, Frederick C. (See Field, Lanning, Hathaway, and Blanchard.)

Blanchard, Frederick C., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Piston. No. 949,993; Feb. 22; Sp. p. 4706; Gaz. vol. 151; p. 831.

Blanchard, Frederick C., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Combination drill and valve-grinder. No. 963,986; July 12; Sp. p. 2130; Gaz. vol. 156; p. 348.

Blanchard, Frederick C., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Gage. No. 978,833; Dec. 20; Sp. p. 3035; Gaz. vol. 161; p. 540.

Blanchard, Frederick C., and E. B. Crocker, assignors to The Ashcroft Manufacturing Company, Bridgeport, Conn. Pipe-union. No. 959,702; May 31; Sp. p. 7079; Gaz. vol. 154; p. 1202.

Blanchard, Frederick C., E. B. Crocker, and P. G. Darling, assignors to Ashcroft Manufacturing Company, Bridgeport, Conn. Planimeter. No. 961,836; June 21; Sp. p. 3308; Gaz. vol. 155; p. 590.

Blanchard, Frederick G., assignor to American Optical Company, Southbridge, Mass. Trial-frame for bifocal glasses. No. 949,109; Feb. 15; Sp. p. 2801; Gaz. vol. 151; p. 496.

Blanchard, Frederick K., New Rochelle, N. Y. Neckwear. No. 954,017; Apr. 5; Sp. p. 661; Gaz. vol. 153; p. 118.

Blanchard, George L., Yoakum, Tex. Float for linters. No. 947,367; Jan. 25; Sp. p. 5266; Gaz. vol. 150; p. 885.

Alphabetical list of patentees—Continued.

Blanchard, George L., Montgomery, Ala. Apparatus for removing fiber from cotton-seed. No. 973,159; Oct. 18; Sp. p. 3638; Gaz. vol. 159; p. 626.
Blanchard, George P., Athens, Ga. Spectacles. No. 978,982; Dec. 20; Sp. p. 3378; Gaz. vol. 161; p. 594.
Blanchard, Harry E. (See Thompson, Albert W., assignor.)
Blanchard, Kirk S., Philadelphia, Pa. Press. No. 975,204; Nov. 8; Sp. p. 2558; Gaz. vol. 160; p. 414.
Blanchard, Leon E., assignor to Reliance Speedmeter Co., Boston, Mass. Speedometer. No. 950,833; Mar. 1; Sp. p. 799; Gaz. vol. 152; p. 127.
Blanchard, Leon E., assignor to Reliance Speed-Meter Company, Boston, Mass. Speedometer. No. 961,676; June 14; Sp. p. 2965; Gaz. vol. 155; p. 513.
Blanchard, Maurice, Wardner, Idaho. Furnace. No. 970,417; Sept. 13; Sp. p. 2698; Gaz. vol. 158; p. 456.
Blanchard, Samuel B., Grand Rapids, D. B. Uhl, Grandville, and F. W. Koch, Grand Rapids, Mich.; said Uhl and said Koch assignors to D. K. Ide. Guard for cutting-machines. No. 956,564; May 3; Sp. p. 118; Gaz. vol. 154; p. 22.
Blanchard, William, New Orleans, La. Submerged bridge. No. 949,791; Feb. 22; Sp. p. 4205; Gaz. vol. 151; p. 759.
Blancke, Martin H., Merseburg, Germany. Semi-automatic turret-lathe. No. 962,000; June 21; Sp. p. 3663; Gaz. vol. 155; p. 644.
Bland, Louis, Chicago, Ill. Adjustable display-card holder. No. 958,082; May 17; Sp. p. 3574; Gaz. vol. 154; p. 602.
Bland, Mortimer A., Charlotte, N. C. Bobbin. No. 956,277; Apr. 26; Sp. p. 5620; Gaz. vol. 153; p. 980.
Blandford, George M., Boston, Mass. Garment-hanger support. No. 954,920; Apr. 12; Sp. p. 2696; Gaz. vol. 153; p. 456.
Blanding, Forrest H., Chicago, Ill., assignor to Allis-Chalmers Company, Milwaukee, Wis. Spacing device for punching-tables. No. 965,433; July 26; Sp. p. 5255; Gaz. vol. 156; p. 899.
Blank, August, and W. Rodionow, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow to brown dye. No. 951,046; Mar. 1; Sp. p. 1185; Gaz. vol. 152; p. 194.
Blank, August, and W. Rodionow, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow to brown dye. No. 951,047; Mar. 1; Sp. p. 1186; Gaz. vol. 152; p. 194.
Blank, August, and W. Rodionow, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Orange to brown dye. No. 951,048; Mar. 1; Sp. p. 1187; Gaz. vol. 152; p. 194.
Blank, August, and W. Rodionow, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Reddish-brown cotton dye. No. 951,049; Mar. 1; Sp. p. 1187; Gaz. vol. 152; p. 194.
Blank, August, and K. Heusner, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 969,450; Sept. 6; Sp. p. 627; Gaz. vol. 158; p. 100.
Blank, August, and W. Bergdolt, Leverkusen, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Trisazo dye. No. 971,111; Sept. 27; Sp. p. 4197; Gaz. vol. 158; p. 741.
Blank, August, and W. Bergdolt, Leverkusen, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Trisazo dye. No. 971,112; Sept. 27; Sp. p. 4198; Gaz. vol. 158; p. 741.
Blank, George, Burlington, Iowa. Float. No. 958,581; May 17; Sp. p. 4720; Gaz. vol. 154; p. 775.
Blank, George W., Wilkinsburg, Pa. Flag-holder. No. 975,114; Nov. 8; Sp. p. 2351; Gaz. vol. 160; p. 382.
Blankenhagen, Herman G., Chicago, Ill. Match-holder. No. 958,690; May 17; Sp. p. 4930; Gaz. vol. 154; p. 809.
Blasdell, William T., Chicago, Ill. Clasp. No. 957,488; May 10; Sp. p. 2115; Gaz. vol. 154; p. 367.
Blasius, Oscar. (See Wuest, Philip, Jr., assignor.)
Blass, Walter, Essen, Germany. Air-filter. No. 964,377; July 12; Sp. p. 2905; Gaz. vol. 156; p. 480.
Blaszczyk, John, New York, N. Y. Lock. No. 974,636; Nov. 1; Sp. p. 1276; Gaz. vol. 160; p. 196.
Blaszczyk, John, New York, N. Y. Mud-guard. No. 980,051; Dec. 27; Sp. p. 5691; Gaz. vol. 161; p. 980.
Blatch, Francis H., Hazleton, Pa., assignor to Anthracite Separator Company. Spiral separator. No. 976,980; Nov. 29; Sp. p. 6422; Gaz. vol. 160; p. 1097.
Blatz, Charles L., *et al.* (See Zinsmayer, Robert, assignor.)
Blaubach, Paul, Bremen, Germany. Manufacturing linoleum. No. 948,572; Feb. 8; Sp. p. 1674; Gaz. vol. 151; p. 291.
Blauel, Carl O., Dusseldorf-Oberkassel, Germany. Water-motor. No. 945,367; Jan. 4; Sp. p. 790; Gaz. vol. 150; p. 121.
Blauel, Carl O., Dusseldorf-Obercassel, Germany. Wave-motor. No. 947,321; Jan. 25; Sp. p. 5148; Gaz. vol. 150; p. 869.
Blaustein, Joseph. (See Greenwald, Blaustein, and Weiss.)
Blaustein, Joseph. (See Greenwald, Blaustein, Weiss, and Selkovits.)
Blauvelt, Albert, Chicago, Ill. Detector check-valve. No. 945,151; Jan. 4; Sp. p. 294; Gaz. vol. 150; p. 50.
Blauvelt, Albert, Chicago, Ill. Apparatus for priming and venting water-pumps. No. 966,423; Aug. 9; Sp. p. 1201; Gaz. vol. 157; p. 219.
Blauvelt, William H., Syracuse, N. Y. Coke-oven. No. 963,681; July 5; Sp. p. 1429; Gaz. vol. 156; p. 224.
Blauvelt, William H., assignor to Semet-Solvay Company, Syracuse, N. Y. Coke-oven construction. No. 947,524; Jan. 25; Sp. p. 5636; Gaz. vol. 150; p. 936.
Blauvelt, William H., assignor to Semet-Solvay Company, Syracuse, N. Y. System of heating-flues for retort coke-ovens. No. 947,525; Jan. 25; Sp. p. 5637; Gaz. vol. 150; p. 937.
Blaw Collapsible Steel Centering Company. (See Blaw, Jacob B., assignor.)
Blaw Collapsible Steel Centering Company. (See McArthur, Charles D., assignor.)
Blaw, Jacob B., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Mold. No. 946,002; Jan. 11; Sp. p. 2214; Gaz. vol. 150; p. 367.
Blaw, Jacob B., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Centering device. No. 946,003; Jan. 11; Sp. p. 2215; Gaz. vol. 150; p. 367.
Blaw, Jacob B., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Pipe and making the same. No. 967,163; Aug. 16; Sp. p. 2871; Gaz. vol. 157; p. 497.
Blaw, Jacob B., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Removable supporting-form for concrete. No. 572,802; Oct. 18; Sp. p. 2800; Gaz. vol. 159; p. 500.
Blaw, Jacob B., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Concrete-retaining wall. No. 972,803; Oct. 18; Sp. p. 2802; Gaz. vol. 159; p. 501.
Blaxter, George H. (See Jones, Joshua J., assignor.)
Blaylock, Sim M. (See Duncan, Sidney M., assignor.)
Blazer, Almer N., assignor to Blazer Spiral Engine Co., Mescalero, N. Mex. Well-pump. No. 951,627; Mar. 8; Sp. p. 2363; Gaz. vol. 152; p. 409.
Blazer Spiral Engine Co. (See Blazer, Almer N., assignor.)
Bleach & Caustic Process Company. (See Gabriel, George A., assignor.)
Blechschmidt, Charles E., Connersville, Ind. Wall-safe. No. 957,183; May 10; Sp. p. 1470; Gaz. vol. 154; p. 262.
Blechschmidt, Charles E., Connersville, Ind. Wheel-tire. No. 963,271; July 5; Sp. p. 625; Gaz. vol. 156; p. 87.
Blechschmidt, Charles E., Connersville, Ind. Removable dial for permutation-locks. No. 966,646; Aug. 9; Sp. p. 1731; Gaz. vol. 157; p. 295.
Bleckley, Frederick W., Hazleton, Pa. Bolster. No. 946,834; Jan. 18; Sp. p. 4096; Gaz. vol. 150; p. 677.
Bleckley, Frederick W., Hazleton, Pa. Bolster. No. 946,835; Jan. 18; Sp. p. 4098; Gaz. vol. 150; p. 677.
Bledsoe, Carl F., Chicago, Ill. Friction-clutch. No. 970,459; Sept. 20; Sp. p. 2791; Gaz. vol. 158; p. 490.
Bledsoe, James A., Atlanta, Ga. Wrench. No. 962,738; June 28; Sp. p. 5286; Gaz. vol. 155; p. 923.
Bleichert & Company, Adolf. (See Pfaffenbach, Rudolf, assignor.)
Bleistein, George. (See Huebner, William C., assignor.)
Bleitz, Louis and L. R., Los Angeles, Cal. Speed varying and reversing mechanism. No. 967,164; Aug. 16; Sp. p. 2873; Gaz. vol. 157; p. 497.
Bleitz, Louis R. (See Bleitz, Louis and L. R.)
Blériot, Louis, Neuilly-sur-Seine, France. Radiator for flying-machine motors. No. 967,712; Aug. 16; Sp. p. 3984; Gaz. vol. 157; p. 683.
Bleser, Jacob, Springfield, Ill. Acetylene-gas-generating lamp. No. 949,349; Feb. 15; Sp. p. 3301; Gaz. vol. 151; p. 578.
Blessing, Emil K., Elkhart, Ind. Valve for wind instruments. No. 963,272; July 5; Sp. p. 627; Gaz. vol. 156; p. 87.
Blessing, Louis, Jackson, Mich. Spring-wheel. No. 963,742; July 12; Sp. p. 1594; Gaz. vol. 156; p. 267.
Blessing, Louis, Jackson, Mich. Spring-wheel. No. 974,347; Nov. 1; Sp. p. 613; Gaz. vol. 160; p. 92.
Blessing, Louis, and A. Johns, Jackson, Mich. Nut-lock. No. 975,115; Nov. 8; Sp. p. 2353; Gaz. vol. 160; p. 383.
Blevins, Harry E., and L. Brazille, Cove, Oreg. Ribbon-cabinet. No. 976,541; Nov. 22; Sp. p. 5447; Gaz. vol. 160; p. 920.
Blevney, John C. (See Hausman and Blevney.)
Blevney, John C., and J. Hausman, Newark, N. J. Grinding and polishing machine. No. 980,052; Dec. 27; Sp. p. 5693; Gaz. vol. 161; p. 980.
Blevney, John C., and J. Hausman, Newark, N. J., assignors to Atha Tool Company. Grinding and polishing machine. No. 980,053; Dec. 27; Sp. p. 5697; Gaz. vol. 161; p. 981.
Blevney, John C., and J. Hausman, Newark, N. J., assignors to Atha Tool Company. Abrasive machine. No. 980,054; Dec. 27; Sp. p. 5701; Gaz. vol. 161; p. 981.
Blew-Jones, Lawrence, Cornhill, assignor to N. R. Capsule Syndicate Limited, London, England. Stoppering device for bottles and the like to prevent fraudulent refilling. No. 947,052; Jan. 18; Sp. p. 4544; Gaz. vol. 150; p. 749.
Blewett, Arthur R., Spokane, Wash. Harvester. No. 960,799; June 7; Sp. p. 1132; Gaz. vol. 155; p. 189.

Alphabetical list of patentees—Continued.

Blickensderfer, George C., Stamford, Conn. Type-writing machine. No. 956,879; May 3; Sp. p. 822; Gaz. vol. 154; p. 131.
Blickensderfer, George C., Stamford, Conn. Type-writing machine. No. 972,152; Oct. 11; Sp. p. 1400; Gaz. vol. 159; p. 251.
Blickman, Sophia, New York, N. Y. Sterilizer. No. 962,809; June 28; Sp. p. 5430; Gaz. vol. 155; p. 948.
Blieberger, Gustav, New York, N. Y. Menthylated oil of wintergreen. No. 979,416; Dec. 27; Sp. p. 4313; Gaz. vol. 161; p. 765.
Bliss, Donald M., New York, N. Y. Shaft-coupling. No. 965,131; July 19; Sp. p. 4601; Gaz. vol. 156; p. 767.
Bliss, Dwight J., assignor to W. G. Moore, Carthage, Mo. Locking garment-holder. No. 946,572; Jan. 18; Sp. p. 3498; Gaz. vol. 150; p. 588.
Bliss, Frederick W., East Orange, N. J. Cabinet for stationery. No. 957,859; May 10; Sp. p. 2871; Gaz. vol. 154; p. 492.
Bliss, Henry H., Washington, D. C. Ore-roasting mechanism. No. 968,507; Aug. 23; Sp. p. 5676; Gaz. vol. 157; p. 978.
Bliss, William L., Brooklyn, N. Y. Lighting system. No. 946,715; Jan. 18; Sp. p. 3800; Gaz. vol. 150; p. 635.
Bliss, William L., Brooklyn, N. Y. Window. No. 957,728; May 10; Sp. p. 2601; Gaz. vol. 154; p. 450.
Bliss, William P., Aurora Springs, Mo. Attachment for buggy-tops. No. 950,038; Feb. 22; Sp. p. 4824; Gaz. vol. 151; p. 848.
Blits, Harry I., Clearfield, Pa. Electrical sign. No. 959,440; May 24; Sp. p. 6504; Gaz. vol. 154; p. 1088.
Blixt, Frank O., Worthington, Minn. Adjustable concave. No. 962,192; June 21; Sp. p. 4105; Gaz. vol. 155; p. 712.
Blizzard, William A., assignor to Dillon Plow & Novelty Works, Dillon, S. C. Plow. No. 973,745; Oct. 25; Sp. p. 4892; Gaz. vol. 159; p. 851.
Bloch, Alfred. (See Krüger, Ernst A., assignor.)
Bloch, Julius, *et al.* (See Müller, Georg, assignor.)
Bloch, Leon, Cleveland, Ohio. Vehicle-wheel. No. 951,173; Mar. 8; Sp. p. 1434; Gaz. vol. 152; p. 260.
Bloch, Léon L., La Chaux-de-Fonds, Switzerland. Speed-recording mechanism. No. 954,921; Apr. 12; Sp. p. 2698; Gaz. vol. 153; p. 456.
Bloch, Pauline S., assignor to Rogers Verybest Manufacturing Company, New York, N. Y. Vending-machine. No. 959,449; May 31; Sp. p. 6539; Gaz. vol. 154; p. 1117.
Bloch, Pauline S., assignor to Rogers Verybest Manufacturing Company, New York, N. Y. Vending-machine. No. 969,330; Sept. 6; Sp. p. 375; Gaz. vol. 158; p. 61.
Blocher, Samuel S., York, N. D. Washing-machine. No. 950,743; Mar. 1; Sp. p. 612; Gaz. vol. 152; p. 97.
Block, Berthold, Rochester, N. Y. Ash-sprinkler. No. 945,152; Jan. 4; Sp. p. 297; Gaz. vol. 150; p. 51.
Block, David L., New York, N. Y. Paper box. No. 954,414; Apr. 12; Sp. p. 1523; Gaz. vol. 153; p. 279.
Block, David L., New York, N. Y. Pocket match-holder. No. 962,810; June 28; Sp. p. 5431; Gaz. vol. 155; p. 949.
Block, Joseph, New York, N. Y. Portable electric light. No. 971,241; Sept. 27; Sp. p. 4483; Gaz. vol. 158; p. 784.
Block Light Company. (See Kaufman, Otto, assignor.)
Block, Louis, Mamaroneck, N. Y. Means for drying air. No. 961,710; June 14; Sp. p. 3025; Gaz. vol. 155; p. 524.
Blocki, Herbert J., Sheboygan, Wis. Tubular wrapper. No. 962,614; June 28; Sp. p. 5028; Gaz. vol. 155; p. 880.
Blocki, Herbert J., Sheboygan, Wis. Packing-pad. No. 969,451; Sept. 6; Sp. p. 628; Gaz. vol. 158; p. 100.
Blodgett, Frank, assignor of one-half to N. I. Greive, Butte, Mont. Water-glass-gage cutter. No. 950,273; Feb. 22; Sp. p. 5300; Gaz. vol. 151; p. 928.
Blodgett, R. B., *et al.* (See Locke, William S., assignor.)
Bloemker, Henry W., assignor to S. Friedberger, Philadelphia, Pa. Traverse warp-machine. No. 967,314; Aug. 16; Sp. p. 3167; Gaz. vol. 157; p. 548.
Blom, John E., Freedhem, Minn. Threshing-machine and vehicle coupling. No. 967,713; Aug. 16; Sp. p. 3986; Gaz. vol. 157; p. 683.
Blom, Pehr M., Toledo, Ohio. Carbureter. No. 977,066; Nov. 29; Sp. p. 6595; Gaz. vol. 160; p. 1126.
Blomberg, Oscar, Muskegon, Mich. Valve-spring retainer. No. 972,434; Oct. 11; Sp. p. 1985; Gaz. vol. 159; p. 348.
Blome Company, Rudolph S. (See Blome and Sinek, assignors.)
Blome, Rudolph S., and W. J. Sinek, assignors to R. S. Blome Company, Chicago, Ill. Pavement-blocking device. No. 967,714; Aug. 16; Sp. p. 3987; Gaz. vol. 157; p. 683.
Blomén, Axel L., Sundbyberg, near Stockholm, assignor to Aktiebolaget Vapenfabriken Excellent, Stockholm, Sweden. Pneumatic gun. No. 976,429; Nov. 22; Sp. p. 5194; Gaz. vol. 160; p. 883.
Blomskog, Carl V., assignor of one-half to B. Forbes, Seattle, Wash. Stove-oven. No. 965,559; July 26; Sp. p. 5552; Gaz. vol. 156; p. 945.
Blood, Charles W. H., Winthrop, Mass. Power-driven roller-holddown and feed-roll. No. 952,094; Mar. 15; Sp. p. 3300; Gaz. vol. 152; p. 595.
Blood, Charles W. H., Winthrop, assignor to S. A. Woods Machine Company, Boston, Mass. Work-feeding apparatus for wood-planing machines. No. 953,814; Apr. 5; Sp. p. 267; Gaz. vol. 153; p. 47.
Blood, Charles W. H., Winthrop, and C. G. Osteman, Dorchester, assignors to S. A. Woods Machine Company, Boston, Mass. Cutter-head setting and gaging device and stand. No. 954,712; Apr. 12; Sp. p. 2185; Gaz. vol. 153; p. 382.
Blood, Edwin J., Chicago, Ill. Cannon. No. 958,220; May 17; Sp. p. 3847; Gaz. vol. 154; p. 650.
Bloodworth, Bettie L. (See Cary, Bettie L.)
Bloom, Charles F., Brady, Nebr. Trace-fastener. No. 979,369; Dec. 20; Sp. p. 4211; Gaz. vol. 161; p. 726.
Bloom, Harry F., Sandusky, Ohio. Heater attachment for gas-lamps. No. 971,242; Sept. 27; Sp. p. 4484; Gaz. vol. 158; p. 785.
Bloom, Orvis D., and J. H. Hill, Portland, Oreg. Billiard-cue. No. 970,172; Sept. 13; Sp. p. 2198; Gaz. vol. 158; p. 374.
Bloomer Bros. Company. (See Klefeker, Charles B., assignor.)
Bloomfield, Edward W., Vancouver, British Columbia, Canada. Necktie-adjusting means. No. 969,594; Sept. 6; Sp. p. 959; Gaz. vol. 158; p. 151.
Bloomfield, Russell C., Cincinnati, Ohio. Gear-wheel. No. 975,743; Nov. 15; Sp. p. 3698; Gaz. vol. 160; p. 623.
Bloomfield, Walter, Ridgefield Park, N. J. Carriage-return mechanism for type-writers. No. 956,471; Apr. 26; Sp. p. 6035; Gaz. vol. 153; p. 1047.
Blos, Ernst, Schöneberg, near Berlin, Germany. Transmitter for teleselectors. No. 970,367; Sept. 13; Sp. p. 2601; Gaz. vol. 158; p. 440.
Blose, William H., Greenville, Ohio. Mold. No. 959,438; May 24; Sp. p. 6490; Gaz. vol. 154; p. 1087.
Blossfeld, Emil, San Francisco, Cal. Sash-lock. No. 971,350; Sept. 27; Sp. p. 4685; Gaz. vol. 158; p. 819.
Blossfeld, Wilhelm C. F., Sprague ville, Iowa. Truck for hay-loaders. No. 969,595; Sept. 6; Sp. p. 959; Gaz. vol. 158; p. 152.
Blossom, Charles C., Wickford, R. I. Nut-lock. No. 950,629; Mar. 1; Sp. p. 354; Gaz. vol. 152; p. 58.
Blount, Frederick R. and N., New York, N. Y. Hydrocarbon-burner. No. 967,315; Aug. 16; Sp. p. 3171; Gaz. vol. 157; p. 549.
Blount, Nelson. (See Blount, Frederick R. and N.)
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 954,163; Apr. 5; Sp. p. 992; Gaz. vol. 153; p. 168.
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 954,249; Apr. 5; Sp. p. 1177; Gaz. vol. 153; p. 197.
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 956,514; May 3; Sp. p. 16; Gaz. vol. 154; p. 5.
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 956,880; May 3; Sp. p. 826; Gaz. vol. 154; p. 132.
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 957,407; May 10; Sp. p. 1966; Gaz. vol. 154; p. 340.
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 960,800; June 7; Sp. p. 1135; Gaz. vol. 155; p. 190.
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 969,152; Sept. 6; Sp. p. 4; Gaz. vol. 158; p. 3.
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 971,590; Oct. 4; Sp. p. 174; Gaz. vol. 159; p. 32.
Blower, Joseph W., Columbus, Ohio. Locking device. No. 977,850; Dec. 6; Sp. p. 934; Gaz. vol. 161; p. 147.
Blue Flame Distillate Burner Company. (See Duff, Phelps, and Pitts, assignors.)
Bluen, Georg, Berlin, Germany. Winding apparatus for inking-ribbons. No. 957,542; May 10; Sp. p. 2234; Gaz. vol. 154; p. 387.
Bluff, John T., assignor of one-half to F. F. Hayes, Butte, Mont. Device for preventing the creeping of rails. No. 970,418; Sept. 13; Sp. p. 2700; Gaz. vol. 158; p. 456.
Bluff, John T., assignor of one-half to F. F. Hayes, Butte, Mont. Non-refillable bottle. No. 972,094; Oct. 4; Sp. p. 1254; Gaz. vol. 159; p. 213.
Bluff, John T., assignor of one-half to F. F. Hayes, Butte, Mont. Drip-cup for umbrellas. No. 976,032; Nov. 15; Sp. p. 4252; Gaz. vol. 160; p. 721.
Bluhm, Charles A., Michigan City, Ind. Third rail. No. 960,066; May 31; Sp. p. 7916; Gaz. vol. 154; p. 1329.
Blum, Edward W., Cincinnati, Ohio. Gearing. No. 968,025; Aug. 23; Sp. p. 4646; Gaz. vol. 157; p. 811.
Blum, Edward W., W. T. S. Johnson, and F. Kropf, assignors to The Bradford Machine Tool Company, Cincinnati, Ohio. Relieving attachment for lathes. No. 971,243; Sept. 27; Sp. p. 4486; Gaz. vol. 158; p. 785.
Blum, George J., assignor of one-half to L. L. Miller, Chicago, Ill. Lathe-chuck. No. 945,261; Jan. 4; Sp. p. 531; Gaz. vol. 150; p. 87.
Blumberg, Jacob J., Toronto, Ontario, Canada. Golf-ball marker. No. 952,501; Mar. 22; Sp. p. 4125; Gaz. vol. 152; p. 759.
Blumenberg, Julius R., Chicago, Ill. Cored quad. No. 973,469; Oct. 25; Sp. p. 4314; Gaz. vol. 159; p. 756.
Blumenthal, Frank, Chicago, Ill. Bottle. No. 948,809; Feb. 8; Sp. p. 2191; Gaz. vol. 151; p. 372.

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Blumenthal, Harry. (See Johnson, Gustaf I. D., assignor.)
Blumenthal, Harry, Dorchester, Mass. Telephone-support. No. 960,151; May 31; Sp. p. 8067; Gaz. vol. 154; p. 1356.
Blumenthal, Louis, Brooklyn, N. Y. Cover-fastening device for bottles. No. 978,109; Dec. 6; Sp. p. 1474; Gaz. vol. 161; p. 238.
Blumer, James. (See Howe, John, assignor.)
Blunck, Henry L., Sioux City, Iowa. Car-brake equalizer. No. 977,998; Dec. 6; Sp. p. 1246; Gaz. vol. 161; p. 199.
Blundell, William C., assignor of one-half to O. A. Schramm and one-half to P. C. Schramm, Kansas City, Mo. Electric time-switch mechanism. No. 945,013; Jan. 4; Sp. p. 5; Gaz. vol. 150; p. 3.
Blundell, William J., New York, N. Y. Step-ladder. No. 949,614; Feb. 15; Sp p. 3830; Gaz. vol. 151; p. 667.
Blunt, James G., Schenectady, N. Y. Valve-gear. No. 976,542; Nov. 22; Sp. p. 5450; Gaz. vol. 160; p. 921.
Bly, Albert B., Des Moines, Iowa. Pencil-holder. No. 968,529; Aug. 30; Sp. p. 5735; Gaz. vol. 157; p. 1011.
Blymyer, Layfette W. (See Brown and Blymyer.)
Blynt, Herbert S., assignor to The Ohio Grease Lubricant Company, Loudonville, Ohio. Grease lubricator. No. 946,484; Jan. 11; Sp. p. 3325; Gaz. vol. 150; p. 534.
Blyth, Arthur J., assignor of one-half to W. E. Little, Los Angeles, Cal. Show-case. No. 964,952; July 19; Sp. p. 4247; Gaz. vol. 156; p. 709.
Blyth, David F. (See Robertson, Alexander S., assignor.)
Blythe, James H., Denver, Colo. Indicating means for party-line telephones. No. 972,988; Oct. 18; Sp. p. 3266; Gaz. vol. 159; p. 568.
Boak, William P., Koshkonong, Mo. Leather-treating machine. No. 950,430; Feb. 22; Sp. p. 5588; Gaz. vol. 151; p. 979.
Boals, Melville C. (See Edwards and Boals.)
Board, Edward, Philadelphia, Pa. Mandrel. No. 979,922; Dec. 27; Sp. p. 5423; Gaz. vol. 161; p. 937.
Boardman, Charles S. (See Conkling and Boardman.)
Boardman, James P., Coalgate, Okla. Non-refillable bottle. No. 948,915; Feb. 8; Sp. p. 2387; Gaz. vol. 151; p. 406.
Boardman, Richard. (See Healey, Aquilla E., assignor.)
Bobb, Boyd B., Haynes, N. D. Wire-stretcher. No. 959,988; May 31; Sp. p. 7724; Gaz. vol. 154; p. 1301.
Bobbitt, James H., Harvard, Nebr. Thermo-electric furnace-regulator. No. 962,884; June 28; Sp. p. 5571; Gaz. vol. 155; p. 975.
Bobrick, Gabriel A., Los Angeles, Cal. Refrigerating apparatus. No. 966,076; Aug. 2; Sp. p. 500; Gaz. vol. 157; p. 81.
Bock, Alfred, Brooklyn, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Latch. No. 959,295; May 24; Sp. p. 6227; Gaz. vol. 154; p. 1041.
Bock, Emil G. (See Turner, Harley O., assignor.)
Bock, Herman F., Antioch, assignor of one-half to F. W. Severin, Chicago, Ill. Internal-combustion engine. No. 974,853; Nov. 8; Sp. p. 1753; Gaz. vol. 160; p. 292.
Bock, Samuel W., Milwaukee, Wis. Match-box. No. 958,468; May 17; Sp. p. 4506; Gaz. vol. 154; p. 738.
Bock, Udo W. (See Cruikshank and Bock.)
Bockus, Charles L. (See Johnson and Bockus.)
Bocorselski, Frank E., Springfield, Mass. Adjustable holder for drills or other objects. No. 945,368; Jan. 4; Sp. p. 793; Gaz. vol. 150; p. 122.
Boda, Joseph, assignor to Independent Harvester Company, Plano, Ill. Harvester-elevator. No. 959,703; May 31; Sp. p. 7079; Gaz. vol. 154; p. 1202.
Boda, Joseph, assignor to Independent Harvester Company, Plano, Ill. Compressor and trip mechanism for grain-binders. No. 974,348; Nov. 1; Sp. p. 614; Gaz. vol. 160; p. 92.
Bodal, Elias. (See Kruse, Emil, assignor.)
Boddington, Henry, Manchester, England. Combined window-shutter and ventilator. No. 952,300; Mar. 15; Sp. p. 3714; Gaz. vol. 152; p. 664.
Boddy, Ernest R., *et al.* (See Boddy, George A., assignor.)
Boddy, George A., assignor of one-fourth to J. B. Kessler, one-fourth to G. H. Boddy, and one-fourth to E. R. Boddy, River Rouge, Mich. Turbine. No. 948,916; Feb. 8; Sp. p. 2388; Gaz. vol. 151; p. 406.
Boddy, George H., *et al.* (See Boddy, George A., assignor.)
Bode, Alfred, Hamburg, Germany. Floating crane. No. 948,304; Feb. 8; Sp. p. 1089; Gaz. vol. 151; p. 201.
Bode, Philipp G. A., Hamburg, Germany. Upholstered chair. No. 958,356; May 17; Sp. p. 4285; Gaz. vol. 154; p. 699.
Bodemer, Johann G., Zschopau, Germany. Backing-off brake mechanism for self-acting mules. No. 964,378; July 12; Sp. p. 2906; Gaz. vol. 156; p. 480.
Boden, George, Watertown, assignor to Oakville Company, Waterbury, Conn. Mailing-box. No. 969,029; Aug. 30; Sp. p. 6785; Gaz. vol. 157; p. 1182.
Bodenstein, Albert G., Trenton, N. J. Spring-support. No. 948,493; Feb. 8; Sp. p. 1511; Gaz. vol. 151; p. 267.
Bodenstein, Jacob, assignor to National Desk Company, Herkimer, N. Y. Locking device for drawers. No. 950,813; Mar. 1; Sp. p. 756; Gaz. vol. 152; p. 121.
Bodine, George I., Jr., Philadelphia, Pa. Time-indicator. No. 974,401; Nov. 1; Sp. p. 721; Gaz. vol. 160; p. 109.
Bodine, Harry E., Merchantville, N. J. Combination fashion and sample book. No. 958,582; May 17; Sp. p. 4721; Gaz. vol. 154; p. 775.
Bodkin, John A., New York, N. Y. Rail-joint. No. 978,546; Dec. 13; Sp. p. 2436; Gaz. vol. 161; p. 419.
Bodkin, John A., New York, N. Y., assignor to O. R. Barnett, Glencoe, Ill. Rail-anchor. No. 973,160; Oct. 18; Sp. p. 3642; Gaz. vol. 159; p. 627.
Bodman, Walter L., Covington, Ky. Wheel-journal. No. 975,744; Nov. 15; Sp. p. 3699; Gaz. vol. 160; p. 623.
Bodman, Walter L., assignor to I. Rheinstrom, Cincinnati, Ohio. Bottle-washing machine. No. 948,586; Feb. 8; Sp. p. 1712; Gaz. vol. 151; p. 296.
Bodman, Walter L., assignor to I. Rheinstrom, Cincinnati, Ohio. Bottle-soaking machine. No. 966,403; Aug. 2; Sp. p. 1153; Gaz. vol. 157; p. 187.
Bodman, Walter L., Covington, Ky., assignor to I. Rheinstrom, Cincinnati, Ohio. Bottle-washing machine. No. 966,404; Aug. 2; Sp. p. 1155; Gaz. vol. 157; p. 187.
Bodman, Walter L., Covington, Ky., assignor to I. Rheinstrom, Cincinnati, Ohio. Bottle-soaking machine. No. 966,405; Aug. 2; Sp. p. 1157; Gaz. vol. 157; p. 187.
Bodmer, Christian, assignor to The Stanley Rule & Level Company, New Britain, Conn. Spirit-level. No. 959,296; May 24; Sp. p. 6229; Gaz. vol. 154; p. 1041.
Bodmer, Christian, assignor to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 960,256; June 7; Sp. p. 26; Gaz. vol. 155; p. 8.
Bodmer, Christian, assignor to The Stanley Rule & Level Company, New Britain, Conn. Dovetail tongue and groove cutter. No. 962,885; June 28; Sp. p. 5576; Gaz. vol. 155; p. 975.
Bodmer, Christian, assignor to The Stanley Rule & Level Company, New Britain, Conn. Wood-scoring device for planes and the like. No. 968,508; Aug. 23; Sp. p. 5684; Gaz. vol. 157; p. 978.
Bodmer, Christian, and J. M. Burdick, assignors to Stanley Rule & Level Company, New Britain, Conn. Spirit-level. No. 954,074; Apr. 5; Sp. p. 787; Gaz. vol. 153; p. 137.
Bodwell, George A. (See Wentworth, Barton M., assignor.)
Boe, Adolph A., Irene, S. D. Wire-stretcher. No. 974,228; Nov. 1; Sp. p. 274; Gaz. vol. 160; p. 46.
Boe, Nils A., Terrace, Minn. Trap. No. 955,751; Apr. 19; Sp. p. 4452; Gaz. vol. 153; p. 768.
Boeck, Charles G., assignor to Novelty Manufacturing Company, Jackson, Mich. Automobile-radiator. No. 970,297; Sept. 13; Sp. p. 2472; Gaz. vol. 158; p. 416.
Boeckel, Alexander, O. Grunberg, J. Korwin-Krukovsky, and E. Luxembourg, St. Petersburg, Russia. Turbine. No. 945,742; Jan. 11; Sp. p. 1622; Gaz. vol. 150; p. 275.
Boeckh, Everard H., Toronto, Ontario, Canada. Monoplane. No. 966,424; Aug. 9; Sp. p. 1203; Gaz. vol. 157; p. 219.
Boeckmann, Frank, Bartelso, Ill. Road-drag. No. 971,113; Sept. 27; Sp. p. 4199; Gaz. vol. 158; p. 741.
Boegen, John E., Berwyn, assignor to C. P. Monash, Chicago, Ill. Steam, air, and water trap valve. No. 959,297; May 24; Sp. p. 6230; Gaz. vol. 154; p. 1042.
Boegen, John E., Berwyn, assignor to Iroquois Engineering Company, Chicago, Ill. Steam, air, and water trap valve. No. 974,100; Oct. 25; Sp. p. 5617; Gaz. vol. 159; p. 974.
Boehringer & Soehne, C. F. (See Ach, Lorenz, assignor.)
Boening, Ernest, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Rope-drive elevator. No. 964,842; July 19; Sp. p. 4031; Gaz. vol. 156; p. 671.
Boenker, Henry H., St. Charles, Mo. Egg-crate lid. No. 953,315; Mar. 29; Sp. p. 5878; Gaz. vol. 152; p. 1061.
Boenker, Henry H., St. Charles, Mo. Agricultural implement. No. 970,783; Sept. 20; Sp. p. 3532; Gaz. vol. 158; p. 604.
Boensch, Carl, Chicago, Ill. Adjustable lamp-bracket. No. 978,547; Dec. 13; Sp. p. 2437; Gaz. vol. 161; p. 419.
Boepple, Johann F., Cannelton, Ind. Hook for catching shell-fish. No. 975,927; Nov. 15; Sp. p. 4066; Gaz. vol. 160; p. 685.
Boercker, Frederick, St. Louis, Mo. Air-compressor. No. 968,234; Aug. 23; Sp. p. 5121; Gaz. vol. 157; p. 882.
Boerger, Fred., *et al.* (See Millspaugh, William H., assignor.) (Reissue.)
Boericke, Gideon, Philadelphia, Pa. Reducing refractory ores, particularly oxids and sulfids. No. 958,851; May 24; Sp. p. 5308; Gaz. vol. 154; p. 894.
Boericke, Gideon, Philadelphia, Pa. Making copper alloys. No. 959,048; May 24; Sp. p. 5712; Gaz. vol. 154; p. 959.
Boerner, Arno, Briessnitz, near Dresden, Germany. Elastic tire for vehicles. No. 979,417; Dec. 27; Sp. p. 4314; Gaz. vol. 161; p. 765.
Boerner, Emile L., Iowa City, Iowa. Device for cooling and dispensing beverages. No. 949,211; Feb. 15; Sp. p. 2994; Gaz. vol. 151; p. 531.
Boerngen, Max E., assignor of two-thirds to J. Maurer, Kansas City, Mo. Fly-catcher. No. 979,640; Dec. 27; Sp. p. 4804; Gaz. vol. 161; p. 843.
Boes & Co., Dr. (See Rode, Wilhelm, assignor.)
Boesch, John C., Charleston, S. C., and J. H. G. von Oven, deceased; J. H. H. von Oven, administrator. Cotton-gin. No. 948,810; Feb. 8; Sp. p. 2192; Gaz. vol. 151; p. 372.

Alphabetical list of patentees—Continued.

Boeson, Torkild, Grayling, Mich. Hose-holder. No. 957,930; May 17; Sp. p. 3050; Gaz. vol. 154; p. 548.
Boessneck, Paul, assignor to The Firm of M. B. Vogel, Leipzig, Germany. Making antimony compounds. No. 952,704; Mar. 22; Sp. p. 4582; Gaz. vol. 152; p. 831.
Boettcher, Henry, Raymond, Minn. Interchangeable hen's nest. No. 946,323; Jan. 11; Sp. p. 2888; Gaz. vol. 150; p. 479.
Bofird, Louis, New York, N. Y. Air-tight revolving window-sash. No. 970,173; Sept. 13; Sp. p. 2199; Gaz. vol. 158; p. 374.
Bogar, Jacob A., Lykens, Pa. Display-rack. No. 948,203; Feb. 1; Sp. p. 867; Gaz. vol. 151; p. 142.
Bogart, Otto. (See Straley, John A., assignor.)
Bogart, Peter B., Milwaukee, Wis. Ventilating system. No. 949,212; Feb. 15; Sp. p. 2995; Gaz. vol. 151; p. 531.
Bogen, Andrew N., Denver, Colo. Follower for traveling-cases. No. 972,323; Oct. 11; Sp. p. 1755; Gaz. vol. 159; p. 309.
Bogenschutz, William C., assignor of two-thirds to W. Thompson and D. Curtenius, Kalamazoo, Mich. Flask. No. 956,621; May 3; Sp. p. 243; Gaz. vol. 154; p. 41.
Boger, Reece F., Concord, N. C. Churn. No. 950,364; Feb. 22; Sp. p. 5459; Gaz. vol. 151; p. 957.
Boggs, Alvin C., Jr., Fort Dodge, Iowa. Stopper-retainer. No. 957,645; May 10; Sp. p. 2431; Gaz. vol. 154; p. 421.
Boggs, Edward B., assignor to The Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Axle-clamp. No. 967,165; Aug. 16; Sp. p. 2874; Gaz. vol. 157; p. 498.
Boggs, Henry H., Detroit, Mich. Engine-cylinder. No. 974,854; Nov. 8; Sp. p. 1755; Gaz. vol. 160; p. 293.
Boggs, Olla G., Shawnee, Okla. Sifter. No. 948,494; Feb. 8; Sp. p. 1512; Gaz. vol. 151; p. 267.
Boggs, Thaddeus M., Monongahela, Pa. Tool for finishing bearings. No. 969,452; Sept. 6; Sp. p. 629; Gaz. vol. 158; p. 100.
Boggs, Thaddeus M., Monongahela, Pa. Boring, reaming, and tapping machine. No. 979,418; Dec. 27; Sp. p. 4315; Gaz. vol. 161; p. 765.
Boggs, Thomas K., Decatur, Ala. Cotton-chopper. No. 948,495; Feb. 8; Sp. p. 1512; Gaz. vol. 151; p. 267.
Bogle, William L., Columbus, Miss. Railway-track bolt. No. 973,470; Oct. 25; Sp. p. 4315; Gaz. vol. 159; p. 757.
Bogue, Samuel R. (See McClintock, Charles D., assignor.)
Bogum, Josef. (See Nicolls and Bogum.)
Bohan, Owen W. (See Plunkett, Christopher F., assignor.)
Bohan, William J., St. Paul, Minn. Combined door-stop brace and fastener. No. 970,602; Sept. 20; Sp. p. 3108; Gaz. vol. 158; p. 541.
Bohan, William J., St. Paul, Minn. Berth-lamp. No. 971,351; Sept. 27; Sp. p. 4686; Gaz. vol. 158; p. 819.
Bohannan, Joe, Farmington, Ill. Artificial bait. No. 963,202; July 5; Sp. p. 439; Gaz. vol. 156; p. 62.
Bohin, Paul, Paris, France. Manufacture of needles. No. 963,987; July 12; Sp. p. 2134; Gaz. vol. 156; p. 348.
Bohl, Ernst L., and R. Y. Barrows, Rutherford, N. J. Manufacture of molds for casting metal. No. 960,257; June 7; Sp. p. 28; Gaz. vol. 155; p. 8.
Bohland, Carl P., and J. J. Connelly, deceased, Superior, Wis.; A. M. Connelly, administratrix. Molding-machine. No. 972,781; Oct. 11; Sp. p. 2747; Gaz. vol. 159; p. 468.
Bohling, Julius C. (See Bohling, William F. and J. C.)
Bohling, William F., Arcadia, and J. C. Bohling, Glidden, Iowa. Walking-rake. No. 976,250; Nov. 22; Sp. p. 4803; Gaz. vol. 160; p. 821.
Böhm, Conrad R., assignor to Cerofirm-Gesellschaft m. b. H., Berlin, Germany. Producing incandescent mantles. No. 973,253; Oct. 18; Sp. p. 3850; Gaz. vol. 159; p. 658.
Böhm, Emil, Finkenkrug, near Seegefeld, Germany. Insect-trap, especially for flies. No. 970,784; Sept. 20; Sp. p. 3536; Gaz. vol. 158; p. 605.
Bohm, Ernst A., San Bruno, Cal. Rotary engine. No. 954,609; Apr. 12; Sp. p. 1953; Gaz. vol. 153; p. 346.
Bohn, Gebhard C., St. Paul, Minn. Refrigerator. No. 950,834; Mar. 1; Sp. p. 801; Gaz. vol. 152; p. 128.
Bohn, Gebhard C., St. Paul, Minn. Refrigerator-car. No. 956,472; Apr. 26; Sp. p. 6036; Gaz. vol. 153; p. 1047.
Bohn, René, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Indanthrene monosulfonic acid and making same. No. 948,204; Feb. 1; Sp. p. 869; Gaz. vol. 151; p. 142.
Bohn, René, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Vat dye and making same. No. 970,878; Sept. 20; Sp. p. 3722; Gaz. vol. 158; p. 636.
Bohne, Max, Berlin, Germany. Inflating-pump for motor-vehicle tires. No. 946,101; Jan. 11; Sp. p. 2408; Gaz. vol. 150; p. 400.
Bohnengel, Andrew J., Toledo, Ohio. Attachment for cloth doubling and folding machines. No. 962,193; June 21; Sp. p. 4106; Gaz. vol. 155; p. 712.
Bohner, George. (See Cameron, Frederick A., assignor.)
Bohner, George, Chicago, Ill. Vapor-generating lamp. No. 967,316; Aug. 16; Sp. p. 3174; Gaz. vol. 157; p. 549.
Bohr, Nicholas C., assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Holddown for lasting-machines. No. 958,083; May 17; Sp. p. 3576; Gaz. vol. 154; p. 603.
Bohrer, Richard E., Rochester, N. Y. Washtub-support. No. 979,123; Dec. 20; Sp. p. 3717; Gaz. vol. 161; p. 644.
Bohrmann, Emil, *et al.* (See Spähr, Ernst J., assignor.)
Boicourt, Ernest A., Dallas, S. D. Rail-joint. No. 949,213; Feb. 15; Sp. p. 2996; Gaz. vol. 151; p. 532.
Boies, David, and J. A. Waddell, Jr., assignors to Spencer Heater Co., Scranton, Pa. Grate. No. 968,735; Aug. 30; Sp. p. 6203; Gaz. vol. 157; p. 1084.
Boies, David, and J. A. Waddell, Jr., assignors to Spencer Heater Company, Scranton, Pa. Grate. No. 968,830; Aug. 30; Sp. p. 6388; Gaz. vol. 157; p. 1114.
Boillot, Charles E., New York, N. Y. Perpetual calendar. No. 968,319; Aug. 23; Sp. p. 5298; Gaz. vol. 157; p. 914.
Boirault, Louis, Paris, France. Railway-car brake. No. 953,510; Mar. 29; Sp. p. 6312; Gaz. vol. 152; p. 1132.
Boirault, Louis, Paris, France. Buffer for automatic couplings for railway and street cars. No. 968,917; Aug. 30; Sp. p. 6570; Gaz. vol. 157; p. 1144.
Boirault, Louis, assignor to The Societe d'Etudes des Brevets Boirault, Paris, France. Automatic coupling for cars and carriages. No. 977,926; Dec. 6; Sp. p. 1097; Gaz. vol. 161; p. 174.
Boitano, A. J., *et al.* (See Stipe, Robert and W., assignors.)
Bokel, J. A. (See Anderson, Nels D., assignor.)
Boland, Bernard J., *et al.* (See Elliott, William R., assignor.)
Boland, Francis P., Providence, R. I. Positive-pressure blower. No. 959,049; May 24; Sp. p. 5713; Gaz. vol. 154; p. 959.
Boland, Francis P., Providence, R. I. Machine for drying jewelry, &c. No. 969,453; Sept. 6; Sp. p. 630; Gaz. vol. 158; p. 100.
Boland, John F. (See Pence, Edward L., assignor.)
Boland, Joseph K., assignor to Boland Machine & Manufacturing Co., New Orelans, La. Chain conveyer. No. 965,067; July 19; Sp. p. 4486; Gaz. vol. 156; p. 746.
Boland Machine & Manufacturing Co. (See Boland, Joseph K., assignor.)
Boland, Michael A., Buffalo, N. Y. Ball-grip. No. 977,776; Dec. 6; Sp. p. 785; Gaz. vol. 161; p. 122.
Bolander, Louis P., San Francisco, Cal. Feeder for furnaces. No. 957,184; May 10; Sp. p. 1471; Gaz. vol. 154; p. 262.
Bolang, Ole, Lake City, Minn. Harrow. No. 952,502; Mar. 22; Sp. p. 4126; Gaz. vol. 152; p. 760.
Bolas, Thomas. (See Kelly and Bolas.)
Bolas, Thomas, Chiswick, assignor to Self-Developing Plate Company Limited, Holborn, England. Manufacture of celluloid or the like. No. 964,483; July 19; Sp. p. 3139; Gaz. vol. 156; p. 546.
Boldrey, George W., and G. R. Hussung, Aurora, Ind. Loading and dumping apparatus. No. 978,817; Dec. 13; Sp. p. 2997; Gaz. vol. 161; p. 508.
Bolduan, Frank, and C. S. Dyas, Chicago, Ill.; said Dyas assignor to said Bolduan. Animal-poisoning product. No. 962,886; June 28; Sp. p. 5580; Gaz. vol. 155; p. 976.
Bole, Edward A., Follansbee, W. Va. Gripping-tongs. No. 952,095; Mar. 15; Sp. p. 3302; Gaz. vol. 152; p. 595.
Bole, Samuel T., assignor to The J. G. Brill Company, Philadelphia, Pa. Axle-box. No. 948,037; Feb. 1; Sp. p. 537; Gaz. vol. 151; p. 86.
Bole, Samuel T., assignor to The J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 970,010; Sept. 13; Sp. p. 1877; Gaz. vol. 158; p. 320.
Boleg, Adolf, Rorschach, Switzerland. Apparatus for drying textile and other materials. No. 958,469; May 17; Sp. p. 4507; Gaz. vol. 154; p. 738.
Bolewicz, Joseph, Union City, Conn. Device for operating blinds. No. 952,064; Mar. 15; Sp. p. 3253; Gaz. vol. 152; p. 585.
Bolewicz, Joseph, Naugatuck, Conn. Device for operating blind-slats. No. 952,065; Mar. 15; Sp. p. 3254; Gaz. vol. 152; p. 586.
Bolger, Thomas P., Gloucester, Mass. Ash-sifter. No. 949,615; Feb. 15; Sp. p. 3833; Gaz. vol. 151; p. 668.
Bolger, Thomas P., Gloucester, Mass. Garbage-can receptacle. No. 962,887; June 28; Sp. p. 5581; Gaz. vol. 155; p. 976.
Bolger, Thomas P., assignor to Success Manufacturing Company, Gloucester, Mass. Ash-sifter. No. 971,018; Sept. 27; Sp. p. 3993; Gaz. vol. 158; p. 709.
Bolin, Richard H., Kane, Pa. Apparatus for severing glass cylinders. No. 979,740; Dec. 27; Sp. p. 5021; Gaz. vol. 161; p. 877.
Bolinder, Erik A., Stockholm, Sweden. Stove, range, and the like. No. 977,505; Dec. 6; Sp. p. 180; Gaz. vol. 161; p. 30.
Boling, Samuel M., assignor to Standard Computing Wagon Scales Company, Chandler, Okla. Computing device. No. 973,403; Oct. 18; Sp. p. 4174; Gaz. vol. 159; p. 711.
Bolinski, Herman, and M. Schmidt, New London, Wis. Automatic speed-controlling clutch. No. 965,068; July 19; Sp. p. 4487; Gaz. vol. 156; p. 747.
Boller, Vernon W., U. S. Army. Multiple self-inking stamp holder. No. 948,811; Feb. 8; Sp. p. 2194; Gaz. vol. 151; p. 372.
Bolles, Robert O., assignor of one-half to J. H. Wood, Bloomington, Ill. Cane. No. 953,586; Mar. 29; Sp. p. 6476; Gaz. vol. 152; p. 1157.

Alphabetical list of patentees—Continued.

Bolles, William B., Cleveland, Ohio. Building-block. No. 950,609; Mar. 1; Sp. p. 309; Gaz. vol. 152; p. 50.
Bolles, William B., Cleveland, Ohio. Measured feed apparatus. No. 972,804; Oct. 18; Sp. p. 2803; Gaz. vol. 159; p. 501.
Bollet, John. (See Ancil and Bollet.)
Bollinger, Alexander M., Leechburg, Pa. Vehicle. No. 974,547; Nov. 1; Sp. p. 1095; Gaz. vol. 160; p. 165.
Bollstrom, Maurice. (See Messler and Bollstrom.)
Bolner, Abram P., Hartford City, Ind., assignor of one-half to S. J. Peck. Hose-carrier. No. 976,774; Nov. 22; Sp. p. 5926; Gaz. vol. 160; p. 1000.
Bolt, Bernhard J. L., San Francisco, Cal. Match-box. No. 979,124; Dec. 20; Sp. p. 3718; Gaz. vol. 161; p. 644.
Bolte & Weyer Company. (See Weyer, Joseph J., assignor.)
Bolton, Edward, Milwaukee, Wis. Distilling-column. No. 955,127; Apr. 19; Sp. p. 3087; Gaz. vol. 153; p. 554.
Bolton, Francis C., *et al.* (See Locke, D'Arcy V. T. A., assignor.)
Bolton, George E., Chicago, Ill. Bottle-stopper. No. 958,221; May 17; Sp. p. 3850; Gaz. vol. 154; p. 651.
Bolton, George E., Chicago, Ill., assignor to C. Carrington, Baltimore, Md. Tool for forming bottle-necks. No. 947,632; Jan. 25; Sp. p. 5858; Gaz. vol. 150; p. 973.
Bolton, George W., Jr., Detroit, Mich. Shock-absorber. No. 964,201; July 12; Sp. p. 2555; Gaz. vol. 156; p. 421.
Bolton, John B., Lawrence, Mass., assignor to Draper Company, Portland, Me. Yarn-stripper. No. 964,484; July 19; Sp. p. 3142; Gaz. vol. 156; p. 546.
Bolton, Joseph P., assignor to The Frost Prevention Company, Fresno, Cal. Frost-preventing apparatus. No. 979,370; Dec. 20; Sp. p. 4213; Gaz. vol. 161; p. 726.
Bolton, Werner v., Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Spring for timepieces. No. 946,993; Jan. 18; Sp. p. 4440; Gaz. vol. 150; p. 731.
Bolton, Werner von, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Spring for timepieces. No. 947,146; Jan. 18; Sp. p. 4710; Gaz. vol. 150; p. 778.
Bolton, Werner von, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Spring for timepieces. No. 947,147; Jan. 18; Sp. p. 4711; Gaz. vol. 150; p. 778.
Bolz, Christian, Budapest, Austria-Hungary. Apparatus for opening or closing the discharge-openings of vertical retorts. No. 972,674; Oct. 11; Sp. p. 2531; Gaz. vol. 159; p. 431.
Bolzani, Anton, Berlin, Germany. Brake for hoisting devices. No. 969,834; Sept. 13; Sp. p. 1500; Gaz. vol. 158; p. 258.
Bolze, Heinrich A., Hanover, Germany. Hot-water heating apparatus. No. 971,966; Oct. 4; Sp. p. 1022; Gaz. vol. 159; p. 170.
Boma, John, assignor to The Pneumatic Nut Machine Company, Cleveland, Ohio. Nut-tapping machine. No. 947,961; Feb. 1; Sp. p. 380; Gaz. vol. 151; p. 62.
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Fountain-pen. No. 954,415; Apr. 12; Sp. p. 1524; Gaz. vol. 153; p. 280.
Bomborn, Oswald, Stuttgart, Germany. Device for securing spring-clamps in files. No. 968,641; Aug. 30; Sp. p. 5977; Gaz. vol. 157; p. 1051.
Böminghaus, Franz, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fluid-brake. No. 964,485; July 19; Sp. p. 3144; Gaz. vol. 156; p. 547.
Bommer, Emil, New York, N. Y. Double-acting spring-hinge. No. 966,380; Aug. 2; Sp. p. 1106; Gaz. vol. 157; p. 179.
Bommer, Emil, New York, N. Y. Door-spring. No. 978,548; Dec. 13; Sp. p. 2439; Gaz. vol. 161; p. 420.
Bond, Albert J., London, England. Carbon-paper holder. No. 960,488; June 7; Sp. p. 501; Gaz. vol. 155; p. 83.
Bond, Charles H., Jr., Philadelphia, Pa. Hair-frame. No. 953,587; Mar. 29; Sp. p. 6477; Gaz. vol. 152; p. 1158.
Bond, Charles L., Los Angeles, Cal. Electro-automatic net-weight machine. No. 966,885; Aug. 9; Sp. p. 2284; Gaz. vol. 157; p. 375.
Bond Foundry and Machine Company. (See Condé, Charles A., assignor.)
Bond, George W., assignor to The Elwood Iron Works, Elwood, Ind. Brick-machine. No. 957,543; May 10; Sp. p. 2235; Gaz. vol. 154; p. 387.
Bond, Henry J., Pittsburg, Pa. Nut-lock. No. 957,931; May 17; Sp. p. 3051; Gaz. vol. 154; p. 548.
Bond, Isaac M., and T. B. Hall, Tacoma, Va. Machine for manufacturing fire-crackers. No. 965,560; July 26; Sp. p. 5553; Gaz. vol. 156; p. 946.
Bond, Israel H. (See Fishburne and Bond.)
Bond, J. Winn, *et al.* (See Glines, Earl C., assignor.)
Bond, James E., Globe, Ariz. Adjustable post-support. No. 972,989; Oct. 18; Sp. p. 3268; Gaz. vol. 159; p. 569.
Bond, John T., Palatka, Fla. Oil-strainer. No. 970,982; Sept. 20; Sp. p. 3921; Gaz. vol. 158; p. 670.
Bond, Nathan O., Hyannis, assignor to B. F. Macy, Roslindale, Mass. Washboard. No. 979,371; Dec. 20; Sp. p. 4214; Gaz. vol. 161; p. 726.
Bond, Sidney A., Danielsville, Ga. Cultivator. No. 951,720; Mar. 8; Sp. p. 2526; Gaz. vol. 152; p. 440.

Bond, Stokeley M., Waurika, Okla. Foldable table. No. 963,502; July 5; Sp. p. 1076; Gaz. vol. 156; p. 164.
Bond, Thomas E., Baltimore, Md. Dumping coal-wagon. No. 963,503; July 5; Sp. p. 1081; Gaz. vol. 156; p. 164.
Bond, Wiley S., Lincoln, Kans. Vehicle-light. No. 964,379; July 12; Sp. p. 2915; Gaz. vol. 156; p. 481.
Bone, Frank A., Cincinnati, Ohio. Retaining-wall. No. 975,381; Nov. 8; Sp. p. 2929; Gaz. vol. 160; p. 472.
Bone, John L., and C. H. Woods, Decatur, Ill. Means for collecting fares. No. 979,419; Dec. 27; Sp. p. 4318; Gaz. vol. 161; p. 766.
Bonfey, Frank E. (See Graydon, George A., assignor.)
Bong Binder Company. (See Wiberg, Sven H., assignor.)
Bonhack, Charles F., New York, N. Y. Artificial fuel and making the same. No. 948,812; Feb. 8; Sp. p. 2197; Gaz. vol. 151; p. 373.
Bonham, Frederick I., Helena, Okla. Corn-topping machine. No. 947,292; Jan. 25; Sp. p. 5068; Gaz. vol. 150; p. 857.
Böniger, Melchior, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Orange disazo dye and making. No. 959,109; May 24; Sp. p. 5846; Gaz. vol. 154; p. 980.
Bonin, Alfred O., and L. P. Beaulieau, Holyoke, Mass. Dish-lifting device. No. 946,324; Jan. 11; Sp. p. 2890; Gaz. vol. 150; p. 479.
Bonin, Alfred O., and L. P. Beaulieau, Holyoke, Mass. Fork. No. 950,835; Mar. 1; Sp. p. 802; Gaz. vol. 152; p. 128.
Bonin, Emil C. (See Bonin, Richard J. and E. C.)
Bonin, Richard J. and E. C., Colfax, N. D. Plowing apparatus. No. 949,879; Feb. 22; Sp. p. 4422; Gaz. vol. 151; p. 791.
Bonnaffons, Albert P. (See Leibe and Bonnaffons.)
Bonnell, Hattie W. F. (See Bonnell, William A., assignor.)
Bonnell, William A., assignor to H. W. F. Bonnell, Brooklyn, N. Y. Switch or outlet box. No. 956,674; May 3; Sp. p. 365; Gaz. vol. 154; p. 60.
Bonner, Douglas E., Chicago, Ill. Curtain-fixture. No. 979,252; Dec. 20; Sp. p. 4004; Gaz. vol. 161; p. 688.
Bonner, Oliver R. (See Beall and Bonner.)
Bonner, William T., Trenton, N. J. Steam-hose. No. 945,686; Jan. 4; Sp. p. 1451; Gaz. vol. 150; p. 227.
Bonnesen, Frithiof, and G. A. Engblom, Malmö, Sweden. Mechanism for forming wire cramps and driving them into pasteboard and other material. No. 964,202; July 12; Sp. p. 2556; Gaz. vol. 156; p. 421.
Bonness, Wilhelm F., Chicago, Ill. Metallic siding. No. 978,834; Dec. 20; Sp. p. 3036; Gaz. vol. 161; p. 540.
Bonnet, Adrien, Paris, France. Pneumatic tire. No. 956,928; May 3; Sp. p. 928; Gaz. vol. 154; p. 148.
Bonnet, Arthur, assignor to Lincoln Watch & Jewelry Company, Chicago, Ill. Temperature-compensating mechanism. No. 968,235; Aug. 23; Sp. p. 5123; Gaz. vol. 157; p. 883.
Bonnet, Charles E., Philadelphia, Pa. Pneumatic thermostat. No. 974,743; Nov. 1; Sp. p. 1510; Gaz. vol. 160; p. 231.
Bonnet, Joseph, Paris, and J. L. Muller, Sannois, France. Machine for calcining mantles. No. 973,161; Oct. 18; Sp. p. 3645; Gaz. vol. 159; p. 627.
Bonnett, John C., New Haven, Conn., assignor to Taylor, Stiles & Company, Riegelsville, N. J. Gasolene-engine. No. 956,881; May 3; Sp. p. 827; Gaz. vol. 154; p. 132.
Bonney, Charles P., Providence, R. I. Wave-operated pump. No. 961,401; June 14; Sp. p. 2373; Gaz. vol. 155; p. 420.
Bonney, Charles S., Irvington, N. J. Tool-holder. No. 973,254; Oct. 18; Sp. p. 3852; Gaz. vol. 159; p. 658.
Bonnin, Emile, Kremlin-Bicêtre, France. Bucking apparatus. No. 975,116; Nov. 8; Sp. p. 2354; Gaz. vol. 160; p. 383.
Bonnot, Charles F. (See Dorn, Ludlam, and Bonnot.)
Bonnot Company, The. (See Dorn, Ludlam, and Bonnot, assignors.)
Bonnot, Louis C. (See Dorn, Ludlam, and Bonnot.)
Bonroe, Theodore, assignor to N. O. Nelson Manufacturing Company, St. Louis, Mo. Ball-cock for water-closet cisterns. No. 960,801; June 7; Sp. p. 1137; Gaz. vol. 155; p. 190.
Bonstein, Eugene, Shickshinny, Pa. Making fuel-briquets. No. 965,069; July 19; Sp. p. 4490; Gaz. vol. 156; p. 747.
Bonta, Frank M., Syracuse, N. Y. Mirror-support. No. 966,077; Aug. 2; Sp. p. 503; Gaz. vol. 157; p. 81.
Boogher, John P., St. Louis, Mo. Railway-tie. No. 956,622; May 3; Sp. p. 246; Gaz. vol. 154; p. 42.
Boogher, John P., St. Louis, Mo. Railway-tie. No. 961,478; June 14; Sp. p. 2551; Gaz. vol. 155; p. 446.
Boone, William H., Cincinnati, Ohio. Manufacture of stencils. No. 961,579; June 14; Sp. p. 2765; Gaz. vol. 155; p. 479.
Boore, Burton A., McKeesport, and J. W. Ferguson, Pittsburg, Pa. Game apparatus. No. 979,923; Dec. 27; Sp. p. 5424; Gaz. vol. 161; p. 937.
Boos, Orlando J., Los Angeles, Cal. Fly-paper holder. No. 965,364; July 26; Sp. p. 5111; Gaz. vol. 156; p. 877.
Boosey, Edward W. N., Detroit, Mich. Waste and overflow trap. No. 947,786; Feb. 1; Sp. p. 20; Gaz. vol. 151; p. 5.
Bootes, Frank A. (See Arnold and Bootes.)

Alphabetical list of patentees—Continued.

Booth, Andrew B., Genesee, La. Measuring and recording machine. No. 965,434; July 26; Sp. p. 5257; Gaz. vol. 156; p. 900.

Booth, Charles F., Canandaigua, N. Y. Dental aseptic tray and stand therefor. No. 950,988; Mar. 1; Sp. p. 1093; Gaz. vol. 152; p. 176.

Booth, Charles F., Canandaigua, N. Y. Holder for dental floss. No. 975,205; Nov. 8; Sp. p. 2571; Gaz. vol. 160; p. 414.

Booth, Eldredge E. (See Coppers and Booth.)

Booth, Frank D., and J. C. Beldin, Glendale, Cal. Wire-joint-soldering torch. No. 966,990; Aug. 9; Sp. p. 2498; Gaz. vol. 157; p. 411.

Booth, Frank W., Royalton, Minn. Corn-planter. No. 975,673; Nov. 15; Sp. p. 3567; Gaz. vol. 160; p. 600.

Booth, Glen R., Chana, Ill. Lifting-jack. No. 948,843; Feb. 8; Sp. p. 2255; Gaz. vol. 151; p. 383.

Booth, Jacob, Reynoldsville, Pa. Railway-tie. No. 945,906; Jan. 11; Sp. p. 2010; Gaz. vol. 150; p. 334.

Booth, Jacob, Reynoldsville, Pa. Bath or flesh brush attachment for bath-tubs. No. 964,843; July 19; Sp. p. 4033; Gaz. vol. 156; p. 671.

Booth, James E., Des Moines, Iowa. Harrow. No. 971,591; Oct. 4; Sp. p. 175; Gaz. vol. 159; p. 32.

Booth, Nicol A., Leith Valley, Dunedin, New Zealand. Sash-fastener. No. 963,504; July 5; Sp. p. 1083; Gaz. vol. 156; p. 165.

Booth, Thomas C., New Rochelle, assignor to The Consolidated Fruit Jar Company, New York, N. Y. Compressible tube. No. 972,095; Oct. 4; Sp. p. 1255; Gaz. vol. 159; p. 213.

Booth, William N., Cleveland, Ohio. Demountable rim for automobile-tires. No. 954,416; Apr. 12; Sp. p. 1525; Gaz. vol. 153; p. 280.

Boothby, Joseph, and C. A. Brown, Marietta, Ohio. Handle for oil-cans. No. 956,883; May 3; Sp. p. 840; Gaz. vol. 154; p. 133.

Booton, Charles D., Audubon, Iowa. Ironing-cabinet. No. 970,174; Sept. 13; Sp. p. 2200; Gaz. vol. 158; p. 374.

Boots, Herbert R. (See Senior and Boots.)

Booty, John L., *et al.* (See Mayhew, John, assignor.)

Boozer, Thomas J., Rosalia, Wash. Hoe attachment for drills. No. 970,298; Sept. 13; Sp. p. 2476; Gaz. vol. 158; p. 417.

Borah, Peter C. (See Atkison, Rosseau H., assignor.)

Borden, Bradford, assignor to The Borden Company, Warren, Ohio. Work-holder for pipe-threading tools. No. 949,031; Feb. 15; Sp. p. 2649; Gaz. vol. 151; p. 471.

Borden, Bradford, assignor to The Borden Company, Warren, Ohio. Taper-thread-cutting tool. No. 950,655; Mar. 1; Sp. p. 414; Gaz. vol. 152; p. 67.

Borden Company, The. (See Borden, Bradford, assignor.)

Borden Company, The. (See Hoefer, Emil A., assignor.)

Borden Company, The. (See Koehler, Frederick G., assignor.)

Borden Company, The. (See Nonneman, Ira W., assignor.)

Borden Company, The. (See Phillips, John B., assignor.)

Borden, Daniel T. (See Hughes and Borden.)

Borden, Gail. (See McPherson, William B., assignor.)

Borden, George L., Campbell, N. Y. Engine. No. 958,583; May 17; Sp. p. 4723; Gaz. vol. 154; p. 776.

Borden, Moro M., Collingswood, assignor to Simplex Valve and Meter Company, Camden, N. J. Liquid-gage. No. 973,101; Oct. 18; Sp. p. 3503; Gaz. vol. 159; p. 605.

Borden, Robert A. (See Stratton, Joseph R., assignor.)

Borden's Condensed Milk Company. (See McEwan, Charles F., assignor.)

Bordo, Lambert J., Philadelphia, Pa. Gage-cock. No. 947,172; Jan. 18; Sp. p. 4769; Gaz. vol. 150; p. 786.

Bordo, Lambert J., Philadelphia, Pa. Boiler water-glass. No. 973,337; Oct. 18; Sp. p. 4024; Gaz. vol. 159; p. 688.

Boregard, William H., Spokane, Wash. Swimming apparatus. No. 962,415; June 28; Sp. p. 4584; Gaz. vol. 155; p. 810.

Borein, Charles A., Oakland, Cal. Water-heater. No. 975,824; Nov. 15; Sp. p. 3854; Gaz. vol. 160; p. 650.

Boreux, Armand, Basel, Switzerland. Photographic pocket-camera. No. 966,886; Aug. 9; Sp. p. 2291; Gaz. vol. 157; p. 375.

Borg, Charles W., Rock Island, Ill. Felly-finishing machine. No. 951,981; Mar. 15; Sp. p. 3093; Gaz. vol. 152; p. 558.

Borg, Charles W., Rock Island, Ill. Woodworking-machine. No. 965,983; Aug. 2; Sp. p. 292; Gaz. vol. 157; p. 48.

Borg, Charles W., Moline, Ill. Guide and chip-breaker for woodworking-machines. No. 965,984; Aug. 2; Sp. p. 298; Gaz. vol. 157; p. 49.

Borgen, Ole C., Sharon, N. D. Detachable boiler-flue. No. 973,471; Oct. 25; Sp. p. 4316; Gaz. vol. 159; p. 757.

Borgeson, Charles A., San Francisco, Cal. Sprinkler. No. 975,321; Nov. 8; Sp. p. 2806; Gaz. vol. 160; p. 453.

Borgfeldt, Richard, Metuchen, N. J. Cigar-wrapper cutter. No. 953,941; Apr. 5; Sp. p. 511; Gaz. vol. 153; p. 93.

Borgman, Bernard, Geneva, N. Y. Variable-speed transmission-gearing. No. 970,879; Sept. 20; Sp. p. 3723; Gaz. vol. 158; p. 636.

Borgmeyer, David H. (See Borgmeyer, Frank C., assignor.)

Borgmeyer, Frank C., St. Charles, Mo. Means for securing picture-moldings to walls. No. 950,365; Feb. 22; Sp. p. 5461; Gaz. vol. 151; p. 957.

Borgmeyer, Frank C., assignor of one-half to D. H. Borgmeyer, St. Charles, Mo. Bottle and lid. No. 949,644; Feb. 15; Sp. p. 3885; Gaz. vol. 151; p. 677.

Boring, Clement W. (See Locke and Boring.)

Boring, Robert E., Carlinville, Ill. Cushion-wheel. No. 969,596; Sept. 6; Sp. p. 961; Gaz. vol. 158; p. 152.

Böringer, August, Bensberg, Germany. Manufacturing composite tubes and other articles. No. 946,325; Jan. 11; Sp. p. 2891; Gaz. vol. 150; p. 480.

Borisz, Stephan, Robertsdale, Pa. Cuspidor. No. 968,320; Aug. 23; Sp. p. 5304; Gaz. vol. 157; p. 914.

Börjeson, Arvid A. H., and E. A. Fagerlund, Stockholm, Sweden. Cleaning-machine. No. 976,775; Nov. 22; Sp. p. 5928; Gaz. vol. 160; p. 1000.

Borland, Charles M., Echo, Oreg. Revolving hay rake and buncher. No. 951,675; Mar. 8; Sp. p. 2461; Gaz. vol. 152; p. 426.

Borlase, William, Dunedin, New Zealand. Variable-speed gearing. No. 966,303; Aug. 2; Sp. p. 964; Gaz. vol. 157; p. 154.

Borman, Herman C., Metropolis, Ill. Display-case. No. 971,719; Oct. 4; Sp. p. 435; Gaz. vol. 159; p. 76.

Borne, John F., Buffalo, N. Y. Folding rule. No. 955,314; Apr. 19; Sp. p. 3490; Gaz. vol. 153; p. 620.

Bornkessel, Paul, Mellenbach, Germany. Burner for glass-blowing apparatus. No. 972,153; Oct. 11; Sp. p. 1404; Gaz. vol. 159; p. 252.

Bornmann, Carl, New Haven, Conn., assignor to Ansco Company, Binghamton, N. Y. Winding-key for cameras. No. 970,603; Sept. 20; Sp. p. 3109; Gaz. vol. 158; p. 541.

Bornmueller, Edwin W., and P. C. Sachse, St. Louis, Mo. Radiator-mantel. No. 946,932; Jan. 18; Sp. p. 4325; Gaz. vol. 150; p. 710.

Bornot, André F., Philadelphia, Pa. Clothing-bag No. 952,181; Mar. 15; Sp. p. 3464; Gaz. vol. 152; p. 623.

Bornside, Harry B., Providence, R. I. Leather-compressing mechanism for shoe-finishing machines. No. 956,565; May 3; Sp. p. 119; Gaz. vol. 154; p. 22.

Borth, Daniel, Sr., Herried, S. D. Railway-tie. No. 951,230; Mar. 8; Sp. p. 1549; Gaz. vol. 152; p. 278.

Borup, Albert, Minneapolis, Minn. Belt-clamp. No. 974,637; Nov. 1; Sp. p. 1279; Gaz. vol. 160; p. 196.

Bos, Jacob H., Morris, Ind. Attachment for mail-cranes. No. 964,746; July 19; Sp. p. 3833; Gaz. vol. 156; p. 638.

Bosch, Carl, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of titanium-nitrogen compounds. No. 957,842; May 10; Sp. p. 2833; Gaz. vol. 154; p. 486.

Bosch, Carl, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Making ammonia. No. 957,843; May 10; Sp. p. 2834; Gaz. vol. 154; p. 486.

Bosch, Carl G., Cedar Rapids, Iowa. Air-heater. No. 957,862; May 17; Sp. p. 2888; Gaz. vol. 154; p. 524.

Bosley, Elijah M., St. Louis, Mo. Downdraft sectional boiler. No. 954,417; Apr. 12; Sp. p. 1527; Gaz. vol. 153; p. 280.

Boss, Floris. (See Nuberg, Mollien, and Boss.)

Boss, Martin P., San Francisco, Cal. Ore concentrator and classifier. No. 959,838; May 31; Sp. p. 7375; Gaz. vol. 154; p. 1249.

Bosse, Karl K. (See Thompson, Joseph C., assignor.)

Bossen, Fred, Platte, S. D. Harvester. No. 969,331; Sept. 6; Sp. p. 376; Gaz. vol. 158; p. 61.

Bossert, Charles P. (See Vogel and Bossert.)

Bossert, Charles P., Milwaukee, Wis. Separating device. No. 955,843; Apr. 26; Sp. p. 4657; Gaz. vol. 153; p. 829.

Bossert, Charles P., Milwaukee, Wis. Hair-grinding machine. No. 957,729; May 10; Sp. p. 2603; Gaz. vol. 154; p. 450.

Bossingham, John E., Canton, Ohio. Annealing-box. No. 951,556; Mar. 8; Sp. p. 2224; Gaz. vol. 152; p. 386.

Bostel, Carl, Cleveland, Ohio. Steering mechanism for flying-machines. No. 974,229; Nov. 1; Sp. p. 275; Gaz. vol. 160; p. 47.

Bostick, J. M., *et al.* (See Brown, Edward N., assignor.)

Bostock, Edwin, Stafford, England. Copying-lathe. No. 961,580; June 14; Sp. p. 2767; Gaz. vol. 155; p. 480.

Bostock, James G., New York, N. Y. Stage illusion. No. 976,143; Nov. 22; Sp. p. 4514; Gaz. vol. 160; p. 783.

Boston Braiding Company. (See Fredenburgh, George A., assignor.)

Boston Brick Company. (See Bennett and Parry, assignors.)

Boston Coupling Company. (See Barker, John J., assignor.)

Boston Machine Works Company. (See Cook, Miller, Jr., assignor.)

Boston Safety Switch Company. (See McManama, John W., assignor.)

Boston Wire Stitcher Company. (See Briggs, Thomas A., assignor.)

Bostrom, Carl F., *et al.* (See Wilson, Matthew, assignor.)

Bostrom, John W., *et al.* (See Wilson, Matthew, assignor.)

Bostwick, Arthur J., assignor of one-half to Eau Claire Mill Supply Co., Eau Claire, Wis. Stake-holder. No. 959,915; May 31; Sp. p. 7552; Gaz. vol. 154; p. 1275.

Alphabetical list of patentees—Continued.

Bostwick, Arthur J., assignor of one-half to Eau Claire Mill Supply Co., Eau Claire, Wis. Stake-holder. No. 959,916; May 31; Sp. p. 7553; Gaz. vol. 154; p. 1275.
Boswell, A. V., *et al.* (See Holmes, Frank M., assignor.)
Boswell, Beaury. (See Snow, Orto S., assignor.)
Boswell, Edmund N. (See Allner and Boswell.)
Boswell, George G. F., Indianapolis, Ind. Form for concrete cisterns, sewers, and the like. No. 952,066; Mar. 15; Sp. p. 3255; Gaz. vol. 152; p. 586.
Boswell, Robert A., Washington, D. C. Sound-conveying tube for talking-machines. No. 951,998; Mar. 15; Sp. p. 3128; Gaz. vol. 152; p. 564.
Boswell, Samuel H., Norwich, England. Apparatus for starting motor-car or the like engines. No. 970,604; Sept. 20; Sp. p. 3112; Gaz. vol. 158; p. 542.
Boswell, William C., assignor to J. Arnold, Rossville, Ga. Combined bobbin-holder and yarn-catcher. No. 964,084; July 12; Sp. p. 2328; Gaz. vol. 156; p. 383.
Bosworth, Percy B., assignor to Firestone Tire & Rubber Company, Akron, Ohio. Vehicle-tire. No. 977,585; Dec. 6; Sp. p. 394; Gaz. vol. 161; p. 57.
Bosworth, Percy B., assignor to Firestone Tire & Rubber Company, Akron, Ohio. Fastening means for vehicle-tires. No. 977,586; Dec. 6; Sp. p. 395; Gaz. vol. 161; p. 57.
Bosworth, Percy B., assignor to Firestone Tire & Rubber Company, Akron, Ohio. Detachable fastening for pneumatic tires. No. 977,587; Dec. 6; Sp. p. 396; Gaz. vol. 161; p. 58.
Bosworth, Percy B., assignor to Firestone Tire & Rubber Company, Akron, Ohio. Fastening device for vehicle-tires. No. 977,588; Dec. 6; Sp. p. 398; Gaz. vol. 161; p. 58.
Bosworth, Percy B., assignor to Firestone Tire & Rubber Company, Akron, Ohio. Fastening device for vehicle-tires. No. 977,589; Dec. 6; Sp. p. 399; Gaz. vol. 161; p. 58.
Bosworth, Percy B., assignor to Firestone Tire & Rubber Company, Akron, Ohio. Vehicle-wheel rim. No. 977,590; Dec. 6; Sp. p. 400; Gaz. vol. 161; p. 58.
Bosworth, Robert W. (See Killgore and Bosworth.)
Bots, Richard H., Syracuse, N. Y. Recovering naphthalene from gas. No. 968,509; Aug. 23; Sp. p. 5686; Gaz. vol. 157; p. 979.
Botten, Henry H. (See Fryett and Botten.)
Bottle, Edward K., Niagara Falls, N. Y., assignor to The Carter-Crume Company, Limited, Ontario, Canada. Manifolding-pad. No. 970,785; Sept. 20; Sp. p. 3537; Gaz. vol. 158; p. 605.
Bottle, Edward K., assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Manifolding-pad. No. 972,805; Oct. 18; Sp. p. 2804; Gaz. vol. 159; p. 501.
Bottle, Edward K., assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Manifolding sales-book. No. 973,746; Oct. 25; Sp. p. 4893; Gaz. vol. 159; p. 851.
Bottlers Machinery Manufacturing Company. (See Bastian, Charles L., assignor.)
Bottlers Machinery Manufacturing Company. (See Jaeger, Ludwig, assignor.)
Bottlers Machinery Manufacturing Company. (See Strasburger, Frank C. H., assignor.)
Bottlers' Seal Company. (See Stark and Turner, assignors.)
Bottomley, Samuel, Providence, R. I. Bandage. No. 959,704; May 31; Sp. p. 7081; Gaz. vol. 154; p. 1202.
Botts, Winfield J., Havre de Grace, Md. Figured toy. No. 955,376; Apr. 19; Sp. p. 3630; Gaz. vol. 153; p. 640.
Bouchard, Evariste, Providence, R. I. Mat. No. 961,929; June 21; Sp. p. 3511; Gaz. vol. 155; p. 620.
Bouchard, Jean-B., and G. A. Benoit, Chicopee Falls, Mass. Curtain-holder. No. 967,317; Aug. 16; Sp. p. 3176; Gaz. vol. 157; p. 549.
Bouchayer, Joseph A., Grenoble, France. Automatic apparatus for stopping the supply in case of a sudden emptying. No. 969,516; Sept. 6; Sp. p. 775; Gaz. vol. 158; p. 122.
Boucher, Albert V., *et al.* (See Fuller, Charles, assignor.)
Boucher, Alexander, Boston, Mass. Cigarette-tipping machine. No. 970,011; Sept. 13; Sp. p. 1878; Gaz. vol. 158; p. 320.
Boucher, Alexander, Hingham, Mass., assignor, by mesne assignments, to A. L. Boucher, New York, N. Y. Individual-cigarette-tipping machine. (Reissue.) No. 13,105; Apr. 19; Sp. p. 4649; Gaz. vol. 153; p. 803.
Boucher, Arthur L. (See Boucher, Alexander, assignor.) (Reissue.)
Boucher, Joseph J., assignor to Sterling Vehicle Company, Harvey, Ill. Shaft-packing. No. 973,850; Oct. 25; Sp. p. 5109; Gaz. vol. 159; p. 887.
Bouchet, Alphonse. (See Trimmer, Charles B., assignor.)
Bouchet, Maurice, Paris, France. Portable vulcanizing apparatus. No. 965,620; July 26; Sp. p. 5687; Gaz. vol. 156; p. 967.
Bouchet, Peter A., Merced, Cal. Well-boring machine. No. 970,880; Sept. 20; Sp. p. 3726; Gaz. vol. 158; p. 637.
Bouchsein, Max. (See Fried, Johann A., assignor.)
Boudreau, Peter, assignor of one-half to A. E. Guertin, Spokane, Wash. Clamp. No. 960,258; June 7; Sp. p. 29; Gaz. vol. 155; p. 9.
Boughton, Charles H. E., Chicago, Ill. Receptacle or the like. No. 964,844; July 19; Sp. p. 4034; Gaz. vol. 156; p. 672.
Boughton, Daniel H. (See Daly and Boughton.)
Boughton, Horace G., Cleveland, Ohio. Mixing and blending machine. No. 957,646; May 10; Sp. p. 2432; Gaz. vol. 154; p. 421.
Boulieu, John, assignor of one-half to J. R. Ryan, Sault Ste. Marie, Mich. Wrench. No. 972,052; Oct. 4; Sp. p. 1182; Gaz. vol. 159; p. 199.
Boulio, Henry, *et al.* (See Hawley, Adelbert, assignor.)
Boulware, Finis, Hatton, Mo. Game. No. 963,505; July 5; Sp. p. 1084; Gaz. vol. 156; p. 165.
Bouma, Nicholas, Freeport, Mich. Clamp. No. 952,182; Mar. 15; Sp. p. 3465; Gaz. vol. 152; p. 623.
Bounds, John W., and J. C. Ellenburg, Kannapolis, N. C., assignors to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Warp stop mechanism. No. 973,102; Oct. 18; Sp. p. 3505; Gaz. vol. 159; p. 605.
Bouniol, Joseph, Bridgeport, Conn. Sash-lock. No. 946,818; Jan. 18; Sp. p. 4048; Gaz. vol. 150; p. 671.
Bouquet, Francis L., *et al.* (See Woerner, Albert M., assignor.)
Bourcart, Edmund, Mülhausen, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Printing. No. 946,326; Jan. 11; Sp. p. 2892; Gaz. vol. 150; p. 480.
Bourdeau, Albert, Linwood, Mich. Beet-lifter. No. 954,610; Apr. 12; Sp. p. 1955; Gaz. vol. 153; p. 347.
Bourdelles, Emile, Paris, France. Torpedo. No. 958,990; May 24; Sp. p. 5595; Gaz. vol. 154; p. 941.
Bourne, Alfred. (See Earle and Bourne.)
Bourne, Theodore F., trustee. (See Waterhouse, Addison G., assignor.)
Bourquenez, Leon A., Botsford, Conn. Tire-plug. No. 962,615; June 28; Sp. p. 5030; Gaz. vol. 155; p. 880.
Bourquin, Elliott, Latta, S. C. Foot-treadle. No. 957,863; May 17; Sp. p. 2891; Gaz. vol. 154; p. 524.
Bourrelly, Henri. (See Anduaga and Bourrelly.)
Bousfield, Edward F. (See Rolston, John, assignor.)
Bousfield, John, *et al.* (See Epright, Alonzo W., assignor.)
Boushear, Henry, Fort William, Ontario, Canada. Watergage. No. 969,454; Sept. 6; Sp. p. 632; Gaz. vol. 158; p. 101.
Bouslog, Rawley H., Peru, Ind. Automatic time-computer. No. 958,584; May 17; Sp. p. 4725; Gaz. vol. 154; p. 776.
Bouslog, W. H. (See Lister, Levi H., assignor.)
Bousquet, Louis. (See Malivert, Jules E., assignor.)
Bousquet, Paul L., Akron, Ohio. Fabric. No. 974,855; Nov. 8; Sp. p. 1756; Gaz. vol. 160; p. 293.
Bousse, Emil, Berlin, Germany. Chain-grate furnace. No. 953,684; Apr. 5; Sp. p. 10; Gaz. vol. 153; p. 4.
Boutell Manufacturing Company. (See Boutell, William H., assignor.)
Boutell, William H., assignor to Boutell Manufacturing Company, Rochester, N. Y. Clutch. No. 953,118; Mar. 29; Sp. p. 5468; Gaz. vol. 152; p. 998.
Boutell, William H., assignor to Boutell Manufacturing Company, Rochester, N. Y. Apple-paring machine. No. 974,230; Nov. 1; Sp. p. 276; Gaz. vol. 160; p. 47.
Bouton, Georges. (See Dion and Bouton.)
Boutwell, Charles H., and M. Marshall, Rawson, Ohio. Pulley brake and grip. No. 969,835; Sept. 13; Sp. p. 1503; Gaz. vol. 158; p. 259.
Bouvier, Henri. (See Moyet and Bouvier.)
Bouvier, Nazaire, Montreal, Quebec, Canada. Fire-escape apparatus. No. 966,159; Aug. 2; Sp. p. 687; Gaz. vol. 157; p. 108.
Bovair, John, and D. Rieckhoff, Niagara Falls, N. Y. Horseshoe. No. 968,116; Aug. 23; Sp. p. 4847; Gaz. vol. 157; p. 842.
Bovard, Thomas M., Oakdale, Pa. Clothes-line reel. No. 967,601; Aug. 16; Sp. p. 3764; Gaz. vol. 157; p. 647.
Bové, Ramon, New York, N. Y. Hair-waving machine. No. 979,058; Dec. 20; Sp. p. 3538; Gaz. vol. 161; p. 619.
Bow, Lafayette T., Ardmore, Okla. Cotton-sampler's cabinet. No. 946,421; Jan. 11; Sp. p. 3189; Gaz. vol. 150; p. 513.
Bow Shock Absorbing Spring Company. (See Luxembourger, Nicholas, assignor.)
Bowcher, Henry E., Dawson, Yukon Territory, Canada. Hoisting apparatus. No. 955,940; Apr. 26; Sp. p. 4873; Gaz. vol. 153; p. 862.
Bowde, Paul W., Waukesha, Wis. Window-sash. No. 979,741; Dec. 27; Sp. p. 5024; Gaz. vol. 161; p. 877.
Bowden, Junius A., Los Angeles, Cal. Tire. No. 978,549; Dec. 13; Sp. p. 2442; Gaz. vol. 161; p. 420.
Bowditch, John F., Boston, Mass. Brush. No. 951,432; Mar. 8; Sp. p. 1973; Gaz. vol. 152; p. 343.
Bowditch, Nathaniel, Aurora, Ill. Manually-operated cotton-picker. No. 972,324; Oct. 11; Sp. p. 1756; Gaz. vol. 159; p. 309.
Bowdle, George F., Piqua, Ohio. Friction disk clutch. No. 971,168; Sept. 27; Sp. p. 4326; Gaz. vol. 158; p. 759.
Bowen, Alonzo W., Neola, Iowa. End-gate for wagons. No. 954,075; Apr. 5; Sp. p. 789; Gaz. vol. 153; p. 137.
Bowen, Clarence C. (See Coffey and Bowen.)

Alphabetical list of patentees—Continued.

Bowen, David R., assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Pressure-regulating device for roller-mills. No. 974,349; Nov. 1; Sp. p. 616; Gaz. vol. 160; p. 93.

Bowen, Ernest S., assignor of one-half to W. L. Fay, Geneva, N. Y. Explosive-engine. No. 961,581; June 14; Sp. p. 2771; Gaz. vol. 155; p. 480.

Bowen, Pardon M., Jr. (See Hazelrigg, Ross, assignor.)

Bowen, Philip A., Newark, N. J., assignor to The Heinn Company, Milwaukee, Wis. Sectional post-binder ball-lock. No. 962,416; June 28; Sp. p. 4585; Gaz. vol. 155; p. 811.

Bowen, Philip A., assignor of one-half to J. J. Steinharter, Newark, N. J. Safety-razor. No. 965,862; Aug. 2; Sp. p. 28; Gaz. vol. 157; p. 7.

Bowen, Robert A., Colfax, Wash. Pipe-wrench. No. 978,818; Dec. 13; Sp. p. 2999; Gaz. vol. 161; p. 508.

Bowen, Russell H. (See Brinley and Bowen.)

Bowen, Russell H., Palmyra, N. J., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 959,424; May 24; Sp. p. 6466; Gaz. vol. 154; p. 1083.

Bowen, William M., assignor of one-third to A. E. Morphy and one-third to J. Martell, Ottawa, Ontario, Canada. Air-moistening device. No. 967,867; Aug. 16; Sp. p. 4291; Gaz. vol. 157; p. 734.

Bower, Jerome G., Chicago, Ill., assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-side construction. No. 948,659; Feb. 8; Sp. p. 1861; Gaz. vol. 151; p. 321.

Bower, Jerome G., Chicago, Ill., assignor to Pressed Steel Car Company, Pittsburg, Pa. Railway-car underframe. No. 951,934; Mar. 15; Sp. p. 3003; Gaz. vol. 152; p. 544.

Bower, Robert A., Chicago, Ill. Head-envelop. No. 975,745; Nov. 15; Sp. p. 3700; Gaz. vol. 160; p. 623.

Bower, Samuel M., Chicago, Ill. Walking traction-wheel. No. 975,117; Nov. 8; Sp. p. 2354; Gaz. vol. 160; p. 383.

Bowerbank, Albert W. (See Parsons and Bowerbank.)

Bowerbank, Albert W. (See Parsons, Stoney, Carnegie, and Bowerbank.)

Bowerman, William K., Los Angeles, Cal. Wave-motor. No. 974,948; Nov. 8; Sp. p. 1977; Gaz. vol. 160; p. 326.

Bowers, Albert H., Perth Amboy, N. J. Hair-waver. No. 951,798; Mar. 15; Sp. p. 2723; Gaz. vol. 152; p. 497.

Bowers, Alonzo E., assignor to Indianapolis Corrugating Company, Indianapolis, Ind. Roof ornament. No. 946,102; Jan. 11; Sp. p. 2409; Gaz. vol. 150; p. 401.

Bowers, Charles E., Philadelphia, Pa. Cuspidor. No. 979,924; Dec. 27; Sp. p. 5425; Gaz. vol. 161; p. 938.

Bowers, Doctor C., assignor of one-half to I. I. Iliff, Chelsea, Okla. Neck-yoke. No. 974,115; Nov. 1; Sp. p. 19; Gaz. vol. 160; p. 6.

Bowers, George W., Somerville, Mass., assignor, by mesne assignments, to Hammel, Riglander & Co., New York, N. Y. Hair-spring gage. No. 945,441; Jan. 4; Sp. p. 936; Gaz. vol. 150; p. 147.

Bowers, George W., Somerville, Mass., assignor, by mesne assignments, to Hammel, Riglander & Co., New York, N. Y. Hinge-pin remover. No. 945,442; Jan. 4; Sp. p. 937; Gaz. vol. 150; p. 147.

Bowers, George W., Somerville, assignor to C. S. Marsh, Winchester, Mass. Coin-controlled weighing-machine. No. 979,372; Dec. 20; Sp. p. 4216; Gaz. vol. 161; p. 727.

Bowers, James A., Lancaster, Pa. Engraver's block. No. 973,617; Oct. 25; Sp. p. 4629; Gaz. vol. 159; p. 805.

Bowers, John A. (See Bowers, Roy E., assignor.)

Bowers, John C., Spokane, Wash. Buckle. No. 977,999; Dec. 6; Sp. p. 1247; Gaz. vol. 161; p. 199.

Bowers, John D., and L. Mayhue, Salt Lake City, Utah. Phonograph. No. 968,530; Aug. 30; Sp. p. 5736; Gaz. vol. 157; p. 1011.

Bowers, Lewis C., Boise, Idaho. Nozzle. No. 978,835; Dec. 20; Sp. p. 3038; Gaz. vol. 161; p. 540.

Bowers, Roy E., Hartville, Ohio, assignor to J. A. Bowers, Payette, Idaho. Steering-wheel for automobiles. No. 959,298; May 24; Sp. p. 6234; Gaz. vol. 154; p. 1043.

Bowersox, Charles A., *et al.* (See Newman, Eugene E., assignor.)

Bowersox, Charles R., *et al.* (See Newman, Eugene E., assignor.)

Bowes, William M. (See Chapin, Alfred K., assignor.)

Bowhay, Arnold A. (See Ware, James F., assignor.)

Bowie, John C., Cardiff, England, and J. H. Phelps, Yokohama, Japan. Apparatus for lighting miners' safety-lamps. No. 972,675; Oct. 11; Sp. p. 2533; Gaz. vol. 159; p. 431.

Bowler, Frederick W. (See Bellinger, James G., assignor.)

Bowles, Fred C., Groton, S. D. Coupling. No. 956,753; May 3; Sp. p. 547; Gaz. vol. 154; p. 87.

Bowles, Fred L., Jersey City, N. J. Mechanical movement. No. 946,198; Jan. 11; Sp. p. 2613; Gaz. vol. 150; p. 434.

Bowlker, Thomas J., Boston, Mass. Apparatus for submarine signaling. No. 964,380; July 12; Sp. p. 2916; Gaz. vol. 156; p. 481.

Bowlus, Warren L., Springfield, Ill. Stamp-affixing machine. No. 946,327; Jan. 11; Sp. p. 2892; Gaz. vol. 150; p. 480.

Bowman, Adam K. (See Johnston and Bowman.)

Bowman, Charles T. (See Kreuzkamp and Bowman.)

Bowman, George A., and C. L. Harmeyer, Fort Wayne, Ind. Locomotive-strainer. No. 946,199; Jan. 11; Sp. p. 2614; Gaz. vol. 150; p. 434.

Bowman, Henry W., Barbourville, Ky. Head-rest for car-seats. No. 971,428; Sept. 27; Sp. p. 4822; Gaz. vol. 158; p. 844.

Bowman, Henry W., assignor of one-half to J. R. Tuggle, Barbourville, Ky. Head-rest for car-seats. No. 969,030; Aug. 30; Sp. p. 6786; Gaz. vol. 157; p. 1183.

Bowman, J. W. (See Motter, Harry P., assignor.)

Bowman, Joseph L., Quinter, Kans. Hay-stacker. No. 966,304; Aug. 2; Sp. p. 967; Gaz. vol. 157; p. 154.

Bowman, Lloyd, Fort Worth, Tex. Matrices and blanks for making tablets. No. 973,851; Oct. 25; Sp. p. 5112; Gaz. vol. 159; p. 888.

Bowman, Newton K., North Lawrence, Ohio. Copy-holder. No. 953,456; Mar. 29; Sp. p. 6195; Gaz. vol. 152; p. 1111.

Bowman, Robert H., Canon City, Colo. Chain driving-gear. No. 951,721; Mar. 8; Sp. p. 2527; Gaz. vol. 152; p. 440.

Bowman, Robert L., Knoxville, Tenn. Coin-controlled telephone. No. 956,754; May 3; Sp. p. 548; Gaz. vol. 154; p. 87.

Bowman, Walter H., Dover, N. H. Compacting-machine. No. 964,203; July 12; Sp. p. 2558; Gaz. vol. 156; p. 422.

Bowman, Walter H., Dover, N. H. Apparatus for testing soils and for other purposes. No. 966,078; Aug. 2; Sp. p. 505; Gaz. vol. 157; p. 81.

Bowman, William J. J., Trenton, N. J. Urinal. No. 946,851; Jan. 18; Sp. p. 4127; Gaz. vol. 150; p. 683.

Bown, Charles T., and T. E. Smith, Pittsburg, Pa. Faucet. No. 957,647; May 10; Sp. p. 2436; Gaz. vol. 154; p. 421.

Bown, David E., Pittsburg, Pa. Socket for incandescent electric lamps. No. 949,517; Feb. 15; Sp. p. 3641; Gaz. vol. 151; p. 634.

Bowne, Edward. (See Smith, Willis E., assignor.)

Bowser, Allen A., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Faucet. No. 964,486; July 19; Sp. p. 3143; Gaz. vol. 156; p. 547.

Bowser, Allen A., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Faucet. No. 964,487; July 19; Sp. p. 3148; Gaz. vol. 156; p. 548.

Bowser, Milo F., Renfrew, Pa. Rail-fastener for metallic ties. No. 950,989; Mar. 1; Sp. p. 1094; Gaz. vol. 152; p. 176.

Bowser, Sylvanus F., Fort Wayne, Ind. Massage device. No. 961,479; June 14; Sp. p. 2552; Gaz. vol. 155; p. 447.

Bowser, Virgil C., Monroe, Ind. Gage-lifting attachment for corn-planters. No. 970,605; Sept. 20; Sp. p. 3113; Gaz. vol. 158; p. 542.

Bowsher, Jay C., South Bend, Ind. Grinding-mill. No. 947,275; Jan. 25; Sp. p. 5038; Gaz. vol. 150; p. 851.

Bowslaugh, Edward W., North Grimsby township, Lincoln county, Ontario, Canada. System for land draining. No. 978,836; Dec. 20; Sp. p. 3039; Gaz. vol. 161; p. 541.

Box Office Ticket Printing Machine Company. (See Vaughan, Thomas M., assignor.)

Boyce, Harry R., *et al.* (See Saldin, Max, assignor.)

Boyce, John A., Springfield, Ill. Apparatus for associating, cutting, collecting, folding, and delivering newspapers. No. 950,014; Feb. 22; Sp. p. 4753; Gaz. vol. 151; p. 839.

Boyce, John A., Springfield, Ill. Printing-machine. No. 950,015; Feb. 22; Sp. p. 4766; Gaz. vol. 151; p. 840.

Boyce, John A., Springfield, Ill. Printing and folding machine. No. 963,203; July 5; Sp. p. 442; Gaz. vol. 156; p. 63.

Boyce, John A., Springfield, Ill. Apparatus for printing and folding papers. No. 974,231; Nov. 1; Sp. p. 279; Gaz. vol. 160; p. 47

Boyce, John E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Means for operating elevator-door locks. No. 952,698; Mar. 22; Sp. p. 4561; Gaz. vol. 152; p. 829.

Boyce, John H., *et al.* (See Saldin, Max, assignor.)

Boyce, Samuel F., Schenectady, assignor of one-half to R. E. Powell, New York, N. Y. Vehicle-brake. No. 951,174; Mar. 8; Sp. p. 1437; Gaz. vol. 152; p. 261.

Boyd, Abraham W., *et al.* (See Brown, Mark A., assignor.)

Boyd, Andrew, assignor of one-third to J. Krebs, New York, N. Y. Horse-overshoe. No. 963,506; July 5; Sp. p. 1086; Gaz. vol. 156; p. 165.

Boyd, Bertron K., Owosso, Mich. Folding crate. No. 951,902; Mar. 15; Sp. p. 2943; Gaz. vol. 152; p. 532.

Boyd, Charley A., Spencer, N. C. Feed-bag. No. 970,299; Sept. 13; Sp. p. 2477; Gaz. vol. 158; p. 417.

Boyd, Edward F. (See Close, Edmund E., assignor.)

Boyd, Edward L., Cashmere, Wash. Ladder. No. 973,103; Oct. 18; Sp. p. 3507; Gaz. vol. 159; p. 606.

Boyd, Elmer E., Aspinwall, Pa. Trunk. No. 953,815; Apr. 5; Sp. p. 270; Gaz. vol. 153; p. 48.

Boyd, Frederic R. C., Lynn, Mass., assignor to General Electric Company. Emergency governing mechanism for turbines. No. 960,259; June 7; Sp. p. 30; Gaz. vol. 155; p. 9.

Boyd, Frederic R. C., Lynn, Mass., assignor to General Electric Company. Leakage-reducing means for turbines. No. 969,517; Sept. 6; Sp. p. 776; Gaz. vol. 158; p. 122.

Boyd, George, Winona, Minn. Bell-ringing mechanism. No. 960,067; May 31; Sp. p. 7917; Gaz. vol. 154; p. 1329.

Alphabetical list of patentees—Continued.

Boyd, Harold A. (See Boyd, Thomas A. and H. A.)
Boyd, Isreal A., Baltimore, Md. Window. No. 959,989; May 31; Sp. p. 7725; Gaz. vol. 154; p. 1302.
Boyd, James C., assignor of one-half to C. W. Hays, Pittsburg, Pa. Propeller. No. 950,990; Mar. 1; Sp. p. 1096; Gaz. vol. 152; p. 176.
Boyd, James T., Springville, Miss. Plow. No. 969,243; Sept. 6; Sp. p. 203; Gaz. vol. 158; p. 33.
Boyd, James T., Springville, Miss. Combination plow and harrow. No. 971,592; Oct. 4; Sp. p. 177; Gaz. vol. 159; p. 32.
Boyd, John, Bothwell, assignor of one-half to D. Phillips and James Scott & Sons (Limited), Dundee, Scotland. Mechanism for guiding and tensioning spindle-driving bands. No. 969,768; Sept. 13; Sp. p. 1334; Gaz. vol. 158; p. 236.
Boyd, John D., Pittsburg, Tex. Tripod. No. 964,381; July 12; Sp. p. 2918; Gaz. vol. 156; p. 481.
Boyd, John H., Carlisle, Pa. Curtain-pole. No. 964,204; July 12; Sp. p. 2561; Gaz. vol. 156; p. 422.
Boyd, John W., Mishawaka, assignor to Fabric Roll Protector Co., South Bend, Ind. Ladder-bracket. No. 978,550; Dec. 13; Sp. p. 2445; Gaz. vol. 161; p. 420.
Boyd, Lawrence V., and F. W. Kramer, Philadelphia, Pa. Toy house. No. 972,498; Oct. 11; Sp. p. 2125; Gaz. vol. 159; p. 370.
Boyd, Louisa, Stuart, Iowa. Sewing-machine attachment. No. 946,485; Jan. 11; Sp. p. 3328; Gaz. vol. 150; p. 535.
Boyd, Moody, Louisville, Ky. Screw-driver. No. 963,204; July 5; Sp. p. 465; Gaz. vol. 156; p. 64.
Boyd, Robert E., Birmingham, England. Rimless eye-glasses and spectacles. No. 972,053; Oct. 4; Sp. p. 1183; Gaz. vol. 159; p. 199.
Boyd, Robert L., Alexandria, La. Load-binder. (Reissue.) No. 13,164; Nov. 8; Sp. p. 2944; Gaz. vol. 160; p. 474.
Boyd, Slemmons T., Sloan, Iowa. Automobile spring-hub. No. 948,388; Feb. 8; Sp. p. 1287; Gaz. vol. 151; p. 231.
Boyd, Thomas A. and H. A., Shettleston, Scotland. Spinning and twisting frame. No. 959,198; May 24; Sp. p. 6036; Gaz. vol. 154; p. 1009.
Boyd, Wheeler, Idaho Springs, Colo. Revolving hammer. No. 956,515; May 3; Sp. p. 17; Gaz. vol. 154; p. 6.
Boyd, William, assignor of one-half to J. Keiller and Son Lt'd., Dundee, Scotland. Heating cream used for making fondants, chocolate centers, and the like. No. 978,131; Dec. 13; Sp. p. 1556; Gaz. vol. 161; p. 276.
Boydell, James, Sudbury, Ontario, Canada. Boat fender-brake. No. 959,299; May 24; Sp. p. 6235; Gaz. vol. 154; p. 1043.
Boyden, Nathaniel N. (See Crowley, John R., assignor.)
Boydston, Anna M., and C. A. Cowden, Toledo, Ohio. Loom. No. 951,935; Mar. 15; Sp. p. 3005; Gaz. vol. 152; p. 545.
Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Commodity-cabinet. No. 946,852; Jan. 18; Sp. p. 4128; Gaz. vol. 150; p. 683.
Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Cabinet for needle-packages, &c. No. 946,873; Jan. 18; Sp. p. 4195; Gaz. vol. 150; p. 691.
Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Package. No. 948,645; Feb. 8; Sp. p. 1837; Gaz. vol. 151; p. 316.
Boye, James H., assignor to Boye Needle Company, Chicago, Ill. Commodity-cabinet. No. 972,499; Oct. 11; Sp. p. 2127; Gaz. vol. 159; p. 370.
Boye Needle Company, The. (See Boye, James H., assignor.)
Boyer, Charles A., Marengo, Ill. Rural-carrier's cabinet. No. 945,014; Jan. 4; Sp. p. 7; Gaz. vol. 150; p. 4.
Boyer, Edward B. (See Boyer, Horace R. and E. B.)
Boyer, Edwin, Grainfield, Kans. Attachment for sulky-plows. No. 955,496; Apr. 19; Sp. p. 3885; Gaz. vol. 153; p. 682.
Boyer, George F., Spencerville, Ohio. Egg-turning tray for incubators. No. 973,104; Oct. 18; Sp. p. 3508; Gaz. vol. 159; p. 606.
Boyer, Henry J., Vollmer, Idaho. Threshing-machine feeder. No. 955,046; Apr. 12; Sp. p. 2937; Gaz. vol. 153; p. 497.
Boyer, Henry J., Dubois, Pa. Carpet-holder. No. 965,365; July 26; Sp. p. 5112; Gaz. vol. 156; p. 877.
Boyer, Henry W., *et al.* (See Spencer, Oliver H. P. G., assignor.)
Boyer, Horace R. and E. B., Philadelphia, Pa. Railway-switch and operating means therefor. No. 946,328; Jan. 11; Sp. p. 2899; Gaz. vol. 150; p. 480.
Boyer, Jacob O. (See Boyer, Jonathan L., M. L., and J. O.)
Boyer, Jesse I., assignor to Reading Iron Company, Reading, Pa. Hydraulic cap mechanism for sugar-cane mills. No. 976,144; Nov. 22; Sp. p. 4515; Gaz. vol. 160; p. 783.
Boyer, John B., assignor to The Thomas Mfg. Co., Dayton, Ohio. Noodle-cutter. No. 963,682; July 5; Sp. p. 1432; Gaz. vol. 156; p. 225.
Boyer, John S. (See Dorton and Boyer.)
Boyer, Jonathan L., Hamilton, M. L. Boyer, Colusa, and J. O. Boyer, Pontoosuc, Ill. Journal-bearing. No. 955,248; Apr. 19; Sp. p. 3353; Gaz. vol. 153; p. 598.
Boyer, Malain L. (See Boyer, Jonathan L., M. L., and J. O.)
Boyer, Oram A., Harrisburg, Pa. Elastic-fluid turbine. No. 960,260; June 7; Sp. p. 34; Gaz. vol. 155; p. 9.
Boyer, Richard M. (See Scott and Boyer.)
Boyer, William J., Denver, Colo. Car-sheathing. No. 968,321; Aug. 23; Sp. p. 5305; Gaz. vol. 157; p. 914.
Boykin, Christopher C., assignor of two-thirds to Tidewater Specialty Company, Norfolk, Va. Roller window-screen. No. 962,302; June 21; Sp. p. 4330; Gaz. vol. 155; p. 748.
Boylan, Sam H., Colorado Springs, Colo. Slime-concentrator. No. 976,430; Nov. 22; Sp. p. 5196; Gaz. vol. 160; p. 883.
Boyland, Alvah O., Aurora, Nebr. Clasp. No. 948,917; Feb. 8; Sp. p. 2390; Gaz. vol. 151; p. 407.
Boyle, Dad, Amarillo, Tex. Vending-wagon. No. 960,802; June 7; Sp. p. 1138; Gaz. vol. 155; p. 190.
Boyle, James E., Lancaster, Pa. Mail-bag catching and delivering apparatus. No. 970,606; Sept. 20; Sp. p. 3114; Gaz. vol. 158; p. 542.
Boyle, James M., New York, N. Y. Electrical receiving apparatus. No. 962,417; June 28; Sp. p. 4589; Gaz. vol. 155; p. 811.
Boyle, Thomas V., Cleveland, Ohio. Graduated spacing-table. No. 945,687; Jan. 4; Sp. p. 1454; Gaz. vol. 150; p. 227.
Boyler, Emanuel J., assignor of one-half to J. H. Alford, Ottawa, Ontario, Canada. Buttonhole-stitching attachment for sewing-machines. No. 976,431; Nov. 22; Sp. p. 5204; Gaz. vol. 160; p. 884.
Boylston Manufacturing Company, The. (See Ballard, Harrie A., assignor.)
Boynton, Eben M., West Newbury, Mass. Means for protecting and preserving ice. No. 964,143; July 12; Sp. p. 2450; Gaz. vol. 156; p. 403.
Boynton, Eben M., West Newbury, Mass. Railway traction member. No. 976,543; Nov. 22; Sp. p. 5451; Gaz. vol. 160; p. 921.
Boynton, Eben M., West Newbury, Mass. Traction-rail. No. 976,544; Nov. 22; Sp. p. 5453; Gaz. vol. 160; p. 921.
Boynton, Eben M., West Newbury, Mass. Apparatus for treating traction members. No. 976,627; Nov. 22; Sp. p. 5616; Gaz. vol. 160; p. 950.
Boynton, Eben M., West Newbury, Mass. Railway system. No. 976,628; Nov. 22; Sp. p. 5617; Gaz. vol. 160; p. 950.
Boynton, Ernest W. (See Beattie, Boynton, and Churchill.)
Boynton Furnace Company. (See Rouse, Richard, Jr., assignor.)
Boys, Charles V., and J. W. Tierney, London, England. Construction of and means for actuating the dabbers of wool-combing machines. No. 955,752; Apr. 19; Sp. p. 4453; Gaz. vol. 153; p. 768.
Boyse, Clement W., assignor of one-half to D. B. Carmichael, Chicago, Ill. Lamp. No. 976,117; Nov. 15; Sp. p. 4433; Gaz. vol. 160; p. 751.
Boysen, Boy S. (See Miller, Leonard, assignor.)
Boysen, Oscar P. (See Colgen and Boysen.)
Bozarth, Elihu, Alvin, Ill. Wheel. No. 945,688; Jan. 4; Sp. p. 1455; Gaz. vol. 150; p. 227.
Bozile, Charles, assignor of one-half to G. Bozile, Manawa, Wis. Combined vine-thresher and stalk-cutter. No. 975,603; Nov. 15; Sp. p. 3390; Gaz. vol. 160; p. 576.
Bozile, George. (See Bozile, Charles, assignor.)
Brabaw, Michael, Pearlbeach, Mich. Fly-paper holder. No. 966,887; Aug. 9; Sp. p. 2292; Gaz. vol. 157; p. 376.
Brabham, John A., assignor of two-thirds to W. S. Robertson, Frederick, Okla., and J. B. Green, Charleston, Tenn. Crude-oil burner. No. 951,722; Mar. 8; Sp. p. 2528; Gaz. vol. 152; p. 440.
Brabrook, George H., Taunton, Mass. Coating or facing molds. No. 972,325; Oct. 11; Sp. p. 1758; Gaz. vol. 159; p. 309.
Brabrook, George H., Taunton, Mass. Asbestos mold. No. 972,990; Oct. 18; Sp. p. 3270; Gaz. vol. 159; p. 569.
Brabson, Frank. (See Stanley, James, assignor.)
Brace, Henry P., Chicago, Ill. Street-indicator. No. 960,803; June 7; Sp. p. 1141; Gaz. vol. 155; p. 191.
Bracher, Karl A. A., Toronto, Ontario, Canada. Billiard-table. No. 949,563; Feb. 15; Sp. p. 3743; Gaz. vol. 151; p. 650.
Brackbill, Amos B., Salunga, Pa. Automatic headlight-adjuster. No. 945,369; Jan. 4; Sp. p. 795; Gaz. vol. 150; p. 122.
Bracy, Edward L., Scotland Neck, assignor to R. H. Wright, Durham, N. C. Machine for making paper bags and for packeting tobacco and other materials. No. 956,623; May 3; Sp. p. 248; Gaz. vol. 154; p. 42.
Bradberry, Frederick J., Mitchell, S. D. Reversing-gear. No. 964,382; July 12; Sp. p. 2920; Gaz. vol. 156; p. 482.
Bradburn, Charles F., Delmer, Ontario, Canada. Telephone apparatus. No. 957,489; May 10; Sp. p. 2116; Gaz. vol. 154; p. 367.
Bradburn, Charles F., Delmer, Ontario, Canada. Telephone apparatus. No. 957,490; May 10; Sp. p. 2121; Gaz. vol. 154; p. 368.
Bradburn, Charles F., Delmer, Ontario, Canada. Telephone system. No. 957,491; May 10; Sp. p. 2125; Gaz. vol. 154; p. 368.
Bradbury, Clifford C. (See Lawver and Bradbury.)

Bradbury, Clifford C., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Party-line-indicating system. No. 971,352; Sept. 27; Sp. p. 4688; Gaz. vol. 158; p. 820.

Bradbury, Clifford C., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 975,504; Nov. 15; Sp. p. 3179; Gaz. vol. 160; p. 541.

Bradbury, Fred R., East Brownfield, Me. Device for greasing cooking utensils. No. 956,929; May 3; Sp. p. 929; Gaz. vol. 154; p. 148.

Bradbury, Frederick G., administrator. (See Brainard, Julius D.)

Braddock, Edward I., Winchester, Mass. Fastening device. No. 945,370; Jan. 4; Sp. p. 796; Gaz. vol. 150; p. 123.

Braddock, James S., *et al.* (See Lindsay, Franklin G., assignor.)

Braddock, James S., Mount Pleasant, and F. G. Lindsay, Scottdale, Pa.; said Lindsay assignor to The Lindsay Company, "Registered", Mount Pleasant, Pa. Convertible railway-car. No. 967,318; Aug. 16; Sp. p. 3178; Gaz. vol. 157; p. 550.

Braddock, Kent K., San Francisco, Cal. Drag-scraper. No. 967,319; Aug. 16; Sp. p. 3180; Gaz. vol. 157; p. 550.

Braden, John R., Rowan, Iowa. Grain-loading machine. No. 962,194; June 21; Sp. p. 4108; Gaz. vol. 155; p. 713.

Bradfield, Elmer E., Livermore, Cal. Plow. No. 955,047; Apr. 12; Sp. p. 2939; Gaz. vol. 153; p. 498.

Bradfield, George K., Hackensack, N. J., assignor to Vacuum Oil Company, Rochester, N. Y. Lamp. No. 965,863; Aug. 2; Sp. p. 32; Gaz. vol. 157; p. 8.

Bradford, Alexander O., Boston, Mass. Hydrocarbon-burner. No. 953,685; Apr. 5; Sp. p. 13; Gaz. vol. 153; p. 5.

Bradford, Charles E., Lakeview, Wash. Trolley-pole. No. 960,152; May 31; Sp. p. 8068; Gaz. vol. 154; p. 1356.

Bradford, Ernest W., *et al.* (See Webster, Hyleman A., assignor.)

Bradford, John G., and P. Meeting, Anadarko, Okla. Cabinet show-case. No. 946,004; Jan. 11; Sp. p. 2216; Gaz. vol. 150; p. 368.

Bradford Machine Tool Company, The. (See Blum, Johnson, and Kropf, assignors.)

Bradford, Thomas, Danielson, Conn. Gearing for reed-making machines. No. 950,431; Feb. 22; Sp. p. 5589; Gaz. vol. 151; p. 979.

Bradley, Charles H., Ensley, Ala. Blast-furnace. No. 967,602; Aug. 16; Sp. p. 3765; Gaz. vol. 157; p. 647.

Bradley, Charles S., New York, N. Y. Apparatus for ozonifying. No. 971,244; Sept. 27; Sp. p. 4489; Gaz. vol. 158; p. 785.

Bradley, Christopher C., Sr. (See Strodel, Frank A., assignor.)

Bradley, Edward H., Layton, Pa. Brick-kiln. No. 966,991; Aug. 9; Sp. p. 2500; Gaz. vol. 157; p. 411.

Bradley, Frank E. and J. S., Corona, Cal. Cultivator-tooth. No. 949,696; Feb. 15; Sp. p. 3974; Gaz. vol. 151; p. 692.

Bradley, Frank S., West Haven, Conn. Hacksaw-machine. No. 968,026; Aug. 23; Sp. p. 4650; Gaz. vol. 157; p. 812.

Bradley, George, Grants Pass, Oreg. Pipe. No. 955,048; Apr. 12; Sp. p. 2941; Gaz. vol. 153; p. 498.

Bradley, George O., Salt Lake City, Utah. Car-dump. No. 948,038; Feb. 1; Sp. p. 539; Gaz. vol. 151; p. 87.

Bradley, Harry, New Britain, Conn. Dial-holder for knitting-machines. No. 953,367; Mar. 29; Sp. p. 6009; Gaz. vol. 152; p. 1080.

Bradley, Herbert E., Kalispell, Mont. Running-gear for vehicles. No. 975,392; Nov. 15; Sp. p. 2959; Gaz. vol. 160; p. 502.

Bradley, John S. (See Bradley, Frank E. and J. S.)

Bradley, John W., assignor of one-half to J. E. Zickrick, Seattle, Wash. Internal-combustion engine. No. 961,677; June 14; Sp. p. 2967; Gaz. vol. 155; p. 513.

Bradley, Joseph, Los Angeles, Cal. Rail-retainer. No. 955,315; Apr. 19; Sp. p. 3492; Gaz. vol. 153; p. 620.

Bradley, Joseph H., *et al.* (See Whipple, Charles R., assignor.)

Bradley, Joseph H., Hunwick, E. Nichol, Croxdale, and T. L. Nichol, Sunderland, England. Artificial foot. No. 961,582; June 14; Sp. p. 2773; Gaz. vol. 155; p. 481.

Bradley, Leonard S., *et al.* (See Shattuck, Wilmer H., assignor.)

Bradley, Raymond R., Minneapolis, Minn., assignor to Allis-Chalmers Company, Milwaukee, Wis. Drier-room floor. No. 965,366; July 26; Sp. p. 5113; Gaz. vol. 156; p. 877.

Bradley, S. Prescott. (See Watry, Mathias, assignor.)

Bradley Stencil Machine Company. (See Hartog, Stephen D., assignor.)

Bradley, Stephen L., Sandwich, Mass. Metal-shears. No. 950,039; Feb. 22; Sp. p. 4825; Gaz. vol. 151; p. 848.

Bradley, Stephen R., South Nyack, assignor to The Fibre Conduit Company, Orangeburg, N. Y. Manufacturing pulp pipe. No. 966,729; Aug. 9; Sp. p. 1917; Gaz. vol. 157; p. 324.

Bradley, William A., Spokane, Wash. Jig. No. 957,648; May 10; Sp. p. 2437; Gaz. vol. 154; p. 422.

Bradley, William A., Spokane, Wash. Operating mechanism for ore-jigs. No. 979,253; Dec. 20; Sp. p. 4007; Gaz. vol. 161; p. 689.

Bradley, William F., Toledo, Ohio. Concrete tie. No. 976,341; Nov. 22; Sp. p. 5007; Gaz. vol. 160; p. 850.

Bradley, William H., Chicago, Ill. Separator. No. 962,117; June 21; Sp. p. 3933; Gaz. vol. 155; p. 685.

Bradley, William H., Chicago, Ill. Drying apparatus. No. 962,118; June 21; Sp. p. 3938; Gaz. vol. 155; p. 686.

Bradley, William H., Chicago, Ill. Peat-preparing process. No. 962,119; June 21; Sp. p. 3941; Gaz. vol. 155; p. 686.

Bradley, William H., Chicago, Ill. Peat-preparing apparatus. No. 962,120; June 21; Sp. p. 3946; Gaz. vol. 155; p. 687.

Bradley, William H., Half Moon Bay, Cal. Oil-burner. No. 970,300; Sept. 13; Sp. p. 2478; Gaz. vol. 158; p. 417.

Bradshaw, Joseph B., Manchester, England. Wheel rim or felly for pneumatic or solid tires. No. 948,267; Feb. 1; Sp. p. 989; Gaz. vol. 151; p. 163.

Bradshaw, Richard A., Van Alstyne, Tex. Nut-lock. No. 955,577; Apr. 19; Sp. p. 4037; Gaz. vol. 153; p. 708.

Bradshaw, Samuel P., Pittsfield, Mass. Skidding device for railway-cars. No. 961,098; June 14; Sp. p. 1738; Gaz. vol. 155; p. 316.

Bradshaw, William M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed-changing device. No. 963,743; July 12; Sp. p. 1595; Gaz. vol. 156; p. 268.

Bradt, Garret, Canajoharie, N. Y. Cutter-bar for harvesters. No. 946,005; Jan. 11; Sp. p. 2218; Gaz. vol. 150; p. 368.

Bradt, Lewis E., Santa Monica, Cal. Trolley-harp. No. 971,485; Sept. 27; Sp. p. 4928; Gaz. vol. 158; p. 862.

Brady, Francis W., Englewood, N. J. Internal-combustion engine. No. 947,633; Jan. 25; Sp. p. 5863; Gaz. vol. 150; p. 973.

Brady, Francis W., New York, N. Y. Valve for internal-combustion engines. No. 957,730; May 10; Sp. p. 2605; Gaz. vol. 154; p. 450.

Brady, Francis W., New York, N. Y. Carbureter. No. 957,731; May 10; Sp. p. 2606; Gaz. vol. 154; p. 451.

Brady, James H., assignor to Colgan Gum Company, Louisville, Ky. Chewing-gum-chip-forming machine. No. 966,160; Aug. 2; Sp. p. 689; Gaz. vol. 157; p. 108.

Brady, James J., Chester, Ga. Seed and fertilizer distributer. No. 960,261; June 7; Sp. p. 36; Gaz. vol. 155; p. 10.

Brady, James R., Parole, Md. Churn. No. 958,585; May 17; Sp. p. 4728; Gaz. vol. 154; p. 776.

Brady, John W., St. Louis, Mo. Moisture-proof wood floor. No. 978,352; Dec. 13; Sp. p. 2023; Gaz. vol. 161; p. 352.

Brady, Thomas H., New Britain, Conn. Pull-socket. No. 973,747; Oct. 25; Sp. p. 4895; Gaz. vol. 159; p. 851.

Brady, Thomas M., Clifton Forge, Va. Trace-tug. No. 973,255; Oct. 18; Sp. p. 3854; Gaz. vol. 159; p. 659.

Brady, Wilfred T. M., Brooklyn, N. Y. Pronged spike. No. 975,322; Nov. 8; Sp. p. 2808; Gaz. vol. 160; p. 454.

Brady, William J., Jackson, Ohio. Dental attachment. No. 957,032; May 3; Sp. p. 1153; Gaz. vol. 154; p. 182.

Braemer, William G. R., Camden, N. J., assignor to Warren Webster & Company. Spraying apparatus. No. 963,354; July 5; Sp. p. 783; Gaz. vol. 156; p. 115.

Braen, Aaron, North Paterson, N. J. Folding crate or case. No. 969,455; Sept. 6; Sp. p. 633; Gaz. vol. 158; p. 101.

Bragg, Arthur, Brooklyn, N. Y. Amusement apparatus. No. 946,200; Jan. 11; Sp. p. 2616; Gaz. vol. 150; p. 434.

Bragg, Arthur, Brooklyn, N. Y. Amusement apparatus. No. 964,383; July 12; Sp. p. 2921; Gaz. vol. 156; p. 482.

Bragstad Bros. Co., The. (See Bragstad, Joseph W., assignor.)

Bragstad, Joseph W., Canton, S. D. Concrete-block-molding machine. No. 951,723; Mar. 8; Sp. p. 2530; Gaz. vol. 152; p. 440.

Bragstad, Joseph W., assignor to The Bragstad Bros. Co., Canton, S. D. Block-molding machine. No. 959,050; May 24; Sp. p. 5714; Gaz. vol. 154; p. 960.

Bragstad, Joseph W., assignor to The Bragstad Bros. Co., Inc., Canton, S. D. Building-block mold. No. 962,303; June 21; Sp. p. 4334; Gaz. vol. 155; p. 748.

Braham, George M., and J. Lill, Hammond, Ind. Car-brake. No. 957,408; May 10; Sp. p. 1967; Gaz. vol. 154; p. 340.

Braid, James W., Nashville, Tenn. Device for temporarily maintaining a fixed point or center on plane surfaces. No. 953,407; Mar. 29; Sp. p. 6094; Gaz. vol. 152; p. 1095.

Brainard, Charles H., Chicago, Ill. Excavator-bucket (toggle mechanism). No. 953,020; Mar. 29; Sp. p. 5237; Gaz. vol. 152; p. 966.

Brainard, Charles H., assignor to Monighan Machine Company, Chicago, Ill. Winch-drum. No. 978,353; Dec. 13; Sp. p. 2025; Gaz. vol. 161; p. 353.

Brainard, Julius D., deceased, (F. G. Bradbury, administrator,) assignor of one-half to F. E. Stivers, St. Paul, Minn. Hame draft-link. No. 973,338; Oct. 18; Sp. p. 4026; Gaz. vol. 159; p. 689.

Braithwaite, George. (See Elder, Oscar B., assignor.)

Brakeman, Rollin R., Palatka, Fla. Mop-head. No. 952,301; Mar. 15; Sp. p. 3716; Gaz. vol. 152; p. 664.

Braley, Fred N., *et al.* (See Hoar, Richard A., assignor.)

Braly, Walter M., Blackwell, Okla. Incubator-alarm. No. 974,638; Nov. 1; Sp. p. 1280; Gaz. vol. 160; p. 197.

Bramham, Wilfred, Beverly, Mass. Spring attachment. No. 972,806; Oct. 18; Sp. p. 2806; Gaz. vol. 159; p. 502.

Alphabetical list of patentees—Continued.

Bramkamp, John H., Estacada, Oreg. Roundabout. No. 953,119; Mar. 29; Sp. p. 5469; Gaz. vol. 152; p. 999.
Bramley, Robinson, Lawrence, Mass. Ferrule or protector for tool-handles. No. 945,689; Jan. 4; Sp. p. 1456; Gaz. vol. 150; p. 227.
Bramley, Sylvanus W., Chicago, Ill. Motor for clock-movements and the like. No. 951,903; Mar. 15; Sp. p. 2945; Gaz. vol. 152; p. 533.
Bramwell-Smith, John, Chapel-en-le-Frith, England. Blasting-fuse. No. 953,588; Mar. 29; Sp. p. 6479; Gaz. vol. 152; p. 1158.
Branch, Henry A. (See Osborne, Eugene F., assignor.)
Branch, Thomas, Otisville, Mich. Fruit-gatherer. No. 948,465; Feb. 8; Sp. p. 1432; Gaz. vol. 151; p. 256.
Brand, Achill W., Boise, Idaho. Water-heater. No. 967,715; Aug. 16; Sp. p. 3990; Gaz. vol. 157; p. 684.
Brand, Charles F., Wheeling, W. Va. Valve. No. 949,056; Feb. 15; Sp. p. 2697; Gaz. vol. 151; p. 480.
Brand, Charles S., Troon, assignor to Brand's Pure Spelter Company, Limited, Glasgow, Scotland. Extraction of zinc. No. 963,416; July 5; Sp. p. 913; Gaz. vol. 156; p. 135.
Brand, George, F. Marcile, and E. P. Sheldon, Brooklyn, N. Y. Labeling-machine. No. 974,856; Nov. 8; Sp. p. 1757; Gaz. vol. 160; p. 293.
Brand, George B., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 953,816; Apr. 5; Sp. p. 271; Gaz. vol. 153; p. 48.
Brand, George B., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 960,804; June 7; Sp. p. 1144; Gaz. vol. 155; p. 191.
Brand, George M., Brighton, assignor of one-fourth to H. T. Bacon, Greeley, Colo. Field-leveler. No. 957,732; May 10; Sp. p. 2609; Gaz. vol. 154; p. 451.
Brand, George P., New York, N. Y. Tracker-bar. No. 958,470; May 17; Sp. p. 4509; Gaz. vol. 154; p. 738.
Brand, George P., New York, N. Y. Accentuating mechanism for pneumatic players. No. 960,262; June 7; Sp. p. 38; Gaz. vol. 155; p. 10.
Brand, George P., New York, N. Y. Tracker-bar. No. 977,700; Dec. 6; Sp. p. 638; Gaz. vol. 161; p. 97.
Brand, George P., New York, N. Y. Pedal mechanism. No. 978,837; Dec. 20; Sp. p. 3040; Gaz. vol. 161; p. 541.
Brand, George P., and F. W. Winter, New York, N. Y. Piano hammer-rail and means for operating the same. No. 946,006; Jan. 11; Sp. p. 2219; Gaz. vol. 150; p. 368.
Brand, William E. (See Morton, Frederic C., assignor.)
Brandenburg, Heinrich, Kempen-on-the-Rhine, Germany. Apparatus for extracting tin from tin-plate waste. No. 948,679; Feb. 8; Sp. p. 1909; Gaz. vol. 151; p. 327.
Brandenburg, Heinrich, Kempen-on-the-Rhine, Germany. Removing tin from tin-plate waste. No. 974,463; Nov. 1; Sp. p. 895; Gaz. vol. 160; p. 132.
Brandes, Henry F., Long Point, Ill. Equalizer. No. 946,422; Jan. 11; Sp. p. 3191; Gaz. vol. 150; p. 513.
Brandfass, Charles E., Wheeling, W. Va. Automatic railway-switch. No. 962,739; June 28; Sp. p. 5287; Gaz. vol. 155; p. 923.
Brandly, Albert R. (See Harris, Gordon D., assignor.)
Brandon, Ellsworth F. (See Kaltenbach, Frank, assignor.)
Brandon, Gustave F., Muskegon, Mich. Car-coupling, uncoupling device. No. 946,592; Jan. 18; Sp. p. 3535; Gaz. vol. 150; p. 595.
Brandon, Henry L., Leavenworth, Kans. Steam-condenser. No. 971,486; Sept. 27; Sp. p. 4929; Gaz. vol. 158; p. 862.
Brandon, James, New York, N. Y. Cotton-gin. No. 971,720; Oct. 4; Sp. p. 437; Gaz. vol. 159; p. 76.
Brands, Constant, Hilversum, Netherlands. Sandal for swimmers. No. 951,936; Mar. 15; Sp. p. 3008; Gaz. vol. 152; p. 545.
Brand's Pure Spelter Company. (See Brand, Charles S., assignor.)
Brandt, Andrew G., Scranton, Pa. Flexible folding cup. No. 977,159; Nov. 29; Sp. p. 6815; Gaz. vol. 160; p. 1158.
Brandt Cashier Company. (See Brandt, Edward J., assignor.)
Brandt, Edward J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Store-service track. No. 954,611; Apr. 12; Sp. p. 1957; Gaz. vol. 153; p. 347.
Brandt, Edward J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Designating, recording, and registering apparatus. No. 967,716; Aug. 16; Sp. p. 3993; Gaz. vol. 157; p. 684.
Brandt, Joseph H., Philadelphia, Pa. Bottle-stoppering mechanism. No. 966,647; Aug. 9; Sp. p. 1733; Gaz. vol. 157; p. 296.
Brandt, Pierre, St. Petersburg, Russia. Hydraulic press. No. 967,166; Aug. 16; Sp. p. 2876; Gaz. vol. 157; p. 498.
Brandt, Pierre, St. Petersburg, Russia. Bellows-like hydraulic and pneumatic machine and apparatus. No. 968,642; Aug. 30; Sp. p. 5978; Gaz. vol. 157; p. 1051.
Brangier, Pierre A., Agnew, Cal., and R. Luckenbach, Philadelphia, Pa. Trap for precious metals. No. 959,300; May 24; Sp. p. 6238; Gaz. vol. 154; p. 1043.
Brangier, Pierre A., Agnew, Cal., and R. Luckenbach, Philadelphia, Pa. Apparatus for quick cyaniding of precious metals. No. 959,301; May 24; Sp. p. 6239; Gaz. vol. 154; p. 1044.
Brangier, Pierre-Armand, Agnew, Cal. Manufacturing purified potable spirits. No. 969,332; Sept. 6; Sp. p. 380; Gaz. vol. 158; p. 62.
Brannen, Charles A., Newton, Kans. Hair-holder. No. 971,519; Oct. 4; Sp. p. 17; Gaz. vol. 159; p. 5.
Branscom, William J. D., Mobile, Ala. Combination blind lock and catch. No. 977,777; Dec. 6; Sp. p. 786; Gaz. vol. 161; p. 122.
Branson, Thomas, assignor to Sibson & Stern, Incorporated, Philadelphia, Pa. Attachment for warp-knitting machines. No. 976,776; Nov. 22; Sp. p. 5929; Gaz. vol. 160; p. 1001.
Branson, Walter J., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, Pittsburg, Pa. Centrifugal switch. No. 977,591; Dec. 6; Sp. p. 405; Gaz. vol. 161; p. 59.
Branstetter, William J. (See Wolfe, Bissell, and Branstetter.)
Brant, James. (See Grabe and Brant.)
Brant, John S., assignor to Cory & Reynolds Company, Providence, R. I. Gem-setting. No. 972,807; Oct. 18; Sp. p. 2807; Gaz. vol. 159; p. 502.
Branth, John H., New York, N. Y. High-speed boat. No. 961,750; June 21; Sp. p. 3115; Gaz. vol. 155; p. 561.
Brantingham, Allen C., Toledo, Ohio. Sifter-control device. No. 946,716; Jan. 18; Sp. p. 3804; Gaz. vol. 150; p. 635.
Brantingham, Allen C., Toledo, Ohio. Self-balancing-sifter control. No. 949,144; Feb. 15; Sp. p. 2876; Gaz. vol. 151; p. 509.
Brantley, John C., Lake Cormorant, Miss. Liquid-dispensing apparatus. No. 953,408; Mar. 29; Sp. p. 6096; Gaz. vol. 152; p. 1095.
Brantley, Thomas, assignor to Southern Machine Works, Albany, Ga. Brush. No. 969,456; Sept. 6; Sp. p. 634; Gaz. vol. 158; p. 101.
Brantz, August, Richmond, Va. Chalk-sharpening device. No. 957,733; May 10; Sp. p. 2611; Gaz. vol. 154; p. 452.
Braquier, Leon, Verdun-sur-Meuse, France. Confection explosive shell. No. 950,591; Mar. 1; Sp. p. 266; Gaz. vol. 152; p. 44.
Brash, Albert W., Newark, S. D. Snap-hook. No. 979,641; Dec. 27; Sp. p. 4806; Gaz. vol. 161; p. 843.
Brashier, Henry J., London, England. Knife cleaning and polishing machine. No. 963,507; July 5; Sp. p. 1087; Gaz. vol. 156; p. 165.
Brasington, John M. (See Pearson, Samuel J., assignor.)
Brasington, Ross M., Marietta, Ohio. Ladder extension. No. 979,821; Dec. 27; Sp. p. 5209; Gaz. vol. 161; p. 903.
Brasket, Thomas C., Anderson, Ind. Meat-slicer. No. 951,050; Mar. 1; Sp. p. 1188; Gaz. vol. 152; p. 195.
Brassert, Herman A., and A. G. Witting, Chicago, Ill. Method and apparatus for cleaning gas. No. 969,769; Sept. 13; Sp. p. 1336; Gaz. vol. 158; p. 236.
Brassert, Hermann A., Chicago, Ill., assignor to J. Gayley, New York, N. Y. Drying air. No. 958,471; May 17; Sp. p. 4511; Gaz. vol. 154; p. 738.
Brasseur, Charles L. A., New York, N. Y. Polychrome screen and making the same. No. 974,464; Nov. 1; Sp. p. 896; Gaz. vol. 160; p. 132.
Brasseur, Charles L. A., New York, N. Y. Polychrome screen and making same. No. 976,118; Nov. 15; Sp. p. 4435; Gaz. vol. 160; p. 751.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Envelop-sealing apparatus. No. 945,743; Jan. 11; Sp. p. 1623; Gaz. vol. 150; p. 275.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Envelop-sealing and stamp-affixing machine. No. 945,744; Jan. 11; Sp. p. 1627; Gaz. vol. 150; p. 275.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Machine for sealing envelops. No. 945,745; Jan. 11; Sp. p. 1638; Gaz. vol. 150; p. 275.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Envelop-sealing and stamp-affixing machine. No. 945,838; Jan. 11; Sp. p. 1858; Gaz. vol. 150; p. 310.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Sheet-feeding apparatus. No. 979,822; Dec. 27; Sp. p. 5210; Gaz. vol. 161; p. 904.
Brasseur, Leon, Brooklyn, N. Y. Egg-nest or filler. No. 979,373; Dec. 20; Sp. p. 4221; Gaz. vol. 161; p. 727.
Brassington, Isaac S., Ashland, Pa. Metallic seal for holding knots. No. 946,486; Jan. 11; Sp. p. 3329; Gaz. vol. 150; p. 535.
Brasson, Adelard D., and A. A. Yankee, San Francisco, Cal. Gas-generating apparatus. No. 969,085; Aug. 30; Sp. p. 6897; Gaz. vol. 157; p. 1201.
Braswell, Richard R., assignor of one-half to J. J. Nelson, Shreveport, La. Dental crown-forming tool. No. 978,430; Dec. 13; Sp. p. 2189; Gaz. vol. 161; p. 379.
Bratkowski, Wladislaus, Berlin, Germany. Process of and apparatus for drying wet material. No. 969,031; Aug. 30; Sp. p. 6787; Gaz. vol. 157; p. 1183.
Bratschie, Amiel, New Castle, Pa. Water-motor. No. 945,746; Jan. 11; Sp. p. 1646; Gaz. vol. 150; p. 276.
Bratton, Robert J., Georgetown, Ill. Cement-block mold. No. 974,350; Nov. 1; Sp. p. 619; Gaz. vol. 160; p. 93.
Bratton, Roscoe, Lebanon, Ind. Hat-rack. No. 951,231; Mar. 8; Sp. p. 1550; Gaz. vol. 152; p. 278.

Alphabetical list of patentees—Continued.

Bratzel, George V., Hebron, N. D. Folding umbrella. No. 957,734; May 10; Sp. p. 2612; Gaz. vol. 154; p. 452.

Brauer, Carl, Hostomitz, near Teplitz, Austria-Hungary. Delivery apparatus for bottle-annealing furnaces. No. 962,811; June 28; Sp. p. 5434; Gaz. vol. 155; p. 949.

Brauer, John, Menasha, Wis. Bailing-horn. No. 974,548; Nov. 1; Sp. p. 1096; Gaz. vol. 160; p. 165.

Brauer, William A., assignor to Niagara Musical Instrument Manufacturing Company, North Tonawanda, N. Y. Suction wind-chest for self-playing organs and other musical instruments. No. 964,607; July 19; Sp. p. 3450; Gaz. vol. 156; p. 590.

Brauer, William A., assignor to Niagara Musical Instrument Manufacturing Company, North Tonawanda, N. Y. Automatic drum-beater for mechanically-operated musical instruments. No. 965,435; July 26; Sp. p. 5263; Gaz. vol. 156; p. 901.

Braun, Ferdinand F. (See Smith and Braun.)

Braun, Henry C. (See Heffernan and Braun.)

Braun, Jacob G., Chicago, Ill. Protector-plate for edges of concrete steps. No. 960,489; June 7; Sp. p. 503; Gaz. vol. 155; p. 84.

Braun & Sons, John. (See Deck, Henry, assignor.)

Braun, William A., assignor of one-half to F. L. Jones, Fort Wayne, Ind. Electrical sad-iron. No. 974,232; Nov. 1; Sp. p. 337; Gaz. vol. 160; p. 48.

Braun, William C., Marysville, Ind. Match-holder attachment for lanterns. No. 949,390; Feb. 15; Sp. p. 3398; Gaz. vol. 151; p. 593.

Braun, William C., Marysville, Ind. Horse-drag. No. 957,185; May 10; Sp. p. 1473; Gaz. vol. 154; p. 263.

Braunstein, Simon, *et al.* (See Schwinger, Abraham I., assignor.)

Brauss, Eduard, Linden, near Hanover, assignor to Gebr. Körting Aktien-Gesellschaft, Körtingsdorf, near Hanover, Germany. Gas-generator. No. 974,639; Nov. 1; Sp. p. 1281; Gaz. vol. 160; p. 197.

Braussau, Joseph H., Pittsburg, Pa. Receptacle for milk-bottles and the like. No. 950,744; Mar. 1; Sp. p. 614; Gaz. vol. 152; p. 97.

Bray, Charles W., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Feeding plates or sheets to cold rolls. No. 947,728; Jan. 25; Sp. p. 6031; Gaz. vol. 150; p. 1005.

Bray, Charles W., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Apparatus for reheating and matching sheets. No. 966,161; Aug. 2; Sp. p. 692; Gaz. vol. 157; p. 108.

Bray, Charles W., assignor to The American Sheet & Tin Plate Company, Pittsburg, Pa. Apparatus for rolling metal sheets. No. 978,551; Dec. 13; Sp. p. 2446; Gaz. vol. 161; p. 421.

Bray, James O., Campbell, Mo. Cream-heater. No. 968,531; Aug. 30; Sp. p. 5738; Gaz. vol. 157; p. 1011.

Bray & Kates. (See Bray, Richard, assignor.)

Bray, Richard, assignor to Bray & Kates, Arlington Heights, Ill. Milk-can and making the same. No. 956,675; May 3; Sp. p. 368; Gaz. vol. 154; p. 60.

Bray, Richard, assignor to Bray & Kates, Arlington Heights, Ill. Milk-can. No. 974,116; Nov. 1; Sp. p. 20; Gaz. vol. 160; p. 6.

Brayshaw, Shipley N., Hulme, Manchester, England, assignor to G. Nash, New York, N. Y. Furnace for heating steel cutters and other tools or articles. No. 977,778; Dec. 6; Sp. p. 788; Gaz. vol. 161; p. 123.

Brayton, George A., Martins Ferry, and Edwin C. Roberts, Bridgeport, Ohio. Reinforcement for concrete structures. No. 971,353; Sept. 27; Sp. p. 4692; Gaz. vol. 158; p. 820.

Brazeal, Joseph E., assignor to The Quick Unloading Car Chute Co., Birmingham, Ala. Chute. No. 974,351; Nov. 1; Sp. p. 620; Gaz. vol. 160; p. 94.

Brazier, Arthur G., and D. E. Shook, Vernon, British Columbia, Canada. Transom-adjuster. No. 965,367; July 26; Sp. p. 5114; Gaz. vol. 156; p. 878.

Brazier, Joseph, and H. Watson, Melbourne, Victoria, assignors of one-third to R. R. Grundy, Brunswick, Australia. Means for lighting and extinguishing a system of gas-lamps at prearranged times from a given station. No. 972,500; Oct. 11; Sp. p. 2130; Gaz. vol. 159; p. 370.

Brazil-Dineen, Thomas, Milson's Point, North Sydney, New South Wales, Australia. Loose-leaf binder. No. 956,278; Apr. 26; Sp. p. 5621; Gaz. vol. 153; p. 981.

Brazil-Dineen, Thomas, North Sydney, New South Wales, Australia. Loose-leaf binder. No. 957,649; May 10; Sp. p. 2441; Gaz. vol. 154; p. 422.

Brazille, Lafayette. (See Blevins and Brazille.)

Braznell, John J., assignor to American Bed Company, St. Louis, Mo. Mattress-spring fabric. No. 947,192; Jan. 18; Sp. p. 4814; Gaz. vol. 150; p. 794.

Bready, Joseph W., Westfield, assignor of one-half to C. W. Jacobus, Springfield, Mass. Connecting-rod coupling. No. 947,567; Jan. 25; Sp. p. 5725; Gaz. vol. 150; p. 951.

Breakey, George B., New York, assignor to Herrmann & Grace Company, Brooklyn, N. Y. Metallic door. No. 977,366; Nov. 29; Sp. p. 7251; Gaz. vol. 160; p. 1230.

Brearley, Harry, and F. C. Moorwood, Sheffield, England. Manufacture of silica bricks, ganister, and other refractory materials. No. 958,084; May 17; Sp. p. 3579; Gaz. vol. 154; p. 603.

Breck, George, San Francisco, Cal. Inverted gas-fixture. No. 958,357; May 17; Sp. p. 4286; Gaz. vol. 154; p. 699.

Breckenkamp, Louis H., assignor of one-half to J. C. Miller, St. Louis, Mo. Sandpapering-machine. No. 971,114; Sept. 27; Sp. p. 4200; Gaz. vol. 158; p. 741.

Bredenberg, Maximilian, Neuwerder, near Radomno, Germany. Device for lacing boots. No. 961,711; June 14; Sp. p. 3029; Gaz. vol. 155; p. 524.

Breder, Frederick W., and J. H. Loyd; said Loyd assignor to M. O. Brixey, Springfield, Mo. Artificial bait. No. 972,748; Oct. 11; Sp. p. 2691; Gaz. vol. 159; p. 457.

Breed, De Witt C. (See Eldridge and Breed.)

Breed, Preston H., assignor to Alden Sampson Manufacturing Company, Pittsfield, Mass. Universal joint. No. 952,413; Mar. 15; Sp. p. 3925; Gaz. vol. 152; p. 702.

Breed, Preston H., assignor to The Alden Sampson Manufacturing Company, Pittsfield, Mass. Automobile driving and supporting wheel. No. 980,055; Dec. 27; Sp. p. 5708; Gaz. vol. 161; p. 982.

Breed, Preston H., assignor to Alden Sampson Manufacturing Company, Pittsfield, Mass. Chain case and gearing. No. 980,141; Dec. 27; Sp. p. 5913; Gaz. vol. 161; p. 1009.

Breen, William H. (See Brown, George W., assignor.)

Breene, Harry A. (See Penovi and Breene.)

Brehio, Charles, Worcester, Mass. Apparatus for operating picker-motion for looms. No. 952,096; Mar. 15; Sp. p. 3303; Gaz. vol. 152; p. 595.

Breihan, Frederick F., Bartlett, Tex. Cotton-press. No. 946,573; Jan. 18; Sp. p. 3500; Gaz. vol. 150; p. 589.

Breihan, Frederick F., Bartlett, Tex. Cotton-press. No. 951,300; Mar. 8; Sp. p. 1697; Gaz. vol. 152; p. 300.

Breihan, Frederick F., Bartlett, Tex. Supplementary vehicle-seat. No. 961,480; June 14; Sp. p. 2555; Gaz. vol. 155; p. 447.

Breitenmoser, Louis, Napoleonville, La. Piano-violin. No. 953,589; Mar. 29; Sp. p. 6480; Gaz. vol. 152; p. 1158.

Breither, Paul R., Chicago, Ill. Window-screen. No. 978,838; Dec. 20; Sp. p. 3043; Gaz. vol. 161; p. 541.

Brekke, Gustave H., Seattle, Wash. Airship. No. 955,049; Apr. 12; Sp. p. 2942; Gaz. vol. 153; p. 498.

Brekke, Lewis O., Seattle, Wash. Stove and furnace grate. No. 970,460; Sept. 20; Sp. p. 2795; Gaz. vol. 158; p. 491.

Bremaker, Charles, and H. D. Eggers, Louisville, Ky.; said Eggers assignor of one-half to said Bremaker. Table-slide. No. 967,603; Aug. 16; Sp. p. 3769; Gaz. vol. 157; p. 647.

Bremer, Russell H., O. F. Thiry, and S. Hollands, Reading, Pa. Printing device. No. 978,839; Dec. 20; Sp. p. 3045; Gaz. vol. 161; p. 542.

Brengel, Andrew A., Jersey City, N. J. Amusement device. No. 973,618; Oct. 25; Sp. p. 4631; Gaz. vol. 159; p. 805.

Brening, Louis F., assignor, by mesne assignments, to The Ridgely Trimmer Company, Springfield, Ohio. Paper-cutter. No. 957,409; May 10; Sp. p. 1968; Gaz. vol. 154; p. 341.

Brenizer, Orson W., Philadelphia, Pa. Turnstile. No. 967,167; Aug. 16; Sp. p. 2879; Gaz. vol. 157; p. 498.

Brennan, Daniel, Jr. (See Williamson and Brennan.)

Brennan, James P., assignor of one-half to H. J. Weidemann, Columbus, Wis. Potato-harvester. No. 973,852; Oct. 25; Sp. p. 5114; Gaz. vol. 159; p. 888.

Brennan, John B., Sherman, Tex. Crude-oil burner. No. 947,293; Jan. 25; Sp. p. 5072; Gaz. vol. 150; p. 857.

Brennan, Marcus F., Carbondale, Pa. Adjuster for locomotive drive-boxes. No. 957,735; May 10; Sp. p. 2614; Gaz. vol. 154; p. 452.

Brennan, Maurice W., Maskell, Nebr. Manure-loader. No. 960,490; June 7; Sp. p. 504; Gaz. vol. 155; p. 84.

Brennan, Thomas, Jr. (See Rieske, Brennan, Phelps, and Beeman.)

Brennan, Thomas, Jr., assignor to Monitor Drill Company, St. Louis Park, Minn. Disk furrow-opener. No. 977,367; Nov. 29; Sp. p. 7253; Gaz. vol. 160; p. 1231.

Brennan, William, Lowell, Mass. Automatic shut-off valve. No. 955,844; Apr. 26; Sp. p. 4659; Gaz. vol. 153; p. 830.

Brennan, William J., Dannemora, N. Y. Lining for freight-cars. No. 945,747; Jan. 11; Sp. p. 1647; Gaz. vol. 150; p. 276.

Brennan, William R., La Salle, Ill. Grinding attachment for sewing-machines. No. 966,305; Aug. 2; Sp. p. 969; Gaz. vol. 157; p. 155.

Brenneisen, George B., Warren, Pa. Centering-machine. No. 970,679; Sept. 20; Sp. p. 3298; Gaz. vol. 158; p. 567.

Brenner, Emma L., Milwaukee, Wis. Sash-fastener. No. 948,918; Feb. 8; Sp. p. 2392; Gaz. vol. 151; p. 407.

Brenner, Frederick A., Milwaukee, Wis. Pneumatic separator. No. 977,160; Nov. 29; Sp. p. 6816; Gaz. vol. 160; p. 1159.

Brenner, William H., New Westminster, British Columbia, Canada. Collapsible fruit-box. No. 952,302; Mar. 15; Sp. p. 3717; Gaz. vol. 152; p. 665.

Brenner, William H., Yokohama, Japan. Starting-gate for sports. No. 952,503; Mar. 22; Sp. p. 4127; Gaz. vol. 152; p. 760.

Brennwald, Gustav, Zurich, Switzerland. Paper-making or like machine. No. 967,604; Aug. 16; Sp. p. 3770; Gaz. vol. 157; p. 648.

Alphabetical list of patentees—Continued.

Brent, Charles, Brandon, Manitoba, Canada. High and low water alarm. No. 978,983; Dec. 20; Sp. p. 3379; Gaz. vol. 161; p. 594.

Brent, Charles, Brandon, Manitoba, Canada, assignor to Ever Ready Fire Extinguisher Co., Jersey City, N. J. Fire-extinguisher. No. 968,736; Aug. 30; Sp. p. 6205; Gaz. vol. 157; p. 1084.

Brent, John F., Marseilles, Ill. Hinge for display-boxes. No. 972,326; Oct. 11; Sp. p. 1760; Gaz. vol. 159; p. 309.

Brenton, William, Mineral Point, Wis. Metal-polishing compound. No. 951,676; Mar. 8; Sp. p. 2463; Gaz. vol. 152; p. 426.

Brents, William R., Sherman, Tex. Stamp-affixing machine. No. 952,067; Mar. 15; Sp. p. 3256; Gaz. vol. 152; p. 586.

Brescia, Domingo, Quito, Ecuador. Charging-capsule for siphons. No. 968,532; Aug. 30; Sp. p. 5739; Gaz. vol. 157; p. 1011.

Bresee, William R., Bellevue, Pa. Quick-acting wrench. No. 957,932; May 17; Sp. p. 3051; Gaz. vol. 154; p. 548.

Breslauer, Max, Charlottenburg, Germany, assignor to Minimax Consolidated Limited, London, England, and Neuruppin, Germany. Extinguishing burning benzin, &c. No. 955,316; Apr. 19; Sp. p. 3494; Gaz. vol. 153; p. 620.

Bresler, Harry W., Charlottenburg, Germany, assignor, by mesne assignments, to General Electric Company. Forming elastic anchors for incandescent-lamp filaments. No. 951,232; Mar. 8; Sp. p. 1552; Gaz. vol. 152; p. 279.

Breslove, Joseph, Pittsburg, Pa., assignor to The Westinghouse Machine Company. Automatic stop-governor. No. 953,590; Mar. 29; Sp. p. 6482; Gaz. vol. 152; p. 1159.

Bresnahan, Maurice V. (See Holbrook, Frank, assignor.) (Reissue.)

Bresnahan, Remembrance F., Marlboro, N. J. Asparagus-knife. No. 955,050; Apr. 12; Sp. p. 2954; Gaz. vol. 153; p. 499.

Bresnahan Shoe Machinery Company. (See Heys, John J., assignor.)

Bresnahan, William D., *et al.* (See Spencer, Oliver H. P. G., assignor.)

Bretaud, Joseph V., Philadelphia, Pa. Ladle. No. 947,729; Jan. 25; Sp. p. 6032; Gaz. vol. 150; p. 1005.

Brethorst, Joergen von, Paxton, Ill. Puzzle. No. 977,265; Nov. 29; Sp. p. 7029; Gaz. vol. 160; p. 1195.

Breting, Ulysses A. (See Coles, William A., assignor.)

Bretonneau, Louis A., Paris, France. Mouthpiece of horns for automobiles and the like. No. 945,371; Jan. 4; Sp. p. 798; Gaz. vol. 150; p. 123.

Brett, Bernard and J., Coventry, England. Drop-hammer. No. 975,206; Nov. 8; Sp. p. 2572; Gaz. vol. 160; p. 414.

Brett, Henry E. (See Talbot and Brett.)

Brett, Henry E., Los Angeles, Cal. Burner for liquid fuel. No. 945,080; Jan. 4; Sp. p. 154; Gaz. vol. 150; p. 26.

Brett, John. (See Brett, Bernard and J.)

Brett, William P., Decatur, Ill. Windmill. No. 980,172; Dec. 27; Sp. p. 5985; Gaz. vol. 161; p. 1020.

Bretz, Allen E., Lancaster, Ohio. Hitching device. No. 968,322; Aug. 23; Sp. p. 5306; Gaz. vol. 157; p. 914.

Bretz, George B., assignor to W. S. Judy, Dayton, Ohio. Noodle-cutter. No. 961,337; June 14; Sp. p. 2268; Gaz. vol. 155; p. 400.

Breuchaud, Jules, Yonkers, N. Y. Constructing foundations of buildings. No. 957,844; May 10; Sp. p. 2835; Gaz. vol. 154; p. 486.

Brewer, Alden R., Plainview, Tex. Current-motor. No. 947,672; Jan. 25; Sp. p. 5935; Gaz. vol. 150; p. 987.

Brewer, Alonzo G., assignor to The Wire Goods Company, Worcester, Mass. Wire coat and hat hook. No. 972,501; Oct. 11; Sp. p. 2133; Gaz. vol. 159; p. 371.

Brewer, Elton G., and C. A. Cheshire, Des Moines, Iowa. Feeder for printing-presses. No. 971,245; Sept. 27; Sp. p. 4492; Gaz. vol. 158; p. 786.

Brewer, George W., Add, Ky. Automatic wagon-brake. No. 972,808; Oct. 18; Sp. p. 2809; Gaz. vol. 159; p. 502.

Brewer, Grace A., Bayonne, assignor to Circum Bearing Company, Trenton, N. J. Roller-bearing. No. 954,922; Apr. 12; Sp. p. 2701; Gaz. vol. 153; p. 456.

Brewer, John A., Jackson, Mich., assignor to The Electric Shoe Polisher Company, Chicago, Ill. Shoe brushing and polishing machine. No. 955,941; Apr. 26; Sp. p. 4874; Gaz. vol. 153; p. 862.

Brewer, Robert R., St. Louis, Mo. Portable house. No. 974,233; Nov. 1; Sp. p. 338; Gaz. vol. 160; p. 48.

Brewer, Walter, Malcolm, Nebr. Animal-poke. No. 956,755; May 3; Sp. p. 549; Gaz. vol. 154; p. 88.

Brewer, William J., Brooklyn, N. Y. Roller-bearing wheel. No. 956,279; Apr. 26; Sp. p. 5622; Gaz. vol. 153; p. 981.

Brewer, William J., Brooklyn, N. Y. Roller-bearing. No. 958,586; May 17; Sp. p. 4729; Gaz. vol. 154; p. 777.

Brewer, William J., Brooklyn, assignor to New York Oilless Bearing Co., New York, N. Y. Roller-bearing. No. 955,128; Apr. 19; Sp. p. 3088; Gaz. vol. 153; p. 555.

Brewington, Henry S., Baltimore, Md. Fountain-penholder. No. 958,472; May 17; Sp. p. 4512; Gaz. vol. 154; p. 739.

Brewington, Henry S., Baltimore, Md. Candy-pulling machine. No. 977,161; Nov. 29; Sp. p. 6825; Gaz. vol. 160; p. 1159.

Brewington, Henry S., Baltimore, Md. Candy-pulling machine. No. 979,125; Dec. 20; Sp. p. 3720; Gaz. vol. 161; p. 645.

Brewington, Henry S., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Garment-fastener. No. 966,406; Aug. 2; Sp. p. 1161; Gaz. vol. 157; p. 188.

Brewster, Bertram F., Burrton, Kans., assignor of two-thirds to W. S. Wilson, Fort Worth, Tex. Separable locking-rack for driving mechanism. No. 974,022; Oct. 25; Sp. p. 5471; Gaz. vol. 159; p. 948.

Brewster Engineering Co. (See Brewster, Percy D., assignor.)

Brewster, George F., Chandler, Okla. Vehicle-top. No. 965,864; Aug. 2; Sp. p. 33; Gaz. vol. 157; p. 8.

Brewster, Percy D., East Orange, assignor to Brewster Engineering Co., Hoboken, N. J. Rotary pressure-blower. No. 971,660; Oct. 4; Sp. p. 311; Gaz. vol. 159; p. 56.

Brewster, William D., Syracuse, assignor to National Brake Company, Buffalo, N. Y. Mechanism for operating car-brakes. No. 955,450; Apr. 19; Sp. p. 3783; Gaz. vol. 153; p. 664.

Breyfogle, John W., *et al.* (See Roberds, Garfield A., assignor.)

Breyfogle, John W., assignor to Gearless Transmission Co., Rochester, N. Y. Transmission mechanism. No. 973,339; Oct. 18; Sp. p. 4028; Gaz. vol. 159; p. 689.

Brian, William S., Memphis, Tenn. Reducing metal to a molten state suitable for casting. No. 964,896; July 19; Sp. p. 4143; Gaz. vol. 156; p. 690.

Briault, Fernand, Villemomble, France. Apparatus for automatically raising vehicles. No. 972,502; Oct. 11; Sp. p. 2134; Gaz. vol. 159; p. 371.

Brice, May C. (See Thompson and Brice.)

Bricker, Edward J., assignor of one-half to L. H. Johnson, Minneapolis, Minn. Railway-tie rod. No. 948,496; Feb. 8; Sp. p. 1513; Gaz. vol. 151; p. 267.

Brictson, Ole A., Brookings, S. D. Protector for pneumatic tires. No. 971,246; Sept. 27; Sp. p. 4494; Gaz. vol. 158; p. 786.

Bridgeford and Company. (See Stuckenburg, Henry C., assignor.)

Bridgeman, Catherine W., Chicago, Ill. Cherry-pitter. No. 959,450; May 31; Sp. p. 6541; Gaz. vol. 154; p. 1118.

Bridgeport Brass Company. (See Stapley, William S., assignor.)

Bridget, Bernard M., *et al.* (See Fisher, John H., assignor.)

Bridgham, Arthur L., Boston, Mass. Smoke-conveyer for locomotives. No. 973,256; Oct. 18; Sp. p. 3855; Gaz. vol. 159; p. 659.

Bridgham, Arthur L., Boston, Mass. Draft-exciter for locomotives. No. 978,552; Dec. 13; Sp. p. 2448; Gaz. vol. 161; p. 421.

Bridgman, Robert W., Dayton, Ohio. Nut-lock. No. 973,853; Oct. 25; Sp. p. 5115; Gaz. vol. 159; p. 888.

Briede, Otto, Benrath, near Dusseldorf, Germany. Rolling out hollow billets to form seamless tubes. No. 969,333; Sept. 6; Sp. p. 381; Gaz. vol. 158; p. 62.

Briede, Otto, Benrath, near Dusseldorf, Germany. Manufacturing seamless tubes. No. 974,744; Nov. 1; Sp. p. 1513; Gaz. vol. 160; p. 232.

Briegel, Theodore. (See Griswold and Briegel.)

Brien, Auguste, Dijon, France. Motor-driven tool-carrier. No. 972,327; Oct. 11; Sp. p. 1762; Gaz. vol. 159; p. 310.

Brien, Charles C., Liverpool, England. Dust-proof drawer. No. 952,699; Mar. 22; Sp. p. 4570; Gaz. vol. 152; p. 829.

Briffod, Alphonse, New Orleans, La. Reinforced-concrete jacket for piling. No. 961,837; June 21; Sp. p. 3312; Gaz. vol. 155; p. 590.

Brigance, Alice O., Navasota, Tex. Box and package elevating apparatus. No. 956,756; May 3; Sp. p. 551; Gaz. vol. 154; p. 88.

Brigden, Arthur, Albertville, Ala. Spring-tooth cultivator. No. 962,001; June 21; Sp. p. 3664; Gaz. vol. 155; p. 644.

Brigden, Arthur, Albertville, Ala. Adjustable harrow-tooth. No. 964,384; July 12; Sp. p. 2923; Gaz. vol. 156; p. 482.

Brigg, Thomas H., Bradford, England. Pole appliance. No. 946,593; Jan. 18; Sp. p. 3536; Gaz. vol. 150; p. 595.

Briggs, Arthur J., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 947,276; Jan. 25; Sp. p. 5040; Gaz. vol. 150; p. 852.

Briggs, Arthur J., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 962,616; June 28; Sp. p. 5030; Gaz. vol. 155; p. 880.

Briggs, Arthur J., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 963,856; July 12; Sp. p. 1857; Gaz. vol. 156; p. 306.

Briggs, Arthur J., and H. C. Ford, assignors to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 955,942; Apr. 26; Sp. p. 4876; Gaz. vol. 153; p. 863.

Briggs, Carl R., Ravenna, Ohio. Lubricator. No. 978,819; Dec. 13; Sp. p. 3001; Gaz. vol. 161; p. 509.

Briggs, Elmer C., Wareham, Mass. Foot-rest for radiators. No. 959,917; May 31; Sp. p. 7554; Gaz. vol. 154; p. 1276.

Briggs, Frank H., Elyria, assignor to The American Dynalite Company, Cleveland, Ohio. Explosive. No. 975,825; Nov. 15; Sp. p. 3855; Gaz. vol. 160; p. 650.
Briggs, Frank J., Glencoe, Okla. Cotton-picker. No. 966,992; Aug. 9; Sp. p. 2501; Gaz. vol. 157; p. 411.
Briggs, George E., *et al.* (See Mayo, William C., assignor.)
Briggs, George H. (See Crossland, George, assignor.)
Briggs, Jesse. (See Ralston and Briggs.)
Briggs, Joseph D., Fresno, Cal. Range. No. 971,520; Oct. 4; Sp. p. 18; Gaz. vol. 159; p. 5.
Briggs, Joseph W., assignor of one-half to F. N. Smith, McKittrick, Cal. Automatic throttle-controlling device for engines. No. 946,493; Jan. 11; Sp. p. 3343; Gaz. vol. 150; p. 537.
Briggs, Julius R., Upland, Cal. Animal-trap. No. 964,488; July 19; Sp. p. 3152; Gaz. vol. 156; p. 548.
Briggs, Lafayette, Dalton, Mass. Flying toy. No. 953,942; Apr. 5; Sp. p. 512; Gaz. vol. 153; p. 93.
Briggs, Stephen F., assignor to Briggs and Stratton, Milwaukee, Wis. Gas-engine igniter. No. 950,126; Feb. 22; Sp. p. 4985; Gaz. vol. 151; p. 876.
Briggs and Stratton. (See Briggs, Stephen F., assignor.)
Briggs, Thomas A., East Greenwich, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Wire-stitcher. No. 970,461; Sept. 20; Sp. p. 2796; Gaz. vol. 158; p. 491.
Briggs, Thomas A., assignor to Boston Wire Stitcher Company, East Greenwich, R. I. Wire-cutter. No. 971,247; Sept. 27; Sp. p. 4495; Gaz. vol. 158; p. 786.
Briggs, William A., and I. Millett, Chicago, Ill. Dust-guard for car-axle boxes. No. 958,953; May 24; Sp. p. 5527; Gaz. vol. 154; p. 927.
Briggs, William C. (See Williams and Briggs.)
Brigham, Edward A., Grafton, assignor to Rotary Ring Spinning Company, Boston, Mass. Spinning-ring. No. 956,930; May 3; Sp. p. 931; Gaz. vol. 154; p. 148.
Brigham, Joseph W., Smiths Ferry, assignor of one-half to W. C. McLeod, Holyoke, Mass. Holder for interchangeable scales. No. 962,399; June 21; Sp. p. 4519; Gaz. vol. 155; p. 780.
Bright, Evan D., Philadelphia, Pa., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Ignition apparatus. No. 945,262; Jan. 4; Sp. p. 533; Gaz. vol. 150; p. 87.
Bright, Fred E., Philadelphia, Pa. Separator for antifriction-bearings. No. 956,676; May 3; Sp. p. 369; Gaz. vol. 154; p. 61.
Bright, Frederick W., Kansas City, Kans. Spreading-section for overhead conveyers. No. 961,338; June 14; Sp. p. 2270; Gaz. vol. 155; p. 400.
Bright, Hoyte V. (See Allison, James E., assignor.)
Bright Manufacturing Company. (See Van Ripen, Lewis C., assignor.)
Bright, Martin C., assignor of one-half to C. W. Meikel, Indianapolis, Ind. Floatless carbureter. No. 956,882; May 3; Sp. p. 837; Gaz. vol. 154; p. 132.
Bright, Robert A., Oklahoma, Okla. Crude-oil burner. No. 946,955; Jan. 18; Sp. p. 4364; Gaz. vol. 150; p. 717.
Bright, Robert A., Jacksonville, Fla. Oil-burner. No. 960,491; June 7; Sp. p. 506; Gaz. vol. 155; p. 84.
Bright, Warren H., Minneapolis, Minn. Hot-water heater. No. 946,836; Jan. 18; Sp. p. 4101; Gaz. vol. 150; p. 678.
Brightman, Fred H., *et al.* (See Pyke, John A., assignor.)
Brightman, Joseph F., *et al.* (See Pyke, John A., assignor.)
Brighton, Levi I., Coffeyville, Kans. Window-screen. No. 948,844; Feb. 8; Sp. p. 2259; Gaz. vol. 151; p. 383.
Brill, Benjamin, Jr., North Bay, Ontario, and A. A. Thompson, Montreal, Quebec, Canada. Rail and joint therefor. No. 962,740; June 28; Sp. p. 5289; Gaz. vol. 155; p. 923.
Brill, John A. (See Henry, Fred H., assignor.)
Brillhart, Michael D., Sterling, Ohio. Horseshoe. No. 962,812; June 28; Sp. p. 5433; Gaz. vol. 155; p. 949.
Brilliant Light Company *et al.* (See Green, James M., assignor.)
Brim, Isaac D., Caps, Tex. Front truck for planters, &c. No. 959,302; May 24; Sp. p. 6241; Gaz. vol. 154; p. 1044.
Brinckerhoff, Francis M., New York, N. Y., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Metallic door. No. 969,518; Sept. 6; Sp. p. 779; Gaz. vol. 158; p. 122.
Brindle, Ira, Waynesboro, Pa. Strainer for hose-pipes. No. 950,715; Mar. 1; Sp. p. 554; Gaz. vol. 152; p. 87.
Brinell, Johan A., Stockholm, Sweden. Treating steel and iron ingots. No. 976,145; Nov. 22; Sp. p. 4516; Gaz. vol. 160; p. 783.
Brinell, Johan A., Stockholm, Sweden. Treating metal ingots. No. 976,146; Nov. 22; Sp. p. 4518; Gaz. vol. 160; p. 783.
Bringham, William A., Chicago, Ill. Adjustable swinging chair. No. 953,591; Mar. 29; Sp. p. 6485; Gaz. vol. 152; p. 1159.
Brinker, Henry C., Indianapolis, Ind. Cabinet. No. 953,457; Mar. 29; Sp. p. 6196; Gaz. vol. 152; p. 1111.
Brinkman, Louis H., assignor to Whitlock Coil Pipe Company, West Hartford, Conn. Hoisting mechanism. No. 953,192; Mar. 29; Sp. p. 5628; Gaz. vol. 152; p. 1022.
Brinkman, Louis H., assignor to Whitlock Coil Pipe Company, West Hartford, Conn. Radiator for motor-vehicles. No. 953,252; Mar. 29; Sp. p. 5758; Gaz. vol. 152; p. 1042.
Brinkman, Louis H., Hartford, assignor to Whitlock Coil Pipe Company, West Hartford, Conn. Making curved wrought-metal pipe-fittings. No. 953,253; Mar. 29; Sp. p. 5759; Gaz. vol. 152; p. 1043.
Brinkman, Louis H., Hartford, assignor to Whitlock Coil Pipe Company, West Hartford, Conn. Refrigerating apparatus. No. 958,852; May 24; Sp. p. 5308; Gaz. vol. 154; p. 894.
Brinkmann, Edward H., and H. O. Wente, Cincinnati, Ohio. Desiccating distillery-slop. No. 958,902; May 24; Sp. p. 5440; Gaz. vol. 154; p. 911.
Brinkmann, Heinrich, Hamburg, Germany. Thrust-bearing with a plurality of cylindrical rollers. No. 947,368; Jan. 25; Sp. p. 5267; Gaz. vol. 150; p. 885.
Brinkmann, Morris W., New York, N. Y. Lens-grinding machine. No. 966,730; Aug. 9; Sp. p. 1918; Gaz. vol. 157; p. 324.
Brinkmann, Morris W., New York, N. Y. Mechanical tool-sharpener. No. 966,731; Aug. 9; Sp. p. 1920; Gaz. vol. 157; p. 325.
Brinkmann, Morris W., New York, N. Y. Tool-sharpener. No. 966,732; Aug. 9; Sp. p. 1921; Gaz. vol. 157; p. 325.
Brinley, Charles A., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 962,548; June 28; Sp. p. 4886; Gaz. vol. 155; p. 857.
Brinley, Charles A., Philadelphia, Pa., and R. H. Bowen, Palmyra, N. J., assignors to The American Pulley Company, Philadelphia, Pa. Pulley and attachment therefor. No. 957,845; May 10; Sp. p. 2839; Gaz. vol. 154; p. 487.
Brinley, Charles E., assignor to The American Pulley Company, Philadelphia, Pa. Reel. No. 978,431; Dec. 13; Sp. p. 2190; Gaz. vol. 161; p. 380.
Brinser, Eli H. G., assignor of one-tenth to C. K. Musser, Elizabethtown, Pa. Milk-dispensing vessel. No. 960,492; June 7; Sp. p. 508; Gaz. vol. 155; p. 85.
Brinton & Co., H. (See Duemler, John C., assignor.)
Brinton, Walter, High Bridge, N. J. Crushing-jaw. No. 945,372; Jan. 4; Sp. p. 799; Gaz. vol. 150; p. 123.
Brion, Adolph E. (See Sanford and Brion.)
Brisbane, Arthur, New York, N. Y. Sleeping-cap. No. 945,839; Jan. 11; Sp. p. 1871; Gaz. vol. 150; p. 310.
Brisbane, Arthur, New York, N. Y. Vehicle-wheel. No. 959,705; May 31; Sp. p. 7082; Gaz. vol. 154; p. 1202.
Brisbane, Arthur, New York, N. Y. Vehicle-wheel. No. 959,706; May 31; Sp. p. 7084; Gaz. vol. 154; p. 1203.
Brisbane, Arthur, New York, N. Y. Vehicle-wheel. No. 959,707; May 31; Sp. p. 7085; Gaz. vol. 154; p. 1203.
Brisben, John P. (See Shank, Joseph E., assignor.)
Brisbois, Odilon, assignor to Automatic Starter Company, Chicago, Ill. Starter for hydrocarbon-engines. No. 959,990; May 31; Sp. p. 7727; Gaz. vol. 154; p. 1302.
Brisbois, Odilon, assignor to Automatic Starter Company, Chicago, Ill. Starter for hydrocarbon-engines. No. 960,493; June 7; Sp. p. 509; Gaz. vol. 155; p. 85.
Briscoe, John W., Chattanooga, Okla. Plant-thinning machine. No. 977,162; Nov. 29; Sp. p. 6830; Gaz. vol. 160; p. 1159.
Briscoe Walter D., *et al.* (See Selden, Fleming J., assignor.)
Brisse, William C., Indianapolis, Ind. Link belt. No. 955,377; Apr. 19; Sp. p. 3631; Gaz. vol. 153; p. 640.
Brissenden, Walter W., assignor to National Steam Specialty Company, Chicago, Ill. Automatic relief-valve for steam-radiators. No. 952,414; Mar. 15; Sp. p. 3926; Gaz. vol. 152; p. 703.
Brister, Edward V., Ruth, Miss. Nut-lock. No. 974,352; Nov. 1; Sp. p. 623; Gaz. vol. 160; p. 94.
Brister, William T., assignor of one-fourth to W. T. Whitis and one-fourth to J. J. Bell, Oakalla, Tex. Railway-tie. No. 945,215; Jan. 4; Sp. p. 430; Gaz. vol. 150; p. 72.
Bristol Brass Company, The. (See Holley, Julian R., assignor.)
Bristol Brass Company, The. (See Wright, Henry C., assignor.)
Bristol, Cyrus J., Des Moines, Iowa. Insulator for battery-plates. No. 959,303; May 24; Sp. p. 6242; Gaz. vol. 154; p. 1044.
Bristol, Edgar H., Naugatuck, assignor to The Industrial Instrument Company, Waterbury, Conn. Recording pressure-gage. No. 966,790; Aug. 9; Sp. p. 2076; Gaz. vol. 157; p. 345.
Bristol, Gaylord I., Cross Fork, Pa. Draft-evener. No. 957,736; May 10; Sp. p. 2614; Gaz. vol. 154; p. 452.
Bristow, Charles. (See Wiggins and Bristow.)
British Steel & Wire Company, The. (See Saville, Harry, assignor.)
Britton, Alfred D. (See Higgins, Emerson C., assignor.)
Britton, Joseph W., Martinsville, Ind. Patch for shoe-soles. No. 959,304; May 24; Sp. p. 6243; Gaz. vol. 154; p. 1045.
Britton, Robb, Clifton, assignor of one-half to M. M. Swaab, Jr., and H. Fleer, Philadelphia, Pa. Wrapping-machine. No. 956,473; Apr. 26; Sp. p. 6040; Gaz. vol. 153; p. 1048.

Alphabetical list of patentees—Continued.

Britton, Van E. (See Schwartz, Sigmund, assignor.)
Britz, Julius A. (See Funk, Charles L., assignor.)
Brixey, Marshall O. (See Breder and Loyd, assignors.)
Broadbent, Thomas, Schenectady, N. Y., assignor to General Electric Company. Turbine-nozzle. No. 973,472; Oct 25; Sp. p. 4317; Gaz. vol. 159; p. 757.
Broadbooks, Peter, Batavia, N. Y. Pliers and wire-cutter. No. 979,925; Dec. 27; Sp. p. 5426; Gaz. vol. 161; p. 938.
Broadwell, William C., assignor to D. P. Wilson, Detroit, Mich. Ice-cream freezer. No. 979,823; Dec. 27; Sp. p. 5214; Gaz. vol. 161; p. 904.
Broadwin, Selig, New York, N. Y. Lubricating attachment for winding-machines. No. 954,374; Apr. 5; Sp. p. 1432; Gaz. vol. 153; p. 239.
Broberg, Ernest J., *et al.* (See Feller, Adolph F., assignor.)
Broberg, Frey L., Brooklyn, N. Y. Hoisting-derrick. No. 978,553; Dec. 13; Sp. p. 2450; Gaz. vol. 161; p. 422.
Broberg, Karl T., Montreal, Quebec, assignor of two-thirds to A. H. Davis, St. John, New Brunswick, Canada. Floor-cleaner. No. 977,701; Dec. 6; Sp. p. 640; Gaz. vol. 161; p. 97.
Brochu, John B., Bridgewater, Mass. Garment-hanger. No. 952,599; Mar. 22; Sp. p. 4355; Gaz. vol. 152; p. 795.
Brochu, Michael, assignor to Valley City Machine Works, Grand Rapids, Mich. Dowel-machine. No. 961,930; June 21; Sp. p. 3512; Gaz. vol. 155; p. 620.
Brock, Benjamin F., Quay, N. Mex. Hasp. No. 949,880; Feb. 22; Sp. p. 4425; Gaz. vol. 151; p. 792.
Brock, Benjamin F., Tucumcari, N. Mex. Trace-chain. No. 974,857; Nov. 8; Sp. p. 1762; Gaz. vol. 160; p. 293.
Brock, Denis T., London, and E. Reeve, Bedford, England. Hood for use on road-vehicles. No. 952,183; Mar. 15; Sp. p. 3467; Gaz. vol. 152; p. 624.
Brock, Edward E., Bartlesville, assignor of one-half to J. P. Woolsey, Oklahoma, Okla. Shade-holder. No. 948,473; Feb. 8; Sp. p. 1459; Gaz. vol. 151; p. 259.
Brock, Evan C. (See Wilson and Brock.)
Brock, John E., Mayoworth, Wyo. Jaw-trap. No. 956,624; May 3; Sp. p. 254; Gaz. vol. 154; p. 43.
Brock, John M., New York, N. Y., assignor to William M. Crane Company. Gas-stove. No. 978,127; Dec. 6; Sp. p. 1518; Gaz. vol. 161; p. 245.
Brock, Matthias, Boston, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Form for boots and shoes. No. 965,865; Aug. 2; Sp. p. 34; Gaz. vol. 157; p. 8.
Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for heading nails or tacks. No. 977,506; Dec. 6; Sp. p. 181; Gaz. vol. 161; p. 30.
Brock, Walter I., Erie, Pa. Making crank-shafts. No. 954,923; Apr. 12; Sp. p. 2702; Gaz. vol. 153; p. 457.
Brock, William E., North Plainfield, N. J. Woodworking machinery. No. 945,373; Jan. 4; Sp. p. 801; Gaz. vol. 150; p. 123.
Brock, William E., North Plainfield, N. J. Turnbuckle or coupling. No. 946,594; Jan. 18; Sp. p. 3538; Gaz. vol. 150; p. 596.
Brock, William E., North Plainfield, N. J. Building material. No. 971,967; Oct. 4; Sp. p. 1023; Gaz. vol. 159; p. 170.
Brockardt, Paul L. (See Schauer and Brockardt.)
Brockardt, Paul L., Hamilton, Ohio. Automatic centering device for endless aprons. No. 977,702; Dec. 6; Sp. p. 643; Gaz. vol. 161; p. 98.
Brockardt, Paul L., assignor to The Empire Machine Company, Hamilton, Ohio. Mangle. No. 948,587; Feb. 8; Sp. p. 1714; Gaz. vol. 151; p. 297.
Brockenbrough, William M. (See Morgan and Brockenbrough.)
Brockett, Don E. J., Cleveland, Ohio. Adjustable antiskid device. No. 953,658; Mar. 29; Sp. p. 6622; Gaz. vol. 152; p. 1182.
Brockhage, Henry. (See Davis, Thomas J., assignor.)
Brockhausen, Carl E., Chicago, Ill. Combined liquid and gas turbine. No. 965,985; Aug. 2; Sp. p. 300; Gaz. vol. 157; p. 50.
Brockman, Frederick D., St. Louis, and E. D. Hoffman, Cape Girardeau, Mo. Folding crate. No. 971,354; Sept. 27; Sp. p. 4693; Gaz. vol. 158; p. 820.
Brockman, J. B. (See Harmon, William E., assignor.)
Brockman, Oscar, Louisville, Ky. Stuffing-rod. No. 957,737; May 10; Sp. p. 2615; Gaz. vol. 154; p. 453.
Brockmann, Louis E., *et al.* (See Thorne, Walter L., assignor.)
Brockton Mowing Machine Cutter Bar Company. (See Poole and Abbenzeller, assignors.)
Brockway, Byron B. (See Anderson and Brockway.)
Brod, Henry, St. Charles, Mo. Trolley-pole. No. 950,630; Mar. 1; Sp. p. 356; Gaz. vol. 152; p. 58.
Brodegaard, Frederik W. (See Neve, William, assignor.)
Brodek, Isidore D. (See Matheson and Brodek.)
Broden, Edwin H., Pittsburg, Pa., assignor to American Steel & Wire Company, Chicago, Ill. Staple-driving mechanism. No. 963,988; July 12; Sp. p. 2139; Gaz. vol. 156; p. 349.
Broderick, Ernest N., Detroit, Mich. Carbureter. No. 961,284; June 14; Sp. p. 2130; Gaz. vol. 155; p. 382.
Brodeur, Alcibiade A., Worcester, Mass. Fan attachment for rocking-chairs. No. 952,068; Mar. 15; Sp. p. 3258; Gaz. vol. 152; p. 587.
Brodeur, Magloire, Lynn, Mass. Brush-holder. No. 963,508; July 5; Sp. p. 1090; Gaz. vol. 156; p. 166.
Brodhead, Andrew J., Greenville, Pa. Locomotive ash-pan. No. 957,142; May 3; Sp. p. 1363; Gaz. vol. 154; p. 218.
Brodin, John A., assignor to Brodin Manufacturing Company, Chicago, Ill. Stovepipe-thimble. No. 975,746; Nov. 15; Sp. p. 3702; Gaz. vol. 160; p. 624.
Brodin Manufacturing Company. (See Brodin, John A., assignor.)
Brodowski, Boleslow, Philadelphia, Pa. Attachment for elevators to indicate alinement of floors. No. 954,018; Apr. 5; Sp. p. 663; Gaz. vol. 153; p. 118.
Brody, Leon, New York, N. Y. Hat-fastener. No. 959,991; May 31; Sp. p. 7728; Gaz. vol. 154; p. 1302.
Broedling, Herman I., Dayton, Ohio. Ignition-timer. No. 955,845; Apr. 26; Sp. p. 4661; Gaz. vol. 153; p. 830.
Broekema, John, Rogers Park, Ill., assignor to Marshall Field & Company. Attachment for vacuum-sweepers. No. 954,164; Apr. 5; Sp. p. 993; Gaz. vol. 153; p. 168.
Brogden, Joah, assignor to David Lupton's Sons Company, Philadelphia, Pa. Skylight-bar. No. 968,737; Aug. 30; Sp. p. 6207; Gaz. vol. 157; p. 1084.
Brohmann, Rudolf, Hanover, Germany. Lock. No. 978,554; Dec. 13; Sp. p. 2452; Gaz. vol. 161; p. 422.
Bröker, Hermann A. R., Hamburg, assignor to Ofenbau-Gesellschaft m. b. H., Munich, Germany. Gas-producing oven. No. 978,354; Dec. 13; Sp. p. 2026; Gaz. vol. 161; p. 353.
Bröking, Ewald, Gevelsberg, Germany. Apparatus for hardening knife-blades. No. 974,465; Nov. 1; Sp. p. 900; Gaz. vol. 160; p. 132.
Brombacher, Emil, Buffalo, N. Y. Spark-arrester. No. 978,132; Dec. 13; Sp. p. 1557; Gaz. vol. 161; p. 277.
Bromwell Brush & Wire Goods Company, The. (See Melish, Thomas G., assignor.)
Bromwell Brush & Wire Goods Company, The. (See Melish and Gatch, assignors.)
Bromwell, Jacob H., *et al.* (See Auble, James H., assignor.)
Bronder, Gaston A., Brooklyn, N. Y. Turn-table. No. 971,115; Sept. 27; Sp. p. 4202; Gaz. vol. 158; p. 742.
Broniatowski, Heinrich, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Gray vat dyes and making. No. 968,533; Aug. 30; Sp. p. 5741; Gaz. vol. 157; p. 1012.
Bronk, William, *et al.* (See Strait, Andrew V., assignor.)
Bronson, Adelbert E., Sr., Cleveland, Ohio. Steel stove. No. 977,592; Dec. 6; Sp. p. 406; Gaz. vol. 161; p. 59.
Bronson, Clarence P., Corning, N. Y. Car-fender. No. 958,473; May 17; Sp. p. 4513; Gaz. vol. 154; p. 739.
Bronson, Frederick S., assignor to Denio General Electric Company, Rochester, N. Y. Signal-box for fire-alarm systems. No. 958,719; May 24; Sp. p. 4988; Gaz. vol. 154; p. 844.
Brook, Arthur S., Rutherford, N. J. Organ-pipe. No. 960,263; June 7; Sp. p. 46; Gaz. vol. 155; p. 11.
Brook, Charles E., Miles City, Mont. Spark-arrester. No. 978,555; Dec. 13; Sp. p. 2453; Gaz. vol. 161; p. 422.
Brooke, John A., Wilkes-Barre, Pa. Pocket sputum-cup. No. 965,276; July 26; Sp. p. 4907; Gaz. vol. 156; p. 846.
Brooke, John T., Seattle, Wash. Credit-account apparatus. No. 792,154; Oct. 11; Sp. p. 1405; Gaz. vol. 159; p. 252.
Brooke, Reuben M., West Vale, near Halifax, assignor to R. Dempster & Sons, Limited, Elland, England. Gas-retort furnace. No. 949,674; Feb. 15; Sp. p. 3929; Gaz. vol. 151; p. 685.
Brooke, Robert G., Macclesfield, England. Injector. No. 967,717; Aug. 16; Sp. p. 3997; Gaz. vol. 157; p. 685.
Brooke, Robert G., Macclesfield, England. Steam-injector. No. 978,000; Dec. 6; Sp. p. 1248; Gaz. vol. 161; p. 200.
Brooke, Robert G., Macclesfield, England. Steam-injector. No. 978,001; Dec. 6; Sp. p. 1250; Gaz. vol. 161; p. 200.
Brooker, Frank N., and B. H. Davidson, Columbus, Ohio. Metal railway-tie. No. 952,976; Mar. 22; Sp. p. 5136; Gaz. vol. 152; p. 922.
Brookins, Carlos J., Ransomville, N. Y. Elevator safety device. No. 955,451; Apr. 19; Sp. p. 3787; Gaz. vol. 153; p. 665.
Brooks, Alfred J., assignor of one-fifth to W. H. Brooks, Quincy, Mass. Attachment for stoves. No. 979,374; Dec. 20; Sp. p. 4222; Gaz. vol. 161; p. 727.
Brooks, Andrew M., Cherry Valley, N. Y. Milk-can. No. 964,385; July 12; Sp. p. 2924; Gaz. vol. 156; p. 482.
Brooks, Arthur A., Ashton-on-Mersey, England. Apparatus for developing and fixing sensitized plates. No. 967,491; Aug. 16; Sp. p. 3547; Gaz. vol. 157; p. 609.
Brooks, Arthur A., Ashton-on-Mersey, England. Photographic apparatus. No. 967,492; Aug. 16; Sp. p. 3548; Gaz. vol. 157; p. 610.
Brooks, Boultbee. (See Alston, Frank H., assignor.)
Brooks, Byron A., New York, N. Y., assignor to Bandotype Company. Preparation of printing-surfaces. No. 964,205; July 12; Sp. p. 2562; Gaz. vol. 156; p. 422.
Brooks, Edward J., East Orange, N. J. Box-seal. No. 954,250; Apr. 5; Sp. p. 1178; Gaz. vol. 153; p. 197.

Alphabetical list of patentees—Continued.

Brooks, Edward J., East Orange, N. J. Dating nail-seal. No. 954,924; Apr. 12; Sp. p. 2703; Gaz. vol. 153; p. 457.

Brooks, Edward J., East Orange, N. J. Snap-seal. No. 956,931; May 3; Sp. p. 932; Gaz. vol. 154; p. 148.

Brooks, Edward J., East Orange, N. J. Snap-seal. No. 960,805; June 7; Sp. p. 1150; Gaz. vol. 155; p. 191.

Brooks, Edward J., East Orange, N. J. Cording-seal. No. 961,931; June 21; Sp. p. 3513; Gaz. vol. 155; p. 621.

Brooks, Edward J., East Orange, N. J. Dress-weight. No. 970,175; Sept. 13; Sp. p. 2002; Gaz. vol. 158; p. 375.

Brooks, Everett W., *et al.* (See Nistle, George W., assignor.)

Brooks, Evert P., assignor of one-third to C. A. Gibson and one-third to J. Remmers, Jr., Cincinnati, Ohio. Carbureter. No. 966,381; Aug. 2; Sp. p. 1107; Gaz. vol. 157; p. 179.

Brooks, Frank M., New York, N. Y. Inverted-mantle lamp. No. 978,133; Dec. 13; Sp. p. 1560; Gaz. vol. 161; p. 277.

Brooks, George H., Louisville, Ky. Book-mark. No. 955,114; Apr. 12; Sp. p. 3048; Gaz. vol. 153; p. 517.

Brooks, Harry A. (See Newcomb and Brooks.)

Brooks, Hiram H., Nashville, Tenn. Street-sweeper. No. 971,661; Oct. 4; Sp. p. 314; Gaz. vol. 159; p. 56.

Brooks, John C., Paterson, N. J. Weaving fabrics. No. 951,359; Mar. 8; Sp. p. 1827; Gaz. vol. 152; p. 320.

Brooks, John C., Paterson, N. J. Needle-loom for weaving pile fabrics. No. 971,355; Sept. 27; Sp. p. 4694; Gaz. vol. 158; p. 821.

Brooks, John C., Paterson, N. J. Needle-loom. No. 971,487; Sept. 27; Sp. p. 4931; Gaz. vol. 158; p. 863.

Brooks, John M., assignor of one-half to E. W. Adams, Baltimore, Md. Furnace. No. 958,903; May 24; Sp. p. 5441; Gaz. vol. 154; p. 911.

Brooks, John P., Castleton, N. Y. Lacing-eyelet for shoes. No. 946,595; Jan. 18; Sp. p. 3539; Gaz. vol. 150; p. 596.

Brooks, Leslie E., *et al.* (See McLeroy, Joseph S., assignor.)

Brooks, Mott B., Rochester, assignor to Field Force Pump Company, Elmira, N. Y. Spraying apparatus. No. 974,640; Nov. 1; Sp. p. 1282; Gaz. vol. 160; p. 197.

Brooks, Paul P. B., Kent township, Warren county, Ind. Cutting and pruning tool. No. 958,587; May 17; Sp. p. 4731; Gaz. vol. 154; p. 777.

Brooks, Reginald W., Denver, Colo. Adjustable trace-support and pad-loop. No. 971,521; Oct. 4; Sp. p. 20; Gaz. vol. 159; p. 6.

Brooks, Robert H., Ruston, La. Crude-oil burner. No. 953,511; Mar. 29; Sp. p. 6316; Gaz. vol. 152; p. 1132.

Brooks, Robert L. (See Woolley, Claude L., assignor.)

Brooks, Thomas R., Miltonvale, Kans. Device for holding tools. No. 967,320; Aug. 16; Sp. p. 3182; Gaz. vol. 157; p. 550.

Brooks, William H. (See Brooks, Alfred J., assignor.)

Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Box-strap puller, cutter, and nail-guide. No. 960,494; June 7; Sp. p. 512; Gaz. vol. 155; p. 85.

Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Box-catch. No. 967,605; Aug. 16; Sp. p. 3771; Gaz. vol. 157; p. 648.

Broome, Henry, Springfield, Ohio. Cherry-seeder. No. 961,838; June 21; Sp. p. 3312; Gaz. vol. 155; p. 590.

Broome, Isaac, Trenton, N. J. Vehicle-rim. No. 950,127; Feb. 22; Sp. p. 4989; Gaz. vol. 151; p. 877.

Broome, Lewis H., Jersey City, N. J. Temple for eyeglasses. No. 962,549; June 28; Sp. p. 4887; Gaz. vol. 155; p. 858.

Broomell, Thomas W., assignor of one-third to G. A. Lichtenberger and one-third to C. H. Bear, York, Pa. Detachable wheel-rim. No. 966,993; Aug. 9; Sp. p. 2503; Gaz. vol. 157; p. 412.

Broomell, Thomas W., assignor of one-third to G. A. Lichtenberger and one-third to C. H. Bear, York, Pa. Detachable wheel-rim. No. 966,994; Aug. 9; Sp. p. 2505; Gaz. vol. 157; p. 412.

Broomhall, John W., Pickens, Miss. Horse-power. No. 963,857; July 12; Sp. p. 1870; Gaz. vol. 156; p. 306.

Brophy, Edward J., Brooklyn, N. Y. Drip-alarm device for refrigerators. No. 969,153; Sept. 6; Sp. p. 5; Gaz. vol. 158; p. 3.

Brophy, John P., assignor to Cleveland Automatic Machine Company, Cleveland, Ohio. Automatic lathe. No. 948,680; Feb. 8; Sp. p. 1910; Gaz. vol. 151; p. 328.

Brophy, Thomas J., New Galilee, Pa. Nut-lock. No. 963,683; July 5; Sp. p. 1434; Gaz. vol. 156; p. 225.

Bropson, James, Cleveland, Ohio. Sink-strainer. No. 972,676; Oct. 11; Sp. p. 2535; Gaz. vol. 159; p. 432.

Brosnan, Cornelius J., assignor of one-half to A. Webster, Springfield, Mass. Pressure-regulating device for pneumatic tires. No. 961,427; June 14; Sp. p. 2433; Gaz. vol. 155; p. 429.

Brossmann, Charles, Indianapolis, assignor to I. E. Smith, Richmond, Ind. Reinforcement for concrete structures. No. 954,925; Apr. 12; Sp. p. 2704; Gaz. vol. 153; p. 457.

Brostrom, Carl F., and F. Lang, Eagle Bend, Minn. Litter-carrier. No. 961,712; June 14; Sp. p. 3030; Gaz. vol. 155; p. 524.

Brostrom, Frederick, Chico, Cal. Pencil-sharpener. No. 958,904; May 24; Sp. p. 5442; Gaz. vol. 154; p. 911.

Brothers, Ralph N., Oklahoma, Okla. Cuff-button. No. 957,864; May 17; Sp. p. 2892; Gaz. vol. 154; p. 524.

Brothers, Sanford W., Denver, Colo. Rock-drill. No. 976,981; Nov. 29; Sp. p. 6425; Gaz. vol. 160; p. 1097.

Brothers, Thomas. (See Merryweather, James, assignor.)

Brotherston, John D. (See Kinsey, Frederick L., assignor.)

Brotherton, Delevan A. (See Cates, Harry S., assignor.)

Brott, Howard G., assignor to The L-B Manufacturing Co., San Jose, Cal. Package-carrier for bicycles and the like. No. 965,436; July 26; Sp. p. 5264; Gaz. vol. 156; p. 901.

Brotz, Frank W., Silver Creek, N. Y. Line-chalking device. No. 952,303; Mar. 15; Sp. p. 3718; Gaz. vol. 152; p. 665.

Brough, John S., Reeds, Mo. Rein-holder. No. 957,738; May 10; Sp. p. 2616; Gaz. vol. 154; p. 453.

Broughton, John S., Lakewood, Ohio. Screw-machine. No. 945,486; Jan. 4; Sp. p. 1023; Gaz. vol. 150; p. 160.

Broughton, Lyman D. (See Rice and Broughton.)

Broughton, Lyman D., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 962,121; June 21; Sp. p. 3950; Gaz. vol. 155; p. 687.

Broughton, Lyman D., and A. N. Lattin, Hartford, Conn., assignors to Underwood Automatic Typewriter Pay Station Company, New York, N. Y. Coin-controlled machine. No. 949,751; Feb. 22; Sp. p. 4119; Gaz. vol. 151; p. 746.

Brouillard, Louis N., Niagara, Wis. Shaft-liner. No. 947,072; Jan. 18; Sp. p. 4585; Gaz. vol. 150; p. 756.

Brouquière, Eugène, Saléchan, France. Method of and means for removing ashes on board ship. No. 972,991; Oct. 18; Sp. p. 3271; Gaz. vol. 159; p. 569.

Broussard, Alexis G., La Fayette, La. Rail-joint. No. 954,251; Apr. 5; Sp. p. 1180; Gaz. vol. 153; p. 197.

Broussard, James, Loreauville, La. Cotton-seed packer. No. 951,051; Mar. 1; Sp. p. 191; Gaz. vol. 152; p. 195.

Brousseau, Harry, assignor of one-half to M. Stern, New York, N. Y. Packing. No. 951,175; Mar. 8; Sp. p. 1438; Gaz. vol. 152; p. 261.

Brousseau, Harry, assignor of one-half to M. Stern, New York, N. Y. Packing. No. 974,949; Nov. 8; Sp. p. 1982; Gaz. vol. 160; p. 326.

Brovald, Andrew C., Finley, Wis. Coat-holder. No. 953,254; Mar. 29; Sp. p. 5762; Gaz. vol. 152; p. 1043.

Broward, Napolean B., Jacksonville, Fla. Dredging-machine. No. 951,360; Mar. 8; Sp. p. 1828; Gaz. vol. 152; p. 320.

Browder, Thomas F., Greenfield, Ohio. Life-saving machine. No. 952,871; Mar. 22; Sp. p. 4933; Gaz. vol. 152; p. 888.

Brower, Abraham T. H., Chicago, Ill. Bed-and-cylinder printing-press. No. 961,206; June 14; Sp. p. 1955; Gaz. vol. 155; p. 354.

Brower, Bloomfield, New York, N. Y. Form for paper currency. No. 973,619; Oct. 25; Sp. p. 4634; Gaz. vol. 159; p. 806.

Brower, Douglass J., Duluth, Minn. Harvesting-machine. No. 977,266; Nov. 29; Sp. p. 7030; Gaz. vol. 160; p. 1196.

Brower, James, Webster City, Iowa. Flexible harrow. No. 965,796; July 26; Sp. p. 6055; Gaz. vol. 156; p. 1026.

Brower, William W., Meservey, Iowa, assignor, by mesne assignments, to The Sattley Stacker Company, Indianapolis, Ind. Lubricator for separating devices. No. 950,201; Feb. 22; Sp. p. 5147; Gaz. vol. 151; p. 903.

Brower, William W., Harmattan, Alberta, Canada, assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 973,748; Oct. 25; Sp. p. 4897; Gaz. vol. 159; p. 852.

Brown, A. Freeborn, Jr., *et al.* (See Gorrell, William R., assignor.)

Brown, Aaron A., Roland Park, Md. Nut-lock. No. 948,039; Feb. 1; Sp. p. 543; Gaz. vol. 151; p. 87.

Brown, Alden V., Troy, N. Y. Globe-protector. No. 966,162; Aug. 2; Sp. p. 693; Gaz. vol. 157; p. 109.

Brown, Alexander E., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Grab-bucket. No. 947,540; Jan. 25; Sp. p. 5670; Gaz. vol. 150; p. 942.

Brown, Alexander E., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Leveler for coke-ovens. No. 952,558; Mar. 22; Sp. p. 4254; Gaz. vol. 152; p. 780.

Brown, Alexander T. (See Tomlinson, Charles E., assignor.)

Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 946,912; Jan. 18; Sp. p. 4284; Gaz. vol. 150; p. 704.

Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 962,418; June 28; Sp. p. 4593; Gaz. vol. 155; p. 812.

Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 965,501; July 26; Sp. p. 5396; Gaz. vol. 156; p. 923.

Brown, Alexander T., Syracuse, N. Y. Mechanical movement. No. 968,445; Aug. 23; Sp. p. 5541; Gaz. vol. 157; p. 956.

Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 969,836; Sept. 13; Sp. p. 1504; Gaz. vol. 158; p. 259.

Alphabetical list of patentees—Continued.

Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 971,721; Oct. 4; Sp. p. 440; Gaz. vol. 159; p. 77.
Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 974,353; Nov. 1; Sp. p. 624; Gaz. vol. 160; p. 94.
Brown, Alfred, Ottawa, Ontario, Canada. Fire-escape. No. 960,068; May 31; Sp. p. 7919; Gaz. vol. 154; p. 1329.
Brown, Alfred G., assignor to Union Fibre Company, Winona, Minn. Apparatus for manufacturing heat-insulating linings or coverings. No. 974,858; Nov. 8; Sp. p. 1763; Gaz. vol. 160; p. 294.
Brown, Almon W., Muskogee, Okla. Dinner-pail. No. 945,302; Jan. 4; Sp. p. 644; Gaz. vol. 150; p. 100.
Brown, Alvah W., Grand Rapids, Mich. Paper-clip. No. 951,052; Mar. 1; Sp. p. 1194; Gaz. vol. 152; p. 195.
Brown, Andrew A. (See Schneider, Joseph A., assignor.)
Brown, Arnold V., assignor to Kabo Corset Company, Chicago, Ill. Adjustable supporting device. No. 971,878; Oct. 4; Sp. p. 779; Gaz. vol. 159; p. 136.
Brown, Arthur J., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 970,786; Sept. 20; Sp. p. 3539; Gaz. vol. 158; p. 605.
Brown, Arthur L., Muskegon, Mich. Combined soap stick and brush. No. 968,027; Aug. 23; Sp. p. 4652; Gaz. vol. 157; p. 812.
Brown, Arthur T., San Francisco, Cal. Oil-heated melting-furnace. No. 975,826; Nov. 15; Sp. p. 3856; Gaz. vol. 160; p. 651.
Brown, Barney, *et al.* (See Opitz, Frank E., assignor.)
Brown, Bertram D., Hudson, Mass. Ink-well holder. No. 980,056; Dec. 27; Sp. p. 5710; Gaz. vol. 161; p. 982.
Brown & Bigelow. (See Napier, Archibald S., assignor.)
Brown-Binnian Company. (See Spiller, Harry A., assignor.)
Brown, Chalmers S., Findlay, Ohio. Excavating-machine. No. 948,871; Feb. 8; Sp. p. 2301; Gaz. vol. 151; p. 391.
Brown, Chalmers S., Findlay, Ohio. Traction-apron for ditching-machines. No. 954,252; Apr. 5; Sp. p. 1182; Gaz. vol. 153; p. 197.
Brown, Charles, assignor of forty-nine one-hundredths to J. M. Smith, Chicago, Ill. Fountain-squeegee. No. 956,566; May 3; Sp. p. 122; Gaz. vol. 154; p. 23.
Brown, Charles A., *et al.* (See Birsfield, Jules A., assignor.)
Brown, Charles A. (See Boothby and Brown.)
Brown, Charles A., Conway, Mo. Device for forming square holes. No. 956,474; Apr. 26; Sp. p. 6046; Gaz. vol. 153; p. 1048.
Brown, Charles A., Lorain, Ohio. Level-controlling device. No. 976,432; Nov. 22; Sp. p. 5207; Gaz. vol. 160; p. 884.
Brown, Charles E., New Kensington, Pa. Door-arch for furnace-doors. No. 947,033; Jan. 18; Sp. p. 4520; Gaz. vol. 150; p. 744.
Brown, Charles E., Danville, Ill. Spoke-socket. No. 956,035; Apr. 26; Sp. p. 5072; Gaz. vol. 153; p. 897.
Brown, Charles F., trustee. (See Pierson, Robert M., assignor.)
Brown, Charles F., trustee. (See Reeve, Sidney A., assignor.)
Brown, Charles F., St. Louis, Mo. Pin-tray. No. 960,622; June 7; Sp. p. 790; Gaz. vol. 155; p. 129.
Brown, Charles G., Athens, Pa. Socket for twist-drills. No. 972,155; Oct. 11; Sp. p. 1406; Gaz. vol. 159; p. 252.
Brown, Charles J., Newton, Mass. Pedestal extension-table. No. 975,604; Nov. 15; Sp. p. 3392; Gaz. vol. 160; p. 577.
Brown, Charles L., *et al.* (See Gedeon, James, assignor.)
Brown, Charles R., assignor of one-half to J. D. Ammerman, Kansas City, Mo. Collapsible crate. No. 968,028; Aug. 23; Sp. p. 4653; Gaz. vol. 157; p. 812.
Brown, Charles W., Marietta, Ohio. Metallic receptacle. No. 946,329; Jan. 11; Sp. p. 2903; Gaz. vol. 150; p. 481.
Brown, Cheney C. (See Milliken, Frank W., assignor.)
Brown, Clarence H., Pittsburg, Pa. Feed-roller attachment for type-writers. No. 978,820; Dec. 13; Sp. p. 3005; Gaz. vol. 161; p. 510.
Brown, Clarence R., assignor to E. E. Brown, Philadelphia, Pa. Sectional sash-weight. No. 970,176; Sept. 13; Sp. p. 2203; Gaz. vol. 158; p. 375.
Brown, Cornelia J., Los Gatos, assignor to The Hardinge Company, San Jose, Cal. Composition of matter to be used for the removal of superfluous hair. No. 949,925; Feb. 22; Sp. p. 4523; Gaz. vol. 151; p. 807.
Brown, Curtis. (See Kramer and Brown.)
Brown, Daniel F., South Framingham, and W. E. Chenery, Framingham, Mass. Shoulder resistance-pad. No. 978,821; Dec. 13; Sp. p. 3007; Gaz. vol. 161; p. 510.
Brown, Daniel H., and J. B. Bennett, Lancaster, Pa., assignors to Bennett Brown and Bennett, Inc. Burial-vault. No. 963,115; July 5; Sp. p. 237; Gaz. vol. 156; p. 31.
Brown, David. (See Klein and Brown.)
Brown, David, Spokane, Wash. Pulsator for milking-machines. No. 961,932; June 21; Sp. p. 3515; Gaz. vol. 155; p. 621.
Brown, David E., and L. L. Kast, Cresson, Pa. Knock-down barrel. No. 962,938; June 28; Sp. p. 5664; Gaz. vol. 155; p. 992.
Brown, David I. (See Peters and Brown.)
Brown, David L., St. Joseph, Mo. Tire-heater. No. 954,612; Apr. 12; Sp. p. 1958; Gaz. vol. 153; p. 347.
Brown, Delmont S., Watertown, N. Y. Needling-machine. No. 976,033; Nov. 15; Sp. p. 4253; Gaz. vol. 160; p. 722.
Brown, Dennis, *et al.* (See Elliott, William R., assignor.)
Brown, Edmund C., Ellsworth, Kans. Washing-machine. No. 963,116; July 5; Sp. p. 238; Gaz. vol. 156; p. 32.
Brown, Edward, Omaha, Nebr. Horse-collar. No. 969,837; Sept. 13; Sp. p. 1512; Gaz. vol. 158; p. 259.
Brown, Edward C., Bismarck, N. D. Device for hanging storm-windows, screens, &c. No. 963,417; July 5; Sp. p. 915; Gaz. vol. 156; p. 135.
Brown, Edward E., New York, N. Y. Net. No. 953,255; Mar. 29; Sp. p. 5764; Gaz. vol. 152; p. 1043.
Brown, Edward L., Wabuska, Nev. Wrench. No. 978,688; Dec. 13; Sp. p. 2750; Gaz. vol. 161; p. 469.
Brown, Edward N., East Cleveland, assignor of one-half to J. F. Peterson and one-half to J. M. Bostick, Canton, Ohio. Gravity sash-lock. No. 976,777; Nov. 22; Sp. p. 5932; Gaz. vol. 160; p. 1001.
Brown, Egbert B., Los Angeles, Cal. Journal-lubricator. No. 969,838; Sept. 13; Sp. p. 1514; Gaz. vol. 158; p. 260.
Brown, Elmer E. (See Brown, Clarence R., assignor.)
Brown, Elmer E., Philadelphia, assignor to Buchanan Foundry Company, Lebanon, Pa. Core-forming apparatus. No. 950,202; Feb. 22; Sp. p. 5150; Gaz. vol. 151; p. 904.
Brown, Ernest, assignor of one-half to M. D. Williams, Middleport, N. Y. Potato-cutter. No. 947,467; Jan. 25; Sp. p. 5483; Gaz. vol. 150; p. 916.
Brown, Ernest C., New York, N. Y., assignor to Rotary Meter Company. Port-plate for rotary meters. No. 972,156; Oct. 11; Sp. p. 1408; Gaz. vol. 159; p. 253.
Brown, Ernest H., Cincinnati, Ohio. Device for cleaning windows. No. 950,991; Mar. 1; Sp. p. 1097; Gaz. vol. 152; p. 176.
Brown, Eugene H., Troy, N. Y. Folding-machine. No. 954,775; Apr. 12; Sp. p. 2344; Gaz. vol. 153; p. 405.
Brown, Eugene L., Jr., St. Louis, Mo. Unit reinforcing-frame for concrete construction. No. 965,070; July 19; Sp. p. 4491; Gaz. vol. 156; p. 747.
Brown, Firmin C., Charleston, W. Va. Food-warmer. No. 980,057; Dec. 27; Sp. p. 5711; Gaz. vol. 161; p. 982.
Brown, Francis C., New York, N. Y. Fountain-pen. No. 949,752; Feb. 22; Sp. p. 4121; Gaz. vol. 151; p. 746.
Brown, Francis C., New York, N. Y. Fountain-pen. No. 953,316; Mar. 29; Sp. p. 5879; Gaz. vol. 152; p. 1062.
Brown, Frank, Beverly, Mass. Cradle. No. 953,986; Apr. 5; Sp. p. 602; Gaz. vol. 153; p. 108.
Brown, Frank C., assignor of one-half to J. B. Brown, Shawnee, Ohio. Railway-switch lock. No. 950,471; Mar. 1; Sp. p. 6; Gaz. vol. 152; p. 4.
Brown, Frank H. and F. H., Portland, Oreg. Grinding and crushing mill. No. 958,085; May 17; Sp. p. 3580; Gaz. vol. 154; p. 603.
Brown, Franklin P., Dayton, Ohio. Hand-truck. No. 970,787; Sept. 20; Sp. p. 3541; Gaz. vol. 158; p. 606.
Brown, Fred H. (See Brown, Frank H. and F. H.)
Brown, Frederick E., Winona, Minn. Mold for brass castings. No. 966,306; Aug. 2; Sp. p. 970; Gaz. vol. 157; p. 155.
Brown, Garrett H. (See Brown, Henry W. and G. H.)
Brown, Garrett H., Syracuse, and H. W. Brown, Ithaca, N. Y. Valve-reseating device. No. 949,057; Feb. 15; Sp. p. 2699; Gaz. vol. 151; p. 480.
Brown, Gary G., Roseburg, Oreg. Combined pipe wrench and cutter. No. 946,103; Jan. 11; Sp. p. 2410; Gaz. vol. 150; p. 401.
Brown, George W., Brewton, Ala. Row-marker for plows. No. 946,574; Jan. 18; Sp. p. 3502; Gaz. vol. 150; p. 589.
Brown, George W., Ledgedale, Pa. Rotary engine. No. 966,648; Aug. 9; Sp. p. 1735; Gaz. vol. 157; p. 296.
Brown, George W., deceased, Somerville; O. C. Scales, administrator, assignor to W. H. Breen, Boston, Mass. Adjustable derrick. No. 975,505; Nov. 15; Sp. p. 3183; Gaz. vol. 160; p. 542.
Brown, Gilman W., West Newbury, Mass. Carbureter. No. 951,590; Mar. 8; Sp. p. 2286; Gaz. vol. 152; p. 396.
Brown, Harmon, Tell City, Ind. Scrubbing-machine. No. 969,032; Aug. 30; Sp. p. 6790; Gaz. vol. 157; p. 1183.
Brown, Harold P., Montclair, N. J. Electric bond for railways. No. 945,374; Jan. 4; Sp. p. 802; Gaz. vol. 150; p. 124.
Brown, Harry C., Spring Valley, N. Y. Hook. No. 979,926; Dec. 27; Sp. p. 5428; Gaz. vol. 161; p. 938.
Brown, Harry C., and B. A. Harris, Bloomington, Ill. Electric railway. No. 955,753; Apr. 19; Sp. p. 4455; Gaz. vol. 153; p. 769.
Brown, Henry C., Woodbury, N. J. Case for holding talking-machine records. No. 956,516; May 3; Sp. p. 18; Gaz. vol. 154; p. 6.
Brown, Henry C., assignor of two-thirds to H. Stockman, New York, N. Y. Cushion-tread vehicle-wheel. No. 976,846; Nov. 29; Sp. p. 6092; Gaz. vol. 160; p. 1049.
Brown, Henry D., and L. W. Blymyer, Los Angeles, Cal. Electric-light receptacle. No. 979,927; Dec. 27; Sp. p. 5430; Gaz. vol. 161; p. 938.
Brown, Henry L., Paterson, N. J., assignor to Brown Spin-Wright Company, New York, N. Y. Power-transmitting apparatus. No. 957,650; May 10; Sp. p. 2442; Gaz. vol. 154; p. 423.

Brown, Henry M., assignor to U. S. Bobbin and Shuttle Co., Providence, R. I. Loom-shuttle. No. 967,606; Aug. 16; Sp. p. 3772; Gaz. vol. 157; p. 648.
Brown, Henry P., Mount Vernon, assignor to General Device Manufacturing Company, New York, N. Y. Non-skidding device. No. 965,621; July 26; Sp. p. 5688; Gaz. vol. 156; p. 967.
Brown, Henry W. (See Brown, Garrett H. and H. W.)
Brown, Henry W. and G. H., Syracuse, N. Y. Air-pressure indicator. No. 945,216; Jan. 4; Sp. p. 431; Gaz. vol. 150; p. 72.
Brown, Herman G. (See Shelton and Brown.)
Brown, Herman G., assignor of one-half to A. F. Moody, Salt Lake City, Utah. Brake for machinery. No. 961,099; June 14; Sp. p. 1740; Gaz. vol. 155; p. 316.
Brown, Herman M. (See Brown, Joseph F. and H. M.)
Brown Hoisting Machinery Company, The. (See Brown, Alexander E., assignor.)
Brown Hoisting Machinery Company, The. (See Cannon, Charles R., assignor.)
Brown Hoisting Machinery Company, The. (See Deucher, Eugene G., assignor.)
Brown, Holmes G., Los Angeles, Cal. Adjustable stand. No. 967,493; Aug. 16; Sp. p. 3550; Gaz. vol. 157; p. 610.
Brown, Howard, Buffalo, Wyo. Attachment for seeders. No. 947,658; Jan. 25; Sp. p. 5915; Gaz. vol. 150; p. 982.
Brown, Howard W., trustee. (See Moebus, Henry E., assignor.)
Brown, Irving A., Cleveland, Ohio. Wire chain. No. 955,129; Apr. 19; Sp. p. 3090; Gaz. vol. 153; p. 555.
Brown, Isaac M., New London, Wis. Needle-holder. No. 945,015; Jan. 4; Sp. p. 8; Gaz. vol. 150; p. 4.
Brown, J Grove, and G. T. Bacon, assignors to Monarch Road Roller Company, Groton, N. Y. Steering mechanism for road-rollers. No. 963,509; July 5; Sp. p. 1093; Gaz. vol. 156; p. 166.
Brown, James A. (See Sutherland and Brown.)
Brown, James A., and F. E. Sutherland, assignors to The Radial Power Hammer Company, Los Angeles, Cal. Power-hammer. No. 973,620; Oct. 25; Sp. p. 4636; Gaz. vol. 159; p. 806.
Brown, James D. (See Keisling and Brown.)
Brown, Jasper M., Lynnville, Tenn. Buckle. No. 950,992; Mar. 1; Sp. p. 1099; Gaz. vol. 152; p. 177.
Brown, Jess B. (See Brown, Frank C., assignor.)
Brown, Jesse B., Toledo, Ohio. Compression-regulator. No. 949,969; Feb. 22; Sp. p. 4608; Gaz. vol. 151; p. 823.
Brown, Jesse B., Lansing, Mich. Compression-regulator for gas-engines. No. 970,462; Sept. 20; Sp. p. 2808; Gaz. vol. 158; p. 491.
Brown, Jesse B., Belding, Mich. Gas-engine. No. 976,034; Nov. 15; Sp. p. 4258; Gaz. vol. 160; p. 722.
Brown, Jesse B., Belding, Mich. Explosive-engine. No. 977,779; Dec. 6; Sp. p. 790; Gaz. vol. 161; p. 123.
Brown, John B., Akron, Ohio. Nut-lock. No. 977,507; Dec. 6; Sp. p. 183; Gaz. vol. 161; p. 30.
Brown, John H., West Hoboken, N. J., assignor to Brown Perfection Tube Company. Inner tube for pneumatic tires. No. 956,884; May 3; Sp. p. 841; Gaz. vol. 154; p. 133.
Brown, John M., Jersey City Heights, N. J. Chain-coupling. No. 975,323; Nov. 8; Sp. p. 2809; Gaz. vol. 160; p. 454.
Brown, John R., Vancouver, British Columbia, Canada. Cane-cutting machine. No. 953,592; Mar. 29; Sp. p. 6487; Gaz. vol. 152; p. 1159.
Brown, John R., assignor to Ohio Brass Company, Mansfield, Ohio. Pressure-regulator. No. 959,708; May 31; Sp. p. 7088; Gaz. vol. 154; p. 1203.
Brown, John R., assignor to Ohio Brass Company, Mansfield, Ohio. Pressure-regulator. No 969,519; Sept. 6; Sp. p. 781; Gaz. vol. 158; p. 123.
Brown, John R., assignor to Ohio Brass Company, Mansfield, Ohio. Gage-cock. No. 969,770; Sept. 13; Sp. p. 1339; Gaz. vol. 158; p. 237.
Brown, John W., Nappanee, Ind. Adjustable wagon-rack. No. 960,069; May 31; Sp. p. 7920; Gaz. vol. 154; p. 1330.
Brown, John W., Arroyo Grande, Cal. Tire-lifter. No. 960,070; May 31; Sp. p. 7922; Gaz. vol. 154; p. 1330.
Brown, John W., assignor to Collins Plow Company, Quincy, Ill. Baling-press. No. 977,780; Dec. 6; Sp. p. 793; Gaz. vol. 161; p. 124.
Brown, John W., Hubbard, and C. E. Doyle, Youngstown, Ohio. Trolley-wire ice-remover. No. 963,205; July 5; Sp. p. 466; Gaz. vol. 156; p. 64.
Brown, Joseph F. and H. M., Bristol, Tenn. Front-end arrangement. No. 958,720; May 24; Sp. p. 4993; Gaz. vol. 154; p. 845.
Brown, Joseph M., Austin, Ark. Tanning. No. 947,433; Jan. 25; Sp. p. 5407; Gaz. vol. 150; p. 966.
Brown, Julian L. R., Bridgeport, Conn. Cover for crucible-furnaces. No. 975,506; Nov. 15; Sp. p. 3184; Gaz. vol. 160; p. 542.
Brown, Julius, Peekskill, N. Y. Turbine. No. 967,494; Aug. 16; Sp. p. 3553; Gaz. vol. 157; p. 610.
Brown, Leonard L., assignor of one-fourth to G. T. Sigler, Clifton Forge, Va., and three-fourths to W. T. Sigler. Lock for journal-box lids. No. 972,749; Oct. 11; Sp. p. 2694; Gaz. vol. 159; p. 457.
Brown, Leslie A., Bedford, Ind. Railway-joint. No. 973,621; Oct. 25; Sp. p. 4639; Gaz. vol. 159; p. 806.
Brown, Lewis W., St. Louis, Mo. Fastener for gloves and other articles. No. 957,651; May 10; Sp. p. 2446; Gaz. vol. 154; p. 423.
Brown, Linus W., Bakersfield, Cal. Gas-separator for oil-wells. No. 968,534; Aug. 30; Sp. p. 5742; Gaz. vol. 157; p. 1012.
Brown, Luther P., Brooklyn, N. Y., assignor to Mono Service Bottle Company. Bottle-making machine. No. 968,535; Aug. 30; Sp. p. 5744; Gaz. vol. 157; p. 1013.
Brown, Luther S., Lemoore, Cal. Means for tire inflation. No. 946,717; Jan. 18; Sp. p. 3806; Gaz. vol. 150; p. 636.
Brown, Mark A., assignor of one-sixth to W. H. Meacham, one-sixth to A. W. Boyd, and one-sixth to C. M. Harrington, Chattanooga, Tenn. Air-brake coupling. No. 953,458; Mar. 29; Sp. p. 6198; Gaz. vol. 152; p. 1111.
Brown, Mary A., New York, N. Y. Card-index. No. 956,475; Apr. 26; Sp. p. 6047; Gaz. vol. 153; p. 1048.
Brown, Maurice D., Yonkers, and H. K. Beach, Hastings-upon-Hudson, N. Y. Braiding-machine. No. 965,437; July 26; Sp. p. 5265; Gaz. vol. 156; p. 901.
Brown, Merton G., Sandusky, Mich. Whip-holder. No. 951,361; Mar. 8; Sp. p. 1829; Gaz. vol. 152; p. 320.
Brown, Michael F., Seattle, Wash. Raft appliance. No. 972,054; Oct. 4; Sp. p. 1185; Gaz. vol. 159; p. 199.
Brown, Milton W., Trenton, N. J. Automatic rifle. No. 966,995; Aug. 9; Sp. p. 2508; Gaz. vol. 157; p. 413.
Brown, Nathaniel H., assignor to Williams, Brown and Earle, Philadelphia, Pa. Reflecting-lantern. No. 954,408; Apr. 5; Sp. p. 1505; Gaz. vol. 153; p. 250.
Brown, Nathaniel H., assignor to Williams, Brown and Earle, Philadelphia, Pa. Blue-printing machine. No. 962,741; June 28; Sp. p. 5290; Gaz. vol. 155; p. 924.
Brown, Nimrod W. L., Thomasville, Ala. Oil-cake envelop or press-cloth. No. 948,409; Feb. 8; Sp. p. 1329; Gaz. vol. 151; p. 238.
Brown, Nimrod W. L., Thomasville, Ala. Oil-press box. No. 953,317; Mar. 29; Sp. p. 5881; Gaz. vol. 152; p. 1062.
Brown, Nimrod W. L., Marietta, Ga. Oil-press box. No. 978,840; Dec. 20; Sp. p. 3046; Gaz. vol. 161; p. 542.
Brown, Otto R., Hornell, N. Y. Potato-digger point. No. 952,872; Mar. 22; Sp. p. 4935; Gaz. vol. 152; p. 888.
Brown, Otto R., Hornell, N. Y. Potato digger and separator. No. 952,873; Mar. 22; Sp. p. 4936; Gaz. vol. 152; p. 888.
Brown, Paul F., Hackensack, N. J., assignor of one-half to M. E. Monash, New York, N. Y. Radiation-calculator. No. 974,354; Nov. 1; Sp. p. 637; Gaz. vol. 160; p. 94.
Brown, Peabody A., Denver, Colo. Electrically-operated non-interfering alarm call-box. No. 949,970; Feb. 22; Sp. p. 4611; Gaz. vol. 151; p. 823.
Brown, Peabody A., Denver, Colo. Electrically-operated valve. No. 971,722; Oct. 4; Sp. p. 445; Gaz. vol. 159; p. 77.
Brown, Percy S. (See Kern, Edward F., assignor.)
Brown Perfection Tube Company. (See Brown, John H., assignor.)
Brown, Richard H., Sheepshead Bay, and R. J. Brown, Brooklyn, N. Y. Hose-supporter. No. 979,254; Dec. 20; Sp. p. 4008; Gaz. vol. 161; p. 689.
Brown, Richard L., and S. F. Bates, Leslie, Mo. Railway-track layer. No. 950,814; Mar. 1; Sp. p. 758; Gaz. vol. 152; p. 121.
Brown, Richard R., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing-machine cabinet. No. 946,893; Jan. 18; Sp. p. 4239; Gaz. vol. 150; p. 697.
Brown, Richard R., assignor to National Sewing Machine Company, Belvidere, Ill. Hinge. No. 971,723; Oct. 4; Sp. p. 449; Gaz. vol. 159; p. 78.
Brown, Robert A., and J. Pittings, Antler, N. D. Drill attachment. No. 977,267; Nov. 29; Sp. p. 7035; Gaz. vol. 160; p. 1196.
Brown, Robert E., Tidioute, Pa. Razor-strop. No. 947,011; Jan. 18; Sp. p. 4484; Gaz. vol. 150; p. 737.
Brown, Robert H., Los Angeles, Cal. Hose. No. 957,492; May 10; Sp. p. 2132; Gaz. vol. 154; p. 369.
Brown, Robert J. (See Brown, Richard H. and R. J.)
Brown, Robert L., *et al.* (See Weddle and Robinson, assignors.)
Brown, Robert P., Philadelphia, Pa. Collapsible receptacle. No. 953,593; Mar. 29; Sp. p. 6489; Gaz. vol. 152; p. 1160.
Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Saw-clamp. No. 945,217; Jan. 4; Sp. p. 434; Gaz. vol. 150; p. 72.
Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Stock-drawer. No. 962,122; June 21; Sp. p. 3953; Gaz. vol. 155; p. 687.
Brown, Roland W., Pittston, Me. Safety-envelop. No. 947,369; Jan. 25; Sp. p. 5268; Gaz. vol. 150; p. 885.
Brown & Root Company. (See Coffin, Henry E., assignor.)
Brown, Rosa, Elk City, Okla. Cow-milker. No. 966,307; Aug. 2; Sp. p. 972; Gaz. vol. 157; p. 155.
Brown, Ross D., assignor of one-half to R. H. Riffe, Muncie, Ind. Glass-gathering machine. No. 960,264; June 7; Sp. p. 48; Gaz. vol. 155; p. 11.

Alphabetical list of patentees—Continued.

Brown and Sharpe Manufacturing Company. (See Anthony, Frederick E., assignor.)
Brown & Sharpe Manufacturing Company. (See Spalding, Frank, assignor.)
Brown & Sharpe Mfg. Co. (See Parker, John, assignor.)
Brown, Sidney G., London, England. Submarine-cable telegraphy. No. 965,368; July 26; Sp. p. 5115; Gaz. vol. 156; p. 878.
Brown, Sidney G., London, England. Apparatus for producing and utilizing electric currents of high periodicity. No. 976,778; Nov. 22; Sp. p. 5933; Gaz. vol. 160; p. 1001.
Brown Spin-Wright Company. (See Brown, Henry L., assignor.)
Brown Straw Binder Company, The. (See Hancock, Harry A., assignor.)
Brown, Theodore P., assignor to Simplex Piano Player Co., Worcester, Mass. Keyless piano. No. 948,984; Feb. 8; Sp. p. 2530; Gaz. vol. 151; p. 430.
Brown, Theodore P., Worcester, Mass., assignor to Simplex Piano Player Company. Spool-adjusting device for musical instruments. No. 978,355; Dec. 13; Sp. p. 2028; Gaz. vol. 161; p. 353.
Brown, Theophilus, Worcester, Mass. Automatic speed control. No. 977,703; Dec. 6; Sp. p. 644; Gaz. vol. 161; p. 98.
Brown, Theophilus, assignor to Richardson Manufacturing Company, Worcester, Mass. Manure-spreader. No. 946,718; Jan. 18; Sp. p. 3808; Gaz. vol. 150; p. 636.
Brown, Theophilus, assignor to Richardson Manufacturing Company, Worcester, Mass. Manure-spreader. No. 947,277; Jan. 25; Sp. p. 5043; Gaz. vol. 150; p. 852.
Brown, Theophilus, assignor to Richardson Manufacturing Company, Worcester, Mass. Mechanism for transmitting rotary motion. No. 947,588; Jan. 25; Sp. p. 5768; Gaz. vol. 150; p. 959.
Brown, Thomas E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Limit-stop for hydraulic elevators. No. 952,097; Mar. 15; Sp. p. 3305; Gaz. vol. 152; p. 596.
Brown, Thomas H., assignor to The Buchanan Foundry Company, Lebanon, Pa. Apparatus for molding. No. 962,002; June 21; Sp. p. 3667; Gaz. vol. 155; p. 644.
Brown, Tom E. B., and J. A. Ross, Upper Holloway, London, England. Lubricator. No. 965,277; July 26; Sp. p. 4908; Gaz. vol. 156; p. 847.
Brown, Ulysses S., Logansport, Ind. Rotary cultivator. No. 972,503; Oct. 11; Sp. p. 2136; Gaz. vol. 159; p. 371.
Brown, Walter F., Worcester, Mass. Continuous-combustion heat-engine. No. 972,504; Oct. 11; Sp. p. 2138; Gaz. vol. 159; p. 372.
Brown, Walter F., St. Paul, assignor to W. F. Brown Company, Minneapolis, Minn. Wing-carrier. No. 976,629; Nov. 22; Sp. p. 5621; Gaz. vol. 160; p. 951.
Brown, Walter S., Bethlehem, assignor to A. F. Nagle, South Bethlehem, Pa. Valve. No. 949,697; Feb. 15; Sp. p. 3975; Gaz. vol. 151; p. 693.
Brown, Willard, Belfast, Me. Spring-wheel. No. 968,643; Aug. 30; Sp. p. 5980; Gaz. vol. 157; p. 1051.
Brown, William. (See O'Donnell, John J., assignor.)
Brown, William A. J., Lancaster, Kans. Cultivator. No. 979,928; Dec. 27; Sp. p. 5432; Gaz. vol. 161; p. 939.
Brown, William B., Bigfork, Mont. Attachment for logging-cars. No. 948,159; Feb. 1; Sp. p. 781; Gaz. vol. 151; p. 128.
Brown, William B., Pittsburg, Pa. Wrench. No. 962,304; June 21; Sp. p. 4337; Gaz. vol. 155; p. 749.
Brown, William B., Jr., Mount Vernon, Ohio. Eyeglass-mounting. No. 977,163; Nov. 29; Sp. p. 6833; Gaz. vol. 160; p. 1160.
Brown, William C., Lake Pleasant, N. Y. Snow plow and roller. No. 979,255; Dec. 20; Sp. p. 4009; Gaz. vol. 161; p. 689.
Brown, William E., and R. J. Scovill, Glens Falls, N. Y. Paper-machine. No. 964,206; July 12; Sp. p. 2566; Gaz. vol. 156; p. 423.
Brown, William F., Oakland, Cal. Plate-lifter. No. 972,055; Oct. 4; Sp. p. 1187; Gaz. vol. 159; p. 200.
Brown, William G. (See Houser, Winfield S., assignor.)
Brown, William H., York, England. Bond-tie for walls and the like. No. 947,194; Jan. 18; Sp. p. 4816; Gaz. vol. 150; p. 794.
Brown, William H., Newark, Ohio. Churn. No. 948,004; Feb. 1; Sp. p. 466; Gaz. vol. 151; p. 75.
Brown, William H., Indianapolis, Ind. Rail-holder. No. 959,451; May 31; Sp. p. 6542; Gaz. vol. 154; p. 1118.
Brown, William J., Chicago, Ill. Locomotive ash chute and flusher. No. 952,559; Mar. 22; Sp. p. 4256; Gaz. vol. 152; p. 780.
Brown, William J., Chicago, Ill. Locomotive-ash-pan-dumping device. No. 960,806; June 7; Sp. p. 1152; Gaz. vol. 155; p. 192.
Brown, William L., Mannington, W. Va. Soil-tiller. No. 951,522; Mar. 8; Sp. p. 2154; Gaz. vol. 152; p. 374.
Brown, William M., Johnstown, Pa., assignor to The Lorain Steel Company. Retaining device for switch-points. No. 960,265; June 7; Sp. p. 56; Gaz. vol. 155; p. 12.
Brown, William S., Enterprise, W. Va. Shipping-card holder. No. 961,678; June 14; Sp. p. 2970; Gaz. vol. 155; p. 514.
Brown, William S., Pardoe, Pa. Envelop. No. 974,117; Nov. 1; Sp. p 22; Gaz. vol. 160; p. 6.
Brown, William S., and F. M. Cruse, assignors of one-third to D. Cruse, Wichita, Kans. Recorder. No. 967,321; Aug. 16; Sp. p. 3182; Gaz. vol. 157; p. 551.
Browne, Alexander P., Brookline, Mass., assignor to L. F. Sherman, trustee. Coin control for motor-vehicles. No. 964,845; July 19; Sp. p. 4035; Gaz. vol. 156; p. 672.
Browne Apparatus Company. (See Browne, Ralph C., assignor.)
Browne, Charles A. (See Weston, Lawrence G., assignor.)
Browne, George A. (See Forrester and Browne.)
Browne, George E., Greenfield, Mich. Clamp. No. 969,771; Sept. 13; Sp. p. 1341; Gaz. vol. 158; p. 237.
Browne, George W., Brooklyn, N. Y. Vaporic-steam gun. No. 964,386; July 12; Sp. p. 2925; Gaz. vol. 156; p. 483.
Browne, Harrison H., and J. M. Asher, Jr., San Diego, Cal. Resilient wheel. No. 950,761; Mar. 1; Sp. p. 641; Gaz. vol. 152; p. 103.
Browne, Louis A., *et al.* (See Runner, John B., assignor.)
Browne, Louis L., Matteawan, N. Y. Washtray. No. 962,419; June 28; Sp. p. 4600; Gaz. vol. 155; p. 812.
Browne, Ralph C., assignor, by mesne assignments, to Browne Apparatus Company, Salem, Mass. Telegraphone. No. 947,148; Jan. 18; Sp. p. 4712; Gaz. vol. 150; p. 779.
Browne, Ralph C., assignor to Browne Apparatus Company, Salem, Mass. Indicating-switch. No. 973,257; Oct. 18; Sp. p. 3858; Gaz. vol. 159; p. 660.
Browne, Ralph C., Salem, assignor to J. Abbott, Winchester, Mass. Current-reinforcing means. No. 960,495; June 7; Sp. p. 514; Gaz. vol. 155; p. 85.
Browne, William H., Brooklyn, N. Y. Lighting apparatus. No. 972,328; Oct. 11; Sp. p. 1764; Gaz. vol. 159; p. 310.
Brownfield, James A., Covington, Ky. Brake-shoe for street-railway cars. No. 949,753; Feb. 22; Sp. p. 4123; Gaz. vol. 151; p. 746.
Browning, Alfred, Old Hill, assignor to W. Jones, Amblecote, England. Sewage-distributer. No. 955,754; Apr. 19; Sp. p. 4457; Gaz. vol. 153; p. 769.
Browning, John B., Kansas City, Mo., assignor to Victor Talking Machine Company, Camden, N. J. Talking-machine. No. 948,040; Feb. 1; Sp. p. 544; Gaz. vol. 151; p. 87.
Browning, John M., Ogden, Utah. Safety device for fire-arms. No. 947,478; Jan. 25; Sp. p. 5535; Gaz. vol. 150; p. 921.
Browning, Joseph R., Springhill, La. Valve-operating mechanism for presses. No. 969,457; Sept. 6; Sp. p. 635; Gaz. vol. 158; p. 102.
Browning, Walter H. (See O'Brien and Browning.)
Brownlee, James H., Philadelphia, Pa. Gas-heated iron. No. 969,033; Aug. 30; Sp. p. 6792; Gaz. vol. 157; p. 1183.
Brownlee, James L., Wheeling, W. Va. Spring-clip for reinforcing-bars. No. 977,704; Dec. 6; Sp. p. 646; Gaz. vol. 161; p. 98.
Brownlee, Leslie A., New Orleans, La. Folding bed. No. 963,273; July 5; Sp. p. 628; Gaz. vol. 156; p. 88.
Brownson, Percy J. (See Brownson, Ralph and P. J.)
Brownson, Ralph, St. Paul, Minn. Ash-shovel. No. 960,266; June 7; Sp. p. 58; Gaz. vol. 155; p. 13.
Brownson, Ralph and P. J., St. Paul, Minn. Ash-sifter. No. 965,797; July 26; Sp. p. 6057; Gaz. vol. 156; p. 1027.
Brownson, Ralph and P. J., St. Paul, Minn. Horse-collar-stuffing machine. No. 966,079; Aug. 2; Sp. p. 506; Gaz. vol. 157; p. 82.
Brownson, Ralph and P. J., St. Paul, Minn. Stuffing-machine. No. 976,982; Nov. 29; Sp. p. 6427; Gaz. vol. 160; p. 1097.
Brownstein, Benjamin, assignor of one-half to S. Zorn, Trenton, N. J. Safety hat-pin. No. 954,776; Apr. 12; Sp. p. 2346; Gaz. vol. 153; p. 405.
Brownsville Glass Company. (See Speer and Harvey, assignors.)
Broyles, Jasper N. (See Reynolds, John L., assignor.)
Broyles, Winn. (See Jones, Jeremiah C., assignor.)
Brubaker, William L., Harrisburg, Pa. Automatic regulating device for water-tanks. No. 949,616; Feb. 15; Sp. p. 3834; Gaz. vol. 151; p. 668.
Bruce, Alexander, Waltham, Mass. Milking appliance. No. 972,596; Oct. 11; Sp. p. 2375; Gaz. vol. 159; p. 405.
Bruce, George, Toronto, Ontario, Canada. Controlling combustion in furnaces. No. 945,443; Jan. 4; Sp. p. 939; Gaz. vol. 150; p. 147.
Bruce, Harry L., Portland, Oreg. Hot-water heating system. No. 956,677; May 3; Sp. p. 370; Gaz. vol. 154; p. 61.
Bruce, William M., Jr., Springfield, Ohio, assignor, by mesne assignments, to The American Automatic Telephone Company, Rochester, N. Y. Lock-out device for party-line telephones. No. 972,329; Oct. 11; Sp. p. 1766; Gaz. vol. 159; p. 310.
Brücke, Otto, Frankfort-on-the-Main, Germany. Apparatus for the purification of oils and similar bodies. No 963,510; July 5; Sp. p. 1095; Gaz. vol. 156; p. 167.

Alphabetical list of patentees—Continued.

Brucker, Francis, and M. T. Love, assignors to The Standard Manufacturing Company, Shelby, Ohio. Spring-hinge. No. 948,410; Feb. 8; Sp. p. 1331; Gaz. vol. 151; p. 238.

Brucklacher, John C., Louisville, Ky., assignor of one-half to R. Anders, Oak Park, Ill. Safe. No. 968,536; Aug. 30; Sp. p. 5752; Gaz. vol. 157; p. 1013.

Bruckmann, Ludwig, Pforzheim, Germany. Apparatus for automatically making soldered cord or twisted chain. No. 965,071; July 19; Sp. p. 4492; Gaz. vol. 156; p. 747.

Bruckmann, Ludwig, Pforzheim, Germany. Making chain. No. 975,928; Nov. 15; Sp. p. 4067; Gaz. vol. 160; p. 686.

Bruckner, Rudolph E., Mount Vernon, N. Y. Inverted mantle-burner. No. 979,742; Dec. 27; Sp. p. 5025; Gaz. vol. 161; p. 877.

Bruder, Albert A. and A. J., Detroit, Mich. Ventilating device for water-closets. No. 962,490; June 28; Sp. p. 4755; Gaz. vol. 155; p. 837.

Bruder, August J. (See Bruder, Albert A. and A. J.)

Bruderlein, Charles, New York, N. Y. Puzzle. No. 960,071; May 31; Sp. p. 7923; Gaz. vol. 154; p. 1330.

Bruders, Peter, Aachen, Germany. Feeding-bottle for children. No. 953,256; Mar. 29; Sp. p. 5765; Gaz. vol. 152; p. 1043.

Bruegel, Ernst, Westfield, Wis. Wringer-roll. No. 949,564; Feb. 15; Sp. p. 3745; Gaz. vol. 151; p. 651.

Brueggemann, Henry B., Cincinnati, Ohio. Guide for band-saws. No. 964,846; July 19; Sp. p. 4038; Gaz. vol. 156; p. 672.

Bruegger, Robert D. (See Bruegger, Zeno A. and R. D.)

Bruegger, Zeno A. and R. D., Culbertson, Mont. Spring-wheel. No. 977,368; Nov. 29; Sp. p. 7256; Gaz. vol. 160; p. 1231.

Bruffy, Thomas R., Newlyn, W. Va. Forming bent wooden articles and preventing straightening thereof. No. 966,308; Aug. 2; Sp. p. 973; Gaz. vol. 157; p. 156.

Brugler, James K., St. Louis, Mo. Portable chute for directing water to current-motors. No. 946,104; Jan. 11; Sp. p. 2411; Gaz. vol. 150; p. 401.

Bruhn, Wilhelm, Alt-Heikendorf, near Kiel, Germany. Press for floor-boards. No. 951,557; Mar. 8; Sp. p. 2226; Gaz. vol. 152; p. 386.

Brukenhaus, Robert, Haspe, near Hagen, Germany. Regulating apparatus for hot-water pipes and the like. No. 961,402; June 14; Sp. p. 2377; Gaz. vol. 155; p. 420.

Brumback, Theodore L., Stanleyton, Va. Tooth for husking-rolls. No. 947,787; Feb. 1; Sp. p. 21; Gaz. vol. 151; p. 6.

Brumbaugh, Oliver, Louisville, Ohio. Building-block. No. 946,330; Jan. 11; Sp. p. 2904; Gaz. vol. 150; p. 481.

Brumley, Howard V., assignor to Whitall Tatum Company, New York, N. Y. Breast-pump. No. 949,258; Feb. 15; Sp. p. 3097; Gaz. vol. 151; p. 547.

Brun, August, Chicago, Ill. Life-boat apparatus. No. 972,809; Oct. 18; Sp. p. 2812; Gaz. vol. 159; p. 503.

Brundage, Samuel M. (See Comstock, Horace A., assignor.)

Brunello, Emilio F., Preacher, Va. Umbrella. No. 952,504; Mar. 22; Sp. p. 4129; Gaz. vol. 152; p. 760.

Bruner, Adam B., Los Angeles, Cal. Hydrocarbon-burner. No. 949,214; Feb. 15; Sp. p. 2997; Gaz. vol. 151; p. 532.

Bruner, William R. (See Cookingham, Peter P., assignor.)

Brunhoff Manufacturing Company, The. (See Walker, Edwin, assignor.)

Brunhouse, Frederick C., Philadelphia, Pa. Speed-changing mechanism. No. 964,847; July 19; Sp. p. 4039; Gaz. vol. 156; p. 673.

Brunke, Benjamin J., Campbell, Nebr. Draft-equalizer. No. 951,210; Mar. 8; Sp. p. 1503; Gaz. vol. 152; p. 272.

Brünler, Oscar H. U., Brussels, Belgium. Steam-generator with water-immersed flame. No. 971,724; Oct. 4; Sp. p. 452; Gaz. vol. 159; p. 78.

Brunner, Hans. (See Loew, Lawrence, and Brunner.)

Brunner, Hans, Spokane, Wash. Filter. No. 960,267; June 7; Sp. p. 59; Gaz. vol. 155; p. 13.

Brunson, Elmer E., Chicago, Ill. Manifolding device. No. 971,725; Oct. 4; Sp. p. 453; Gaz. vol. 159; p. 78.

Brunst, Henry C., and L. R. Roland, Covington, Ky. Chalk-holder. No. 972,157; Oct. 11; Sp. p. 1410; Gaz. vol. 159; p. 253.

Brunswick-Balke-Collender Company, The. (See McIntire, Jacob N., assignor.)

Brush, Alanson P., Detroit, Mich. Motor-vehicle. No. 966,519; Aug. 9; Sp. p. 1475; Gaz. vol. 157; p. 253.

Brush, Alanson P., Detroit, Mich. Controlling mechanism for change-speed and reversing gearing. No. 975,393; Nov. 15; Sp. p. 2960; Gaz. vol. 160; p. 502.

Brush Mop Wringer Manufacturing Company, The. (See Beazley, Joseph O., assignor.)

Brushaber, Charles. (See Nash, Lawrence S., assignor.)

Brussel, Hugues, St. Louis, Mo. System of centering for reinforced concrete construction. No. 954,165; Apr. 5; Sp. p. 995; Gaz. vol. 153; p. 168.

Brust, Heinrich, Cassel, Germany. Projectile. No. 965,278; July 26; Sp. p. 4909; Gaz. vol. 156; p. 847.

Bryan, Benjamin F. (See Sphaler and Bryan.)

Bryan, Clarence H. (See Holsman and Bryan.)

Bryan, Gordon, Dallas, Tex., assignor to B. F. Watkins, Morristown, N. J. Portable sawmill. No. 951,937; Mar. 15; Sp. p. 3008; Gaz. vol. 152; p. 545.

Bryan, Harry E., Cadiz, Ohio. Poultry-fountain. No. 979,420; Dec. 27; Sp. p. 4319; Gaz. vol. 161; p. 766.

Bryan, Harry E., Cadiz, Ohio. Poultry-feeder. No. 979,421; Dec. 27; Sp. p. 4322; Gaz. vol. 161; p. 767.

Bryan, John, Yellow Springs, Ohio. Railway-car. No. 954,166; Apr. 5; Sp. p. 999; Gaz. vol. 153; p. 168.

Bryan, John, Yellow Springs, Ohio. System to prevent the overflowing of rivers. No. 969,334; Sept. 6; Sp. p. 386; Gaz. vol. 158; p. 62.

Bryan, John, Yellow Springs, Ohio. Freight-car and the like. No. 977,705; Dec. 6; Sp. p. 649; Gaz. vol. 161; p. 99.

Bryant, Charles K. (See Ray, Mark G., assignor.)

Bryant, Dalton W., Carbondale, Pa. Pocket-knife. No. 975,015; Nov. 8; Sp. p. 2134; Gaz. vol. 160; p. 348.

Bryant Electric Company, The. (See Badeau, Harry U., assignor.)

Bryant Electric Company, The. (See Castonguay, Leger J., assignor.)

Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)

Bryant Electric Company, The. (See Moulthrop, Lembert H., assignor.)

Bryant Electric Company, The. (See Poole, Frederick P., assignor.)

Bryant Electric Company, The. (See Poole and Badeau, assignors.)

Bryant Electric Company, The. (See Seeley, Frank E., assignor.)

Bryant Electric Company, The. (See Slady, Frank W., assignor.)

Bryant Electric Company, The. (See Thomas, George B., assignor.)

Bryant, Ellsworth S., Detroit, Mich. Reversible propeller. No. 961,285; June 14; Sp. p. 2132; Gaz. vol. 155; p. 382.

Bryant, Frederic J., New York, N. Y. Game-table. No. 971,726; Oct. 4; Sp. p. 459; Gaz. vol. 159; p. 79.

Bryant, George H., and A. Ziesing, Chicago, Ill. Car-wheel. No. 974,549; Nov. 1; Sp. p. 1098; Gaz. vol. 160; p. 165.

Bryant, Henry E., Atlanta, Ga. Combined eraser and pencil-sharpener. No. 960,984; Sept. 20; Sp. p. 3923; Gaz. vol. 158; p. 670.

Bryant, Joseph D., Columbus, Ohio. Liquid-wax finish. No. 975,394; Nov. 15; Sp. p. 2962; Gaz. vol. 160; p. 503.

Bryant, Noah, Kalamazoo, Mich. Save-all for paper-making machines. No. 964,897; July 19; Sp. p. 4144; Gaz. vol. 156; p. 690.

Bryant, Richard S., Columbus, assignor, by mesne assignments, to The United Rim Company, Akron, Ohio. Tire-fastening device. No. 968,446; Aug. 23; Sp. p. 5542; Gaz. vol. 157; p. 956.

Bryant, Richard S., Columbus, assignor, by mesne assignments, to The United Rim Company, Akron, Ohio. Tire-retaining flange for wheel-rims. No. 973,162; Oct. 18; Sp. p. 3657; Gaz. vol. 159; p. 628.

Bryant, Willard G., Detroit, Mich. Violin-bow. No. 965,072; July 19; Sp. p. 4496; Gaz. vol. 156; p. 748.

Bryant, William A., assignor of nine-twentieths to J. A. Lancaster and W. W. Wilken, Wetumpka, Ala. Expansion-bolt. No. 952,783; Mar. 22; Sp. p. 4763; Gaz. vol. 152; p. 858.

Bryant, William A., assignor of nine-twentieths to J. A. Lancaster and J. R. Gamble, Wetumpka, Ala. Expansion-bolt. No. 962,306; June 21; Sp. p. 4338; Gaz. vol. 155; p. 749.

Bryant, William A., assignor of one-third to J. A. Lancaster and J. R. Gamble, Wetumpka, Ala. Station-indicator. No. 973,749; Oct. 25; Sp. p. 4898; Gaz. vol. 159; p. 852.

Bryar, George, assignor to F. Playter, Boston, Mass. Wrench. No. 956,280; Apr. 26; Sp. p. 5624; Gaz. vol. 153; p. 981.

Bryen, George J., Duquesne, Pa. Engine-cylinder. No. 958,905; May 24; Sp. p. 5443; Gaz. vol. 154; p. 912.

Bryers, Joseph, Chicago, Ill. Cooking utensil. No. 971,727; Oct. 4; Sp. p. 463; Gaz. vol. 159; p. 79.

Bryers, William N., Helmer, Mich. Cherry-picker. No. 977,369; Nov. 29; Sp. p. 7258; Gaz. vol. 160; p. 1232.

Bryhni, Haakon, Börsen, near Trondhjem, Norway. Photometer. No. 959,051; May 24; Sp. p. 5718; Gaz. vol. 154; p. 960.

Bryk, Ernst. (See Schmidt and Bryk.)

Bryk, Ernst. (See Schmidt, Bryk, and Voss.)

Brynteson, Alfred, St. Paul, Minn. Ventilator. No. 952,505; Mar. 22; Sp. p. 4131; Gaz. vol. 152; p. 761.

Bryson, Charles R., Pittsburg, Pa. Composition of elements to be used for the manufacture of an improved quality of metal. No. 952,069; Mar. 15; Sp. p. 3259; Gaz. vol. 152; p. 587.

Bryson, Harry B. (See Fogler, George L., assignor.)

Bubel, William, Salt Lake City, Utah. Combination-bed. No. 948,411; Feb. 8; Sp. p. 1333; Gaz. vol. 151; p. 238.

Bucceri, Ignazio, Brooklyn, assignor of one-half to F. Ricart, New York, N. Y. Inhaler. No. 962,617; June 28; Sp. p. 5033; Gaz. vol. 155; p. 880.

Buch, Charles A., *et al.* (See Beahna, Peter, assignor.)

Buch, Frederick W., Jr., assignor of one-half to A. F. Meyer, Cleveland, Ohio. Seat-cushion. No. 949,461; Feb. 15; Sp. p. 3522; Gaz. vol. 151; p. 615.

Alphabetical list of patentees—Continued.

Buch, Royer S., Elizabethtown, Pa. Molding-machine. No. 953,894; Apr. 5; Sp. p. 415; Gaz. vol. 153; p. 76.
Buchalka, Anton, Braddock, Pa. Collapsible crate. No. 964,207; July 12; Sp. p. 2567; Gaz. vol. 156; p. 423.
Buchan, Hugh G., Woodbridge township, Middlesex county, N. J. Leaf-binder. No. 969,936; Sept. 13; Sp. p. 1706; Gaz. vol. 158; p. 294.
Buchanan Foundry Company. (See Brown, Elmer E., assignor.)
Buchanan Foundry Company, The. (See Brown, Thomas H., assignor.)
Buchanan, Frank L., St. Louis, Mo. Jig. No. 962,618; June 28; Sp. p. 5035; Gaz. vol. 155; p. 880.
Buchanan, James B., Chicago, Ill. Dentist's flask. No. 963,418; July 5; Sp. p. 917; Gaz. vol. 156; p. 136.
Buchanan, James L., *et al.* (See Wood, Sidney J., assignor.)
Buchanan, James W., Asheville, N. C. Reversible plow. No. 966,791; Aug. 9; Sp. p. 2080; Gaz. vol. 157; p. 346.
Buchanan, John, Holland, Mich. Flying-machine. No. 959,199; May 24; Sp. p. 6037; Gaz. vol. 154; p. 1009.
Buchanan, John H., Ashley, Pa. Mail-handling device. No. 966,649; Aug. 9; Sp. p. 1737; Gaz. vol. 157; p. 297.
Buchanan, John H., assignor of one-third to J. H. Warner and one-third to J. F. Thomas, Ashley, Pa. Mail-handling device. No. 948,087; Feb. 1; Sp. p. 645; Gaz. vol. 151; p. 104.
Buchanan, John J. (See Kops and Buchanan.)
Buchanan, Judson, Chattanooga, Tenn. Plow. No. 962,195; June 21; Sp. p. 4111; Gaz. vol. 155; p. 713.
Buchanan, Leonard B., Woburn, assignor to Stone and Webster, Boston, Mass. Automobile-horn. No. 971,169; Sept. 27; Sp. p. 4327; Gaz. vol. 158; p. 759.
Buchanan, Rip V., Princeton, Ill. Lamp-burner. No. 946,331; Jan. 11; Sp. p. 2906; Gaz. vol. 150; p. 481.
Buchanan, Robert, Liverpool, England. Flour-milling. No. 977,431; Dec. 6; Sp. p. 10; Gaz. vol. 161; p. 5.
Buchanan, William A., Asheville, N. C., assignor to Ball Bearing Coupler Company. Thill-coupling. No. 972,096; Oct. 4; Sp. p. 1257; Gaz. vol. 159; p. 213.
Buchanan, William R., Shetlerville, Ill. Wire-stretcher. No. 975,324; Nov. 8; Sp. p. 2810; Gaz. vol. 160; p. 454.
Buchenberg, Alvin E., assignor, by mesne assignments, to The Toledo Electric Welder Company, Toledo, Ohio. Electric welding-machine. No. 959,305; May 24; Sp. p. 6245; Gaz. vol. 154; p. 1045.
Buchenberg, Alvin E., Toledo, assignor, by mesne assignments, to The Toledo Electric Welder Company, Cincinnati, Ohio. Electric welding apparatus. No. 966,382; Aug. 2; Sp. p. 1110; Gaz. vol. 157; p. 179.
Bucher & Gibbs Plow Company, The. (See Niesz, Frank B., assignor.) (Reissue.)
Buchheit, Charles, St. Louis, Mo. Brush bottle-cleaning machine. No. 957,301; May 10; Sp. p. 1745; Gaz. vol. 154; p. 305.
Buchholz, Mary M., and M. A. Malloy, Spokane, Wash. Supporter. No. 950,993; Mar. 1; Sp. p. 1100; Gaz. vol. 152; p. 177.
Büchl, Georg A., Rochester, N. Y. Combined curtain and shade holder. No. 950,432; Feb. 22; Sp. p. 5591; Gaz. vol. 151; p. 980.
Büchler, Hans, assignor to Stauwerke A. G., Zurich, Switzerland. Automatic valve or gate for weirs or the like. No. 952,725; Mar. 22; Sp. p. 4627; Gaz. vol. 152; p. 838.
Büchler, Hans, assignor to Stanwerke A. G., Zurich, Switzerland. Automatic valve or gate for weirs or the like. No. 972,992; Oct. 18; Sp. p. 3273; Gaz. vol. 159; p. 570.
Buchler, Isidor, New York, and W. Wasserstrom, Brooklyn, N. Y. Razor-stropping machine. No. 955,578; Apr. 19; Sp. p. 4038; Gaz. vol. 153; p. 709.
Büchner, Louis F. A. (See Greene and Büchner.)
Buchwald, Paul R., Lauraville, Md. Painting-machine. No. 951,386; Mar. 8; Sp. p. 1882; Gaz. vol. 152; p. 328.
Buck, Charles B., Washington, D. C. Temporary binder. No. 960,240; May 31; Sp. p. 8246; Gaz. vol. 154; p. 1387.
Buck, Charles H. (See Buck, Clarence U., assignor.)
Buck, Clarence U., assignor of one-half to C. H. Buck, Coudersport, Pa. Percolator. No. 959,110; May 24; Sp. p. 5848; Gaz. vol. 154; p. 980.
Buck, Louis G., Andover, assignor to J. W. Robinson, North Andover, Mass. Printing and cutting machine. No. 956,476; Apr. 26; Sp. p. 6050; Gaz. vol. 153; p. 1049.
Buck, Orlando J., Chicago, Ill. Chewing-gum. No. 969,458; Sept. 6; Sp. p. 637; Gaz. vol. 158; p. 102.
Buck, Philip, Rugby, Tenn. Bottle and lamp-chimney cleaner. No. 973,911; Oct. 25; Sp. p. 5245; Gaz. vol. 159; p. 909.
Buck, Vertrude P., assignor to Shawmut Machinery Company, Boston, Mass. Polishing-machine for use in repairing cracks in patent-leather. No. 973,912; Oct. 25; Sp. p. 5247; Gaz. vol. 159; p. 909.
Buck, William C., Peterborough, Ontario, Canada. Pump-piston. No. 952,304; Mar. 15; Sp. p. 3719; Gaz. vol. 152; p. 665.
Buck, William F., Chicago, Ill. Superheater. No. 966,792; Aug. 9; Sp. p. 2081; Gaz. vol. 157; p. 346.
Buck, William F., Chicago, Ill., and H. W. Jacobs, Topeka, Kans. Superheater. No. 971,522; Oct. 4; Sp. p. 22; Gaz. vol. 159; p. 6.
Buck, William T., Vliets, Kans. Cable-supporting pulley-bracket. No. 977,593; Dec. 6; Sp. p. 409; Gaz. vol. 161; p. 60.
Buck, William T., Vliets, Kans. Mail carrier or box. No. 977,706; Dec. 6; Sp. p. 651; Gaz. vol. 161; p. 99.
Buck, William T., Vliets, Kans. Cable-track support. No. 978,134; Dec. 13; Sp. p. 1562; Gaz. vol. 161; p. 277.
Buckey, George J., Hanover, Pa. Plowshare. No. 949,617; Feb. 15; Sp. p. 3836; Gaz. vol. 151; p. 668.
Buckey, Thomas W., *et al.* (See Christmas, William W., assignor.)
Buckeye, George J., and J. Buerlein, Joliet, Ill. Cement-brick machine. No. 954,418; Apr. 12; Sp. p. 1529; Gaz. vol. 153; p. 281.
Buckeye Steel Castings Company, The. (See Bush, Samuel P., assignor.)
Buckham, George T. (See Dawson and Buckham.)
Buckham, George T., assignor to Vickers Sons & Maxim Limited, Westminster, London, England. Cartridge-feed mechanism of Maxim guns. No. 951,999; Mar. 15; Sp. p. 3130; Gaz. vol. 152; p. 564.
Buckingham, Benjamin J., assignor, by mesne assignments, to Buckingham-Rae Company, Chicago, Ill. Garment-holder. No. 951,628; Mar. 8; Sp. p. 2365; Gaz. vol. 152; p. 410.
Buckingham, Benjamin J., assignor to Buckingham-Rae Company, Chicago, Ill. Dressmaker's fitting-stand. No. 963,355; July 5; Sp. p. 785; Gaz. vol. 156; p. 115.
Buckingham, Benjamin J., assignor to Buckingham-Rae Company, Chicago, Ill. Garment-holder. No. 969,520; Sept. 6; Sp. p. 788; Gaz. vol. 158; p. 123.
Buckingham, Fremont H., assignor to The Standard Computing Scale Company, Detroit, Mich. Platform lever mechanism. No. 967,880; Aug. 23; Sp. p. 4323; Gaz. vol. 157; p. 762.
Buckingham, John L., Laton, Cal. Combination-harrow. No. 962,742; June 28; Sp. p. 5292; Gaz. vol. 155; p. 924.
Buckingham-Rae Company. (See Buckingham, Benjamin J., assignor.)
Buckingham, Roswell H., Barberton, Ohio, assignor of one-half to himself, and one-half to C. E. Pickard, Chicago, Ill. Removable-rim wheel. No. 954,076; Apr. 5; Sp. p. 790; Gaz. vol. 153; p. 137.
Buckingham, Roswell H., assignor to The Barberton Novelty Company, Barberton, Ohio. Garment-support. No. 973,750; Oct. 25; Sp. p. 4900; Gaz. vol. 159; p. 852.
Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-door lock. No. 956,281; Apr. 26; Sp. p. 5624; Gaz. vol. 153; p. 981.
Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Rail-brace. No. 956,282; Apr. 26; Sp. p. 5625; Gaz. vol. 153; p. 982.
Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Truck side frame. No. 958,474; May 17; Sp. p. 4516; Gaz. vol. 154; p. 739.
Buckland, Alfred L., Marietta, assignor of one-half to J. Donlon, Madison, Minn. Billiard-cue tip. No. 952,600; Mar. 22; Sp. p. 4357; Gaz. vol. 152; p. 795.
Buckland, Amos B., Rochester, N. Y. Disinfecting device. No. 959,111; May 24; Sp. p. 5849; Gaz. vol. 154; p. 980.
Buckland, Bradford M. (See All and Buckland.)
Buckland, Warren L., Rochester, N. Y. Rail-joint. No. 972,993; Oct. 18; Sp. p. 3275; Gaz. vol. 159; p. 570.
Buckler, James, Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Weaving pile fabrics. No. 959,306; May 24; Sp. p. 6247; Gaz. vol. 154; p. 1045.
Buckler, James, Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Pile-fabric loom. No. 970,463; Sept. 20; Sp. p. 2812; Gaz. vol. 158; p. 492.
Buckley, Arthur H., Cincinnati, Ohio. Manufacture of ice. No. 961,839; June 21; Sp. p. 3318; Gaz. vol. 155; p. 590.
Buckley, Jeremiah C., Detroit, Mich. Tool-holding block. No. 970,177; Sept. 13; Sp. p. 2204; Gaz. vol. 158; p. 375.
Buckley, John, Chicago, Ill. Hand-truck. No. 948,964; Feb. 8; Sp. p. 2483; Gaz. vol. 151; p. 422.
Buckley, Joseph, Methuen, Mass. Steam-generator. No. 958,358; May 17; Sp. p. 4287; Gaz. vol. 154; p. 699.
Buckley, Patrick J., Waukesha, Wis. Making gas from peat. No. 951,799; Mar. 15; Sp. p. 2724; Gaz. vol. 152; p. 498.
Buckley, William E., Chicago, Ill. Portable photographic dark room. No. 949,971; Feb. 22; Sp. p. 4616; Gaz. vol. 151; p. 824.
Buckman, Edward. (See Maxwell and Buckman.)
Buckman, Isaac, Baltimore, Md. Optometer. No. 947,710; Jan. 25; Sp. p. 5997; Gaz. vol. 150; p. 999.
Buckman, Walter L. (See Morrison, Sylvanus S., assignor.)
Buckmaster, Edward J., Laurel Hill, N. Y. Boiler-tube cleaner. No. 960,496; June 7; Sp. p. 516; Gaz. vol. 155; p. 86.
Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 968,117; Aug. 23; Sp. p. 4848; Gaz. vol. 157; p. 842.
Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 968,118; Aug. 23; Sp. p. 4852; Gaz. vol. 157; p. 842.

Alphabetical list of patentees—Continued.

Bucknam, Ezra S., assignor to The J. G. Brill Company, Philadelphia, Pa. Operating device for car-fare registers. No. 971,968; Oct. 4; Sp. p. 1024; Gaz. vol. 159; p. 170.

Bucknam, Ezra S., and G. B. Kohler, assignors to The J. G. Brill Company, Philadelphia, Pa. Fare-box. No. 969,597; Sept. 6; Sp. p. 962; Gaz. vol. 158; p. 152.

Bucknam, Ezra S., and G. B. Kohler, assignors to The J. G. Brill Company, Philadelphia, Pa. Fare-box. No. 970,178; Sept. 13; Sp. p. 2205; Gaz. vol. 158; p. 375.

Buckner, Augustus N., Birmingham, Ala. Transit. No. 971,523; Oct. 4; Sp. p. 25; Gaz. vol. 159; p. 7.

Buckton, William W., Westminster, London, England. Combined electric connecting plug, socket, and switch. No. 948,041; Feb. 1; Sp. p. 549; Gaz. vol. 151; p. 88.

Buckton, William W., London, England. Combined electric-connection plug and socket and switch. No. 978,841; Dec. 20; Sp. p. 3048; Gaz. vol. 161; p. 542.

Buckwalter, Tracy V., Altoona, Pa. Steering-knuckle. No. 962,491; June 28; Sp. p. 4756; Gaz. vol. 155; p. 838.

Buckwalter, Tracy V., Altoona, Pa. Battery-transfer mechanism. No. 969,154; Sept. 6; Sp. p. 7; Gaz. vol. 158; p. 4.

Bucsko, Leopold, Monaca, Pa. Shield for hollow articles in sand-blasting. No. 977,268; Nov. 29; Sp. p. 7037; Gaz. vol. 160; p. 1197.

Bucyrus Company, The. (See Ferris, Walter, assignor.)

Buda Foundry & Manufacturing Company. (See Jenkins, Merrill L., assignor.)

Buda Foundry & Manufacturing Company. (See Place, Frederick E., assignor.)

Buda Foundry & Manufacturing Company. (See Place and Jenkins, assignors.)

Budd, Edward G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Welding apparatus. No. 948,965; Feb. 8; Sp. p. 2484; Gaz. vol. 151; p. 423.

Budd, Edward G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Car-seat. No. 950,745; Mar. 1; Sp. p. 615; Gaz. vol. 152; p. 98.

Budd, Edward G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Metallic sheathing. No. 973,622; Oct. 25; Sp. p. 4640; Gaz. vol. 159; p. 807.

Budd, Edward G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Metallic door. No. 973,751; Oct. 25; Sp. p. 4901; Gaz. vol. 159; p. 852.

Budd, Horace, Philadelphia, Pa. Fire-extinguishing apparatus. No. 976,251; Nov. 22; Sp. p. 4805; Gaz. vol. 160; p. 821.

Budd, William E., Chatham, N. J. Cushion-tire for vehicle-wheels. No. 951,053; Mar. 1; Sp. p. 1195; Gaz. vol. 152; p. 196.

Budesheim, William, and J. D. Stinchcomb, Baltimore, Md. Emergency-tire for automobile-wheels, &c. No. 947,221; Jan. 25; Sp. p. 4888; Gaz. vol. 150; p. 834.

Budesheim, William, and J. D. Stinchcomb, Baltimore, Md. Sectional emergency-tire. No. 975,325; Nov. 8; Sp. p. 2811; Gaz. vol. 160; p. 454.

Budge, George A., Berkeley, Cal., assignor, by mesne assignments, to Aerial Amusement Construction Company, Phoenix, Ariz. Amusement apparatus. No. 972,750; Oct. 11; Sp. p. 2694; Gaz. vol. 159; p. 458.

Büdingen, Theodor, Constance, Germany. Movement-cure apparatus. No. 964,898; July 19; Sp. p. 4147; Gaz. vol. 156; p. 690.

Budke, George H., Nanuet, N. Y. Dump-bucket. No. 958,222; May 17; Sp. p. 3852; Gaz. vol. 154; p. 651.

Bueb, Jeanne L., Greenwich, Conn. Spool-holder. No. 966,650; Aug. 9; Sp. p. 1740; Gaz. vol. 157; p. 297.

Buehler, Philip J., Ritzville, Wash. Paper-rack. No. 959,839; May 31; Sp. p. 7378; Gaz. vol. 154; p. 1249.

Buehrle, German B. (See Lamb, Edwin, assignor.)

Buel, Albert W. (See Watson and Buel.)

Buel, Charles A., Jr., St. Louis, Mo. Sanitary cold-air food-cabinet. No. 959,709; May 31; Sp. p. 7093; Gaz. vol. 154; p. 1204.

Buell, Azel C., assignor to Sanitary Utilities Company, New York, N. Y. Pneumatic cleaner. No. 949,370; Feb. 15; Sp. p. 3343; Gaz. vol. 151; p. 585.

Buell, Daniel H., Marietta, Ohio. Label-holder for trees. No. 965,866; Aug. 2; Sp. p. 38; Gaz. vol. 157; p. 9.

Buell, Leroy A., Kalamazoo, Mich. Combined lamp and mirror. No. 975,674; Nov. 15; Sp. p. 3569; Gaz. vol. 160; p. 600.

Buell, William H., assignor to Winchester Repeating Arms Co., New Haven, Conn. Primer for small-arm ammunition. No. 962,888; June 28; Sp. p. 5582; Gaz. vol. 155; p. 976.

Buell, William H., assignor to Winchester Repeating Arms Co., New Haven, Conn. Rim-fire ammunition for small-arms. No. 966,163; Aug. 2; Sp. p. 694; Gaz. vol. 157; p. 109.

Buellesbach, Joseph, New York, N. Y. Hinge for self-closing gates. No. 960,268; June 7; Sp. p. 61; Gaz. vol. 155; p. 13.

Buer, Kristian. (See Bye and Buer.)

Buerlein, Jacob. (See Buckeye and Buerlein.)

Buermann, George, Newark, N. J. Spur. No. 969,839; Sept. 13; Sp. p. 1517; Gaz. vol. 158; p. 260.

Buettner, William A., and A. Shelburne, Terre Haute, Ind. Bearing-stud. No. 948,987; Feb. 15; Sp. p. 2540; Gaz. vol. 151; p. 457.

Buffalo Co-operative Stove Company. (See Kener, Edward, Jr., assignor.)

Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)

Buffalo Forge Company. (See Carrier, Willis H., assignor.)

Buffalo Leather Co. (See Smith, William R., assignor.)

Buffalo Pitts Company. (See Vraalstad, Edward J., assignor.)

Buffalo Sled Company. (See Orcutt, Charles D., assignor.)

Buffalo Specialty Company. (See Johnson, Marquis H., assignor.)

Buffalo Steam Roller Company. (See Todd, Marquis J., assignor.)

Buffelen, John, Tacoma, Wash. Gluing-machine. No. 962,619; June 28; Sp. p. 5038; Gaz. vol. 155; p. 881.

Buffington, Calvin A., Berkshire, N. Y. Folding chair. No. 947,673; Jan. 25; Sp. p. 5936; Gaz. vol. 150; p. 987.

Buffington, Edwin C. (See Baldwin and Buffington.)

Buffum, Edgar S., Newton, and W. W. Carter, Needham, assignors to The Newton Company, Newton, Mass. Waterproof leather-board and preparing the same. No. 965,152; July 26; Sp. p. 4656; Gaz. vol. 156; p. 806.

Buffum, Frank W. (See Mann, Miles H., assignor.)

Buffum, Frank W. (See Mann and Oungst, assignors.)

Buffum, Frederick D., Pittsburg, Pa., assignor of one-fourth to E. O'Toole and one-fourth to H. Eavenson. Coke drawer and loader. No. 966,425; Aug. 9; Sp. p. 1206; Gaz. vol. 157; p. 219.

Buffum, Frederick D., H. N. Eavenson, and E. O'Toole, Gary, W. Va., assignors to United States Coal & Coke Company, Pittsburg, Pa., and Gary, W. Va. Coke-oven door. No. 962,123; June 21; Sp. p. 3956; Gaz. vol. 155; p. 688.

Buffum Tool Company. (See Mann, Miles H., assignor.)

Bugg, Owen T., Jr., New York, N. Y., assignor, by mesne assignments, to H. P. Barr, East Orange, N. J. Machine for mixing and kneading dough or analogous material. No. 949,618; Feb. 15; Sp. p. 3837; Gaz. vol. 151; p. 669.

Bugnon, Achille, Paris, France. Water-tube steam-generator. No. 977,927; Dec. 6; Sp. p. 1098; Gaz. vol. 161; p. 175.

Bugnon, Leon G., Seattle, Wash. Non-refillable bottle. No. 971,488; Sept. 27; Sp. p. 4933; Gaz. vol. 158; p. 864.

Buhl Stamping Company. (See Forster, Thomas W., assignor.)

Buhoup, Harry C., Chicago, Ill. Car-truck. No. 977,707; Dec. 6; Sp. p. 652; Gaz. vol. 161; p. 99.

Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburg, Pa. Draft-gear. No. 950,472; Mar. 1; Sp. p. 8; Gaz. vol. 152; p. 4.

Buis, William A., Boise, assignor of one-third to M. Coffin, Twin Falls, Idaho. Apparatus for measuring flowing water. No. 951,176; Mar. 8; Sp. p. 1443; Gaz. vol. 152; p. 261.

Buissono, David, Blue Island, Ill. Guard for water-gages. No. 948,412; Feb. 8; Sp. p. 1335; Gaz. vol. 151; p. 238.

Bukey, Lee E., and R. Davis, Columbus, Ohio. Curtain holder and releaser. No. 955,051; Apr. 12; Sp. p. 2944; Gaz. vol. 153; p. 499.

Bukolt, John J., Stevens Point, Wis. Milking-machine. No. 958,954; May 24; Sp. p. 5529; Gaz. vol. 154; p. 928.

Bulasky, Louis, New York, N. Y. Work guide or gage for sewing-machines. No. 970,179; Sept. 13; Sp. p. 2209; Gaz. vol. 158; p. 380.

Bules, Edward G., San Diego, Cal. Blower for rocking-chairs. No. 957,739; May 10; Sp. p. 2617; Gaz. vol. 154; p. 453.

Bulger, John K., assignor to The Bulger Lock-Coupling Company, San Francisco, Cal. Lock-joint coupling. No. 958,086; May 17; Sp. p. 3583; Gaz. vol. 154; p. 604.

Bulger Lock-Coupling Company, The. (See Bulger, John K., assignor.)

Bull, Frederick W., Norfolk, Va. Propeller-blade machine. No. 963,858; July 12; Sp. p. 1872; Gaz. vol. 156; p. 306.

Bull, Reece S. (See Strance, Bull, and Norris.)

Bull, William B., assignor to Polar Ice Machine Company, Chicago, Ill. Apparatus for making artificial ice. No. 948,131; Feb. 1; Sp. p. 722; Gaz. vol. 151; p. 119.

Bullard, Albert M., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Alarm and current-saving apparatus for automatic exchanges. No. 949,881; Feb. 22; Sp. p. 4426; Gaz. vol. 151; p. 792.

Bullard, Albert M., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Service-meter circuit for telephone-exchange systems. No. 966,733; Aug. 9; Sp. p. 1923; Gaz. vol. 157; p. 325.

Bullard, Edwin W. (See Bullard, James H. and E. W.)

Bullard, Herbert A., Mill Valley, Cal. Coin-controlled mechanism. No. 964,848; July 19; Sp. p. 4040; Gaz. vol. 156; p. 673.

Bullard, James H., Springfield, Mass. Speedometer. No. 947,788; Feb. 1; Sp. p. 22; Gaz. vol. 151; p. 6.

Bullard, James H. and E. W., Springfield, Mass. Speedometer. No. 967,168; Aug. 16; Sp. p. 2882; Gaz. vol. 157; p. 499.

Bullard, Walter, Chico, Cal. Cleaning attachment for hand-rakes. No. 948,497; Feb. 8; Sp. p. 1515; Gaz. vol. 151; p. 268.

Alphabetical list of patentees—Continued.

Bullard, Walter S., Middletown, assignor of one-fourth to J. W. See, Hamilton, Ohio. Water-heater. No. 951,904; Mar. 15; Sp. p. 2948; Gaz. vol. 152; p. 534.
Bulles, George A., Aurora, Ill. Neck-yoke. No. 965,153; July 26; Sp. p. 4658; Gaz. vol. 156; p. 806.
Bulley, Albert, assignor of two-thirds to J. Blake and W. Layman, Mellen, Wis. Trace-coupling. No. 979,743; Dec. 27; Sp. p. 5026; Gaz. vol. 161; p. 878.
Bulley, George W., New York, N. Y. Stoking apparatus. No. 956,757; May 3; Sp. p. 555; Gaz. vol. 154; p. 88.
Bulley, George W., New York, N. Y. Energy storing and using system. No. 958,853; May 24; Sp. p. 5310; Gaz. vol. 154; p. 894.
Bulley, Louis T., Waterbury, Conn. Shade-roller. (Reissue.) No. 13,103; Apr. 19; Sp. p. 4643; Gaz. vol. 153; p. 801.
Bulley, Reginald H., assignor to Halcomb Steel Company, Syracuse, N. Y. Purifying steel. No. 955,378; Apr. 19; Sp. p. 3633; Gaz. vol. 153; p. 640.
Bullis, Roy H., Winnebago, Minn. Device for stretching furs or skins. No. 971,969; Oct. 4; Sp. p. 1026; Gaz. vol. 159; p. 171.
Bullis, W. S. (See Dearing, Joseph W., assignor.)
Bulloch, Alva B., Irondale, assignor of twenty-four and one-half one-hundredths to T. J. Allen, Jr., Woodlawn, and twenty-four and one-half one-hundredths to J. L. Parker, Birmingham, Ala. Car-door. No. 955,755; Apr. 19; Sp. p. 4459; Gaz. vol. 153; p. 770.
Bullock, Charles A. H. (See Daniel and Bullock.)
Bullock, Edwin P. (See Cook and Bullock.)
Bullock Electric Manufacturing Company *et al.* (See Behrend, Bernard A., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Brown, Arthur J., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Cheney, Herbert W., assignor.)
Bullock Electric Manufacturing Company, The. (See Knight, Earle R., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Kwis, Arthur F., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Mattman, Emil, assignor.)
Bullock Electric Manufacturing Company, The. (See Mug, Edward T., assignor.)
Bullock Electric Manufacturing Company, The. (See Nichols, Louis C., assignor.)
Bullock Electric Manufacturing Company, The. (See Pomeroy, William D., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Powell, William H., assignor.)
Bullock Electric Manufacturing Company, The. (See Van Valkenburg, Hermon, assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Van Valkenburg, Hermon L., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Williamson, Robert B., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Wouters, Alfred H., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Wright, Edwin C., assignor.)
Bullock, Fred J. (See Clark, Bullock, and Watkins.)
Bullock, H. E. & J. E. (See Scherling, Rudolph C., assignor.)
Bullock, Henry E., *et al.* (See Houghton, Orley C., assignor.)
Bullock, James E., *et al.* (See Houghton, Orley C., assignor.)
Bullock, John H., Logan, Utah. Washing-machine. No. 951,629; Mar. 8; Sp. p. 2367; Gaz. vol. 152; p. 410.
Bullock, Thomas J., Freedom, Ky. Whiffletree-coupling. No. 979,059; Dec. 20; Sp. p. 3541; Gaz. vol. 161; p. 619.
Bullock, William M., Grand Rapids, Mich. Advertising-sign. No. 973,623; Oct. 25; Sp. p. 4643; Gaz. vol. 159; p. 807.
Bulman, Elvah O., Grand Rapids, Mich. Egg-carrier. No. 958,087; May 17; Sp. p. 3585; Gaz. vol. 154; p. 604.
Bulmer, George D., Duquesne, Pa. Cuspidor. No. 963,511; July 5; Sp. p. 1096; Gaz. vol. 156; p. 167.
Bumiller, Eugene J., Chicago, Ill. Means for lighting Christmas trees. No. 966,520; Aug. 9; Sp. p. 1476; Gaz. vol. 157; p. 253.
Bumiller, Eugene J., Chicago, Ill. Lock-strike. No. 975,675; Nov. 15; Sp. p. 3571; Gaz. vol. 160; p. 601.
Bumpus, Elmer E., Seattle, Wash. Separable hinge for screens. No. 961,751; June 21; Sp. p. 3118; Gaz. vol. 155; p. 562.
Bumpus, Hermon C. (See Beers and Bumpus.)
Bumpus, Hermon C., New Rochelle, N. Y. Panel construction. No. 952,506; Mar. 22; Sp. p. 4132; Gaz. vol. 152; p. 761.
Bumstead, Ralph W., Brookline, Mass. Playing-cards. No. 979,642; Dec. 27; Sp. p. 4807; Gaz. vol. 161; p. 843.
Bunde, Andrew O. (See Mortenson, Otto J., assignor.)
Bundy, Charles L., Quickville, Kans. Rail-joint. No. 954,419; Apr. 12; Sp. p. 1531; Gaz. vol. 153; p. 281.
Bundy, Clifton L., and A. H. Manwaring, assignors to Philadelphia Electrical & Manufacturing Co., Philadelphia, Pa. Street-lamp socket. No. 960,807; June 7; Sp. p. 1154; Gaz. vol. 155; p. 192.
Bundy, Cyrus L., *et al.* (See Acker, Julius J., assignor.)
Bundy, Cyrus L., Kingsland, N. J., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 974,466; Nov. 1; Sp. p. 901; Gaz. vol. 160; p. 132.
Bundy, Cyrus L., Kingsland, N. J., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction draft-rigging for railway-cars. No. 974,467; Nov. 1; Sp. p. 903; Gaz. vol. 160; p. 133.
Bundy, Francis L. (See Herndon, William T., assignor.)
Bundy, Henry C., Watertown, N. Y., assignor to M. H. Hart, Akron, Ohio. Door opening and closing device. No. 975,507; Nov. 15; Sp. p. 3186; Gaz. vol. 160; p. 543.
Bundy, William, Valparaiso, Ind. Geometrical miter-square. No. 963,274; July 5; Sp. p. 630; Gaz. vol. 156; p. 88,
Bunker, Carey E., Oregon, Mo. Electric time-switch. No. 962,307; June 21; Sp. p. 4339; Gaz. vol. 155; p. 749.
Bunker, E. W. (See Hiner, Frank E., assignor.)
Bunker, John W., assignor to Bunker Truss Company, New York, N. Y. Hernial truss. No. 948,305; Feb. 8; Sp. p. 1091; Gaz. vol. 151; p. 201.
Bunker, John W., assignor to Bunker Truss Company, New York, N. Y. Hernial truss. No. 948,306; Feb. 8; Sp. p. 1095; Gaz. vol. 151; p. 202.
Bunker, John W., assignor to Bunker Truss Company, New York, N. Y. Hernial truss. No. 948,307; Feb. 8; Sp. p. 1100; Gaz. vol. 151; p. 202.
Bunker Truss Company. (See Bunker, John W., assignor.)
Bunn, Oron L., Peoria, Ill. Self-cleaning trocar. No. 958,854; May 24; Sp. p. 5313; Gaz. vol. 154; p. 895.
Bunnell, Horry C., Westport, N. Y. Window-ventilator. No. 961,403; June 14; Sp. p. 2378; Gaz. vol. 155; p. 421.
Bunnell, Marcellus J., Taylor, Tex. Cotton-chopper. No. 950,836; Mar. 1; Sp. p. 804; Gaz. vol. 152; p. 128.
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Drainage-excavator. No. 950,631; Mar. 1; Sp. p. 357; Gaz. vol. 152; p. 58.
Bunnell, Walter A. (See Miller and Bunnell.)
Bunner, Charles E., Grafton, W. Va. Natural-gas burner. No. 972,056; Oct. 4; Sp. p. 1188; Gaz. vol. 159; p. 200.
Bunting, John J., Grandview, Wash. Combined level and gradient instrument. No. 958,088; May 17; Sp. p. 3586; Gaz. vol. 154; p. 604.
Bunting, John J., Grandview, Wash. Whiffletree. No. 958,089; May 17; Sp. p. 3588; Gaz. vol. 154; p. 605.
Bunyetin, Miladin, Bakersfield, Cal. Traction-engine. No. 949,350; Feb. 15; Sp. p. 3302; Gaz. vol. 151; p. 579.
Buob, Frederick, Cincinnati, Ohio. Joint-tie for cushion-tires. No. 956,625; May 3; Sp. p. 255; Gaz. vol. 154; p. 43.
Buoker, Daniel A., Peabody, Mass. Annunciator. No. 946,692; Jan. 18; Sp. p. 3753; Gaz. vol. 150; p. 628.
Buquo, George C., Fletcher, N. C. Speed-indicator. No. 972,158; Oct. 11; Sp. p. 1411; Gaz. vol. 159; p. 253.
Burbank, Charles E., assignor to M. L. Burbank, Philadelphia, Pa. Game apparatus. No. 959,710; May 31; Sp. p. 7094; Gaz. vol. 154; p. 1204.
Burbank, Charles H., Millbury, Mass. Saw-guard. No. 950,994; Mar. 1; Sp. p. 1101; Gaz. vol. 152; p. 177.
Burbank, Louis S., assignor to Draper Company, Hopedale, Mass. Means for retaining and delivering travelers for spinning-rings. No. 945,907; Jan. 11; Sp. p. 2012; Gaz. vol. 150; p. 334.
Burbank, Louis S., assignor to Draper Company, Hopedale, Mass. Loom harness mechanism. No. 972,810; Oct. 18; Sp. p. 2816; Gaz. vol. 159; p. 503.
Burbank, Mary L. (See Burbank, Charles E., assignor.)
Burbee, Frank S., Rock Glen, N. Y. Whiffletree. No. 946,956; Jan. 18; Sp. p. 4365; Gaz. vol. 150; p. 717.
Burby, John M., Astoria, N. Y., assignor of one-half to F. Muser, Chicago, Ill. Steam-trap. No. 978,842; Dec. 20; Sp. p. 3050; Gaz. vol. 161; p. 543.
Burch, Allen, Fulton, Miss. Churn. No. 950,592; Mar. 1; Sp. p. 267; Gaz. vol. 152; p. 44.
Burch, Charles E. S. and F. R., Seattle, Wash. Flying-machine. No. 968,918; Aug. 30; Sp. p. 6571; Gaz. vol. 157; p. 1144.
Burch, Charles J., Lena, Ind., assignor of one-half to G. Hitesman, Mattoon, Ill. Metallic railway-tie and fastener. No. 980,058; Dec. 27; Sp. p. 5712; Gaz. vol. 161; p. 982.
Burch, Franklin J., Pueblo, Colo. Fruit-picking bag. No. 967,881; Aug. 23; Sp. p. 4327; Gaz. vol. 157; p. 763.
Burch, Frederick R. (See Burch, Charles E. S. and F. R.)
Burch, Frederick W., Pueblo, Colo. Fruit-picking bag. No. 960,809; June 7; Sp. p. 1158; Gaz. vol. 155; p. 193.
Burch, Henry, La Grange, Tenn. Clamp for boxes. No. 949,619; Feb. 15; Sp. p. 3839; Gaz. vol. 151; p. 669.
Burch, John G., and W. R. Taylor, Chicago, Ill. Oil-can. No. 959,711; May 31; Sp. p. 7096; Gaz. vol. 154; p. 1205.
Burch, Marius C., New Decatur, Ala. Cotton chopper or cultivator. No. 955,756; Apr. 19; Sp. p. 4462; Gaz. vol. 153; p. 770.
Burch, Marsden L., Chicago, Ill., assignor to A. Jackman, Lewistown, Mont. Shepherd's crook. No. 956,932; May 3; Sp. p. 934; Gaz. vol. 154; p. 149.
Burchardi, Bernard T. (See Wahlstrom, Verner J., assignor.)

Alphabetical list of patentees—Continued.

Burchartz, Ferdinand, New York, N. Y. Block for building construction. No. 978,002; Dec. 6; Sp. p. 1251; Gaz. vol. 161; p. 200.

Burchartz, Ferdinand, New York, N. Y. Apparatus for making hollow building-blocks. No. 978,003; Dec. 6; Sp. p. 1253; Gaz. vol. 161; p. 201.

Burcik, Emil, *et al.* (See Chartener, Victor, assignor.)

Burdett, C. M., *et al.* (See Poe, James C., assignor.)

Burdett-Rowntree Manufacturing Company, The. (See Forman, Paris R., assignor.)

Burdett-Rowntree Manufacturing Company. (See Rowntree and Spencer, assignors.)

Burdette, Robert T., Los Angeles, Cal. Hand-brake for railway-cars. No. 962,693; June 28; Sp. p. 5189; Gaz. vol. 155; p. 906.

Burdge, Franklin P., assignor of one-third to A. E. Hoppes, Muncie, Ind. Cultivating implement. No. 956,477; Apr. 26; Sp. p. 6053; Gaz. vol. 153; p. 1049.

Burdick, Charles L., London, England. Stencil-machine. No. 954,926; Apr. 12; Sp. p. 2706; Gaz. vol. 153; p. 457.

Burdick, Charles L., London, England. Sheet or card lifter. No. 954,927; Apr. 12; Sp. p. 2709; Gaz. vol. 153; p. 458.

Burdick, Charles L., London, England. Stencil-cleaning device. No. 978,984; Dec. 20; Sp. p. 3381; Gaz. vol. 161; p. 594.

Burdick, James M. (See Bodmer and Burdick.)

Burdick, Jesse R., R. T. Fulton, Boulder, Colo., and B. F. Williams, Lincoln, Nebr., assignors to the A-Theuca-Ine Medical & Manufacturing Company, Boulder, Colo. Syringe. No. 978,985; Dec. 20; Sp. p. 3382; Gaz. vol. 161; p. 595.

Burdick, Paul C., and R. Jessop, Ogden, Utah. Portable power-saw. No. 962,003; June 21; Sp. p. 3668; Gaz. vol. 155; p. 645.

Burdick & Son. (See King, Madison M., assignor.)

Burdick, W. A., *et al.* (See Ivers, John W., assignor.)

Bureau, Octave, Waterville, Me. Log-marker. No. 970,012; Sept. 13; Sp. p. 1884; Gaz. vol. 158; p. 320.

Burge, James, Lincoln, Nebr. Ringing-machine. No. 973,340; Oct. 18; Sp. p. 4031; Gaz. vol. 159; p. 690.

Burge, William C., Greensboro, N. C. Lock. No. 965,279; July 26; Sp. p. 4910; Gaz. vol. 156; p. 847.

Burgener, Christopher C., Galion, Ohio. Water-heater. No. 952,874; Mar. 22; Sp. p. 4939; Gaz. vol. 152; p. 889.

Burger, Albert, and J. Gominsky, Watkins, Minn. Grain-harvester. No. 955,249; Apr. 19; Sp. p. 3355; Gaz. vol. 153; p. 598.

Burger, Clarence L., New York, N. Y. Marine vessel. No. 954,713; Apr. 12; Sp. p. 2187; Gaz. vol. 153; p. 382.

Bürger, Godfried L. H., Boston, Mass. Hammock for douche and similar baths. No. 975,016; Nov. 8; Sp. p. 2135; Gaz. vol. 160; p. 348.

Burger, John P. (See Leilich and Burger.)

Burger, Joseph, Pittsburg, Kans. Rake. No. 946,653; Jan. 18; Sp. p. 3671; Gaz. vol. 150; p. 615.

Burger, Pincus, New York, N. Y. Fixture. No. 978,556; Dec. 13; Sp. p. 2455; Gaz. vol. 161; p. 423.

Burger, Pincus, and B. Sakren, New York, N. Y. Soldering-iron heater. No. 980,059; Dec. 27; Sp. p. 5714; Gaz. vol. 161; p. 983.

Burger, Reinhold, and A. Aschenbrenner, Berlin, Germany, assignors to American Thermos Bottle Company, New York, N. Y. Field or hunting flask. (Reissue.) No. 13,093; Mar. 15; Sp. p. 3978; Gaz. vol. 152; p. 712.

Burgert, Joseph, and R. Franke, Cleveland, Ohio. Nut-lock. No. 974,468; Nov. 1; Sp. p. 904; Gaz. vol. 160; p. 133.

Burgert, Thomas B., Galion, Ohio. Cut-off for down-spouts or conductors. No. 949,972; Feb. 22; Sp. p. 4618; Gaz. vol. 151; p. 824.

Burgess, John G., San Diego, Cal. Vegetable hair-tonic. No. 961,840; June 21; Sp. p. 3320; Gaz. vol. 155; p. 591.

Burgess, Thomas J., Kansas City, Kans. Washing-machine. No. 951,233; Mar. 8; Sp. p. 1553; Gaz. vol. 152; p. 279.

Burgess, Yorke. (See Conniff and Burgess.)

Burgon, Charles S., Wellington, New Zealand. Ship's course-indicator. No. 954,777; Apr. 12; Sp. p. 2347; Gaz. vol. 153; p. 405.

Burgunder, Richard, McKees Rocks, assignor of one-tenth to C. Byerly, Pittsburg, Pa. Rail-joint. No. 962,813; June 28; Sp. p. 5434; Gaz. vol. 155; p. 949.

Burhorn, Edwin, Hoboken, N. J. Cooling-tower. No. 961,100; June 14; Sp. p. 1741; Gaz. vol. 155; p. 316.

Burhorn, Edwin, Hoboken, N. J. Cooling-tower. No. 973,163; Oct. 18; Sp. p. 3660; Gaz. vol. 159; p. 628.

Burhorn, Edwin, Hoboken, N. J. Cooling-tower. No 978,986; Dec. 20; Sp. p. 3384; Gaz. vol. 161; p. 595.

Burk, Charles H., Chicago, Ill. Shoe for sad-irons. No. 969,335; Sept. 6; Sp. p. 388; Gaz. vol. 158; p. 63.

Burk, Frank, McHenry, N. D. Shock-loader. No. 958,090; May 17; Sp. p. 3590; Gaz. vol. 154; p. 605.

Bürk, Richard, Schwenningen, Germany. Displacing device for calculating-machines. No. 947,526; Jan. 25; Sp. p. 5638; Gaz. vol. 150; p. 937.

Burkart, Max F., Jr., San Francisco, Cal. Tree-holder. No. 960,497; June 7; Sp. p. 517; Gaz. vol. 155; p. 86.

Burke, Alfred, Leominster, Mass. Barrette. No. 956,793; May 3; Sp. p. 628; Gaz. vol. 154; p. 100.

Burke, Alfred, Leominster, Mass. Double-tongue barrette. No. 959,712; May 31; Sp. p. 7096; Gaz. vol. 154; p. 1205.

Burke, Alfred, Leominster, Mass. Hair-pin. No. 979,422; Dec. 27; Sp. p. 4323; Gaz. vol. 161; p. 767.

Burke, Alfred, Leominster, Mass. Buckle. No. 979,744; Dec. 27; Sp. p. 5027; Gaz. vol. 161; p. 878.

Burke, Anslem L., Galesburg, Ill., assignor to Adams & Johnson Co. Adjustable horse-collar. No. 960,810; June 7; Sp. p. 1159; Gaz. vol. 155; p. 193.

Burke, Charles G., New York, N. Y., assignor of one-half to J. Q. A. Whittemore, Newton, Mass. Telegraphy. No. 971,170; Sept. 27; Sp. p. 4329; Gaz. vol. 158; p. 759.

Burke, Charles P. (See Gstalder, Paul A., assignor.)

Burke, Charles W., and J. D. Perkins; said Perkins assignor to W. Taylor, Atlanta, Ga. Switch. No. 965,685; July 26; Sp. p. 5819; Gaz. vol. 156; p. 989.

Burke, Constantine J., and A. A. Shippy, Waterloo, Iowa. Hoisting device. No. 946,913; Jan. 18; Sp. p. 4289; Gaz. vol. 150; p. 704.

Burke, Cornelius, and W. E. Harrington, Little Rock, Ark. Safety attachment for switch-stands. No. 950,274; Feb. 22; Sp. p. 5301; Gaz. vol. 151; p. 929.

Burke, Edward J., Brooklyn, N. Y. Game apparatus. No. 957,740; May 10; Sp. p. 2619; Gaz. vol. 154; p. 453.

Burke, Edward J., New York, N. Y., assignor of one-half to J. Q. A. Whittemore, Newton, Mass. Signaling means. No. 946,957; Jan. 18; Sp. p. 4367; Gaz. vol. 150; p. 718.

Burke Electric Company. (See Bard, James F., assignor.)

Burke Electric Company. (See Burke, James, assignor.)

Burke Electric Company. (See Faure, Elie F. G. H., assignor.)

Burke, George P. and P. D., Roswell, S. D. Screen attachment. No. 954,420; Apr. 12; Sp. p. 1532; Gaz. vol. 153; p. 281.

Burke, George P. and P. D., Roswell, S. D. Cut-off device for feed-hoppers. No. 954,850; Apr. 12; Sp. p. 2531; Gaz. vol. 153; p. 432.

Burke & James. (See James, David, assignor.)

Burke, James, Erie, Pa., assignor to Burke Electric Company. Forming coils for armature-windings. No. 979,375; Dec. 20; Sp. p. 4224; Gaz. vol. 161; p. 728.

Burke, John, assignor of one-half to E. Mandelbaum, Cleveland, Ohio. Horn. No. 960,811; June 7; Sp. p. 1161; Gaz. vol. 155; p. 193.

Burke, Joseph H., Portland, Me. Relishing-machine. No. 967,495; Aug. 16; Sp. p. 3555; Gaz. vol. 157; p. 611.

Burke, Joseph H., Portland, Me. Cutter-head. No. 974,234; Nov. 1; Sp. p. 342; Gaz. vol. 160; p. 49.

Burke, Joseph R. (See Ostervold, John, assignor.)

Burke, Lawrence A. (See Hoyt and Burke.)

Burke, Patrick F., New York, N. Y. Adjustable hoof-pad. No. 964,747; July 19; Sp. p. 3834; Gaz. vol. 156; p. 638.

Burke, Peter D. (See Burke, George P. and P. D.)

Burke, Richard H., Lexington, Mass. Ash-sifter. No. 971,825; Oct. 4; Sp. p. 652; Gaz. vol. 159; p. 114.

Burke, Stephen E., Hamilton, Ind. Button-remover. No. 974,118; Nov. 1; Sp. p. 22; Gaz. vol. 160; p. 7.

Burke, Thomas J., New Orleans, La. Advertising device. No. 970,301; Sept. 13; Sp.p. 2480; Gaz. vol. 158; p. 418.

Burke, Wilbur B., Cleveland, Ohio. Valve. No. 972,677; Oct. 11; Sp. p. 2536; Gaz. vol. 159; p. 432.

Burke, William C., Scalp Level, Pa. Carpet-stretcher. No. 961,679; June 14; Sp. p. 2970; Gaz. vol. 155; p. 514.

Burkett, Harry T. (See Reagan, Edward S., assignor.)

Burkhalter, William T. (See Hancock, George H., assignor.)

Burkhardt, Arthur, Glashütte, Germany, assignor, by mesne assignments, to Actien-Gesellschaft vorm. Seidel & Naumann, Dresden, Germany. Calculating-machine. No. 951,982; Mar. 15; Sp. p. 3098; Gaz. vol. 152; p. 558.

Burkhardt, August G., Dusseldorf, Germany. Water-tube steam-generator. No. 967,718; Aug. 16; Sp. p. 4000; Gaz. vol. 157; p. 685.

Burkhardt, Franklin P., Springfield, Ohio, assignor, by mesne assignments, to The Anderson Tool Company, Anderson, Ind. Slicing-machine. No. 945,218; Jan. 4; Sp. p. 436; Gaz. vol. 150; p. 73.

Burkhardt, Franklin P., Springfield, Ohio, assignor, by mesne assignments, to The Anderson Tool Company, Anderson, Ind. Slicing-machine. No. 970,680; Sept. 20; Sp. p. 3299; Gaz. vol. 158; p. 568.

Burkhardt, George J., Burlingame, Cal. Toilet. No. 971,826; Oct. 4; Sp. p. 654; Gaz. vol. 159; p. 115.

Burkhart, Adam P., Buffalo, N. Y. Window-sash. No. 979,423; Dec. 27; Sp. p. 4324; Gaz. vol. 161; p. 767.

Burkhart, Jacob, Aberdeen, Pa. Nut-lock. No. 974,641; Nov. 1; Sp. p. 1284; Gaz. vol. 160; p. 197.

Burkheiser, Karl, Aix-la-Chapelle, Germany. Obtaining ammonium salts from gas. No. 973,164; Oct. 18; Sp. p. 3661; Gaz. vol. 159; p. 628.

Burkholder, John F. and W. P., Harrisonburg, Va. Washing-machine. No. 959,992; May 31; Sp. p. 7730; Gaz. vol. 154; p. 1302.

Burkholder, John H., assignor to The Elite Manufacturing Company, Ashland, Ohio. Lifting-jack. No. 956,478; Apr. 26; Sp. p. 6055; Gaz. vol. 153; p. 1049.

Burkholder, John H., assignor to The Elite Manufacturing Company, Ashland, Ohio. Lifting-jack. No. 963,206; July 5; Sp. p. 468; Gaz. vol. 156; p. 64.

Alphabetical list of patentees—Continued.

Burkholder, William P. (See Burkholder, John F. and W. P.)
Burleigh, James, Kalamazoo, Mich. Rotary engine. No. 963,207; July 5; Sp. p. 470; Gaz. vol. 156; p. 64.
Burleigh, John W., Taunton, assignor to Zone Dynamo & Motor Patents Company Limited, London, England. Dynamo-electric machine. No. 946,105; Jan. 11; Sp. p. 2412; Gaz. vol. 150; p. 401.
Burleigh, William J., Rome, N. Y. Non-refillable bottle. No. 958,588; May 17; Sp. p. 4732; Gaz. vol. 154; p. 777.
Burley, Emery. (See Trogner, George W., assignor.)
Burley, Millis B., Philadelphia, Pa. Locking device for milk-can covers. No. 973,624; Oct. 25; Sp. p. 4644; Gaz. vol. 159; p. 808.
Burlingame, Clifford R., St. Louis, Mich. Pipe-machine. No. 948,104; Feb. 1; Sp. p. 678; Gaz. vol. 151; p. 110.
Burlingame, Clifford R., Coe, Mich. Casing for concrete tile. No. 962,074; June 21; Sp. p. 3828; Gaz. vol. 155; p. 670.
Burlingame, E. E. (See Elten, Alfred P., assignor.)
Burlingame, Elmer A., San Francisco, Cal., assignor to Burlingame Telegraphing Typewriter Company. Electro-magnet. No. 946,487; Jan. 11; Sp. p. 3330; Gaz. vol. 150; p. 535.
Burlingame, Elmer E., *et al.* (See Russell, Edward, assignor.)
Burlingame, Raymond G., *et al.* (See Bayly, Harry E., assignor.)
Burlingame Telegraphing Typewriter Company. (See Burlingame, Elmer A., assignor.)
Burmeister, John. (See Shattuck, William P., assignor.)
Burnam, William L., Kansas City, Mo. Locking device for differential gearings. No. 964,387; July 12; Sp. p. 2929; Gaz. vol. 156; p. 483.
Burnap, James S. (See Hendricks and Burnap.)
Burnett, Archibald, Phoenix, British Columbia, Canada. Gas-engine. No. 960,498; June 7; Sp. p. 518; Gaz. vol. 155; p. 86.
Burnett, Arthur D., New York, assignor to Pierce, Butler & Pierce Manufacturing Company, Syracuse, N. Y. Calculating device. No. 948,966; Feb. 8; Sp. p. 2487; Gaz. vol. 151; p. 423.
Burnett, Charles E., Walworth, N. Y. Caster. No. 962,308; June 21; Sp. p. 4343; Gaz. vol. 155; p. 750.
Burnett, John W., assignor of one-half to W. K. Mason, Cambridge, Mass. Cigar-lighter. No. 972,811; Oct. 18; Sp. p. 2818; Gaz. vol. 159; p. 504.
Burnett, Otis O., Indianapolis, Ind. Cement shingle. No. 954,019; Apr. 5; Sp. p. 664; Gaz. vol. 153; p. 118.
Burnett, William H., Hartford, Conn. Lamp-burner. No. 975,929; Nov. 15; Sp. p. 4069; Gaz. vol. 160; p. 686.
Burnett, William S., assignor to Morse Code Signal Co., Milwaukee, Wis. Electromagnetic device. No. 970,180; Sept. 13; Sp. p. 2211; Gaz. vol. 158; p. 380.
Burney, Edward M., Chicago, Ill. Jack-screw. No. 979,424; Dec. 27; Sp. p. 4326; Gaz. vol. 161; p. 767.
Burney, John L., Carlisle, Ark. Shoe-broom. No. 977,432; Dec. 6; Sp. p. 12; Gaz. vol. 161; p. 5.
Burney, Willis A., Jr. (See Conner, Herschel M., assignor.)
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Shock-absorbing and cord-adjusting device for incandescent electric lamps. No. 960,269; June 7; Sp. p. 62; Gaz. vol. 155; p. 13.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Time-limit device for electric switches. No. 979,256; Dec. 20; Sp. p. 4011; Gaz. vol. 161; p. 690.
Burnham, Rol D. (See Engert and Burnham.)
Burnham, Williams & Company. (See Vauclain, Andrew C., assignor.)
Burnhart, George W., Ward, Colo. Ore-concentrator. No. 966,521; Aug. 9; Sp. p. 1478; Gaz. vol. 157; p. 254.
Burns, Albert J., assignor of one-half to F. D. H. Cobb and one-half to Cobb Preserving Company, Rochester, N. Y. Fruit-coring machine. No. 972,812; Oct. 18; Sp. p. 2821; Gaz. vol. 159; p. 504.
Burns, Albert L., Mill Creek, Okla. Vehicle-step. No. 956,933; May 3; Sp. p. 935; Gaz. vol. 154; p. 149.
Burns, Anthony J., Hegewisch, assignor of one-half to E. Shuler, Chicago, Ill. Motor-starter. No. 957,741; May 10; Sp. p. 2624; Gaz. vol. 154; p. 454.
Burns & Bassick Co., The. (See Bassick and Mosman, assignors.)
Burns, C. P. (See Goodrum, Charles L., assignor.)
Burns, Cornelius. (See Conner and Burns.)
Burns, Cornelius, Burnside, Pa. Jam-nut. No. 952,507; Mar. 22; Sp. p. 4135; Gaz. vol. 152; p. 761.
Burns, David R., Philadelphia, Pa. Pipe-joint. No. 964,208; July 12; Sp. p. 2569; Gaz. vol. 156; p. 423.
Burns, E. S. (See White, Robert, assignor.)
Burns, Eugene E., Hartley, Iowa. Tire-grip. No. 953,512; Mar. 29; Sp. p. 6318; Gaz. vol. 152; p. 1132.
Burns, Frank A., Anaconda, Mont. Reverberatory furnace. No. 960,499; June 7; Sp. p. 521; Gaz. vol. 155; p. 87.
Burns, George B. (See Burns, John W. and G. B.)
Burns, Henry C., Marshall, Mich. Water-gage. No. 946,106; Jan. 11; Sp. p. 2413; Gaz. vol. 150; p. 401.
Burns, James A., assignor of fifty-one one-hundredths to G. D. Horning, Washington, D. C. Mechanical starting device. No. 979,257; Dec. 20; Sp. p. 4015; Gaz. vol. 161; p. 690.
Burns, James A., Homestead, and J. W. Swoger, Pittsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Coil-bending machinery. No. 959,452; May 31; Sp. p. 6543; Gaz. vol. 154; p. 1118.
Burns, James J., assignor to W. H. Leland & Co., Worcester, Mass. Electrical connector. No. 975,118; Nov. 8; Sp. p. 2356; Gaz. vol. 160; p. 384.
Burns, John. (See Gibson and Burns.)
Burns, John E., Minneapolis, Minn. Flooring-tool. No. 977,708; Dec. 6; Sp. p. 654; Gaz. vol. 161; p. 100.
Burns, John W. and G. B., New Westminster, British Columbia, Canada. Separating-plate for board-cutting saws. No. 955,379; Apr. 19; Sp. p. 3635; Gaz. vol. 153; p. 641.
Burns, Luke T., Waterbury, Conn. Siphon-valve. No. 958,589; May 17; Sp. p. 4733; Gaz. vol. 154; p. 778.
Burns, Matthew F., Derby, assignor to The Robert N. Bassett Company, Shelton, Conn. Garment-supporter. No. 952,601; Mar. 22; Sp. p. 4357; Gaz. vol. 152; p. 795.
Burns, Matthew F., Derby, assignor to The Robert N. Bassett Company, Shelton, Conn. Button-clasp. No. 953,120; Mar. 29; Sp. p. 5471; Gaz. vol. 152; p. 999.
Burns, Newton H., Rossburg, Ohio. Currycomb attachment. No. 955,579; Apr. 19; Sp. p. 4041; Gaz. vol. 153; p. 709.
Burns, Peter C., Chicago, Ill. Telephone bell or ringer. No. 954,167; Apr. 5; Sp. p. 1001; Gaz. vol. 153; p. 169.
Burns, Peter E., assignor to Dey Time Register Company, Syracuse, N. Y. Synchronizing attachment for clocks. No. 954,714; Apr. 12; Sp. p. 2192; Gaz. vol. 153; p. 382.
Burns, Thomas P. (See Stuart and Burns.)
Burns, Walter A., St. Thomas, Ontario, Canada. Dentist's bridgework. No. 952,229; Mar. 15; Sp. p. 3565; Gaz. vol. 152; p. 641.
Burns, Walter G., Fort Wayne, Ind. Puff-box. No. 978,843; Dec. 20; Sp. p. 3052; Gaz. vol. 161; p. 543.
Burns, William C., Upper Sandusky, Ohio. Backwater-trap. No. 946,894; Jan. 18; Sp. p. 4241; Gaz. vol. 150; p. 698.
Burpee, Moses, Houlton, Me. Guard-rail clamp. No. 975,395; Nov. 15; Sp. p. 2963; Gaz. vol. 160; p. 503.
Burr, Ellis M., Champaign, Ill. Can-feeding apparatus. No. 956,036; Apr. 26; Sp. p. 5073; Gaz. vol. 153; p. 897.
Burr, Frank W., Monrovia, Cal. Device to prevent friction on railway-curves. No. 960,812; June 7; Sp. p. 1162; Gaz. vol. 155; p. 194.
Burr, Fred H. (See Barnum, Cordie, assignor.)
Burr, George H., *et al.*, trustees. (See Schwartz, Herman M., assignor.)
Burr, Henry B. (See Lichtenberg, Erich H., assignor.)
Burr, Henry B. (See McKenna, Francis E., assignor.)
Burr, John A., Feeding Hills, assignor of one-half to F. A. Champlin, East Long Meadow, Mass. Pocket match-safe. No. 950,815; Mar. 1; Sp. p. 765; Gaz. vol. 152; p. 122.
Burr, William H., and J. A. Lockwood, New York, N. Y. Conduit or subway. No. 950,610; Mar. 1; Sp. p. 311; Gaz. vol. 152; p. 51.
Burrell, Delavan V., Rocky Ford, Colo. Centrifugal pump. No. 949,215; Feb. 15; Sp. p. 2998; Gaz. vol. 151; p. 532.
Burrell, Luther A. (See Gregg, Francis F., assignor.)
Burridge, Lee S., New York, N. Y. Type-writing machine. No. 961,101; June 14; Sp. p. 1742; Gaz. vol. 155; p. 316.
Burridge, Lee S., New York, N. Y. Type-writing machine. No. 973,341; Oct. 18; Sp. p. 4032; Gaz. vol. 159; p. 690.
Burrmeister, Martin, Worcester, Mass. Egg-separator. No. 956,678; May 3; Sp. p. 372; Gaz. vol. 154; p. 61.
Burroughes & Watts. (See Ransom, Charles, assignor.)
Burroughs Adding Machine Company. (See Barrett, Edward R., assignor.)
Burroughs Adding Machine Company. (See Barrett, Glenn J., assignor.)
Burroughs Adding Machine Company. (See Foster, Clarence B., assignor.)
Burroughs Adding Machine Company. (See Kilpatrick, William J., assignor.)
Burroughs Adding Machine Company. (See Kreis, Oscar C., Jr., assignor.)
Burroughs Adding Machine Company. (See Roche, William J., assignor.)
Burroughs Adding Machine Company. (See Vincent, Jesse G., assignor.)
Burroughs Adding Machine Company. (See Wales, Charles, assignor.)
Burrow, Nancy L. (See Hoffman, Jesse D., assignor.)
Burrowes, Edward T., Portland, Me. Spare wheel for vehicles. No. 951,938; Mar. 15; Sp. p. 3011; Gaz. vol. 152; p. 545.
Burrowes, Sidney, Niagara Falls Centre, Ontario, Canada. Reinforced concrete construction. No. 953,368; Mar. 29; Sp. p. 6010; Gaz. vol. 152; p. 1080.
Burrows, Charles, Weehawken, N. J. Pen-beam. No. 979,126; Dec. 20; Sp. p. 3726; Gaz. vol. 161; p. 645.
Burrows, Clarence B., Beverly, Mass., assignor to Beverly Lock-Nut and Lock-Bolt Company. Nut-lock. No. 964,849; July 19; Sp. p. 4045; Gaz. vol. 156; p. 673.

Burrows, Clarence B., Beverly, Mass., assignor to Beverly Lock-Nut and Lock-Bolt Company. Screw-lock. No. 964,850; July 19; Sp. p. 4047; Gaz. vol. 156; p. 674.
Burrows, Eastman A., Chicago, Ill., and F. P. McIntosh, Elkhart, Ind., assignors, by mesne assignments, to General Electric Company. Circuit-breaker. No. 963,859; July 12; Sp. p. 1873; Gaz. vol. 156; p. 307.
Burrows, George H. (See Churchward, Burrows, and Champeney.)
Burrows, Jarvis R., Chicago, Ill. Air-compressor. No. 972,813; Oct. 18; Sp. p. 2824; Gaz. vol. 159; p. 505.
Burrows, John W., Cement, Okla. Store-cabinet. No. 964,388; July 12; Sp. p. 2931; Gaz. vol. 156; p. 484.
Burrows, Joseph, assignor to A. Ross, Port Arthur, Ontario, Canada. Explosive compound. No. 968,919; Aug. 30; Sp. p. 6574; Gaz. vol. 157; p. 1145.
Burrows Lock Nut & Bolt Company. (See Johnson, Clarence H., assignor.)
Burrows, William R., Newark, N. J., assignor to General Electric Company. Exhausting-machine. No. 973,625; Oct. 25; Sp. p. 4646; Gaz. vol. 159; p. 808.
Burry, John, deceased; M. Burry, executrix, assignor to The Stock Quotation Telegraph Company, New York, N. Y. Printing-telegraph receiver. No. 962,694; June 28; Sp. p. 5191; Gaz. vol. 155; p. 907.
Burry, Marie, executrix. (See Burry, John.)
Bursch, Gustavus A., Brooklyn, N. Y. Razor-strop. No. 963,117; July 5; Sp. p. 240; Gaz. vol. 156; p. 32.
Burson Bros. (See Burson, Harry H., assignor.)
Burson, George, Winamac, Ind. Explosive-engine starter. No. 960,072; May 31; Sp. p. 7925; Gaz. vol. 154; p. 1330.
Burson, Harry H., assignor to Burson Bros., Chicago, Ill. Studding for wall or ceiling boards. No. 969,086; Aug. 30; Sp. p. 6900; Gaz. vol. 157; p. 1202.
Burson, Harry H., assignor to Burson Bros., Chicago, Ill. Studding for plaster-boards. No. 979,643; Dec. 27; Sp. p. 4809; Gaz. vol. 161; p. 844.
Burson, Harry H., assignor to Burson Bros., Chicago, Ill. Cross-brace for plaster-boards or the like. No. 979,644; Dec. 27; Sp. p. 4811; Gaz. vol. 161; p. 844.
Burst, Orville J., Grand Rapids, Mich. Burglar-alarm. No. 950,762; Mar. 1; Sp. p. 642; Gaz. vol. 152; p. 103.
Burstyn, Walther, Berlin, Germany. Diaphragm for acoustic apparatus. No. 954,715; Apr. 12; Sp. p. 2193; Gaz. vol. 153; p. 383.
Burt, Alonzo, Albany, assignor of one-half to V. B. Hubbell, New York, N. Y. Manufacturing billiard or pool balls. No. 979,397; Dec. 20; Sp. p. 4267; Gaz. vol. 161; p. 734.
Burt, Alonzo F. (See Snyder and Burt.)
Burt, Edwin, El Oro, Mexico. Process of filtration. No. 961,713; June 14; Sp. p. 3032; Gaz. vol. 155; p. 525.
Burt, Harry A., Detroit, Mich. Internal-combustion engine. No. 948,308; Feb. 8; Sp. p. 1102; Gaz. vol. 151; p. 203.
Burt, James H. (See Fancher and Burt.)
Burt, James H. (See Fancher, Burt, and Van Winkle.)
Burt, John, Narberth, assignor to William Sellers & Company, Philadelphia, Pa. Tool-holder. No. 945,081; Jan. 4; Sp. p. 160; Gaz. vol. 150; p. 26.
Burt, William E., Yuba, Wis. Telephone noise-excluder and current-saving device. No. 967,719; Aug. 16; Sp. p. 4001; Gaz. vol. 157; p. 686.
Burtle, Joseph E., Springfield, Ill. Pneumatic hammer. No. 968,236; Aug. 23; Sp. p. 5125; Gaz. vol. 157; p. 883.
Burtner, Jacob H., Keedysville, Md. Chain-pump bucket. No. 961,933; June 21; Sp. p. 3517; Gaz. vol. 155; p. 621.
Burton, Charles E. (See Fishburn, William R., assignor.)
Burton, Charles S., Oak Park, assignor to M. Clark, Chicago, Ill. Duplex duct-tracker for automatic music-playing instruments. No. 958,721; May 24; Sp. p. 4995; Gaz. vol. 154; p. 845.
Burton, Charles S., Oak Park, assignor to M. Clark, Chicago, Ill. Tracker-mouthpiece and accenting device for automatic music-playing instruments. No. 964,389; July 12; Sp. p. 2932; Gaz. vol. 156; p. 484.
Burton, Edward, Ansley, Nebr. Insulator. No. 947,094; Jan. 18; Sp. p. 4624; Gaz. vol. 150; p. 764.
Burton, Ernest D., Chicago, Ill. Butter or cheese receptacle. No. 958,991; May 24; Sp. p. 5597; Gaz. vol. 154; p. 941.
Burton, Frank F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Telescope-sight mount for fire-arms. No. 960,913; June 7; Sp. p. 1165; Gaz. vol. 155; p. 194.
Burton, Frank F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Sliding operating-handle for firearms. No. 962,889; June 28; Sp. p. 5583; Gaz. vol. 155; p. 976.
Burton, George D., Boston, Mass. Washing clothes. No. 976,035; Nov. 15; Sp. p. 4260; Gaz. vol. 160; p. 723.
Burton, George D., Boston, Mass. Unhairing and tanning hides or skins. No. 976,036; Nov. 15; Sp. p. 4262; Gaz. vol. 160; p. 723.
Burton, George D., Boston, Mass. Treating vegetable matter. No. 976,037; Nov. 15; Sp. p. 4264; Gaz. vol. 160; p. 723.
Burton, George D., Boston, Mass. Apparatus for treating sugar-cane and similar substances. No. 976,779; Nov. 22; Sp. p. 5936; Gaz. vol. 160; p. 1002.
Burton, George D., Boston, Mass. Manufacturing ice-cream, sherbet, &c. No. 976,780; Nov. 22; Sp. p. 5939; Gaz. vol. 160; p. 1002.
Burton, James E., Whitewater, Wis. Drag attachment for plows. No. 969,130; Aug. 30; Sp. p. 7001; Gaz. vol. 157; p. 1217.
Burton, James L., Plainville, Conn., assignor of one-half to F. A. Champlin, East Long Meadow, Mass. Electrical cut-out. No. 978,004; Dec. 6; Sp. p. 1255; Gaz. vol. 161; p. 201.
Burton, Oliver M., Chicago, Ill. Mattress. No. 969,840; Sept. 13; Sp. p. 1519; Gaz. vol. 158; p. 261.
Burton, Oliver M., Chicago, Ill. Mattress and the like. No. 977,508; Dec. 6; Sp. p. 184; Gaz. vol. 161; p. 30.
Burton, William, St. John, New Brunswick, Canada. Pulp-making machine. No. 959,307; May 24; Sp. p. 6249; Gaz. vol. 154; p. 1045.
Burull, Oscar A., Beloit, Wis. End-gate for wagons. No. 947,193; Jan. 18; Sp. p. 4815; Gaz. vol. 150; p. 794.
Burwell, Edward L., Winchester, Mass. Ship elevator, cradle, and dock. No. 955,130; Apr. 19; Sp. p. 3091; Gaz. vol. 153; p. 555.
Burwell, Edward L., Winchester, Mass. Ship-elevator apparatus. No. 955,131; Apr. 19; Sp. p. 3098; Gaz. vol. 153; p. 556.
Busald, Frank, Coshocton, Ohio. Double-facer. No. 956,794; May 3; Sp. p. 629; Gaz. vol. 154; p. 100.
Busam, Theodor, Stuttgart, Germany. Apparatus for the production of bromid-of-silver post-cards and similar copies. No. 978,126; Dec. 6; Sp. p. 1516; Gaz. vol. 161; p. 244.
Busby, Harley S., Girard, Kans. Adjustable beam and frame for sulky and gang plows. No. 958,091; May 17; Sp. p. 3593; Gaz. vol. 154; p. 606.
Busby, L. A. (See Busby, Nahum J., assignor.)
Busby, Nahum J., Boston, Mass. Resilient block. No. 978,689; Dec. 13; Sp. p. 2752; Gaz. vol. 161; p. 469.
Busby, Nahum J., assignor to L. A. Busby, Chelsea, Mass. Interchangeable shipping-case. No. 948,951; Feb. 8; Sp. p. 2462; Gaz. vol. 151; p. 418.
Busch, Albert, Brunswick, assignor to Firm of Bauer & Cie., Berlin, Germany. Albumen preparation for albuminoids and salts of guaiacol-sulfonic acids. No. 979,645; Dec. 27; Sp. p. 4812; Gaz. vol. 161; p. 845.
Busch, Carl W. J., Pinneberg, assignor of one-half to H. Roosen, Munich, Germany. Field system for motor electric meters. No. 947,515; Jan. 25; Sp. p. 5622; Gaz. vol. 150; p. 934.
Busch, Charles, New York, N. Y. Secondary-battery plate. No. 968,119; Aug. 23; Sp. p. 4856; Gaz. vol. 157; p. 843.
Busch, Herman F., Millvale, assignor to Armstrong Cork Company, Pittsburg, Pa. Making heated insulating material. No. 967,720; Aug. 16; Sp. p. 4003; Gaz. vol. 157; p. 686.
Busch, Richard, Hanover, Germany. Apparatus for producing carbureted air. No. 976,781; Nov. 22; Sp. p. 5941; Gaz. vol. 160; p. 1002.
Busch, Samuel, New York, N. Y. Mounting for motor-cycle saddles. No. 975,827; Nov. 15; Sp. p. 3857; Gaz. vol. 160; p. 651.
Buschek, Fred C., Chicago, Ill. Seal-lock. No. 978,690; Dec. 13; Sp. p. 2753; Gaz. vol. 161; p. 469.
Buscher, Hermann, assignor to Alb. & E. Henkels, Langerfeld, near Barmen, Germany. Machine for producing braided or plaited lace. No. 946,007; Jan. 11; Sp. p. 2221; Gaz. vol. 150; p. 369.
Buschman, Edward L., East Orange, N. J. Bag-cleaning machine. No. 966,522; Aug. 9; Sp. p. 1480; Gaz. vol. 157; p. 254.
Buschmann, Theodor E., Chemnitz, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke A. G., Schoenau, near Chemnitz, Germany. Ribbon-vibrating mechanism. No. 949,818; Feb. 22; Sp. p. 4269; Gaz. vol. 151; p. 770.
Buschmann, Theodor E., assignor to Wanderer Werke vorm. Winklhofer & Jaenicke A. G., Schonau, near Chemnitz, Germany. Automatic type-writer-ribbon-reversing mechanism. No. 977,269; Nov. 29; Sp. p. 7038; Gaz. vol. 160; p. 1197.
Busell, John N., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 961,752; June 21; Sp. p. 3119; Gaz. vol. 155; p. 562.
Busenbenz, Jacob J., Chicago, Ill. Clock. No. 973,854; Oct. 25; Sp. p. 5116; Gaz. vol. 159; p. 888.
Buser, Joseph J., Freedom, Pa. Gem-mounting. No. 962,305; June 21; Sp. p. 4338; Gaz. vol. 155; p. 749.
Buser, Joseph J., Freedom, Pa. Diamond and stone setting tool. No. 980,060; Dec. 27; Sp. p. 5715; Gaz. vol. 161; p. 983.
Buser, William E., Chillicothe, Ohio. Tufting-machine. No. 960,073; May 31; Sp. p. 7926; Gaz. vol. 154; p. 1331.
Buser, William E., Chillicothe, Ohio. Button-support for tufting-machines. No. 960,074; May 31; Sp. p. 7928; Gaz. vol. 154; p. 1331.
Busey, John F. and J. F., Jr., Concord, Cal. Stovepipe water-heater. No. 956,934; May 3; Sp. p. 936; Gaz. vol. 154; p. 149.
Busey, John F., Jr. (See Busey, John F. and J. F., Jr.)

Alphabetical list of patentees—Continued.

Busfield, James, Haverhill, Mass. Leather-splitting machine. No. 946,819; Jan. 18; Sp. p. 4050; Gaz. vol. 150; p. 671.

Busfield, James, Haverhill, Mass. Skiving-machine. No. 954,778; Apr. 12; Sp. p. 2348; Gaz. vol. 153; p. 405.

Busfield, James, Haverhill, Mass. Welt-slitting machine. No. 977,851; Dec. 6; Sp. p. 935; Gaz. vol. 161; p. 148.

Bush, Abraham L., East Orange, N. J. Railway-track construction. No. 966,793; Aug. 9; Sp. p. 2082; Gaz. vol. 157; p. 346.

Bush, Augustus L., Worcester, Mass. Elevator safety device. No. 975,828; Nov. 15; Sp. p. 3859; Gaz. vol. 160; p. 651.

Bush, Benjamin O., Kalamazoo, Mich., assignor to G. W. Upton, Warren, Ohio. Reel-clamp for fishing-rods. No. 950,656; Mar. 1; Sp. p. 416; Gaz. vol. 152; p. 67.

Bush, Burnett, Kennedy, N. Y. Bag-holder. No. 957,652; May 10; Sp. p. 2447; Gaz. vol. 154; p. 423.

Bush, Hiram T., Port Hope, Ontario, Canada. Porcelain-enameled ware. No. 980,061; Dec. 27; Sp. p. 5717; Gaz. vol. 161; p. 983.

Bush, James J., New York, N. Y. Steam-generator. No. 978,135; Dec. 13; Sp. p. 1563; Gaz. vol. 161; p. 277.

Bush, Le Grand C. (See Pixley and Bush.)

Bush, Luther S., Milwaukee, Wis. House-heating boiler. No. 948,413; Feb. 8; Sp. p. 1336; Gaz. vol. 151; p. 239.

Bush, Samuel P., Columbus, Ohio. Center-bearing. No. 967,721; Aug. 16; Sp. p. 4006; Gaz. vol. 157; p. 686.

Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-coupling. No. 958,359; May 17; Sp. p. 4289; Gaz. vol. 154; p. 700.

Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-coupling. No. 958,360; May 17; Sp. p. 4290; Gaz. vol. 154; p. 700.

Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-coupling-operating device. No. 958,361; May 17; Sp. p. 4292; Gaz. vol. 154; p. 701.

Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Truck construction for cars. No. 958,362; May 17; Sp. p. 4293; Gaz. vol. 154; p. 701.

Bush, Sterling M., Sinclairville, N. Y. Cutter for veneer-machines. No. 945,690; Jan. 4; Sp. p. 1457; Gaz. vol. 150; p. 228.

Bush, Tobias. (See Ferguson, Albert M., assignor.)

Bushey, Eli J., New York, N. Y. Demountable rim. No. 954,375; Apr. 5; Sp. p. 1434; Gaz. vol. 153; p. 239.

Bushey, Eli J., New York, N. Y. Oil-proof spark-plug. No. 957,653; May 10; Sp. p. 2449; Gaz. vol. 154; p. 423.

Bushey, Frank, Munising, Mich. Nut-lock. No. 951,414; Mar. 8; Sp. p. 1948; Gaz. vol. 152; p. 338.

Bushey, William, Vincennes, Ind. Driving-gear for motor-vehicles. No. 967,722; Aug. 16; Sp. p. 4008; Gaz. vol. 157; p. 687.

Bushnell, Philip S., Lakewood, assignor of one-half to Charles R. Cannon, Cleveland, Ohio. Transmission mechanism for motor-cycles. No. 948,623; Feb. 8; Sp. p. 1792; Gaz. vol. 151; p. 307.

Buskard, Samuel G., Hamilton, Ontario, Canada. Flat-iron heater. No. 970,013; Sept. 13; Sp. p. 1886; Gaz. vol. 158; p. 321.

Buskard, Samuel G., Hamilton, Ontario, Canada. Table for garment-workers. No. 970,014; Sept. 13; Sp. p. 1888; Gaz. vol. 158; p. 321.

Buskard, Samuel G., Hamilton, Ontario, Canada. Smoothing-iron. No. 970,788; Sept. 20; Sp. p. 3542; Gaz. vol. 158; p. 606.

Buskirk, Clarence A., St. Louis, Mo. Concrete block. No. 952,305; Mar. 15; Sp. p. 3720; Gaz. vol. 152; p. 666.

Busky, John S., New York, N. Y. Pneumatic heel for boots and shoes. No. 949,754; Feb. 22; Sp. p. 4125; Gaz. vol. 151; p. 746.

Busky, John S., New York, N. Y. Shoe-shank. No. 966,794; Aug. 9; Sp. p. 2083; Gaz. vol. 157; p. 346.

Buss, Charles, Glenwillard, Pa. Car-door. No. 955,757; Apr. 19; Sp. p. 4463; Gaz. vol. 153; p. 770.

Buss, Charles, Conway, Pa. Buffer. No. 965,073; July 19; Sp. p. 4497; Gaz. vol. 156; p. 748.

Buss, Clayton D., Easton, Pa. Mail-bag catcher and delivery apparatus. No. 956,935; May 3; Sp. p. 938; Gaz. vol. 154; p. 150.

Buss, Jacob H., Saltillo, Tenn. Flying-machine. No. 968,120; Aug. 23; Sp. p. 4857; Gaz. vol. 157; p. 843.

Buss, Wendell R., Grand Rapids, Mich. Sectional chip-breaker for planing-machines. No. 954,376; Apr. 5; Sp. p. 1435; Gaz. vol. 153; p. 239.

Buss, Wendell R., Grand Rapids, and A. J. Fairbanks, Holland, Mich.; said Fairbanks assignor to said Buss. Journal-box. No. 957,186; May 10; Sp. p. 1475; Gaz. vol. 154; p. 263.

Bussabarger, William H., assignor of one-half to G. B. Wahl, Corydon, Ind. Car-replacer. No. 954,253; Apr. 5; Sp. p. 1183; Gaz. vol. 153; p. 198.

Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam strut. No. 949,882; Feb. 22; Sp. p. 4430; Gaz. vol. 151; p. 792.

Busser, William T. (See Robison, John G., assignor.)

Bussey, Joseph W., Black Diamond, Wash. Gate for cars. No. 977,270; Nov. 29; Sp. p. 7041; Gaz. vol. 160; p. 1197.

Bussey, Leonard I., and E. R. Lippincott, Philadelphia, Pa. Coin-tray. No. 968,779; Aug. 30; Sp. p. 6292; Gaz. vol. 157; p. 1098.

Bustard, Paul, assignor to E. H. Archer, Frederick, Okla. Carbureter. No. 965,867; Aug. 2; Sp. p. 39; Gaz. vol. 157; p. 9.

Buswell, Eugene, and T. Cascaden, Jr., Waterloo, Iowa; said Buswell assignor to said Cascaden. Wagon running-gear. No. 956,795; May 3; Sp. p. 634; Gaz. vol. 154; p. 101.

Buswell, Eugene, and T. Cascaden, Jr., Waterloo, Iowa; said Buswell assignor to said Cascaden. Conveyer-apron for fertilizer-distributers. No. 971,662; Oct. 4; Sp. p. 315; Gaz. vol. 159; p. 57.

Butcher, Harry G., Urbana, Ohio. Attachment for emery-wheel dressers. No. 970,681; Sept. 20; Sp. p. 3304; Gaz. vol. 158; p. 568.

Butcher, James M., assignor to International Burglar Alarm Company, St. Louis, Mo. Alarm. No. 967,322; Aug. 16; Sp. p. 3185; Gaz. vol. 157; p. 551.

Butcher, Offie M., Coeur d'Alene, Idaho. Current-motor. No. 958,590; May 17; Sp. p. 4735; Gaz. vol. 154; p. 778.

Butcher, Solomon D., Kansas City, Mo. Photographic-printing device. No. 964,748; July 19; Sp. p. 3835; Gaz. vol. 156; p. 638.

Butker, Charles W. (See Adams and Butker.)

Butkus, Joseph, *et al.* (See Eytalis, Charles, assignor.)

Butler, Albert, Mason, Mich. Stack and shed cover. No. 960,270; June 7; Sp. p. 64; Gaz. vol. 155; p. 14.

Butler, Albert C., Mineral Wells, Tex. Burner. No. 957,143; May 3; Sp. p. 1364; Gaz. vol. 154; p. 218.

Butler, Charles A., Bartlesville, Okla. Cable-clamp. No. 950,275; Feb. 22; Sp. p. 5303; Gaz. vol. 151; p. 929.

Butler, Clinton C., assignor to William Galloway Company, Waterloo, Iowa. Fertilizer-distributer. No. 955,132; Apr. 19; Sp. p. 3103; Gaz. vol. 153; p. 556.

Butler, Clinton C., assignor to William Galloway Company, Waterloo, Iowa. Fertilizer-distributer. No. 955,133; Apr. 19; Sp. p. 3104; Gaz. vol. 153; p. 557.

Butler, Clinton C., assignor to William Galloway Company, Waterloo, Iowa. Adjustable clamp. No. 962,620; June 28; Sp. p. 5041; Gaz. vol. 155; p. 881.

Butler, Cora A., Chicago, Ill. Burner and support for vaporizers. No. 960,500; June 7; Sp. p. 524; Gaz. vol. 155; p. 87.

Butler, Edward F., Sr., Cavendish, Vt. Rail-supporting device. No. 950,366; Feb. 22; Sp. p. 5462; Gaz. vol. 151; p. 958.

Butler, Fabius M., David City, Nebr. Lightning-arrester. No. 969,336; Sept. 6; Sp. p. 389; Gaz. vol. 158; p. 63.

Butler, Frank E., Detroit, Mich., assignor to American Wireless Institute. Apparatus for teaching wireless telegraphy. No. 956,936; May 3; Sp. p. 940; Gaz. vol. 154; p. 150.

Butler, Frank O., and S. C. Rockman, Philadelphia, Pa. Emergency-exit for suspension-railway cars. No. 945,748; Jan. 11; Sp. p. 1649; Gaz. vol. 150; p. 277.

Butler, Frank O., and S. C. Rockman, Philadelphia, Pa. Suspension-railway crossing. No. 945,749; Jan. 11; Sp. p. 1650; Gaz. vol. 150; p. 277.

Butler, Frank O., and S. C. Rockman, Philadelphia, Pa. Suspension-railway truck. No. 945,750; Jan. 11; Sp. p. 1652; Gaz. vol. 150; p. 277.

Butler, Frank O., and S. C. Rockman, Philadelphia, Pa. Suspension-railway structure. No. 945,751; Jan. 11; Sp. p. 1654; Gaz. vol. 150; p. 278.

Butler, Frank O., and S. C. Rockman, Philadelphia, Pa. Suspension-railway switch. No. 945,752; Jan. 11; Sp. p. 1656; Gaz. vol. 150; p. 278.

Butler, George P., New Haven, Conn. Expansible bit. No. 970,789; Sept. 20; Sp. p. 3543; Gaz. vol. 158; p. 606.

Butler, H. S. (See Shedenhelm, Robert, assignor.)

Butler, Henry, Worcester, Mass. Fishing appliance. No. 962,309; June 21; Sp. p. 4345; Gaz. vol. 155; p. 750.

Butler, James A., Winthrop, Mass. Fabric-piling mechanism. No. 965,561; July 26; Sp. p. 5559; Gaz. vol. 156; p. 946.

Butler, James A., Winthrop, Mass., and L. Flick, Sayles-ville, R. I. Keir. No. 958,591; May 17; Sp. p. 4736; Gaz. vol. 154; p. 778.

Butler, James L., Alliance, Ohio. Gas and air valve for open-hearth furnaces. No. 972,435; Oct. 11; Sp. p. 1986; Gaz. vol. 159; p. 348.

Butler, James L., Alliance, Ohio. Annealing-furnace. No. 979,425; Dec. 27; Sp. p. 4327; Gaz. vol. 161; p. 768.

Butler, James M., assignor of one-fourth to J. G. De Turk, Los Angeles, Cal. Wave-motor. No. 956,796; May 3; Sp. p. 634; Gaz. vol. 154; p. 101.

Butler, Robert W., Sunnyside, Wash. Clutch. No. 947,962; Feb. 1; Sp. p. 390; Gaz. vol. 151; p. 62.

Butler, Walter, St. Paul, Minn. Tunnel. No. 958,592; May 17; Sp. p. 4740; Gaz. vol. 154; p. 778.

Butler, William, Lockport, N. Y. Lightning-arrester. No. 974,859; Nov. 8; Sp. p. 1766; Gaz. vol. 160; p. 294.

Butler, William A., San Francisco, Cal. Continuous kiln. No. 969,034; Aug. 30; Sp. p. 6794; Gaz. vol. 157; p. 1184.

Butler, William E., David City, Nebr. Central-station call system for telephone-lines. No. 977,067; Nov. 29; Sp. p. 6599; Gaz. vol. 160; p. 1126.

Butler, William G., Brooklyn, N. Y. Making invoice and scrap books. No. 970,682; Sept. 20; Sp. p. 3306; Gaz. vol. 158; p. 568.
Butler, William H. (See Hutton, George B., assignor.)
Butler, William S., Duluth, Minn. Flour-sifter. No. 976,782; Nov. 22; Sp. p. 5943; Gaz. vol. 160; p. 1003.
Butler, Wilson W., *et al.* (See Murray, Charles F., assignor.)
Butsch, Alphonse, St. Lucia, British West Indies. Internal-combustion engine. No. 966,309; Aug. 2; Sp. p. 974; Gaz. vol. 157; p. 156.
Butt, Frederic W., Brooklyn, assignor of two-thirds to C. S. Hawley, New York, N. Y. Attachment for chairs. No. 948,309; Feb. 8; Sp. p. 1106; Gaz. vol. 151; p. 203.
Butt, John H., Mohall, N. D. Wagon-box brace. No. 974,469; Nov. 1; Sp. p. 907; Gaz. vol. 160; p. 134.
Butterfield, James H., Logan, Ohio. Automatic lamp-operating mechanism for automobiles. No. 980,062; Dec. 27; Sp. p. 5718; Gaz. vol. 161; p. 984.
Butterfield, John C., Belmond, Iowa. Wheel attachment. No. 967,723; Aug. 16; Sp. p. 4009; Gaz. vol. 157; p. 687.
Butterfield, John W., Columbus, Ohio, assignor of one-half to W. H. Strippel. Chicago, Ill. Addressing-machine. No. 947,589; Jan. 25; Sp. p. 5770; Gaz. vol. 150; p. 959.
Butterfield Live Stock Company *et al.* (See Ross, John A., assignor.)
Butters Patent Vacuum Filter Company, The. (See Patterson, Clarence G., assignor.)
Butters, William, Benton, Wis. Photographic vignetting-machine. No. 964,085; July 12; Sp. p. 2330; Gaz. vol. 156; p. 384.
Butterworth, George H., and E. Veevers, Liverpool, England. Flash-light signaling apparatus. No. 973,913; Oct. 25; Sp. p. 5249; Gaz. vol. 159; p. 909.
Butterworth, Samuel, Somerville, Mass. Spring-winding device. No. 963,512; July 5; Sp. p. 1097; Gaz. vol. 156; p. 167.
Buttlar, Rudolph W. E., Columbus, Ohio. Window and window-frame. No. 951,362; Mar. 8; Sp. p. 1831; Gaz. vol. 152; p. 321.
Buttler, William, Indianapolis, Ind. Manufacturing wire-glass. No. 980,063; Dec. 27; Sp. p. 5719; Gaz. vol. 161; p. 984.
Buttles, Gilbert W., Appleton, Wis. Clothes-line reel. No. 969,598; Sept. 6; Sp. p. 964; Gaz. vol. 158; p. 153.
Button, Arnold E. (See Lee and Button.)
Button, F. S., *et al.* (See Underwood, Charles W., assignor.)
Button, Theodore E. (See Hewlett and Button.)
Buttorff, John H., Fort Collins, Colo. Head-gate. No. 976,720; Nov. 22; Sp. p. 5792; Gaz. vol. 160; p. 980.
Buttrill, David B., Mansfield, Tex. Combined scraper and fender. No. 975,930; Nov. 15; Sp. p. 4070; Gaz. vol. 160; p. 686.
Butts, Daniel G., Chicago, Ill., assignor to General Electric Company. Electric switch. No. 948,441; Feb. 8; Sp. p. 1388; Gaz. vol. 151; p. 247.
Butts, Joel W., Monroe, Ga. Meter-box. No. 976,038; Nov. 15; Sp. p. 4268; Gaz. vol. 160; p. 724.
Buttweiler, John R., Freeport, Minn. Disk-sharpener. No. 950,016; Feb. 22; Sp. p. 4778; Gaz. vol. 151; p. 841.
Butz, William M. (See Schwanengel, Charles F., assignor.)
Butze, Adolphe. (See Coleman, James M., assignor.)
Buxton, Anthony. (See Turner and Buxton.)
Buxton, Benjamin C., Buxton, Iowa. Automatic cager. No. 956,037; Apr. 26; Sp. p. 5075; Gaz. vol. 153; p. 897.
Buxton, Francis E., Lockington, Ohio. Pulley. No. 971,356; Sept. 27; Sp. p. 4697; Gaz. vol. 158; p. 821.
Buyhers, James, Casey, Ill. Steam-boiler. No. 961,082; June 7; Sp. p. 1706; Gaz. vol. 155; p. 283.
Buzby, Granville N., Philadelphia, Pa., and W. S. Hukill, Wilmington, Del. Railway-rail anchor. No. 975,747; Nov. 15; Sp. p. 3702; Gaz. vol. 160; p. 624.
Buzzard, Benjamin, Tower Hill, Ill. Handle for shovels, spades, forks, and the like. No. 945,691; Jan. 4; Sp. p. 1459; Gaz. vol. 150; p. 228.
Buzzell, Josiah W., East Orange, N. J., and W. H. Larkin, Jr., Laporte, Ind. Handling plastic material. No. 951,754; Mar. 8; Sp. p. 2620; Gaz. vol. 152; p. 453.
Byars, Edgar, Amarillo, Tex. Driving-gear for vehicles. No. 968,447; Aug. 23; Sp. p. 5544; Gaz. vol. 157; p. 957.
Bye, Erling, and K. Buer, Brooklyn, N. Y. Plaster-board. No. 957,144; May 3; Sp. p. 1366; Gaz. vol. 154; p. 219.
Byerly, Clara. (See Burgunder, Richard, assignor.)
Byerly, William A. (See Pruett, William M., assignor.)
Byers, Emery M., Belvidere, Ill. Vapor-burner. No. 965,074; July 19; Sp. p. 4498; Gaz. vol. 156; p. 748.
Byers, Frank T., Mount Pleasant, Pa. Storage-carrier for portable elevators. No. 946,008; Jan. 11; Sp. p. 2223; Gaz. vol. 150; p. 369.
Byers, Jacob J., Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Rail-anchor. No. 978,110; Dec. 6; Sp. p. 1475; Gaz. vol. 161; p. 238.
Byers, James A., Centerville, Tenn. Railway-tie. No. 958,691; May 17; Sp. p. 4931; Gaz. vol. 154; p. 810.
Byington, William C., Bogalusa, La. Jack for starting engines. No. 947,294; Jan. 25; Sp. p. 5073; Gaz. vol. 150; p. 858.
Byl, George N., assignor of one-third to F. B. Dilts, Jersey City, N. J., and one-third to H. I. Dilts, Long Island City, N. Y. Game apparatus. No. 972,597; Oct. 11; Sp. p. 2377; Gaz. vol. 159; p. 406.
Byner, John, New York, N. Y. Combination pool and billiard table. No. 980,142; Dec. 27; Sp. p. 5914; Gaz. vol. 161; p. 1010.
Bynum, John F. (See Ballard and Bynum.)
Byrd, Adam M., *et al.* (See Humason, Granville A., assignor.)
Byrd, Arthur B., Oklahoma, Okla. Window-scaffold. No. 969,521; Sept. 6; Sp. p. 789; Gaz. vol. 158; p. 124.
Byrd, Atvill, and C. R. Treadway, Kansas City, Mo. Harness for controlling animals. No. 962,890; June 28; Sp. p. 5584; Gaz. vol. 155; p. 976.
Byrd, Walter T., Logansville, Ga. Fender for cultivators. No. 975,326; Nov. 8; Sp. p. 2813; Gaz. vol. 160; p. 455.
Byrne, Alphonso J., *et al.* (See Radigan, John E., assignor.)
Byrne, George A., Washington, D. C. Theatrical device. No. 966,996; Aug. 9; Sp. p. 2512; Gaz. vol. 157; p. 413.
Byrne, John T. (See Stephan, Frederick A., assignor.)
Byrne, Matthew, San Francisco, Cal. Heel-cushion. (Reissue.) No. 13,150; Sept. 6; Sp. p. 1327; Gaz. vol. 158; p. 211.
Byrne, Thomas W., Boston, Mass. Primary battery. No. 946,009; Jan. 11; Sp. p. 2225; Gaz. vol. 150; p. 369.
Byrne, Walter A. (See Morrissy, Wise, and Byrne.)
Byrnes, James A., St. Louis, Mo. Machine for opening sealed envelops. No. 965,868; Aug. 2; Sp. p. 41; Gaz. vol. 157; p. 9.
Byrom, Thomas J., Harriman, Tenn. Trolling-bait. No. 963,860; July 12; Sp. p. 1875; Gaz. vol. 156; p. 307.
Byron, David R., Philadelphia, Pa. Device for supporting washbasins. No. 979,127; Dec. 20; Sp. p. 3727; Gaz. vol. 161; p. 645.
Byron Jackson Iron Works. (See Forward, Walter L., assignor.)
Byron, James G., New York, N. Y. Land-marker. No. 951,387; Mar. 8; Sp. p. 1885; Gaz. vol. 152; p. 329.
Byrum, George R. (See Copeland, George W., assignor.)
Bystrom, Jonas, Tower, Minn. Sled-runner. No. 954,377; Apr. 5; Sp. p. 1437; Gaz. vol. 153; p. 240.
Bywater, Norbert W. (See Winston and Bywater.)
C. Van Deventer & Company. (See Bassler, Edwin M., assignor.)
C. A. Mezger, Incorporated. (See Kerr, George W., assignor.) (Reissue.)
C. A. Thompson Machine Company. (See Parsons and O'Neil, assignors.)
C. B. Cottrell & Sons Company. (See Barber, Howard M., assignor.)
C. B. Cottrell & Sons Company. (See Cottrell, Edgar H., assignor.)
C. B. Cottrell & Sons Company. (See Greenway, Richard J., assignor.)
C. B. Cottrell and Sons Company. (See Upham, Burt F., assignor.)
C. F. Pease Blue Print Machinery and Supply Company, The. (See Pease and Gawler, assignors.)
C. G. Conn Co. (See Rubright, Mervin M., assignor.)
C. G. Sargent's Sons Corporation. (See Furbush, Frank L., assignor.)
C. G. Sargent's Sons Corporation. (See Sargent, Frederick G., assignor.)
C. J. Root Company, The. (See Northrop, Frank E., assignor.)
C. J. White Manufacturing Company, The. (See White, Charles J., assignor.)
C. K. Systems Company. (See Cooper, Edwin H., assignor.)
C. & L. Manufacturing Company, The. (See Conley, Charles M., assignor.)
C. M. Hall Lamp Company. (See French, Warren, assignor.)
C. M. B. Wrench Company. (See Miller, Charles, assignor.)
C. O. Bartlett & Snow Company, The. (See Bighouse, Henry H., assignor.)
C. P. Goerz American Optical Company. (See Schmid and Dewey, assignors.)
C. P. Kimball & Co. (See Graff, Oscar C., assignor.)
C. P. Power Company. (See Noyes, Edward P., assignor.)
C. P. Power Company. (See Pierson, Robert M., assignor.)
C. R. Carver Company. (See Lockwood, Edward M., assignor.)
C. T. Ham Manufacturing Company. (See Bergener, Charles, assignor.)
C. T. Patterson Company. (See Coleman, Thomas A., assignor.)
C. W. Ferguson Collar Co. *et al.* (See Ferguson, Clarence W., assignor.)
C. W. Ferguson Collar Company. (See Condon, John W., assignor.)
C. W. Hunt Company. (See Hunt and King, assignors.)
C. W. Hunt Company. (See Pollock, James, assignor.)
Cabanne, Charles G., St. Louis, Mo. Means for securing tires to vehicle-wheels. No. 962,814; June 28; Sp. p. 5435; Gaz. vol. 155; p. 950.

Alphabetical list of patentees—Continued.

Cabinet Vending Co. (See Sencindiver, Judson H., assignor.)
Cable Company, The. (See Hagey, James C., assignor.)
Cable, Daniel J., Pittsburg, Pa., assignor of one-half to J. A. Harper, Pittsburg, Pa. Urinal-stall. No. 950,657; Mar. 1; Sp. p. 418; Gaz. vol. 152; p. 68.
Cable, Frank T., Quincy, Mass. Ignition trouble-finder. No. 953,776; Apr. 5; Sp. p. 185; Gaz. vol. 153; p. 34.
Cable, Frank T., and T. S. Bailey, Quincy, Mass., assignors to Electric Boat Company, New York, N. Y. Closure for joints. No. 954,668; Apr. 12; Sp. p. 2095; Gaz. vol. 153; p. 367.
Cable, John, Seattle, Wash. Sweeping-machine. No. 947,963; Feb. 1; Sp. p. 391; Gaz. vol. 151; p. 62.
Cabot, Sewall, Brookline, Mass. Space telegraphy. No. 949,518; Feb. 15; Sp. p. 3642; Gaz. vol. 151; p. 634.
Cabot, Sewall, Brookline, Mass. Circuit-controller. No. 954,716; Apr. 12; Sp. p. 2194; Gaz. vol. 153; p. 383.
Cade, Howard E., Pencoyd, and D. R. Knapp, Philadelphia, Pa. Boiler-feed regulator. No. 953,734; Apr. 5; Sp. p. 104; Gaz. vol. 153; p. 21.
Cade, Howard E., Pencoyd, and D. R. Knapp, Philadelphia, Pa. Boiler-feed-water regulator. No. 971,357; Sept. 27; Sp. p. 4702; Gaz. vol. 158; p. 821.
Cadell, John F., Baltimore, Md., assignor, by mesne assignments, to The North Electric Company, Cleveland, Ohio. Selective locking-key. No. 955,134; Apr. 19; Sp. p. 3107; Gaz. vol. 153; p. 557.
Cadell, John F., Baltimore, Md., assignor, by mesne assignments, to The North Electric Company, Cleveland, Ohio. Electrical relay. No. 972,814; Oct. 18; Sp. p. 2830; Gaz. vol. 159; p. 505.
Cadenhead, Thomas M., Georgetown, Ga. Opium ointment. No. 950,658; Mar. 1; Sp. p. 420; Gaz. vol. 152; p. 68.
Cadieu, Charles H., assignor to The Housh Company, Boston, Mass. Mount-trimming machine. No. 949,110; Feb. 15; Sp. p. 2803; Gaz. vol. 151; p. 496.
Cadillac Motor Car Company. (See Sweet, Ernest E., assignor.)
Cadle, Charles L., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Apparatus for bonding rails. No. 950,688; Mar. 1; Sp. p. 477; Gaz. vol. 152; p. 77.
Cadle, Charles L., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Bonding rails. No. 950,716; Mar. 1; Sp. p. 554; Gaz. vol. 152; p. 87.
Cadle, Charles L., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail-bond. No. 963,356; July 5; Sp. p. 787; Gaz. vol. 156; p. 116.
Cadle, Thomas M., Port Deposit, Md. Fence-wire clamp. No. 957,302; May 10; Sp. p. 1746; Gaz. vol. 154; p. 305.
Cadwallader, Joseph W., Monessen, Pa. Toy and game apparatus. No. 970,881; Sept. 20; Sp. p. 3728; Gaz. vol. 158; p. 637.
Cadwell, Harry W., assignor to Frederick Stearns & Company, Detroit, Mich. Advertising device. No. 956,937; May 3; Sp. p. 942; Gaz. vol. 154; p. 150.
Cady, Leroy. (See Adkinson and Cady.)
Caetani, Golasio, *et al.* (See Warner, Lewis E., assignor.)
Cafferty, Theron S., Union, N. Y., and J. F. Markle, Chanute, Kans. Ballast-dresser. No. 978,691; Dec. 13; Sp. p. 2754; Gaz. vol. 161; p. 469.
Caffery, Robert L., Boston, Mass. Faucet. No. 973,914; Oct. 25; Sp. p. 5250; Gaz. vol. 159; p. 910.
Cagnoli, Bernardo J., Montevideo, Uruguay. Safety-envelop. No. 968,738; Aug. 30; Sp. p. 6209; Gaz. vol. 157; p. 1085.
Cahall, William H., Chicago, Ill. Fluid-pressure motor and controlling mechanism therefor. No. 976,983; Nov. 29; Sp. p. 6429; Gaz. vol. 160; p. 1098.
Cahill, Daniel, Kingsbury, N. Y. Fertilizer-distributer. No. 963,684; July 5; Sp. p. 1435; Gaz. vol. 156; p. 225.
Cahill, Edward, Dayton, Ohio. Elevator-shaft construction. No. 952,415; Mar. 15; Sp. p. 3930; Gaz. vol. 152; p. 703.
Cahill, Jacob W., St. John, New Brunswick, Canada. Balance-wheel and staff-fastener. No. 949,645; Feb. 15; Sp. p. 3886; Gaz. vol. 151; p. 677.
Cahill, John R., San Francisco, Cal. Concrete-slab construction. No. 973,165; Oct. 18; Sp. p. 3664; Gaz. vol. 159; p. 629.
Cahn, Carl, and E. Seeberger, Aachen, Germany. Laying conduits. No. 973,752; Oct. 25; Sp. p. 4903; Gaz. vol. 159; p. 853.
Cahoone, Edwin R., Troy, N. Y. Stove. No. 953,513; Mar. 29; Sp. p. 6319; Gaz. vol. 152; p. 1132.
Cahoone, Edwin R., Troy, N. Y. Stove. No. 955,758; Apr. 19; Sp. p. 4465; Gaz. vol. 153; p. 771.
Cahoone, Edwin R., Beechmont, Mass. Heating-grate. No. 976,039; Nov. 15; Sp. p. 4270; Gaz. vol. 160; p. 724.
Cain, J. Henry, *et al.* (See Harrison, Archer H., assignor.)
Cain, James N. (See Finlayson and Cain.)
Cain, John W., Maxton, N. C. Plow. No. 955,759; Apr. 19; Sp. p. 4468; Gaz. vol. 153; p. 771.
Cain, Leroy, Caledonia, Mich. Automatic fire-alarm. No. 979,376; Dec. 20; Sp. p. 4225; Gaz. vol. 161; p. 728.
Cain-Stevenson Company. (See Stevenson, William H., assignor.)
Caire, Philippe. (See Balachowsky and Caire.)
Cairns, John, Willenhall, South Staffs, England. Tire for wheels of vehicles. No. 948,389; Feb. 8; Sp. p. 1288; Gaz. vol. 151; p. 231.
Cairns, John, Willenhall, England. Tire of wheels of vehicles. No. 975,829; Nov. 15; Sp. p. 3861; Gaz. vol. 160; p. 652.
Cairns, Robert, Toronto, Ontario, Canada. Hydraulic pump. No. 973,473; Oct. 25; Sp. p. 4318; Gaz. vol. 159; p. 757.
Cairns, Thomas C. (See Denegre, Charles, assignor.)
Cais, Frank. (See Tran and Cais.)
Calagoz, Peter, *et al.* (See Gager, Lee E., assignor.)
Caldwell, Benjamin F. (See Opitz and Caldwell.)
Caldwell, Charles H., Portland, Oreg. Square. No. 972,330; Oct. 11; Sp. p. 1768; Gaz. vol. 159; p. 311.
Caldwell, Charles W., Roanoke, Va. Globe or chimney holder for lamp-burners. No. 975,327; Nov. 8; Sp. p. 2814; Gaz. vol. 160; p. 455.
Caldwell, Edwin D., St. Charles, Ill., assignor, by mesne assignments, to The Webb Jay Motor Company. Throttle-valve. No. 952,508; Mar. 22; Sp. p. 4137; Gaz. vol. 152; p. 762.
Caldwell, John A., Montclair, N. J. Mechanical stoker. No. 954,717; Apr. 12; Sp. p. 2198; Gaz. vol. 153; p. 383.
Caldwell, John W., Toronto, Ontario, Canada. Expansion-auger. No. 945,016; Jan. 4; Sp. p. 10; Gaz. vol. 150; p. 4.
Caldwell, Mack, Duncanville, assignor of one-fourth to J. A. Wolcott, Grand Prairie, Tex. Cotton-chopper. No. 955,115; Apr. 12; Sp. p. 3048; Gaz. vol. 153; p. 517.
Caldwell Manufacturing Company. (See Hodgkinson, Percy W., assignor.)
Caldwell Manufacturing Company. (See Prevost, Arthur J., assignor.)
Caldwell, Robert J., New Southgate, assignor, by mesne assignments, to Pfleumatic (1910) Limited, London, England. Tire for road-vehicle wheels. No. 975,207; Nov. 8; Sp. p. 2573; Gaz. vol. 160; p. 415.
Caldwell, Robert J., New Southgate, and F. Pfleumer, London, England. Manufacture of filling or stuffing material. No. 948,845; Feb. 8; Sp. p. 2260; Gaz. vol. 151; p. 383.
Caldwell, Robert J., New Southgate, and F. Pfleumer, London, England. Apparatus for use in the manufacture of elastic cellular filling material. No. 957,034; May 3; Sp. p. 1156; Gaz. vol. 154; p. 183.
Caldwell, Walter S., Cleveland, Ohio. Window and door screen. No. 975,931; Nov. 15; Sp. p. 4071; Gaz. vol. 160; p. 687.
Caldwell, Welsey A., Bradford, Ill. Portable grain-elevator. No. 970,464; Sept. 20; Sp. p. 2814; Gaz. vol. 158; p. 492.
Caldwell, William G. (See Dailey, Harry A., assignor.)
Caldwell, William H., Mallaig, Scotland. Sensitized surface or film for photographic purposes. No. 956,567; May 3; Sp. p. 125; Gaz. vol. 154; p. 23.
Caldwell, William K., Philadelphia, Pa. Head for punching five and six frame brussel-cards. No. 959,200; May 24; Sp. p. 6039; Gaz. vol. 154; p. 1009.
Cale, Robert A. G., Paris, Ontario, Canada. Wall-coating and making same. No. 969,035; Aug. 30; Sp. p. 6796; Gaz. vol. 157; p. 1184.
Calhoun, John C., Kansas City, Mo. Gas-grate deflector. No. 951,363; Mar. 8; Sp. p. 1833; Gaz. vol. 152; p. 321.
Calhoun, Van C., Paris, Ark. Automatic car-dumper. No. 978,844; Dec. 20; Sp. p. 3054; Gaz. vol. 161; p. 544.
California Cap Company. (See Oliver, Roland L., assignor.)
California Fruit Canners Association. (See Keast, Alfred J., assignor.)
California Valve and Air Brake Company. (See Neal, Spencer G., assignor.)
California Valve and Air Brake Company. (See Neal and Childress, assignors.)
California Valve and Air Brake Company, The. (See Sheasby and Neal, assignors.)
Calliga, Isaac H., Salem, Mass. Car-fender. No. 951,100; Mar. 8; Sp. p. 1296; Gaz. vol. 152; p. 237.
Call, Charles E., assignor of one-half to J. C. Clarke, Grand River, Ohio. Ironing-board. No. 949,646; Feb. 15; Sp. p. 3887; Gaz. vol. 151; p. 677.
Call, Oliver C., Springfield, Mass. Dust and air guard for windows. No. 957,493; May 10; Sp. p. 2134; Gaz. vol. 154; p. 369.
Call, Thomas J., assignor of four-tenths to W. T. Leverenz, Danville, Ill. Fastener for furniture. No. 962,939; June 28; Sp. p. 5665; Gaz. vol. 155; p. 992.
Call, Willie C. (See Hawkins, Adkins, and Call.)
Callaghan, James W., Newark, N. J. Ladle for pouring molten metal. No. 977,271; Nov. 29; Sp. p. 7042; Gaz. vol. 160; p. 1198.
Callaghan, William T. (See Lorenz and Callaghan.)
Callahan, Edward J., Salt Lake City, Utah. Briquet and making the same. No. 979,258; Dec. 20; Sp. p. 4017; Gaz. vol. 161; p. 691.
Callahan, Francis H., assignor of one-half to J. P. Clyne, New Haven, Conn. Toy. No. 960,075; May 31; Sp. p. 7931; Gaz. vol. 154; p. 1331.
Callahan, Joseph, Odon, Ind. Roll-screen holder. No. 964,209; July 12; Sp. p. 2570; Gaz. vol. 156; p. 424.

Alphabetical list of patentees—Continued.

Callahan, Lee, San Diego, Cal. Tower. No. 946,010; Jan. 11; Sp. p. 2227; Gaz. vol. 150; p. 370.

Callahan, Lee, San Diego, Cal. Process of and apparatus for producing building-work. No. 946,332; Jan. 11; Sp. p. 2907; Gaz. vol. 150; p. 482.

Callahan, Lee, San Diego, Cal., assignor, by mesne assignments, to Concrete Appliances Company, St. Louis, Mo. Material-transferring apparatus. No. 948,719; Feb. 8; Sp. p. 1994; Gaz. vol. 151; p. 341.

Callahan, Timothy F., Royersford, assignor to J. D. Sells, Philadelphia, Pa. Roller-bearing for shafts. No. 950,433; Feb. 22; Sp. p. 5592; Gaz. vol. 151; p. 980.

Callahan, William H., Utica, N. Y. Adding-machine. No. 978,111; Dec. 6; Sp. p. 1476; Gaz. vol. 161; p. 238.

Callan, Charles G., Chamberlain, Saskatchewan, Canada. Toothed bar for threshing cylinders and concaves. No. 978,692; Dec. 13; Sp. p. 2755; Gaz. vol. 161; p. 470.

Callan, John G., Lynn, Mass., assignor to General Electric Company. Means for preventing backward rotation of two-cycle engines. No. 949,994; Feb. 22; Sp. p. 4708; Gaz. vol. 151; p. 832.

Callan, John G., Lynn, Mass., assignor to General Electric Company. Governing mechanism for elastic-fluid turbines. No. 951,301; Mar. 8; Sp. p. 1699; Gaz. vol. 152; p. 301.

Callan, John G., Lynn, Mass., assignor to General Electric Company. Shaft-bearing. No. 974,119; Nov. 1; Sp. p. 24; Gaz. vol. 160; p. 7.

Callaway, David A., Pueblo, Colo. Prorating-weir. No. 947,325; Jan. 25; Sp. p. 5157; Gaz. vol. 150; p. 870.

Callaway, David A., assignor of one-third to H. G. De Tienne and one-third to L. I. Henry, Pueblo, Colo. Head-gate for irrigating-ditches. No. 947,326; Jan. 25; Sp. p. 5158; Gaz. vol. 150; p. 871.

Callaway, David A., assignor of one-fourth to H. G. De Tienne and one-fourth to L. I. Henry, Pueblo, Colo. Device for preserving eggs. No. 956,568; May 3; Sp. p. 127; Gaz. vol. 154; p. 23.

Callaway, Edward H., Westfield, N. J., assignor to The American Clay Machinery Company, Bucyrus, Ohio, and New York, N. Y. Steam-distributing apparatus for brick-driers. No. 945,219; Jan. 4; Sp. p. 441; Gaz. vol. 150; p. 73.

Callaway, Edward H., Westfield, N. J., assignor to The American Clay Machinery Company, Bucyrus, Ohio. Brick-drier. No. 948,988; Feb. 15; Sp. p. 2542; Gaz. vol. 151; p. 458.

Callaway, Edward H., Westfield, N. J., assignor to The American Clay Machinery Company, Bucyrus, Ohio. Brick-drying shed. No. 952,230; Mar. 15; Sp. p. 3566; Gaz. vol. 152; p. 641.

Callaway, Edward H., Westfield, N. J., assignor to The American Clay Machinery Company, Bucyrus, Ohio, and New York, N. Y. Portable blower for brick-kilns. No. 958,223; May 17; Sp. p. 3854; Gaz. vol. 154; p. 651.

Callaway, Edward H., Westfield, N. J., assignor to The American Clay Machinery Company, Bucyrus, Ohio. Brick-kiln furnace. No. 967,607; Aug. 16; Sp. p. 3773; Gaz. vol. 157; p. 648.

Callaway, Edward H., Westfield, N. J., assignor to The American Clay Machinery Company, Bucyrus, Ohio. Brick-kiln. No. 967,608; Aug. 16; Sp. p. 3777; Gaz. vol. 157; p. 649.

Callaway, George E., Jonesboro, La. Rotary engine. No. 962,310; June 21; Sp. p. 4347; Gaz. vol. 155; p. 750.

Callaway, James G. (See Peterson and Callaway.)

Callender, James H., Brooklyn, N. Y., assignor to F. H. Lovell & Company, Arlington, N. J. Ear for trolley-wires. No. 958,906; May 24; Sp. p. 5445; Gaz. vol. 154; p. 912.

Callery, William S., San Diego, and A. Francis, Dehesa, Cal. Portable door-lock. No. 963,419; July 5; Sp. p. 918; Gaz. vol. 156; p. 136.

Calleson, Amos. (See Adriance and Calleson.)

Calleson, Amos, assignor of one-half to B. Adriance, Brooklyn, N. Y. Bottle-cap. No. 955,380; Apr. 19; Sp. p. 3637; Gaz. vol. 153; p. 641.

Calley, Freeman A., Franklin, N. H. Apparatus for baking beans. No. 953,817; Apr. 5; Sp. p. 276; Gaz. vol. 153; p. 49.

Callier, Fred, Menfro, Mo. Window-sash. No. 958,992; May 24; Sp. p. 5599; Gaz. vol. 154; p. 941.

Callow, Herschel L. (See Callow, John and H. L.)

Callow, John and H. L., Liverpool, England. Machine for molding dough portions into loaves. No. 975,932; Nov. 15; Sp. p. 4073; Gaz. vol. 160; p. 687.

Callow, John M., Salt Lake City, Utah. Screen sizing and separating machine. No. 947,331; Jan. 25; Sp. p. 5168; Gaz. vol. 150; p. 872.

Calloway, Thomas J., Cambridge, Md. Cylinder for washing-machines. No. 956,479; Apr. 26; Sp. p. 6056; Gaz. vol. 153; p. 1050.

Caloric Fireless Cookstove Company. (See Thoets and Gronberg, assignors.) (Reissue.)

Calson, Christy, South Bend, Wash. Scaffold-chair. No. 960,501; June 7; Sp. p. 526; Gaz. vol. 155; p. 87.

Caltrider, L. C. (See Fisher, George W., assignor.) (Reissue.)

Calvert, George, London, England. Burnishing and scarifying device. No. 967,724; Aug. 16; Sp. p. 4011; Gaz. vol. 157; p. 687.

Calvin, Harry C., Dothan, Ala. Automatic time-switch. No. 970,882; Sept. 20; Sp. p. 3729; Gaz. vol. 158; p. 638.

Camarda, Antonio, New York, N. Y. Automobile fender and buffer. No. 947,674; Jan. 25; Sp. p. 5937; Gaz. vol. 150; p. 987.

Cambria Steel Company. (See Morgan, Joseph, assignor.)

Cambria Steel Company. (See Schroeder, Frederick A., assignor.)

Cambridge, Charles L., Hindsboro, Ill. Poultry-brooder. No. 976,984; Nov. 29; Sp. p. 6434; Gaz. vol. 160; p. 1098.

Cambridge Novelty Company. (See Lightbody, Frank J., assignor.)

Cambron, William B., Piedmont, Ala. Device for shaping scrapers. No. 976,630; Nov. 22; Sp. p. 5628; Gaz. vol. 160; p. 951.

Camden Anchor-Rockland Machine Co. (See Lamb, Elden P., assignor.)

Cameragraph Company, The. (See Ellis, Calvin J., assignor.)

Camerer, Arthur A. (See Herrmann, Jacob, assignor.)

Cameron, Angus C., Moose Creek, and I. Wynn, Arnprior, Ontario, Canada. Support for wagon-tongues. No. 964,210; July 12; Sp. p. 2572; Gaz. vol. 156; p. 424.

Cameron, Archibald W., Condie, Saskatchewan, Canada. Threshing-machine. No. 952,700; Mar. 22; Sp. p. 4571; Gaz. vol. 152; p. 830.

Cameron, Donald, Chicago, Ill. Washing-machine. No. 966,080; Aug. 2; Sp. p. 507; Gaz. vol. 157; p. 82.

Cameron, Everett S. (See Sword, William F., assignor.)

Cameron, Francis J., New York, N. Y. Drip-pan. No. 973,474; Oct. 25; Sp. p. 4321; Gaz. vol. 159; p. 758.

Cameron, Frederick A., assignor to G. Bohner, Chicago, Ill. Lamp. No. 954,779; Apr. 12; Sp. p. 2350; Gaz. vol. 153; p. 406.

Cameron, George W., assignor of one-half to G. and J. Muennink, Hondo, Tex. Lint-packing apparatus. No. 969,841; Sept. 13; Sp. p. 1520; Gaz. vol. 158; p. 261.

Cameron, John B., Lawrence, Mass. Wood-bending machine. No. 959,993; May 31; Sp. p. 7732; Gaz. vol. 154; p. 1303.

Cameron, S. T., *et al.*, trustees. (See Mann, William B., assignor.)

Camier, Thomas L., Brooklyn, N. Y. Milk-bottle. No. 945,220; Jan. 4; Sp. p. 445; Gaz. vol. 150; p. 74.

Caminada, Pietro, Rome, Italy. Tubular inclined ship-lock. No. 955,317; Apr. 19; Sp. p. 3494; Gaz. vol. 153; p. 620.

Camp, Charles D. (See Hodgkinson, Percy W., assignor.)

Camp, Christian W., Metamora, Ill. Grain-distributer. No. 946,201; Jan. 11; Sp. p. 2619; Gaz. vol. 150; p. 435.

Camp, Paul R., and T. J. Eubanks, Marietta, assignors to Hudson Stick Candy Machine Co., Atlanta, Ga. Apparatus for cooling candy-sticks. No. 963,513; July 5; Sp. p. 1099; Gaz. vol. 156; p. 168.

Camp, Thomas N., Powder Springs, Ga. Gin-feed-actuating device. No. 969,337; Sept. 6; Sp. p. 390; Gaz. vol. 158; p. 63.

Campbell, Andrew C., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Reverse-feed for heading-machines. No. 959,453; May 31; Sp. p. 6545; Gaz. vol. 154; p. 1119.

Campbell, Andrew C., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Machine for heading metal blanks. No. 959,454; May 31; Sp. p. 6548; Gaz. vol. 154; p. 1119.

Campbell, Andrew C., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Blank-feed for metal heading, punching, and trimming machines. No. 959,455; May 31; Sp. p. 6552; Gaz. vol. 154; p. 1119.

Campbell, Andrew C., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Blank-feed mechanism. No. 959,918; May 31; Sp. p. 7556; Gaz. vol. 154; p. 1276.

Campbell, Andrew C., and N. W. Cummins, assignors to The E. J. Manville Machine Company, Waterbury, Conn. Feed mechanism for heading-machines. No. 959,456; May 31; Sp. p. 6555; Gaz. vol. 154; p. 1120.

Campbell, Andrew R., Saskatoon, Saskatchewan, Canada. Massager. No. 948,005; Feb. 1; Sp. p. 467; Gaz. vol. 151; p. 76.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Brake for railway-cars. No. 963,861; July 12; Sp. p. 1876; Gaz. vol. 156; p. 308.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Hopper dump-car. No. 963,862; July 12; Sp. p. 1878; Gaz. vol. 156; p. 308.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Gravel dump-car. No. 963,863; July 12; Sp. p. 1880; Gaz. vol. 156; p. 309.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 964,749; July 19; Sp. p. 3837; Gaz. vol. 156; p. 639.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 973,753; Oct. 25; Sp. p. 4904; Gaz. vol. 159; p. 853.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 974,470; Nov. 1; Sp. p. 910; Gaz. vol. 160; p. 134.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 974,471; Nov. 1; Sp. p. 912; Gaz. vol. 160; p. 135.

Alphabetical list of patentees—Continued.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway dump-car. No. 974,642; Nov. 1; Sp. p. 1285; Gaz. vol. 160; p. 198.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 977,433; Dec. 6; Sp. p. 13; Gaz. vol. 161; p. 5.
Campbell, Bartley J., Joliet, Ill. Gate. No. 976,119; Nov. 15; Sp. p. 4436; Gaz. vol. 160; p. 752.
Campbell, Benjamin F., Placerville, Colo. Railway-tie. No. 969,459; Sept. 6; Sp. p. 638; Gaz. vol. 158; p. 102.
Campbell, Charles A. R., San Antonio, Tex. Bat-roost. No. 950,508; Mar. 1; Sp. p. 101; Gaz. vol. 152; p. 17.
Campbell, Charles E., *et al.* (See Wilkins, Albert A., assignor.)
Campbell, Charles H. (See Campbell, Joseph H. and C. H.)
Campbell, Charles W. (See Studnicka and Campbell.)
Campbell, Colin, Rutherford, N. J. Furnace-arch construction. No. 957,494; May 10; Sp. p. 2135; Gaz. vol. 154; p. 369.
Campbell Company, The. (See Stewart, Charles C., assignor.)
Campbell, David B., Butler, Pa. Derrick and masts for oil-well riggings. No. 947,034; Jan. 18; Sp. p. 4521; Gaz. vol. 150; p. 745.
Campbell, Donald, New York, N. Y. Toy or game. No. 975,119; Nov. 8; Sp. p. 2358; Gaz. vol. 160; p. 384.
Campbell, Frederick R., *et al.* (See Wilkins, Albert A., assignor.)
Campbell, George A. (See Mitchell and Campbell.)
Campbell, George E., Chattanooga, Tenn. Sawmill-carriage. No. 958,593; May 17; Sp. p. 4743; Gaz. vol. 154; p. 779.
Campbell, George L., and H. G. Davis, assignors to Electric Press Bulletin Company, Williamsport, Pa. Telegraph bulletin-printer. No. 950,473; Mar. 1; Sp. p. 13; Gaz. vol. 152; p. 5.
Campbell, George P., Schenectady, N. Y. Steam-heating apparatus. No. 946,333; Jan. 11; Sp. p. 2909; Gaz. vol. 150; p. 482.
Campbell, Hanes L. (See Campbell, John E. and H. L.)
Campbell, Harry A., River Falls, Wis. Grain-separator. No. 945,487; Jan. 4; Sp. p. 1044; Gaz. vol. 150; p. 161.
Campbell, Henry A., Rolette, N. D. Harrow. No. 972,057; Oct. 4; Sp. p. 1190; Gaz. vol. 159; p. 201.
Campbell, James A., Paterson, N. J. Means for protecting freight-cars and the like from entry. No. 975,508; Nov. 15; Sp. p. 3192; Gaz. vol. 160; p. 543.
Campbell, James L., Lowell, Mass., assignor to American Mason Safety Tread Company, Saco, Me. Non-slipping tread-plug. No. 958,363; May 17; Sp. p. 4294; Gaz. vol. 154; p. 701.
Campbell, James M., Joplin, Mo. Gear-cutting attachment for lathes. No. 955,498; Apr. 19; Sp. p. 3888; Gaz. vol. 153; p. 683.
Campbell, James R., Scottdale, Pa. Washing coal. No. 945,692; Jan. 4; Sp. p. 1460; Gaz. vol. 150; p. 228.
Campbell, James S., Camden, Ill. Currycomb. No. 971,171; Sept. 27; Sp. p. 4333; Gaz. vol. 158; p. 760.
Campbell, James W., Germantown, N. Y., assignor to Ferguson Bros. Mfg. Co., Hoboken, N. J. Knockdown desk. No. 968,920; Aug. 30; Sp. p. 6574; Gaz. vol. 157; p. 1145.
Campbell, John, Harrisburg, Pa. Bedclothes-holder. No. 972,159; Oct. 11; Sp. p. 1414; Gaz. vol. 159; p. 254.
Campbell, John B., San Francisco, Cal. Method of and apparatus for building masonry walls in shifting soils. No. 974,023; Oct. 25; Sp. p. 5473; Gaz. vol. 159; p. 948.
Campbell, John E., Charleston, W. Va. Bottle. No. 948,919; Feb. 8; Sp. p. 2394; Gaz. vol. 151; p. 407.
Campbell, John E. and H. L., Whiteville, N. C. Cotton-chopper. No. 968,831; Aug. 30; Sp. p. 6389; Gaz. vol. 157; p. 1114.
Campbell, John H., Ripley, Ohio. Insulator. No. 972,994; Oct. 18; Sp. p. 3276; Gaz. vol. 159; p. 570.
Campbell, John L. (See Turner and Campbell.)
Campbell, John R. (See Converse, William E., assignor.)
Campbell, John W., Colorado Springs, Colo. Buffer. No. 971,970; Oct. 4; Sp. p. 1027; Gaz. vol. 159; p. 171.
Campbell, Joseph H., New York, N. Y., and C. H. Campbell, Philadelphia, Pa., assignors to National Nutrient Company, Jersey City, N. J. Desiccating apparatus. No. 956,038; Apr. 26; Sp. p. 5076; Gaz. vol. 153; p. 898.
Campbell, Joseph M., Memphis, Tenn. Fence-post. No. 957,410; May 10; Sp. p. 1969; Gaz. vol. 154; p. 341.
Campbell-Kingsley Manufacturing Company, The. (See Currie, Otis C., assignor.)
Campbell, Knotley F. (See Edge and Campbell.)
Campbell, Leon J., Chicago, Ill. Seal-lock. No. 960,271; June 7; Sp. p. 64; Gaz. vol. 155; p. 14.
Campbell, Leon J., assignor to Chicago Car Seal Company, Chicago, Ill. Closure for bottle, jars, &c. No. 945,444; Jan. 4; Sp. p. 940; Gaz. vol. 150; p. 148.
Campbell, Leonard H., Providence, R. I. School-desk. No. 967,609; Aug. 16; Sp. p. 3779; Gaz. vol. 157; p. 649.
Campbell, Lute E., assignor of one-half to L. W. Lindsey, Tulsa, Okla. Railway-spike. No. 950,040; Feb. 22; Sp. p. 4827; Gaz. vol. 151; p. 848.
Campbell, M. G. (See Clark and Campbell.)
Campbell, Malcolm, assignor to Woonsocket Machine and Press Company, Woonsocket, R. I. Slubber or fly-frame. No. 976,545; Nov. 22; Sp. p. 5454; Gaz. vol. 160; p. 921.
Campbell Printing Press & Manufacturing Company, The. (See Johnston, Robert T., assignor.)
Campbell Printing Press & Manufacturing Company, The. (See Robertson, Charles J., assignor.)
Campbell Printing Press & Manufacturing Company. (See Wood, Henry A. W., assignor.)
Campbell, Richard, Liverpool, England. Furnace-grate and fire-bar. No. 953,514; Mar. 29; Sp. p. 6322; Gaz. vol. 152; p. 1133.
Campbell, Robert L. (See Campbell, William J., assignor.)
Campbell, Samuel L., Prairie City, Oreg. Telephone-repeater. No. 975,933; Nov. 15; Sp. p. 4079; Gaz. vol. 160; p. 688.
Campbell, Sheldon S. S., Collinsville, Conn. Hypodermic-syringe case. No. 945,118; Jan. 4; Sp. p. 228; Gaz. vol. 150; p. 39.
Campbell, William A., Oakland, Cal. Skid. No. 962,815; June 28; Sp. p. 5437; Gaz. vol. 155; p. 950.
Campbell, William B., Toppenish, Wash. Submerged water-wheel. No. 948,105; Feb. 1; Sp. p. 680; Gaz. vol. 151; p. 110.
Campbell, William J., assignor of one-half to R. L. Campbell, Dayton, Va. Thill-tug. No. 948,780; Feb. 8; Sp. p. 2128; Gaz. vol. 151; p. 362.
Campbell, William R. (See Frink and Campbell.)
Campbell, William R., Charleston, S. C. Shoe-polish bottle. No. 979,377; Dec. 20; Sp. p. 4226; Gaz. vol. 161; p. 728.
Campfield, Edwin M., assignor to The Campfield Raggle Block Company, Richmond, Ind. Building-block. No. 969,036; Aug. 30; Sp. p. 6797; Gaz. vol. 157; p. 1184.
Campfield Raggle Block Company, The. (See Campfield, Edwin M., assignor.)
Campisi, Joseph, *et al.* (See De Bosco, Charles P., assignor.)
Campo, Luigi, New York, N. Y. Smoking-filter for the removal of the impurities from tobacco-smoke. No. 964,489; July 19; Sp. p. 3153; Gaz. vol. 156; p. 548.
Camps, Louis D., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Attachment for writing-machines. No. 955,846; Apr. 26; Sp. p. 4662; Gaz. vol. 153; p. 830.
Campus, Cesare, New York, N. Y. Cigarette-box. No. 953,318; Mar. 29; Sp. p. 5883; Gaz. vol. 152; p. 1062.
Campus, Cesare, New York, N. Y. Box for cigarettes, cigars, or tobacco. No. 964,211; July 12; Sp. p. 2574; Gaz. vol. 156; p. 424.
Canada, George B., Halls, Tenn. Harrow. No. 965,686; July 26; Sp. p. 5821; Gaz. vol. 156; p. 989.
Canaday, William R., assignor of one-half to G. B. Ward, Fairview, Okla. Land-roller. No. 962,311; June 21; Sp. p. 4351; Gaz. vol. 155; p. 751.
Canadian Taylor Automatic Fire Alarm and Call Bell Company, The. (See Field, James H., assignor.)
Canavan, Edward A., Duluth, Minn. Burglar-alarm. No. 963,118; July 5; Sp. p. 241; Gaz. vol. 156; p. 32.
Candee, Joseph S., Buffalo, N. Y. Closet-joint. No. 952,602; Mar. 22; Sp. p. 4358; Gaz. vol. 152; p. 796.
Candle, Melven A., Dawson, N. Mex. Mail-receiving device. No. 973,166; Oct. 18; Sp. p. 3665; Gaz. vol. 159; p. 629.
Candler, George V., Detroit, Mich. Radiator. No. 976,147; Nov. 22; Sp. p. 4521; Gaz. vol. 160; p. 784.
Candler, Washington W. (See Cole and Candler.)
Cane, Robert W., Cleveland, Okla. Oil-burner. No. 950,041; Feb. 22; Sp. p. 4829; Gaz. vol. 151; p. 849.
Canfield, Harry R. (See Soss, Joseph, assignor.)
Canfield, Harry R., New York, N. Y., assignor to N. J. Savage, Newark, N. J. Coin-operated vending-machine. No. 966,734; Aug. 9; Sp. p. 1926; Gaz. vol. 157; p. 326.
Canfield, Harry R., New York, N. Y., assignor to N. J. Savage, Newark, N. J. Coin-operated vending-machine. No. 966,795; Aug. 9; Sp. p. 2085; Gaz. vol. 157; p. 347.
Canfield, Lee, Sparta, Wis. Reversing-gearing. No. 973,915; Oct. 25; Sp. p. 5252; Gaz. vol. 159; p. 910.
Canfield, William O., Chattanooga, Tenn. Floor finishing and polishing machine. No. 976,040; Nov. 15; Sp. p. 4272; Gaz. vol. 160; p. 725.
Canham, Victor H., Guelph, Ontario, Canada. Spool-holder. No. 972,160; Oct. 11; Sp. p. 1415; Gaz. vol. 159; p. 254.
Canham, Victor H., Guelph, Ontario, Canada. Hemmer-guide. No. 972,995; Oct. 18; Sp. p. 3277; Gaz. vol. 159; p. 570.
Canida, Alonzo C., assignor of one-half to L. Deutschle, Cincinnati, Ohio. Coil-protector for coolers. No. 949,216; Feb. 15; Sp. p. 2999; Gaz. vol. 151; p. 532.
Canine, Chester W., Cincinnati, Ohio. Inking device. No. 968,537; Aug. 30; Sp. p. 5754; Gaz. vol. 157; p. 1013.
Canivan, Thomas J., Honesdale, Pa. Chimney protector or shield. No. 957,544; May 10; Sp. p. 2239; Gaz. vol. 154; p. 387.
Cann, Annie K., Watkins, Colo. Covering for mouth-pieces of telephone-transmitters. No. 970,015; Sept. 13; Sp. p. 1889; Gaz. vol. 158; p. 321.

Alphabetical list of patentees—Continued.

Cannady, William J., Detroit, Mich. Clamping device. No. 975,934; Nov. 15; Sp. p. 4081; Gaz. vol. 160; p. 688.
Cannan, James R. (See Kindlespire and Cannan.)
Cannes, Elie, New York, N. Y. Reinforcing-frame for concrete construction. No. 963,685; July 5; Sp. p. 1436; Gaz. vol. 156; p. 226.
Canning, Michael. (See Terril and Canning.)
Cannon, Charles R. (See Bushnell, Philip S., assignor.)
Cannon, Charles R., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Rust-cleaner. No. 976,342; Nov. 22; Sp. p. 5009; Gaz. vol. 160; p. 850.
Cannon, Corodon S., Battle Creek, Mich. Blue-flame oil-stove. No. 979,646; Dec. 27; Sp. p. 4814; Gaz. vol. 161; p. 845.
Cannon, Edward F., Portland, Oreg. Display apparatus. No. 958,475; May 17; Sp. p. 4517; Gaz. vol. 154; p. 740.
Cannon, Edward F., Portland, Oreg. Tree-felling saw. No. 973,258; Oct. 18; Sp. p. 3859; Gaz. vol. 159; p. 660.
Cannon, Francis, M., McKeesport, Pa. Lubricator. No. 951,234; Mar. 8; Sp. p. 1554; Gaz. vol. 152; p. 279.
Cannon, Percival C., assignor to M. S. Napier and S. F. Edge, London, England. Carbureter. No. 973,855; Oct. 25; Sp. p. 5118; Gaz. vol. 159; p. 889.
Canode, Frederick B., Chicago, Ill. Grinding-mill. No. 946,107; Jan. 11; Sp. p. 2415; Gaz. vol. 150; p. 402.
Canton Culvert Company, The. (See Schlafly, Julius H., assignor.)
Canton Foundry and Machine Company. (See Slentz, Albertus O., assignor.)
Cantor, Jacob A., *et al.* (See Lacroix, Fred, assignor.)
Capel, Paul S., Shreveport, La. Automatic cut-off. No. 966,997; Aug. 9; Sp. p. 2514; Gaz. vol. 157; p. 413.
Capen, Joseph S., Stoughton, Mass. Rubber. No. 960,814; June 7; Sp. p. 1166; Gaz. vol. 155; p. 194.
Capen, Joseph S., Stoughton, Mass. Rubber shoe. No. 972,996; Oct. 18; Sp. p. 3278; Gaz. vol. 159; p. 571.
Capen, Thomas W., assignor to Allis-Chalmers Company, Milwaukee, Wis. Packing for grinding-mills. No. 945,303; Jan. 4; Sp. p. 646; Gaz. vol. 150; p. 101.
Capewell, William C., Hotchkissville, Conn. Flying toy. No. 962,743; June 28; Sp. p. 5294; Gaz. vol. 155; p. 924.
Capocefalo, Edward A. (See Hennessy and Capocefalo.)
Cappon, Jesse, and J. A. Schantz, Milwaukee, Wis. Gas apparatus. No. 971,019; Sept. 27; Sp. p. 3994; Gaz. vol. 158; p. 710.
Capra, Benedetto, Los Angeles, Cal. Combination car-step and gate. No. 975,017; Nov. 8; Sp. p. 2136; Gaz. vol. 160; p. 348.
Capron, Adoniram M., Bridgeport, Nebr. Hame attachment. No. 960,272; June 7; Sp. p. 65; Gaz. vol. 155; p. 14.
Capron, Seth A., Westfield, Mass. Apparatus for washing sand and like material. No. 978,693; Dec. 13; Sp. p. 2757; Gaz. vol. 161; p. 470.
Caps, John E., Wilmette, Ill. Chemical-feeding device. No. 976,148; Nov. 22; Sp. p. 4522; Gaz. vol. 160; p. 784.
Caps, John E., assignor of one-half to C. A. Cartwright, Chicago, Ill. Steam-condenser, water-heater, and oil-separator. No. 949,217; Feb. 15; Sp. p. 3001; Gaz. vol. 151; p. 533.
Capwell, Vernon L., assignor to The Rotary Engine and Valve Developing Company, Dorranceton, Pa. Rotary engine. No. 972,598; Oct. 11; Sp. p. 2378; Gaz. vol. 159; p. 406.
Caraway, James M., Longmont, Colo. Loading apparatus. No. 950,593; Mar. 1; Sp. p. 268; Gaz. vol. 152; p. 44.
Carb-Ox Company. (See Hays, Joseph W., assignor.)
Carbonating Company of America, The. (See Murphy, John C., assignor.)
Carbone-Licht-Gesellschaft m. b. H. (See Carbone, Tito L., assignor.)
Carbone, Tito L., Charlottenburg, Germany. Arc-lamp. No. 975,935; Nov. 15; Sp. p. 4083; Gaz. vol. 160; p. 688.
Carbone, Tito L., assignor to Carbone-Licht-Gesellschaft m. b. H., Berlin, Germany. Clutch arrangement for arc-lamps. No. 967,323; Aug. 16; Sp. p. 3187; Gaz. vol. 157; p. 552.
Carbonell, Ramón T., Barcelona, Spain. Machine for the production of jacquard-cards. No. 979,128; Dec. 20; Sp. p. 3730; Gaz. vol. 161; p. 646.
Carborundum Company, The. (See Higgins, Francis W., assignor.)
Carborundum Company. (See Tone, Frank J., assignor.)
Card, George F., Three Rivers, Mich. Recording device. No. 962,492; June 28; Sp. p. 4757; Gaz. vol. 155; p. 838.
Cardarelli, Emilio, assignor of one-third to W. I. Oliver, Boston, Mass. Down-spout. No. 974,550; Nov. 1; Sp. p. 1099; Gaz. vol. 160; p. 165.
Cardell, Charles O. L., Pearl River, N. Y. Belt-fastener. No. 949,519; Feb. 15; Sp. p. 3644; Gaz. vol. 151; p. 634.
Cardell, Olof, and S. T. Bergström, Gottenborg, Sweden. Sealing device for bottles. No. 946,334; Jan. 11; Sp. p. 2912; Gaz. vol. 150; p. 482.
Cardinet, Albert D., Fruitvale, Cal., assignor to Cardinet Fountain Brush Company. Fountain-brush. No. 965,075; July 19; Sp. p. 4502; Gaz. vol. 156; p. 749.
Cardinet Fountain Brush Company. (See Cardinet, Albert D., assignor.)
Cardwell, Harry, Manchester, England. Machine for finishing twine. No. 955,943; Apr. 26; Sp. p. 4880; Gaz. vol 153; p. 863.
Cardwell, James R., Chicago, Ill. Car construction. No. 960,502; June 7; Sp. p. 527; Gaz. vol. 155; p. 88.
Carey, Charles W., assignor to Carey Manufacturing Company, Chicago, Ill. Bottle-capping device. No. 979,378; Dec. 20; Sp. p. 4227; Gaz. vol. 161; p. 728.
Carey, George B. (See Hallahan, John P., assignor.)
Carey, John B., Roslyn, N. Y. Stone-boat. No. 966,164; Aug. 2; Sp. p. 695; Gaz. vol. 157; p. 109.
Carey Manufacturing Company. (See Carey, Charles W., assignor.)
Carey, Robert, Wimbledon, London, assignor of one-half to R. Waygood & Company, Limited, London, England. Luffing-crane. No. 951,433; Mar. 8; Sp. p. 1975; Gaz. vol. 152; p. 344.
Carey, William E., Cambridge, Md. Gearing for sawmills. No. 964,750; July 19; Sp. p. 3839; Gaz. vol. 156; p. 639.
Carey, William L., Upland, Ind. Three-horse equalizer. No. 976,149; Nov. 22; Sp. p. 4523; Gaz. vol. 160; p. 784.
Cargill, Lawrence W., Columbus, Ohio. Concrete-mixing machine. No. 970,419; Sept. 13; Sp. p. 2701; Gaz. vol. 158; p. 456.
Carhart, John W., Austin, Tex. Vehicle-tire. No. 959,457; May 31; Sp. p. 6557; Gaz. vol. 154; p. 1120.
Caribonum Company Limited. (See Hardman, George E., assignor.)
Carichoff, Eugene R. (See White and Carichoff.)
Carichoff, Eugene R., East Orange, N. J., assignor to General Electric Company. Motor-control system. No. 949,995; Feb. 22; Sp. p. 4709; Gaz. vol. 151; p. 832.
Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Electrically-controlled switch. No. 953,369; Mar. 29; Sp. p. 6011; Gaz. vol. 152; p. 1081.
Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 964,751; July 19; Sp. p. 3840; Gaz. vol. 156; p. 640.
Carignan, Joseph E. (See Jetté, Bellemare, Jette, and Carignan.)
Carl, Elisabeth P., assignor of one-half to L. M. Carl, Chicago, Ill. Window. No. 949,973; Feb. 22; Sp. p. 4620; Gaz. vol. 151; p. 825.
Carl, Louis M. (See Carl, Elisabeth P., assignor.)
Carl, Rudolf, Buffalo, N. Y. Last. No. 969,244; Sept. 6; Sp. p. 204; Gaz. vol. 158; p. 34.
Carlberg, Carl S., and T. E. Ryan, Minneapolis, Minn. Apparatus for making dental castings. No. 949,391; Feb. 15; Sp. p. 3399; Gaz. vol. 151; p. 593.
Carle, Charles S., Portland, Me. Guard for shoe-stitching machines. No. 959,713; May 31; Sp. p. 7097; Gaz. vol. 154; p. 1205.
Carle, Fredrick, New York, N. Y. Plumber's vise. No. 956,039; Apr. 26; Sp. p. 5085; Gaz. vol. 153; p. 898.
Carle, Louis F., Courbevoie, France. Tool for putting on and removing pneumatic tires. No. 965,076; July 19; Sp. p. 4503; Gaz. vol. 156; p. 749.
Carlen, John, Havana, N. D. Concrete-mold. No. 978,845; Dec. 20; Sp. p. 3055; Gaz. vol. 161; p. 544.
Carleton, Charles A., Cumberland Mills, assignor of one-half to W. G. McClintock, Booth Bay Harbor, Me. Furnace. No. 969,745; Sept. 6; Sp. p. 1275; Gaz. vol. 158; p. 204.
Carleton, Charles T., Portales, N. Mex. Yoke for cattle. No. 977,928; Dec. 6; Sp. p. 1099; Gaz. vol. 161; p. 175.
Carley, Alfred G. (See Norton, Leonard M., assignor.)
Carley, Claud G., Colorado, Tex. Reboiler. No. 969,037; Aug. 30; Sp. p. 6799; Gaz. vol. 157; p. 1185.
Carlgren, Knut W., Salt Lake City, Utah. Automatic train-stop. No. 949,145; Feb. 15; Sp. p. 2878; Gaz. vol. 151; p. 509.
Carlin, William, *et al.* (See Loudenslager, William J., assignor.)
Carlisle, Thomas F., Providence, R. I., assignor to The Improved Seamless Wire Company. Making seamless wire. No. 978,846; Dec. 20; Sp. p. 3056; Gaz. vol. 161; p. 544.
Carlisle, Thomas F., Providence, R. I., assignor to The Improved Seamless Wire Company. Wire for ornamental chains. No. 978,847; Dec. 20; Sp. p. 3057; Gaz. vol. 161; p. 544.
Carlisle, Thomas O., Monongahela, Pa. Cut-off for fans. No. 960,815; June 7; Sp. p. 1168; Gaz. vol. 155; p. 194.
Carll, Addison B., Jacksonville, Fla. Wrench. No. 953,515; Mar. 29; Sp. p. 6323; Gaz. vol. 152; p. 1133.
Carll, Addison B., Mobile, Ala. Adjustable tap. No. 978,005; Dec. 6; Sp. p. 1257; Gaz. vol. 161; p. 201.
Carlson, Adolph G., Chicago, Ill., assignor of one-half to F. H. Fitch, Pittsburg, Kans. Cash-register. No. 959,840; May 31; Sp. p. 7379; Gaz. vol. 154; p. 1250.
Carlson, Alfred, Klamath Falls, Oreg. Gearing. No. 967,324; Aug. 16; Sp. p. 3188; Gaz. vol. 157; p. 552.
Carlson, Alfred, Klamath Falls, Oreg. Wind-wheel electric generator. No. 967,325; Aug. 16; Sp. p. 3190; Gaz. vol. 157; p. 552.
Carlson, Alfred, assignor of one-half to National Furniture Company, Jamestown, N. Y. Pedestal-table lock. No. 947,278; Jan. 25; Sp. p. 5044; Gaz. vol. 150; p. 853.
Carlson, Benjamin A., and W. D. Hart, Sioux Falls, S. D. Combined digger and scraper. No. 976,631; Nov. 22; Sp. p. 5629; Gaz. vol. 160; p. 951.

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Carlson, Carl J. E., Minneapolis, Minn., assignor of one-half to W. Sears, Brookline, Mass. Check-valve for sewers. No. 961,286; June 14; Sp. p. 2134; Gaz. vol. 155; p. 383.
Carlson, Carl P., deceased, Längbron, Dingelvik, Sweden; E. Carlson, executrix, assignor of one-half to Joseph H. Wallace & Company, New York, N. Y. Soda-lye evaporator. No. 964,390; July 12; Sp. p. 2935; Gaz. vol. 156; p. 485.
Carlson, Charles A., Kokomo, Ind. Needle-awl. No. 971,663; Oct. 4; Sp. p. 317; Gaz. vol. 159; p. 57.
Carlson, Charles A., Brooklyn, N. Y., assignor to Carlson Motor & Truck Company, Philadelphia, Pa. Machine element. No. 970,791; Sept. 20; Sp. p. 3552; Gaz. vol. 158; p. 607.
Carlson, Charles A., Brooklyn, N. Y., assignor to Carlson Motor & Truck Company, Philadelphia, Pa. Transmission-gearing. No. 970,792; Sept. 20; Sp. p. 3554; Gaz. vol. 158; p. 608.
Carlson, Charles A., Brooklyn, N. Y., assignor to Carlson Motor & Truck Company, Philadelphia, Pa. Shaft-coupling. No. 970,793; Sept. 20; Sp. p. 3556; Gaz. vol. 158; p. 608.
Carlson, Charles A., Brooklyn, N. Y., assignor to Carlson Motor & Truck Company, Philadelphia, Pa. Governing means for internal-combustion engines. No. 970,794; Sept. 20; Sp. p. 3558; Gaz. vol. 158; p. 609.
Carlson, Charles A., Brooklyn, N. Y., assignor to Carlson Motor & Truck Company, Philadelphia, Pa. Motor-vehicle. No. 974,745; Nov. 1; Sp. p. 1516; Gaz. vol. 160; p. 232.
Carlson, Charles A., Brooklyn, N. Y., assignor to Carlson Motor & Truck Company, Philadelphia, Pa. Motor-vehicle. No. 974,746; Nov. 1; Sp. p. 1518; Gaz. vol. 160; p. 233.
Carlson, Charles A., Brooklyn, A. E. Osborn, New York, and J. C. Angelino, Brooklyn, N. Y., assignors to Carlson Motor & Truck Company, Philadelphia, Pa. Transmission-gearing. No. 970,790; Sept. 20; Sp. p. 3545; Gaz. vol. 158; p. 607.
Carlson, Ebba, executrix. (See Carlson, Carl P.)
Carlson, Frank A., assignor of one-half to L. D. Rhodes, Wichita Falls, Tex. Strap-fastener. No. 950,434; Feb. 22; Sp. p. 5594; Gaz. vol. 151; p. 981.
Carlson, Frank E., Brooklyn, N. Y. Boiler-tube cleaner. No. 966,998; Aug. 9; Sp. p. 2515; Gaz. vol. 157; p. 414.
Carlson, Frank W., Chicago, Ill. Closet connection. No. 962,621; June 28; Sp. p. 5043; Gaz. vol. 155; p. 882.
Carlson, Gabriel, Springfield, Mass. Grinding-mill. No. 959,714; May 31; Sp. p. 7098; Gaz. vol. 154; p. 1205.
Carlson, Gust, Jamestown, N. Y. Metal door. No. 970,985; Sept. 20; Sp. p. 3925; Gaz. vol. 158; p. 671.
Carlson, Gustaf, De Kalb, Ill. Folding umbrella. No. 974,643; Nov. 1; Sp. p. 1287; Gaz. vol. 160; p. 198.
Carlson, Gustaf A., New York, N. Y. Graining-machine. No. 963,989; July 12; Sp. p. 2143; Gaz. vol. 156; p. 349.
Carlson, Gustav A., Gladstone, Oreg. Clamp. No. 966,426; Aug. 9; Sp. p. 1211; Gaz. vol. 157; p. 220.
Carlson, Gustave, Plainfield, assignor to Ransome Concrete Machinery Company, Dunellen, N. J. Concrete-mixer. No. 968,739; Aug. 30; Sp. p. 6210; Gaz. vol. 157; p. 1085.
Carlson, Gustie A., Buda, Nebr. Car-door. No. 956,758; May 3; Sp. p. 557; Gaz. vol. 154; p. 89.
Carlson, Isac O., Chicago, Ill. Coin-controlled mechanism. No. 951,434; Mar. 8; Sp. p. 1979; Gaz. vol. 152; p. 344.
Carlson, John A., Chicago, Ill. Windmill. No. 969,522; Sept. 6; Sp. p. 791; Gaz. vol. 158; p. 124.
Carlson, John C. (See Anderson, Severin B., assignor.)
Carlson, John E., Bingham Canyon, Utah. Picture-frame. No. 964,391; July 12; Sp. p. 2936; Gaz. vol. 156; p. 485.
Carlson Motor & Truck Company. (See Carlson, Charles A., assignor.)
Carlson Motor & Truck Company. (See Carlson, Osborn, and Angelino, assignors.)
Carlson Motor & Truck Company. (See Haywood, Daniel H., assignor.)
Carlson Motor & Truck Company. (See Osborn, Alden E., assignor.)
Carlson, Victor. (See Wagner, Marion A., assignor.)
Carlson, Walter C., Milwaukee, Wis., assignor to C. W. Hobbs, Worcester, Mass. Box-covering and corner-staying machine. No. 961,841; June 21; Sp. p. 3321; Gaz. vol. 155; p. 591.
Carlton, Cortland, Kansas City, Mo. Perforating-shear. No. 968,121; Aug. 23; Sp. p. 4859; Gaz. vol. 157; p. 843.
Carlton, Harry, Sapulpa, Okla. Automatic valve. No. 975,120; Nov. 8; Sp. p. 2360; Gaz. vol. 160; p. 385.
Carlton, Robert E., Latonia, Ky. Adjustable wardrobe-bed. No. 947,730; Jan. 25; Sp. p. 6033; Gaz. vol. 150; p. 1005.
Carmack, James H., assignor of one-half to C. L. Rose, Oklahoma, Okla. Street-sprinkling system. No. 965,077; July 19; Sp. p. 4504; Gaz. vol. 156; p. 749.
Carmak, Hugo, Paducah, Ky. Rail-joint chair. No. 962,312; June 21; Sp. p. 4352; Gaz. vol. 155; p. 751.
Carman, Frank V., Oakland, Cal. Box-car door. No. 964,899; July 19; Sp. p. 4149; Gaz. vol. 156; p. 691.
Carman Manufacturing Company. (See Taylor, William M., assignor.)
Carmean, John M., Marshalltown, Iowa. Hollow tile. No. 955,847; Apr. 26; Sp. p. 4665; Gaz. vol. 153; p. 831.
Carmer, James R., Wilmington, Del. Uncoupling device for car-couplings. No. 948,205; Feb. 1; Sp. p. 870; Gaz. vol. 151; p. 143.
Carmer, James R., Wilmington, Del. Bolster construction for railway-cars. No. 970,302; Sept. 13; Sp. p. 2482; Gaz. vol. 158; p. 418.
Carmer, James R., Wilmington, Del. Bolster construction for railway-cars. No. 970,303; Sept. 13; Sp. p. 2483; Gaz. vol. 158; p. 418.
Carmer, James R., Wilmington, Del. Hand brake mechanism. No. 979,379; Dec. 20; Sp. p. 4228; Gaz. vol. 161; p. 729.
Carmichael, David, *et al.* (See Loudenslager, William J., assignor.)
Carmichael, Dwight B. (See Boyse, Clement W., assignor.)
Carmichael, Joseph D., Fairmont, Nebr. Perch for fowls. No. 966,523; Aug. 9; Sp. p. 1482; Gaz. vol. 157; p. 254.
Carmody, Michael B. (See Crawford and Carmody.)
Carmony, Harry E., Shelbyville, Ind. Mail-box. No. 969,038; Aug. 30; Sp. p. 6800; Gaz. vol. 157; p. 1185.
Carnahan, J. Worth, *et al.* (See Berntson, Thomas, assignor.)
Carnegie, Alfred Q. (See Parsons, Stoney, Carnegie, and Bowerbank.)
Carnegie Steel Company. (See Davis, Cleland, assignor.)
Carnegie Steel Company, The. (See Wales, Samuel S., assignor.)
Carnell, Ambrose S., New York, N. Y. Coin-controlled apparatus. No. 967,725; Aug. 16; Sp. p. 4012; Gaz. vol. 157; p. 687.
Carnes, John P., Coldspring, Tex. Wire-stretcher. No. 953,257; Mar. 29; Sp. p. 5766; Gaz. vol. 152; p. 1044.
Carney, Edward D., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Coin-controlled actuating mechanism for autopneumatic pianos. No. 974,355; Nov. 1; Sp. p. 639; Gaz. vol. 160; p. 95.
Carney, Frank D., and C. J. Gadd, Steelton, assignors to The Pennsylvania Steel Company, Philadelphia, Pa. Testing-machine. No. 955,250; Apr. 19; Sp. p. 3361; Gaz. vol. 153; p. 599.
Carney, Frank D., and C. J. Gadd, Steelton, assignors to The Pennsylvania Steel Company, Philadelphia, Pa. Testing-machine. No. 955,630; Apr. 19; Sp. p. 4177; Gaz. vol. 153; p. 728.
Carney, Harry H., Portland, Oreg. Drum-tightener. No. 967,726; Aug. 16; Sp. p. 4014; Gaz. vol. 157; p. 688.
Carney, Lewis J., Boston, assignor, by mesne assignments, of one-half to R. Chapman, Jr., Newton, Mass., and one-half to H. T. Chapman, Saybrook, Conn. Ventilator. No. 950,995; Mar. 1; Sp. p. 1102; Gaz. vol. 152; p. 178.
Carney, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 948,368; Feb. 8; Sp. p. 1225; Gaz. vol. 151; p. 223.
Carnt, Edwin C., and A. Forster, assignors to J. Samuel White and Company Limited, East Cowes, Isle of Wight, England. Spray-burner. No. 952,306; Mar. 15; Sp. p. 3722; Gaz. vol. 152; p. 666.
Caro, Nikodem, Berlin, Germany. Obtaining ammonia. No. 970,883; Sept. 20; Sp. p. 3731; Gaz. vol. 158; p. 638.
Caro, Nikodem, Berlin, assignor to Gewerkschaft der Steinkohlenzeche Mont. Cenis, Sodingen, Germany. Obtaining ammonium sulfate from gases. No. 952,560; Mar. 22; Sp. p. 4257; Gaz. vol. 152; p. 780.
Carolinas Monazite Company. (See Smith, Walter F., assignor.)
Caron, Napoleon, Nashua, N. H. Hand-threading-shuttle attachment. No. 976,632; Nov. 22; Sp. p. 5630; Gaz. vol. 160; p. 952.
Caron, Wilfrid. (See Poitras and Caron.)
Carpenter, Alexander, Findlay, assignor of one-third to A. E. Karg and two-thirds to W. H. Bede, Toledo, Ohio. Door-lock. No. 962,997; June 28; Sp. p. 5777; Gaz. vol. 155; p. 1011.
Carpenter, Allan O., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Air-compressor. No. 972,161; Oct. 11; Sp. p. 1416; Gaz. vol. 159; p. 254.
Carpenter, Anna. (See Henderson, William H., assignor.)
Carpenter, Benjamin H., *et al.* (See Carpenter, Walter S., assignor.)
Carpenter, Chalmer, Pittsburg, Pa. Wheel. No. 973,916; Oct. 25; Sp. p. 5253; Gaz. vol. 159; p. 911.
Carpenter, Claude G., Findlay, Ohio. Safety device for elevators. No. 975,018; Nov. 8; Sp. p. 2138; Gaz. vol. 160; p. 349.
Carpenter, Edmund N., *et al.* (See Carpenter, Walter S., assignor.)
Carpenter, Eugene, Newton, Mass. Refrigerating system. No. 946,771; Jan. 18; Sp. p. 3932; Gaz. vol. 150; p. 654.
Carpenter, Forrest. (See Jordan and Carpenter.)
Carpenter, Franklin R., assignor to The American Iron and Steel Alloys Company, Denver, Colo. Rendering potash compounds soluble. No. 959,841; May 31; Sp. p. 7384; Gaz. vol. 154; p. 1250.
Carpenter, Henry L., Minneapolis, Minn. Garter. No. 979,426; Dec. 27; Sp. p. 4329; Gaz. vol. 161; p. 768.
Carpenter, Henry M. (See Hollister, Orange E., assignor.)

Carpenter, Hiram J., *et al.* (See Salladay, John W., assignor.)
Carpenter, J. B. (See Carpenter, William A., assignor.)
Carpenter, John C., Houston Heights, Tex. Clutch and transmission mechanism. No. 947,295; Jan. 25; Sp. p. 5075; Gaz. vol. 150; p. 858.
Carpenter, John C., Houston, Tex. Clutch and transmission mechanism. No. 947,406; Jan. 25; Sp. p. 5353; Gaz. vol. 150; p. 897.
Carpenter, John C., Houston Heights, Tex. Speed-regulating mechanism. No. 972,815; Oct. 18; Sp. p. 2832; Gaz. vol. 159; p. 506.
Carpenter, John L. (See Crudginton, James F., assignor.)
Carpenter, John W., Salem, W. Va. Gas economizer and purifier. No. 974,551; Nov. 1; Sp. p. 1100; Gaz. vol. 160; p. 166.
Carpenter, Louis G. W. (See Magna and Carpenter.)
Carpenter, Walter S., Wilkes-Barre, Pa., assignor of one-third to B. H. Carpenter and one-third to E. N. Carpenter. Apparatus for exhausting coal-dust from coal-breakers. No. 945,375; Jan. 4; Sp. p. 804; Gaz. vol. 150; p. 124.
Carpenter, William A., Charlotte, N. C. Mail-bag catcher. No. 976,041; Nov. 15; Sp. p 4275; Gaz. vol. 160; p. 725.
Carpenter, William A., assignor of one-fourth to J. B. Carpenter, Charlotte, N. C. Mail-distributing rack. No. 946,108; Jan. 11; Sp. p. 2418; Gaz. vol. 150; p. 402.
Carr, Benjamin F., Jacksonville, Tex. Shingling-bracket. No. 965,078; July 19; Sp. p. 4506; Gaz. vol. 156; p. 750.
Carr, Dox W., Severance, assignor to The Greeley Manufacturing Company, Greeley, Colo. Dump-bed for vehicles. No. 949,313; Feb. 15; Sp. p. 3207; Gaz. vol. 151; p. 565.
Carr, Dox W., assignor to The Greeley Manufacturing Company, Greeley, Colo. Dumping-body for vehicles. No. 949,314; Feb. 15; Sp. p. 3210; Gaz. vol. 151; p. 566.
Carr, Edward P., assignor of one-half to The William Cramp & Sons Ship & Engine Building Company, Philadelphia, Pa. Crucible-holding device. No. 976,042; Nov. 15; Sp. p. 4277; Gaz. vol. 160; p. 725.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr, Fred S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Appliance for cutting prong-receiving slits in carriage-curtains. No. 945,445; Jan. 4; Sp. p. 942; Gaz. vol. 150; p. 148.
Carr, Fred S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Means for forming socket-holes in carriage-curtains, &c. No. 949,883; Feb. 22; Sp. p. 4432; Gaz. vol. 151; p. 792.
Carr, Fred S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Attaching means for fastening members. No. 959,308; May 24; Sp. p. 6251; Gaz. vol. 154; p. 1046.
Carr, Fred S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Carriage-curtain fastener. No. 965,986; Aug. 2; Sp. p. 304; Gaz. vol. 157; p. 50.
Carr, Fred S., assignor to Carr Fastener Company, Boston, Mass. Forming holes in curtains and the like. No. 968,122; Aug. 23; Sp. p. 4861; Gaz. vol. 157; p. 844.
Carr, Herbert H., Boston, Mass. Folding bed. No. 974,747; Nov. 1; Sp. p. 1520; Gaz. vol. 160; p. 233.
Carr, Howard G., Hoopeston, Ill. Hog-breeding crate. No. 950,837; Mar. 1; Sp. p. 805; Gaz. vol. 152; p. 128.
Carr, Howard G., Hoopeston, Ill. Hog trap and loading chute. No. 963,357; July 5; Sp. p. 789; Gaz. vol. 156; p. 116.
Carr, James A. (See Lawrenz, William F., assignor.)
Carr, John. (See Partridge, Carr, and Gentle.)
Carr, John A., and R. Livingston, assignors to Keystone Iron Works, Los Angeles, Cal. Valve. No. 953,370; Mar. 29; Sp. p. 6016; Gaz. vol. 152; p. 1081.
Carr, Matthew, Chicago, Ill. Draft-gear. No. 946,994; Jan. 18; Sp. p. 4441; Gaz. vol. 150; p. 731.
Carr, Robert S., Oxford, Ohio. Valve-operating mechanism. No. 960,816; June 7; Sp. p. 1169; Gaz. vol. 155; p. 195.
Carr, William A., Springfield, Mass., assignor to C. H. Tenney, Hartford, Conn. Automatic gas-lamp. No. 974,748; Nov. 1; Sp. p. 1521; Gaz. vol. 160; p. 233.
Carr, William C., Buffalo, N. Y. Weighing-scale. No. 947,693; Jan. 25; Sp. p. 5967; Gaz. vol. 150; p. 993.
Carr, William C., Buffalo, N. Y. Transportation system. No. 956,040; Apr. 26; Sp. p. 5087; Gaz. vol. 153; p. 898.
Carr, William C., Buffalo, N. Y. Transportation system. No. 972,997; Oct. 18; Sp. p. 3280; Gaz. vol. 159; p. 571.
Carr, William C., Buffalo, N. Y. Transportation system. No. 977,370; Nov. 29; Sp. p. 7259; Gaz. vol. 160; p. 1232.
Carr, William C., Buffalo, N. Y. Transportation system. No. 978,112; Dec. 6; Sp. p. 1482; Gaz. vol. 161; p. 239.
Carr, William M. (See Speer, Charles H., assignor.)
Carraher, James T., Heath, Mass. Car-fender. No. 951,775; Mar. 8; Sp. p. 2660; Gaz. vol. 152; p. 460.
Carreré, Joseph M., assignor to Blanc Stainless Cement Company, Allentown, Pa. Making hydraulic cement. No. 953,258; Mar. 29; Sp. p. 5767; Gaz. vol. 152; p. 1044.
Carrère, Joseph M., assignor to Blanc Stainless Cement Company, Allentown, Pa. Making Portland cement. No. 978,848; Dec. 20; Sp. p. 3058; Gaz. vol. 161; p. 544.
Carrick, James T., Johannesburg, Transvaal. Treatment of pyritic copper and copper-nickel ores. No. 947,789; Feb. 1; Sp. p. 25; Gaz. vol. 151; p. 6.
Carrick, James T., assignor of one-half to S. Pattison, Johannesburg, Transvaal. Wet treatment of mattes. No. 961,934; June 21; Sp. p. 3519; Gaz. vol. 155; p. 622.
Carrick, John A., Georgetown, Ky. Muffler. No. 980,064; Dec. 27; Sp. p. 5720; Gaz. vol. 161; p. 984.
Carrico, Leo E. (See Muller and Carrico.)
Carrier, Carlos E., Bernalillo, N. Mex. Wire-band stretcher and cutter. No. 978,694; Dec. 13; Sp. p. 2758; Gaz. vol. 161; p. 470.
Carrier, Merwin W., assignor to The Monitor Manufacturing Company, Limited, Fredericton, New Brunswick, Canada. Acetylene-gas generator. No. 959,994; May 31; Sp. p. 7737; Gaz. vol. 154; p. 1303.
Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Humidifying apparatus. No. 971,248; Sept. 27; Sp. p. 4498; Gaz. vol. 158; p. 787.
Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Gas-washing machine. No. 973,626; Oct. 25; Sp. p. 4649; Gaz. vol. 159; p. 808.
Carrigan, Henry J., Buffalo, N. Y. Level. No. 975,830; Nov. 15; Sp. p. 3862; Gaz. vol. 160; p. 652.
Carrington, Campbell. (See Bolton, George E., assignor.)
Carrington, Rush W., Kansas City, Mo. Ventilator. No. 969,842; Sept. 13; Sp. p. 1521; Gaz. vol. 158; p. 261.
Carroll, Alexander W., Elizabeth, assignor to Chrome Steel Works, Chrome, N. J. Tire-mill. No. 968,921; Aug. 30; Sp. p. 6576; Gaz. vol. 157; p. 1145.
Carroll, Arthur V., Batavia, Ohio. Gearing for lathes. No. 975,748; Nov. 15; Sp. p. 3704; Gaz. vol. 160; p. 625.
Carroll, Bradish J., assignor to Power Specialty Company, New York, N. Y. Hydraulic ram. No. 976,546; Nov. 22; Sp. p. 5455; Gaz. vol. 160; p. 922.
Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Wire-drawing machine. No. 956,885; May 3; Sp. p. 842; Gaz. vol. 154; p. 133.
Carroll, Elbert L., and R. M. Skiles, Creston, Iowa. Road-drag. No. 948,720; Feb. 8; Sp. p. 1998; Gaz. vol. 151; p. 342.
Carroll, Frank B., and J. L. Ricks, Woodland, Miss. Measuring-bin. No. 975,208; Nov. 8; Sp. p. 2575; Gaz. vol. 160; p. 415.
Carroll, George P. (See Roehrich, Frank N., assignor.)
Carroll, George P. (See Schmidt, Louis M., assignor.)
Carroll, George P., Bridgeport, Conn. Doubly-actuated expansion-valve. No. 959,458; May 31; Sp. p. 6558; Gaz. vol. 154; p. 1120.
Carroll, George P., Bridgeport, Conn. Automatic absorption refrigerating system. No. 978,557; Dec. 13; Sp. p. 2456; Gaz. vol. 161; p. 423.
Carroll, Hugh J. (See Taylor, James H., assignor.)
Carroll, James, assignor of one-half to G. I. Kendrick, Pittsfield, Ill. Gate or door latch. No. 978,558; Dec. 13; Sp. p. 2483; Gaz. vol. 161; p. 424.
Carroll, James E., London, England. Maturing process and apparatus therefor. No. 968,832; Aug. 30; Sp. p. 6390; Gaz. vol. 157; p. 1115.
Carroll, James E., London, England. Purifying spirits and apparatus therefor. No. 968,833; Aug. 30; Sp. p. 6394; Gaz. vol. 157; p. 1115.
Carroll, James H., Atlanta, Ga. Vending-machine. No. 948,660; Feb. 8; Sp. p. 1862; Gaz. vol. 151; p. 321.
Carroll, Joseph E., Portsmouth, Ohio. Buggy-boot. No. 960,629; June 7; Sp. p. 802; Gaz. vol. 155; p. 131.
Carroll, Joseph E., Portsmouth, Ohio. Combination coat and trousers hanger. No. 975,509; Nov. 15; Sp. p. 3194; Gaz. vol. 160; p. 544.
Carroll, Joseph V. (See Williams, William A., assignor.)
Carroll, Louis W., Anamosa, Iowa. Electric signaling apparatus. No. 958,224; May 17; Sp. p. 3856; Gaz. vol. 154; p. 652.
Carroll, Mary A. (See Scherer, William P., assignor.)
Carroll, Michael J. (See Sickles, Millea, and Carroll.)
Carroll, Oren S., and E. S. Avey, Elma, Wash. Car-bunk and logging-stake. No. 963,514; July 5; Sp. p. 1104; Gaz. vol. 156; p. 168.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 951,266; Mar. 8; Sp. p. 1620; Gaz. vol. 152; p. 289.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 951,302; Mar. 8; Sp. p. 1704; Gaz. vol. 152; p. 301.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 951,303; Mar. 8; Sp. p. 1709; Gaz. vol. 152; p. 302.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 967,496; Aug. 16; Sp. p. 3557; Gaz. vol. 157; p. 611.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 973,754; Oct. 25; Sp. p. 4907; Gaz. vol. 159; p. 854.

Alphabetical list of patentees—Continued.

Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 977,509; Dec. 6; Sp. p. 186; Gaz. vol. 161; p. 31.
Carroll, Thomas P., *et al.* (See Lawrence, Harry O., assignor.)
Carroll, Timothy, Anaheim, Cal. Hopper. No. 972,678; Oct. 11; Sp. p. 2538; Gaz. vol. 159; p. 432.
Carroll, Vincent D., Johnstown, Pa. Tongs. No. 958,594; May 17; Sp. p. 4745; Gaz. vol. 154; p. 779.
Carroll, Walter J., assignor of one-half to Thomas W. Barnes, Detroit, Mich. Display-rack. No. 952,603; Mar. 22; Sp. p. 4360; Gaz. vol. 152; p. 796.
Carroll, William, Chicago, Ill. Fire-alarm system. No. 964,086; July 12; Sp. p. 2331; Gaz. vol. 156; p. 384.
Carroll, William P. (See Drew and Carroll.)
Carrotte, Jean, New York, N. Y. Paper construction. No. 968,644; Aug. 30; Sp. p. 5981; Gaz. vol. 157; p. 1052.
Carruthers, James. (See Scott and Sampere, assignors.)
Carruthers, Lloyd E., Chilocco, Okla. Liquid-measure indicator. No. 968,323; Aug. 23; Sp. p. 5307; Gaz. vol. 157; p. 915.
Carson, Alexander A., Braintree, Mass. Ball-cock. No. 972,331; Oct. 11; Sp. p. 1769; Gaz. vol. 159; p. 311.
Carson, Andrew C., *et al.* (See Bailey, Seth G., assignor.)
Carson, C. Hiram. (See Conniff and Burgess, assignors.)
Carson, Frank. (See Finnel and Carson.)
Carson, Frank D., Detroit, Mich., and D. C. Johnson, Moline, Ill. Street-indicator. No. 947,570; Jan. 25; Sp. p. 5734; Gaz. vol. 150; p. 952.
Carson, Howard A., Malden, Mass. Waterproofing tunnels. No. 970,683; Sept. 20; Sp. p. 3308; Gaz. vol. 158; p. 569.
Carson, Hugh J. (See Fritz and Carson.)
Carson, John E. (See Metcalf and Carson.)
Carson, Myra C., Vonore, Tenn. Jar-filler. No. 959,715; May 31; Sp. p. 7102; Gaz. vol. 154; p. 1206.
Carson, William R., Glasgow, Scotland. Latch. No. 967,103; Aug. 9; Sp. p. 2740; Gaz. vol. 157; p. 449.
Carssow, Felix H., San Francisco, Cal. Relief-valve. No. 966,999; Aug. 9; Sp. p. 2516; Gaz. vol. 157; p. 414.
Carstens, Charles B., Grafton, assignor of one-half to F. A. Traver, Milwaukee, Wis. Humidor. No. 976,150; Nov. 22; Sp. p. 4524; Gaz. vol. 160; p. 784.
Carter, Archie H., Canton, Ohio. Car-fender. No. 959,309; May 24; Sp. p. 6252; Gaz. vol. 154; p. 1046.
Carter, Byron J., assignor to Motor Car Co., Detroit, Mich. Adjustable journal-bearing. No. 962,124; June 21; Sp. p. 3957; Gaz. vol. 155; p. 688.
Carter Car Company. (See Palmer, Randall A., assignor.)
Carter, Charles, Danville, Va. Portable protector. No. 947,675; Jan. 25; Sp. p. 5939; Gaz. vol. 150; p. 988.
Carter, Charles A. (See Waldron, Charles E., assignor.)
Carter, Charles B., Chicago, Ill. Mold for brake-shoes. No. 965,869; Aug. 2; Sp. p. 45; Gaz. vol. 157; p. 10.
Carter, Charles B., Chicago, Ill. Metal-founding. No. 974,024; Oct. 25; Sp. p. 5476; Gaz. vol. 159; p. 949.
Carter, Charles H., Brooklyn, N. Y. Controlling device for mechanical movements. No. 961,842; June 21; Sp. p. 3322; Gaz. vol. 155; p. 591.
Carter, Charles L., Skirum, Ala. Canning-machine. No. 953,516; Mar. 29; Sp. p. 6325; Gaz. vol. 152; p. 1134.
Carter, Chester C., Wawaka, Tex. Combined cotton chopper and cultivator. No. 972,332; Oct. 11; Sp. p. 1771; Gaz. vol. 159; p. 311.
Carter, Clarendon B., Keota, Iowa. Seed-planter. No. 969,338; Sept. 6; Sp. p. 392; Gaz. vol. 158; p. 64.
Carter Company, W. T. (See Carter, William T., assignor.)
Carter-Crume Co., The. (See Bengough, James, assignor.)
Carter-Crume Co., The. (See Bottle, Edward K., assignor.)
Carter-Crume Co. (See Clark, Robert, assignor.)
Carter-Crume Co., The. (See Pringle, William A., assignor.)
Carter-Crume Company. (See Bailey, William T., assignor.)
Carter-Crume Company, The. (See Old, Thomas W., assignor.)
Carter-Crume Company, The. (See Robinson, George H., assignor.)
Carter, Dixon S., Bloomingdale, Ind. Ball-caster. No. 957,303; May 10; Sp. p. 1748; Gaz. vol. 154; p. 306.
Carter, Eber C., Carrollton, Ill. Furnace. No. 974,120; Nov. 1; Sp. p. 26; Gaz. vol. 160; p. 7.
Carter, Edwin E., assignor to The Day Ward Company, Warren, Ohio. Molding apparatus. No. 956,939; May 3; Sp. p. 943; Gaz. vol. 154; p. 151.
Carter, Francis A., Chicago, Ill. Casting-machine. No. 964,212; July 12; Sp. p. 2576; Gaz. vol. 156; p. 425.
Carter, Frank M., Oakland, Cal. Rotating sign-illuminating device. No. 949,111; Feb. 15; Sp. p. 2807; Gaz. vol. 151; p. 496.
Carter, Frank M., Stonington, Me. Insect-catcher. No. 970,181; Sept. 13; Sp. p. 2214; Gaz. vol. 158; p. 377.
Carter, George A., Nephi, Utah. Roller-bearing. No. 955,848; Apr. 26; Sp. p. 4667; Gaz. vol. 153; p. 831.
Carter, George H., Richmond Hill, N. Y. Portable cigarette-machine. No. 970,016; Sept. 13; Sp. p. 1890; Gaz. vol. 158; p. 321.
Carter, George H., New York, N. Y. Fountain-pen. No. 979,427; Dec. 27; Sp. p. 4331; Gaz. vol. 161; p. 768.
Carter, Harold B., Springfield, Vt. Reel-cradle. No. 970,884; Sept. 20; Sp. p. 3733; Gaz. vol. 158; p. 638.
Carter, Harry. (See Pearson and Carter.)
Carter, Henry F., Braden, Okla. Corn-planter. No. 971,116; Sept. 27; Sp. p. 4204; Gaz. vol. 158; p. 742.
Carter, Henry G., Good Ground, N. Y. Copy-book. No. 950,474; Mar. 1; Sp. p. 27; Gaz. vol. 152; p. 6.
Carter & Holmes. (See King, William S., assignor.)
Carter, Horace A., Needham Heights, Mass. Knitted fabric. No. 963,744; July 12; Sp. p. 1596; Gaz. vol. 156; p. 268.
Carter, Horace A., Needham Heights, Mass. Knitted fabric. No. 963,864; July 12; Sp. p. 1881; Gaz. vol. 156; p. 309.
Carter, James C., Decatur, Ill. Garment-fastener. No. 946,011; Jan. 11; Sp. p. 2229; Gaz. vol. 150; p. 370.
Carter, James H., Chicago, Ill. Folding carton. No. 969,087; Aug. 30; Sp. p. 6902; Gaz. vol. 157; p. 1202.
Carter, James H., Chicago, Ill. Box. No. 975,121; Nov. 8; Sp. p. 2361; Gaz. vol. 160; p. 385.
Carter, James M., M. A., and T. H., Larimore, N. D. Pencil-sharpener and clamp. No. 968,324; Aug. 23; Sp. p. 5308; Gaz. vol. 157; p. 915.
Carter, Jennings W., Manila, Philippine Islands. Testing-machine. No. 968,325; Aug. 23; Sp. p. 5310; Gaz. vol. 157; p. 915.
Carter, Joseph, New York, N. Y. Cigar-butt former. No. 948,646; Feb. 8; Sp. p. 1838; Gaz. vol. 151; p. 316.
Carter, Kenneth, assignor of one-third to R. B. Millard, Monrovia, Cal. Double-ended snap-hook. No. 974,950; Nov. 8; Sp. p. 1985; Gaz. vol. 160; p. 327.
Carter, Lewis H., Ansonia, Conn. Umbrella-frame. No. 947,790; Feb. 1; Sp. p. 26; Gaz. vol. 151; p. 7.
Carter, Maurice A. (See Carter, James M., M. A., and T. H.)
Carter, Nicholas H., Boise, Idaho. Shipping-crate. No. 954,613; Apr. 12; Sp. p. 1959; Gaz. vol. 153; p. 348.
Carter, Ralph B., Haworth, N. J., and J. L. Maull, New York, N. Y. Pneumatic pressure apparatus for water-tanks. No. 957,304; May 10; Sp. p. 1749; Gaz. vol. 154; p. 306.
Carter, Robert A., Jr., New York, N. Y. Smokeless briquet and making same. No. 968,123; Aug. 23; Sp. p. 4863; Gaz. vol. 157; p. 844.
Carter, Robert A., Jr., New York, N. Y. Smokeless briquet and making the same. No. 972,333; Oct. 11; Sp. p. 1773; Gaz. vol. 159; p. 312.
Carter, Samuel W., Washington, D. C. Range-finding sight. No. 951,523; Mar. 8; Sp. p. 2157; Gaz. vol. 152; p. 374.
Carter, Thomas H. (See Carter, James M., M. A., and T. H.)
Carter, William C., St. Louis, Mo. Carbureter. No. 961,481; June 14; Sp. p. 2556; Gaz. vol. 155; p. 447.
Carter, William C., St. Louis, Mo. Carbureter. No. 973,755; Oct. 25; Sp. p. 4913; Gaz. vol. 159; p. 854.
Carter, William C., St. Louis, Mo. Liquid-fuel strainer. No. 973,756; Oct. 25; Sp. p. 4915; Gaz. vol. 159; p. 855.
Carter, William T., assignor to W. T. Carter Company, Chicago, Ill. Liquid-soap dispenser. No. 967,727; Aug. 16; Sp. p. 4016; Gaz. vol. 157; p. 688.
Carter, William W. (See Buffum and Carter.)
Cartledge, Sarah R., Atlanta, Ga. Drawer-pull. No. 955,760; Apr. 19; Sp. p. 4469; Gaz. vol. 153; p. 771.
Cartmell, Benjamin L., Cincinnati, Ohio. Self-playing musical instrument. No. 948,474; Feb. 8; Sp. p. 1460; Gaz. vol. 151; p. 259.
Cartwright, Chapin A. (See Caps, John E., assignor.)
Cartwright, David J., Hull, assignor of one-half to W. S. Wait, Newton, Mass. Gun-mount. No. 974,552; Nov. 1; Sp. p. 1102; Gaz. vol. 160; p. 166.
Cartwright, George, assignor of one-half to W. Wright, Paterson, N. J. Gearing. No. 964,490; July 19; Sp. p. 3154; Gaz. vol. 156; p. 548.
Cartwright, George, assignor of one-half to W. Wright, Paterson, N. J. Divided nut. No. 964,752; July 19; Sp. p. 3844; Gaz. vol. 156; p. 640.
Cartwright, James, East Wellington, British Columbia, Canada. Means for firing a blasting charge. No. 953,594; Mar. 29; Sp. p. 6490; Gaz. vol. 152; p. 1160.
Cartwright, Zachariah, Ilford, England. Obtaining solutions or quasi solutions of certain metallic oxids. No. 980,143; Dec. 27; Sp. p. 5916; Gaz. vol. 161; p. 1010.
Caruso, Cesare. (See Caruso, Nicolas and C.)
Caruso, Mario, New Haven, Conn., assignor to Lionel Manufacturing Company. Toy-railway rail. No. 976,633; Nov. 22; Sp. p. 5631; Gaz. vol. 160; p. 952.
Caruso, Nicolas and C., Tarentum, Pa. Cuspidor-cleaner. No. 951,591; Mar. 8; Sp. p. 2290; Gaz. vol. 152; p. 397.
Carvalho, Carlos C. R. de, Lisbon, Portugal. Ship-propelling device. No. 945,263; Jan. 4; Sp. p. 536; Gaz. vol. 150; p. 88.
Carver, Fred S., Brooklyn, N. Y. Air-pump. No. 946,719; Jan. 18; Sp. p. 3809; Gaz. vol. 150; p. 636.
Carver, Fred S., New York, N. Y. Pump. No. 964,087; July 12; Sp. p. 2336; Gaz. vol. 156; p. 384.
Carver, John H., Cincinnati, Ohio. Gas-burner. No. 971,117; Sept. 27; Sp. p. 4207; Gaz. vol. 158; p. 742.
Carver, Thomas A. B., Glasgow, Scotland. Supporting appliance. No. 952,184; Mar. 15; Sp. p. 3469; Gaz. vol. 152; p. 624.

Carvin, Edward O., assignor of one-fourth to J. M. Smith, Manhattan, Nev. Hoisting device. No. 957,865; May 17; Sp. p. 2893; Gaz. vol. 154; p. 525.
Cary, Bettie L., (now by marriage Bettie L. Bloodworth,) Macon, Ga. Type-writer. No. 948,952; Feb. 8; Sp. p. 2463; Gaz. vol. 151; p. 418.
Cary, Charles R. (See Northrup, Leeds, and Cary.)
Cary, James B., Grand Island, Nebr. Mail-delivery apparatus. No. 976,433; Nov. 22; Sp. p. 5212; Gaz. vol. 160; p. 885.
Cary, James H., Portland, Me. Electric-fuse tester. No. 968,448; Aug. 23; Sp. p. 5547; Gaz. vol. 157; p. 957.
Casad, Roland C., Covina, Cal. Oil-burner. No. 962,695; June 28; Sp. p. 5200; Gaz. vol. 155; p. 907.
Casaday, William L., South Bend, Ind. Propeller and boat construction. No. 965,870; Aug. 2; Sp. p. 46; Gaz. vol. 157; p. 10.
Casady, Albert L., Fairfield, Iowa. Rail-joint. No. 974,951; Nov. 8; Sp. p. 1985; Gaz. vol. 160; p. 327.
Casale, Antonio, Scranton, Pa. Electric railway safety system. No. 971,249; Sept. 27; Sp. p. 4501; Gaz. vol. 158; p. 787.
Casassa, Joseph, Malden, Mass. Reclining-chair. No. 972,334; Oct. 11; Sp. p. 1776; Gaz. vol. 159; p. 312.
Cascaden Manufacturing Company. (See Cascaden, Thomas, Jr., assignor.)
Cascaden, Thomas, Jr. (See Buswell and Cascaden.)
Cascaden, Thomas, Jr., assignor to Cascaden Manufacturing Company, Waterloo, Iowa. Grinding-mill. No. 948,466; Feb. 8; Sp. p. 1434; Gaz. vol. 151; p. 256.
Case, Adelbert B., Springfield, Mass. Lawn-mower. No. 960,503; June 7; Sp. p. 529; Gaz. vol. 155; p. 88.
Case Brothers Cutlery Co. (See Orchard, Arthur L., assignor.)
Case Brothers Cutlery Company. (See Gorsline, Leon D., assignor.)
Case, Emanuel H., and T. R. Barrall, Nanticoke, Pa. Rail-fastener. No. 974,356; Nov. 1; Sp. p. 641; Gaz. vol. 160; p. 95.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Electric vehicle. No. 946,753; Jan. 18; Sp. p. 3886; Gaz. vol. 150; p. 648.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Controller. No. 948,442; Feb. 8; Sp. p. 1389; Gaz. vol. 151; p. 248.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 953,021; Mar. 29; Sp. p. 5238; Gaz. vol. 152; p. 966.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Electric-railway system. No. 959,919; May 31; Sp. p. 7558; Gaz. vol. 154; p. 1276.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Pantograph-trolley. No. 963,865; July 12; Sp. p. 1884; Gaz. vol. 156; p. 309.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Controller-handle. No. 970,684; Sept. 20; Sp. p. 3309; Gaz. vol. 158; p. 569.
Case, Frank O., East Bloomfield, N. Y. Fruit-parer. No. 968,538; Aug. 30; Sp. p. 5756; Gaz. vol. 157; p. 1014.
Case, George A., Joplin, Mo. Railway armored wood cross-tie. No. 952,977; Mar. 22; Sp. p. 5137; Gaz. vol. 152; p. 923.
Case, George L., Minneapolis, Minn. Sash-hanger. No. 960,817; June 7; Sp. p. 1171; Gaz. vol. 155; p. 195.
Case, Handley, and D. A. Marshall, Dexter, N. Y. Screen-plate lock. No. 964,753; July 19; Sp. p. 3845; Gaz. vol. 156; p. 640.
Case, Joseph B., Buffalo, N. Y. Lamp and lantern snuffer. No. 968,740; Aug. 30; Sp. p. 6212; Gaz. vol. 157; p. 1085.
Case, William W., Knowles, Cal. Wrench. No. 974,121; Nov. 1; Sp. p. 27; Gaz. vol. 160; p. 8.
Case, Willis W., assignor to The Denver Fire Clay Co., Denver, Colo. Burner. No. 950,996; Mar. 1; Sp. p. 1104; Gaz. vol. 152; p. 178.
Case, Willis W., Sr., assignor to The Denver Fire Clay Company, Denver, Colo. Hydrocarbon-burner. No. 971,489; Sept. 27; Sp. p. 4934; Gaz. vol. 158; p. 864.
Casein Company of America. (See Dunham, Henry V., assignor.)
Casey-Hedges Company, The. (See Bauer and Stimmel, assignors.)
Casey, James P., assignor to E. N. Gilfillan, Syracuse, N. Y. Cutter for pencil-sharpeners. No. 971,728; Oct. 4; Sp. p. 464; Gaz. vol. 159; p. 80.
Casey, John R., Mountain Home, Ark. Washboard attachment. No. 962,891; June 28; Sp. p. 5586; Gaz. vol. 155; p. 977.
Casey, Judson R., *et al.* (See McLaughlin, John, assignor.)
Casey, William C. (See Hanley, John M., assignor.)
Casgrain, Louis A., Beverly, Mass. Speed-gage. No. 962,622; June 28; Sp. p. 5044; Gaz. vol. 155; p. 882.
Cash, Arthur W., Newark, N. J. Reducing-valve. No. 956,283; Apr. 26; Sp. p. 5626; Gaz. vol. 153; p. 982.
Cash, Arthur W., Newark, N. J., and C. Rorabeck, New York, N. Y. Pipe-union. No. 962,075; June 21; Sp. p. 3830; Gaz. vol. 155; p. 671.
Cash, William F., Hiawatha, Kans. Ironing-board. No. 955,052; Apr. 12; Sp. p. 2946; Gaz. vol. 153; p. 499.
Caslow, William H., Claridge, Pa. Locking device. No. 961,753; June 21; Sp. p. 3123; Gaz. vol. 155; p. 563.
Casner, Cyrus H., Hepburnville, Pa. Road-scraper. No. 966,081; Aug. 2; Sp. p. 509; Gaz. vol. 157; p. 82.
Caspari, Charles, Milwaukee, Wis. Automatic animal-feeder. No. 963,866; July 12; Sp. p. 1886; Gaz. vol. 156; p. 310.
Cass, Christopher P., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Duplex-pressure straight-air brake. No. 977,164; Nov. 29; Sp. p. 6834; Gaz. vol. 160; p. 1160.
Cass, Christopher P., Maplewood, Mo., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Combined automatic and independent brake. No. 979,929; Dec. 27; Sp. p. 5434; Gaz. vol. 161; p. 939.
Cass, Christopher P., Maplewood, and H. A. Wahlert, St. Louis, Mo. Air-brake-cylinder attachment. No. 947,541; Jan. 25; Sp. p. 5672; Gaz. vol. 150; p. 942.
Cassan, Robert J., Minneapolis, Minn. Horse-collar fastener. No. 978,006; Dec. 6; Sp. p. 1258; Gaz. vol. 161; p. 202.
Cassedy, Hiram, Sr., and R. S. Purser, Brookhaven, Miss. Charge-forming device for internal-combustion engines. No. 971,971; Oct. 4; Sp. p. 1028; Gaz. vol. 159; p. 171.
Cassella Color Company. (See Herz, Richard, assignor.)
Cassella Color Company. (See Herz and Saul, assignors.)
Casselman, Lawrence, *et al.* (See Sykes, William W., assignor.)
Cassidy, George W., East Orange, N. J. Electric-lamp socket-cover and shade-holder. No. 962,076; June 21; Sp. p. 3832; Gaz. vol. 155; p. 671.
Cassidy, George W., East Orange, N. J., assignor to Cassidy & Son Manufacturing Company, New York, N. Y. Chandelier for gas-lamps. No. 971,020; Sept. 27; Sp. p. 3996; Gaz. vol. 158; p. 710.
Cassidy, John J., *et al.* (See Weiner, Jardo, assignor.)
Cassidy, Miles, Ardmore, Pa. Clevis. No. 972,998; Oct. 18; Sp. p. 3283; Gaz. vol. 159; p. 571.
Cassidy & Son Manufacturing Company. (See Cassidy, George W., assignor.)
Cassidy, Thomas H., Cranbrook, British Columbia, Canada. Lamp-bracket. No. 976,634; Nov. 22; Sp. p. 5633; Gaz. vol. 160; p. 952.
Cassidy, William T., assignor of one-half to E. C. Beiriger, Chicago, Ill. Indicating-bottle. No. 962,004; June 21; Sp. p. 3670; Gaz. vol. 155; p. 645.
Cast Steel Platform Company. (See Frede, Charles F., assignor.)
Cast Steel Platform Company. (See Westlake, Charles T., assignor.)
Casteen, William P., Nashville, Tenn. Toy. No. 950,091; Feb. 22; Sp. p. 4918; Gaz. vol. 151; p. 865.
Castiglione, Edwin J., *et al.* (See Locke, D'Arcy V. T. A., assignor.)
Castle, Alfred L., Quincy, Ill. Stove-lid. No. 947,370; Jan. 25; Sp. p. 5269; Gaz. vol. 150; p. 886.
Castle Braid Company. (See Schloss and Hawley, assignors.)
Castle, Frank Auckland, assignor of two-fifths to E. J. Riddiford, Wellington, two-fifths to W. E. Bidwill, Featherston, and one-tenth to L. L. McDermott, Auckland, New Zealand. Electrical alarm system. No. 973,627; Oct. 25; Sp. p. 4653; Gaz. vol. 159; p. 809.
Castle, James B., assignor of one-half to R. S. Moore, San Francisco, Cal. Cranking mechanism for automobiles. No. 974,235; Nov. 1; Sp. p. 344; Gaz. vol. 160; p. 49.
Castle, Lewis D., assignor of one-half to D. F. Smith, Barberton, Ohio. Advertising closet-seat cover. No. 952,231; Mar. 15; Sp. p. 3568; Gaz. vol. 152; p. 641.
Castle, William H., Geneva, Ohio. Rail-fastener. No. 955,761; Apr. 19; Sp. p. 4470; Gaz. vol. 153; p. 771.
Castles, Wesley, Stanmore, near Sydney, New South Wales, Australia. Machine for excavating, raising, and dumping earth, &c. No. 950,367; Feb. 22; Sp. p. 5463; Gaz. vol. 151; p. 958.
Castles, William H., *et al.* (See Macdonald, Thomas A., assignor.)
Casto, Frank M., assignor of one-half to C. A. Harris, Cleveland, Ohio. Acetylene-burner. No. 960,818; June 7; Sp. p. 1172; Gaz. vol. 155; p. 195.
Castonguay, Leger J., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 957,305; May 10; Sp. p. 1751; Gaz. vol. 154; p. 306.
Castonguay, Leger J., assignor to The Bryant Electric Company, Bridgeport, Conn. Electrical receptacle and rosette. No. 962,816; June 28; Sp. p. 5438; Gaz. vol. 155; p. 950.
Castro, Alberto A. de A. de, assignor of one-half to H. Coachman, Sao Paulo, Brazil. Seal-lock. No. 956,480; Apr. 26; Sp. p. 6059; Gaz. vol. 153; p. 1050.
Caswell, Annie E. (See Caswell, William B., assignor.)
Caswell, Frederick K., Los Angeles, Cal., assignor to Paul Dickinson (Incorporated), Chicago, Ill. Automatic brake-shoe machine. No. 973,167; Oct. 18; Sp. p. 3667; Gaz. vol. 159; p. 629.
Caswell, Frederick K., Los Angeles, Cal., assignor to Paul Dickinson (Incorporated), Chicago, Ill. Making brake-shoes. No. 973,168; Oct. 18; Sp. p. 3673; Gaz. vol. 159; p. 630.
Caswell, Frederick K., Los Angeles, Cal., assignor to Paul Dickinson (Incorporated), Chicago, Ill. Brake-shoe machine. No. 973,169 Oct. 18; Sp. p. 3678; Gaz. vol. 159; p. 630.

Alphabetical list of patentees—Continued.

Caswell, Henry E., Jeffersonville, Ohio. Mouth-speculum. No. 965,079; July 19; Sp. p. 4507; Gaz. vol. 156; p. 750.
Caswell, Luther A., assignor of one-half to G. Danner, Muncie, Ind. Wheel. No. 947,215; Jan. 18; Sp. p. 4865; Gaz. vol. 150; p. 802.
Caswell, William A., Chicago, Ill., assignor to National Dump Car Company. Door-operating mechanism for dump-cars. No. 959,459; May 31; Sp. p. 6565; Gaz. vol. 154; p. 1121.
Caswell, William B., assignor of one-half to A. E. Caswell, Newport, R. I. Vertically-adjustable shade-hanger. No. 956,842; May 3; Sp. p. 744; Gaz. vol. 154; p. 118.
Caswell, William M., and J. A. Schofield, Warren, Pa. Hame-fastener. No. 961,935; June 21; Sp. p. 3521; Gaz. vol. 155; p. 622.
Catalano, Peter P., Lawton Station, N. Y. Checkrein-holder. No. 974,472; Nov. 1; Sp. p. 913; Gaz. vol. 160; p. 135.
Cater, Rowland W., West Croydon, and G. V. A. Schofield, London, England. Knife or tool for tapping rubber and other gum trees. No. 971,021; Sept. 27; Sp. p. 3997; Gaz. vol. 158; p. 710.
Cates, Harry S., assignor of one-half to D. A. Brotherton, Escanaba, Mich. Finger-moistener. No. 975,676; Nov. 15; Sp. p. 3571; Gaz. vol. 160; p. 601.
Cates, Joseph A., Mason, Tex. Insulation-applying device. No. 969,599; Sept. 6; Sp. p. 966; Gaz. vol. 158; p. 153.
Cates, Louis S. (See Sundberg, Theodore R., assignor.)
Cates, R. F., *et al.* (See Pochyla and King, assignors.)
Cathcart, Harry G., Detroit, Mich., assignor of one-half to F. C. Geraghty, Cleveland, Ohio. Sanitary cuspidor. No. 946,853; Jan. 18; Sp. p. 4131; Gaz vol. 150; p. 684.
Cathcart, William R. (See Falding, Frederic J., assignor.)
Cathy, Joseph B., Godfrey, Ga. Holding device for resetting scrapers. No. 974,644; Nov. 1; Sp. p. 1289; Gaz. vol. 160; p. 199.
Catlin, Abel D., Chattanooga, Tenn. Woodworking-machine. No. 979,824; Dec. 27; Sp. p. 5216; Gaz. vol. 161; p. 905.
Catlin, Edward L. (See Van Schaick and Catlin.)
Catmull, Henry, Rupert, Idaho. Beet-topper. No. 947,222; Jan. 25; Sp. p. 4889; Gaz. vol. 150; p. 834.
Cator, Richard G., Palmyra, N. Y. Faucet. No. 951,267; Mar. 8; Sp. p. 1623; Gaz. vol. 152; p. 289.
Catton, Arthur W. and C. W., West Seattle, Wash. Regenerative furnace. No. 979,647; Dec. 27; Sp. p. 4817; Gaz. vol. 161; p. 845.
Catton, Charles W. (See Catton, Arthur W. and C. W.)
Catton, Ira C. (See Catton, Rado B. and I. C.)
Catton, Ira C., Brimfield, Ill. Rail-tie and rail-fastener. No. 971,118: Sept. 27; Sp. p. 4208; Gaz. vol. 158; p. 743.
Catton, Rado B. and I. C., Brimfield, Ill. Grain-door. No. 972,505; Oct. 11; Sp. p. 2148; Gaz. vol. 159; p. 373.
Catucci, Pliny, Newark, N. J., assignor, by mesne assignments, to The Meisselbach-Catucci Manufacturing Company. Hobbing gear-cutter. No. 978,113; Dec. 6; Sp. p. 1483; Gaz. vol. 161; p. 240.
Cauffman, Robert M., and W. Best, Centerville, Mich.; said Best assignor to said Cauffman. Pasteurizing apparatus. No. 948,443; Feb. 8; Sp. p. 1393; Gaz. vol. 151; p. 248.
Caughey, Robert C., assignor to Eagle Manufacturing Company, Kansas City, Mo. Baling-press. No. 949,259; Feb. 15; Sp. p. 3098; Gaz. vol. 151; p. 547.
Caughrean, George H., assignor of one-sixth to A. J. Dunton and one-sixth to H. T. Dobson, Ketchikan, Alaska. Signaling apparatus. No. 978,695; Dec. 13; Sp. p. 2760; Gaz. vol. 161; p. 470.
Caul, Louis, Cleveland, Ohio. Carbonating-machine. No. 974,774; Nov. 8; Sp. p. 1577; Gaz. vol. 160; p. 265.
Caulfield, Edwin W., St. Petersburg, Fla. Composition of matter for prevention and removal of incrustation in explosive-engines. No. 974,749; Nov. 1; Sp. p. 1524; Gaz. vol. 160; p. 234.
Caulfield, James P., Baltimore, Md. Key-frame for pianos. No. 952,509; Mar. 22; Sp. p. 4138; Gaz. vol. 152; p. 762.
Caulfield, James P., Baltimore, Md. Pedal-action for musical instruments. No. 963,420; July 5; Sp. p. 919; Gaz. vol. 156; p. 136.
Causey, Francis F. (See Cosby, Oscar G., assignor.)
Cavagnaro, Nicholas J. (See Cevasco, Cavagnaro, and Ambrette.)
Cavanagh, Daniel F. (See Cavanagh, Eugene M. and D. F.)
Cavanagh, Eugene M. and D. F., assignors to New York Scaffolding Co., New York, N. Y. Scaffold-support. No. 978,823; Dec. 13; Sp. p. 3010; Gaz. vol. 161; p. 511.
Cavanagh, Frank A. (See Davenport, Isaac L., assignor.)
Cavanagh, James, Jr., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus employed for fastening shoe-uppers by means of wire. No. 965,438; July 26; Sp. p. 5266; Gaz. vol. 156; p. 901.
Cavanagh, John F., assignor of three-fourths to Lindsley and Allen Electric Company, Providence, R. I. Electric reversing-switch. No. 972,999; Oct. 18; Sp. p. 3284; Gaz. vol. 159; p. 571.
Cavanagh, Michael, New York, N. Y. Tenpin-ball. No. 950,838; Mar. 1; Sp. p. 807; Gaz. vol. 152; p. 129.
Cavanagh, William F., Providence, R. I. Loom-shuttle. No. 968,326; Aug. 23; Sp. p. 5311; Gaz. vol. 157; p. 915.
Cavanaugh, Leander J., and E. T. Young, Boston, Mass. Power-generator. No. 976,547; Nov. 22; Sp. p. 5456; Gaz. vol. 160; p. 922.
Cave-Moyle, Philip. (See Hughes and Cave-Moyle.)
Cavedo, Robert M. (See Hysell and Cavedo.)
Caveney, George, Oakland, Cal. Handcuff. No. 948,310; Feb. 8; Sp. p. 1108; Gaz. vol. 151; p. 203.
Caverno, Albert D., Windsor Locks, Conn. Automatic swaging and sizing machine. No. 972,599; Oct. 11; Sp. p. 2381; Gaz. vol. 159; p. 406.
Caverno, Xenophon, Kewanee, Ill. Pumping apparatus. No. 955,580; Apr. 19; Sp. p. 4042; Gaz. vol. 153; p. 709.
Caverno, Xenophon, Kewanee, Ill. Pumping apparatus. No. 963,358; July 5; Sp. p. 791; Gaz. vol. 156; p. 116.
Cavileer, William N., assignor of one-half to J. A. Beaven, San Francisco, Cal. Window-sash retainer. No. 965,987; Aug. 2; Sp. p. 306; Gaz. vol. 157; p. 50.
Cawley, Martin H., Epworth, N. D. Automatic carrier. No. 977,929; Dec. 6; Sp. p. 1101; Gaz. vol. 161; p. 175.
Caylor, Joseph J., Washington, D. C. Rack for paper bags or the like. No. 948,604; Feb. 8; Sp. p. 1744; Gaz. vol. 151; p. 301.
Caywood, James E., assignor of one-third to F. E. Farrell and one-third to C. A. Barnes, Jacksonville, Ill. Draft-evener. No. 965,080; July 19; Sp. p. 4508; Gaz. vol. 156; p. 750.
Cazier, Marion H., and A. P. Dike, Chicago, Ill. Trousers-hanger. No. 977,594; Dec. 6; Sp. p. 410; Gaz. vol. 161; p. 60.
Cazier, Perry H., Nashville, Mich. Lumber-piler. No. 977,434; Dec. 6; Sp. p. 14; Gaz. vol. 161; p. 6.
Cebulla, Thomas, assignor of one-fourth to W. Kazulewski and one-fourth to J. B. Lencoski, Latrobe, Pa. Hasp-lock. No. 967,326; Aug. 16; Sp. p. 3191; Gaz. vol. 157; p. 553.
Cecchi, Luigi, *et al.* (See Cipollina, Giuseppe, assignor.)
Cedergren, Fred, assignor of one-half to F. S. Betz, Hammond, Ind. Sinusoidal-wave-current apparatus. No. 979,060; Dec. 20; Sp. p. 3542; Gaz. vol. 161; p. 620.
Cell Drier Machine Company. (See Cutter, George A., assignor.)
Celli, Guiseppe, Leominster, Mass. Plate-lifter. No. 962,196; June 21; Sp. p. 4113; Gaz. vol. 155; p. 713.
Celluloid Company, The. (See Lindsay, William G., assignor.)
Cellulose Package Manufacturing Co. (See Homburg, Christian F., assignor.)
Center, Addison P., Brawley, Cal. Developing apparatus. No. 951,983; Mar. 15; Sp. p. 3100; Gaz. vol. 152; p. 559.
Center, Richard, assignor of one-half to H. C. Lacey, Pine Ridge, Ky. Nut-lock. No. 951,800; Mar. 15; Sp. p. 2728; Gaz. vol. 152; p. 498.
Central Architectural Iron Works. (See Anderson, David A., assignor.)
Central Brass & Fixture Company, The. (See Turner and Crabill, assignors.)
Central Iron Works. (See Lechtenberg, Henry, assignor.)
Central Railway Signal Company. (See Clark, Robert M. and C. J., assignors.)
Central Vending Machine Company. (See Jones, Andrew B., assignor.)
Century Electric Company. (See Pillsbury, Edwin S., assignor.)
Century Telephone Construction Company. (See Kusel, Harry J., assignor.)
Century Telephone Construction Company. (See Sweet, Burton W., assignor.)
Ceramic Machinery Company, The. (See Goldsmith, Frederick E., assignor.)
Ceramic Machinery Company, The. (See Scovill, James P., assignor.)
Ceramic Supply & Construction Company, The. (See Lewis, Douglas, assignor.)
Cerofirm-Gesellschaft M. B. H. (See Böhm, Conrad R., assignor.)
Cerri, Nicola, Cleveland, Ohio. Cuff-protector. No. 955,631; Apr. 19; Sp. p. 4181; Gaz. vol. 153; p. 728.
Cerrini, Baronin S., Munich, Germany. Portable folding table. No. 964,392; July 12; Sp. p. 2938; Gaz. vol. 156; p. 485.
Cervelli, José, assignor of one-third to J. Molinari and one-third to J. Bernasconi, Buenos Ayres, Argentina. Propelling and driving mechanism. No. 970,607; Sept. 20; Sp. p. 3116; Gaz. vol. 158; p. 543.
Cesinger, George V., San Antonio Tex. Siding lumber. No. 948,160; Feb. 1; Sp. p. 782; Gaz. vol. 151; p. 129.
Cessna, John B. (See Dandridge and Cessna.)
Cevasco, James, N. J. Cavagnaro, Brooklyn, and C. Ambrette, New York, N. Y. Wire twisting and weaving machine. No. 976,548; Nov. 22; Sp. p. 5460; Gaz. vol. 160; p. 923.
Chabut, Louis O., Youngstown, Ohio. Railway-rail-fastening device. No. 966,087; Aug. 2; Sp. p. 519; Gaz. vol. 157; p. 84.
Chace, Norman B. (See Steen and Chace.)
Chace, Norman B., College Hill, and A. R. Murray, assignors to The Cincinnati Shaper Company, Cincinnati, Ohio. Stroke-adjusting means in metal-working machinery. No. 966,524; Aug. 9; Sp. p. 1483; Gaz. vol. 157; p. 255.

Chadbourne, Edward M., San Francisco, Cal. Oiled concrete roadway. No. 956,940; May 3; Sp. p. 946; Gaz. vol. 154; p. 151.
Chadbourne, Edward M., San Francisco, Cal. Oil-con crete roadway. No. 965,562; July 26; Sp. p. 5563; Gaz. vol. 156; p. 947.
Chaddock, Charles E. and R. G., Canton, Ohio. Glove. No. 964,608; July 19; Sp. p. 3452; Gaz. vol. 156; p. 590.
Chaddock, Emory L., Fresno, Cal. Impaling-roll. No. 975,831; Nov. 15; Sp. p. 3863; Gaz. vol. 160; p. 652.
Chaddock, Richard G. (See Chaddock, Charles E. and R. G.)
Chadeloid Chemical Company. (See Ellis, Carleton, assignor.)
Chader, Emil F., Pearl River, and V. Anderson, Arlington, N. Y. Rotary engine. No. 964,754; July 19; Sp. p. 3846; Gaz. vol. 156; p. 641.
Chadwick, Arthur H., Hamilton, Ontario, Canada. Seal-lock for loose-leaf binders and the like. No. 972,817; Oct. 18; Sp. p. 2836; Gaz. vol. 159; p. 506.
Chadwick, Everett D., Winchester, Mass. Ventilator. No. 950,839; Mar. 1; Sp. p. 808; Gaz. vol. 152; p. 129.
Chadwick, Robert, Lexington, Nebr. Train-ventilator. No. 970,685; Sept. 20; Sp. p. 3312; Gaz. vol. 158; p. 569.
Chaffee, Joseph D., Willimantic, Conn. Spool. No. 956,284; Apr. 26; Sp. p. 5628; Gaz. vol. 153; p. 983.
Chaille, Lee, Butlerville, Ind. Lawn-mower sharpener. No. 978,356; Dec. 13; Sp. p. 2030; Gaz. vol. 161; p. 354.
Chaitken, Edmund D. (See McQuillan and Chaitken.)
Chalas, Adolphe, Philadelphia, Pa. Recovering nickel and copper from ores and mattes. No. 947,791; Feb. 1; Sp. p. 27; Gaz. vol. 151; p. 7.
Chalas, Adolphe, Philadelphia, Pa. Reducing nickel hydrosilicate ores. No. 959,460; May 31; Sp. p. 6568; Gaz. vol. 154; p. 1121.
Chalmers-Detroit Motor Company. (See Coffin, Howard E., assignor.)
Chalmers-Detroit Motor Company. (See Utz, John G., assignor.)
Chalmers, Edward P., Norwood, Mass. Game apparatus. No. 958,722; May 24; Sp. p. 5001; Gaz. vol. 154; p. 846.
Chaloux, John J., Watervliet, N. Y. Glass-tube-grinding machine. No. 970,987; Sept. 20; Sp. p. 3927; Gaz. vol. 158; p. 671.
Chamberlain, Charles W., administrator. (See Noble, Jay.)
Chamberlain, Clarence M., Denver, Colo. Filtering apparatus. No. 959,461; May 31; Sp. p. 6569; Gaz. vol. 154; p. 1121.
Chamberlain, Ella H. (See Chamberlain, William D., assignor.)
Chamberlain, Glenn R., A. G. Schroeder, and A. A. McLeod, Grand Rapids, Mich.; said McLeod assignor to said Chamberlain and Schroeder. Closure for hose-pipe connections. No. 945,753; Jan. 11; Sp. p. 1658; Gaz. vol. 150; p. 278.
Chamberlain, Rufus N., Depew, assignor to Gould Storage Battery Company, New York, N. Y. Storage battery. No. 970,420; Sept. 13; Sp. p. 2703; Gaz. vol. 158; p. 456.
Chamberlain, Rufus N., Depew, and M. R. Shedd, Lancaster, N. Y.. assignors to Gould Storage Battery Company. Electrical system of distribution. No. 976,151; Nov. 22; Sp. p. 4528; Gaz. vol. 160; p. 785.
Chamberlain, Walter, *et al.* (See Hemphill, Henry B., assignor.)
Chamberlain, William D., assignor to E. H. Chamberlain, Buffalo, N. Y. Dust-pan. No. 946,109; Jan. 11; Sp. p. 2420; Gaz. vol. 150; p. 403.
Chamberlain, William H., Youngwood, Pa. Metallic tie and rail-fastener. No. 954,254; Apr. 5; Sp. p. 1185; Gaz. vol. 153; p. 198.
Chamberlain, Wilson P., Jr., assignor of one-half to B. F. McConnell, Kane, Pa. Amusement apparatus. No. 973,105; Oct. 18; Sp. p. 3509; Gaz. vol. 159; p. 606.
Chamberlin, Edmund A., Aberdeen, S. D. Curtain-bracket. No. 950,611; Mar. 1; Sp. p. 313; Gaz. vol. 152; p. 51.
Chamberlin, Floyd E., Schaller, Iowa. Disk-sled. No. 969,600; Sept. 6; Sp. p. 967; Gaz. vol. 158; p. 153.
Chamberlin. Gordon S., *et al.* (See Frederickson, Clayton E., assignor.)
Chamberlin, Henry C., Olyphant, Pa. Furnace-grate. No. 946,488; Jan. 11; Sp. p. 3331; Gaz. vol. 150; p. 535.
Chamberlin, John H., Kalamazoo, Mich. Window-screen. No. 950,746; Mar. 1; Sp. p. 618; Gaz. vol. 152; p. 98.
Chamberlin, Louis H., Chicago, Ill. Combined shovel and sifter. No. 945,754; Jan. 11; Sp. p. 1659; Gaz. vol. 150; p. 279.
Chamberlin, Newton F., Libertyville, Ill., assignor of one-half to J. M. Morrison, Bethesda, Md. Lock-nut. No. 976,847; Nov. 29; Sp. p. 6096; Gaz. vol. 160; p. 1049.
Chambers Brothers Company. (See Chambers, Cyrus, Jr., assignor.)
Chambers Brothers Company. (See King, Howard K., assignor.)
Chambers, Cyrus, Jr., Overbrook, Pa., assignor to Chambers Brothers Company. Stamping-machine. No. 960,819; June 7; Sp. p. 1174; Gaz. vol. 155; p. 196.
Chambers, George, Ontario, Oreg. Hopple. No. 953,818; Apr. 5; Sp. p. 277; Gaz. vol. 153; p. 49.
Chambers, Henry C. (See Irwin and Chambers.)
Chambers, James A., Pittsburg, Pa. Apparatus for handling molten glass. No. 950,092; Feb. 22; Sp. p. 4919; Gaz. vol. 151; p. 866.
Chambers, James M. (See MacDougal and Chambers.)
Chambers, John S., Rocky Mount, N. C. Throttle-valve. No. 952,510; Mar. 22; Sp. p. 4139; Gaz. vol. 152; p. 762.
Chambers, Joseph E., St. Louis, Mo. Photographing on stone. No. 968,645; Aug. 30; Sp. p. 5982; Gaz. vol. 157; p. 1052.
Chambers, Nathan J., Cincinnati, Ohio. Machine for sharpening saw-teeth. No. 953,895; Apr. 5; Sp. p. 418; Gaz. vol. 153; p. 76.
Chambers, Olive B., Walnut Springs, Tex. Gate-latch. No. 952,029; Mar. 15; Sp. p. 3192; Gaz. vol. 152; p. 574.
Chambers, Roscoe M., Earl, Nebr. Weeder. No. 962,940; June 28; Sp. p. 5666; Gaz. vol. 155; p. 992.
Chambless, James, Evansville, Ind. Motor attachment for motion-picture exhibitors. No. 973,917; Oct. 25; Sp. p. 5255; Gaz. vol. 159; p. 911.
Chambless, James A., Acme, Tex. Lock. No. 958,706; May 17; Sp. p. 4958; Gaz. vol. 154; p. 815.
Chambliss, William M. (See Taylor, Virgial P., assignor.)
Chambon, Louis, Paris, France. Machine for cutting paper, &c. No. 953,121; Mar. 29; Sp. p. 5472; Gaz. vol. 152; p. 999.
Chambre, Meredith, Ingleside, Nebr. Door-check. No. 952,511; Mar. 22; Sp. p. 4143; Gaz. vol. 152; p. 763.
Chamness, Frank, and J. P. Kriegbaum, Huntington, Ind. Electrically-operated switch. No. 977,595; Dec. 6; Sp. p. 412; Gaz. vol. 161; p. 61.
Champ, A., *et al.* (See Poe, James C., assignor.)
Champ, Joseph H., Cleveland, Ohio. Bottle-filling machine. No. 956,286; Apr. 26; Sp. p. 5640; Gaz. vol. 153; p. 983.
Champ, Joseph H., Cleveland, Ohio. Cut-off for fluid-pressure motors. No. 956,287; Apr. 26; Sp. p. 5651; Gaz. vol. 153; p. 983.
Champ, Joseph H., Cleveland, Ohio. Bottling-machine. No. 963,119; July 5; Sp. p. 243; Gaz. vol. 156; p. 32.
Champ, Joseph H., Cleveland, Ohio. Beer-reclaimer. No. 973,757; Oct. 25; Sp. p. 4916; Gaz. vol. 159; p. 855.
Champ, Joseph H., Cleveland, Ohio. Bottling-machine. No. 979,745; Dec. 27; Sp. p. 5028; Gaz. vol. 161; p. 878.
Champ, Joseph H., assignor to The Bishop & Babcock Company, Cleveland, Ohio. Bottle-filling machine. No. 956,285; Apr. 26; Sp. p. 5629; Gaz. vol. 153; p. 983.
Champ, Joseph H., and T. H. Schutt, assignors to The Bishop & Babcock Company, Cleveland, Ohio. Electric switch. No. 956,679; May 3; Sp. p. 374; Gaz. vol. 154; p. 62.
Champeney, Clifford C. (See Churchward, Burrows, and Champeney.)
Champeon, De Forrest, Houlton, Me. Car-wheel jack-stand. No. 958,364; May 17; Sp. p. 4296; Gaz. vol. 154; p. 701.
Champion, Albert, assignor to Champion Ignition Company, Flint, Mich. Insulator and conductor for electric currents. No. 959,052; May 24; Sp. p. 5718; Gaz. vol. 154; p. 960.
Champion Chemical Company, The. (See Pfeifer, John, assignor.)
Champion Ignition Company. (See Champion, Albert, assignor.)
Champion Ignition Company. (See Schmidt, Albert, assignor.)
Champion Manufacturing Company. (See Wright, Norman A., assignor.)
Champion Metal Weather Strip and Parting Bead Company. (See Faulkner, Charles H., assignor.)
Champion Safety Lock Company, The. (See Hasenpflug, Ezra W., assignor.)
Champion, Samuel K. (See Rickman, Robert L., assignor.) (Reissue.)
Champion Sanitary Bottle Seal Company, The. (See Hermann, Jacob, assignor.)
Champlin, Frank A. (See Burr, John A., assignor.)
Champlin, Frank A. (See Burton, James L., assignor.)
Champlin, Henry W., Walters Park, Pa. Vaginal irrigating-syringe. No. 962,313; June 21; Sp. p. 4354; Gaz. vol. 155; p. 752.
Chance, Edwin M., Philadelphia, and E. Kent, Lansdowne, Pa. Electrolytic separation of metal. No. 948,681; Feb. 8; Sp. p. 1912; Gaz. vol. 151; p. 328.
Chandeysson, Pierre I., assignor of one-half to S. W. and W. C. Forder, St. Louis, Mo. Cab-signal system. No. 966,796; Aug. 9; Sp. p. 2089; Gaz. vol. 157; p. 347.
Chandlee, George H., Chevy Chase, Md. Automobile attachment. No. 973,856; Oct. 25; Sp p. 5120; Gaz. vol. 159; p. 889.
Chandler, Ava I., Marion, Ohio. Holder for electric-light globes. No. 971,490; Sept. 27; Sp. p. 4937; Gaz. vol. 158; p. 864.
Chandler, Charles P. (See Lautzenhiser and Chandler.)
Chandler, Clarence A., East Bridgewater, Mass. Sawgummer. No. 948,953; Feb. 8; Sp. p. 2465; Gaz. vol. 151; p. 419.
Chandler, Edgar C., Philadelphia, Pa. Pattern mechanism for knitting-machines. No. 953,122; Mar. 29; Sp. p. 5474; Gaz. vol. 152; p. 1000.

Alphabetical list of patentees—Continued.

Chandler, Edgar C., Philadelphia, Pa. Pattern device for knitting-machines. No. 977,852; Dec. 6; Sp. p. 939; Gaz. vol. 161; p. 148.
Chandler, Edwin N., Brockton, assignor to Simplex Electric Heating Company, Boston, Mass. Edge setter and finisher. No. 977,510; Dec. 6; Sp. p. 201; Gaz. vol. 161; p. 31.
Chandler, Emanuel H., Brookhaven, Miss. Gearing for sawmills. No. 946,335; Jan. 11; Sp. p. 2913; Gaz. vol. 150; p. 483.
Chandler, Franklin F. (See Crowell, Melvin E., assignor.)
Chandler, Howard B., and J. A. Fleet, Portland, Me. Electric-lamp socket. No. 979,428; Dec. 27; Sp. p. 4333; Gaz. vol. 161; p. 769.
Chandler, Miles B., and M. Oosdyke, assignors to Wilmarth Show Case Company, Grand Rapids, Mich. Garment-support for wardrobes. No. 945,908; Jan. 11; Sp. p. 2014; Gaz. vol. 150; p. 334.
Chandler, Willard R., Branchville, S. C. Straight-air-brake attachment for automatic systems. No. 962,696; June 28; Sp. p. 5202; Gaz. vol. 155; p. 908.
Channing, John P., and F. J. Falding, New York, N. Y. Smelting pyritic ores. No. 968,020; June 28; Sp. p. 5818; Gaz. vol. 155; p. 1019.
Channing, John P., and F. J. Falding, New York, N. Y.; said Falding assignor to said Channing. Making sulfuric acid from smelter-gases. No. 962,493; June 28; Sp. p. 4761; Gaz. vol. 155; p. 839.
Chanonhouse, Frederick S., Everett, Mass., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Low-quad mold and actuating mechanism therefor. No. 952,604; Mar. 22; Sp. p. 4362; Gaz. vol. 152; p. 797.
Chantler, Joseph E., La Junta, Colo. Fastener for horse-collar pads. No. 962,125; June 21; Sp. p. 3958; Gaz. vol. 155; p. 688.
Chantrell Hardware & Tool Company. (See Seisler, Philip, assignor.)
Chanut, Léon H., Aubervilliers, France, assignor, by mesne assignments, to Asia Rubber Company of America. Separating rubber or rubber-like substances and resin from materials containing the same. No. 978,696; Dec. 13; Sp. p. 2761; Gaz. vol. 161; p. 471.
Chapin, Alfred K., Bristol, Conn., assignor to W. M. Bowes, New York, N. Y. Scissors and shears. No. 947,626; Jan. 25; Sp. p. 5852; Gaz. vol. 150; p. 971.
Chapin, Arthur S. (See Montgomery, Gray, and Chapin.)
Chapin, Henry K., *et al.* (See Pilsbury, Alice A., assignor.)
Chapin, Homer C., *et al.* (See Pilsbury, Alice A., assignor.)
Chapin, Louis N., New York, N. Y. Developing-tank. No. 958,993; May 24; Sp. p. 5600; Gaz. vol. 154; p. 941.
Chaplin-Fulton Manufacturing Company, The. (See Fulton, Louis B., assignor.)
Chapman, Archie, Pleasantville, Ohio. Crude-oil burner. No. 979,259; Dec. 20; Sp. p. 4018; Gaz. vol. 161; p. 691.
Chapman, Clifford M. (See McCardle and Chapman.)
Chapman, Eleanor M., Dallas, Tex. Buckle-fastening. No. 973,918; Oct. 25; Sp. p. 5257; Gaz. vol. 159; p. 912.
Chapman, Francis M. (See Keith, Thomas K., assignor.)
Chapman, Frederick S., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic starting device for mercury-vapor rectifiers. No. 969,523; Sept. 6; Sp. p. 793; Gaz. vol. 158; p. 124.
Chapman, George T., assignor to J. Floersheim Co., Chicago, Ill. Clasp. No. 967,610; Aug. 16; Sp. p. 3781; Gaz. vol. 157; p. 650.
Chapman, Howard D., Washington, D. C. Adjusting device. No. 945,909; Jan. 11; Sp. p. 2015; Gaz. vol. 150; p. 335.
Chapman, Howard T., *et al.* (See Carney, Lewis J., assignor.)
Chapman, James W., assignor to Manning, Bowman & Company, Meriden, Conn. Fluid-vapor stove. No. 950,997; Mar. 1; Sp. p. 1105; Gaz. vol. 152; p. 178.
Chapman, James W., assignor to Manning Bowman & Company, Meriden, Conn. Percolating device. No. 953,001; Mar. 22; Sp. p. 5188; Gaz. vol. 152; p. 931.
Chapman, James W., assignor to Manning, Bowman & Company, Meriden, Conn. Valved percolator-pot. No. 956,481; Apr. 26; Sp. p. 6061; Gaz. vol. 153; p. 1050.
Chapman, James W., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator-pot. No. 966,735; Aug. 9; Sp. p. 1930; Gaz. vol. 157; p. 327.
Chapman, James W., assignor to Manning, Bowman & Company, Meriden, Conn. Tea or coffee pot. No. 973,758; Oct. 25; Sp. p. 4919; Gaz. vol. 159; p. 855.
Chapman, James W., and E. A. Gutermann, assignors to Manning, Bowman & Company, Meriden, Conn. Alcohol-lamp. No. 956,482; Apr. 26; Sp. p. 6063; Gaz. vol. 153; p. 1051.
Chapman, John. (See Lawrence, George F., assignor.)
Chapman, Lewis S., Schenectady, N. Y., assignor to General Electric Company. Motor-controlling device. No. 958,365; May 17; Sp. p. 4297; Gaz. vol. 154; p. 701.
Chapman, Robert, *et al.* (See Carney, Lewis J., assignor.)
Chapman, Samuel E., Oakland, assignor of one-third to W. M. Woodward, Fruitvale, Cal. Vehicle-wheel. No. 963,990; July 12; Sp. p. 2144; Gaz. vol. 156; p. 350.
Chapman, Thomas A., Criglersville, Va., assignor of one-third to J. A. Strother, Welch, W. Va. Rail-joint. No. 980,065; Dec. 27; Sp. p. 5722; Gaz. vol. 161; p. 984.
Chapman, Thomas E., Pittsburg, Pa. Paper bag or sack. No. 956,941; May 3; Sp. p. 948; Gaz. vol. 154; p. 151.
Chapman, William A., Smithville, Ark. Reverberatory sound-horn. No. 957,654; May 10; Sp. p. 2449; Gaz. vol. 154; p. 424.
Chapman, William A., Smithville, Ark. Talking-machine attachment. No. 963,515; July 5; Sp. p. 1106; Gaz. vol. 156; p. 168.
Chapman, William B., assignor to W. B. Hopping, trustee, New York, N. Y. Gas-producer. No. 970,017; Sept. 13; Sp. p. 1891; Gaz. vol. 158; p. 322.
Chapman, William B., assignor to W. B. Hopping, trustee, New York, N. Y. Means for cleaning gas-flues. No. 973,759; Oct. 25; Sp. p. 4921; Gaz. vol. 159; p. 856.
Chappel, James M., Dallas, Tex. Lens-holder. No. 949,413; Feb. 15; Sp. p. 3447; Gaz. vol. 151; p. 601.
Chappel, James M., Dallas, Tex. Pliers. No. 975,385; Nov. 8; Sp. p. 2938; Gaz. vol. 160; p. 474.
Chappel, James M., New York, N. Y., assignor to C. S. Marsh, Winchester, Mass. Weighing-machine. No. 970,465; Sept. 20; Sp. p. 2815; Gaz. vol. 158; p. 493.
Chappel, James W., Dallas, Tex. Automatic time-controlled operating mechanism. No. 946,792; Jan. 18; Sp. p. 3978; Gaz. vol. 150; p. 662.
Chappell, Frank S., Bradford, Pa. Bundle or package tie. No. 959,310; May 24; Sp. p. 6254; Gaz. vol. 154; p. 1046.
Chappell, George H., New York, N. Y. Burglar-alarm. No. 971,729; Oct. 4; Sp. p. 465; Gaz. vol. 159; p. 80.
Chappell, George P., New York, N. Y. Forming tiling. No. 957,187; May 10; Sp. p. 1476; Gaz. vol. 154; p. 263.
Chappell, George P., New York, N. Y. Forming ornamental tiling. No. 957,188; May 10; Sp. p. 1477; Gaz. vol. 154; p. 264.
Chappell, George P., New York, N. Y. Tile-board. No. 957,189; May 10; Sp. p. 1479; Gaz. vol. 154; p. 264.
Charles Boldt Company, The. (See Taylor, Thomas H., assignor.)
Charles, Burton R., Portland, Oreg. Foot-warming attachment for electrothermal garments. No. 969,147; Aug. 30; Sp. p. 7032; Gaz. vol. 157; p. 1223.
Charles, Burton R., Portland, Oreg. Combined electric iron and stove. No. 975,936; Nov. 15; Sp. p. 4084; Gaz. vol. 160; p. 689.
Charles E. Hall Company. (See Hall and Dicks, assignors.)
Charles E. Reed & Company. (See Reed, Charles E., assignor.)
Charles, George M., Washington, D. C. Fountain-comb. No. 971,250; Sept. 27; Sp. p. 4504; Gaz. vol. 158; p. 788.
Charles J. Tagliabue Manufacturing Co. (See Roesch, Alfred, assignor.)
Charles Parker Company, The. (See Walker, Eli M., assignor.)
Charles W. Shonk Company. (See Shonk, Charles W., assignor.)
Charles Wirt and Company. (See Wirt, Charles, assignor.)
Charley, John J., Kew, Victoria, Australia. Vehicle-gearing. No. 967,728; Aug. 16; Sp. p. 4017; Gaz. vol. 157; p. 688.
Charley, Meritt. (See McKenzie and Charley.)
Charlottenburger Farbwerke Aktiengesellschaft. (See Wagner, Hubert, assignor.) (Reissue.)
Charlton, Luther W., Washington, D. C. Paper receptacle. No. 961,339; June 14; Sp. p. 2273; Gaz. vol. 155; p. 401.
Charon, Arthur J., Greenfield, Mass. Necktie. No. 964,755; July 19; Sp. p. 3850; Gaz. vol. 156; p. 641.
Charpentier, Edouard, Nashua, assignor to Laconia Mop-Pail and Wringer Company, Incorporated, Laconia, N. H. Mop-wringer. No. 955,044; Apr. 26; Sp. p. 4883; Gaz. vol. 153; p. 864.
Charpentier, Joseph O., Concord, N. H. Hammer for tinsmiths, &c. No. 958,595; May 17; Sp. p. 4746; Gaz. vol. 154; p. 779.
Charpentier, Marianne, Laconia, N. H. Mop-wringer attachment for pails. No. 967,497; Aug. 16; Sp. p. 3568; Gaz. vol. 157; p. 612.
Charpentier, Zepherin P., Auburn, Me. Sanding-machine. No. 967,729; Aug. 16; Sp. p. 4021; Gaz. vol. 157; p. 689.
Charpiat, Louis, New York, N. Y. Repetition-action for grand pianos. No. 959,716; May 31; Sp. p. 7103; Gaz. vol. 154; p. 1206.
Chartener, Victor, assignor of one-fourth to J. Ramsey, Pittsburg, one-fourth to E. Burcik and one-fourth to W. Stark, Knoxville, Pa. Sheet-embossing mill. No. 969,460; Sept. 6; Sp. p. 639; Gaz. vol. 158; p. 102.
Charter, James A., assignor to Austin Manufacturing Company, Chicago, Ill. Cooling device for gas-engines. No. 954,780; Apr. 12; Sp. p. 2353; Gaz. vol. 153; p. 407.
Charter, James A., assignor to Austin Manufacturing Company, Chicago, Ill. Frame construction for gas-engines. No. 955,632; Apr. 19; Sp. p. 4182; Gaz. vol. 153; p. 728.
Chartier, Oda H., Hennessey, Okla. Harrow attachment. No. 968,834; Aug. 30; Sp. p. 6398; Gaz. vol. 157; p. 1115.
Chase, Abner, Syracuse, N. Y. Combined vegetable parer and corer. No. 948,573; Feb. 8; Sp. p. 1674; Gaz. vol. 151; p. 292.

Alphabetical list of patentees—Continued.

Chase & Baker Company, The. (See Bayer, William F., assignor.)
Chase, Clark. (See Gardner, Chase, and Kent.)
Chase, Elroy A., Northfield, Vt., assignor to American Granite Saw Company, Kittery, Me. Stone-cutting machine. (Reissue.) No. 13,134; July 19; Sp. p. 4635; Gaz. vol. 156; p. 773.
Chase Foundry and Manufacturing Company, The. (See Chase, Sherwood M., assignor.)
Chase, Frank H., Chicago, Ill. Stamp-cabinet. No. 978,560; Dec. 13; Sp. p. 2487; Gaz. vol. 161; p. 425.
Chase, Frank H., assignor to Standard Earth Auger Company, Chicago, Ill. Earth-auger. No. 978,559; Dec. 13; Sp. p. 2486; Gaz. vol. 161; p. 424.
Chase, Grant. (See Stevens, Sidney M., assignor.)
Chase, Harold M., and M. F. H. Gouverneur, Wilmington, N. C. Stabilizing means for aeroplanes. No. 963,516; July 5; Sp. p. 1112; Gaz. vol. 156; p. 169.
Chase, Harold M., and M. F. H. Gouverneur, Wilmington, N. C. Controlling mechanism. No. 965,081; July 19; Sp. p. 4510; Gaz. vol. 156; p. 751.
Chase, Henry M., Holyoke, Mass. Game device. No. 961,714; June 14; Sp. p. 3034; Gaz. vol. 155; p. 525.
Chase, Jehu V., Newport, R. I. Pressure reducing and regulating valve. No. 952,416; Mar. 15; Sp. p. 3931; Gaz. vol. 152; p. 704.
Chase Machine Company, The. (See Metcalf and Carson, assignors.)
Chase-Shawmut Company, The. (See Luther, Benjamin S., assignor.)
Chase-Shawmut Company. (See Stuart, William G., assignor.)
Chase, Sherwood M., assignor to The Chase Foundry and Manufacturing Company, Columbus, Ohio. Adjustable journal-box for trucks. No. 979,648; Dec. 27; Sp. p. 4819; Gaz. vol. 161; p. 846.
Chase, William, Jr., Indianapolis, Ind. Circular glass-cutter. No. 959,311; May 24; Sp. p. 6254; Gaz. vol. 154; p. 1046.
Chastant, Agricole F., Pascagoula, Miss. Mosquito-bar support. No. 949,620; Feb. 15; Sp. p. 3840; Gaz. vol. 151; p. 669.
Chateau, Justin, and J. Merklen, Paris, France. Preserving wood. No. 945,693; Jan. 4; Sp. p. 1462; Gaz. vol. 150; p. 229.
Chatel, Joseph P., Manchester, N. H. Bobbin for looms. No. 976,120; Nov. 15; Sp. p. 4437; Gaz. vol. 160; p. 752.
Chatellier, John, Arlington, N. J. Cigarette-case. No. 951,592; Mar. 8; Sp. p. 2291; Gaz. vol. 152; p. 397.
Chatfield, Franklin, Minneapolis, Minn. Fabric-stretching machine. No. 964,088; July 12; Sp. p. 2337; Gaz. vol. 156; p. 385.
Chatfield, Franklin, assignor to Northwestern Knitting Co., Minneapolis, Minn. Sewing-machine. No. 961,207; June 14; Sp. p. 1961; Gaz. vol. 155; p. 354.
Chatham, Edwin C., Oakland, Cal. Antifriction-bearing. No. 973,170; Oct. 18; Sp. p. 3682; Gaz. vol. 159; p. 631.
Chatterson, Albert E. (See Copeland and Chatterson.)
Chatwell, Edward I., Weatherford, Tex. Jack. No. 977,596; Dec. 6; Sp. p. 413; Gaz. vol. 161; p. 61.
Chauncey, James W., Alexandria, Va. Shears. No. 976,121; Nov. 15; Sp. p. 4439; Gaz. vol. 160; p. 752.
Chavanne, Irenée A., and B. Ollagnier, St. Chamond, France. Centrifugal bolting-machine. No. 964,144; July 12; Sp. p. 2453; Gaz. vol. 156; p. 403.
Chavassieu, Henri L. J., Lyon, France. Obtaining proteo-cellulosic products. No. 950,435; Feb. 22; Sp. p. 5594; Gaz. vol. 151; p. 981.
Cheatham, Archibald T., *et al.* (See Dodson, Charles I., assignor.)
Cheatham Electric Switching Device Company. (See Cheatham, Robert V., assignor.)
Cheatham Electric Switching Device Company. (See Olmsted, Elmer S., assignor.)
Cheatham, Robert V., St. Matthews, assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Switch-operating mechanism. No. 947,053; Jan. 18; Sp. p. 4545; Gaz. vol. 150; p. 750.
Cheek, Henry M., Little Rock, Ark. Switch-throw. No. 948,206; Feb. 1; Sp. p. 872; Gaz. vol. 151; p. 143.
Cheek, Henry M., assignor of one-half to J. A. Fretwell, Little Rock, Ark. Irrigating apparatus. No. 971,879; Oct. 4; Sp. p. 781; Gaz. vol. 159; p. 136.
Cheeseman, Lewis, Scranton, Pa. Removing hair from hides. No. 945,221; Jan. 4; Sp. p. 446; Gaz. vol. 150; p. 74.
Cheistian, William T., Dallas, Tex. Oil-burner attachment for stoves. No. 955,499; Apr. 19; Sp. p. 3890; Gaz. vol. 153; p. 683.
Chelf, Simeon D., Kensington, Kans. Envelop. No. 952,875; Mar. 22; Sp. p. 4941; Gaz. vol. 152; p. 889.
Chellis, Eugene D., assignor to National Metal Seal Company, Portland, Me. Closure for containing vessels. No. 978,432; Dec. 13; Sp. p. 2191; Gaz. vol. 161; p. 380.
Chelson, Theodore A., and H. J. Benedict, Los Angeles, Cal. Book-marker. No. 952,185; Mar. 15; Sp. p. 3471; Gaz. vol. 152; p. 625.
Chemical Development Co. (See Ramage, Alexander S., assignor.)
Chemical Products Company. (See Mork, Harry S., assignor.)
Chemical Works formerly Sandoz. (See Böniger, Melchior, assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Rehländer, Paul, assignor.)
Chemische Fabrik Griesheim Electron. (See Pistor and Rakowicz, assignors.)
Chemische Fabrik Griesheim Electron. (See Schick, Karl, assignor.)
Chemische Fabrik Griesheim Elektron. (See Hoffmann, Berthold, assignor.)
Chemische Fabrik Griesheim-Elektron. (See Laska, August L., assignor.)
Chemische Fabrik Griesheim-Elektron. (See Reitz, Heinrich, assignor.)
Chemische Fabrik Griesheim Elektron. (See Schnitzspahn, Karl, assignor.)
Chemische Fabrik Grünau Landshoff and Meyer Aktiengesellschaft. (See Franke, Emil, assignor.)
Chemische Fabrik von Heyden, Aktiengesellschaft. (See Seifert and Hähle, assignors.)
Chemische Werke vorm. Dr. Heinrich Byk. (See Grüter and Pohl, assignors.)
Chenery, William E. (See Brown and Chenery.)
Cheney, Edwin H., Oak Park, Ill. Boiler-setting. No. 952,232; Mar. 15; Sp. p. 3569; Gaz. vol. 152; p. 641.
Cheney, Fern L., Pawtucket, assignor, by mesne assignments, to National Shoe Supply Company, Providence, R. I. Machine for setting lacing-hooks. No. 948,268; Feb. 1; Sp. p. 990; Gaz. vol. 151; p. 163.
Cheney, Herbert N., Boston, Mass. Appliance for controlling the making of water-gas. No. 978,268; Dec. 13; Sp. p. 1852; Gaz. vol. 161; p. 324.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Resistance-grid. No. 945,082; Jan. 4; Sp. p. 161; Gaz. vol. 150; p. 26.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Multiple-voltage system of motor control. No. 960,505; June 7; Sp. p. 539; Gaz. vol. 155; p. 89.
Cheney, Herbert W., assignor to Allis-Chalmers Company, Milwaukee, Wis. Engineer's valve. No. 961,083; June 7; Sp. p. 1708; Gaz. vol. 155; p. 284.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Motor-controller. No. 965,280; July 26; Sp. p. 4912; Gaz. vol. 156; p. 847.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Resistance-grid. No. 973,000; Oct. 18; Sp. p. 3287; Gaz. vol. 159; p. 572.
Cheney, Herbert W., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Power-operated switch or circuit-breaker. No. 960,504; June 7; Sp. p. 531; Gaz. vol. 155; p. 88.
Cheney, Herbert W., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Time-limit protective device for electric circuits. No. 962,817; June 28; Sp. p. 5439; Gaz. vol. 155; p. 951.
Cheney, Herbert W., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Switch. No. 976,549; Nov. 22; Sp. p. 5467; Gaz. vol. 160; p. 923.
Cheney, Van Renselear, Los Angeles, Cal. Door-hanger. No. 951,498; Mar. 8; Sp. p. 2114; Gaz. vol. 152; p. 366.
Chenoweth, Alexander C., New York, assignor of one-half to J. McNamee, Brooklyn, N. Y. Machine for making reinforced-concrete piles, columns, and the like. No. 968,125; Aug. 23; Sp. p. 4865; Gaz. vol. 157; p. 844.
Cherry, Albert B., Boston, assignor to S. Ascher, Brookline, and T. E. Cherry, Revere, Mass. Lifting-jack. No. 945,489; Jan. 4; Sp. p. 1052; Gaz. vol. 150; p. 162.
Cherry, Harold E., Burton-on-Trent, England. Wheel of vehicles. No. 948,042; Feb. 1; Sp. p. 551; Gaz. vol. 151; p. 88.
Cherry, Louis B., assignor to The Ball Multi-Spark Plug Co., Aberdeen, S. D. Jump-spark igniter-plug. No. 962,314; June 21; Sp. p. 4355; Gaz. vol. 155; p. 752.
Cherry, Peterson H., Los Angeles, Cal. Fume-producing device. No. 978,561; Dec. 13; Sp. p. 2490; Gaz. vol. 161; p. 425.
Cherry, Thomas E., *et al.* (See Cherry, Albert B., assignor.)
Cheshire, Carey A. (See Brewer and Cheshire.)
Cheshire, Edward, Milwaukee, Wis. Sheet-register device. No. 964,756; July 19; Sp. p. 3851; Gaz. vol. 156; p. 641.
Chester, Charles E. (See Thomas, George J., assignor.)
Chester, Christian L., Belle Vernon, Pa. Window appliance. No. 977,930; Dec. 6; Sp. p. 1104; Gaz. vol. 161; p. 176.
Chesterman and Streeter. (See Saxe, Earl H., assignor.)
Chevers, Aurion V., Boston, Mass. Musical pipe. No. 951,801; Mar. 15; Sp. p. 2729; Gaz. vol. 152; p. 498.
Chevrette, Augustin J., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Thread-cutting mechanism for looms. No. 955,581; Apr. 19; Sp. p. 4044; Gaz. vol. 153; p. 710.
Chevrette, Augustin J., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom. No. 960,820; June 7; Sp. p. 1176; Gaz. vol. 155; p. 196.

Alphabetical list of patentees—Continued.

Chew, Owen S., Brookfield township, Trumbull county, Ohio. Trolley-wheel. No. 957,655; May 10; Sp. p. 2452; Gaz. vol. 154; p. 424.
Cheyne, Frederick H., Indianapolis, Ind. Speed-varying transmission. No. 950,368; Feb. 22; Sp. p. 5466; Gaz. vol. 151; p. 958.
Chiantore, Pilade, Turin, Italy. Moving target. No. 957,742; May 10; Sp. p. 2630; Gaz. vol. 154; p. 454.
Chicago Car Seal Company. (See Campbell, Leon J., assignor.)
Chicago Fuse Wire & Manufacturing Company. (See Appleton and Hoffmann, assignors.)
Chicago Fuse Wire & Manufacturing Company. (See Hoffmann, Otto C., assignor.)
Chicago Linotabler Company. (See Stevenson, Ashton G., assignor.)
Chicago Lubricator Company, The. (See Edwards, Frank W., assignor.)
Chicago Metal Weather Strip Company. (See Hedberg, Peter L., assignor.)
Chicago Pneumatic Tool Company. (See Carpenter, Allan O., assignor.)
Chicago Pneumatic Tool Company. (See Mackie and Doyle, assignors.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chicago Railway Equipment Company. (See Cornwall, Frederick R., assignor.)
Chicago Railway Equipment Company. (See De Long, Frederick T., assignor.)
Chicago Railway Equipment Company. (See Harrison, Philip B., assignor.)
Chicago Railway Equipment Company. (See Haskell, Broderick, assignor.)
Chicago Railway Equipment Company. (See Le Beau, Ernest A., assignor.)
Chicago Railway Equipment Company. (See Porter, Lemuel, assignor.)
Chicago Railway Equipment Company. (See Porter and Williams, assignors.)
Chicago Railway Equipment Company. (See Rissler, Albin P., assignor.)
Chicago Railway Equipment Company. (See Williams, Charles H., Jr., assignor.)
Chicago Spring Butt Company. (See Keene and Schuster, assignors.)
Chidlow, David, Washington, D. C. Composition for use in bread-making. No. 976,343; Nov. 22; Sp. p. 5011; Gaz. vol. 160; p. 851.
Chief Manufacturing Company. (See Horlacher and Baase, assignors.)
Chilcote, James F., Portland, Oreg. Lever mechanism. No. 965,082; July 19; Sp. p. 4512; Gaz. vol. 156; p. 751.
Chilcote, Lewis. (See Ramey and Chilcote.)
Child, Edmund S. J., assignor to Duncan-Woolworth Company, Albany, N. Y. Box. No. 948,967; Feb. 8; Sp. p. 2492; Gaz. vol. 151; p. 424.
Child, Robert C. (See Ogden and Child.)
Childers, James R., Moberly, Mo. Smoke-stack. No. 946,958; Jan. 18; Sp. p. 4372; Gaz. vol. 150; p. 718.
Childress, George F., Wills Point, Tex. Gun-muffler. No. 953,943; Apr. 5; Sp. p. 514; Gaz vol. 153; p. 93.
Childress, Joseph M. (See Neal and Childress.)
Childs, Ellsworth, New York, N. Y. Cotton-harvester. No. 949,260; Feb. 15; Sp. p. 3105; Gaz. vol. 151; p. 548.
Childs, Joseph G., Willesden Green, London, England. Wind-turbine. No. 963,359; July 5; Sp. p. 792; Gaz. vol. 156; p. 117.
Childs, Lysander D., Chester, S. C. Spirometer. No. 952,307; Mar. 15; Sp. p. 3726; Gaz. vol. 152; p. 667.
Chilimidos, Periclis, Philadelphia, Pa. Lubricator. No. 947,568; Jan. 25; Sp. p. 5727; Gaz. vol. 150; p. 951.
Chilsen, Anfen S., Merrill, Wis. Rail-fastener. No. 964,213; July 12; Sp. p. 2579; Gaz. vol. 156; p. 425.
Chippendale, Harry A., assignor to J. Sweeney, New London, Conn. Cigar-cutter forming part of a combination-tool. No. 958,092; May 17; Sp. p. 3594; Gaz. vol. 154; p. 606.
Chipperfield, Walter, Romford, England. Type-carrier. No. 955,849; Apr. 26; Sp. p. 4668; Gaz. vol. 153; p. 831.
Chipperfield, Walter, Romford, England. Inking device. No. 979,649; Dec. 27; Sp. p. 4820; Gaz. vol. 161; p. 846.
Chisholm, Charles L., Marysville, New Brunswick, Canada. Telephone-transmitter. No. 964,214; July 12; Sp. p. 2581; Gaz. vol. 156; p. 426.
Chisholm, Charles L., Marysville, New Brunswick, Canada. Means for reproducing sound from sound-records. No. 968,539; Aug. 30; Sp. p. 5758; Gaz. vol. 157; p. 1014.
Chisholm, Charles L., Marysville, New Brunswick, Canada, assignor of one-sixteenth to C. Sadler, Edmonton, Canada. Microphonic transmitter. No. 964,145; July 12; Sp. p. 2455; Gaz. vol. 156; p. 403.
Chisholm, Daniel A., Gilby, N. D. Track-weeder. No. 972,058; Oct. 4; Sp. p. 1192; Gaz. vol. 159; p. 201.
Chisholm, William R., Pittsburg, Pa. Metal and concrete pole or post. No. 964,491; July 19; Sp. p. 3156; Gaz. vol. 156; p. 549.
Chisolm, William B., Charleston, S. C. Preserving wood. No. 955,762; Apr. 19; Sp. p. 4471; Gaz. vol. 153; p. 772.
Chisolm, William B., Charleston, S. C. Impregnating wood. No. 965,154; July 26; Sp. p. 4659; Gaz. vol. 156; p. 807.
Chisum, John C., *et al.* (See Wallace, William A., assignor.)
Chisum, William A., *et al.* (See Wallace, William A., assignor.)
Chlad, James W., Chicago, Ill. Indoor swing. No. 955,135; Apr. 19; Sp. p. 3110; Gaz. vol. 153; p. 558.
Chlan, Frank C., Baltimore, Md. Hat-pin device. No. 947,223; Jan. 25; Sp. p. 4891; Gaz. vol. 150; p. 834.
Choate, Alonzo B. (See Horton and Choate.)
Choate, Charles N., Woodstock, Ontario, Canada, assignor of one-half to F. E. Van Atta, Pontiac, Mich. Churn. No. 978,562; Dec. 13; Sp. p. 2493; Gaz. vol. 161; p. 426.
Choate, Charles N., assignor of one-third to W. C. Rean and one-third to S. Taggart, Woodstock, Ontario, Canada. Cement-block machine. No. 947,569; Jan. 25; Sp. p. 5729; Gaz. vol. 150; p. 952.
Choate, George H., Hailey, Idaho. Lawn-sprinkler. No. 949,520; Feb. 15; Sp. p. 3645; Gaz. vol. 151; p. 635.
Chong, Edward, Los Angeles, Cal. Making noodles. No. 945,222; Jan. 4; Sp. p. 448; Gaz. vol. 150; p. 74.
Choquette, Joseph A., and J. C. Dallas, Boston, Mass. Boot and shoe polishing machine. No. 968,540; Aug. 30; Sp. p. 5762; Gaz. vol. 157; p. 1014.
Chovan, Gustave, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil for dynamo-electric machines. No. 957,866; May 17; Sp. p. 2896; Gaz. vol. 154; p. 525.
Chowning, Le Roy C., Corning, N. Y. Timer for internal-combustion engines. No. 949,392; Feb. 15; Sp. p. 3402; Gaz. vol. 151; p. 594.
Chreitzberg, Hilliard F., Monroe, N. C. Coin-operated lock. No. 957,743; May 10; Sp. p. 2632; Gaz. vol. 154; p. 454.
Christ, Albert F., Mascoutah, Ill. Fence-wire-reeling apparatus. No. 946,012; Jan. 11; Sp. p. 2231; Gaz. vol. 150; p. 370.
Christ, Henry K. (See Christ, Isaac and H. K.)
Christ, Isaac, Tamaqua, and H. K. Christ, Mahanoy City, Pa. Ore, mineral, and coal breaker. No. 962,998; June 28; Sp. p. 5779; Gaz. vol. 155; p. 1012.
Christensen, Carl, Bradley, assignor, by mesne assignments, to Sears, Roebuck & Company, Chicago, Ill. Seat for agricultural implements. No. 957,411; May 10; Sp. p. 1970; Gaz. vol. 154; p. 341.
Christensen, Charles, Chicago, Ill. Apparatus for dispensing mobile substances. No. 959,717; May 31; Sp. p. 7105; Gaz. vol. 154; p. 1206.
Christensen, Christ, Indianapolis, Ind., assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Counter-support for voting-machines. No. 972,506; Oct. 11; Sp. p. 2149; Gaz. vol. 159; p. 373.
Christensen, Christ, Indianapolis, Ind., assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Actuator cut-off for voting-machines. No. 972,507; Oct. 11; Sp. p. 2152; Gaz. vol. 159; p. 373.
Christensen, Christian H., assignor of forty-five one-hundredths to D. L. Sloan, Palo Alto, Cal. Siphon-closet. No. 957,306; May 10; Sp. p. 1752; Gaz. vol. 154; p. 306.
Christensen, Christian P., Copenhagen, Denmark. Color photography. No. 979,129; Dec. 20; Sp. p. 3736; Gaz. vol. 161; p. 647.
Christensen, Conrad M., Leeds, N. D. Car-door. No. 975,209; Nov. 8; Sp. p. 2577; Gaz. vol. 160; p. 415.
Christensen, Erastus M., and O. H. Jensen, Shelley, Idaho. Railway-tie. No. 960,273; June 7; Sp. p. 66; Gaz. vol. 155; p. 14.
Christensen, Hans, assignor of one-half to C. Palm, Fort Atkinson, Wis. Pasteurizer. No. 957,035; May 3; Sp. p. 1160; Gaz. vol. 154; p. 183.
Christensen, Henry, Tomah, Wis. Cream-ripener. No. 965,687; July 26; Sp. p. 5822; Gaz. vol. 156; p. 990.
Christensen, Jacob, Racine, Wis. Canister. No. 964,757; July 19; Sp. p. 3854; Gaz. vol. 156; p. 642.
Christensen, Martin J., Chicago, Ill. Mechanism for elevating liquids. No. 957,656; May 10; Sp. p. 2453; Gaz. vol. 154; p. 424.
Christensen, Niels. (See Rhett, James M., assignor.)
Christensen, Niels, Chicago, Ill. Liquid-shaker. No. 977,165; Nov. 29; Sp. p. 6836; Gaz. vol. 160; p. 1160.
Christensen, Peter V., Copenhagen, Denmark, assignor to Aktiebolaget L. M. Ericsson & Co., Stockholm, Sweden. Call-distributing switch. No. 959,462; May 31; Sp. p. 6572; Gaz. vol. 154; p. 1122.
Christenson, Algot L., Stockholm, Sweden. Blue-milk outlet in centrifugal separators. No. 971,593; Oct. 4; Sp. p. 180; Gaz. vol. 159; p. 33.
Christian, Andrew W. (See Schlosser and Christain.)
Christian, Oliver. (See Dumont, Joseph, assignor.)
Christiansen, Axel K., Greenfield, Mass. Foot-rest chair. No. 961,715; June 14; Sp. p. 3035; Gaz. vol. 155; p. 526.
Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburg, Pa. Swivel-plate for motor-trucks. No. 947,792; Feb. 1; Sp. p. 28; Gaz. vol. 151; p. 7.
Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburg, Pa. Door-operating device for cars. No. 947,793; Feb. 1; Sp. p. 30; Gaz. vol. 151; p. 8.

Alphabetical list of patentees—Continued.

Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburg, Pa. Steel-car frame. No. 955,850; Apr. 26; Sp. p. 4672; Gaz. vol. 153; p. 832.

Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburg, Pa. Swinging buffer. No. 962,818; June 28; Sp. p. 5441; Gaz. vol. 155; p. 951.

Christianson, Andrew, Butler, assignor to Forged Steel Wheel Company, Pittsburg, Pa. Apparatus for transferring and removing mandrels from car-wheel blanks. No. 967,169; Aug. 16; Sp. p. 2885; Gaz. vol. 157; p. 499.

Christianson, Harry C., Fanwood, N. J. Sugar manufacture. No. 968,327; Aug. 23; Sp. p. 5314; Gaz. vol. 157; p. 916

Christie, Evi W., Sewaren, and T. Roberts, Roselle Park, N. J., assignors to Wheeler Condenser and Engineering Company, Carteret, N. J. Condenser. No. 978,697; Dec. 13; Sp. p. 2763; Gaz. vol. 161; p. 471.

Christie, Lewis D., Bridgeport, Conn. Non-skidding device. No. 966,082; Aug. 2; Sp. p. 510; Gaz. vol. 157; p. 83.

Christie, Walter, New York, N. Y. Motor-vehicle. No. 965,083; July 19; Sp. p. 4514; Gaz. vol. 156; p. 752.

Christman, Edward. (See Moon and Christman.)

Christman, Philip D., Bryan, Ohio. Detachable strap-tightener. No. 978,357; Dec. 13; Sp. p. 2031; Gaz. vol. 161; p. 354.

Christmas, William W., assignor of forty-nine one-hundredths to C. M. Fulton and T. W. Buckey, Washington, D. C., and L. C. McLeod, Astoria, Oreg. Flying-machine. No. 957,744; May 10; Sp. p. 2633; Gaz. vol. 154; p. 455.

Christoffersen, Hans, Tilden, Nebr. Cultivator attachment. No. 949,218; Feb. 15; Sp. p. 3004; Gaz. vol. 151; p. 533.

Christofferson, Silas, N. T. Woods, and W. E. Jones, assignors to Christofferson-Woods Carburetor Co., Portland, Oreg. Carbureter. No. 976,344; Nov. 22; Sp. p. 5013; Gaz. vol. 160; p. 851.

Christofferson-Woods Carburetor Co. (See Christofferson, Woods, and Jones, assignors.)

Christoph, Emil A., Chicago, Ill. Safety-razor. No. 971,827; Oct. 4; Sp. p. 655; Gaz. vol. 159; p. 115.

Christopher, William P., and C. de Lukacsevics, New York, N. Y. Siphon. No. 946,533; Jan. 18; Sp. p. 3438; Gaz. vol. 150; p. 577.

Christy, Henry A. (See Jager, Frank, assignor.)

Christy, Henry A., Kenilworth, Ill. Match. No. 953,659; Mar. 29; Sp. p. 6625; Gaz. vol. 152; p. 1182.

Christy, Henry A., Kenilworth, Ill. Car-door. No. 955,381; Apr. 19; Sp. p. 3639; Gaz. vol. 153; p. 641.

Christy, Henry A., Kenilworth, Ill. Car-door. No. 975,749; Nov. 15; Sp. p. 3706; Gaz. vol. 160; p. 625.

Christy, Henry A., Kenilworth, Ill. Rail-joint. No. 976,985; Nov. 29; Sp. p. 6425; Gaz. vol. 160; p. 1098.

Christy, Wesley, Globe, Ariz. Pipe-joint. No. 967,611; Aug. 16; Sp. p. 3782; Gaz. vol. 157; p. 650.

Chriswell, Frederick W., assignor to Seattle Car Manufacturing Company, Seattle, Wash. Logging-car bunk and block. No. 979,650; Dec. 27; Sp. p. 4824; Gaz. vol. 161; p. 846.

Chritchfield, Samuel, National Military Home, Ohio. Burglar-alarm. No. 956,288; Apr. 26; Sp. p. 5654; Gaz. vol. 153; p. 984.

Chrome Steel Works. (See Carroll, Alexander W., assignor.)

Chromography Limited. (See Geisler, Louis, assignor.)

Chronik, August and L., New York, N. Y. Thread-counting apparatus. No. 970,795; Sept. 20; Sp. p. 3562; Gaz. vol. 158; p. 609.

Chronik, August and L., New York, N. Y. Film-perforating machine. No. 979,429; Dec. 27; Sp. p. 4334; Gaz. vol. 161; p. 769.

Chronik, Louis. (See Chronik, August and L.)

Chubb, William M., San Francisco, Cal. Electric-control system. No. 963,867; July 12; Sp. p. 1888; Gaz. vol. 156; p. 310.

Church, Andrew and C. A., Adrian, Mich. Means for clamping fences to stretcher-jacks. No. 959,842; May 31; Sp. p. 7385; Gaz. vol. 154; p. 1250.

Church, Charles A. (See Church, Andrew and C. A.)

Church, Charles P. (See Crouch, Frank J., assignor.)

Church, Edmund S., Dayton, Ohio, assignor to Hayner Distilling Company. Bottle-stopper. No. 972,508; Oct. 11; Sp. p. 2153; Gaz. vol. 159; p. 373.

Church, Edmund S., Dayton, Ohio, assignor to The Hayner Distilling Company. Bottle-stopper. No. 974,122; Nov. 1; Sp. p. 30; Gaz. vol. 160; p. 8.

Church, Edmund S., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 974,952; Nov. 8; Sp. p. 1987; Gaz. vol. 160; p. 327.

Church, Herbert B., assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Machine for making safety-pins. No. 962,126; June 21; Sp. p. 3959; Gaz. vol. 155; p. 689.

Church, Herbert E., and W. V. Cowden, Afton, N. Y. Window-bead fastener and the like. No. 979,430; Dec. 27; Sp. p. 4336; Gaz. vol. 161; p. 760.

Church, Lewis H., assignor to The Standard Electric Fittings Company, Stamford, Conn. Electric-cable connection. No. 979,651; Dec. 27; Sp. p. 4827; Gaz. vol. 161; p. 847.

Church, Lewis H., assignor to The Standard Electric Fittings Company, Stamford, Conn. Gas connection for outlet-boxes. No. 979,652; Dec. 27; Sp. p. 4829; Gaz. vol. 161; p. 847.

Church, May E., Boston, Mass. Educational game device. No. 972,335; Oct. 11; Sp. p. 1777; Gaz. vol. 159; p. 312.

Church, William, Northampton, England. Measuring apparatus for bootmakers. No. 962,744; June 28; Sp. p. 5297; Gaz. vol. 155; p. 925.

Church, William, Northampton, England. Device for measuring feet, lasts, and the like. No. 973,475; Oct. 25; Sp. p. 4322; Gaz. vol. 159; p. 758.

Churchill, Charles O. (See Nelson and Churchill.)

Churchill, Clarence E., Dixie, Idaho. Fastener for packages. No. 947,195; Jan. 18; Sp. p. 4819; Gaz. vol. 150; p. 794.

Churchill, Durand, Chicago, Ill. Lock for locker-doors. No. 973,001; Oct. 18; Sp. p. 3288; Gaz. vol. 159; p. 572.

Churchill, Edwin B (See Beattie, Boynton, and Churchill.)

Churchill, Oscar P., and M. E. Risk, Shamrock, Tex. Portable water-heater. No. 962,941; June 28; Sp. p. 5668; Gaz. vol. 155; p. 993.

Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Signaling-lens. No. 974,123; Nov. 1; Sp. p. 33; Gaz. vol. 160; p. 9.

Churchward, George J., G. H. Burrows, and C. C. Champeney, Swindon, England. Steam-superheater. No. 969,088; Aug. 30; Sp. p. 6903; Gaz. vol. 157; p. 1202.

Churton, Alfred S., Chicago, Ill. Adjustable headlight. No. 959,920; May 31; Sp. p. 7560; Gaz. vol. 154; p. 1277.

Chute, Harry O., New York, N. Y. Manufacture of alcohol and by-products and apparatus therefor. No. 963,275; July 5; Sp. p. 632; Gaz. vol. 156; p. 88.

Chute, Harry O., and F. L. Randel, New York, N. Y. Producing rubber. No. 957,495; May 10; Sp. p. 2137; Gaz. vol. 154; p. 370.

Chytraus, Emil F., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Device for cutting insulation from conductors. No. 969,339; Sept. 6; Sp. p. 393; Gaz. vol. 158; p. 64.

Ciardelli, Luigi, Barre, Vt. Lewis. No. 956,938; May 3; Sp. p. 942; Gaz. vol. 154; p. 151.

Ciarkowski, Sofia K. (See Ciarkowski, Stanislaw, assignor.)

Ciarkowski, Stanislaw, assignor of one-fourth to S. K. Ciarkowski, Jersey City, N. J. Automatic weighing-machine. No. 967,868; Aug. 16; Sp. p. 4293; Gaz. vol. 157; p. 735.

Cibulas, Alexander, Hudson, N. Y. Sanitary smoking-pipe. No. 954,020; Apr. 5; Sp. p. 665; Gaz. vol. 153; p. 119.

Cibulas, Stephen E., assignor to The G. Drouve Company, Bridgeport, Conn. Window-operating device. No. 954,851; Apr. 12; Sp. p. 2532; Gaz. vol. 153; p. 432.

Cibulas, Stephen E., assignor to The G. Drouve Company, Bridgeport, Conn. Window. No. 970,988; Sept. 20; Sp. p. 3930; Gaz. vol. 158; p. 671.

Cibulka, George A., St. Louis, Mo. Closure for cans. No. 949,974; Feb. 22; Sp. p. 4622; Gaz. vol. 151; p. 825.

Cillard, Alfred D., Paris, France. Universal testing device for fabrics, rubber, metal, &c. No. 969,089; Aug. 30; Sp. p. 6908; Gaz. vol. 157; p. 1203.

Cincinnati Ball Crank Company, The. (See Wessel, Louis, assignor.)

Cincinnati Bickford Tool Company, The. (See Schauer and Brockardt, assignors.)

Cincinnati Butchers Supply Company, The. (See Schmidt and Naegelen, assignors.)

Cincinnati Cooperage Company, The. (See Hall, William A., assignor.)

Cincinnati Frog and Switch Company, The. (See Partington, Charles, assignor.)

Cincinnati Milling Machine Company, The. (See De Leeuw, Adolph L., assignor.)

Cincinnati Planer Company, The. (See Meier and Langen, assignors.)

Cincinnati Pulley Machinery Company. (See Hey, John G., assignor.)

Cincinnati Shaper Company, The. (See Chace and Murray, assignors.)

Cincinnati Shaper Company, The. (See Murray, Aristides R., assignor.)

Cincinnati Shaper Company, The. (See Steen and Chace, assignors.)

Cincinnati Time Recorder Company, The. (See Morrison, James, assignor.)

Ciociola, Gabriel, Leavenworth, Kans. Legging. No. 966,525; Aug. 9; Sp. p. 1486; Gaz. vol. 157; p. 255.

Ciolfi, Antonino, assignor to M. Levy, Cincinnati, Ohio. Sink. No. 952,233; Mar. 15; Sp. p. 3571; Gaz. vol. 152; p. 642.

Cipollina, Giuseppe, assignor to G. Bernati and L. Cecchi, Genoa, Italy. Steam-engine power-gage. No. 956,680; May 3; Sp. p. 378; Gaz. vol. 153; p. 62.

Circum Bearing Company. (See Brewer, Grace A., assignor.)

Cirves, Herman R., Madison, Wis. Pliers. No. 973,760; Oct. 25; Sp. p. 4923; Gaz. vol. 159; p. 856.

Cito, Camillo C., Irvington, N. J. Treatment of silver-nickel-cobalt-arsenic ores. No. 949,058; Feb. 15; Sp. p. 2700; Gaz. vol. 151; p. 480.

Alphabetical list of patentees—Continued.

Cito, Camillo C., Irvington, N. J. Smelting of silver-nickel-cobalt-arsenic ores. No. 949,059; Feb. 15; Sp. p. 2702; Gaz. vol. 151; p. 480.
Cito, Camillo C., Irvington, N. J. Smelting of silver-nickel-cobalt-arsenic ores. No. 949,261; Feb. 15; Sp. p. 3107; Gaz. vol. 151; p. 548.
Cizek, Albert F., Tacoma, Wash. Window. No. 958,596; May 17; Sp. p. 4747; Gaz. vol. 154; p. 780.
Claessen, Conrad H. H., Berlin, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Nitrocellulose gunpowder. No. 979,431; Dec. 27; Sp. p. 4338; Gaz. vol. 161; p. 770.
Claessen, Conrad P. H., Berlin, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 957,307; May 10; Sp. p. 1753; Gaz. vol. 154; p. 307.
Claflin, Adams D. (See Day, George F., assignor.)
Claflin, Alan A. (See Hartshorn and Claflin.)
Claflin, Charles A., Medford, Mass. Valve. No. 972,336; Oct. 11; Sp. p. 1779; Gaz. vol. 159; p. 313.
Claflin, Otto H., Berea, Ohio. Potato-digging machine. No. 979,432; Dec. 27; Sp. p. 4338; Gaz. vol. 161; p. 770.
Claflin, William B., New York, N. Y. Metallic packing. No. 965,688; July 26; Sp. p. 5824; Gaz. vol. 156; p. 990.
Clagett, George M., Marlboro, Md. Shock-conveying machine. No. 970,304; Sept. 13; Sp. p. 2485; Gaz. vol. 158; p. 419.
Claiborne, Harry L., Guineys, Va. Land-roller. No. 974,357; Nov. 1; Sp. p. 643; Gaz. vol. 160; p. 95.
Clair, Alice L., *et al.* (See Woodward, William D., assignor.)
Clair, Almond B., *et al.* (See Woodward, William D., assignor.)
Clair, Lewis P., *et al.* (See Woodward, William D., assignor.)
Clamer, Guilliam H., Philadelphia, Pa. Manufacture of iron-nickel-copper alloys. No. 965,871; Aug. 2; Sp. p. 50; Gaz. vol. 157; p. 10.
Clamer, Guilliam H., Philadelphia, Pa. Elimination of metals. No. 970,686; Sept. 20; Sp. p. 3314; Gaz. vol. 158; p. 570.
Clampitt, Warren P., Cleveland, Ohio. Car-fender. No. 956,483; Apr. 26; Sp. p. 6065; Gaz. vol. 153; p. 1051.
Clancy, John C., New York, N. Y. Treatment of ores bearing precious metals. No. 955,318; Apr. 19; Sp. p. 3502; Gaz. vol. 153; p. 621.
Clancy, John C., New York, N. Y. Treatment of ores bearing precious metals. No. 955,319; Apr. 19; Sp. p. 3503; Gaz. vol. 153; p. 621.
Clancy, John C., New York, N. Y. Treatment of ores bearing precious metals. No. 971,251; Sept. 27; Sp. p. 4505; Gaz. vol. 158; p. 788.
Clancy, John C., New York, N. Y. Treatment of ores bearing precious metals. No. 971,252; Sept. 27; Sp. p. 4506; Gaz. vol. 158; p. 788.
Clancy, John C., New York, N. Y. Treatment of precious metalliferous ores. No. 976,043; Nov. 15; Sp. p. 4278; Gaz. vol. 160; p. 720.
Clancy, John C., New York, N. Y. Treatment of precious metalliferous ores. No. 976,044; Nov. 15; Sp. p. 4280; Gaz. vol. 160; p. 720.
Clancy, John C., New York, N. Y. Treatment of precious metalliferous ores. No. 976,045; Nov. 15; Sp. p. 4281; Gaz. vol. 160; p. 720.
Clanton, Matthew E., Redding, Miss. Stalk-cutter. No. 946,720; Jan. 18; Sp. p. 3811; Gaz. vol. 150; p. 636.
Clapin, Louis P. (See Rouilliard, Victor A., assignor.)
Clapp, Arthur B. (See Clapp, George W., assignor.)
Clapp-Eastham Company. (See Eastham, Melville, assignor.)
Clapp, Ford M., assignor to The Ohio Varnish Company, Cleveland, Ohio. Device for displaying graining effects. No. 954,928; Apr. 12; Sp. p. 2711; Gaz. vol. 153; p. 458.
Clapp, Ford M., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 960,821; June 7; Sp. p. 1178; Gaz. vol. 155; p. 196.
Clapp, George M., Brooklyn, assignor of one-half to L. Deitz, Albany, N. Y. Can. No. 953,595; Mar. 29; Sp. p. 6492; Gaz. vol. 152; p. 1160.
Clapp, George W., New York, N. Y., assignor to A. B. Clapp, Brattleboro, Vt. Smoking-pipe. No. 977,781; Dec. 6; Sp. p. 797; Gaz. vol. 161; p. 124.
Clare, Charles H., Stratham, N. H. Secondary or storage battery. No. 948,146; Feb. 15; Sp. p. 2879; Gaz. vol. 151; p. 509.
Claridge, William A. (See Cram and Claridge.)
Clark, Absolom F., assignor to M. D. Teal, Toledo, Ohio. Combined rear light and number-tag. No. 960,822; June 7; Sp. p. 1180; Gaz. vol. 155; p. 197.
Clark, Adolph C., Perth Amboy, N. J., and F. L. Antisell, New York, N. Y. Furnace-charging apparatus. No. 951,304; Mar. 8; Sp. p. 1711; Gaz. vol. 152; p. 302.
Clark, Albert C., Chicago, Ill. Mechanical boiler-cleaner. No. 975,328; Nov. 8; Sp. p. 2815; Gaz. vol. 160; p. 455.
Clark, Alexander F. and A. J., Lexington, Nebr. Sweep-rake attachment. No. 963,991; July 12; Sp. p. 2147; Gaz. vol 156; p. 350.
Clark, Alvin, Portland, Oreg. Grain spreader and feeder. No. 957,036; May 3; Sp. p. 1163; Gaz. vol. 154; p. 184.
Clark, Annah R., executrix. (See Jenkins, Edward T.)
Clark, Arnold, Latty, Ohio. Beet-harvester. No. 963,868; July 12; Sp. p. 1892; Gaz. vol. 156; p. 311.
Clark, Arnold, Latty, Ohio. Beet-digger. No. 971,253; Sept. 27; Sp. p. 4507; Gaz. vol. 158; p. 788.
Clark, Arnold, Latty, Ohio. Windrow attachment for beet-harvesters. No. 971,254; Sept. 27; Sp. p. 4508; Gaz. vol. 158; p. 788.
Clark, Arnold, Latty, Ohio. Railway-tie. No. 972,818; Oct. 18; Sp. p. 2841; Gaz. vol. 159; p. 506.
Clark, Arthur J. (See Clark, Alexander F. and A. J.)
Clark, Arthur L. (See Masters, David H., assignor.)
Clark, Bainbridge P., Elizabeth, N. J. Apparatus for raising sunken vessels. No. 955,763; Apr. 19; Sp. p. 4473; Gaz. vol. 153; p. 772.
Clark, Bertha, New York, N. Y. Removable broom-protector. No. 947,012; Jan. 18; Sp. p. 4485; Gaz. vol. 150; p. 738.
Clark, Boslery W., Brown Station, N. Y. Stove attachment. No. 969,340; Sept. 6; Sp. p. 395; Gaz. vol. 158; p. 64.
Clark, Cadwallader J. (See Clark, Robert M. and C. J.)
Clark, Charles B., Bangor, Me. Obtaining sulfur dioxid. No. 952,098; Mar. 15; Sp. p. 3310; Gaz. vol. 152; p. 596.
Clark, Charles B., Bangor, Me. Sulfur-burning furnace. No. 952,099; Mar. 15; Sp. p. 3312; Gaz. vol. 152; p. 597.
Clark, Charles B., Bangor, Me. Sulfur-burner. No. 952,100; Mar. 15; Sp. p. 3316; Gaz. vol. 152; p. 597.
Clark, Charles C., East Orange, N. J. Hair-pin. No 973,404; Oct. 18; Sp. p. 4177; Gaz. vol. 159; p. 711.
Clark, Charles F., Calistoga, Cal. Supply system for water-power plants. No. 970,796; Sept. 20; Sp. p. 3565; Gaz. vol. 158; p. 610.
Clark, Charles J., Blue Island, Ill. Apparatus for measuring the flow of liquids. No. 948,872; Feb. 8; Sp. p. 2302; Gaz. vol. 151; p. 391.
Clark, Charles M. (See Hunter, Rudolph M., assignor.)
Clark, Charles M. (See Shallenberger, Charles S., assignor.)
Clark, Charles M., F J. Bullock, and E. D. Watkins, Lima, N. Y. Gate. No. 957,745; May 10; Sp. p. 2640; Gaz. vol. 154; p. 455.
Clark, Chester D., Maple, Fla. Hay-press. No. 961,102; June 14; Sp. p. 1747; Gaz. vol. 155; p. 317.
Clark, Cornelius S., Norfolk, Va. Leak-stopper for boiler-tubes. No. 955,500; Apr. 19; Sp. p. 3891; Gaz. vol. 153; p. 683.
Clark, Daniel W. (See Mills, James W., assignor.)
Clark, David L., Versailles township, Allegheny county, and W. C. Gillis, East McKeesport, Pa. Package-coating machine. No. 950,369; Feb. 22; Sp. p. 5470; Gaz. vol. 151; p. 959.
Clark, Donald R., *et al.* (See Mayer, Godfried J., assignor.)
Clark & Dugan. (See Clark, Oliver H. P., assignor.)
Clark, Dwight G., Plainville, assignor to Eagle Lock Co., Terryville, Conn. Means for making rivets. No. 967,327; Aug. 16; Sp. p. 3194; Gaz. vol. 157; p. 554.
Clark, Dwight G., Plainville, assignor to Eagle Lock Co., Terryville, Conn. Making rivets. No. 970,687; Sept. 20; Sp. p. 3316; Gaz. vol. 158; p. 570.
Clark, Edward C., Nutley, N. J., assignor to The Oscar Barnett Foundry Company. Chain grate. No. 972,751; Oct. 11; Sp. p. 2695; Gaz. vol. 159; p. 458.
Clark, Edward H. (See Hammett and Clark.)
Clark, Edward J., Pittsburg, Pa. Support for railway-rails. No. 945,376; Jan. 4; Sp. p. 809; Gaz. vol. 150; p. 125.
Clark, Edwin W., Chicago, Ill. Pump. No. 967,498; Aug. 16; Sp. p. 3569; Gaz. vol. 157; p. 612.
Clark Electric and Manufacturing Company. (See Clark, Walter G., assignor.)
Clark, Ellsworth E. (See Rosenberg and Clark.)
Clark, Ellsworth E., and A. Rosenberg, assignors to Climax Lock and Ventilator Co., Buffalo, N. Y. Antirattler for windows. No. 965,988; Aug. 2; Sp. p. 307; Gaz. vol. 157; p. 51.
Clark, Ernest M. (See Sheesley, Howard M., assignor.)
Clark, F. W. (See Tufts, John R., Jr., assignor.)
Clark, Farley G., New York, N. Y. Current distributing and collecting mechanism for electric railways. No. 964,953; July 19; Sp. p. 4248; Gaz. vol. 156; p. 710.
Clark, Francis L., Pittsburg, Pa., assignor to Standard Traction Brake Company. Pressure-governor for electrically-operated pumps. No. 965,689; July 26; Sp. p. 5828; Gaz. vol. 156; p. 990.
Clark, Frank, Marshall, Okla. Draft-equalizer. No. 950,840; Mar. 1; Sp. p. 811; Gaz. vol. 152; p. 129.
Clark, Frank, Colony, Okla. Railway-gate. No. 970,305; Sept. 13; Sp. p. 2489; Gaz. vol. 158; p. 419.
Clark, Frank E., Independence, Kans. Cigar-holder for hats. No. 963,869; July 12; Sp. p. 1893; Gaz. vol. 156; p. 311.
Clark, Franklin E. (See Fairchild and Clark.)
Clark, Fred, Vallonia Springs, N. Y. Horseshoe. No. 945,910; Jan. 11; Sp. p. 2018; Gaz. vol. 150; p. 335.
Clark, George, assignor to The Economic Specialty Company, Chicago, Ill. Pump-valve. No. 948,132; Feb. 1; Sp. p. 725; Gaz. vol. 151; p. 119.

Alphabetical list of patentees—Continued.

Clark, George J., assignor of one-half to C. Pollock, Defiance, Ohio. Valve and reverse gearing for steam-engines. No. 946,110; Jan. 11; Sp. p. 2422; Gaz. vol. 150; p. 403.
Clark, George M., Jr., Nahant, Mass. Ingot-casting machine. No. 946,721; Jan. 18; Sp. p. 3812; Gaz. vol. 150; p. 637.
Clark, George W., assignor of one-half to J. B. Doyle, Grand Rapids, Mich. Lightning-arrester. No. 949,565; Feb. 15; Sp. p. 3746; Gaz. vol. 151; p. 651.
Clark, Harold H., Pittsburg, Pa. Indicating and measuring device for use in mines or wherever desired to detect presence of combustible gases. No. 960,823; June 7; Sp. p. 1180; Gaz. vol. 155; p. 197.
Clark, Harry S., *et al.* (See Dodson, Charles I., assignor.)
Clark, Henry. (See Clark, Joseph and H.)
Clark, Henry A. (See Granger, Frank W., assignor.)
Clark, Henry F., Jeannette, assignor to Window Glass Machine Company, Pittsburg, Pa. Glass-pot. No. 963,276; July 5; Sp. p. 638; Gaz. vol. 156; p. 89.
Clark, Horace O., New York, N. Y. Piano-action. No. 952,417; Mar. 15; Sp. p. 3933; Gaz. vol. 152; p. 704.
Clark, Horace O., New York, N. Y. Vehicle-tire. No. 954,255; Apr. 5; Sp. p. 1187; Gaz. vol. 153; p. 198.
Clark, Horace O., Chicago, Ill. Piano-action. No. 954,170; Apr. 5; Sp. p. 1008; Gaz. vol. 153; p. 171.
Clark, Hugh D., Columbus, Ohio. Metallic burial casing or vault. No. 951,364; Mar. 8; Sp. p. 1833; Gaz. vol. 152; p. 321.
Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Clamping-ring for pipe-couplings. No. 946,933; Jan. 18; Sp. p. 4327; Gaz. vol. 150; p. 711.
Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Pipe-coupling. No. 964,609; July 19; Sp. p. 3453; Gaz. vol. 156; p. 591.
Clark, James C., Sarnia, Ontario, Canada. Loading apparatus. No. 951,268; Mar. 8; Sp. p. 1625; Gaz. vol. 152; p. 290.
Clark, James G., Toledo, Ohio. Ventilator. No. 964,146; July 12 · Sp. p. 2459; Gaz. vol. 156; p. 403.
Clark, James H., assignor of one-half to J. E. Quarles, Richmond, Va. Bicycle attachment. No. 963,730; July 5; Sp. p. 1560; Gaz. vol. 156; p. 240.
Clark, James M., 3rd, Providence, R. I. Target-practice apparatus. No. 971,828; Oct. 4; Sp. p. 657; Gaz. vol. 159; p. 116.
Clark, James W., Janesville, Wis. Parcel-carrier. No. 958,723; May 24; Sp. p. 5002; Gaz. vol. 154; p. 846.
Clark, John, Mount Juliet, Tenn. Cotton-planter. No. 947,884; Feb. 1; Sp. p. 231; Gaz. vol. 151; p. 37.
Clark, John A., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Bobbin-spindle. No. 950,890; Mar. 1; Sp. p. 900; Gaz. vol. 152; p. 144.
Clark, John A., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Tufted-fabric loom. No. 960,824; June 7; Sp. p. 1183; Gaz. vol. 155; p. 197.
Clark, John A., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Carriage for tuft-yarn needles. No. 970,608; Sept. 20; Sp. p. 3118; Gaz. vol. 158; p. 543.
Clark, John H., Rock Camp, W. Va. Revolving headlight. No. 966,427; Aug. 9; Sp. p 1212; Gaz. vol. 157; p. 220.
Clark, John W., Juneau, Alaska. Combined key-fastener and key-ring. No. 954,929; Apr. 12; Sp. p. 2712; Gaz. vol. 153; p. 458.
Clark, Joseph and H., Richford, Vt. Sap-gathering tank. No. 967,499; Aug. 16; Sp. p. 3572; Gaz. vol. 157; p. 612.
Clark, Joseph H., Newark, N. J. Filter. No. 969,245; Sept. 6; Sp. p. 208; Gaz. vol. 158; p. 34.
Clark, Le Vert, Detroit, Mich. Spring-bed. No. 945,911; Jan. 11; Sp. p. 2019; Gaz. vol. 150; p. 336.
Clark, Le Vert, Detroit, Mich. Double safety car-wheel and propelling parts coöperating therewith. No. 955,382; Apr. 19; Sp. p. 3642; Gaz. vol. 153; p. 642.
Clark, Leonard M., Moulton, and W. S. Farrar, Burlington, Iowa. Fastening means for silo-doors. No. 952,876; Mar. 22; Sp. p. 4942; Gaz. vol. 152; p. 889.
Clark, Lucius R., and D. G. Kreul, Davenport, Iowa. Filter. No. 974,025; Oct. 25; Sp. p. 5479; Gaz. vol. 159; p. 949.
Clark, Luke W., Carterville, Mo. Fly-exit. No. 954,256; Apr. 5; Sp. p. 1188; Gaz. vol. 153; p. 199.
Clark Manufacturing Company, The. (See Hannaford, William P., assignor.)
Clark Manufacturing Company, The. (See Strong, Leslie P., assignor.)
Clark Manufacturing Company, The. (See Winter, Oscar, assignor.)
Clark, Mason J., Newark Valley, N. Y. Wheel. No. 964,215; July 12; Sp. p. 2584; Gaz. vol. 156; p. 426.
Clark, Maurice C., assignor to Maurice C. Clark Company, Providence, R. I. Machine for working crude rubber. No. 960,274; June 7; Sp. p. 68; Gaz. vol. 155; p. 15.
Clark, Maurice C., assignor to Maurice C. Clark Company, Providence, R. I. Mold for forming footwear. No. 962,697; June 28; Sp. p. 5203; Gaz. vol. 155; p. 908.
Clark, Maurice C., assignor to Maurice C. Clark Company, Providence, R. I. Rubber footwear. No. 980,173; Dec. 27; Sp. p. 5993; Gaz. vol. 161; p. 1020.
Clark, Melville. (See Burton, Charles S., assignor.)
Clark, Melville, Chicago, Ill. Antiskidding device for vehicle-wheels. No. 964,610; July 19; Sp. p. 3455; Gaz. vol. 156; p. 591.
Clark, Melville, Chicago, Ill. Duplex tracker-board for automatic musical instruments. (Reissue.) No. 13,136; July 26; Sp. p. 6158; Gaz. vol. 156; p. 1044.
Clark, Norris E., Plainville, Conn. Expanded metal. No. 948,414; Feb. 8; Sp. p. 1339; Gaz. vol. 151; p. 239.
Clark, Norris E., Plainville, Conn. Expanded-metal manufacture. No. 979,130; Dec. 20; Sp. p. 3736; Gaz. vol. 161; p. 647.
Clark, Norris E., Plainville, Conn., assignor to The National Metal Fabric Company, New York, N. Y. Expanded-metal manufacture. No. 947,794; Feb. 1; Sp. p. 32; Gaz. vol. 151; p. 8.
Clark, Oliver H. P., assignor to Clark & Dugan, Indianapolis, Ind. Gas-stove lighter. No. 950,891; Mar. 1; Sp. p. 901; Gaz. vol. 152; p. 144.
Clark, Omar E., Columbus, Ohio. Belt-keeper for trousers-bands. No. 962,127; June 21; Sp. p. 3965; Gaz. vol. 155; p. 689.
Clark, Osroe A., Newark, N. J. Folder for blades. No. 959,995; May 31; Sp. p. 7740; Gaz. vol. 154; p. 1304.
Clark, Osroe A., Newark, N. J. Blade. No. 967,500; Aug. 16; Sp. p. 3573; Gaz. vol. 157; p. 613.
Clark, Osroe A., Newark, N. J. Making blades with soft centers. No. 972,436; Oct. 11; Sp. p. 1988; Gaz. vol. 159; p. 349.
Clark, Otis O., Liberal, Kans. Attachment for harvesters. No. 974,358; Nov. 1; Sp. p. 644; Gaz. vol. 160; p. 96.
Clark, Otis O., assignor of one-half to J. Fuest, Liberal, Kans. Animal-poke. No. 971,594; Oct. 4; Sp. p. 181; Gaz. vol. 159; p. 33.
Clark, Pearl M., Island Lake, Wis. Wrench. No. 970,990; Sept. 20; Sp. p. 3933; Gaz. vol. 158; p. 672.
Clark, Prentice E., Elkins, W. Va. Transmission-gearing. No. 951,055; Mar. 1; Sp. p. 1196; Gaz. vol. 152; p.196.
Clark, Prentice E., Elkins, W. Va. Machine-driving means. No. 969,601; Sept. 6; Sp. p. 968; Gaz. vol. 158; p. 153.
Clark, Reuben M., Webb City, Mo. Gate or cut-off for cupolas. No. 966,310; Aug 2; Sp. p. 976; Gaz. vol. 157; p. 156.
Clark, Robert, Walthamstow, England, assignor to Carter-Crume Co., Limited, Niagara Falls, N. Y. Manifolding-pad. No. 972,819; Oct. 18; Sp. p. 2842; Gaz. vol. 159; p. 507.
Clark, Robert G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Distributing mechanism for line-casting machines. No. 945,694; Jan. 4; Sp. p. 1463; Gaz. vol. 150; p. 229.
Clark, Robert G., Brooklyn, N. Y., assignor to Hygienic Soap Granulator Company. Soap-dispensing machine. No. 948,721; Feb. 8; Sp. p. 1999; Gaz. vol. 151; p. 342.
Clark, Robert G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Justifier for line-casting machines. No. 955,764; Apr. 19; Sp. p. 4476; Gaz. vol. 153; p. 772.
Clark, Robert M., Newton, and C. J. Clark, Needham, Mass., assignors to Central Railway Signal Company, Pittsburg, Pa. Tube-filling machine. No. 961,428; June 14; Sp. p. 2435; Gaz. vol. 155; p. 429.
Clark, Russell A., Pittsburg, Pa. Nut-locking tool. No. 964,393; July 12; Sp. p. 2940; Gaz. vol. 156; p. 486.
Clark, Russell A., Pittsburg, Pa. Nut-locking tool. No. 975,677; Nov. 15; Sp. p. 3572; Gaz. vol. 160; p. 601.
Clark Sales Company, The. (See Smith, Ernest L., assignor.)
Clark, Samuel J., Cornwall-on-the-Hudson, N. Y. Mold and disher. No. 961,429; June 14; Sp. p. 2439; Gaz. vol. 155; p. 430.
Clark, Sarah W., New York, N. Y. Piano-swell. No. 950,276; Feb. 22; Sp. p. 5304; Gaz. vol. 151; p. 929.
Clark, Sawyer D., and C. F. Bartell, Boulder, Colo. Vacuum-producing device. No. 973,405; Oct. 18; Sp. p. 4178; Gaz. vol. 159; p. 712.
Clark, Shelton C., Carleton, Nebr. Wrench. No. 951,056; Mar. 1; Sp. p. 1198; Gaz. vol. 152; p. 197.
Clark, Stuart J., Auburn, Ill. Folding umbrella. No. 973,406; Oct. 18; Sp. p. 4179; Gaz. vol. 159; p. 712.
Clark, Sylvanus R. (See Culbertson and Clark.)
Clark, Theodore E., Sacramento, Cal. Mold for sewers. No. 948,539; Feb. 8; Sp. p. 1595; Gaz. vol. 151; p. 281.
Clark, Theodore E., Sacramento, Cal. Mold for sewers. No. 948,540; Feb. 8; Sp. p. 1596; Gaz. vol. 151; p. 281.
Clark, Theodore E., Sacramento, Cal. Mold for sewers. (Reissue.) No. 13,106; Apr. 19; Sp. p. 4653; Gaz. vol. 153; p. 804.
Clark, Thomas H., and J. H. Nequette, Los Angeles, Cal. Hydrocarbon-burner. No. 958,692; May 17; Sp. p. 4932; Gaz. vol. 154; p. 810.
Clark, Walter E., Hughesville, assignor to J. K. Rishel Furniture Co., Williamsport, Pa. Clamp for tables. No. 974,026; Oct. 25; Sp. p. 5481; Gaz. vol. 159; p. 950.
Clark, Walter G. (See Parker and Clark.)
Clark, Walter G., New York, N. Y. Insulator-clamp. No. 946,722; Jan. 18; Sp. p. 3815; Gaz. vol. 150; p. 637.
Clark, Walter G., assignor to Parker-Clark Electric Company, New York, N. Y. Electrically-heated tool. No. 961,103; June 14; Sp. p. 1748; Gaz. vol. 155; p. 317.

Alphabetical list of patentees—Continued.

Clark, Walter G., New York, N. Y., assignor to Parker-Clark Electric Company, Jersey City, N. J. Making incandescent-electric-lamp filaments. No. 963,745; July 12; Sp. p. 1598; Gaz. vol. 156; p. 268.
Clark, Walter G., assignor to Clark Electric and Manufacturing Company, New York, N. Y. Fastening device for insulators. No. 966,311; Aug. 2; Sp. p. 978; Gaz. vol. 157; p. 157.
Clark, Walter L. (See Muller, Friederich, assignor.)
Clark, Walter L., New York, N. Y. Fountain-brush. No. 953,371; Mar. 29; Sp. p. 6019; Gaz. vol. 152; p. 1081.
Clark, Walter L., New York, N. Y. Fountain-brush. No. 953,372; Mar. 29; Sp. p. 6020; Gaz. vol. 152; p. 1082.
Clark, Walter L., New York, N. Y. Paste-tube. No. 953,373; Mar. 29; Sp. p. 6023; Gaz. vol. 152; p. 1082.
Clark, Walter L., New York, N. Y. Fountain-brush and reservoir therefor. No. 953,374; Mar. 29; Sp. p. 6025; Gaz. vol. 152; p. 1083.
Clark, Walter L., New York, N. Y. Paste-tube. No. 953,375; Mar. 29; Sp. p. 6028; Gaz. vol. 152; p. 1083.
Clark, Walter L., New York, N. Y. Fountain-brush. No. 953,376; Mar. 29; Sp. p. 6029; Gaz. vol. 152; p. 1083.
Clark, Walter L., New York, N. Y. Case for shaving appliances. No. 970,797; Sept. 20; Sp. p. 3566; Gaz. vol. 158; p. 610.
Clark, Warren F. (See Marshall and Clark.)
Clark, William C. (See Dorffel, George, assignor.)
Clark, William E., Charlestown, N. H. Railway-tie and fastening. No. 958,225; May 17; Sp. p. 3861; Gaz. vol. 154; p. 652.
Clark, William H., Hoboken, N. J. Pump. No. 968,126; Aug. 23; Sp. p. 4868; Gaz. vol. 157; p. 845.
Clark, William R., and W. M. G. Campbell, Lincoln, Nebr. Milk and cream can. No. 946,654; Jan. 18; Sp. p. 3672; Gaz. vol. 150; p. 615.
Clark, William T. (See Kugler and Clark.)
Clarke, Albert G., Montreal, Quebec, Canada. Document-file. No. 970,989,; Sept. 20; Sp. p. 3932; Gaz. vol. 158; p. 672.
Clarke, Anna C., Scranton, Pa. Sewage system for railway-cars. No. 957,933; May 17; Sp. p. 3053; Gaz. vol. 154; p. 548.
Clarke, Arthur F., Butler, Pa. Releasing device for well-pumps. No. 951,593; Mar. 8; Sp. p. 2292; Gaz. vol. 152; p. 397.
Clarke, Arthur F., Butler, Pa. Combination stuffing-box and clamp. No. 951,594; Mar. 8; Sp. p. 2294; Gaz. vol. 152; p. 398.
Clarke, Arthur F., Butler, Pa. Electric igniter or breaker for gas-engines. No. 954,168; Apr. 5; Sp. p. 1002; Gaz. vol. 153; p. 169.
Clarke, Arthur F., assignor to T. W. Phillips Mfg. Co., Butler, Pa. Gearing. No. 954,169; Apr. 5; Sp. p. 1005; Gaz. vol. 153; p. 170.
Clarke, Athol W., Manchester, England, assignor to The Westinghouse Machine Company. Shrouding of turbine-blades. No. 969,843; Sept. 13; Sp. p. 1526; Gaz. vol. 158; p. 261.
Clarke, Charles B. (See Toops, Emory D., assignor.)
Clarke, Charles E., Winthrop, assignor to Puritan Manufacturing Company, Boston, Mass. Foot-rest. No. 956,681; May 3; Sp. p. 380; Gaz. vol. 154; p. 63.
Clarke, Charles P., Philadelphia, Pa. Collapsible-tube holder. No. 951,101; Mar. 8; Sp. p. 1298; Gaz. vol. 152; p. 238.
Clarke, Elmer S., *et al.* (See Driskell, Winfield S., assignor.)
Clarke, Frederick F., assignor to Colburn Machine Tool Company, Franklin, Pa. Belt-shifter for cone-pulleys. No. 963,209; July 5; Sp. p. 472; Gaz. vol. 156; p. 65.
Clarke, George W., assignor of one-fourth to T. B. Eastman and one-fourth to F. M. Wright, San Francisco, Cal. Matrix-plate. No. 965,155; July 26; Sp. p. 4660; Gaz. vol. 156; p. 807
Clarke, James U. (See Tiedemann and Clarke.)
Clarke, John C. (See Call, Charles E., assignor.)
Clarke, John L., Albuquerque, N. Mex. Toy. No. 946,013; Jan. 11; Sp. p. 2232; Gaz. vol. 150; p. 371.
Clarke, John L., Albuquerque, N. Mex. Attaching-wedge. No. 954,669; Apr. 12; Sp. p. 2096; Gaz. vol. 153; p. 367.
Clarke, Louis S., Haverford, and B. B. Bachman, Philadelphia, assignors to Autocar Company, Ardmore, Pa. Vehicle-seat. No. 968,510; Aug. 23; Sp. p. 5686; Gaz. vol. 157; p. 979.
Clarke, Marcus S., Houston, Tex., assignor of one-half to E. L. Adreon, Jr., St. Louis, Mo. Combination claw and pinch bar. No. 957,190; May 10; Sp. p. 1480; Gaz. vol. 154; p. 264.
Clarke, Marcus S., Houston, Tex., and E. L. Adreon, Jr., St. Louis, Mo. Combined tie-plate and rail anti-creeper. No. 953,193; Mar. 29; Sp. p. 5630; Gaz. vol. 152; p. 1023.
Clarke, Matthew, Wilkes-Barre, Pa. Compound measuring instrument. No. 973,117; Oct. 18; Sp. p. 3531; Gaz. vol. 159; p. 611.
Clarke, Peete B., Liverpool, England. Vessel for carrying bulk cargo. No. 975,750; Nov. 15; Sp. p. 3710; Gaz. vol. 160; p. 626.
Clarke, Samuel A. (See Thorne, Josiah C., assignor.)
Clarke, Thomas C., New York, N. Y. Temporary wall. No. 972,059; Oct. 4; Sp. p. 1196; Gaz. vol. 159; p. 202.
Clarke, William C., Shelbourne, Ontario, Canada. Means for retaining heat in steam-boilers. No. 949,792; Feb. 22; Sp. p. 4209; Gaz. vol. 151; p. 760.
Clarke, William E., Detroit, Mich. Eyeglass-frame. No. 974,860; Nov. 8; Sp. p. 1769; Gaz. vol. 160; p. 295.
Clarke, William H., Chicago, Ill. System of electrical distribution. No. 966,526; Aug. 9; Sp. p. 1487; Gaz. vol. 157; p. 256.
Clarkson, Bowen E., Kingstree, S. C. Lightning-arrester. No. 948,873; Feb. 8; Sp. p. 2305; Gaz. vol. 151; p. 392.
Clarkson, Edwin S., Washington, D. C. Uncoupling-lever. No. 949,955; Feb. 22; Sp. p. 4578; Gaz. vol. 151; p. 818.
Clarkson, Frank S., Baltimore, Md. Oyster-opening machine. No. 969,246; Sept. 6; Sp. p. 210; Gaz. vol. 158; p. 35.
Clarkson, Fred H. (See Titus, Clarkson, and Andrews.)
Class, John, Canton, Ohio. Sawdust-conveyer. No. 946,336; Jan. 11; Sp. p. 2914; Gaz. vol. 150; p. 483.
Clattenburg, Charles W., Bridgewater, Nova Scotia, Canada. Turnbuckle-center for attaching ships' riggings to chain-plates. No. 953,896; Apr. 5; Sp. p. 422; Gaz. vol. 153; p. 77.
Claud, Clarence W., assignor of one-half to J. H. Claud, one-fourth to F. W. Claud, and one-fourth to I. A. Claud, Nashville, Tenn. Repeating attachment for graphophones. No. 962,315; June 21; Sp. p. 4358; Gaz. vol. 155; p. 752.
Claud, Felix W., *et al.* (See Claud, Clarence W., assignor.)
Claud, Innis A., *et al.* (See Claud, Clarence W., assignor.)
Claud, John H., *et al.* (See Claud, Clarence W., assignor.)
Claude, Georges, assignor to Societe l'Air Liquide, (Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude,) Paris, France. Separation of oxygen and nitrogen from liquid air. No. 950,436; Feb. 22; Sp. p. 5596; Gaz. vol. 151; p. 981.
Claude, Georges, assignor to Societe l'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude), Paris, France. Liquefying gases. No. 967,104; Aug. 9; Sp. p. 2741; Gaz. vol. 157; p. 449.
Claude, Georges, Nogent-sur-Marne, and R. J. Lévy, Boulogne-sur-Seine, assignors to Societe l'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude), Paris, France. Separation of gaseous mixtures into their elements. No. 967,105; Aug. 9; Sp. p. 2746; Gaz. vol. 157; p. 450.
Clausen, Charles M., Elkhart, Ind. Water-tube-boiler accessories. No. 946,934; Jan. 18; Sp. p. 4328; Gaz. vol. 150; p. 711.
Clausen, Edgar C., Salt Lake City, Utah. Garment-hanger. No. 958,366; May 17; Sp. p. 4298; Gaz. vol. 154; p. 702.
Clausen, Fritz M., Goldfield, Iowa. Net-weight scale-beam. No. 971,829; Oct. 4; Sp. p. 664; Gaz. vol. 159; p. 116.
Clausing, Albert, Milwaukee, Wis. Gas-burning attachment for stoves. No. 964,611; July 19; Sp. p. 3456; Gaz. vol. 156; p. 591.
Clauss, Henrie, Fremont, Ohio. Safety-razor. No. 974,473; Nov. 1; Sp. p. 914; Gaz. vol. 160; p. 135.
Clavel, Alexander, assignor to Färberei- & Appretur-Gesellschaft (vormals A. Clavel & Fritz Lindenmeyer), Basel, Switzerland. Apparatus for smoothing hanks of textile materials. No. 972,060; Oct. 4; Sp. p. 1198; Gaz. vol. 159; p. 202.
Clawson, Abram L., Pleasant Hill, Mo. Motion-picture film. No. 958,367; May 17; Sp. p. 4300; Gaz. vol 154; p. 702.
Clawson, Charles F., Mount Pleasant, Iowa. Nut-lock. No. 957,746; May 10; Sp. p. 2641; Gaz. vol. 154; p. 455.
Clawson, Charles F., Mount Pleasant, Iowa. Rail-anchor. No. 970,306; Sept. 13; Sp. p. 2490; Gaz. vol. 158; p. 419.
Clawson, Charles F., Mount Pleasant, Iowa. Rail-anchor. No. 972,061; Oct. 4; Sp. p. 1200; Gaz. vol. 159; p. 203.
Clawson, Clement C., Flagtown, N. J. Kite. No. 967,612; Aug. 16; Sp. p. 3783; Gaz. vol. 157; p. 650.
Clawson, Clement C., Flagtown, N. J. Coin-controlled vending-machine. No. 969,844; Sept. 13; Sp. p. 1527; Gaz. vol. 158; p. 262.
Clawson, Danial A., Waynesville, Ill. Wire-fence machine. No. 953,517; Mar. 29; Sp. p. 6327; Gaz. vol. 152; p. 1134.
Clawson, Danial A., Waynesville, Ill. Wire fence. No. 971,972; Oct. 4; Sp. p. 1031; Gaz. vol. 159; p. 172.
Clawson, Leonard E., San Francisco, Cal. Aerial machine. No. 971,358; Sept. 27; Sp. p. 4705; Gaz. vol. 158; p. 822.
Clawson, Leonard E., and F. L. Dow, San Francisco, Cal. Vehicle-tire. No. 947,371; Jan. 25; Sp. p. 5271; Gaz. vol. 150; p. 886.
Clawson, Monroe S., New York, N. Y. Oxygen-generator. No. 964,492; July 19; Sp. p. 3157; Gaz. vol. 156; p. 549.
Clay, C. M. (See Hannold, Ed J., assignor.)
Clay, Cassius M., Mexico, Mo. Gasket for hose-couplings. No. 979,433; Dec. 27; Sp. p. 4340; Gaz. vol. 161; p. 770.
Clay, Fred, assignor of one-half to G. Haehnle, Cincinnati, Ohio. Nut-lock. No. 978,698; Dec. 13; Sp. p. 2766; Gaz. vol. 161; p. 472.
Clay, George B., Jenkintown, Pa. Hose-coupling. No. 946,935; Jan. 18; Sp. p. 4330; Gaz. vol. 150; p. 711.

Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Boiler. No. 969,746; Sept. 6; Sp. p. 1277; Gaz. vol. 158; p. 204.
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Mechanical movement. No. 972,162; Oct. 11; Sp. p. 1419; Gaz. vol. 159; p. 254.
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Gang-plow. No. 976,721; Nov. 22; Sp. p. 5794; Gaz. vol. 160; p. 981.
Clay, John B., assignor of one-half to J. W. Spangler, Shelby, N. C. Bottle-vending machine. No. 969,747; Sept. 6; Sp. p. 1278; Gaz. vol. 158; p. 205.
Clay, Willim F., Willis, Tex. Well-bucket strainer. No. 979,380; Dec. 20; Sp. p. 4230; Gaz. vol. 161; p. 729.
Clayton, Delcie A., Chatfield, Minn. Chimney-cover. No 965,563; July 26; Sp. p. 5566; Gaz. vol. 156; p. 947.
Clayton, Edward S., assignor of one-half to H. M. Cosh, Baltimore, Md. Electromagnetic ironing-board. No. 949,351; Feb. 15; Sp. p. 3303; Gaz. vol. 151; p. 579.
Clayton, James, Coventry, assignor to Samuel Courtauld and Co., Limited, London, England. Apparatus for stopping winding-reels, &c., when a predetermined length of material has been wound thereon. No. 967,730; Aug. 16; Sp. p. 4022; Gaz. vol. 157; p. 689.
Clayton, James, Coventry, assignor to Samuel Courtauld and Co., Limited, London, England. Apparatus for use in the manufacture of artificial-silk and like threads. No. 979,434; Dec. 27; Sp. p. 4341; Gaz. vol. 161; p. 770.
Clayton, John T., Chicago, Ill. Gas lock-cock. No. 952,784; Mar. 22; Sp. p. 4764; Gaz. vol. 152; p. 858.
Cleal, Joseph P., Toronto, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Electric cash-register. No. 945,912; Jan. 11; Sp. p. 2020; Gaz. vol. 150; p. 336.
Cleal, Joseph P., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 949,884; Feb. 22; Sp. p. 4433; Gaz. vol. 151; p. 793.
Cleal, Joseph P., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 970,798; Sept. 20; Sp. p. 3567; Gaz. vol. 158; p. 610.
Cleal, Joseph P., Toronto, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 977,511; Dec. 6; Sp. p. 202; Gaz. vol. 161; p. 31.
Clear, Charles, St. Louis, Mo. Hot-air register. No. 947,634; Jan. 25; Sp. p. 5866; Gaz. vol. 150; p. 974.
Clear, John N., St. Louis, Mo. Display-shelving. No. 946,337; Jan. 11; Sp. p. 2916; Gaz. vol. 150; p. 483.
Cleary, Cornelius, Ironton, Ohio. Door-opener. No. 974,359; Nov. 1; Sp. p. 646; Gaz. vol. 160; p. 96.
Cleary, De Witt C., Seneca Falls, N. Y. Means for adjusting gun-sights. No. 960,153; May 31; Sp. p. 8069; Gaz. vol. 154; p. 1356.
Cleary, James P., Baltimore, Md. Fish-trap. No. 945,840; Jan. 11; Sp. p. 1873; Gaz. vol. 150; p. 311.
Cleary, Joseph M., San Francisco, Cal. Railway-tie. No. 958,226; May 17; Sp. p. 3862; Gaz. vol. 154; p. 652.
Cleary, Thomas A., Escanaba, Mich. Trousers-rack. No. 959,112; May. 24; Sp. p. 5851; Gaz. vol. 154; p. 981.
Cleaver, Fremont J., Sr., Baldwin township, assignor of one-third to J. B. Collins and one-third to S. L. H. Morris, Allegheny county, Pa. Print-machine. No. 962,128; June 21; Sp. p. 3966; Gaz. vol. 155; p. 689.
Clegg, John. (See Miller and Clegg.)
Clegg, William H., Burnley, England. Take-up motion for looms. No. 958,597; May 17; Sp. p. 4749; Gaz. vol. 154; p. 780.
Cleghorn, Douglas H., Oakland, Cal. Amusement apparatus. No. 953,459; Mar. 29; Sp. p. 6201; Gaz. vol. 152; p. 1112.
Cleiren, Charles, Brussels, Belgium. Means for transmitting power. No. 965,084; July 19; Sp. p. 4517; Gaz. vol. 156; p. 752.
Cleis, John C., South Bend, Ind. Buffer attachment for closet-seats. No. 972,820; Oct. 18; Sp. p. 2844; Gaz. vol. 159; p. 507.
Clemens, Frank, Jr., Crestline, Ohio. Grass-catcher for lawn-mowers. No. 952,308; Mar. 15; Sp. p. 3727; Gaz. vol. 152; p. 667.
Clemens, William M., *et al.* (See Curry and Linn, assignors.)
Clemensson, Clemens J. (See Dunton, Addis J., assignor.)
Clément, Adolphe, Levallois-Perret, France. Means for mounting propeller-shafts. No. 954,077; Apr. 5; Sp. p. 792; Gaz. vol. 153; p. 138.
Clement, Charles P., Liege, Belgium. Automatic firearm. No. 976,122; Nov. 15; Sp. p. 4440; Gaz. vol. 160; p. 752.
Clément, Charles P., Liege, Belgium, assignor to Smith & Wesson Incorporated, Springfield, Mass. Automatic pistol. No. 970,307; Sept. 13; Sp. p. 2492; Gaz. vol. 158; p. 420.
Clement, Don L., Evangeline, La. Gate-spring. No. 948,498; Feb. 8; Sp. p. 1516; Gaz. vol. 151; p. 268.
Clement, Edward E. (See Schwartz, Edward, assignor.)
Clement, Edward E., Washington, D. C. Telephone-exchange system. No. 956,484; Apr. 26; Sp. p. 6068; Gaz. vol. 153; p. 1052.
Clement, Edward E., Washington, D. C., assignor to The North Electric Company, Cleveland, Ohio. Electrical relay or electromagnet. No. 946,489; Jan. 11; Sp. p. 3333; Gaz. vol. 150; p. 536.
Clement, Edward E., Washington, D. C., assignor to The North Electric Company, Cleveland, Ohio. Impulse-transmitter for electric signaling systems. No. 964,612; July 19; Sp. p. 3457; Gaz. vol. 156; p. 591.
Clement, Edward E., Washington, D. C., assignor to The North Electric Company, Cleveland, Ohio. Electrical relay. No. 969,759; Sept. 6; Sp. p. 1302; Gaz. vol. 158; p. 209.
Clement, Edward E., Washington, D. C., assignor to The North Electric Company, Cleveland, Ohio. Selective ringing means for telephone systems. No. 976,123; Nov. 15; Sp. p. 4444; Gaz. vol. 160; p. 753.
Clement, Joseph, assignor of one-fourth to J. Reneaud, Proctor, Minn. Car-replacer. No. 965,085; July 19; Sp. p. 4519; Gaz. vol. 156; p. 753.
Clement, Judson C. (See Wileman and Clement.)
Clement, Otto, and J. H. Wagner, St. Louis, Mo. Rotary pump. No. 949,219; Feb. 15; Sp. p. 3006; Gaz. vol. 151; p. 534.
Clements, Adolphus C., Villanow, Ga. Wrench. No. 966,888; Aug. 9; Sp. p. 2293; Gaz. vol. 157; p. 376.
Clements, Charles J., New York, N. Y. Bolt-anchor. No. 961,583; June 14; Sp. p. 2774; Gaz. vol. 155; p. 481.
Clements, Chester D., Wymore, Nebr. Vest-corner stiffener. No. 958,093; May 17; Sp. p. 3595; Gaz. vol. 154; p. 606.
Clements, George, and J. M. Hostler, assignors to Hygenic Renovating Company, Chicago, Ill. Air-purifying apparatus. No 961,208; June 14; Sp. p. 1964; Gaz. vol. 155; p. 354.
Clements, George, and J. M. Hostler, assignors to Hygienic Renovating Company, Chicago, Ill. Cleaning device. No. 970,466; Sept. 20; Sp. p. 2821; Gaz. vol. 158; p. 493.
Clements, William N., Philadelphia, Pa., assignor to The Printers Cooperative Type Founders Co. Type-casting machine. No. 948,605; Feb. 8; Sp. p. 1746; Gaz. vol. 151; p. 302.
Clemm, Adolf, Mannheim, Germany. Treating barium chlorid and strontium chlorid for producing chlorin and hydroxid of the said metals. No. 973,171; Oct. 18; Sp. p. 3684; Gaz. vol. 159; p. 631.
Clemmer, George B., Trenton, N. J. Condiment-holder. No. 956,942; May 3; Sp. p. 949; Gaz. vol. 154; p. 152.
Clemmer, Howard M., Dallas, N. C. Metallic shingle. No. 970,885; Sept. 20; Sp. p. 3734; Gaz. vol. 158; p. 638.
Clemmer, Martin L., Bostic, assignor of one-fourth to C. M. Martin and one-fourth to G. E. Young, Forest City, N. C. Vehicle-axle lubricator. No. 956,289; Apr. 26; Sp. p. 5655; Gaz. vol. 153; p. 984.
Cleopatra Vanity Box Company. (See Davis, Samuel, assignor.)
Clerk, Annie M., Montreal, Quebec, Canada. Curtain ring and hook. No. 959,921; May 31; Sp. p. 7561; Gaz. vol. 154; p. 1277.
Clerk, William T., Washington, D. C. Puzzle. No. 960,623; June 7; Sp. p. 792; Gaz. vol. 155; p. 129.
Clerkin, William, Akron, Ohio, assignor to The Taplin, Rice-Clerkin Company. Grate for stoves or furnaces. No. 976,848; Nov. 29; Sp. p. 6097; Gaz. vol. 160; p. 1049.
Clermont, John B., New York, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door. No. 974,750; Nov. 1; Sp. p. 1525; Gaz. vol. 160; p. 234.
Cleveland Aeroplane Co. (See Anderson and Brockway, assignors.)
Cleveland-Akron Bag Company. (See Rogers, John, assignor.)
Cleveland Automatic Machine Company. (See Brophy, John P., assignor.)
Cleveland Collet and Machine Company, The. (See Schultis, Charles F., assignor.)
Cleveland Flushometer Company, The. (See Grabler, Peter, assignor.)
Cleveland Gas Mantle and Supply Company, The. (See Lister, John T., assignor.)
Cleveland, George E., Fairmount, Ind. Container. No. 950,475; Mar. 1; Sp. p. 28; Gaz. vol. 152; p. 6.
Cleveland Hardware Company, The. (See Hickok, Lester E., assignor.)
Cleveland, Heman C., Buffalo, N. Y. Game apparatus. No. 970,799; Sept. 20; Sp. p. 3574; Gaz. vol. 158; p. 611.
Cleveland Phonograph Record Company, The. (See Harris, Varian M., assignor.) (Reissue.)
Cleveland Railway Supply Company, The. (See Newhall, Walter S., assignor.)
Cleveland Rock Drill Company, The. (See Richards, Charles B., assignor.)
Cleveland Steel Tool Company, The. (See Siegrist, Charles F., assignor.)
Cleveland Steel Tool Company, The. (See Silliman, Benjamin F., assignor.)
Cleveland, Stephen J., Mansfield, Pa. Combined door hanger and track. No. 972,679; Oct. 11; Sp. p. 2541; Gaz. vol. 159; p. 433.
Cleveland Twist Drill Co., The. (See Peck, Eugene C., assignor.)

Alphabetical list of patentees—Continued.

Cleveland Twist Drill Company, The. (See Cox, Samuel H., assignor.)
Cleveland Twist Drill Company, The. (See Ward, Alvin, assignor.)
Cleveland, William B., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail-bond. No. 959,718; May 31; Sp. p. 7109; Gaz. vol. 154; p. 1207.
Cleveland Wire Spring Company, The. (See Barker, Charles R., assignor.)
Clevenger, Isaac C., Buchanan, Mich. Ladder. No. 977,853; Dec. 6; Sp. p. 944; Gaz. vol. 161; p. 149.
Clewell, Eva M., Canton, Ohio. Combination brace-waist. No. 971,524; Oct. 4; Sp. p. 28; Gaz. vol. 159; p. 7.
Click, Kelsie, Cardington, Ohio. Shade and curtain support. No. 959,113; May 24; Sp. p. 5853; Gaz. vol. 154; p. 981.
Click, Robert. (See Denis and Click.)
Cliff, Jeremiah, Kane, Pa. Cradle. No. 953,897; Apr. 5; Sp. p. 423; Gaz. vol. 153; p. 77.
Clifford, Frank L. (See Ingalls, Charles F., assignor.)
Clifford, George P. (See Quinn and Clifford.)
Clifford, Walter, London, England. Apparatus for punching and delivering tickets. No. 976,046; Nov. 15; Sp. p. 4284; Gaz. vol. 160; p. 720.
Clifford, William, Jeannette, Pa. Ventilating apparatus. No. 963,277; July 5; Sp. p. 639; Gaz. vol. 156; p. 89.
Clifford, William, Jeannette, Pa. Ventilating apparatus. No. 963,278; July 5; Sp. p. 643; Gaz. vol. 156; p. 89.
Clifton, Archer E., and W. W. Preston, Connersville, Ind., assignors to United Vacuum Appliance Company, New York, N. Y. Vacuum-cleaner. No. 971,595; Oct. 4; Sp. p. 183; Gaz. vol. 159; p. 33.
Clifton, James H. F., Pilotmountain, N. C. Cutting-machine. No. 957,747; May 10; Sp. p. 2642; Gaz. vol. 154; p. 455.
Clifton Manufacturing Company. (See Cragin, George N., assignor.)
Clifton, Ray H., East Peru, Iowa. Cranking device. No. 972,097; Oct. 4; Sp. p. 1258; Gaz. vol. 159; p. 213.
Climax Lock and Ventilator Co. (See Clark and Rosenberg.)
Climax Lock and Ventilator Co. (See Rosenberg and Clark, assignors.)
Climax Machinery Company. (See Hood, Ernest K., assignor.)
Clinch, Charles S., Lynn, Mass. Bow for apparel. No. 952,726; Mar. 22; Sp. p. 4629; Gaz. vol. 152; p. 839.
Clincostram, Nicholas, San Francisco, Cal. Legging. No. 963,032; July 5; Sp. p. 9; Gaz. vol. 156; p. 4.
Cline, Alva, Lima, Ohio. Latch. No. 973,919; Oct. 25; Sp. p. 5258; Gaz. vol. 159; p. 912.
Cline, Charles A., Jr., West Branch, Mich. Attachment for motor-vehicles. No. 972,821; Oct. 18; Sp. p. 2845; Gaz. vol. 159; p. 507.
Cline, Clarence C., Oakland, Cal. Fluid-jet motor. No. 961,209; June 14; Sp. p. 1966; Gaz. vol. 155; p. 355.
Cline, Daniel, Patoka, Ind. Railway-tie. No. 977,512; Dec. 6; Sp. p. 206; Gaz. vol. 161; p. 32.
Cline, Ora M., Marion, Ohio. Ironing-board. No. 969,684; Sept. 6; Sp. p. 1128; Gaz. vol. 158; p. 182.
Cline, Robert F., Los Angeles, Cal. Spice-mill. No. 973,761; Oct. 25; Sp. p. 4924; Gaz. vol. 159; p. 857.
Cline, Samuel, assignor to G. A. Reach, Philadelphia, Pa. Boxing-glove. No. 955,136; Apr. 19; Sp. p. 3111; Gaz. vol. 153; p. 558.
Clingler, William O. (See Stevenson, Thomas E., assignor.)
Clinton, Elbert, Hamden, Conn. Cranking device for internal-combustion engines. No. 977,931; Dec. 6; Sp. p. 1106; Gaz. vol. 161; p. 176.
Clinton, Lucius A., Detroit, Mich., assignor to The Diamond Match Company, New York, N. Y. Machine for assembling and screening splints. No. 952,512; Mar. 22; Sp. p. 4144; Gaz. vol. 152; p. 763.
Clinton Wire Cloth Company. (See Swinscoe, Charles, assignor.)
Clippinger, Amos B. and M. A., Kansas City, Mo. Shoveling-board. No. 961,482; June 14; Sp. p. 2563; Gaz. vol. 155; p. 448.
Clippinger, Maurice A. (See Clippinger, Amos B. and M. A.)
Clishum, John T., Pittsburg, Pa. Sole and heel plate. No. 977,272; Nov. 29; Sp. p. 7043; Gaz. vol. 160; p. 1198.
Cloak, Donald M., Dover, Del. Music-roll producer for self-playing pianos. No. 961,754; June 21; Sp. p. 3124; Gaz. vol. 155; p. 563.
Cloes, Benjamin J., Highland, Cal. Fruit clipping and pruning instrument. No. 974,553; Nov. 1; Sp. p. 1103; Gaz. vol. 160; p. 166.
Clore, Withrow, assignor of one-half to F. C. Milligan, Waveland, Ind. Clamping device. No. 975,832; Nov. 15; Sp. p. 3866; Gaz. vol. 160; p. 653.
Close, Dorr R., Chicago, Ill. Vehicle-spring. No. 949,112; Feb. 15; Sp. p. 2809; Gaz. vol. 151; p. 497.
Close, Dorr R., Chicago, Ill. Vehicle-spring. No. 963,870; July 12; Sp. p. 1894; Gaz. vol. 156; p. 311.
Close, Edmund E., Brockton, Mass., assignor of one-third to E. F. Boyd, Bangor, Me. Car-fender. No. 950,203; Feb. 22; Sp. p. 5151; Gaz. vol. 151; p. 904.
Close, George H. (See Lovett, Lewis L., assignor.)
Close, Martha, New York, N. Y. Hair puff and means for supporting the same. No. 968,514; Aug. 23; Sp. p. 5694; Gaz. vol. 157; p. 980.
Cloud, Agnes D., New York, N. Y. Dentimeter. No. 955,320; Apr. 19; Sp. p. 3504; Gaz. vol. 153; p. 621.
Cloud, Arthur D. (See Latimer and Cloud.)
Cloud, John W., London, England. Apparatus for aerial machines, nautical ships, vehicles, and other purposes. No. 968,127; Aug. 23; Sp. p. 4872; Gaz. vol. 157; p. 845.
Cloud, John W., London, England, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 959,114; May 24; Sp. p. 5854; Gaz. vol 154; p. 981.
Cloud, Otho E., and A. W. Albers, Philadelphia, Pa.; said Albers assignor to said Cloud. Calculating-machine. No. 976,152; Nov. 22; Sp. p. 4532; Gaz. vol. 160; p. 785.
Cloudy, Francis A., Startup, Wash. Cant-dog. No. 976,986; Nov. 29; Sp. p. 6436; Gaz. vol. 160; p. 1099.
Clough, George W., Cleveland, Ohio. Portable vulcanizer. No. 973,476; Oct. 25; Sp. p. 4327; Gaz. vol. 159; p. 758.
Clough, William R., Alton, N. H. Bottle-cap lifter. No. 950,509; Mar. 1; Sp. p. 102; Gaz. vol. 152; p. 17.
Clouse, Joseph N., St. Louis, Mo., assignor to The Patent Heading Company, Toledo, Ohio. Fastener for barrel-heads. No. 949,975; Feb. 22; Sp. p. 4623; Gaz. vol. 151; p. 825.
Clouse, Joseph N., St. Louis, Mo., assignor, by mesne assignments, to The Patent Heading Company. Barrel-head fastener. No. 956,759; May 3; Sp. p. 558; Gaz. vol. 154; p. 89.
Clouston, Thomas, Vancouver, British Columbia, Canada. Gas-producer. No. 946,820; Jan. 18; Sp. p. 4052; Gaz. vol. 150; p. 672.
Clow, Benjamin, Dalton, Mass. Horse-overshoe. No. 955,765; Apr. 19; Sp. p. 4479; Gaz. vol. 153; p. 773.
Clow, William J., Independence, Mo. Target-trap. No. 948,499; Feb. 8; Sp. p. 1517; Gaz. vol. 151; p. 268.
Clubb, John W., Paris, Ill. Metallic railway cross, bridge, and switch tie and fastening. No. 971,491; Sept. 27; Sp. p. 4938; Gaz. vol. 158; p. 864.
Cluett, Peabody & Company. (See Estes and Forward, assignors.)
Cluin, John J., Chicago, Ill. Miner's candlestick. No. 951,595; Mar. 8; Sp. p. 2295; Gaz. vol. 152; p. 398.
Cluley, Charles J., and J. W. Raby, Coventry, England. Tool-holder. No. 950,222; Feb. 22; Sp. p. 5189; Gaz. vol. 151; p. 911.
Clupka, Daniel J., Gainesville, Fla. Weighing-scoop. No. 956,626; May 3; Sp. p. 256; Gaz. vol. 154; p. 43.
Clutsam, Frederick, St. Kilda, Victoria, Australia. Keyboard. No. 971,172; Sept. 27; Sp. p. 4336; Gaz. vol. 158; p. 760.
Clutter, Alexander, Youngstown, Ohio. Mailing device. No. 976,783; Nov. 22; Sp. p. 5944; Gaz. vol. 160; p. 1003.
Clutter, John W., Rockford, Ohio. Clover-huller. No. 956,886; May 3; Sp. p. 844; Gaz. vol. 154; p. 134.
Clyde Iron Works. (See McGiffert, John R., assignor.)
Clymans, Ezra G., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Conveyer-apron. No. 954,781; Apr. 12; Sp. p. 2354; Gaz. vol. 153; p. 407.
Clymer, Frederick, Belmar, and J. Degen, Trenton, N. J., assignors to United Revolving Door Company. Revolving door. No. 975,510; Nov. 15; Sp. p. 3196; Gaz. vol. 160; p. 544.
Clymer, George N. (See Spicer, George W., assignor.)
Clyne, James P. (See Callahan, Francis H., assignor.)
Coachman, Hentz. (See Castro, A. A. de A. de, assignor.)
Coale, George O. G., trustee. (See Palmer, Roderick M., assignor.)
Coates, George H., Worcester, Mass. Sanitary cover for flesh-contact implements. No. 965,564; July 26; Sp. p. 5567; Gaz. vol. 156; p. 947.
Coates, George W. (See Gee and Coates.)
Coates, Jennie E., administratrix. (See Coates, William S.)
Coates, Joseph S., Goshen, N. Y. Clutch. No. 950,164; Feb. 22; Sp. p. 5069; Gaz. vol. 151; p. 890.
Coates, Leonard R., Baltimore, Md. Producing fertilizers. No. 947,795; Feb. 1; Sp. p. 33; Gaz. vol. 151; p. 8.
Coates, Leonard R., Baltimore, Md. Fertilizer and producing same. No. 947,796; Feb. 1; Sp. p. 34; Gaz. vol. 151; p. 8.
Coates, Leonard R., Baltimore, Md. Making soil antitoxin. No. 947,797; Feb. 1; Sp. p. 35; Gaz. vol. 151; p. 8.
Coates, Leonard R., Baltimore, Md. Producing fertilizers. No. 947,798; Feb. 1; Sp. p. 36; Gaz. vol. 151; p. 8.
Coates, Leonard R., Baltimore, Md. Manufacture of fertilizer. No. 971,830; Oct. 4; Sp. p. 665; Gaz. vol. 159; p. 117.
Coates, Raymond, assignor of one-half to J. H. Antis, Jackson, Mich. Thill-coupling. No. 969,937; Sept. 13; Sp. p. 1711; Gaz. vol. 158; p. 294.
Coates, William S., deceased; Jennie E. Coates, administratrix, assignor of one-half to Henry J. McCabe, Cedar Rapids, Iowa. Dump-wagon. No. 960,241; May 31; Sp. p. 8248; Gaz. vol. 154; p. 1388.
Coats, Henry L., Moscow, Idaho. Gate-operating mechanism. No. 950,659; Mar. 1; Sp. p. 420; Gaz. vol. 152; p. 68.

Alphabetical list of patentees—Continued.

Coats, Louis L., Bingham, Utah. Car and engine replacer. No. 979,131; Dec. 20; Sp. p. 3738; Gaz. vol. 161; p. 647.
Cobb, Elmer M., assignor to E. M. Lang, Jr., Portland Me. Can-cap dropper. No. 962,316; June 21; Sp. p. 4360; Gaz. vol. 155; p. 753.
Cobb, Elmer M., South Portland, assignor to E. M. Lang, Jr., Portland, Me. Safety yieldable gearing. No. 970,991; Sept. 20; Sp. p. 3934; Gaz. vol. 158; p. 672.
Cobb, Elmer M., South Portland, assignor to Lang-Cobb Manufacturing Company, Portland, Me. Boring device. No. 976,635; Nov. 22; Sp. p. 5634; Gaz. vol. 160; p. 952.
Cobb, Frederick D. H., *et al.* (See Burns, Albert J., assignor.)
Cobb, Henry Z., Malden, Mass. Making rubber tires. No. 969,131; Aug. 30; Sp. p. 7002; Gaz. vol. 157; p. 1218.
Cobb, Henry Z., Malden, assignor to Revere Rubber Company, Boston, Mass. Braided hose. No. 957,867; May 17; Sp. p. 2897; Gaz. vol. 154; p. 525.
Cobb, James H., and G. T. Fleming, Belton, assignors to E. S. Tennent, Spartanburg, S. C. Device for loading traveler-holders. No. 948,161; Feb. 1; Sp. p. 783; Gaz. vol. 151; p. 129.
Cobb, Julius O., Milwaukee, Wis. System and apparatus for propelling vehicles by compressed air. No. 969,772; Sept. 13; Sp. p. 1342; Gaz. vol. 158; p. 237.
Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Bicycle-fork. No. 963,992; July 12; Sp. p. 2148; Gaz. vol. 156; p. 351.
Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Spring-fork for bicycles. No. 963,993; July 12; Sp. p. 2150; Gaz. vol. 156; p. 351.
Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Pistol-grip. No. 966,165; Aug. 2; Sp. p. 697; Gaz. vol. 157; p. 110.
Cobb Preserving Company *et al.* (See Burns, Albert J., assignor.)
Coburn, Howard L., Boston, Mass. Flashboard. No. 954,257; Apr. 5; Sp. p. 1189; Gaz. vol. 153; p. 199.
Coburn, Ralph G. (See Strid, Sven J., assignor.)
Coburn Trolley Track Manufacturing Company, The. (See Ballard, Harry E., assignor.)
Cochell, Stephen A., Detroit, Mich. Polishing-wheel. No. 957,496; May 10; Sp. p. 2140; Gaz. vol. 154; p. 370.
Cochran, Albert H., Sr., *et al.* (See Frye, Charles W., assignor.)
Cochran, Alfred W., New York, N. Y. Securing means for socketed members. No. 948,294; Feb. 1; Sp. p. 1067; Gaz. vol. 151; p. 173.
Cochran, Chan H., Portland, Oreg. Shoe-polishing device. No. 960,506; June 7; Sp. p. 542; Gaz. vol. 155; p. 89.
Cochran, Charles C., Lawrence, Kans., assignor of one-half to C. E. Dovey, High River, Canada. Station-indicator. No. 947,694; Jan. 25; Sp. p. 5968; Gaz. vol. 150; p. 993.
Cochran, Charles H., *et al.* (See Owen, Charles L., assignor.)
Cochran, Edwin J., Sterling, Ill. Chimney-cap. No. 976,849; Nov. 29; Sp. p. 6099; Gaz. vol. 160; p. 1049.
Cochran, Fred R., Windsor, Nova Scotia, Canada. Nut-lock. No. 960,507; June 7; Sp. p. 543; Gaz. vol. 155; p. 89.
Cochran, Frederic B., New York, N. Y. Vacuum cleaning apparatus. No. 975,396; Nov. 15; Sp. p. 2965; Gaz. vol. 160; p. 503.
Cochran, Joseph E., Elkhart, Ind. Computing-scale dial. No. 956,682; May 3; Sp. p. 381; Gaz. vol. 154; p. 63.
Cochran, Joseph E., Elkhart, Ind. Computing-scale dial. No. 957,934; May 17; Sp. p. 3055; Gaz. vol. 154; p. 549.
Cochran, Michael L., Durbin, W. Va. Tool. No. 975,210; Nov. 8; Sp. p. 2579; Gaz. vol. 160; p. 416.
Cochran, Phoebe, administratrix. (See Cochran, Walter J.)
Cochran, Robert B., Charlotte, N. C. Machine for making bottle-caps. No. 956,887; May 3; Sp. p. 845; Gaz. vol. 154; p. 134.
Cochran, Thomas T., and R. Z. Gardner, Atlanta, Ga. Display apparatus. No. 966,083; Aug. 2; Sp. p. 511; Gaz. vol. 157; p. 83.
Cochran, Walter J., deceased, Los Angeles, Cal.; P. Cochran, administratrix. Rock breaker and crusher. No. 966,651; Aug. 9; Sp. p. 1741; Gaz. vol. 157; p. 297.
Cochran, Wesley E., assignor to The Howler Manufacturing Co., Montgomery, Ala. Alcohol-gas burner. No. 948,982; Feb. 8; Sp. p. 2526; Gaz. vol. 151; p. 429.
Cochrane, David, Philadelphia, Pa. Means of regulating, treating, and distributing water or other fluid. No. 964,613; July 19; Sp. p. 3461; Gaz. vol. 156; p. 592.
Cockburn Barrow & Machine Company. (See McIlvrid, William, assignor.)
Cocker, George B., Philadelphia, Pa. Machine for linking warps. No. 969,155; Sept. 6; Sp. p. 8; Gaz. vol. 158; p. 4.
Cocker, John A., Joliet, Ill., assignor to The American Steel and Wire Company, Pittsburg, Pa. Crimping-machine. No. 973,477; Oct. 25; Sp. p. 4328; Gaz. vol. 159; p. 759.
Cockerell, Andrew J., Chillicothe, Ohio. Cleaner for third rails. No. 972,600; Oct. 11; Sp. p. 2385; Gaz. vol. 159; p. 407.
Cocking, Joseph, Esmond, N. D. Shock and hay loader. No. 948,006; Feb. 1; Sp. p. 469; Gaz. vol. 151; p. 76.
Cockings, George E. (See Michael and Cockings.)
Cockrell, Francis M., Jr., New Orleans, La. Sugar-cane stripper and topper. No. 976,850; Nov. 29; Sp. p. 6100; Gaz. vol. 160; p. 1050.
Cockrell, Henry B., and H. B. Miller, Washington, D. C. Hand-hole scraper. No. 963,421; July 5; Sp. p. 921; Gaz. vol. 156; p. 137.
Cocksedge, Herbert E. (See Freeth and Cocksedge.)
Cockshott, Edgar H., Leeds, and A. W. Maley, West Bromwich, England. Magnetic brake-shoe. No. 965,798; July 26; Sp. p. 6057; Gaz. vol. 156; p. 1027.
Coco, Paulin J., Hamburg, La. Boll-weevil exterminator. No. 974,751; Nov. 1; Sp. p. 1526; Gaz. vol. 160; p. 234.
Codd, Mortimer A., London, England. Operation of signal-horns. No. 979,061; Dec. 20; Sp. p. 3545; Gaz. vol. 161; p. 620.
Coddington, Erastus L., Vanburen, assignor of one-half to C. M. Stuart, Marion, Ind. Lifting-jack. No. 964,394; July 12; Sp. p. 2941; Gaz. vol. 156; p. 486.
Coddington, Rebecca V., Gallup, N. Mex. Surgical binder. No. 976,550; Nov. 22; Sp. p. 5470; Gaz. vol. 160; p. 924.
Coder, James D., Elizabeth, N. J. Bracket for combination electric and gas fixtures. No. 964,493; July 19; Sp. p. 3160; Gaz. vol. 156; p. 549.
Cody, James E., and F. J. Koors, St. Paul, Minn. Sink-strainer. No. 948,954; Feb. 8; Sp. p. 2467; Gaz. vol. 151; p. 419.
Cody, Robert D., Chicago, Ill. Incandescent light. No. 958,094; May 17; Sp. p. 3597; Gaz. vol. 154; p. 606.
Coe Brass Manufacturing Company, The. (See Taylor, Henry E. P., assignor.)
Coe, Emery M., Milford Center, Ohio. Reversible bridle-bit. No. 962,005; June 21; Sp. p. 3671; Gaz. vol. 155; p. 645.
Coe, Harrison S., Palo Alto, Cal. Miner's and assayer's scale. No. 977,513; Dec. 6; Sp. p. 207; Gaz. vol. 161; p. 32.
Coe, John B., assignor of one-fourth to J. E. Hilton, Boston, Mass. Adjustable electric-lamp support. No. 960,076; May 31; Sp. p. 7932; Gaz. vol. 154; p. 1331.
Coe, Sara L. (See Werden, Henrietta, assignor.)
Coe, Sara L. W. (See Werden and Coe.)
Coe, Sara L. W., and H. T. Werden, New York, N. Y. Machine for notching and slitting strips. No. 964,614; July 19; Sp. p. 3464; Gaz. vol. 156; p. 592.
Coe, Sara W. (See Stacy, James N., assignor.)
Coe-Stapley Manufacturing Company, The. (See Stapley, William S., assignor.)
Coe, Will. (See Speir, William B., assignor.)
Coenen, John L., Little Chute, Wis. Hydraulic pulp or paper press. No. 976,551; Nov. 22; Sp. p. 5471; Gaz. vol. 160; p. 924.
Coes, Zorester B., assignor to Edwin Harrington, Son & Company, Inc., Philadelphia, Pa. Lathe. No. 948,467; Feb. 8; Sp. p. 1436; Gaz. vol. 151; p. 257.
Coes, Zorester B., R. F. Scott, and C. H. Thumlert, assignors to Edwin Harrington, Son & Co., Incorporated, Philadelphia, Pa. Turning mechanism. No. 962,197; June 21; Sp. p. 4114; Gaz. vol. 155; p. 714.
Coes, Zorester B., R. F. Scott, and C. H. Thumlert, assignors to Edwin Harrington, Son & Company, Incorporated, Philadelphia, Pa. Mechanism for cutting bolts. No. 965,156; July 26; Sp. p. 4662; Gaz. vol. 156; p. 807.
Coffee, Robert W., Richmond, Va., assignor to L. M. Keizer, Baltimore, Md. Transmission-gear mechanism. No. 970,467; Sept. 20; Sp. p. 2822; Gaz. vol. 158; p. 493.
Coffey, Barton H., Elizabeth, N. J. Subaqueous rock-breaker. No. 948,989; Feb. 15; Sp. p. 2545; Gaz. vol. 151; p. 458.
Coffey, Barton H., Boston, Mass. Silhouettegraph. No. 951,472; Mar. 8; Sp. p. 2060; Gaz. vol. 152; p. 357.
Coffey, Barton H., Boston, Mass. Vibrating propeller. No. 972,337; Oct. 11; Sp. p. 1782; Gaz. vol. 159; p. 313.
Coffey, Irven E., Lawton, Okla. Resistance-coil. No. 971,525; Oct. 4; Sp. p. 29; Gaz. vol. 159; p. 7.
Coffey, John A., and C. C. Bowen, Cadillac, Mich. Corner-fastening device for boxes, crates, &c. No. 952,785; Mar. 22; Sp. p. 4765; Gaz. vol. 152; p. 858.
Coffey, John A., and C. C. Bowen, Cadillac, Mich. Knock-down box, crate, &c. No. 952,786; Mar. 22; Sp. p. 4766; Gaz. vol. 152; p. 859.
Coffey, John A., and C. C. Bowen, Cadillac, Mich. Collapsible crate, box, &c. No. 962,745; June 28; Sp. p. 5301; Gaz. vol. 155; p. 925.
Coffey, Michael L., Providence, R. I., assignor to General Electric Company. Insulating-tube. No. 946,655; Jan. 18; Sp. p. 3672; Gaz. vol. 150; p. 615.
Coffeyville Implement and Manufacturing Co., The. (See Winters, Edward B., assignor.)
Coffield, C. H. (See Hewitt, Ditus P., assignor.)
Coffield, George W., Cleveland, Ohio. Water-motor. No. 955,501; Apr. 19; Sp. p. 3894; Gaz. vol. 153; p. 684.
Coffield, Peter T., Dayton, Ohio. Hydraulic motor. No. 962,623; June 28; Sp. p. 5047; Gaz. vol. 155; p. 882.
Coffin, Everett M., Oakland, Cal. Electric switch. (Reissue.) No. 13,114; May 10; Sp. p. 2879; Gaz. vol. 154; p. 495.
Coffin, Henry E., Hackensack, N. J., assignor to Brown & Root Company, New York, N. Y. Apparatus for drying eggs. No. 977,371; Nov. 29; Sp. p. 7261; Gaz. vol. 160; p. 1232.

Alphabetical list of patentees—Continued.

Coffin, Henry O., Terre Haute, Ind. Scaffold. No. 951,596; Mar. 8; Sp. p. 2296; Gaz. vol. 152; p. 398.
Coffin, Howard E., Detroit, Mich. Radius-rod. No. 969,748; Sept. 6; Sp. p. 1280; Gaz. vol. 158; p. 205.
Coffin, Howard E., assignor to E. R. Thomas Detroit Co., Detroit, Mich. Means for controlling automobiles. No. 951,984; Mar. 15; Sp. p. 3102; Gaz. vol. 152; p. 559.
Coffin, Howard E., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Running-board for automobiles. No. 967,170; Aug. 16; Sp. p. 2887; Gaz. vol. 157; p. 500.
Coffin, Mark. (See Buis, William A., assignor.)
Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Washer. No. 951,766; Mar. 8; Sp. p. 2645; Gaz. vol. 152; p. 457.
Coffin, William G., Peabody, Mass. Glazier's putty-plane. No. 946,723; Jan. 18; Sp. p. 3817; Gaz. vol. 150; p. 637.
Coffman, Albert. (See Craig and Coffman.)
Coffman, Salah W., Keota, Iowa. Trace-carrier. No. 976,636; Nov. 22; Sp. p. 5637; Gaz. vol. 160; p. 953.
Cofield, John L., Mount Vernon, Ill. Ball-bearing tool holding and display rack. No. 945,223; Jan. 4; Sp. p. 449; Gaz. vol. 150; p. 74.
Cogger, William B., Cleveland, assignor to T. Kundtz, Lakewood, Ohio. Vertically-adjustable support. No. 968,449; Aug. 23; Sp. p. 5548; Gaz. vol. 157; p. 957.
Cogger, William B., assignor to T. Kundtz, Cleveland, Ohio. School-seat. No. 975,019; Nov. 8; Sp. p. 2140; Gaz. vol. 160; p. 349.
Coggins, Luther D. (See Hard, Edward, assignor.)
Cogle, William J., *et al.* (See Fay, Alpheus, assignor.)
Cogswell, Elmer E., Syracuse, N. Y. Drill-chuck. No. 962,746; June 28; Sp. p. 5302; Gaz. vol. 155; p. 926.
Cogswell, Elmer E., Syracuse, N. Y. Drill-chuck. No. 969,341; Sept. 6; Sp. p. 396; Gaz. vol. 158; p. 64.
Cohen, George. (See Seaman and Cohen.)
Cohen, Hyman, New York, N. Y. Tire-trunk. No. 953,735; Apr. 5; Sp. p. 109; Gaz. vol. 153; p. 21.
Cohen, Hyman, New York, N. Y. Tire-trunk. No. 953,736; Apr. 5; Sp. p. 110; Gaz. vol. 153; p. 22.
Cohen, Hyman, New York, N. Y. Foot-support. No. 971,973; Oct. 4; Sp. p. 1032; Gaz. vol. 159; p. 172.
Cohen, Jacob, New York, N. Y. Garment. No. 971,664; Oct. 4; Sp. p. 317; Gaz. vol. 159; p. 57.
Cohen, Jacob G., New York, N. Y. Combined envelop, remittance-sheet, and check. No. 977,782; Dec. 6; Sp. p. 800; Gaz. vol. 161; p. 124.
Cohen, Joshua L., (by judicial change of name now J. L. Cowen,) New York, N. Y., assignor to The Lionel Manufacturing Company. Toy-railway rail. No. 976,722; Nov. 22; Sp. p. 5795; Gaz. vol. 160; p. 981.
Cohen, Sam L., New York, N. Y. Sewing-machine. No. 956,888; May 3; Sp. p. 848; Gaz. vol. 154; p. 134.
Cohn, Arnold, and L. M. Kronheimer, New York, N. Y. Glue-applying machine. No. 963,033; July 5; Sp. p. 10; Gaz. vol. 156; p. 4.
Cohn, Charles W., New York, N. Y. Box. No. 959,922; May 31; Sp. p. 7562; Gaz. vol. 154; p. 1277.
Cohn, Henry J. (See Stoetzel, Joseph J., assignor.)
Cohn, Hugo, Görlitz, Germany. Protecting matrices. No. 949,819; Feb. 22; Sp. p. 4272; Gaz. vol. 151; p. 770.
Cohn, Samuel, assignor to The Machine Mantle Sewing Company, New York, N. Y. Mantle-sewing machine. No. 956,943; May 3; Sp. p. 951; Gaz. vol. 154; p. 152.
Cohn, Solomon, New York, N. Y., assignor to National Cloak and Suit Company. Skirt. No. 947,479; Jan. 25; Sp. p. 5539; Gaz. vol. 150; p. 921.
Coin Controlled Lock Company. (See Farnsworth and Reed, assignors.)
Coin Controlling Lock Company, The. (See Kluge, William H., assignor.)
Colbath, Monroe D., Hampden, Me. Automatic valve for carbureters, &c. No. 954,258; Apr. 5; Sp. p. 1191; Gaz. vol. 153; p. 199.
Colbert, Clarence F., Oak Park, assignor to Sprague Canning Machinery Company, Chicago, Ill. Can-righting device. No. 949,647; Feb. 15; Sp. p. 3889; Gaz. vol. 151; p. 677.
Colbert, John, Arlington, S. C. Shoe-heel. No. 975,397; Nov. 15; Sp. p. 2967; Gaz. vol. 160; p. 504.
Colborne, Oliver, Chicago, Ill. Pie-crust-rimming machine. No. 945,913; Jan. 11; Sp. p. 2024; Gaz. vol. 150; p. 336.
Colborne, Oliver, Chicago, Ill. Pie-crust-forming machine. No. 956,683; May 3; Sp. p. 384; Gaz. vol. 154; p. 64.
Colborne, Oliver, Chicago, Ill. Pie-filling machine. No. 956,684; May 3; Sp. p. 385; Gaz. vol. 154; p. 64.
Colburn, Irving W., assignor to Colburn Machine Glass Company, Franklin, Pa. Method and apparatus for tempering the sheet source in sheet-glass-drawing machines. No. 966,652; Aug. 9; Sp. p. 1743; Gaz. vol. 157; p. 297.
Colburn, Irving W., assignor to Colburn Machine Glass Company, Franklin, Pa. Method and apparatus for tempering the sheet source in sheet-glass-drawing machines. No. 966,653; Aug. 9; Sp. p. 1748; Gaz. vol. 157; p. 298.
Colburn, Irving W., assignor to Colburn Machine Glass Company, Franklin, Pa. Means for drawing sheet-glass. No. 970,182; Sept. 13; Sp. p. 2215; Gaz. vol. 158; p. 377.
Colburn, Irving W., assignor to Colburn Machine Glass Company, Franklin, Pa. Machine for drawing sheet-glass. No. 973,002; Oct. 18; Sp. p. 3291; Gaz. vol. 159; p. 572.
Colburn Machine Glass Company. (See Colburn, Irving W., assignor.)
Colburn Machine Tool Company. (See Clarke, Frederick F., assignor.)
Colby, Harry W., assignor to Automatic Racking Machine Company, Chicago, Ill. Barrel-filling machine. No. 959,463; May 31; Sp. p. 6575; Gaz. vol. 154; p. 1122.
Colby, Madison G., Franklin, N. H. Wagon-jack. No. 957,308; May 10; Sp. p. 1754; Gaz. vol. 154; p. 307.
Colby, Theodore P., Boston, Mass. Sleeve-protector. No. 964,395; July 12; Sp. p. 2942; Gaz. vol. 156; p. 486.
Colby, William R., *et al.* (See Bice, Walter H., assignor.)
Colby, Willis H., near Chattanooga, Tenn. Tool-chest. No. 978,358; Dec. 13; Sp. p. 2033; Gaz. vol. 161; p. 354.
Cole, Albert L., Auburndale, assignor to F. C. Parmenter, Gloucester, Mass. Packing. No. 972,680; Oct. 11; Sp. p. 2543; Gaz. vol. 159; p. 433.
Cole, Albert W. (See Dow, George B. N., assignor.)
Cole, Albert W. (See Dow and Cole.)
Cole, Alexander G., Ottawa, Ontario, Canada. Collapsible canopy attachment for cots or the like. No. 969,342; Sept. 6; Sp. p. 399; Gaz. vol. 158; p. 65.
Cole, Archibald, New York, N. Y., assignor, by mesne assignments, to The Fuller Manufacturing Company, New Haven, Conn. Paper-feeding machine. No. 945,304; Jan. 4; Sp. p. 647; Gaz. vol. 150; p. 101.
Cole, Charles. (See White and Cole.)
Cole, Charles C., assignor of one-tenth to R. E. Black, Camden, N. J. Last-jack. No. 962,747; June 28; Sp. p. 5305; Gaz. vol. 155; p. 926.
Cole, Donald. (See Neff, Cole, and Ebersole.)
Cole, Dwight S., Detroit, Mich. Igniting apparatus. No. 951,724; Mar. 8; Sp. p. 2533; Gaz. vol. 152; p. 441.
Cole, Edward, assignor to J. Cole, New York, N. Y. Kiln. No. 959,996; May 31; Sp. p. 7741; Gaz. vol. 154; p. 1304.
Cole, Egbert L. (See Upham, William H., assignor.)
Cole, Elnathan, Los Angeles, Cal. Gravel-trap and air-chamber. No. 968,124; Aug. 23; Sp. p. 4864; Gaz. vol. 157; p. 844.
Cole, Elton A. (See Holdgate, Edward, assignor.)
Cole, Francis J., Schenectady, N. Y. Reach-rod guide. No. 968,835; Aug. 30; Sp. p. 6399; Gaz. vol. 157; p. 1116.
Cole, Francis J., New York, N. Y. Steam-boiler superheater. No. 978,987; Dec. 20; Sp. p. 3387; Gaz. vol. 161; p. 596.
Cole, Francis J., and H. B. Oatley, Schenectady, N. Y. Steam-boiler superheater. No. 949,147; Feb. 15; Sp. p. 2881; Gaz. vol. 151; p. 510.
Cole, Francis J., and H. R. Stafford, Schenectady, N. Y. Locomotive-engine. No. 966,166; Aug. 2; Sp. p. 698; Gaz. vol. 157; p. 110.
Cole, Frank A., Patton, Pa. Moving-picture machine. No. 947,095; Jan. 18; Sp. p. 4625; Gaz. vol. 150; p. 764.
Cole, Frederick W. (See Mellor and Cole.)
Cole, Frederick W., Newton, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y. Signal-box. No. 970,800; Sept. 20; Sp. p. 3576; Gaz. vol. 158; p. 611.
Cole, Frederick W., Newton, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Fire and police telegraph system. No. 970,886; Sept. 20; Sp. p. 3735; Gaz. vol. 158; p. 639.
Cole, Frederick W., Newton, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y. Fire-alarm-telegraph system. No. 970,887; Sept. 20; Sp. p. 3746; Gaz. vol. 158; p. 639.
Cole, George W., Buffalo, N. Y. Steam-trap, boiler-feed, and water-meter. No. 971,831; Oct. 4; Sp. p. 667; Gaz. vol. 159; p. 117.
Cole, George W., Englewood, N. J. Closure for receptacles. No. 977,932; Dec. 6; Sp. p. 1107; Gaz. vol. 161; p. 177.
Cole, Harlan P., New York, N. Y. Means for supporting wearing-apparel. No. 946,656; Jan. 18; Sp. p. 3673; Gaz. vol. 150; p. 615.
Cole, Harry, Tyrrell, Ohio. Shade-roller attachment. No. 961,680; June 14; Sp. p. 2972; Gaz. vol. 155; p. 514.
Cole, Herman V., Monte Vista, Colo. Gas-lighter for automobile-lamps. No. 961,681; June 14; Sp. p. 2973; Gaz. vol. 155; p. 514.
Cole, Jennette. (See Cole, Edward, assignor.)
Cole, John C., assignor to Fisk Rubber Company, Chicopee Falls, Mass. Removable wheel-rim. No. 948,813; Feb. 8; Sp. p. 2198; Gaz. vol. 151; p. 373.
Cole, Orpha B., and J. E. Wright, Omaha, Nebr. Gage attachment for shears. No. 959,464; May 31; Sp. p. 6579; Gaz. vol. 154; p. 1122.
Cole, Percival R., Littlewood, Ontario, assignor of one-half to J. H. Cormack, St. Thomas, Canada. Game-board. No. 963,686; July 5; Sp. p. 1438; Gaz. vol. 156; p. 226.
Cole, Robert C., West Hartford, assignor to The Johns-Pratt Company, Hartford, Conn. Fuse-box. No. 945,017; Jan. 4; Sp. p. 12; Gaz. vol. 150; p. 5.
Cole, Robert C., West Hartford, assignor to The Johns-Pratt Company, Hartford, Conn. Electric-meter-service protective apparatus. No. 950,316; Feb. 22; Sp. p. 5376; Gaz. vol. 151; p. 943.

Alphabetical list of patentees—Continued.

Cole, Robert E., Highland Creek, Ontario, Canada. Cushion-wheel. No. 960,154; May 31; Sp. p. 8071; Gaz. vol. 154; p. 1357.
Cole, Roudy B., Fredericktown, Mo. Concrete-block machine. No. 968,741; Aug. 30; Sp. p. 6213; Gaz. vol. 157; p. 1086.
Cole, Russel E., Democracy, Ohio. Carriage-lamp box. No. 946,338; Jan. 11; Sp. p. 2918; Gaz. vol. 150; p. 484.
Cole, Thomas M., Conway, Iowa. Door. No. 948,690; Feb. 8; Sp. p. 1927; Gaz. vol. 151; p. 331.
Cole, Thomas P., Memphis, Tenn. Gearing for motor-boats. No. 968,128; Aug. 23; Sp. p. 4876; Gaz. vol. 157; p. 846.
Cole, Walter, Chicago, Ill. Manufacturing butter. No. 961,483; June 14; Sp. p. 2565; Gaz. vol. 155; p. 448.
Cole, William, assignor of one-half to B. H. Wilkins, Tullahoma, Tenn. Window-locking device. No. 963,994; July 12; Sp. p. 2151; Gaz. vol. 156; p. 351.
Cole, William E., and W. W. Candler, Candler, N. C. Metallic cross-tie. No. 957,497; May 10; Sp. p. 2141; Gaz. vol. 154; p. 370.
Colebeck, George H., Darlington, Wis. Twine-cutter. No. 946,494; Jan. 11; Sp. p. 3345; Gaz. vol. 150; p. 537.
Colegrove, Charles E., East Cleveland, assignor to The White Sewing Machine Company, Cleveland, Ohio. Extension-leaf-latching mechanism for sewing-machines. No. 969,938; Sept. 13; Sp. p. 1713; Gaz. vol. 158; p. 295.
Coleman, Albert B., Oberlin, Ohio. Heat-distributing top for burners. No. 961,755; June 21; Sp. p. 3129; Gaz. vol. 155; p. 563.
Coleman, Charles E., Fort Gaines, Ga. Tooth-crown. No. 976,153; Nov. 22; Sp. p. 4543; Gaz. vol. 160; p. 786.
Coleman, Charles L., San Leandro, Cal. Wireless controlling device. No. 951,524; Mar. 8; Sp. p. 2160; Gaz. vol. 152; p. 375.
Coleman, Charles S., assignor to Railway Improvement Company, Spokane, Wash. Flue-point and its attachment to flue-sheets. No. 949,621; Feb. 15; Sp. p. 3841; Gaz. vol. 151; p. 669.
Coleman, Clyde J., New York, N. Y. Heat insulation. No. 946,772; Jan. 18; Sp. p. 3934; Gaz. vol. 150; p. 655.
Coleman, Clyde J., New York, N. Y. Heat-insulating wall. No. 946,773; Jan. 18; Sp. p. 3938; Gaz. vol. 150; p. 655.
Coleman, Clyde J., New York, N. Y. Heat-insulating wall. No. 948,541; Feb. 8; Sp. p. 1597; Gaz. vol. 151; p. 282.
Coleman, Clyde J., New York, N. Y. Heat-insulating wall. No. 958,095; May 17; Sp. p. 3598; Gaz. vol. 154; p. 607.
Coleman, Francis J., Pittsburg, Pa. Curtain-pole. No. 954,021; Apr. 5; Sp. p. 666; Gaz. vol. 153; p. 119.
Coleman, George D. (See Thompson, George W., assignor.)
Coleman, George L., Camden, N. J., assignor to Victor Talking Machine Company. Mounting for sound-boxes. No. 946,014; Jan. 11; Sp. p. 2234; Gaz. vol. 150; p. 371.
Coleman, George L., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box. No. 946,015; Jan. 11; Sp. p. 2236; Gaz. vol. 150; p. 371.
Coleman, James M., St. Lambert, Quebec, Canada. Freight-car. No. 975,398; Nov. 15; Sp. p. 2968; Gaz. vol. 160; p. 504.
Coleman, James M., St. Lambert, Quebec, assignor of one-half to A. Butze, Montreal, Canada. Railway-car construction. No. 947,372; Jan. 25; Sp. p. 5272; Gaz. vol. 150; p. 886.
Coleman, John, *et al.* (See McLaughlin, Charles H., assignor.)
Coleman, John J., *et al.* (See McLaughlin, Charles H., assignor.)
Coleman, John T. (See Johnson, Carl A., assignor.)
Coleman, John W., Madrid, Iowa. Windmill. No. 978,433; Dec. 13; Sp. p. 2192; Gaz. vol. 161; p. 380.
Coleman, Joseph C., New Albin, Iowa. Corn-planter. No. 947,799; Feb. 1; Sp. p. 39; Gaz. vol. 151; p. 9.
Coleman, Joseph C., New Albin, Iowa. Corn-planter. No. 947,800; Feb. 1; Sp. p. 42; Gaz. vol. 151; p. 9.
Coleman, Lewis A., assignor of one-third to R. H. Gregory, Norfolk, Va. Mortise-lock. No. 977,783; Dec. 6; Sp. p. 801; Gaz. vol. 161; p. 124.
Coleman, Lewis A., and H. Abrames, Norfolk, Va. Car-replacer. No. 945,755; Jan. 11; Sp. p. 1660; Gaz. vol. 150; p. 279.
Coleman, Samuel, assignor to B. C. Farr, Lexington, Miss. Harpooning device. No. 970,018; Sept. 13; Sp. p. 1898; Gaz. vol. 158; p. 322.
Coleman, Samuel H., assignor of one-half to L. B. Penton, Villisca, Iowa. Well-boring machine. No. 978,699; Dec. 13; Sp. p. 2768; Gaz. vol. 161; p. 472.
Coleman, Thomas A., Longville, assignor to C. T. Patterson Company, Ltd., New Orleans, La. Chain conveyer. No. 977,273; Nov. 29; Sp. p. 7044; Gaz. vol. 160; p. 1198.
Coleman, William, C., Wichita, Kans. Lamp. No. 965,439; July 26; Sp. p. 5269; Gaz. vol. 156; p. 902.
Coleman, William C., Wichita, Kans. Lamp. No. 965,440; July 26; Sp. p. 5271; Gaz. vol. 156; p. 902.
Coleman, William C., Wichita, Kans. Lamp. No. 965,872; Aug. 2; Sp. p. 51; Gaz. vol. 157; p. 10.
Coleman, William C., Wichita, Kans. Lamp. No. 976,723; Nov. 22; Sp. p. 5796; Gaz. vol. 160; p. 981.
Coleman, William C., Wichita, Kans. Automatic cut-off. No. 976,724; Nov. 22; Sp. p. 5798; Gaz. vol. 160; p. 982.
Coleman, William C., Chicago, Ill., assignor of one-half to A. C. Flothow, Omaha, Nebr. Refrigerator. No. 950,763; Mar. 1; Sp. p. 644; Gaz. vol. 152; p. 104.
Coleman, William O., Sr., Chicago, Ill. Oyster-dish. No. 947,373; Jan. 25; Sp. p. 5272; Gaz. vol. 150; p. 886.
Coles, William A., assignor of one-half to U. A. Breting, Canton, Ohio. Drain-pipe-flushing attachment. No. 964,954; July 19; Sp. p. 4250; Gaz. vol. 156; p. 710.
Coley, Samuel L., Lees Summit, Mo. Barrel-tongs. No. 950,437; Feb. 22; Sp. p. 5600; Gaz. vol. 151; p. 982.
Colgan Gum Company. (See Brady, James H., assignor.)
Colgen, Nicholas, and O. P. Boysen, St. Charles, Minn. Two-row potato-planter. No. 957,412; May 10; Sp. p. 1972; Gaz. vol. 154; p. 341.
Colgrove, Albert R., Pasadena, Cal. Folding umbrella. No. 975,211; Nov. 8; Sp. p. 2580; Gaz. vol. 160; p. 416.
Colhower, Harry C., and J. T. Sainsbury, Hartford City, Ind. Engine-starting device. No. 959,997; May 31; Sp. p. 7743; Gaz. vol. 154; p. 1305.
Colignon, Eugène. (See Denis, Constant, assignor.)
Coll, Charles T., Pittsburg, Pa. Jar-closure. No. 963,517; July 5; Sp. p. 1116; Gaz. vol. 156; p. 169.
Collar, Adoniram J., Yreka, Cal. Water-gate valve. No. 954,930; Apr. 12; Sp. p. 2713; Gaz. vol. 153; p. 459.
Collar, Adoniram J., Yreka, Cal. Ditch-gate. No. 970,308; Sept. 13; Sp. p. 2494; Gaz. vol. 158; p. 420.
Collar, Adoniram J., Yreka, Cal. Fish-screen and sluice-box. No. 971,492; Sept. 27; Sp. p. 4939; Gaz. vol. 158; p. 865.
Collar, Adoniram J., Yreka, Cal. Flood and feed gate. No. 973,106; Oct. 18; Sp. p. 3513; Gaz. vol. 159; p. 607.
Collar, Adoniram J., Yreka, Cal. Ditch-gate. No. 973,172; Oct. 18; Sp. p. 3685; Gaz. vol. 159; p. 631.
Collar, Adoniram J., Yreka, Cal. Ditch-gate. No. 976,434; Nov. 22; Sp. p. 5215; Gaz. vol. 160; p. 885.
Collardon, Louis, Leipzig, Germany. Manufacture of plastic masses. No. 953,319; Mar. 29; Sp. p. 5885; Gaz. vol. 152; p. 1063.
Collé, Isidore, and S. Goldner, New York, N. Y. Locking and fastening device. No. 964,396; July 12; Sp. p. 2943; Gaz. vol. 156; p. 486.
Colleoni, Giuseppe, New York, N. Y. Automatic gun. No. 960,825; June 7; Sp. p. 1185; Gaz. vol. 155; p. 198.
Coller, Leonard C., Coldwater, Mich. Grip for fishing-rods. No. 965,989; Aug. 2; Sp. p. 308; Gaz. vol. 157; p. 51.
Collett, Emil, and M. Eckardt, Christiania, Norway. Dietetic chocolate and cocoa. No. 952,418; Mar. 15; Sp. p. 3935; Gaz. vol. 152; p. 704.
Collett, John C., assignor to The Fogelsong Machine Company, Dayton, Ohio. Horse-collar-stuffing machine. No. 964,463; July 12; Sp. p. 3082; Gaz. vol. 156; p. 506.
Collett, John C., and J. Rennie, assignors to The Foglesong Machine Company, Dayton, Ohio. Horse-collar-stuffing machine. No. 949,293; Feb. 15; Sp. p. 3170; Gaz. vol. 151; p. 558.
Collette, Clarence C., *et al.* (See Morrison, Augustus H., assignor.)
Colley, John I., South Bethlehem, Pa. Currency cutting or shearing machine. No. 949,462; Feb. 15; Sp. p. 3523; Gaz. vol. 151; p. 616.
Collicutt, Amon R., Alfred, Me. Buckle. No. 950,476; Mar. 1; Sp. p. 30; Gaz. vol. 152; p. 6.
Collier, Henry B., Prairie Grove, Ark. Conductor-strip. No. 976,154; Nov. 22; Sp. p. 4544; Gaz. vol. 160; p. 786.
Collier, Henry B., Prairie Grove, Ark. Automatic burglar-alarm. No. 978,269; Dec. 13; Sp. p. 1854; Gaz. vol. 161; p. 324.
Collier, Henry B., Prairie Grove, Ark. Circuit-closer. No. 978,849; Dec. 20; Sp. p. 3061; Gaz. vol. 161; p. 545.
Collier, Horace S., London, England. Invalid and like bed. No. 979,260; Dec. 20; Sp. p. 4019; Gaz. vol. 161; p. 691.
Collier, W. R., *et al.* (See Morris and Watkins, assignors.)
Colligan, John C., Corsicana, Tex. Hydrocarbon-burner. No. 945,695; Jan. 4; Sp. p. 1465; Gaz. vol. 150; p. 229.
Collin, George W., Bridgeport, Conn. Water-strainer. No. 948,311; Feb. 8; Sp. p. 1109; Gaz. vol. 151; p. 204.
Collin, George W., Bridgeport, Conn. Regulating-valve. No. 949,294; Feb. 15; Sp. p. 3172; Gaz. vol. 151; p. 559.
Collin, George W., Bridgeport, Conn. Automatic steam-cut-off valve. No. 972,338; Oct. 11; Sp. p. 1785; Gaz. vol. 159; p. 313.
Collins, Albert F., Minneapolis, Minn., assignor, by mesne assignments, to W. A. McLeod and A. F. Collins. Stocking-holder for use in darning. No. 960,508; June 7; Sp. p. 544; Gaz. vol. 155; p. 90.
Collins Axle and Manufacturing Company. (See Collins, Dennis P., assignor.)
Collins, Clay C., Whiting, Ind. Rail-joint. No. 977,514; Dec. 6; Sp. p. 210; Gaz. vol. 161; p. 32.
Collins, Dennis P., assignor to Collins Axle and Manufacturing Company, Pittsburg, Pa. Speed-changing and transmission gearing. No. 978,700; Dec. 13; Sp. p. 2771; Gaz. vol. 161; p. 473.
Collins, Edward W., Fort Dodge, Iowa. Wall-mold. No. 949,521; Feb. 15; Sp. p. 3646; Gaz. vol. 151; p. 635.
Collins, Fred L., and E. A. Hults, Chicago, Ill. Electric switch. No. 958,598; May 17; Sp. p. 4752; Gaz. vol. 154; p. 780.
Collins, George F. (See Overmyer, Charles G., assignor.)

Alphabetical list of patentees—Continued.

Collins, George J. S., Omaha, Nebr. Roller-bearing. No. 951,177; Mar. 8; Sp. p. 1445; Gaz. vol. 152; p. 261.
Collins, Henry G. and W. J., Williamsburg, Kans. Hay or manure loading machine. No. 947,964; Feb. 1; Sp. p. 392; Gaz. vol. 151; p. 62.
Collins, Henry L. (See Arbogast, John I., assignor.)
Collins, Horace B., Bloomington, Ind. Binder for magazines. No. 964,216; July 12; Sp. p. 2585; Gaz. vol. 156; p. 426.
Collins, Hugh. (See Collins, Joseph B., assignor.)
Collins, J. B., *et al.* (See Cleaver, Fremont J., Sr., assignor.)
Collins, James H., Chicago, Ill. Eyeglasses. No. 963,422; July 5; Sp. p. 923; Gaz. vol. 156; p. 137.
Collins, John, Washington, D. C. Fuse-block. No. 960,155; May 31; Sp. p. 8072; Gaz. vol. 154; p. 1357.
Collins, John A., Philadelphia, Pa. Damper-regulator. No. 969,939; Sept. 13; Sp. p. 1714; Gaz. vol. 158; p. 295.
Collins, John M., assignor of forty-five one-hundredths to H. Goebel, Chicago, Ill. Cap or cover. No. 967,000; Aug. 9; Sp. p. 2519; Gaz. vol. 157; p. 414.
Collins, Joseph B., assignor of one-half to H. Collins, San Jose, Cal. Dish. No. 980,066; Dec. 27; Sp. p. 5723; Gaz. vol. 161; p. 985.
Collins, Michael J., Detroit, Mich. Holder for sharpening gravers' or other tools. No. 975,329; Nov. 8; Sp. p. 2817; Gaz. vol. 160; p. 455.
Collins Plow Company. (See Brown, John W., assignor.)
Collins, Roy V., assignor to American Automatic Switch Company, New York, N. Y. Electromagnetic switch. No. 948,624; Feb. 8; Sp. p. 1794; Gaz. vol. 151; p. 308.
Collins, Thomas T. (See Sellers and Collins.)
Collins, Wilbur L., assignor to E. L. and J. W. Montague, J. K. Wright, Baldwinsville, L. N. Ostrander and A. D. Merry, Phoenix, N. Y. Dumping-wagon. No. 968,511; Aug. 23; Sp. p. 5689; Gaz. vol. 157; p. 979.
Collins, William F., London, England. Manufacture of fuel-briquets. No. 960,509; June 7; Sp. p. 546; Gaz. vol. 155; p. 90.
Collins, William J. (See Collins, Henry G. and W. J.)
Collins, William L., and P. D. and W. K. Sheppard, Cairo, W. Va. Swingletree. No. 950,438; Feb. 22; Sp. p. 5601; Gaz. vol. 151; p. 982.
Collins, William R., Georgetown, Colo. Tunneling-machine. No. 973,107; Oct. 18; Sp. p. 3515; Gaz. vol. 159; p. 607.
Collis, Alfred. London, England. Sheet-delivering apparatus. No. 973,259; Oct. 18; Sp. p. 3861; Gaz. vol. 159; p. 660.
Collis, John, Newark, N. J. Return check-valve. No. 956,944; May 3; Sp. p. 955; Gaz. vol. 154; p. 153.
Collis, John, Newark, N. J. Steam-heating system. No. 962,550; June 28; Sp. p. 4889; Gaz. vol. 155; p. 858.
Collmer Brothers. (See Collmer, Otto H., assignor.)
Collmer, Otto H., assignor to Collmer Brothers, South Bend, Ind. Tool for truing abrading-wheels. No. 970,992; Sept. 20; Sp. p. 3936; Gaz. vol. 158; p. 673.
Collner, Lewis C. (See Armor and Collner.)
Collom, Altamont B., L. E. McClintock, W. C. Stewart, and R. R. McCreight, Marissa, Ill. Paper-folding machine. No. 948,920; Feb. 8; Sp. p. 2395; Gaz. vol. 151; p. 408.
Collord, George L., Birmingham, Ala. Blast-furnace-charging apparatus. No. 967,328; Aug. 16; Sp. p. 3196; Gaz. vol. 157; p. 554.
Collord, George L., Birmingham, Ala. Blast-furnace-charging apparatus. No. 967,329; Aug. 16; Sp. p. 3198; Gaz. vol. 157; p. 554.
Colman, Howard D., *et al.* (See Peterson, Burt A., assignor.)
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Warp-handling apparatus. No. 955,383; Apr. 19; Sp. p. 3648; Gaz. vol. 153; p. 642.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Knotter. No. 955,384; Apr. 19; Sp. p. 3653; Gaz. vol. 153; p. 643.
Colman, Howard D., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Warp-handling apparatus. No. 962,400; June 21; Sp. p. 4521; Gaz. vol. 155; p. 780.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Means for clamping and stretching warp-threads. No. 963,871; July 12; Sp. p. 1896; Gaz. vol. 156; p. 311.
Colman, Howard D., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Thread-selecting device. No. 977,166; Nov. 29; Sp. p. 6837; Gaz. vol. 160; p. 1161.
Colomb, Charles A., Elgin, Ill. Game apparatus. No. 970,993; Sept. 20; Sp. p. 3938; Gaz. vol. 158; p. 673.
Colombo, Charles, Detroit, Mich. Clean-out fitting. No. 954,852; Apr. 12; Sp. p. 2533; Gaz. vol. 153; p. 432.
Colomé, José, Caracas, Venezuela. Plow. No. 945,696; Jan. 4; Sp. p. 1467; Gaz. vol. 150; p. 230.
Colona Manufacturing Company. (See Shrum, Peter J., assignor.)
Colonna, Mildred, St. Louis, Mo. Umbrella-receptacle for cars. No. 958,096; May 17; Sp. p. 3601; Gaz. vol. 154; p. 607.
Colorado Iron Works Co. (See Rothwell and Akins, assignors.)
Colorado Iron Works Company, The. (See Akins, Randall P., assignor.)
Colorado Iron Works Company. (See Rothwell, John E., assignor.)
Colorado Manufacturing and Construction Company. (See Baerresen and Schmidt, assignors.)
Colorado Pressed Steel Company, The. (See Lees, James R., assignor.)
Colorado Syrup Company, The. (See Vincent, Joseph, assignor.)
Colosimo, Antonio, New Britain, Conn. Lock. No. 979,825; Dec. 27; Sp. p. 5218; Gaz. vol. 161; p. 905.
Colquhoun, Kenneth M., Owatonna, Minn. Spark-arrester. No. 959,923; May 31; Sp. p. 7564; Gaz. vol. 154; p. 1278.
Colson, A. W. (See Deaton, Percy E., assignor.)
Colson, Edward C., Chicago, Ill. Steam-pipe-joint connection. No. 956,290; Apr. 26; Sp. p. 5657; Gaz. vol. 153; p. 985.
Colson, Edward E., Chicago, Ill. Rope-fastener. No. 965,369; July 26; Sp. p. 5118; Gaz. vol. 156; p. 878.
Colthar, William U. (See Pierce and Colthar.)
Colthar, William U., and F. A. Peifer, assignors, by mesne assignments, to The Star Tool Manufacturing Company, Springfield, Ohio. Composing-stick. No. 950,660; Mar. 1; Sp. p. 423; Gaz. vol. 152; p. 69.
Colton, Arthur, and B. W. Scott, assignors to Arthur Colton Co., Detroit, Mich. Machine for making capsules. No. 961,936; June 21; Sp. p. 3522; Gaz. vol. 155; p. 622.
Colton, Clayton M., Hartford, Conn. Display-form. No. 965,873; Aug. 2; Sp. p. 53; Gaz. vol. 157; p. 11.
Colton Combination Tool Company. (See Colton, Rosto E., assignor.)
Colton, Rosto E., Easthampton, Mass., assignor to Colton Combination Tool Company, Chester, Vt. Holder for machine-tools. No. 963,746; July 12; Sp. p. 1598; Gaz. vol. 156; p. 268.
Colucci, Giuseppe, Buffalo, N. Y. Bottle-stopper. No. 977,167; Nov. 29; Sp. p. 6840; Gaz. vol. 160; p. 1161.
Columbia Postal Supply Company. (See Ielfield, Fred C., assignor.)
Columbian Cotton Harvester Company (See Miles, Don D., assignor.)
Columbus Pharmacal Company, The. (See Odgers, Harry T., assignor.)
Columbus Truck and Supply Mfg. Co. (See Morton, Frank M., assignor.)
Colvin, Homer V., St. Louis, Mo. Non-refillable bottle. No. 966,084; Aug. 2; Sp. p. 512; Gaz. vol. 157; p. 83.
Colwell, John F. (See Barnes, James J., assignor.)
Colwell, Robert J., Braddock, Pa. Bench-clamp. No. 945,914; Jan. 11; Sp. p. 2026; Gaz. vol. 150; p. 337.
Coma, Clement. Paris, France. Screw-propeller. No. 966,654; Aug. 9; Sp. p. 1750; Gaz. vol. 157; p. 298.
Comas Cigarette Machine Company. (See Bilgram, Hugo, assignor.)
Combest, James, Peoria, Ill. Sewing-machine. No. 957,545; May 10; Sp. p. 2240; Gaz. vol. 154; p. 388.
Combustion Utilities Company. (See Mangelsdorff, Max F., assignor.)
Comeau, Moses P., and J. F. Walsh, Chicopee Falls, Mass. Hat-holder. No. 973,173; Oct. 18; Sp. p. 3688; Gaz. vol. 159; p. 632.
Comee, Frederick T. (See Wren and Comee.)
Comer, John J., Santa Monica, Cal., assignor to G. R. Webb, Baltimore, Md. Receiver for sound-transmitting instruments. No. 954,931; Apr. 12; Sp. p. 2717; Gaz. vol. 153; p. 459.
Comer, Will M., *et al.* (See Ballard, Cullum P., assignor.)
Comer, William T., Atlanta, Ga. Cotton-harvester. No. 948,846; Feb. 8; Sp. p. 2262; Gaz. vol. 151; p. 384.
Comes, Keros L., Danbury, Conn. Heating utensil. No. 958,227; May 17; Sp. p. 3863; Gaz. vol. 154; p. 652.
Comey, Robert H., assignor to R. H. Comey Company, Camden, N. J. Dyeing-machine. No. 972,822; Oct. 18; Sp. p. 2846; Gaz. vol. 159; p. 508.
Comfort, Edward W., Pensauken township, Camden county, N. J., assignor to Warren Webster & Company. Humidity-regulator. No. 977,933; Dec. 6; Sp. p. 1109; Gaz. vol. 161; p. 177.
Comfort, Walter R., New York, N. Y. Dredging apparatus. No. 948,722; Feb. 8; Sp. p. 2000; Gaz. vol. 151; p. 342.
Comfort, Walter R., New York, N. Y. Dredging apparatus. No. 959,115; May 24; Sp. p. 5857; Gaz. vol. 154; p. 982.
Comins, Frank B., Sharon, Mass. Humidifier. No. 952,234; Mar. 15; Sp. p. 3573; Gaz. vol. 152; p. 642.
Commercial Acetylene Company, The. (See McCune, Charles A., assignor.)
Commercial Aerial Navigation Co. (See Turnidge, Jesse A., assignor.)
Commercial Motor Car and Engine Co. (See Olson, Freeman M., assignor.)
Commercial Non-Refillable Bottle Stopper Co. (See Voss, William R., assignor.)
Commercial Products Company. (See Berend, Ludwig, assignor.)
Common, Cordelia L., Cleveland, Ohio. Fountain tonic-applicator. No. 946,837; Jan. 18; Sp. p. 4103; Gaz. vol. 150; p. 678.
Commonwealth Feed Mills Company. (See Gloor and Pascal, assignors.)

Commonwealth Steel Company. (See Schwartz, Carl L., assignor.)
Commonwealth Steel Company. (See Westlake and Frede, assignors.)
Compagnie des Forges & Acieries de la Marine et d'Honrecourt. (See Nolly, Hector de, assignor.)
Compagnie Generale Radio-Telegraphique Carpentier. (See Rochefort, Octave, assignor.)
Company Alexanderwerk A. vonder Nahmer Aktien-Gesellschaft. (See Otto, Friedrich A., assignor.)
Company Land and Seekabelwerke, Aktiengesellschaft. (See Bartels, Georg, assignor.)
Company Limited for Exploitation of Inventions by Stephan Benko. (See Benkö, Stephan, assignor.)
Compher, Edwin C., Leesburg, Va. Gate. No. 966,167; Aug. 2; Sp. p. 700; Gaz. vol. 157; p. 110.
Composite Fuel Syndicate Limited. (See Vivian, Davies, and Grote, assignors.)
Compressed Metal Company. (See Kitchen, Frederick T., assignor.)
Compression Spark Plug Company, The. (See Woods and Maimone, assignors.)
Comptograph Company. (See Niemann, Frederick A., assignor.)
Compton, Andrew J., Trenton, N. J. Putty-knife. No. 960,624; June 7; Sp. p. 793; Gaz. vol. 155; p. 129.
Compton, Andrew J., Trenton, N. J. Combined shovel and truck. No. 961,843; June 21; Sp. p. 3326; Gaz. vol. 155; p. 591.
Compton, Charles A., Washington, D. C. Hydraulic-power pipe system. No. 955,945; Apr. 26; Sp. p. 4884; Gaz. vol. 153; p. 864.
Compton, George B., St. Louis, Mo. Dummy advertising-package. No. 979,261; Dec. 20; Sp. p. 4021; Gaz. vol. 161; p. 691.
Compton, John, Atchison, Kans. Harness-hames. No. 954,499; Apr. 12; Sp. p. 1720; Gaz. vol. 153; p. 309.
Compton, John E., Red Lodge, Mont. Bird-cage. No. 963,995; July 12; Sp. p. 2152; Gaz. vol. 156; p. 352.
Compton, Lewis R., Summit, assignor, by mesne assignments, to Fabricated Steel Company, (trustee,) Newark, N. J. Wire-forming machine. No. 947,296; Jan. 25; Sp. p. 5079; Gaz. vol. 150; p. 859.
Compton, William H., Milwaukee, Wis. System of devices for excavating and loading gravel and the like. No. 967,613; Aug. 16; Sp. p. 3786; Gaz. vol. 157; p. 650.
Computing Scale Company, The. (See Hopkinson, Joseph, assignor.)
Computing Scale Company, The. (See Jones, Richard O., assignor.)
Comstock, Charles, West Stockbridge, Mass. Vacuum steam-engine. No. 979,435; Dec. 27; Sp. p. 4344; Gaz. vol. 161; p. 771.
Comstock, Chester, Ridgewood, N. J. Shaft-packing. No. 961,484; June 14; Sp. p. 2569; Gaz. vol. 155; p. 448.
Comstock, Chester, Ridgewood, N. J. Pump. No. 966,428; Aug. 9; Sp. p 1213; Gaz. vol. 157; p. 220.
Comstock, Clark S., East Orange, N. J. Buckle for use on suspenders. No. 965,370; July 26; Sp. p. 5119; Gaz. vol. 156; p. 878.
Comstock, Clark S., Sr., East Orange, N. J. Button-ring. No. 963,687; July 5; Sp. p. 1439; Gaz. vol. 156; p. 226.
Comstock, Henry W., Chicago, Ill. Salt and pepper holder. No. 972,339; Oct. 11; Sp. p. 1788; Gaz. vol. 159; p. 314.
Comstock, Horace A., assignor of one-half to S. M. Brundage, Indianapolis, Ind. Parlor base-ball game. No. 956,291; Apr. 26; Sp. p. 5658; Gaz. vol. 153; p. 985.
Comstock, Richard W., Jr., assignor to Rhode Island Perkins Horse Shoe Company, Providence, R. I. Machine for making horseshoe-calks. No. 956,292; Apr. 26; Sp. p 5660; Gaz. vol. 153; p. 985.
Conard, David W., Unionville, Ind. Shoe-tie. No. 972,062; Oct. 4; Sp. p. 1202; Gaz. vol. 159; p. 203.
Conaway, William B., and C. L. Stevens, Aurora, Ind. Photographic-printing apparatus. No. 945,697; Jan. 4; Sp. p. 1469; Gaz. vol. 150; p. 230.
Conboy, Patrick J., Auburn, N. Y. Adjustable die-holder. No. 970,888; Sept. 20; Sp. p. 3750; Gaz. vol. 158; p. 640.
Conboy, Philip J., and J. A. Murphy, Hamilton, Ohio. Jarring-machine. No. 950,893; Mar. 1; Sp. p. 904; Gaz. vol. 152; p. 145.
Concealed Door Check Company. (See Nordqvist, Per E., assignor.)
Conceição, Julio, Santos, Brazil. Apparatus for gathering coffee. No. 968,742; Aug. 30; Sp. p. 6215; Gaz. vol. 157; p. 1086.
Concrete Appliances Company. (See Callahan, Lee, assignor.)
Concrete Appliances Company. (See Emtman, Theodore, assignor.)
Concrete Appliances Company. (See Smith, Arthur L., assignor.)
Concrete Stone and Sand Company, The. (See Pauly, Albert A., assignor.)
Condé, Charles A., Philadelphia, assignor to Bond Foundry and Machine Company, Manheim, Pa. Sheet-metal shaft-hanger. No. 966,527; Aug. 9; Sp. p. 1491; Gaz. vol. 157; p. 256.
Conde, Frederic. (See Shufelt, James A., assignor.)
Condict, George H., Plainfield, N. J. Forging-machine. No. 950,594; Mar. 1; Sp. p. 270; Gaz. vol. 152; p. 44.
Condict, George H., Plainfield, N. J., assignor to W. Dulles, New York, N. Y. Power-drill. No. 962,077; June 21; Sp. p. 3833; Gaz. vol. 155; p. 672.
Condit, S. B., Jr. (See Burnham, George A., assignor.)
Condit, Sears B., Jr., Brookline, Mass. Double-throw motor-starting switch. No. 953,084; Mar. 29; Sp. p. 5385; Gaz. vol. 152; p. 987.
Condon, Benjamin J., Port Chester, N. Y. Scabbard. No. 969,524; Sept. 6; Sp. p. 795; Gaz. vol. 158; p. 125.
Condon, John R., Rockford, Ill. Measuring device. No. 954,782; Apr. 12; Sp. p. 2355; Gaz. vol. 153; p. 407.
Condon, John W., assignor to C. W. Ferguson Collar Company, Troy, N. Y. Flexible die for forming collar-blanks. No. 951,102; Mar. 8; Sp. p. 1300; Gaz. vol. 152; p. 238.
Condon, Thomas F., East Dorset, Vt. Mop-wringer. No. 974,236; Nov. 1; Sp. p. 345; Gaz. vol. 160; p. 49
Condrea, Constantin. (See Schildhaus, Gustav.)
Conduit Threading Device Company. (See Crawford, Frank, assignor.)
Cone, Enoch A., *et al.* (See Vaughn, Robert, assignor.)
Cone, Ezra G., assignor to Summit Thread Company, East Hampton, Conn. Bobbin-thread holder. No. 954,562; Apr. 12; Sp. p. 1849; Gaz. vol. 153; p. 331.
Cone, William S., Visalia, Cal. Insulator. No. 947,885; Feb. 1; Sp. p. 234; Gaz. vol. 151; p. 38.
Conekin, Dawson, Tampa, Fla. Rotary engine. No. 951,776; Mar. 8; Sp. p. 2662; Gaz. vol. 152; p. 460.
Conerly, J. M., *et al.* (See Harrison, Archer H., assignor.)
Conery, Arthur F., Jr., Newark, N. J. Soap article. No. 979,381; Dec. 20; Sp. p. 4231; Gaz. vol. 161; p. 729.
Coney, Glenn E., assignor to Metal Stamping Company, Jackson, Mich. Automobile-fender. No. 970,309; Sept. 13; Sp. p. 2496; Gaz. vol. 158; p. 420.
Confectioners and Bakers Supply Co. (See Dickson, George F., assignor.)
Confectioners' Machinery & Manufacturing Company, The. (See Kihlgren, David, assignor.)
Confectioners' Machinery & Manufacturing Company, The. (See Walker, Walter F., assignor.)
Conger, Hugh E., and C. W. Waller, Chicago, Ill. Meat-siding machine. No. 970,994; Sept. 20; Sp. p. 3939; Gaz. vol. 158; p. 673.
Conill, Enrique J., Paris, France. Rotary explosion-engine. No. 947,480; Jan. 25; Sp. p. 5541; Gaz. vol. 150; p. 921.
Conill, Enrique J., Paris, France. Rotary explosion-engine. No. 951,388; Mar. 8; Sp. p. 1886; Gaz. vol. 152; p. 329.
Conings, Rene, Pittsburg, Kans. Fuse-igniter. No. 970,889; Sept. 20; Sp. p. 3751; Gaz. vol. 158; p. 640.
Conklin, Charles M. (See Lunken and Conklin.)
Conklin, Edward D., assignor to The Whitehead & Hoag Company, Newark, N. J. Finger-key for type-writing and similar machines. No. 956,485; Apr. 26; Sp. p. 6076; Gaz. vol. 153; p. 1052.
Conklin, Robert. (See Van Winkle, Charles W., assignor.)
Conkling, Cloud C., Buffalo, assignor to Lackawanna Steel Company, New York, N. Y. Steel sheet-piling. No. 965,157; July 26; Sp. p. 4664; Gaz. vol. 156; p. 807.
Conkling, Cloud C., Buffalo, assignor to Lackawanna Steel Company, New York, N. Y. Composite piling. No. 969,343; Sept. 6; Sp. p. 402; Gaz. vol. 158; p. 65.
Conkling, Cloud C., and C. S. Boardman, Buffalo, N. Y. Metal sheet-piling. No. 968,450; Aug. 23; Sp. p. 5551; Gaz. vol. 157; p. 958.
Conkling Company. (See Snow, Frederick, assignor.)
Conkling, John P., New York, N. Y. Tunnel construction. No. 956,627; May 3; Sp. p. 257; Gaz. vol. 154; p. 43.
Conkling, Roscoe P., San Luis Potosi, Mexico. Gas-producer. No. 965,086; July 19; Sp. p. 4521; Gaz. vol. 156; p. 753.
Conley, Charles M., Cleveland, Ohio, assignor to The C. & L. Manufacturing Company. Show-case, show-window, and the like. No. 946,016; Jan. 11; Sp. p. 2239; Gaz. vol. 150; p. 372.
Conley, Charles M., Cleveland, Ohio, assignor to The C. & L. Manufacturing Company. Device for fastening together plates of glass. No. 946,959; Jan. 18; Sp. p. 4374; Gaz. vol. 150; p. 719.
Conley, Charles M., Cleveland, Ohio, assignor to The C. & L. Manufacturing Company. Show-window, show-case, and the like. No. 948,990; Feb. 15; Sp. p. 2550; Gaz. vol. 151; p. 459.
Conley, John E., Memphis, Tenn. Railway-frog. No. 960,156; May 31; Sp. p. 8073; Gaz. vol. 154; p. 1357.
Conley, John E., Memphis, Tenn. Switch-bar-adjusting device. No. 962,698; June 28; Sp. p. 5209; Gaz. vol. 155; p. 909.
Conley, Michael R., assignor to J. E. Florence, trustee, New York, N. Y. Charging melting-furnaces. No. 975,751; Nov. 15; Sp. p. 3711; Gaz. vol. 160; p. 626.
Conley, Thomas, Pittsburg, Pa. Distance-spacing device for freight-cars. No. 958,368; May 17; Sp. p. 4302; Gaz. vol. 154; p. 702.
Conlon, Bartholomew J. (See Winter and Conlon.)
Conn, Charles A. (See Holt, Harris B., assignor.)
Conn, Joseph C., Boonton, N. J., assignor to J. B. Stone Company, Grand Rapids, Mich. Mount for belt-hooks. No. 948,574; Feb. 8; Sp. p. 1675; Gaz. vol. 151; p. 292.

Alphabetical list of patentees—Continued.

Connarn, Frederick, Dummerston, Vt. Lantern-holder. No. 967,106; Aug. 9; Sp. p. 2748; Gaz. vol. 157; p. 451.
Connaty, James W., assignor to C. P. McDougall, Indianapolis, Ind. Furniture-clamp. No. 946,423; Jan. 11; Sp. p. 3192; Gaz. vol. 150; p. 513.
Conneaut Company, The. (See Hine, William C., assignor.)
Connecticut Hook and Eye Company, The. (See Courtland, William A., assignor.)
Connecticut Motor Vehicle Company. (See Morse, Arthur J., assignor.)
Connecticut Telephone & Electric Company, The. (See Bright, Evan D., assignor.)
Connecticut Telephone & Electric Company, The. (See Cuno, Charles, assignor.)
Connecticut Telephone & Electric Company, The. (See Lawton, Burton L., assignor.)
Connell, John H., Charleston, W. Va. Water-meter. No. 955,766; Apr. 19; Sp. p. 4480; Gaz. vol. 153; p. 773.
Connell, Joseph J., Ottumwa, Iowa. Dredging apparatus. No. 963,034; July 5; Sp. p. 13; Gaz. vol. 156; p. 4.
Connell, Lawrence, Jr., Portland, Oreg. Electromagnet. No. 945,018; Jan. 4; Sp. p. 15; Gaz. vol. 150; p. 6.
Connell, Roger, Westport, New Zealand. Means for automatically inflating pneumatic tires. No. 961,104; June 14; Sp. p. 1749; Gaz. vol. 155; p. 318.
Connell, Terrence, Haverford, Pa. Rock-drilling bit. No. 973,407; Oct. 18; Sp. p. 4181; Gaz. vol. 159; p. 712.
Connell, William B., Chicago, Ill. Tire. No. 958,693; May 17; Sp. p. 4934; Gaz. vol. 154; p. 810.
Connell, William F., New York, N. Y. Instep-support. No. 979,930; Dec. 27; Sp. p. 5439; Gaz. vol. 161; p. 939.
Connell, William H., Pittsburg, Pa. Casting ingots. No. 945,019; Jan. 4; Sp. p. 19; Gaz. vol. 150; p. 6.
Connell, William H., Pittsburg, Pa. Casting ingots. No. 971,832; Oct. 4; Sp. p. 670; Gaz. vol. 159; p. 118.
Connell, William H., Pittsburg, Pa. Ingot-mold. No. 975,511; Nov. 15; Sp. p. 3199; Gaz. vol. 160; p. 544.
Connelly, Albert C., assignor of one-half to O. B. Connelly, Boyd, Oreg. Rail-fastener. No. 966,168; Aug. 2; Sp. p. 701; Gaz. vol. 157; p. 111.
Connelly, Anna D. (See Thompson-Meares, Mary, assignor.)
Connelly, Anna M., administratrix. (See Bohland and Connelly.)
Connelly, Joseph J. (See Bohland and Connelly.)
Connelly, Michael E., Cumberland, Md. Toilet. No. 968,541; Aug. 30; Sp. p. 5767; Gaz. vol. 157; p. 1015.
Connelly, Orson B. (See Connelly, Albert C., assignor.)
Connelly, Patrick F., El Reno, Okla. Adjustable tool. No. 980,067; Dec. 27; Sp. p. 5724; Gaz. vol. 161; p. 985.
Connelly, William M., Chicago, Ill., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Controller for electric motors. No. 955,137; Apr. 19; Sp. p. 3112; Gaz. vol. 153; p. 558.
Conner, Freas H., Horton, Kans. Lamp-extinguishing burner. No. 955,138; Apr. 19; Sp. p. 3114; Gaz. vol. 153; p. 559.
Conner, George F., Port Huron, Mich., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 970,183; Sept. 13; Sp. p. 2220; Gaz. vol. 158; p. 377.
Conner, George F., Port Huron, Mich., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 972,437; Oct. 11; Sp. p. 1989; Gaz. vol. 159; p. 349.
Conner, Harry C., and C. Burns, Burnside, Pa. Potato-eye cutter. No. 967,882; Aug. 23; Sp. p. 4328; Gaz. vol. 157; p. 763.
Conner, Herschel M., Chicago, Ill., assignor of one-half to W. A. Burney, Jr., Savannah, Ga. Vapor-burner. No. 945,305; Jan. 4; Sp. p. 652; Gaz. vol. 150; p. 102.
Conner, John W., *et al.* (See Webster, Hyleman A., assignor.)
Conner, Merritt S., Oakdene, Hale, England, assignor to Stromberg-Carlson Telephone Mfg. Company, Rochester, N. Y. Telephone system. No. 955,633; Apr. 19; Sp. p. 4183; Gaz. vol. 153; p. 728.
Conners, James, administrator. (See O'Neill and Voorhees.)
Connersville Blower Co., The. (See Wilkin, John T., assignor.)
Connery, William H., Chattanooga, Tenn. Baby-hammock. No. 954,421; Apr. 12; Sp. p. 1534; Gaz. vol. 153; p. 282.
Connet, Frederick N., Providence, R. I. Rate-indicating device for fluids. No. 960,275; June 7; Sp. p. 70; Gaz. vol. 155; p. 15.
Connet, Frederick N., Providence, R. I. Indicating, integrating, and recording manometer. No. 962,317; June 21; Sp. p. 4364; Gaz. vol. 155; p. 753.
Connies, Samuel J., assignor of one-third to W. M. Fitzgerald. Brooklyn, N. Y. Combined book rest and marker. No. 953,409; Mar. 29; Sp. p. 6099; Gaz. vol. 152; p. 1095.
Conniff, Philip, and Y. Burgess, Washington, D. C.; said Burgess assignor to C. H. Carson, Kansas City, Mo. Brake-applying mechanism. No. 956,293; Apr. 26; Sp. p. 5661; Gaz. vol. 153; p. 986.
Connolly, Joseph A., Everett, Mass. Brooder. No. 973,174; Oct. 18; Sp. p. 3689; Gaz. vol. 159; p. 632.
Connor, Alexander, Montezuma, Ind. Boiler-flue cleaner. No. 969,461; Sept. 6; Sp. p. 641; Gaz. vol. 158; p. 103.
Connor, James E., Gillespie, Ill. Irrigation-tile. No. 977,435; Dec. 6; Sp. p. 16; Gaz. vol. 161; p. 6.
Connor, William T., and C. Hess, assignors to Steefel, Strauss & Connor, Rochester, N. Y. Garment. No. 963,279; July 5; Sp. p. 645; Gaz. vol. 156; p. 90.
Connors, Kathryn, Sioux Falls, S. D. Umbrella. No. 962,318; June 21; Sp. p. 4367; Gaz. vol. 155; p. 753.
Connors, Patrick J., and G. Kitch, Greenville, Pa. Valve or cock. No. 952,605; Mar. 22; Sp. p. 4366; Gaz. vol. 152; p. 797.
Conoly, Angus J. (See Bailey, Fess, assignor.)
Conrad, Benjamin B., New York, assignor to American Numbering Machine Company, Brooklyn, N. Y. Numbering-machine. No. 953,819; Apr. 5; Sp. p. 278; Gaz. vol. 153; p. 49.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Armature-winding. No. 954,614; Apr. 12; Sp. p. 1961; Gaz. vol. 153; p. 348.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mercury-vapor rectifier. No. 969,525; Sept. 6; Sp. p. 796; Gaz. vol. 158; p. 125.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting means for vapor-rectifying devices. No. 975,399; Nov. 15; Sp. p. 2971; Gaz. vol. 160; p. 504.
Conrad, Henry G., assignor to Amberg File & Index Co., Chicago, Ill. Interlocking sectional structure. No. 946,111; Jan. 11; Sp. p. 2423; Gaz. vol. 150; p. 403.
Conrad, Paul, assignor to C. P. Monash, Chicago, Ill. Mechanism for sealing bottles. No. 963,210; July 5; Sp. p. 474; Gaz. vol. 156; p. 65.
Conrad, Paul, assignor to C. P. Monash, Chicago, Ill. Machine for sealing bottles. No. 967,614; Aug. 16; Sp. p. 3788; Gaz. vol. 157; p. 651.
Conrad, Richard D., assignor to R. W. Mueller, Pittsburg, Pa. Oil brazing-burner. No. 955,946; Apr. 26; Sp. p. 4886; Gaz. vol. 153; p. 864.
Conrader, Rudolph, Erie, Pa. Relief device. No. 962,551; June 28; Sp. p. 4900; Gaz. vol. 155; p. 859.
Conrader, Rudolph, Erie, Pa. Valve. No. 966,797; Aug. 9; Sp. p. 2093; Gaz. vol. 157; p. 347.
Conrader, Rudolph, Erie, Pa. Apparatus for actuating liquids. No. 969,940; Sept. 13; Sp. p. 1716; Gaz. vol. 158; p. 295.
Conrader, Rudolph, Erie, Pa. Apparatus for actuating liquids. No. 979,746; Dec. 27; Sp. p. 5031; Gaz. vol. 161; p. 878.
Conradson, Conrad M., Madison, Wis., assignor to Preassignments, to Precision Glass Grinding Machine Company, Sioux Falls, S. D. Ground neck of bottles and the like for use with correspondingly-ground stoppers. No. 953,123; Mar. 29; Sp. p. 5481; Gaz. vol. 152; p. 1000.
Conradson, Conrad M., Madison, Wis., assignor to Precision Glass Grinding Machine Company, Sioux Falls, S. D. Ground stopper for use with correspondingly-ground bottle-necks, &c. No. 953,124; Mar. 29; Sp. p. 5482; Gaz. vol. 152; p. 1000.
Conradson, Conrad M., Madison, Wis., assignor to V. E. Prentice, New York, N. Y. Grinding-machine feeding mechanism. No. 957,935; May 17; Sp. p. 3057; Gaz. vol. 154; p. 549.
Conradson, Conrad M., Madison, Wis., assignor to V. E. Prentice, New York, N. Y. Grinding-machine feeding mechanism. No. 957,936; May 17; Sp. p. 3062; Gaz. vol. 154; p. 550.
Conradt, Albert V., assignor to Great Western Pottery Company, Kokomo, Ind. Support for washstands. No. 951,597; Mar. 8; Sp. p. 2297; Gaz. vol. 152; p. 399.
Conrard, Charles A., Washington, D. C. Portable folding commode or seat. No. 945,119; Jan. 4; Sp. p. 229; Gaz. vol. 150; p. 39.
Conrath, Frederick, St. Paul, Minn. Oil-stove. No. 954,422; Apr. 12; Sp. p. 1535; Gaz. vol. 153; p. 282.
Conroe, Charles A. and R., Newark, N. J. Hat-fastener. No. 972,438; Oct. 11; Sp. p. 1991; Gaz. vol. 159; p. 349.
Conroe, Ray. (See Conroe, Charles A. and R.)
Conrow, George W., New York, N. Y. Safety-razor. No. 967,501; Aug. 16; Sp. p. 3574; Gaz. vol. 157; p. 613.
Conrow, Henry S., Wichita, Kans. Store-front and show-case construction. No. 958,228; May 17; Sp. p. 3864; Gaz. vol. 154; p. 653.
Conroy, Eliza D., assignor of one-half to R. G. Wendland, Waco, Tex. Refrigerator. No. 964,900; July 19; Sp. p. 4152; Gaz. vol. 156; p. 692.
Conroy, Shelton R., assignor of one-half to C. H. Sunniville, Gary, Ind. Rail-joint. No. 969,132; Aug. 30; Sp. p. 7007; Gaz. vol. 157; p. 1218.
Consentino, Thomas, assignor of one-half to C. J. Suhm and one-fourth to J. P. De Phillippi, Houston, Tex. Firearm. No. 947,481; Jan. 25; Sp. p. 5543; Gaz. vol. 150; p. 921.
Consoli, Frank, Brooklyn, N. Y. Finger-board for musical instruments. No. 973,719; Oct. 25; Sp. p. 4847; Gaz. vol. 159; p. 843.
Consolidated Car Fender Company. (See Thornley, Albert J., assignor.)

Consolidated Car Heating Company. (See McElroy, James F., assignor.)
Consolidated Car Heating Company. (See McElroy and Macomber, assignors.)
Consolidated Fire Alarm Company. (See Dean, William W., assignor.)
Consolidated Fruit Jar Company, The. (See Booth, Thomas C., assignor.)
Consolidated Hospital Supply and Laundry Machinery Company. (See Raymond, Franklin M., assignor.)
Consolidated Railway Electric Lighting and Equipment Company. (See Kennedy, Patrick, assignor.)
Consolidated Railway Industrial Straw Paper Company. (See Podmore, John E., assignor.)
Consolidated Safety Pin Company. (See Church, Herbert B., assignor.)
Consortium für Elektrochemische Industrie, Gesellschaft mit beschränkter Haftung. (See Mugdan and Herrmann, assignors.)
Constantin, Angely, Hanover, Germany. Protecting-cover for pneumatic tires. No. 957,413; May 10; Sp. p. 1973; Gaz. vol. 154; p. 342.
Constantine, John H., and B. V. Tucker, Rumford, Me. Belt-fastener. No. 977,168; Nov. 29; Sp. p. 6844; Gaz. vol. 160; p. 1162.
Conta, Frank, Dacono, Colo. Bicycle-lock. No. 947,073; Jan. 18; Sp. p. 4586; Gaz. vol. 150; p. 757.
Conte, Domenic. (See MacDonald, Frederick L., assignor.)
Conti, James T. F., Paris, France. Weighing-machine. No. 950,528; Mar. 1; Sp. p. 144; Gaz. vol. 152; p. 23.
Continental Can Co. (See Coyle, John, assignor.)
Continental Can Company. (See Abrams, Jesse E., assignor.)
Continental Can Company. (See Robinson, Daniel P., assignor.)
Continental Caoutchouc- & Gutta-Percha Campagnie. (See Kindscherf, Carl, assignor.)
Continental Engineering Company. (See Bennett, Erastus S., assignor.)
Continental Gin Company. (See Gammons, Ferdinand C., assignor.)
Continental Gin Company. (See Wilson, Ralph E., assignor.)
Continental Investment Company. (See Hartenstein, Herman L., assignor.)
Continental Machine Company. (See Krummel and Taliaferro, assignors.)
Continental Manufacturing Company, The. (See Dun Lany, William P., assignor.)
Continental Paper Bag Company. (See Gilfillan, Essington N., assignor.)
Continental Paper Bag Company. (See Gilfillan and Schinscholl, assignors.)
Continental Paper Bag Company. (See Strasburg, Frederick E., assignor.)
Continuous Glass Press Company, The. (See Shuman, Arno, assignor.)
Continuous Glass Press Company, The. (See Shuman, Frank, assignor.)
Continuous Process Coke Company. (See Summers, Leland L., assignor.)
Continuous Rail & Safety Switch Co. (See Roach, Harry F., assignor.)
Continuous Zinc Furnace Company, The. (See Johnson, Woolsey M., assignor.)
Converse, William E., assignor of one-fourth to J. R. Campbell, Franktown, Colo. Stubble-burner. No. 960,826; June 7; Sp. p. 1192; Gaz. vol. 155; p. 198.
Convis, Vernon B., Toronto, Ontario, Canada. Steam-trap. No. 978,701; Dec. 13; Sp. p. 2774; Gaz. vol. 161; p. 473.
Conway, Elisha A., Parkesburg, Pa. Razor-sharpening machine. No. 948,369; Feb. 8; Sp. p. 1230; Gaz. vol. 151; p. 224.
Conway, Frederick, Buffalo, N. Y. Buckle and strap loop. No. 970,184; Sept. 13; Sp. p. 2222; Gaz. vol. 158; p. 378.
Conway, James P., and G. Hoffman, Arnold City, Pa. Hanger for electric conductors. No. 960,827; June 7; Sp. p. 1194; Gaz. vol. 155; p. 198.
Conway, James W., *et al.* (See Love, John T., assignor.)
Conway, Mary W., Cincinnati, Ohio. Casing and guide for window-shades, &c. No. 965,441; July 26; Sp. p. 5272; Gaz. vol. 156; p. 903.
Conway, Richard H., and H. E. Bisbing, Philadephia, Pa. Fused terminal. No. 959,719; May 31; Sp. p. 7111; Gaz. vol. 154; p. 1207.
Conway, Richard H., and H. E. Bisbing, assignors of one-fourth to L. K. Marr, Philadelphia, Pa. Rail-joint. No. 947,173; Jan. 18; Sp. p. 4771; Gaz. vol. 150; p. 787.
Conway, William T., Pittsburg, Pa. Sole for shoes. No. 945,698; Jan. 4; Sp. p. 1471; Gaz. vol. 150; p. 231.
Conzelman, John E., St. Louis, Mo. Concrete construction. No. 947,769; Jan. 25; Sp. p. 6105; Gaz. vol. 150; p. 1018.
Conzelman, John E., St. Louis, Mo., assignor, by mesne assignments, to Unit Construction Company. Concrete construction. No. 961,210; June 14; Sp. p. 1968; Gaz. vol. 155; p. 355.
Conzelman, John E., St. Louis, Mo., assignor, by mesne assignments, to Unit Construction Company. Concrete construction. No. 961,211; June 14; Sp. p. 1969; Gaz. vol. 155; p. 356.
Conzelman, John E., St. Louis, Mo., assignor, by mesne assignments, to Unit Construction Company. Concrete construction. No. 961,682; June 14; Sp. p. 2975; Gaz. vol. 155; p. 515.
Conzelman, John E., St. Louis, Mo., assignor, by mesne assignments, to Unit Construction Company. Concrete construction. No. 961,683; June 14; Sp. p. 2976; Gaz. vol. 155; p. 515.
Conzelman, John E., St. Louis, Mo., assignor, by mesne assignments, to Unit Construction Company. Concrete construction. No. 962,078; June 21; Sp. p. 3834; Gaz. vol. 155; p. 672.
Conzelman, John E., St. Louis, Mo., assignor, by mesne assignments, to Unit Construction Company. Concrete construction. No. 962,699; June 28; Sp. p. 5210; Gaz. vol. 155; p. 909.
Conzelman, John E., St. Louis, Mo., assignor to Unit Construction Company, Wilmington, Del. Concrete construction. No. 971,665; Oct. 4; Sp. p. 319; Gaz. vol. 159; p. 57.
Coo, Thomas J., Toronto, Ontario, Canada, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 949,463; Feb. 15; Sp. p. 3526; Gaz. vol. 151; p. 616.
Coo, Thomas J., Toronto, Ontario, Canada, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 973,342; Oct. 18; Sp. p. 4034; Gaz. vol. 159; p. 690.
Coo, Thomas J., Toronto, Ontario, Canada, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 973,628; Oct. 25; Sp. p. 4654; Gaz. vol. 159; p. 809.
Coo, Thomas J., Toronto, Ontario, Canada, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 974,237; Nov. 1; Sp. p. 346; Gaz. vol. 160; p. 50.
Coogan, Edward D., Ratcliff, Ark. Grapple. No. 972,340; Oct. 11; Sp. p. 1789; Gaz. vol. 159; p. 314.
Cook, Albert B., Philadelphia, and J. M. Miller, Newtown Square, Pa. Pole-base. No. 967,107; Aug. 9; Sp. p. 2750; Gaz. vol. 157; p. 451.
Cook, Carl M., Denver, Colo. Night-lock. No. 959,312; May 24; Sp. p. 6256; Gaz. vol. 154; p. 1047.
Cook, Carroll E., New London, Iowa. Shooting-glass. No. 946,596; Jan. 18; Sp. p. 3540; Gaz. vol. 150; p. 596.
Cook, Edgar H., Great Neck, N. Y. Coin-controlled vending-machine. No. 945,699; Jan. 4; Sp. p. 1472; Gaz. vol. 150; p. 231.
Cook, Edward C., St. Johnsville, N. Y. Automatic cleaner for latch knitting-machines. No. 954,932; Apr. 12; Sp. p. 2718; Gaz. vol. 153; p. 460.
Cook, Egbert C., Lakewood, N. Mex. Siphon. No. 962,624; June 28; Sp. p. 5052; Gaz. vol. 155; p. 883.
Cook, Eugene. (See Hargie, Thomas, assignor.)
Cook, Frank A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 950,998; Mar. 1; Sp. p. 1107; Gaz. vol. 152; p. 179.
Cook, Frank A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 952,235; Mar. 15; Sp. p. 3574; Gaz. vol. 152; p. 642.
Cook, Frank A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 953,898; Apr. 5; Sp. p. 424; Gaz. vol. 153; p. 77.
Cook, Frank B. (See Kaisling, William, assignor.)
Cook, Frank B. (See Nolen, James G., assignor.)
Cook, Frank B., Chicago, Ill. Bracket. No. 962,494; June 28; Sp. p. 4766; Gaz. vol. 155; p. 839.
Cook, Frank B., Chicago, Ill. Electrical protective apparatus. No. 966,655; Aug. 9; Sp. p. 1751; Gaz. vol. 157; p. 299.
Cook, Frederick D., Blairsville, Pa. Roofing. No. 957,937; May 17; Sp. p. 3067; Gaz. vol. 154; p. 550.
Cook, George E., assignor of one-half to P. Schlosser, New York, N. Y. Carbureter. No. 958,476; May 17; Sp. p. 4518; Gaz. vol. 154; p. 740.
Cook, Gustave. (See Elliott and Cook.)
Cook, Henry E., and E. P. Bullock, Bozeman, Mont. Mouthpiece for musical instruments. No. 972,823; Oct. 18; Sp. p. 2848; Gaz. vol. 159; p. 508.
Cook, Henry W., Syracuse, N. Y. Heel for boots and shoes. No. 976,552; Nov. 22; Sp. p. 5473; Gaz. vol. 160; p. 924.
Cook, Herbert F. (See Hildreth and Cook.)
Cook, Herbert F., Colorado Springs, Colo. Window-shade and lace-curtain support. No. 978,114; Dec. 6; Sp. p. 1492; Gaz. vol. 161; p. 240.
Cook, Irving A., Lancaster, Ohio. Shoe-last. No. 965,565; July 26; Sp. p. 5568; Gaz. vol. 156; p. 947.
Cook, J., *et al.* (See Phillips, Cornelius R., assignor.)
Cook, James L., Springfield, Ill. Miner's drill. No. 945,446; Jan. 4; Sp. p. 943; Gaz. vol. 150; p. 148.
Cook, John W., Eastleigh, Didsbury, England. Lappet for spinning and twisting frames. No. 959,465; May 31; Sp. p. 6580; Gaz. vol. 154; p. 1123.
Cook, Joseph H., East St. Louis, Ill. Photograph-printing machine. No. 950,661; Mar. 1; Sp. p. 426; Gaz. vol. 152; p. 69.

Alphabetical list of patentees—Continued.

Cook, Lillian M., Ligonier, Ind. Piano. No. 962,748; June 28; Sp. p. 5307; Gaz vol. 155; p. 927.
Cook, Miller, Jr., Whitman, assignor to Boston Machine Works Company, Lynn, Mass. Sole cutting and marking machine. No. 957,598; May 10; Sp. p. 2328; Gaz. vol. 154; p. 405.
Cook, Percy W., Lidcup, England. Reinforced concrete construction. No. 949,262; Feb. 15; Sp. p. 3108; Gaz. vol. 151; p. 548.
Cook Railway Signal Company, The. (See Cook, William J., assignor.)
Cook, Richard H., Fall River, Mass. Thread or yarn clearing device. No. 945,447; Jan. 4; Sp. p. 945; Gaz. vol. 150; p. 148.
Cook, Robert H. (See Morin and Reed, assignors.)
Cook, Thomas R., Fort Wayne, Ind. Water-gage for boilers. No. 945,756; Jan. 11; Sp. p. 1664; Gaz. vol. 150; p. 279.
Cook, Thomas R., Fort Wayne, Ind. Power mechanism. No. 970,609; Sept. 20; Sp. p. 3119; Gaz. vol. 158; p. 543.
Cook, Thomas R., Marion, Ind. Mail-transferring apparatus. No. 975,212; Nov. 8; Sp. p. 2582; Gaz. vol. 160; p. 416.
Cook, Walter B., Medicine Hat, Alberta, Canada. Vehicle-spring fastener. No. 977,934; Dec. 6; Sp. p. 1113; Gaz. vol. 161; p. 178.
Cook, Willard J., Des Moines, Iowa. Manure-spreader. No. 947,374; Jan. 25; Sp. p. 5273; Gaz. vol. 150; p. 887.
Cook, William, Phillipsburg, N. J. Ratchet-wrench. No. 949,522; Feb. 15; Sp. p. 3650; Gaz. vol. 151; p. 635.
Cook, William A., New York, N. Y. Air-pump. No. 977,274; Nov. 29; Sp. p. 7045; Gaz. vol. 160; p. 1198.
Cook, William A., South Bend, Ind. Loader for cement-mixers. No. 978,136; Dec. 13; Sp. p. 1565; Gaz. vol. 161; p. 278.
Cook, William A., and J. Dushane, South Bend, Ind. Cement-mixer. No. 952,606; Mar. 22; Sp. p. 4367; Gaz. vol. 152; p. 797.
Cook, William H., Sturgis, Mich. Burglar-alarm. No. 970,468; Sept. 20; Sp. p. 2827; Gaz. vol. 158; p. 494.
Cook, William J., assignor to The Cook Railway Signal Company, Denver, Colo. Electric signaling apparatus for railways. No. 946,202; Jan. 11; Sp. p. 2621; Gaz. vol. 150; p. 435.
Cook, William L., Anderson, Ind. Packing-box. No. 946,017; Jan. 11; Sp. p. 2240; Gaz. vol. 150; p. 372.
Cooke, Anna C., Toledo, Ohio. Safety-envelop. No. 966,383; Aug. 2; Sp. p. 1113; Gaz. vol. 157; p. 180.
Cooke, Dwight I., assignor to Vacuum Car Ventilating Company, Chicago, Ill. Air-duct. No. 963,518; July 5; Sp. p. 1117; Gaz. vol. 156; p. 170.
Cooke, Frank L., New York, N. Y., assignor to Pittsburg Fire Extinguisher Company. Chemical fire-extinguisher. No. 973,857; Oct. 25; Sp. p. 5123; Gaz. vol. 159; p. 890.
Cooke, Frank W., assignor to The Pope Manufacturing Company, Hartford, Conn. Machine for grinding valve-cage seats. No. 950,565; Mar. 1; Sp. p. 219; Gaz. vol. 152; p. 36.
Cooke, Henry V. P., St. Louis, Mo. Lock. No. 953,777; Apr. 5; Sp. p. 186; Gaz. vol. 153; p. 34.
Cooke, John G., Chloride, Ariz. Motor-cooling system. No. 980,068; Dec. 27; Sp. p. 5725; Gaz. vol. 161; p. 985.
Cooke, Samuel R. (See Hartman and Cooke.)
Cooke, Warner B., Jenkintown, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Rail-anchor. No. 964,397; July 12; Sp. p. 2944; Gaz. vol. 156; p. 487.
Cooke, William A. (See Palmer, John C., assignor.)
Cookerette Company. (See Hallock, Arthur T., assignor.)
Cookingham, Peter P., assignor of one-third to J. H. Frederick, Longbeach, Cal. Differential car-axle. No. 945,915; Jan. 11; Sp. p. 2028; Gaz. vol. 150; p. 337.
Cookingham, Peter P., assignor of one-third to W. R. Bruner, Longbeach, Cal. Noiseless car-wheel. No. 970,185; Sept. 13; Sp. p. 2223; Gaz. vol. 158; p. 378.
Cooksey, Mansfield, Baltimore, Md. Propeller. No. 958,599; May 17; Sp. p. 4757; Gaz. vol. 154; p. 781.
Cookson, Thomas J., Cincinnati, Ohio. Feed-water heater and purifier. No. 972,824; Oct. 18; Sp. p. 2849; Gaz. vol. 159; p. 509.
Cool, Roy D. (See Prickett, Clinton E., assignor.)
Cooley, Byron H., Campbellsport, Wis. Sign. No. 965,566; July 26; Sp. p. 5570; Gaz. vol. 156; p. 948.
Cooley, Frederick D. (See Milligan and Cooley.)
Cooley, Robert L., Milwaukee, Wis. Manual-training bench. No. 946,960; Jan. 18; Sp. p. 4376; Gaz. vol. 150; p. 719.
Cooley, William H., Brockport, N. Y., assignor, by mesne assignments, to Steel Fireproofing Company, Wheeling, W. Va. Machine for corrugating sheet metal. No. 951,630; Mar. 8; Sp. p. 2368; Gaz. vol. 152; p. 410.
Coolidge, Charles A., Portland, Oreg. Track instrument. No. 973,478; Oct. 25; Sp. p. 4331; Gaz. vol. 159; p. 759.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Lamp-filament. No. 963,872; July 12; Sp. p. 1898; Gaz. vol. 156; p. 312.
Coomber, James J. (See Rowley and Coomber.)
Coombs, Frank E., Natick, Mass. Defecation of saccharine liquids. No. 958,907; May 24; Sp. p. 5446; Gaz. vol. 154; p. 912.
Coon, Albert A., Hutsonville, Ill. Wagon-jack. No. 951,057; Mar. 1; Sp. p. 1200; Gaz. vol. 152; p. 197.
Coon, Charles B., Evanston, Ill. Journal-box-lubricating device. No. 946,495; Jan. 11; Sp. p. 3345; Gaz. vol. 150; p. 537.
Coon, Charles H., assignor of one-third to The American Novelty Paper Co., Saugerties, N. Y. Automatic adjustable reel. No. 948,207; Feb. 1; Sp. p. 875; Gaz. vol. 151; p. 143.
Cooney, Sebern A., assignor of one-half to John A. Roebling's Sons Co., Trenton, N. J. Curve for double-rope tramways. No. 972,509; Oct. 11; Sp. p. 2155; Gaz. vol. 159; p. 374.
Cooney, Sebern A., assignor of one-half to John A. Roebling's Sons Co., Trenton, N. J. Cableway-carriage. No. 972,825; Oct. 18; Sp. p. 2851; Gaz. vol. 159; p. 509.
Cooney, Sebern A., assignor of one-half to John A. Roebling's Sons Co., Trenton, N. J. Conveyer-bucket. No. 979,653; Dec. 27; Sp. p. 4830; Gaz. vol. 161; p. 847.
Coonradt, Lester I., Oakland, Cal. Sprinkler. No. 979,382; Dec. 20; Sp. p. 4234; Gaz. vol. 161; p. 730.
Coons, Charles A., Buffalo, N. Y. Passenger-car. No. 969,602; Sept. 6; Sp. p. 971; Gaz. vol. 158; p. 154.
Cooper, Andrew B., Okoee, Okla. Trammel. No. 969,156; Sept. 6; Sp. p. 11; Gaz. vol. 158; p. 5.
Cooper, Augustus S., Los Olivos, Cal. Cementing wells. No. 978,359; Dec. 13; Sp. p. 2036; Gaz. vol. 161; p. 355.
Cooper, Benson P., Ithaca, N. Y. Vehicle-wheel. No. 946,112; Jan. 11; Sp. p. 2426; Gaz. vol. 150; p. 404.
Cooper, Bertram G., Surbiton, England. Propeller for operating on fluids. No. 977,068; Nov. 29; Sp. p. 6608; Gaz. vol. 160; p. 1126.
Cooper, Charles F., Detroit, Mich. Fish-hook. No. 973,479; Oct. 25; Sp. p. 4332; Gaz. vol. 159; p. 759.
Cooper, Clay C., Smith Mills, Ky. Collapsible wagon-hood. No. 951,089; Mar. 1; Sp. p. 1267; Gaz. vol. 152; p. 208.
Cooper, Daniel M. (See Hagen and Cooper.)
Cooper, Daniel M., Rochester, N. Y., assignor, by mesne assignments, to American Laundry Machinery Company, Cincinnati, Ohio. Feeding mechanism for mangles. No. 976,553; Nov. 22; Sp. p. 5474; Gaz. vol. 160; p. 924.
Cooper, Edwin H., assignor to C. K. Systems Company, Los Angeles, Cal. Loose-leaf credit-book. No. 966,736; Aug. 9; Sp. p. 1932; Gaz. vol. 157; p. 327.
Cooper, Ellis W., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Cutting mechanism. No. 971,022; Sept. 27; Sp. p. 3999; Gaz. vol. 158; p. 711.
Cooper, Eugene A., Britton, S. D. Spark-timing device for explosive-engines. No. 976,345; Nov. 22; Sp. p. 5018; Gaz. vol. 160; p. 852.
Cooper, G. L. (See Nazor, Arthur U., assignor.)
Cooper, George D. (See McGeorge, William C., assignor.)
Cooper, George D., assignor to H. F. Schaeffer, Dayton, Ohio. Water-heater. No. 968,129; Aug. 23; Sp. p. 4877; Gaz. vol. 157; p. 846.
Cooper, Harry L., Albany, Oreg. Fire-escape. No. 960,510; June 17; Sp. p. 546; Gaz. vol. 155; p. 90.
Cooper Heater Co., The. (See Blackwell, William L., assignor.)
Cooper, Henry S. (See Johnson, Horace G., assignor.)
Cooper-Hewitt Electric Company. (See Bastian and Salisbury, assignors.)
Cooper Hewitt Electric Company. (See Flichtner, Stanwood E., assignor.)
Cooper Hewitt Electric Company. (See Hewitt, Peter C., assignor.)
Cooper Hewitt Electric Company. (See Keller, Frederick H. von, assignor.)
Cooper Hewitt Electric Company. (See Potter, Henry N., assignor.)
Cooper Hewitt Electric Company. (See Recklinghausen, Max von, assignor.)
Cooper Hewitt Electric Company. (See Thomas, Percy H., assignor.)
Cooper, Hugh L., Stamford, Conn. Dam and apparatus for constructing the same. No. 955,851; Apr. 26; Sp. p. 4675; Gaz. vol. 153; p. 832.
Cooper, Hugh L., Stamford, Conn. Dam. No. 968,130; Aug. 23; Sp. p. 4880; Gaz. vol. 157; p. 847.
Cooper, Irvin H., South Bend, Ind. Shoe-polishing device. No. 958,724; May 24; Sp. p. 5005; Gaz. vol. 154; p. 847.
Cooper, James F., Petaluma, Cal. Antiskidding device. No. 949,113; Feb. 15; Sp. p. 2812; Gaz. vol. 151; p. 497.
Cooper, James O., Canadian, Tex. Washboiler. No. 972,341; Oct. 11; Sp. p. 1790; Gaz. vol. 159; p. 314.
Cooper, Jessie, Dayton, Ohio. Hot-water heater. No. 968,451; Aug. 23; Sp. p. 5553; Gaz. vol. 157; p. 958.
Cooper, John. (See Cooper, Leonard and J.)
Cooper, Leonard and J., Adel, Ga. Bicycle-shade. No. 972,063; Oct. 4; Sp. p. 1203; Gaz. vol. 159; p. 203.
Cooper, Louis E., Millsaps, Cal. Wire-stretcher. No. 960,511; June 7; Sp. p. 548; Gaz. vol. 155; p. 90.
Cooper, Lyman M., assignor of one-third to A. E. Stever, Flint, Mich. Steam-trap. No. 847,801; Feb. 1; Sp. p. 46; Gaz. vol. 151; p. 10.
Cooper, M. A. (See Pearson, James H., assignor.)
Cooper, Mary I., Hockley, England. Safety transport-carrier for electric incandescent lamps. No. 969,133; Aug. 30; Sp. p. 7009; Gaz. vol. 157; p. 1219.

Alphabetical list of patentees—Continued.

Cooper, Mary I., Hockley, England. Box for packing electric incandescent lamps. No. 977,935; Dec. 6; Sp. p. 1115; Gaz. vol. 161; p. 178.

Cooper, Robert, Chicago, Ill. Nut-lock. No. 975,605; Nov. 15; Sp. p. 3396; Gaz. vol. 160; p. 577.

Cooper, Thomas, Kings Lynn, Norfolk, England. Internal-combustion engine. No. 955,767; Apr. 19; Sp. p. 4482; Gaz. vol. 153; p. 773.

Cooper, Walter H., *et al.* (See MacDuffee, Chester E., assignor.)

Cooper, William, Pittsburg, Pa. Refrigerating apparatus. No. 950,463; Feb. 22; Sp. p. 5643; Gaz. vol. 151; p. 989.

Cooper, William, North Tarrytown, N. Y. Tool-handle. No. 967,502; Aug. 16; Sp. p. 3575; Gaz. vol. 157; p. 613.

Cooper, William, Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. System of electric-motor control. No. 949,114; Feb. 15; Sp. p. 2813; Gaz. vol. 151; p. 498.

Cooper, William, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regenerative system of control. (Reissue.) No. 13,115; May 17; Sp. p. 4971; Gaz. vol. 154; p. 817.

Cooper, William, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of operation for alternating-current motors and generators. No. 977,597; Dec. 6; Sp. p. 414; Gaz. vol. 161; p. 61.

Cooper, William, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical equalizer system. No. 977,598; Dec. 6; Sp. p. 417; Gaz. vol. 161; p. 61.

Cooper, William, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current generator and motor system. No. 977,784; Dec. 6; Sp. p. 804; Gaz. vol. 161; p. 125.

Cooper, William, assignor to General Refrigerating Company, Pittsburg, Pa. Refrigeration. No. 955,582; Apr. 19; Sp. p. 4046; Gaz. vol. 153; p. 710.

Cooper, William F., Norwalk, Ohio, assignor to The A. B. Chase Company. Operating mechanism for mechanical players. No. 950,892; Mar. 1; Sp. p. 902; Gaz. vol. 152; p. 145.

Cooper, William F., Norwalk, Ohio, assignor to The A. B. Chase Company. Player grand piano. No. 967,330; Aug. 16; Sp. p. 3199; Gaz. vol. 157; p. 555.

Cooper, William J., Stockton, Cal. Postal-card-display device. No. 971,596; Oct. 4; Sp. p. 185; Gaz. vol. 159; p. 34.

Coopersmith, Rudolph, St. Louis, Mo. Sofa-bedstead. No. 978,270; Dec. 13; Sp. p. 1856; Gaz. vol. 161; p. 325.

Coover, Amos J., Medway, Ohio. Track-brace. No. 948,390; Feb. 8; Sp. p. 1289; Gaz. vol. 151; p. 231.

Coover, Amos J., Medway, assignor of one-half to A. B. Mumma, Dayton, Ohio. Sickle. No. 972,098; Oct. 4; Sp. p. 1260; Gaz. vol. 159; p. 214.

Coover, Charles W., Fort Collins, Colo. Window-cleaning utensil. No. 952,309; Mar. 15; Sp. p. 3729; Gaz. vol. 152; p. 667.

Coover, Charles W., Chicago, Ill. Window-cleaning utensil. No. 960,276; June 7; Sp. p. 74; Gaz. vol. 155; p. 16.

Cope, Thomas J., Philadelphia, Pa. Electric bond. No. 963,035; July 5; Sp. p. 16; Gaz. vol. 156; p. 5.

Copeland, Charles C., New York, N. Y., and F. M. Bennet, East Orange, N. J. Bed sheet and sheeting. No. 977,936; Dec. 6; Sp. p. 1115; Gaz. vol. 161; p. 178.

Copeland, George W., assignor of one-half to G. R. Byrum, Ensley, Ala. Cotton-planter. No. 970,186; Sept. 13; Sp. p. 2225; Gaz. vol. 158; p. 378.

Copeland, John P., *et al.* (See Ballard, Cullum P., assignor.)

Copeland, Lucius D., Alhambra, Cal. Compounding and condensing apparatus for locomotive-engines. No. 976,554; Nov. 22; Sp. p. 5476; Gaz. vol. 160; p. 925.

Copeland, Robert J., and A. E. Chatterson, Toronto, Ontario, Canada. Loose-leaf binder. No. 945,916; Jan. 11; Sp. p. 2030; Gaz. vol. 150; p. 338.

Copeland, Thaddeus T., Rector, Ark. Shipping case or box. No. 947,886; Feb. 1; Sp. p. 235; Gaz. vol. 151; p. 38.

Copeland, Wilber G., Portland, Oreg. Feed-water filter and purifier. No. 953,377; Mar. 29; Sp. p. 6031; Gaz. vol. 152; p. 1084.

Copenhaver, Elmer P., Sparks, W. Va. Horse-detacher. No. 962,942; June 28; Sp. p. 5669; Gaz. vol. 155; p. 993.

Coplen, John D., Globe, Ariz. Irrigating planter and cultivator. No. 952,607; Mar. 22; Sp. p. 4369; Gaz. vol. 152; p. 798.

Coplen, John D., Globe, Ariz. Earth-drill. No. 975,020; Nov. 8; Sp. p. 2142; Gaz. vol. 160; p. 350.

Copley, Noiberto G., assignor to The "S. C." Regulator Company, Fostoria, Ohio. Water-level regulator. No. 970,421; Sept. 13; Sp. p. 2704; Gaz. vol. 158; p. 457.

Copp, Charles H., *et al.* (See Dillon, Friend E., assignor.)

Coppers, John A., and E. E. Booth, Denison, Tex. Lubricator. No. 976,637; Nov. 22; Sp. p. 5638; Gaz. vol. 160; p. 953.

Coppers, William S., Belleville, Kans. Car-replacer. No. 949,315; Feb. 15; Sp. p. 3213; Gaz. vol. 151; p. 566.

Coppersmith, C. W. (See Coppersmith, Jacob, assignor.)

Coppersmith, Jacob, assignor of one-half to C. W. Coppersmith, Collinwood, Ohio. Joint. No. 952,608; Mar. 22; Sp. p. 4173; Gaz. vol. 152; p. 798.

Copping, James L. (See Trautmann and Copping.)

Coppinger, John M., *et al.* (See Hollis, Elbert H., assignor.)

Coppridge, Joel A., Browns Summit, N. C. Baking-stove. No. 957,748; May 10; Sp. p. 2643; Gaz. vol. 154; p. 456.

Coram, John C., Lowell, Mass. Machine for winding cones and tubes. No. 980,069; Dec. 27; Sp. p. 5727; Gaz. vol. 161; p. 985.

Corbett, Dennis, *et al.* (See Cornatzer, Samuel L., assignor.)

Corbett, Ellsworth F., New York, N. Y. Tea and coffee saver. No. 949,523; Feb. 15; Sp. p. 3651; Gaz. vol. 151; p. 636.

Corbett-Stevens Company, The. (See Draudt, Benjamin R., assignor.)

Corbin, Austin, 2d. (See Nye, Samuel, assignor.)

Corbin Cabinet Lock Company, The. (See Johnson, Charles E., assignor.)

Corbin Cabinet Lock Company. (See Stone, Elmer B., assignor.)

Corbin Cabinet Lock Company, The. (See Thomas, Charles H., assignor.)

Corbin, Julian E., Alameda, Cal. Vacuum supporting device. No. 979,436; Dec. 27; Sp. p. 4352; Gaz. vol. 161; p. 771.

Corbitt, James, Riley, Fla. Jack. No. 953,596; Mar. 29; Sp. p. 6495; Gaz. vol. 152; p. 1160.

Corbridge, William, Bury, England. Gas-fitting. No. 976,987; Nov. 29; Sp. p. 6437; Gaz. vol. 160; p. 1099.

Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 976,124; Nov. 15; Sp. p. 4449; Gaz. vol. 160; p. 753.

Corcoran, John C., St. Paul, Minn. Denture. No. 973,343; Oct. 18; Sp. p. 4037; Gaz. vol. 159; p. 691.

Corcoran, John C., St. Paul, Minn. Dental apparatus. No. 973,408; Oct. 18; Sp. p. 4182; Gaz. vol. 159; p. 712.

Corcoran, Richard M., Cleveland, Ohio. Pipe connection. No. 956,294; Apr. 26; Sp. p. 5663; Gaz. vol. 153; p. 986.

Cordes, Charles J. T., Waldwick, N. J. Building-block mold. No. 950,370; Feb. 22; Sp. p. 5472; Gaz. vol. 151; p. 959.

Cordle, Hamner J., Littleton, N. C., assignor of one-half to E. A. Pendergrass, Harlem, Ga. Muffler. No. 953,778; Apr. 5; Sp. p. 189; Gaz. vol. 153; p. 35.

Cordley, Henry G. (See Cordley and Kleinschmidt, assignors.)

Cordley, Henry G., Glen Ridge, N. J. Faucet. No. 964,615; July 19; Sp. p. 3469; Gaz. vol. 156; p. 593.

Cordley, Henry G., Glen Ridge, N. J., and E. Kleinschmidt, New York, N. Y., assignors to H. G. Cordley, Glen Ridge, N. J. Liquid measuring and vending device. No. 968,743; Aug. 30; Sp. p. 6217; Gaz. vol. 157; p. 1086.

Cordley, Henry G., Glen Ridge, N. J., and G. R. Long, Waterbury, Conn., assignors to Scoville Manufacturing Company. Faucet. No. 972,826; Oct. 18; Sp. p. 2854; Gaz. vol. 159; p. 509.

Corey, Fred B., Schenectady, N. Y., assignor to General Electric Company. Low-speed circuit-controller. No. 967,171; Aug. 16; Sp. p. 2888; Gaz. vol. 157; p. 500.

Corey, Fred B., Schenectady, N. Y., assignor to General Electric Company. Electrically-operated track-switch. No. 969,526; Sept. 6; Sp. p. 798; Gaz. vol. 158; p. 125.

Corey, George D., Providence, R. I. Umbrella attachment. No. 976,638; Nov. 22; Sp. p. 5642; Gaz. vol. 160; p. 954.

Corey, Marvin J. (See Gillespie and Corey.)

Cork, William W., Naper, Nebr. Wheel-hub. No. 956,041; Apr. 26; Sp. p. 5091; Gaz. vol. 153; p. 899.

Cork, William W., Caton, assignor of one-half to E. C. Kimball, Paxton, S. D. Car-door. No. 979,654; Dec. 27; Sp. p. 4833; Gaz. vol. 161; p. 848.

Corlew, Charles C., assignor to G. Corlew, Fresno, Cal. Sprinkler. No. 958,229; May 17; Sp. p. 3865; Gaz. vol. 154; p. 653.

Corlew, Gladys. (See Corlew, Charles C., assignor.)

Corliss, Herbert A., Grants Pass, Oreg. Grizzly. No. 969,603; Sept. 6; Sp. p. 973; Gaz. vol. 158; p. 154.

Corliss, William, Providence, R. I. Valve. No. 970,469; Sept. 20; Sp. p. 2829; Gaz. vol. 158; p. 494.

Cormack, Charles F., Mill Valley, Cal. Merchandise-chute. No. 961,340; June 14; Sp. p. 2275; Gaz. vol. 155; p. 401.

Cormack, John H. (See Cole, Percival R., assignor.)

Cornatzer, Samuel L., assignor of one-third to E. Olsen and one-third to D. Corbett, Phoenix, Ariz. Grain-loader. No. 955,947; Apr. 26; Sp. p. 4887; Gaz. vol. 153; p. 865.

Cornelius, Arthur B., and D. C. Dean, Alton Park, Tenn. Nut-lock. No. 971,023; Sept. 27; Sp. p. 4002; Gaz. vol. 158; p. 711.

Cornell, David F., Rochester, Minn., assignor, by mesne assignments, of two-thirds to G. A. Poole, Greenwood, Wis. Air-pump. No. 955,321; Apr. 19; Sp. p. 3505; Gaz. vol. 153; p. 621.

Cornell, Elmer W., Traverse City, Mich. Cultivator attachment. No. 973,480; Oct. 25; Sp. p. 4333; Gaz. vol. 159; p. 760.

Alphabetical list of patentees—Continued.

Cornell, John M., Phillipstown, N. Y. Sectional sash-weight. No. 957,498; May 10; Sp. p. 2143; Gaz. vol. 154; p. 371.
Cornell, Sidney, Duquesne, Pa. Apparatus and process for preparing pulverous iron ores and the like for smelting in blast-furnaces and use in open-hearth furnaces. No. 962,006; June 21; Sp. p. 3672; Gaz. vol. 155; p. 646.
Cornillie, Charles P. (See Cornillie, Edward A. and C. P.)
Cornillie, Edward A. and C. P., Milwaukee, Wis. Refrigerator. No. 971,526; Oct. 4; Sp. p. 32; Gaz. vol. 159; p. 8.
Cornine, Marshall, New York, N. Y. Index. No. 979,437; Dec. 27; Sp. p. 4352; Gaz. vol. 161; p. 771.
Corning, Charles S., Chicago, Ill. Draft-gear. No. 954,378; Apr. 5; Sp. p. 1437; Gaz. vol. 153; p. 240.
Corning Glass Works. (See Churchill, William, assignor.)
Corning, Thomas J., Orion, Ill. Baling-press. No. 947,375; Jan. 25; Sp. p. 5276; Gaz. vol. 150; p. 887.
Cornwall, Frederick R., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 959,466; May 31; Sp. p. 6583; Gaz. vol. 154; p. 1123.
Cornwall, Frederick R., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 960,828; June 7; Sp. p. 1196; Gaz. vol. 155; p. 199.
Cornwall, Frederick R., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 966,429; Aug. 9; Sp. p. 1219; Gaz. vol. 157; p. 221.
Cornwall, George R., Rye, N. Y., assignor to American Planograph Company. Printing-plate and producing same. No. 951,103; Mar. 8; Sp. p. 1301; Gaz. vol. 152; p. 238.
Cornwall, Hanford T., Brockton, Mass. Draft-regulator. No. 946,018; Jan. 11; Sp. p. 2242; Gaz. vol. 150; p. 372.
Cornwell, Obadiah M., Plattsburg, Miss. Churn-dasher. No. 972,827; Oct. 18; Sp. p. 2856; Gaz. vol. 159; p. 510.
Corporation of Chemische Fabrik Griesheim-Elektron. (See List, Georg, assignor.)
Correjolles, Theodore, and J. F. Davis, New Orleans, La. Filling and discharging means for flush-tanks. No. 952,101; Mar. 15; Sp. p. 3318; Gaz. vol. 152; p. 597.
Corrigan, Edward J., East St. Louis, Ill. Adjustable shade-roller and curtain fixture. No. 966,798; Aug. 9; Sp. p. 2095; Gaz. vol. 157; p. 347.
Corrigan, Henry J., Dublin, Ga. Revolving grate. No. 970,890; Sept. 20; Sp. p. 3753; Gaz. vol. 158; p. 640.
Corrigan, Hugh, Cleveland, Ohio. Non-refillable bottle. No. 949,220; Feb. 15; Sp. p. 3008; Gaz. vol. 151; p. 534.
Corrigan, John T., Rockford, Ill. Railway-gate. No. 957,868; May 17; Sp. p. 2899; Gaz. vol. 154; p. 525.
Corrigan, Michael, Notre Dame, Ind. Printer's galley. No. 961,684; June 14; Sp. p. 2977; Gaz. vol. 155; p. 515.
Corrigan, Patrick D., Wellsville, N. Y. Window. No. 972,681; Oct. 11; Sp. p. 2544; Gaz. vol. 159; p. 433.
Corrington, Aldon R., Hartley, Iowa. Hand-plow. No. 948,847; Feb. 8; Sp. p. 2264; Gaz. vol. 151; p. 384.
Corrington, Aldon R., Hartley, Iowa. Tire-grip. No. 957,309; May 10; Sp. p. 1755; Gaz. vol. 154; p. 307.
Corrington, Aldon R., Hartley, Iowa. Hand-plow. No. 959,425; May 24; Sp. p. 6467; Gaz. vol. 154; p. 1083.
Corron, César. (See Mayoux and Verchère, assignors.)
Corrugated Bar Company. (See Johnson, Albert L., assignor.)
Corser, George E. (See Roberts and Corser.)
Cortese, Domenic, Spooner, Wis. Ratchet-drill. No. 964,616; July 19; Sp. p. 3471; Gaz. vol. 156; p. 593.
Corthell, William M., assignor to Railway Automatic Mail Device Co., Chicago, Ill. Mail-collecting device. No. 959,467; May 31; Sp. p. 6584; Gaz. vol. 154; p. 1123.
Corthell, William M., Chicago, Ill., assignor to Railway Automatic Mail Device Co. Mail-deliverer. No. 959,468; May 31; Sp. p. 6587; Gaz. vol. 154; p. 1124.
Corwin, Elmer R., assignor, by mesne assignments, to Corwin Telephone Manufacturing Company, Chicago, Ill. Intercommunicating telephone system. No. 957,869; May 17; Sp. p. 2901; Gaz. vol. 154; p. 526.
Corwin, G. M., *et al.* (See Glymps, Frank W., assignor.)
Corwin, John, Chicago, Ill. Antiskidding-tire. No. 955,634; Apr. 19; Sp. p. 4191; Gaz. vol. 153; p. 729.
Corwin, John, Chicago, Ill. Pneumatic tire. No. 965,281; July 26; Sp. p. 4916; Gaz. vol. 156; p. 848.
Corwin Telephone Manufacturing Company. (See Corwin, Elmer R., assignor.)
Corwin Telephone Manufacturing Company. (See Staub, Frank X., assignor.)
Cory, Charles, *et al.* (See Wood, Frank W., assignor.)
Cory, George D., Providence, R. I. Umbrella attachment. No. 971,173; Sept. 27; Sp. p. 4340; Gaz. vol. 158; p. 761.
Cory, Harvey, assignor to Pittsburgh Coal Washer Company, Pittsburg, Pa. Coal-washing apparatus. No. 963,519; July 5; Sp. p. 1119; Gaz. vol. 156; p. 170.
Cory, John M., *et al.* (See Wood, Frank W., assignor.)
Cory & Reynolds Company. (See Brant, John S., assignor.)
Cory & Reynolds Company. (See Dean, Calvin, assignor.)
Cory & Son, Charles. (See Wood, Frank W., assignor.)
Coryell, Frank, Trenton, N. J. Automobile-sign. No. 949,996; Feb. 22; Sp. p. 4714; Gaz. vol. 151; p. 833.
Coryell, George N., assignor to G. A. Bisler, Incorporated, Philadelphia, Pa. Paper-box-making appliance. No. 956,486; Apr. 26; Sp. p. 6078; Gaz. vol. 153; p. 1052.
Cosby, Clarence, Richmond, Va. Can-shearing machine. No. 972,828; Oct. 18; Sp. p. 2858; Gaz. vol. 159; p. 510.
Cosby, Oscar G., assignor of forty-nine one-hundredths to F. F. Causey, Hampton, Va. Bearing. No. 959,469; May 31; Sp. p. 6589; Gaz. vol. 154; p. 1124.
Cosby, Oscar G., assignor of forty-nine one-hundredths to F. F. Causey, Hampton, Va. Bearing. No. 978,115; Dec. 6; Sp. p. 1494; Gaz. vol. 161; p. 241.
Coseglia, Anthony, West Hoboken, N. J. Coin-vending machine. No. 970,801; Sept. 20; Sp. p. 3578; Gaz. vol. 158; p. 612.
Cosford, Alexander, Oak Lake, Manitoba, Canada. Grain-measure. No. 967,172; Aug. 16; Sp. p. 2889; Gaz. vol. 157; p. 500.
Cosgrove, Joseph J., Philadelphia, Pa. Water-closet connection. No. 961,685; June 14; Sp. p. 2978; Gaz. vol. 155; p. 515.
Cosgrove, Joseph J., Philadelphia, Pa. Water-closet connection. No. 962,943; June 28; Sp. p. 5671; Gaz. vol. 155; p. 993.
Cosgrove, Joseph J., Philadelphia, Pa. Water-closet connection. No. 963,688; July 5; Sp. p. 1440; Gaz. vol. 156; p. 226.
Cosgrove, Lawrence, Villard, Minn. Gate-latch. No. 953,899; Apr. 5; Sp. p. 429; Gaz. vol. 153; p. 78.
Cosh, H. M. (See Clayton, Edward S., assignor.)
Cosmos Construction Company. (See Lamson, Franklin S., assignor.)
Cosner, Bruce L. (See Hollingsworth, Willis A., assignor.)
Cosner, Daniel, Lenore, Idaho. Wagon-reach. No. 965,990; Aug. 2; Sp. p. 309; Gaz. vol. 157; p. 51.
Cosper, William P., Chicago, Ill. Controller-regulator. No. 949,755; Feb. 22; Sp. p. 4126; Gaz. vol. 151; p. 747.
Cosper, William P., Chicago, Ill., assignor to Roth Manufacturing Company. Water-heater. (Reissue.) No. 13,166; Nov. 8; Sp. p. 2947; Gaz. vol. 160; p. 475.
Cosserat, Oscar, Amiens, France. Shuttle-changing mechanism for looms. No. 953,779; Apr. 5; Sp. p. 190; Gaz. vol. 153; p. 35.
Cosset, Constant M., Paris, France. Pivoted lug for the back forks of bicycles. No. 972,510; Oct. 11; Sp. p. 2162; Gaz. vol. 159; p. 375.
Cossey, Myron, assignor to Reliance Ball Bearing Door Hanger Company, New York, N. Y. Latch for door-hangers. No. 949,221; Feb. 15; Sp. p. 3009; Gaz. vol. 151; p. 534.
Cossey, Myron, assignor to Reliance Ball Bearing Door Hanger Company, New York, N. Y. Door-supporting device. No. 950,717; Mar. 1; Sp. p. 559; Gaz. vol. 152; p. 87.
Cossey, Myron, assignor to Reliance Ball Bearing Door Hanger Company, New York, N. Y. Door-hanger. No. 954,933; Apr. 12; Sp. p. 2719; Gaz. vol. 153; p. 460.
Costa, Joseph E., Downey, Cal. Pipe-coupling. No. 947,711; Jan. 25; Sp. p. 6005; Gaz. vol. 150; p. 999.
Costa, Louis A. (See Landis and Costa.)
Costello, John W., Champlain, N. Y. Saw. No. 963,520; July 5; Sp. p. 1121; Gaz. vol. 156; p. 170.
Costello, Loretto A., Philadelphia, Pa., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Hosiery. No. 976,555; Nov. 22; Sp. p. 5477; Gaz. vol. 160; p. 925.
Costello, Patrick F., Vintondale, Pa. Mining-needle. No. 977,275; Nov. 29; Sp. p. 7048; Gaz. vol. 160; p. 1199.
Costello, Terrence W., and J. W. Houston, Conception Junction, Mo. Tile-molding machine. No. 948,682; Feb. 8; Sp. p. 1914; Gaz. vol. 151; p. 328.
Costello, Thomas H., Chicago, Ill. Eraser. No. 945,377; Jan. 4; Sp. p. 811; Gaz. vol. 150; p. 125.
Costello, Thomas H., Chicago, Ill. Globe-yoke. No. 945,378; Jan. 4; Sp. p. 812; Gaz. vol. 150; p. 125.
Costello, Thomas H., Chicago, Ill. Yoke for globe suspension. No. 945,379; Jan. 4; Sp. p. 813; Gaz. vol. 150; p. 126.
Cota, Daniel E., assignor of one-half to J. Fischer, Boston, Mass. Rotary engine. No. 979,262; Dec. 20; Sp. p. 4022; Gaz. vol. 161; p. 692.
Cota, Simon P., Dickinson, N. D. Air-brake-system signaling apparatus. No. 952,070; Mar. 15; Sp. p. 3260; Gaz. vol. 152; p. 587.
Cota, Simon P., Dickinson, N. D. Cut-out and release for air-brake apparatus. No. 969,344; Sept. 6; Sp. p. 407; Gaz. vol. 158; p. 66.
Cote, Francois X., Biddeford, Me. Comb-cleaner. No. 979,747; Dec. 27; Sp. p. 5049; Gaz. vol. 161; p. 879.
Côté, Henry, West Warren, assignor to Ware Machine & Loom Company, Ware, Mass. Loom. No. 957,546; May 10; Sp. p. 2243; Gaz. vol. 154; p. 388.
Côté, Henry, West Warren, and R. C. Snow, assignors to Ware Machine & Loom Company, Ware, Mass. Device for preventing rebound of shuttles. No. 962,495; June 28; Sp. p. 4767; Gaz. vol. 155; p. 840.
Cots, Higinio, San Jose, Costa Rica. Draftsman's table. No. 976,639; Nov. 22; Sp. p. 5643; Gaz. vol. 160; p. 954.

Alphabetical list of patentees—Continued.

Cotter, Edwin J. (See Williams and Cotter.)
Cotter, James M., *et al.* (See Small, William E., assignor.)
Cotter, Michael L., Somerville, Mass. Car-door guide and guard. No. 977,069; Nov. 29; Sp. p. 6610; Gaz. vol. 160; p. 1127.
Cottin, Cysille, Lyon-Monplaisir, France. Coupling for shafts and the like. No. 951,235; Mar. 8; Sp. p. 1556; Gaz. vol. 152; p. 279.
Cottman, L. W. (See Cumming, Millard C., assignor.)
Cottom, Albert, Chillicothe, Iowa. Railway-track. No. 965,567; July 26; Sp. p. 5570; Gaz. vol. 156; p. 948.
Cotton Harvester Company, The. (See Patterson, Warren A., assignor.)
Cotton, Leo A., Hornsby, near Sydney, New South Wales, Australia. Speed-indicator for ships. No. 976,725; Nov. 22; Sp. p. 5800; Gaz. vol. 160; p. 982.
Cottrell, Edgar H., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Folding machinery. No. 970,688; Sept. 20; Sp. p. 3318; Gaz. vol. 158; p. 570.
Cottrell, Edgar H., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 974,360; Nov. 1; Sp. p. 647; Gaz. vol. 160; p. 97.
Cottrell, Frederick G., Berkeley, assignor to International Precipitation Company, San Francisco, Cal. Effecting interchange of electric charges between solid conductors and gases. No. 945,917; Jan. 11; Sp. p. 2031; Gaz. vol. 150; p. 338.
Cottrell, James F., East Boston, Mass. Heater. No. 951,677; Mar. 8; Sp. p. 2463; Gaz. vol. 152; p. 426.
Cottrell, Thomas M., assignor to P. Nielsen and F. E. Peterson, Chicago, Ill. Sheet-music turner. No. 977,785; Dec. 6; Sp. p. 806; Gaz. vol. 161; p. 125.
Couaillet, Armand. (See Gounevitch and Couaillet.)
Couch, George B. (See Francart, Debay, Johnston, and Couch.)
Couch, Roy O. (See Salsbury and Couch.)
Couch, Samuel H. (See Stevens, Alton E., assignor.)
Couch, Samuel H., Boston, Mass. Telephone system. No. 951,558; Mar. 8; Sp. p. 2227; Gaz. vol. 152; p. 386.
Couder, Jean, Toulouse, France. Apparatus for utilizing the force of the wind for propelling cycles. No. 947,731; Jan. 25; Sp. p. 6035; Gaz. vol. 150; p. 1006.
Coughlin, Gilbert J. (See Lien, Carl H., assignor.)
Coughlin, James P., Chicago, Ill. Advertising device. No. 973,003; Oct. 18; Sp. p. 3296; Gaz. vol. 159; p. 573.
Coughlin, John. (See Parks and Coughlin.)
Coughlin, John X. (See Morrissy, Wise, and Byrne, assignors.)
Coulombe, Ignace. (See Dupuis, Joseph, assignor.)
Coulston, Thomas V., and C. E. Teeter, assignors of one-third to L. N. Bassett, Springfield, Mo. Combination box-car. No. 967,615; Aug. 16; Sp. p. 3793; Gaz. vol. 157; p. 651.
Coulter, Leonard P., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Electric switch. No. 949,263; Feb. 15; Sp. p. 3110; Gaz. vol. 151; p. 548.
Coulter & McKenzie Machine Company, The. (See Berg, Andrew, assignor.)
Coulthard, Richard E., St. Mary's, Ontario, Canada. Churn. No. 948,643; Feb. 8; Sp. p. 1834; Gaz. vol. 151; p. 315.
Councell, Charles, Philadelphia, Pa. Non-refillable bottle. No. 959,201; May 24; Sp. p. 6041; Gaz. vol. 154; p. 1009.
Couper, Edgar W. (See Dollin and Couper.)
Coursen, George L., Newark, N. J. Photographer's printing-frame. No. 973,629; Oct. 25; Sp. p. 4656; Gaz. vol. 159; p. 810.
Coursen, George L., Newark, N. J., assignor, by mesne assignments, to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 946,657; Jan. 18; Sp. p. 3674; Gaz. vol. 150; p. 615.
Coursey, Benjamin H. (See McKee and Coursey.)
Coursey, John W., Agudo, N. Mex. Horse-detacher. No. 971,974; Oct. 4; Sp. p. 1034; Gaz. vol. 159; p. 172.
Courson, Charles L., Pitcairn, Pa. Uncoupling mechanism for pipe-couplings. No. 968,131; Aug. 23; Sp. p. 4882; Gaz. vol. 157; p. 847.
Courson, John F., Pitcairn, Pa. Friction draft-gear. No. 945,700; Jan. 4; Sp. p. 1478; Gaz. vol. 150; p. 231.
Courson, John F., Pitcairn, Pa. Draft-gearing. No. 966,656; Aug. 9; Sp. p. 1755; Gaz. vol. 157; p. 299.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 970,802; Sept. 20; Sp. p. 3580; Gaz. vol. 158; p. 612.
Courtauld and Co., Samuel. (See Clayton, James, assignor.)
Courtenay, John, Aviemore, Cape Colony. Flat-iron. No. 946,490; Jan. 11; Sp. p. 3338; Gaz. vol. 150; p. 536.
Courtland, William A., Brooklyn, N. Y., assignor, by mesne assignments, to The Connecticut Hook and Eye Company, Waterbury, Conn. Hook-and-eye-sewing machine. No. 974,753; Nov. 1; Sp. p. 1528; Gaz. vol. 160; p. 234.
Courtney, Dana S., Chicopee, Mass. Machine for applying split rings on the butts of bobbins. No. 979,438; Dec. 27; Sp. p. 4355; Gaz. vol. 161; p. 772.
Courtney, William J., New York, N. Y. Vehicle-tire. No. 949,060; Feb. 15; Sp. p. 2702; Gaz. vol. 151; p. 481.
Courtois, Gabriel F., Paris, France. Polishing means. No. 952,186; Mar. 15; Sp. p. 3472; Gaz. vol. 152; p. 625.
Courtois, Luke, Appleton, Wis. Brake-operating mechanism. No. 950,477; Mar. 1; Sp. p. 31; Gaz. vol. 152; p. 7.
Courtright, Edgar, deceased, Tacoma, Wash.; E. L. Courtwright, administrator. Water or like motor or pump. No. 945,701; Jan. 4; Sp. p. 1480; Gaz. vol. 150; p. 231.
Courtwright, Elmer L., administrator. (See Courtright, Edgar.)
Cousino, Charles R., Crescent City, Cal. Pliers. No. 945,702; Jan. 4; Sp. p. 1482; Gaz. vol. 150; p. 232.
Cousino, Charles R., Crescent City, Cal. Bit-brace. No. 953,518; Mar. 29; Sp. p. 6329; Gaz. vol. 152; p. 1135.
Cousins, William J. (See Nickerson and Cousins.)
Coutelle, Carl. (See Hofmann and Coutelle.)
Couture, Romain, Somersworth, N. H. Fire-alarm system. No. 962,625; June 28; Sp. p. 5053; Gaz. vol. 155; p. 883.
Covell, Harry N., New York, N. Y., assignor to Lidgerwood Manufacturing Company. Winch. No. 967,331; Aug. 16; Sp. p. 3207; Gaz. vol. 157; p. 555.
Covert, Edson C., New Kensington, Pa. Metallic carline. No. 976,435; Nov. 22; Sp. p. 5216; Gaz. vol. 160; p. 885.
Covert, Edson C., New Kensington, Pa. Trussed-beam construction. No. 976,436; Nov. 22; Sp. p. 5217; Gaz. vol. 160; p. 885.
Covert, Edward. (See Schepper and Covert.)
Covert, Fred W., assignor to Covert Manufacturing Company, Watervliet, N. Y. Bolt snap-hook. No. 961,686; June 14; Sp. p. 2979; Gaz. vol. 155; p. 516.
Covert, James C., assignor to Covert Manufacturing Company, Watervliet, N. Y. Spring-tongue snap-hook. No. 959,116; May 24; Sp. p. 5860; Gaz. vol. 154; p. 982.
Covert Manufacturing Company. (See Covert, Fred W., assignor.)
Covert Manufacturing Company. (See Covert, James C., assignor.)
Covert, William L., assignor to J. V. Hawk, Boise, Idaho. Securing means for handles of tools. No. 954,259; Apr. 5; Sp. p. 1194; Gaz. vol. 153; p. 200.
Covey, Frank R., Riverside, Cal. Box-lid clamp or holder. No. 965,087; July 19; Sp. p. 4523; Gaz. vol. 156; p. 754.
Covey, Nathan S. (See Humphrey, Edwin H., assignor.)
Covey, Nathan S., *et al.* (See Humphrey, Edwin H., assignor.)
Cowan, Edward, assignor of one-half to R. M. Napier, Bethune, Saskatchewan, Canada. Attachment for harness. No. 970,310; Sept. 13; Sp. p. 2497; Gaz. vol. 158; p. 421.
Cowan, Harry I., Boston, Mass., assignor to The Meriden Optical Manufacturing Company, Meriden, Conn. Bifocal testing-frame. No. 980,070; Dec. 27; Sp. p. 5734; Gaz. vol. 161; p. 986.
Cowan, John A., Winnipeg, Manitoba, Canada. Grain pickling and cleaning machine. No. 958,097; May 17; Sp. p. 3603; Gaz. vol. 154; p. 607.
Cowan, McClure W., and D. Felten, Parsons, Kans. Oil-burner. No. 949,648; Feb. 15; Sp. p. 3893; Gaz. vol. 151; p. 678.
Cowan, Richard J. D., Greenville, Mo., assignor of two-thirds to D. W. Heilig, Pulaski, Ill. Concrete railway-tie. No. 976,726; Nov. 22; Sp. p. 5803; Gaz. vol. 160; p. 983.
Coward, William M., Sydney, New South Wales, Australia. Distributing and reversing expansion-valve. No. 957,499; May 10; Sp. p. 2145; Gaz. vol. 154; p. 371.
Cowden, Carrie A. (See Boydston and Cowden.)
Cowden, Walter V. (See Church and Cowden.)
Cowdrey, Robert H., Chicago, Ill. Safety device for gas. No. 954,783; Apr. 12; Sp. p. 2356; Gaz. vol. 153; p. 407.
Cowdrick, Erma H., Allegheny, Pa. Bouquet-holder. No. 968,452; Aug. 23; Sp. p. 5555; Gaz. vol. 157; p. 958.
Cowen, Joshua L. (See Cohen, Joshua L.)
Cowie, Charles S., Culpeper, Va. Surgical instrument. No. 969,134; Aug. 30; Sp. p. 7010; Gaz. vol. 157; p. 1219.
Cowing, Percy F., New York, N. Y. Producing alloys and the separation of metals. No. 969,773; Sept. 13; Sp. p. 1350; Gaz. vol. 158; p. 237.
Cowles, Arthur B., Rochester, N. Y. Sheet-feeding mechanism. No. 976,640; Nov. 22; Sp. p. 5645; Gaz. vol. 160; p. 954.
Cowles, Arthur B., Rochester, N. Y. Box-folding machine. No. 978,702; Dec. 13; Sp. p. 2775; Gaz. vol. 161; p. 473.
Cowles, Emma M., Milwaukee, Wis. Hook and eye. No. 958,369; May 17; Sp. p. 4304; Gaz. vol. 154; p. 703.
Cowles, Hiram L., Princeton, Minn. Support for carriage-lamps. No. 965,158; July 26; Sp. p. 4666; Gaz. vol. 156; p. 808.
Cowles, Irving, Chicago, Ill. Anchor-socket. No. 960,625; June 7; Sp. p. 794; Gaz. vol. 155; p. 130.
Cowles, William P., assignor of six-tenths to J. W. Wunder, Minneapolis, Minn. Reinforced concrete structure. No. 969,039; Aug. 30; Sp. p. 6802; Gaz. vol. 157; p. 1185.
Cowley, James T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Speed-controller. No. 962,819; June 28; Sp. p. 5444; Gaz. vol. 155; p. 951.

Alphabetical list of patentees—Continued.

Cowley, James T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Cable-carrier apparatus. No. 977,070; Nov. 29; Sp. p. 6612; Gaz. vol. 160; p. 1127.

Cowley, James T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 978,271; Dec. 13; Sp. p. 1858; Gaz. vol. 161; p. 325.

Cowley, James T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 978,272; Dec. 13; Sp. p. 1860; Gaz. vol. 161; p. 326.

Cowley, James T., and E. G. Thomas, Boston, Mass., assignors to Lamson Consolidated Store Service Company, Newark, N. J. Sorting-table. No. 958,230; May 17; Sp. p. 3867; Gaz. vol. 154; p. 653.

Cowley, William M., Richfield, Utah. Gypsum-block-making machine. No. 980,144; Dec. 27; Sp. p. 5919; Gaz. vol. 161; p. 1010.

Cowper-Coles, Sherard O., Westminster, London, England. Production of metallic paper or the like. No. 951,365; Mar. 8; Sp. p. 1835; Gaz. vol. 152; p. 322.

Cowper-Coles, Sherard O., Westminster, London, England. Armor-plate. No. 952,877; Mar. 22; Sp. p. 4943; Gaz. vol. 152; p. 890.

Cowper-Coles, Sherard O., Westminster, London, assignor of one-half to Metalloids Limited, Tipton, England. Scaling, annealing, and coating metals. No. 979,931; Dec. 27; Sp. p. 5440; Gaz. vol. 161; p. 940.

Cowper-Smith, Mervyn G., Toronto, Ontario, Canada. Automatic controlling apparatus for lighting systems. No. 972,752; Oct. 11; Sp. p. 2697; Gaz. vol. 159; p. 459.

Cox, Albert G., assignor to F. K. Sawyer, Alexandria, Ind. Carboy-package. No. 950,093; Feb. 22; Sp. p. 4921; Gaz. vol. 151; p. 866.

Cox, Alpheus M., Haviland, Kans. Windmill. No. 955,768; Apr. 19; Sp. p. 4484; Gaz. vol. 153; p. 774.

Cox, Amos M., assignor of one-half to H. Metcalf, Los Angeles, Cal. Eucalyptus-oil solution and manufacture thereof. No. 971,359; Sept. 27; Sp. p. 4706; Gaz. vol. 158; p. 822.

Cox, Augustine A. (See Anderson, Robert, assignor.)

Cox and Brother, George S. (See Cox, George S., assignor.)

Cox, Claude E., Minneapolis, Minn. Automobile. No. 962,626; June 28; Sp. p. 5054; Gaz. vol. 155; p. 883.

Cox, Edward L., Alamosa, Colo. Artificial bait. No. 975,833; Nov. 15; Sp. p. 3866; Gaz. vol. 160; p. 653.

Cox, Ezekiel B., Newtown, Pa. Apparatus for treating grain. No. 961,068; June 7; Sp. p. 1664; Gaz. vol. 155; p. 279.

Cox, Frederick J., Kentish Town, London, England. Carbureter. No. 969,941; Sept. 13; Sp. p. 1725; Gaz. vol. 158; p. 296.

Cox, George S., Fitzwatertown, assignor to G. S. Cox and Brother, Philadelphia, Pa. Warp-beam. No. 946,534; Jan. 18; Sp. p. 3439; Gaz. vol. 150; p. 578.

Cox, George S., Fitzwatertown, assignor to G. S. Cox and Brother, Philadelphia, Pa. Haircloth-loom. No. 948,370; Feb. 8; Sp. p. 1232; Gaz. vol. 151; p. 224.

Cox, George S., Edge Hill, Pa., assignor to G. S. Cox and Brother. Shuttle for haircloth-looms. No. 948,415; Feb. 8; Sp. p. 1340; Gaz. vol. 151; p. 239.

Cox, George W., Rock Island, Ill. Double-flap envelop. No. 950,371; Feb. 22; Sp. p. 5475; Gaz. vol. 151; p. 959.

Cox, George W., Edison, Nebr. Hog-catching machine. No. 955,139; Apr. 19; Sp. p. 3117; Gaz. vol. 153; p. 559.

Cox, George W., Edison, Nebr. Hog-holding machine. No. 970,187; Sept. 13; Sp. p. 2226; Gaz. vol. 158; p. 379.

Cox, Henry J., and S. J. Gallagher, New Orleans, La. Fulcrum-block. No. 946,496; Jan. 11; Sp. p. 3349; Gaz. vol. 150; p. 538.

Cox, John S., Yuma, Ariz. Variable-speed gearing. No. 958,694; May 17; Sp. p. 4935; Gaz. vol. 154; p. 810.

Cox, Joseph N., assignor of one-half to E. F. Holbrock, Toledo, Ohio. Material-moving mechanism. No. 954,784; Apr. 12; Sp. p. 2358; Gaz. vol. 153; p. 408.

Cox, Leon T., Columbia, Tenn. Cattle-guard. No. 956,295; Apr. 26; Sp. p. 5667; Gaz. vol. 153; p. 986.

Cox, Lucien M., near Toppenish, Wash. Fruit-box press. No. 963,521; July 5; Sp. p. 1123; Gaz. vol. 156; p. 171.

Cox Multi-Mailer Company. (See Cox, Sandford C., assignor.)

Cox Multi-Mailer Company. (See Tomlinson, Joseph, assignor.)

Cox, Ralph K. (See Sterling, Walter B., assignor.)

Cox, Robert, *et al.* (See Lutes, Joseph P., assignor.)

Cox, Samuel C., Washington, D. C. Mail-box. No. 960,157; May 31; Sp. p. 8075; Gaz. vol. 154; p. 1358.

Cox, Samuel C., Washington, D. C. Mail-box. No. 961,212; June 14; Sp. p. 1970; Gaz. vol. 155; p. 356.

Cox, Samuel H., assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Centering and driving means for tools. No. 976,346; Nov. 22; Sp. p. 5019; Gaz. vol. 160; p. 852.

Cox, Sandford C., Edison Park, Ill., assignor to Cox Multi-Mailer Company, Augusta, Me. Folding and wrapping machine. No. 979,439; Dec. 27; Sp. p. 4359; Gaz. vol. 161; p. 772.

Cox, Thomas H., Newark, assignor to A. W. Moore, East Orange, N. J. Detachable pad for self-inking stamps. No. 965,874; Aug. 2; Sp. p. 54; Gaz. vol. 157; p. 11.

Cox, Walter, and P. R. Peterson, Provo, Utah. Transom-holder. No. 959,843; May 31; Sp. p. 7387; Gaz. vol. 154; p. 1251.

Cox, William, Toronto, Ontario, Canada. Lock. No. 957,938; May 17; Sp. p. 3067; Gaz. vol. 154; p. 550.

Coy, Hans A. E., New York, N. Y. Adjustable level. No. 971,360; Sept. 27; Sp. p. 4708; Gaz. vol. 158; p. 822.

Coyle, Andrew M., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Multiple hoisting apparatus. No. 954,022; Apr. 5; Sp. p. 667; Gaz. vol. 153; p. 119.

Coyle, Andrew M., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Plunger-equalizer. No. 955,852; Apr. 26; Sp. p. 4680; Gaz. vol. 153; p. 832.

Coyle, Andrew M., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Stop-motion apparatus for hoists. No. 959,998; May 31; Sp. p. 7744; Gaz. vol. 154; p. 1305.

Coyle, Andrew M., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Curtain-hoisting apparatus. No. 959,999; May 31; Sp. p. 7750; Gaz. vol. 154; p. 1305.

Coyle, Andrew M., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Multiple drop-hoist system of circuits. No. 965,442; July 26; Sp. p. 5273; Gaz. vol. 156; p. 903.

Coyle, Andrew M., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Motor control. No. 974,238; Nov. 1; Sp. p. 348; Gaz. vol. 160; p. 50.

Coyle, Carrie, *et al.* (See Dawson, Artemas L., assignor.)

Coyle, Clarence D., Youngstown, Ohio. Trolley for electric railways. No. 960,829; June 7; Sp. p. 1197; Gaz. vol. 155; p. 199.

Coyle, Frank J., Kansas City, Mo. Gas-burning attachment for furnaces. No. 948,133; Feb. 1; Sp. p. 726; Gaz. vol. 151; p. 119.

Coyle, John, assignor to Continental Can Co., Baltimore, Md. Can-soldering machine. No. 962,944; June 28; Sp. p. 5672; Gaz. vol. 155; p. 994.

Coyle, John, assignor to Continental Can Company, Baltimore, Md. Can-soldering machine. No. 962,945; June 28; Sp. p. 5675; Gaz. vol. 155; p. 994.

Coyle, Thomas B., Ashley, Pa. Safety-valve for air-brakes. No. 967,731; Aug. 16; Sp. p. 4024; Gaz. vol. 157; p. 690.

Coyne, Anthony, Hartranft, Tenn., assignor of one-half to W. A. Owens, Roda, Va. Alarm. No. 948,848; Feb. 8; Sp. p. 2265; Gaz. vol. 151; p. 384.

Coyne, James J., and D. R. Llewellyn, Shamokin, Pa. Oil-bushing and packing-ring. No. 968,132; Aug. 23; Sp. p. 4883; Gaz. vol. 157; p. 847.

Cozine, Victor E., Gloversville, N. Y. Time-controlled draft-regulator. No. 974,361; Nov. 1; Sp. p. 650; Gaz. vol. 160; p. 97.

Cozzens, James J., East Orange, C. F. Estwick, Jersey City, and G. S. Tiffany, Summit, N. J., assignors to The Kinsman Block System Company. Railway-signal. No. 974,362; Nov. 1; Sp. p. 652; Gaz. vol. 160; p. 97.

Crabb, James N. (See Kane and Crabb.)

Crabb, Roy W. H., Battle Creek, Mich. Apparatus for use in making candy. No. 972,511; Oct. 11; Sp. p. 2163; Gaz. vol. 159; p. 375.

Crabbe, Edward, Seattle, Wash. Insulated hanger. No. 973,409; Oct. 18; Sp. p. 4185; Gaz. vol. 159; p. 713.

Crabbs, Joseph T., Brooklyn, N. Y. Apparatus for tabulating the passenger traffic on car-lines. No. 959,313; May 24; Sp. p. 6257; Gaz. vol. 154; p. 1047.

Crabill, Pearl P. (See Turner and Crabill.)

Crabtree, Allen E., Oak Ridge, La. Insect-catcher. No. 967,883; Aug. 23; Sp. p. 4329; Gaz. vol. 157; p. 764.

Crabtree, Frank S., North Leeds, Me. Door-locking device. No. 975,122; Nov. 8; Sp. p. 2363; Gaz. vol. 160; p. 385.

Crabtree, Fredrick H., and A. G. McGregor, Anaconda, Mont. Machine for fastening paper and the like. No. 961,213; June 14; Sp. p. 1975; Gaz. vol. 155; p. 357.

Crabtree, Perry E., Oakland, Cal. Ticket-case. No. 969,135; Aug. 30; Sp. p. 7011; Gaz. vol. 157; p. 1219.

Cracraft-Leich Electric Co. (See Leich, Oscar M., assignor.)

Cracraft-Leich Electric Co. (See Leich and Pedersen, assignors.)

Cracraft-Leich Electric Company. (See Pedersen, Niels, assignor.)

Craft, Edward B. (See Holmes and Craft.)

Craft, Edward B. (See McQuarrie and Craft.)

Craft, Edward B. (See Wallace and Craft.)

Craft, Edward B., assignor to Western Electric Company, Chicago, Ill. Selector-switch. No. 973,762; Oct. 25; Sp. p. 4927; Gaz. vol. 159; p. 857.

Craft, John D., *et al.* (See Light, Samuel E., assignor.)

Cragin, George N., Kenmore, N. Y., assignor to Clifton Manufacturing Company, Boston, Mass. Pipe-cleaner. No. 949,622; Feb. 15; Sp. p. 3842; Gaz. vol. 151; p. 670.

Crago, Felix H., Townsend, Mont. Current-motor. No. 951,525; Mar. 8; Sp. p. 2162; Gaz. vol. 152; p. 375.

Crago, Felix H., Townsend, Mont. Current-motor. No. 973,004; Oct. 18; Sp. p. 3298; Gaz. vol. 159; p. 573.

Craggs, Emma I. B. (See Lilliehöök, Carl J. F. M., assignor.)

Craig, Andrew P., Toronto, Ontario, Canada. Metal-reinforced box. No. 965,875; Aug. 2; Sp. p. 55; Gaz. vol. 157; p. 11.

Craig, Charles F., Coal City, Ind. Carpet-fastening. No. 955,853; Apr. 26; Sp. p. 4686; Gaz. vol. 153; p. 833.

Craig, Charley J., Lathrop, Mo. Resilient wheel. No. 951,802; Mar. 15; Sp. p. 2731; Gaz. vol. 152; p. 499.

Craig, David, Melrose, Mass. Cock. No. 974,027; Oct. 25; Sp. p. 5482; Gaz. vol. 159; p. 950.

Craig, David, Melrose, Mass. Faucet. No. 974,028; Oct. 25; Sp. p. 5485; Gaz. vol. 159; p. 951.

Craig, David, Melrose, Mass., assignor to The David Craig Company. Reinforcement screw-bore. No. 977,709; Dec. 6; Sp. p. 655; Gaz. vol. 161; p. 100.

Craig, David, Melrose, Mass., assignor to The David Craig Company. Means for securing bolts in bodies of hardened plastic material. No. 977,710; Dec. 6; Sp. p. 656; Gaz. vol. 161; p. 100.

Craig, Edward E., Kansas City, Mo. Electrical indicator. No. 972,682; Oct. 11; Sp. p. 2546; Gaz. vol. 159; p. 434.

Craig, Harrie L. (See Huling and Craig.)

Craig, Parley W., assignor of one-half to L. E. Baumgarten, Ensley, Ala. Reducing-wheel for steam-engine indicators. No. 945,703; Jan. 4; Sp. p. 1483; Gaz. vol. 150; p. 232.

Craig, Robert B., and A. Coffman, assignors to The Automatic Vending Machines Company, Kansas City, Mo. Ribbon-feeding mechanism. No. 964,851; July 19; Sp p. 4049; Gaz. vol. 156; p. 674.

Craig, Robert B., and A. Coffman, assignors to Automatic Vending Machines Company, Kansas City, Mo. Coin-controlled mechanism. No. 967,332; Aug. 16; Sp. p. 3210; Gaz. vol. 157; p. 556.

Craig, Robert B., and A. Coffman, Dayton, Ohio, assignors to The Automatic Vending Machines Company, Kansas City, Mo. Coin-controlled mechanism. No. 973,763; Oct. 25; Sp. p. 4931; Gaz. vol. 159; p. 858.

Craig, Sanders, San Diego, Cal. Fifth-wheel. No. 961,844; June 21; Sp. p. 3327; Gaz. vol. 155; p. 592.

Craig, St. George, Clarksville, Tenn. Pocket-clasp for papers. No. 951,178; Mar. 8; Sp. p. 1446; Gaz. vol. 152; p. 262.

Craig, St. George, Clarksville, Tenn. Biscuit-cutter. No. 965,991; Aug. 2; Sp. p. 310; Gaz. vol. 157; p. 51.

Craig, William G., Marshalltown, and A. R. Ramsdell, Toledo, Iowa. Door for grain-cars. No. 969,604; Sept. 6; Sp. p. 974; Gaz. vol. 158; p. 154.

Craige, Edmund T., Philadelphia, Pa. Necktie-holder. No. 973,005; Oct. 18; Sp. p. 3300; Gaz. vol. 159; p. 573.

Craigue, Charles H., Berlin, N. H. Digester and the like. No. 959,314; May 24; Sp. p. 6260; Gaz. vol. 154; p. 1048.

Crain, Benjamin. (See Crain, Rollie and B.)

Crain, Rollie and B., Marion, Ill. Self-feeder and band-cutter for threshing-machines. No. 977,599; Dec. 6; Sp. p. 424; Gaz. vol. 161; p. 62.

Crall, Sarah E., Bangor, Mich. Milk-pail. No. 963,873; July 12; Sp. p. 1899; Gaz. vol. 156; p. 312.

Cram, Alonzo W., and W. A. Claridge, Haverhill, Mass. Water-cooler. No. 979,440; Dec. 27; Sp. p. 4364; Gaz. vol. 161; p. 772.

Cram, George M., Portland, Me. Dish-washing machine. No. 954,615; Apr. 12; Sp. p. 1964; Gaz. vol. 153; p. 348.

Cramer, Bertha S., Minneapolis, Minn. Machine attachment for sewing corded tucks. No. 955,322; Apr. 19; Sp. p. 3508; Gaz. vol. 153; p. 622.

Cramer, Ernest A., Wichita, Kans. Fluid-indicator. No. 954,423; Apr. 12; Sp. p. 1537; Gaz. vol. 153; p. 282.

Cramer, Gustav. (See Wallace and Cramer.)

Cramer, James H. (See McHill, William R., assignor.)

Cramer, John L., Crystal, Mich. Babbitting worn vehicle-spindles. No. 980,071; Dec. 27; Sp. p. 5736; Gaz. vol. 161; p. 986.

Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C., said Hodge assignor to said Cramer. Hygrometer for regulating humidifying and heating systems. No. 956,296; Apr. 26; Sp. p. 5669; Gaz. vol. 153; p. 987.

Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C.; said Hodge assignor to said Cramer. Air-conditioning apparatus. No. 960,830; June 7; Sp. p. 1198; Gaz. vol. 155; p. 199.

Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C.; said Hodge assignor to said Cramer. Hygrometer for regulating humidifying and heating systems. No. 968,133; Aug. 23; Sp. p. 4884; Gaz. vol. 157; p. 848.

Cramer, William H., Ottawa, Kans. Lawn-mower reel. No. 980,072; Dec. 27; Sp. p. 5737; Gaz. vol. 161; p. 986.

Cramer, William L., Brooklyn, N. Y. Boat-propelling mechanism. No. 977,169; Nov. 29; Sp. p. 6845; Gaz. vol. 160; p. 1162.

Cramp, George B., Duquesne, Pa. Electric vacuum milking-machine. No. 952,978; Mar. 22; Sp. p. 5138; Gaz. vol. 152; p. 923.

Cramp, Joseph C., Philadelphia, Pa. Compound fish-plate for rail-joints. No. 965,568; July 26; Sp. p. 5573; Gaz. vol. 156; p. 948.

Cramp, Richard, East Ham, assignor to Cramp's Patent Reversible Turbine, Limited, London, England. Reversible turbine. No. 971,730; Oct. 4; Sp. p. 467; Gaz. vol. 159; p. 80.

Cramp's Patent Reversible Turbine. (See Cramp, Richard, assignor.)

Crandall, Albert B., Red Wing, Minn. Thumb-sucking preventer. No. 969,942; Sept. 13; Sp. p. 1727; Gaz. vol. 158; p. 296.

Crandall, Arthur F., Beresford, S. D. Bed for invalids. No. 972,100; Oct. 4; Sp. p. 1264; Gaz. vol. 159; p. 214.

Crandall, Arthur F., assignor of one-half to A. M. Strand, Beresford, S. D. Bed. No. 972,099; Oct. 4; Sp. p. 1261; Gaz. vol. 159; p. 214.

Crandall, Charles F., Ilion, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. (Reissue.) No. 13,185; Dec. 27; Sp. p. 6004; Gaz. vol. 161; p. 1022.

Crandall, Frank A., Chicago, Ill. Composition of matter. No. 949,061; Feb. 15; Sp. p. 2703; Gaz. vol. 151; p. 481.

Crandall, Herbert E., Bradford, Pa. Razor-stropping device. No. 961,105; June 14; Sp. p. 1751; Gaz. vol. 155; p. 318.

Crandall, William F., assignor of one-half to V. H. Hendricks, Jasper, Mo. Portable fruit-displayer. No. 977,071; Nov. 29; Sp. p. 6613; Gaz. vol. 160; p. 1127.

Crandell, George T., Leavenworth, Kans. Curtain for berths. No. 973,006; Oct. 18; Sp. p. 3301; Gaz. vol. 159; p. 574.

Crandon, Joseph B., North Walpole, N. H., assignor to Crandon Manufacturing Company, Bellows Falls, Vt. Damper-regulating apparatus. No. 965,569; July 26; Sp. p. 5576; Gaz. vol. 156; p. 949.

Crandon Manufacturing Company. (See Crandon, Joseph B., assignor.)

Crane, Arthur, Berkeley, Cal. Airship. No. 947,802; Feb. 1; Sp. p. 47; Gaz. vol. 151; p. 10.

Crane, Charles E., Seattle, Wash. Car view-box. No. 951,755; Mar. 8; Sp. p. 2623; Gaz. vol. 152; p. 453.

Crane, Charles M., Canton, Ohio. Razor-blade holder. No. 965,690; July 26; Sp. p. 5830; Gaz. vol. 156; p. 991.

Crane Company. (See Olson, Charles A., assignor.)

Crane, Edward B., California, Mo. Denture. No. 956,843; May 3; Sp. p. 747; Gaz. vol. 154; p. 118.

Crane, Edward M., Hardwick, Vt. Collar attachment. No. 970,891; Sept. 20; Sp. p. 3755; Gaz. vol. 158; p. 641.

Crane, Frank M., South Orange, N. J. Treating ulcerated teeth. No. 961,287; June 14; Sp. p. 2135; Gaz. vol. 155; p. 383.

Crane, Frank S. (See Mooney and Crane.)

Crane, Fred J., Wilmington, Ohio. Automatic cut-off and filter. No. 959,315; May 24; Sp. p. 6263; Gaz. vol. 154; p. 1048.

Crane, James C. A., Denison, Tex. Conductor's train-book. No. 954,853; Apr. 12; Sp. p. 2534; Gaz. vol. 153; p. 432.

Crane, James L., *et al.* (See Bigby, Colquitt H., assignor.)

Crane, John, Chicago, Ill. Packing. No. 956,042; Apr. 26; Sp. p. 5092; Gaz. vol. 153; p. 899.

Crane, Joseph, West Orange, N. J. Toy. No. 947,035; Jan. 18; Sp. p. 4522; Gaz. vol. 150; p. 745.

Crane, Leslie, assignor of one-half to F. R. Patch Manufacturing Company, Rutland, Vt. Stone-planing platen. No. 949,316; Feb. 15; Sp. p. 3215; Gaz. vol. 151; p. 567.

Crane, Leslie, assignor of one-half to F. R. Patch Manufacturing Company, Rutland, Vt. Stone-sawing machine. No. 949,317; Feb. 15; Sp. p. 3216; Gaz. vol. 151; p. 567.

Crane, Louis L., New York, N. Y. Flying-machine. No. 960,831; June 7; Sp. p. 1201; Gaz. vol. 155; p. 200.

Crane, Louis L., New York, N. Y. Flying-machine. No. 974,554; Nov. 1; Sp. p. 1104; Gaz. vol. 160; p. 166.

Crane, Nelson H., McIndoe Falls, Vt. Lock. No. 978,273; Dec. 13; Sp. p. 1862; Gaz. vol. 161; p. 326.

Crane, Raymond E., Cameron, W. Va. Water-closet cistern. No. 954,934; Apr. 12; Sp. p. 2720; Gaz. vol. 153; p. 460.

Crane, Raymond E., Cameron, W. Va. Manufacture of wall-tanks. No. 958,231; May 17; Sp. p. 3869; Gaz. vol. 154; p. 653.

Crane, Raymond E., Cameron, W. Va. Manufacture of earthenware lavatories. No. 961,214; June 14; Sp. p. 1977; Gaz. vol. 155; p. 357.

Crane, Raymond E., Cameron, W. Va. Push-lever for water-closet tanks. No. 977,937; Dec. 6; Sp. p. 1118; Gaz. vol. 161; p. 179.

Crane, Robert R., Menominee, Mich. Car-step. No. 978,563; Dec. 13; Sp. p. 2494; Gaz. vol. 161; p. 426.

Crane, Thomas S., East Orange, N. J., assignor to McCrum-Howell Company. Apparatus for molding undercut lugs on bath-tubs. No. 949,976; Feb. 22; Sp. p. 4624; Gaz. vol. 151; p. 825.

Crane, Thomas S., East Orange, N. J., assignor to McCrum-Howell Company. Bath-tub-molding apparatus. No. 949,977; Feb. 22; Sp. p. 4626; Gaz. vol. 151; p. 826.

Crane, Walter L., Denver, Colo. Air-compressor. No. 972,163; Oct. 11; Sp. p. 1420; Gaz. vol. 159; p. 255.

Crane, Wilbur H., New York, N. Y. Display-rack. No. 971,493; Sept. 27; Sp. p. 4941; Gaz. vol. 158; p. 865.

Crane, William E., Corinth, W. Va. Funnel. No. 977,372; Nov. 29; Sp. p. 7262; Gaz. vol. 160; p. 1233.

Alphabetical list of patentees—Continued.

Cranford, Joseph H., assignor to Simplex Concrete Piling Company, Washington, D. C. Pile and making the same. No. 969,136; Aug. 30; Sp. p. 7012; Gaz. vol. 157; p. 1219.
Crank, Orlando, Salt Lake City, Utah. Mortising-machine. No. 970,689; Sept. 20; Sp. p. 3321; Gaz. vol. 158; p. 570.
Crank, Richard H. (See Ascue, Elbert, assignor.)
Cranmer, Clarence W., Philadelphia, Pa. Registering-turnstile passenger railway-car. No. 966,657; Aug. 9; Sp. p. 1757; Gaz. vol. 157; p. 299.
Cranmer, Joseph, near Greenville, Mich. Hair-comb. No. 964,494; July 19; Sp. p. 3162; Gaz. vol. 156; p. 550.
Crans, Edward L. (See Maiden, Arthur E., assignor.)
Cranston, Leslie A. (See Huffman, Mike, assignor.)
Crary, Ralph W., Sturgeon Bay, Wis. Savings-bank. No. 956,685; May 3; Sp. p. 388; Gaz. vol. 154; p. 64.
Crates, James, Lorain, Ohio. Skylight and ventilating construction for ships. No. 957,846; May 10; Sp. p. 2842; Gaz. vol. 154; p. 487.
Crates, John W., Marion, Ind., and F. Longbrake, Arlington, Ohio. Gate. No. 958,695; May 17; Sp. p. 4937; Gaz. vol. 154; p. 811.
Craven Engineering Company. (See Craven, James F., assignor.)
Craven, Horace O., Schenectady, N. Y. Carbureter. No. 954,785; Apr. 12; Sp. p. 2360; Gaz. vol. 153; p. 408.
Craven, James F., Pittsburg, Pa. Metal telegraph, trolley, and like pole. No. 948,088; Feb. 1; Sp. p. 648; Gaz. vol. 151; p. 105.
Craven, James F., Pittsburg, Pa. Electric welding. No. 977,711; Dec. 6; Sp. p. 658; Gaz. vol. 161; p. 101.
Craven, James F., assignor to Craven Engineering Company, Pittsburg, Pa. Grease-cup. No. 979,826; Dec. 27; Sp. p. 5219; Gaz. vol. 161; p. 905.
Craven, Macdonough. (See Rutherfurd and Craven.)
Craver, Frank B., Rochester, N. Y. Separator for pneumatic cleaners. No. 946,535; Jan. 18; Sp. p. 3440; Gaz. vol. 150; p. 578.
Crawford, Alexander W., Girard, Ill. Coal-screening apparatus. No. 954,935; Apr. 12; Sp. p. 2721; Gaz. vol. 153; p. 460.
Crawford, Alvin C. (See Dement and Crawford.)
Crawford, C. J. (See Meyer, Albert J., assignor.)
Crawford, Carl H., Chicago, Ill., assignor to Mills Novelty Company. Ticket-dispenser. No. 955,385; Apr. 19; Sp. p. 3655; Gaz. vol. 153; p. 643.
Crawford, Charles W., Cincinnati, Ohio. Driving mechanism. No. 979,441; Dec. 27; Sp. p. 4366; Gaz. vol. 161; p. 773.
Crawford, David A. (See Dale and Crawford.)
Crawford, David F., Pittsburg, Pa. Transfer mechanism. No. 954,500; Apr. 12; Sp. p. 1721; Gaz. vol. 153; p. 309.
Crawford, Francis H., and M. B. Carmody, Columbus, Ohio. Gage for determining the velocity of fluids. No. 945,704; Jan. 4; Sp. p. 1491; Gaz. vol. 150; p. 233.
Crawford, Frank, assignor to Conduit Threading Device Company, Pasadena, Cal. Conduit-threading device. No. 966,799; Aug. 9; Sp. p. 2096; Gaz. vol. 157; p. 348.
Crawford-Frost, William A., Baltimore, Md. House-cooling and lawn-sprinkling device. No. 964,464; July 12; Sp. p. 3084; Gaz. vol. 156; p. 507.
Crawford, George S., assignor of one-half to R. R. Reed, McKeesport, Pa. Puncture-proof guard for pneumatic tires. No. 978,274; Dec. 13; Sp. p. 1864; Gaz. vol. 161; p. 327.
Crawford, George W., Perth Amboy, N. J., assignor to The Safety Tire Company. Wheel-tire. No. 955,053; Apr. 12; Sp. p. 2947; Gaz. vol. 153; p. 499.
Crawford, Harry M., assignor to W. Stetson, trustee, Boston, Mass. Window-fastener. No. 977,854; Dec. 6; Sp. p. 945; Gaz. vol. 161; p. 149.
Crawford, James, assignor of one-half to W. H. Baker, Boston, Mass. Combination-vise. No. 952,787; Mar. 22; Sp. p. 4763; Gaz. vol. 152; p. 859.
Crawford, James M., Bentonville, Ind. Indicator for perpetual calendars. No. 979,655; Dec. 27; Sp. p. 4835; Gaz. vol. 161; p. 848.
Crawford, John L., Emory Gap, Tenn. Motor-boat. No. 979,383; Dec. 20; Sp. p. 4237; Gaz. vol. 161; p. 730.
Crawford, Joseph T., Philadelphia, Pa. Metallic roofing for cars. No. 945,918; Jan. 11; Sp. p. 2033; Gaz. vol. 150; p. 338.
Crawford, Martin V., Blaine, Wash. Fire-alarm. No. 962,552; June 28; Sp. p. 4905; Gaz. vol. 155; p. 859.
Crawford, Nat M., *et al.* (See Morris and Watkins, assignors.)
Crawford, Vinyard O., Fort Smith, Ark. Ironing-table. No. 961,404; June 14; Sp. p. 2379; Gaz. vol. 155; p. 421.
Crawford, William C. (See Guyer, Clinton, assignor.)
Crawley, Theodore, Greencastle, Ind. Lawn-mower. No. 964,617; July 19; Sp. p. 3472; Gaz. vol. 156; p. 593.
Creager, William M., and T. C. Harry, Dallas, Tex. Sluice-gate. No. 975,400; Nov. 15; Sp. p. 2972; Gaz. vol. 160; p. 505.
Creahan, John T. (See MacConnell, Phineas J., assignor.)
Creamery Package Manufacturing Company. (See Penn, William E., assignor.)
Creasey, Samuel E., Sanford, Me. Conductor's report-book. No. 959,470; May 31; Sp. p. 6591; Gaz. vol. 154; p. 1124.
Creasey, Samuel E., assignor of one-half to J. V. Tucker, Sanford, Me. Game apparatus. No. 971,024; Sept. 27; Sp. p. 4004; Gaz. vol. 158; p. 712.
Crecelius, Emil R., Providence, assignor to A. C. Messler, Pawtucket, R. I. Pin. No. 950,894; Mar. 1; Sp. p. 906; Gaz. vol. 152; p. 145.
Créchriou, Yves M., Monterey, Cal. Automobile-fender. No. 970,892; Sept. 20; Sp. p. 3757; Gaz. vol. 158; p. 641.
Cree, James S., Glasgow, Scotland. Hood for motor or other vehicles. No. 960,832; June 7; Sp. p. 1202; Gaz. vol. 155; p. 200.
Cree, James S., Glasgow, Scotland. Motor-vehicle and like hood. No. 961,687; June 14; Sp. p. 2981; Gaz. vol. 155; p. 516.
Creelman, Frank, New York, N. Y., assignor to The Willson Carbide Works Company of St. Catharines, Limited, St. Catherines, Canada. Apparatus for electric smelting. No. 978,137; Dec. 13; Sp. p. 1567; Gaz. vol. 161; p. 278.
Cregg, James P. (See Anthony and Cregg.)
Crego, Roy D., assignor of one-half to I. Unger, Iron Mountain, Mich. Merchandise-display rack. No. 949,393; Feb. 15; Sp. p. 3404; Gaz. vol. 151; p. 594.
Crehore, Albert C., Yonkers, assignor to Typewriting Telegraph Company, New York, N. Y. Printing-telegraph. No. 969,527; Sept. 6; Sp. p. 801; Gaz. vol. 158; p. 126.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Electrolytic condenser. No. 974,029; Oct. 25; Sp. p. 5487; Gaz. vol. 159; p. 951.
Creighton, H. H., *et al.* (See Rapp, William J., assignor.)
Creighton, Nelson B., New York, N. Y. Fuse-valve. No. 973,260; Oct. 18; Sp. p. 3864; Gaz. vol. 159; p. 661.
Cremean, William F., Logan, Ohio. Supporting-saddle for running-boards. No. 956,945; May 3; Sp. p. 961; Gaz. vol. 154; p. 153.
Crenshaw, John C., Riverton, Ala. Excavating-bucket. No. 954,936; Apr. 12; Sp. p. 2722; Gaz. vol. 153; p. 460.
Crenshaw, John C., Riverton, Ala. Brake-band. No. 966,312; Aug. 2; Sp. p. 980; Gaz. vol. 157; p. 157.
Crenshaw, John C., Augusta, Ga. Excavating-bucket. No. 966,313; Aug. 2; Sp. p. 982; Gaz. vol. 157; p. 157.
Crenshaw, Josiah R., Starrsville, Ga. Plow-foot. No. 945,020; Jan. 4; Sp. p. 20; Gaz. vol. 150; p. 6.
Crepar, Thomas M., Fargo, N. D. Flying-machine. No. 963,522; July 5; Sp. p. 1124; Gaz. vol. 156; p. 171.
Crepelle-Fontaine, Charles, La Madeleine lez Lille, France. Apparatus for recovering ether and alcohol. No. 951,067; Mar. 1; Sp. p. 1222; Gaz. vol. 152; p. 201.
Crescent Feather Company. (See Mullen, Charles H., assignor.)
Crescent Machine Company, The. (See Halverstadt, Leroy J., assignor.)
Crescent Manufacturing Company. (See Tiedt, Henry J., assignor.)
Crescenzi, Richard J., Fort Myers, Fla. Splice-bar. No. 964,398; July 12; Sp. p. 2945; Gaz. vol. 156; p. 487.
Cressman, Beryl H., Philadelphia, Pa. Apple-corer. No. 953,194; Mar. 29; Sp. p. 5632; Gaz. vol. 152; p. 1023.
Cresswell, Milton B., Des Moines, Iowa. Water-purifier. No. 950,439; Feb. 22; Sp. p. 5603; Gaz. vol. 151; p. 982.
Creswell, William H., Los Angeles, Cal. Oil-burner. No. 948,921; Feb. 8; Sp. p. 2397; Gaz. vol. 151; p. 408.
Cretini, Francis I. (See Mollere, Mederic C., assignor.)
Creveling, John L., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Electric switch. No. 963,996; July 12; Sp. p. 2153; Gaz. vol. 156; p. 352.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Hose-coupling. No. 972,829; Oct. 18; Sp. p. 2861; Gaz. vol. 159; p. 510.
Crews, Crissey J. (See Pratte, Charles A., assignor.)
Crewson, Charles C. (See Crewson, Evander A. and C. C.)
Crewson, Evander A., Versailles, and C. C. Crewson, Kansas City, Mo. Door latch and lock mechanism. No. 978,275; Dec. 13; Sp. p. 1866; Gaz. vol. 161; p. 327.
Crichton, Arthur M. (See Fogal, Crichton, and Mowry.)
Crick, Owen J. P., Toronto, Ontario, Canada. Forming-tool. No. 966,658; Aug. 9; Sp. p. 1758; Gaz. vol. 157; p. 300.
Crider, George M., *et al.* (See Shrode, John L., assignor.)
Crider, George M., Marion, Ky. Tension device for shears. No. 951,236; Mar. 8; Sp. p. 1557; Gaz. vol. 152; p. 280.
Crider, George M., Marion, Ky. Type-writer-ribbon box. No. 958,232; May 17; Sp. p. 3872; Gaz. vol. 154; p. 654.
Criess, Charles, Stroud, Okla. Vehicle-axle. No. 955,251; Apr. 19; Sp. p. 3364; Gaz. vol. 153; p. 599.
Crigger, Henry C., Johnson City, Tenn., assignor of one-third to D. O. Simpson, Kenova, W. Va. Car-coupling. No. 977,373; Nov. 29; Sp. p. 7264; Gaz. vol. 160; p. 1233.
Crim, Henry F., and W. C. Loy, assignors to O. B. Smith and M. L. Yuster, Rochester, Ind. Trunk and suit-case lock. No. 954,854; Apr. 12; Sp. p. 2536; Gaz. vol. 153; p. 433.
Criner, Harry J., Burlington, Iowa. Exhaust-valve regulator. No. 953,460; Mar. 29; Sp. p. 6203; Gaz. vol. 152; p. 1112.
Crippen, Herbert O., Sanford, Fla. Spike clamp and fastener. No. 950,841; Mar. 1; Sp. p. 813; Gaz. vol. 152; p. 130.

Crippen, Herbert O., Sanford, Fla. Spike-holder. No. 953,987; Apr. 5; Sp. p. 604; Gaz. vol. 153; p. 108.
Crippen, Herbert O., Sanford, Fla. Toothed spike. No. 963,280; July 5; Sp. p. 647; Gaz. vol. 156; p. 90.
Crippen, Walter R., assignor to Emerson Piano Company, Boston, Mass. Automatic player. No. 977,072; Nov. 29; Sp. p. 6614; Gaz. vol. 160; p. 1128.
Cripps, Alfred G., assignor to Prudential Heating Company, Akron, Ohio. Heating-boiler. No. 969,137; Aug. 30; Sp. p. 7014; Gaz. vol. 157; p. 1220.
Cripps, Alfred G., assignor to Prudential Heating Company, Akron, Ohio. Heating-boiler. No. 977,786; Dec. 6; Sp. p. 809; Gaz. vol. 161; p. 125.
Crismon, John L., Eagle, Colo. Ditching-machine. No. 979,442; Dec. 27; Sp. p. 4368; Gaz. vol. 161; p. 773.
Crismore, Joseph A., Berwyn, Ill. Wood-smoothing machine. No. 963,523; July 5; Sp. p. 1129; Gaz. vol. 156; p. 171.
Crisp, James F., *et al.* (See Louden, Arthur F. D., assignor.)
Crist, Charles L. (See Hammer and Crist.)
Crist, John. (See Griffith, Stanton, assignor.)
Crist, Mark B., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Ignition means for internal-combustion engines. No. 975,512; Nov. 15; Sp. p. 3200; Gaz. vol. 160; p. 545.
Critchlow, Edward C., Grove City, Pa. Fly-wheel. No. 960,277; June 7; Sp. p. 76; Gaz. vol. 155; p. 16.
Crites, Vernon H., Huntington, W. Va. Hoisting-bucket. No. 956,946; May 3; Sp. p. 962; Gaz. vol. 154; p. 154.
Crocco, Gaetano A., and O. Ricaldoni, Rome, Italy. Car suspension for airships. No. 975,330; Nov. 8; Sp. p. 2818; Gaz. vol. 160; p. 456.
Crocker, Arthur T., Schenectady, N. Y., assignor to The General Electric Company. Controller. No. 948,444; Feb. 8; Sp. p. 1395; Gaz. vol. 151; p. 248.
Crocker Chair Company. (See Knilans, William A., assignor.)
Crocker, Edwin P., and A B Payne, St. Louis, Mo.; said Crocker assignor to said Payne. Panoramic stereoscope and stereograph. No. 946,339; Jan. 11; Sp. p. 2921; Gaz. vol. 150; p. 485.
Crocker, Ernest B. (See Blanchard and Crocker.)
Crocker, Ernest B. (See Blanchard, Crocker, and Darling.)
Crocker, Francis B. (See Gin, Gustave, assignor.)
Crocker, Fred J. (See Whitehead and Crocker.)
Crocker, John M., and F. T. Tappan, Coldwater, Mich. Building-block tie. No. 952,878; Mar. 22; Sp. p. 4943; Gaz. vol. 152; p. 890.
Crocker, Samuel, Mustang, Okla. Adjustable frame for table-screens. No. 952,879; Mar. 22; Sp. p. 4944; Gaz. vol. 152; p. 890.
Crocowaner, Morris. (See Gruber, Joseph, assignor.)
Croft, Robert D. (See Saunders and Croft.)
Crofut, Frank V., assignor to The Sterling Co., Derby, Conn. Mechanically-operated piano. No. 964,955; July 19; Sp. p. 4251; Gaz. vol. 156; p. 710.
Crofut, Ulysses E., Jr., Scranton, Pa. Extension car-step. No. 948,874; Feb. 8; Sp. p. 2306; Gaz. vol. 151; p. 392.
Crofutt, Willis S., assignor of one-half to J. C. Doody, New Haven, Conn. Spike. No. 956,844; May 3; Sp. p. 748; Gaz. vol. 154; p. 119.
Croker, Norman S., *et al.* (See Fuller, Charles, assignor.)
Cromleigh, Rolland F., assignor of one-third to C. C. Bashore, Carlisle, Pa. Fastener for floor-coverings. No. 946,536; Jan. 18; Sp. p. 3441; Gaz. vol. 150; p. 578.
Cromley, Charles D., Alameda, assignor to Automatic Packing Company, San Francisco, Cal. Bagging-machine. No. 947,096; Jan. 18; Sp. p. 4630; Gaz. vol. 150; p. 764.
Cromley, Charles D., Alameda, assignor to Automatic Packing Company, San Francisco, Cal. Grain measuring and weighing machine. No. 948,289; Feb. 1; Sp. p. 1041; Gaz. vol. 151; p. 171.
Cromley, Charles D., Alameda, assignor to Automatic Packing Company, San Francisco, Cal. Grain-measuring machine. No. 948,290; Feb. 1; Sp. p. 1046; Gaz. vol. 151; p. 171.
Cromley, Charles D., Alameda, assignor to Automatic Packing Company, San Francisco, Cal. Bag-sewing machine. No. 978,850; Dec. 20; Sp. p. 3063; Gaz. vol. 161; p. 545.
Crommett, Melvin D., Spicer, Minn. Stone-puller. No. 966,528; Aug. 9; Sp. p. 1496; Gaz. vol. 157; p. 256.
Crompton & Knowles Loom Works. (See Ashton, Francis E., assignor.)
Crompton & Knowles Loom Works. (See Buckler, James, assignor.)
Crompton & Knowles Loom Works. (See Chevrette, Augustin J., assignor.)
Crompton & Knowles Loom Works. (See Clark, John A., assignor.)
Crompton & Knowles Loom Works. (See Cyr, Joseph T., assignor.)
Crompton & Knowles Loom Works. (See Deering, Henry, assignor.)
Crompton & Knowles Loom Works. (See Goodwin, James E., assignor.)
Crompton & Knowles Loom Works. (See Gordon, Albert A., assignor.)
Crompton & Knowles Loom Works. (See Gordon, Albert A., Jr., assignor.)
Crompton & Knowles Loom Works. (See Holcomb, Lemuel H., assignor.)
Crompton & Knowles Loom Works. (See Hollingworth, Edward, assignor.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Holmes and Valentine, assignors.)
Crompton & Knowles Loom Works. (See Jenckes, Lawrence B., assignor.)
Crompton & Knowles Loom Works. (See Labonte, Peter, assignor.)
Crompton & Knowles Loom Works. (See Le Doux and Ryon, assignors.)
Crompton & Knowles Loom Works. (See McGuiness, Benjamin F., assignor.)
Crompton & Knowles Loom Works. (See Regan, John, assignor.)
Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
Crompton & Knowles Loom Works. (See Selley, William H., assignor.)
Crompton & Knowles Loom Works. (See Wattie, William, assignor.)
Crompton & Knowles Loom Works. (See Whitmore, Fred A., assignor.)
Crompton & Knowles Loom Works. (See Wyman, Horace, assignor.)
Cronan, Clifford B., Shelburne Falls, Mass. Flying-machine. No. 965,622; July 26; Sp. p. 5690; Gaz. vol. 156; p. 967.
Cronholm, Frederick N., Naches, Wash. Spoon-gage. No. 969,845; Sept. 13; Sp. p. 1530; Gaz. vol. 158; p. 262.
Cronholm, Frederick N., Naches, Wash. Pipe-coupling. No. 969,943; Sept. 13; Sp. p. 1728; Gaz. vol. 158; p. 296.
Cronholm, Frederick N., Naches, Wash. Dumping-wagon. No. 970,893; Sept. 20; Sp. p. 3758; Gaz. vol. 158; p. 641.
Cronin, Eli, Norton, N. Mex. Hoof-paring machine. No. 955,252; Apr. 19; Sp. p. 3366; Gaz. vol. 153; p. 599.
Cronin, Eli, Norton, N. Mex. Metallic tie. No. 956,628; May 3; Sp. p. 260; Gaz. vol. 154; p. 43.
Cronk, George E., Sayre, Okla. Camping apparatus. No. 955,140; Apr. 19; Sp. p. 3118; Gaz. vol. 153; p. 559.
Cronk, Harrison T., New York, N. Y. Appliance for railway-cars and other conveyances. No. 964,217; July 12; Sp. p. 2586; Gaz. vol. 156; p. 426.
Cronk, Henry S., New York, N. Y. Non-refillable bottle. No. 951,939; Mar. 15; Sp. p. 3014; Gaz. vol. 152; p. 546.
Cronk, William, Montour Falls, N. Y. Tang No. 972,753; Oct. 11; Sp. p. 2700; Gaz. vol. 159; p. 459.
Cronk, William A., Burwell, Nebr. Paster and paper-hanger. No. 947,659; Jan. 25; Sp. p. 5916; Gaz. vol. 150; p. 982.
Cronwell, Anthony, Sterling Run, Pa. Mining-measure. No. 975,213; Nov. 8; Sp. p. 2585; Gaz. vol. 160; p. 417.
Crook, Charles M., Chicago, Ill. Time-stamp. No. 966,384; Aug. 2; Sp. p. 1115; Gaz. vol. 157; p. 180.
Crook, David C., Minooka, Ill. Hay-stacker. No. 954,171; Apr. 5; Sp. p. 1011; Gaz. vol. 153; p. 171.
Crook, James M., Selma, Ala. Cotton-thinning plow. No. 963,689; July 5; Sp. p. 1441; Gaz. vol. 156; p. 226.
Crooks, John H., *et al.* (See Edwards, Charles B., assignor.)
Cropp, Andrew J., Chicago, Ill. Mixing-machine. No. 949,698; Feb. 15; Sp. p. 3976; Gaz. vol. 151; p. 693.
Cropp, Andrew J., assignor to Cropp Concrete Machinery Company, Chicago, Ill. Mixing-machine. No. 947,196; Jan. 18; Sp. p. 4820; Gaz. vol. 150; p. 795.
Cropp Concrete Machinery Company. (See Cropp, Andrew J., assignor.)
Crosby, Edward A., Minneapolis, Minn. Numbering device. No. 963,120; July 5; Sp. p. 248; Gaz. vol. 156; p. 33.
Crosby, Edward A., Minneapolis, Minn. Pen and pencil holder. No. 976,437; Nov. 22; Sp. p. 5219; Gaz. vol. 160; p. 886.
Crosby, Jacob E., assignor of one-half to C. H. Lannert, Springfield, Ohio. Machine for turning gloves, mittens, and the like. No. 978,434; Dec. 13; Sp. p. 2194; Gaz. vol. 161; p. 380.
Crosby, James K., Glendale, Wash. Artificial bait. No. 962,319; June 21; Sp. p. 4369; Gaz. vol. 155; p. 754.
Crosby, Nehemiah B., Bridgeport, Conn. Combined shade and pole bracket. No. 962,007; June 21; Sp. p. 3675; Gaz. vol. 155; p. 646.
Crosby, Oliver, assignor to American Hoist & Derrick Co., St. Paul, Minn. Forward and rear drive for car-trucks. No. 962,320; June 21; Sp. p. 4370; Gaz. vol. 155; p. 754.
Crosby, Raymond A., and S. McGooden, Wauneta, Nebr. Door-guide. No. 955,502; Apr. 19; Sp. p. 3895; Gaz. vol. 153; p. 684.
Crosby Steam Gage and Valve Company. (See Phillips, Arthur P., assignor.)
Crosby, William H., Pittsburg, Pa. Carpenter's plane. No. 978,360; Dec. 13; Sp. p. 2038; Gaz. vol. 161; p. 355.
Crose, Mabel O. (See Murphy, Roy E., assignor.)
Crosgrove, Cyrus J., Winona, Minn. Purse. No. 945,705; Jan. 4; Sp. p. 1494; Gaz. vol. 150; p. 233.

Alphabetical list of patentees—Continued.

Cross, Andrew J., New York, N. Y. Skiascope. No. 978,276; Dec. 13; Sp. p. 1868; Gaz. vol. 161; p. 328.
Cross, Andrew J., New York, N. Y. Eye-testing device. No. 978,277; Dec. 13; Sp. p. 1869; Gaz. vol. 161; p. 328.
Cross, Anson K., Winthrop, Mass. Refrigerator. No. 951,058; Mar. 1; Sp. p. 1202; Gaz. vol. 152; p. 197.
Cross, Frank L., Detroit, Mich. Pressure-regulator for gas plants. No. 958,725; May 24; Sp. p. 5006; Gaz. vol. 154; p. 847.
Cross, Frank L., Detroit, Mich. Volume regulator and indicator. No. 958,726; May 24; Sp. p. 5008; Gaz. vol. 154; p. 848.
Cross, Frank L., Detroit, Mich. Operating recording apparatus in gas-distributing systems. No. 966,314; Aug. 2; Sp. p. 984; Gaz. vol. 157; p. 158.
Cross, Frank L., Detroit, Mich. Regulator for gas generating and supply systems. No. 974,555; Nov. 1; Sp. p. 1105; Gaz. vol. 160; p. 167.
Cross, Frank L., Mystic, Conn. Paper-feeding machine. No. 971,975; Oct. 4; Sp. p. 1036; Gaz. vol. 159; p. 173.
Cross, Frank L., Mystic, Conn., assignor to Cross Paper Feeder Company, Boston, Mass. Sheet-feeding machine. No. 957,847; May 10; Sp. p. 2843; Gaz. vol. 154; p. 488.
Cross, Frederick J., assignor to Rochester Stamping Company, Rochester, N. Y. Cuspidor. No. 959,117; May 24; Sp. p. 5862; Gaz. vol. 154; p. 982.
Cross, George F., San Antonio, Tex. Apparatus for molding concrete walls. No. 952,236; Mar. 15; Sp. p. 3575; Gaz. vol. 152; p. 643.
Cross, Jerome A., Fultonville, N. Y. Sling attachment for hay-forks. No. 963,121; July 5; Sp. p. 249; Gaz. vol. 156; p. 33.
Cross Paper Feeder Company. (See Cross, Frank L., assignor.)
Cross, Walter M., Kansas City, Mo. Destruction of garbage and recovery of by-products. No. 956,569; May 3; Sp. p. 129; Gaz. vol. 154; p. 23.
Cross, William H., Dayton, Ohio. Pump construction. No. 968,029; Aug. 23; Sp. p. 4655; Gaz. vol. 157; p. 813.
Crossan, Albert, Lebanon, Oreg. Rein-holder. No. 948,162; Feb. 1; Sp. p. 784; Gaz. vol. 151; p. 129.
Crosse, Andrew F., Johannesburg, Transvaal. Extracting gold and silver from ore-slimes. No. 951,940; Mar. 15; Sp. p. 3015; Gaz. vol. 152; p. 546.
Crossing, Samuel L., New York, N. Y. Self-releasing hose-rack. No. 970,188; Sept. 13; Sp. p. 2229; Gaz. vol. 158; p. 379.
Crossland, George, Watertown, assignor to G. H. Briggs, Amesbury, Mass. Pile fabric. No. 971,527; Oct. 4; Sp. p. 34; Gaz. vol. 159; p. 8.
Crossland, George, Watertown, assignor to G. H. Briggs, Amesbury, Mass. Cutting pile-wire. No. 978,116; Dec. 6; Sp. p. 1496; Gaz. vol. 161; p. 241.
Crossland, William B., De Soto, Mo. Electric switch for incandescent-lamp circuits. No. 960,626; June 7; Sp. p. 796; Gaz. vol. 155; p. 130.
Crossley, Charles C., Port Chester, N. Y. Collapsible core. No. 957,599; May 10; Sp. p. 2331; Gaz. vol. 154; p. 405.
Crossley, James S., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Electric rosette. No. 957,547; May 10; Sp. p. 2244; Gaz. vol. 154; p. 388.
Crossley, James S., assignor to Pass & Seymour, Inc., Solvay, N. Y. Securing means for electric-lamp sockets and the like. No. 971,976; Oct. 4; Sp. p. 1038; Gaz. vol. 159; p. 173.
Crossman, Martin R., Boston, Mass. Tool for applying clips to fountain-pen caps. No. 955,386; Apr. 19; Sp. p. 3660; Gaz. vol. 153; p. 643.
Crossman, Robert W., assignor of one-third to J. E. Walker, Texola, Okla. Animal-poke. No. 964,758; July 19; Sp. p. 3856; Gaz. vol. 156; p. 642.
Crosthwait, John P., Sadieville, Ky. Cigar-cutting match-receptacle. No. 949,524; Feb. 15; Sp. p. 3653; Gaz. vol. 151; p. 636.
Crosthwait, John P., Sadieville, Ky. Permutation-lock. No. 968,328; Aug. 23; Sp. p. 5318; Gaz. vol. 157; p. 916.
Crosthwait, John P., Georgetown, Ky. Mowing-machine. No. 970,019; Sept. 13; Sp. p. 1901; Gaz. vol. 158; p. 323.
Crosthwaite, Walter G., Leeds, England. Furnace. No. 955,387; Apr. 19; Sp. p. 3661; Gaz. vol. 153; p. 644.
Crosthwaite, Walter G., assignor, by mesne assignments, to The United Cigarette Machine Company, Limited, London, England. Mechanical stoker. No. 955,388; Apr. 19; Sp. p. 3664; Gaz. vol. 153; p. 644.
Crosthwaite, Walter G., Leeds, assignor, by mesne assignments, to The United Cigarette Machine Company, Limited, London, England. Furnace of steam-boilers and the like. No. 957,310; May 10; Sp. p. 1756; Gaz. vol. 154; p. 307.
Crothers, James E., South Omaha, Nebr. Collar-fastener. No. 963,747; July 12; Sp. p. 1600; Gaz. vol. 156; p. 269.
Crotser, Lyman S., Petoskey, Mich. Rail-fastener. No. 964,218; July 12; Sp. p. 2588; Gaz. vol. 156; p. 427.
Crotty, Phillip S. (See Eaid and Crotty.)
Crouch, Frank J., Seattle, Wash., assignor of one-half to C. P. Church, Portland, Oreg. Traction-motor. No. 961,756; June 21; Sp. p. 3131; Gaz. vol. 155; p. 564.
Crouch, Lawrence B., Marshes, W. Va. Nut-lock. No. 962,321; June 21; Sp. p. 4372; Gaz. vol. 155; p. 754.
Crouse, Charles W., Thompson, Nebr. Weed-cutter for cultivators. No. 975,214; Nov. 8; Sp. p. 2586; Gaz. vol. 160; p. 417.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crouse-Hinds Company. (See Olley, Raymond H., assignor.)
Crouse-Hinds Company. (See Van Ranst, Samuel B., assignor.)
Crouse, Nessa, Moab, Utah. Safety-stirrup. No. 973,410; Oct. 18; Sp. p. 4185; Gaz. vol. 159; p. 713.
Crow, Henry H. (See Taylor, Harry M., assignor.)
Crow, Laura A., *et al.* (See King, William C., assignor.)
Crow, Thomas A., *et al.* (See King, William C., assignor.)
Crowdus, Walter A., Chicago, Ill. Electromagnetic device. No. 962,129; June 21; Sp. p. 3970; Gaz. vol. 155; p. 690.
Crowe, Alexander, and J. E. Kinzel, Youngstown, Ohio. Tire for vehicles. No. 974,124; Nov. 1; Sp. p. 35; Gaz. vol. 160; p. 9.
Crowe, Joseph F., Valparaiso, Ind. Leaf and rubbish gathering machine. No. 969,138; Aug. 30; Sp. p. 7017; Gaz. vol. 157; p. 1220.
Crowe, Paul L., Jersey City, N. J. Stoker mechanism. No. 962,322; June 21; Sp. p. 4373; Gaz. vol. 155; p. 755.
Crowe, Paul L., Jersey City, N. J. Underfeed stoker. No. 976,047; Nov. 15; Sp. p. 4286; Gaz. vol. 160; p. 727.
Crowe, Paul L., Jersey City, N. J. Underfeed stoker. No. 976,048; Nov. 15; Sp. p. 4288; Gaz. vol. 160; p. 727.
Crowe, Paul L., Jersey City, N. J. Underfeed stoker. No. 976,049; Nov. 15; Sp. p. 4290; Gaz. vol. 160; p. 728.
Crowe, Paul L., Jersey City, N. J., and A. Frankenheim, New York, N. Y.; said Frankenheim assignor to said Crowe. Stoking mechanism. No. 964,399; July 12; Sp. p. 2946; Gaz. vol. 156; p. 487.
Crowell, Henry B., Walthall, Miss. Gate-latch. No. 963,997; July 12; Sp. p. 2156; Gaz. vol. 156; p. 352.
Crowell, Melvin E., Franklin, assignor of one-half to F. F. Chandler, Indianapolis, Ind. Gas-producer. No. 952,237; Mar. 15; Sp. p. 3577; Gaz. vol. 152; p. 643.
Crowell, William J., Jr., Lebanon, Pa. Indicating, recording, and integrating dynamometer. No. 945,757; Jan. 11; Sp. p. 1665; Gaz. vol. 150; p. 280.
Crowl, James F., Fairmont, W. Va. Wrench. No. 946,498; Jan. 11; Sp. p. 3354; Gaz. vol. 150; p. 538.
Crowl, John B. (See Hough and Crowl.)
Crowley, Cornelius J., Burlington, Iowa. Reamer. No. 948,269; Feb. 1; Sp. p. 995; Gaz. vol. 151; p. 164.
Crowley, Frank. (See Farley, Michael H., assignor.)
Crowley, John R., assignor of one-half to N. N. Boyden, Atlanta, Ga. Boiler-flue. No. 977,276; Nov. 29; Sp. p. 7049; Gaz. vol. 160; p. 1199.
Crowley, Joseph N., Toledo, Ohio. Machine for filling and closing bags. No. 949,675; Feb. 15; Sp. p. 3930; Gaz. vol. 151; p. 685.
Crowley, Timothy. (See Foley and Crowley.)
Crowley, William P. (See Nisbett, Robert M., assignor.)
Crown Hat Manfg. Co. (See Golden and Kendall, assignors.)
Crown Optical Company. (See Fisk, Joshua T., assignor.)
Crown, Walter H., Northampton, Mass. Finger-rest for banjos. No. 965,691; July 26; Sp. p. 5832; Gaz. vol. 156; p. 991.
Crowson, Edward J., Holyoke, Mass. Cylinder-drier. No. 979,827; Dec. 27; Sp. p. 5221; Gaz. vol. 161; p. 906.
Crowther, Benjamin A. (See Morgan, Atwater, Crowther, and Ash.)
Crowther, William E., New Brighton, England. Twist-drill-grinding jig. No. 978,851; Dec. 20; Sp. p. 3068; Gaz. vol. 161; p. 545.
Croxton, David T., *et al.* (See Nelson, Alfred C., assignor.)
Croxton, David T., Cleveland, Ohio. Handling slag. No. 959,720; May 31; Sp. p. 7113; Gaz. vol. 154; p. 1208.
Crozier, John M., Minneapolis, Minn. Detachable boiler-flue. No. 972,164; Oct. 11; Sp. p. 1421; Gaz. vol. 159; p. 255.
Crozier, Lester A., Lynn, Mass. Ball-puzzle. No. 977,600; Dec. 6; Sp. p. 429; Gaz. vol. 161; p. 63.
Crozier, Robert C., *et al.* (See Hemphill, Henry B., assignor.)
Crozier, Rufus B. (See Holmes and Crozier.)
Crucible Steel Company of America. (See Johnson, Charles M., assignor.)
Crudginton, James F., assignor to J. L. Carpenter, Bridgeport, Conn. Seal. No. 961,069; June 7; Sp. p. 1666; Gaz. vol. 155; p. 279.
Cruess, Thomas E., Salinas, Cal. Car-brake. No. 947,074; Jan. 18; Sp. p. 4588; Gaz. vol. 150; p. 757.
Cruger, Harry T. (See Fort and Cruger.)
Cruikshank, Everett, Jersey City, N. J., and U. W. Bock, assignors to Farrington & Whitney, New York, N. Y. Top for pepper-boxes and the like. No. 957,037; May 3; Sp. p. 1165; Gaz. vol. 154; p. 185.
Cruikshank, James W., Pittsburg, Pa. Glass-teeming apparatus. No. 956,297; Apr. 26; Sp. p. 5670; Gaz. vol. 153; p. 987.
Cruikshank, John, Shamokin, assignor of one-third to J. M. Dunkelberger, Mount Carmel, Pa. Lamp-shade holder. No. 951,598; Mar. 8; Sp. p. 2298; Gaz. vol. 152; p. 399.
Cruise, Homer H., Starr, Ohio. Combination rail-joint and nut-lock. No. 975,513; Nov. 15; Sp. p. 3201; Gaz. vol. 160; p. 545.

Alphabetical list of patentees—Continued.

Crum, Crayton C., Bucyrus, Ohio. Husking-roll. No. 970,610; Sept. 20; Sp. p. 3121; Gaz. vol. 158; p. 544.
Crum, William H., Houston, Tex. Mold for plastic bodies. No. 948,475; Feb. 8; Sp. p. 1464; Gaz. vol. 151; p. 260.
Crum, Winfield S., Sherley, Ind. Stock-watering device. No. 945,706; Jan. 4; Sp. p. 1494; Gaz. vol. 150; p. 233.
Crum, Winfield S., La Fayette, Ind. Delivery-basket. No. 960,833; June 7; Sp. p. 1203; Gaz. vol. 155; p. 200.
Cruman-Caldwell Co. (See Getman, Charles W., assignor.)
Crump, Robert B., assignor of one-fourth to J. E. Kemmer, one-fourth to F. A. Murphy, Brooklyn, and one-fourth to J. R. Rehak, Rockland Lake, N. Y. Reversing-gear. No. 976,727; Nov. 22; Sp. p. 5804; Gaz. vol. 160; p. 983.
Crump Roller Washing Attachment Company, The. (See Crump, Samuel, assignor.)
Crump, Samuel, Caldwell, N. J. Printing-press. No. 954,279; Apr. 5; Sp. p. 1442; Gaz. vol. 153; p. 240.
Crump, Samuel, assignor to The Crump Roller Washing Attachment Company, New York, N. Y. Printing-press. No. 976,155; Nov. 22; Sp. p. 4545; Gaz. vol. 160; p. 786.
Crump, William R., Collinsville, Tex. Window-sash. No. 977,712; Dec. 6; Sp. p. 659; Gaz. vol. 161; p. 101.
Crumpacker, William A. (See Smith and Crumpacker.)
Crumrine, William L., Kanopolis, Kans. Cook-stove. No. 962,496; June 28; Sp. p. 4769; Gaz. vol. 155; p. 840.
Cruse, Dora. (See Brown and Cruse, assignors.)
Cruse, Francis M. (See Brown and Cruse.)
Cruse, Henry, Salford, England. Apparatus for superheating steam. No. 954,501; Apr. 12; Sp. p. 1724; Gaz. vol. 153; p. 310.
Cruse, Henry, Salford, Lancaster, England. Apparatus for superheating steam. No. 957,939; May 17; Sp. p. 3069; Gaz. vol. 154; p. 550.
Crutchfield, James C., Greensboro, N. C. Trace-fastener. No. 973,630; Oct. 25; Sp. p. 4660; Gaz. vol. 159; p. 810.
Crutchley, Harry, Bayonne, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 957,749; May 10; Sp. p. 2646; Gaz. vol. 154; p. 456.
Crutchley, Harry, Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 975,834; Nov. 15; Sp. p. 3867; Gaz. vol. 160; p. 653.
Csiky, Zoltan B., J. Kronheim, and Z. Tamassy, Cleveland, Ohio; said Tamassy assignor to said Kronheim. Convertible chair. No. 951,211; Mar. 8; Sp. p. 1505; Gaz. vol. 152; p. 272.
Cubitt, Archibald S., Schenectady, N. Y., assignor to General Electric Company. Current-relay. No. 949,997; Feb. 22; Sp. p. 4715; Gaz. vol. 151; p. 833.
Cubitt, Archibald S., Schenectady, N. Y., assignor to General Electric Company. Relay. No. 957,870; May 17; Sp. p. 2905; Gaz. vol. 154; p. 526.
Cubitt, Archibald S., Schenectady, N. Y., assignor to General Electric Company. Locking mechanism for controller handles. No. 977,073; Nov. 29; Sp. p. 6618; Gaz. vol. 160; p. 1128.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Controller-regulator. No. 949,998; Feb. 22; Sp. p. 4718; Gaz. vol. 151; p. 833.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Method of and means for reversing motors. No. 960,000; May 31; Sp. p. 7754; Gaz. vol. 154; p. 1306.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 964,759; July 19; Sp. p. 3857; Gaz. vol. 156; p. 642.
Cuda, Frank J., New York, assignor of one-half to J. A. Zibell, Tappan, N. Y. Cigar. No. 972,601; Oct. 11; Sp. p. 2387; Gaz. vol. 159; p. 407.
Cudahy, Laurence J., Muskegon, Mich. Safety tap-holder. No. 956,298; Apr. 26; Sp. p. 5675; Gaz. vol. 153; p. 988.
Cudd, Simeon S., assignor of one-half to D. C. Flynn, Union, S. C. Heating-stove. No. 969,605; Sept. 6; Sp. p. 976; Gaz. vol. 158; p. 155.
Cudworth, Hiram N. (See Norton, Spence, and Cudworth.)
Cuenot, Paul A., Steelton, assignor to The Pennsylvania Steel Company, Philadelphia, Pa. Testing-machine. No. 973,858; Oct. 25; Sp. p. 5126; Gaz. vol. 159; p. 890.
Culbertson, George W. R., and S. R. Clark, Glezen, Ind. Liquid measuring and filling apparatus. No. 969,090; Aug. 30; Sp. p. 6911; Gaz. vol. 157; p. 1203.
Culhan, James, *et al.* (See O'Connell, James, assignor.)
Cull, Henry, Chicago, Ill. Material-elevator. No. 968,030; Aug. 23; Sp. p. 4656; Gaz. vol. 157; p. 813.
Culley, Albert E. (See Murphy and Culley.)
Culligan, John C., Jordanville, N. Y. Reflector. No. 975,215; Nov. 8; Sp. p. 2587; Gaz. vol. 160; p. 417.
Cullman, Otto, Chicago, Ill. Detachable sprocket-wheel. No. 958,955; May 24; Sp. p. 5532; Gaz. vol. 154; p. 928.
Cullman, Otto, Chicago, Ill. Machine for operating route-guides, ribbon-maps, and the like. No. 961,288; June 14; Sp. p. 2137; Gaz. vol. 155; p. 383.
Cullman, Otto, Chicago, Ill. Route-guide. No. 965,159; July 26; Sp. p. 4667; Gaz. vol. 156; p. 808.
Cullman, Otto, Chicago, Ill. Expansible roller. No. 965,160; July 26; Sp. p. 4668; Gaz. vol. 156; p. 808.
Cullom, George A., St. Louis, Mo. Carton-sealing machine. No. 961,845; June 21; Sp. p. 3330; Gaz. vol. 155; p. 592.
Cullon, John P. (See Irwin, Cullon, and Knowlson.)
Culmer, John W., Cleveland, Ohio, assignor, by mesne assignments, to National Scale Company. Scale. No. 964,089; July 12; Sp. p. 2342; Gaz. vol. 156; p. 385.
Culp, Charles M., South Bend, Ind. Emergency-tire. No. 965,443; July 26; Sp. p. 5282; Gaz. vol. 156; p. 903.
Culp, Joseph W., Catlin, Ill. Fence-post. No. 965,692; July 26; Sp. p. 5832; Gaz. vol. 156; p. 991.
Culter, Richard D., East Tawas, Mich. Foot-guard. No. 949,649; Feb. 15; Sp. p. 3894; Gaz. vol. 151; p. 678.
Culver, Frank S., Madison, Wis. System of electrical distribution. No. 969,345; Sept. 6; Sp. p. 409; Gaz. vol. 158; p. 66.
Culver, Frederick S., Taunton, Mass. Spinning-machine. No. 946,203; Jan. 11; Sp. p. 2624; Gaz. vol. 150; p. 436.
Culver, Frederick S., and L. J. Morin, Taunton, Mass. Spinning-machine. No. 967,333; Aug. 16; Sp. p. 3212; Gaz. vol. 157; p. 556.
Culver, Frederick S., and L. J. Morin, Taunton, Mass. Spinning-machine. No. 974,030; Oct. 25; Sp. p. 5488; Gaz. vol. 159; p. 951.
Culver, George A., Clarinda, Iowa. Lawn-mower. No. 957,145; May 3; Sp. p. 1367; Gaz. vol. 154; p. 219.
Culver, George A., Clarinda, Iowa. Cutting-reel for lawn-mowers. No. 966,800; Aug. 9; Sp. p. 2100; Gaz. vol. 157; p. 348.
Culver, Katherine, Austin, Tex. Spool and work holder. No. 970,470; Sept. 20; Sp. p. 2833; Gaz. vol. 158; p. 495.
Culver, Lagar R., Salt Lake City, Utah. Aeroplane. No. 955,389; Apr. 19; Sp. p. 3666; Gaz. vol. 153; p. 644.
Culwell, Samuel J. (See Reed, Conwell P., assignor.)
Culy, Jacob, Drain, Oreg. Non-clogging salt-shaker. No. 979,263; Dec. 20; Sp. p. 4027; Gaz. vol. 161; p. 692.
Cumberland, Peregrine E. G., St. Kilda, Victoria, Australia. Means for preventing the corrosion of the internal parts of boilers due to electrochemical action. No. 948,968; Feb. 8; Sp. p. 2493; Gaz. vol. 151; p. 424.
Cumings, Peter B., Fremont, Nebr. Electric-current interrupter. No. 964,760; July 19; Sp. p. 3859; Gaz. vol. 156; p. 643.
Cummer, Herbert H., Cadillac, Mich. Crate. No. 947,625; Jan. 25; Sp. p. 5851; Gaz. vol. 150; p. 971.
Cumming, Millard C., assignor of one-half to L. W. Cottman, Tigerbay, Fla. Screw-jack. No. 961,106; June 14; Sp. p. 1753; Gaz. vol. 155; p. 318.
Cummings, Alexander L. (See Trimble, William D., assignor.)
Cummings, Alfred G., Terre Haute, Ind. Powder-press. No. 965,371; July 26; Sp. p. 5120; Gaz. vol. 156; p. 879.
Cummings, Charles L., New York, N. Y. Universal joint. No. 950,094; Feb. 22; Sp. p. 4923; Gaz. vol. 151; p. 866.
Cummings, David P., Newton Center, Mass. Machine for treating hides and skins. No. 948,208; Feb. 1; Sp. p. 877; Gaz. vol. 151; p. 144.
Cummings, Frederick L., Everett, and E. Hathaway, Malden, Mass. Floor-surfacing machine. No. 959,721; May 31; Sp. p. 7115; Gaz. vol. 154; p. 1208.
Cummings, Harry W., Los Angeles, Cal. Shock-absorber for vehicles. No. 970,611; Sept. 20; Sp. p. 3122; Gaz. vol. 158; p. 544.
Cummings, Henry H., Newton, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Boot-treeing machine. No. 945,306; Jan. 4; Sp. p. 655; Gaz. vol. 150; p. 102.
Cummings, Henry H., Newton, assignor to Andrews-Burr Paper Company, Boston, Mass. Toggle. No. 970,422; Sept. 13; Sp. p. 2706; Gaz. vol. 158; p. 457.
Cummings, Henry H., Malden, assignor, by mesne assignments, to Union Lock Stitch Company, Boston, Mass. Lock-stitch sewing-machine. No. 964,852; July 19; Sp. p. 4050; Gaz. vol. 156; p. 674.
Cummings, James G., and J. Lynch, Chicago, Ill. Broom-cover. No. 960,158; May 31; Sp. p. 8077; Gaz. vol. 154; p. 1358.
Cummings, John A., Benedicta, Me. Harness. No. 964,618; July 19; Sp. p. 3473; Gaz. vol. 156; p. 594.
Cummings, Michael H., assignor of one-third to T. H. Moriarty and one-third to M. Duffy, Minneapolis, Minn. Knockdown tent. No. 970,612; Sept. 20; Sp. p. 3123; Gaz. vol. 158; p. 544.
Cummings, Robert A., Beaver, Pa. Reinforced-concrete pile or column. No. 975,514; Nov. 15; Sp. p. 3203; Gaz. vol. 160; p. 545.
Cummings, Robert A., Beaver, Pa. Reinforced arch, bridge, or viaduct. No. 978,361; Dec. 13; Sp. p. 2039; Gaz. vol. 161; p. 356.
Cummins, Michael, Bergenfield, N. J. Rotary brush. No. 950,128; Feb. 22; Sp. p. 4990; Gaz. vol. 151; p. 877.
Cummins, Michael, Bergenfield, N. J. Coupling for grinding and polishing wheels. No. 962,627; June 28; Sp. p. 5056; Gaz. vol. 155; p. 884.
Cummins, Norman W. (See Campbell and Cummins.)
Cummins, Robert B., Sterling City, Tex. Windmill-drive. No. 952,979; Mar. 22; Sp. p. 5141; Gaz. vol. 152; p. 923.
Cummons, Clarence B., Plainview, Tex. Horse-detacher. No. 947,376; Jan. 25; Sp. p. 5281; Gaz. vol. 150; p. 887.
Cumms, Frank F., deceased; M. Cumms, Chicago, Ill., administratrix. Leather-edging machine. No. 947,054; Jan. 18; Sp. p. 4548; Gaz. vol. 150; p. 750.
Cumms, Margaret, administratrix. (See Cumms, Frank F.)
Cumner, Matthew S. (See Geissenhainer and Cumner.)

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Cumner, Matthew S., New York, N. Y. Type-writing machine. No. 966,169; Aug. 2; Sp. p. 703; Gaz. vol. 157; p. 111.

Cumpston, Frederick B., Dallas, Tex. Apparatus for removing sand or other fine particles from cotton or other material. No. 952,880; Mar. 22; Sp. p. 4948; Gaz. vol. 152; p. 890.

Cundy, Franklin B. (See Olson, Claus A., assignor.)

Cunin, Joseph E., and W. G. Ferguson, Alliance, Ohio. Account-register. No. 947,610; Jan. 25; Sp. p. 5814; Gaz. vol. 150; p. 966.

Cunneen, John F., Chicago, Ill. Furnace-grate. No. 973,481; Oct. 25; Sp. p. 4334; Gaz. vol. 159; p. 760.

Cunniff, John V., Fall River, assignor to Draper Company, Hopedale, Mass. Spinning-machine spindle. No. 970,189; Sept. 13; Sp. p. 2230; Gaz. vol. 158; p. 379.

Cunniff, John V., Fall River, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Let-off mechanism for looms. No. 973,344; Oct. 18; Sp. p. 4038; Gaz. vol. 159; p. 691.

Cunniff, John V., and C. Rafferty, Fall River, Mass. Loom-shuttle. No. 955,583; Apr. 19; Sp. p. 4049; Gaz. vol. 153; p. 711.

Cunningham, Andrew O., St. Louis, Mo. Concrete fence post. No. 952,071; Mar. 15; Sp. p. 3263; Gaz. vol. 152; p. 588.

Cunningham, Charles A., Chico, Cal. Decoy. No. 957,750; May 10; Sp. p. 2649; Gaz. vol. 154; p. 456.

Cunningham, Charles G., Kings Bridge, N. Y. Packing-ring for shaftings. No. 951,435; Mar. 8; Sp. p. 1981; Gaz. vol. 152; p. 344.

Cunningham, David W., Des Moines, Iowa. Locomotive-boiler washing and refilling apparatus. No. 976,438; Nov. 22; Sp. p. 5221; Gaz. vol. 160; p. 886.

Cunningham, Edward, Lebanon Junction, Ky. Lantern and lunch-receptacle. No. 959,118; May 24; Sp. p. 5863; Gaz. vol. 154; p. 982.

Cunningham, Edward J., Canton, Mass. Pulley. No. 963,998; July 12; Sp. p. 2158; Gaz. vol. 156; p. 353.

Cunningham, Edward R., Des Moines, Iowa. Combined telegraph and telephone system. No. 976,050; Nov. 15; Sp. p. 4291; Gaz. vol. 160; p. 728.

Cunningham, Frank R., Medford, Mass. Pipe-cleaner. No. 961,215; June 14; Sp. p. 1980; Gaz. vol. 155; p. 358.

Cunningham, Frank R., Medford, Mass., assignor to Kendrick and Davis Company, Lebanon, N. H. Micrometer-stop. No. 965,844; July 26; Sp. p. 6151; Gaz. vol. 156; p. 1043.

Cunningham, Frank R., Medford, Mass., assignor to Kendrick and Davis Company, Lebanon, N. H. Multiple bench-key. No. 966,529; Aug. 9; Sp. p. 1497; Gaz. vol. 157; p. 257.

Cunningham, Harry J., *et al.* (See Jennings, Milo C., assignor.)

Cunningham, Hugh B., Arnot, Pa. Nursing attachment. No. 949,414; Feb. 15; Sp. p. 3449; Gaz. vol. 151; p. 601.

Cunningham, J. F. (See Redden and Cunningham.)

Cunningham, John, Easton, Ill. Plow draft device. No. 977,436; Dec. 6; Sp. p. 17; Gaz. vol. 161; p. 6.

Cunningham, John A., South Bethlehem, Pa. Nail. No. 970,423; Sept. 13; Sp. p. 2708; Gaz. vol. 158; p. 457.

Cunningham, John F., Springfield, Mo. Force-pump. No. 978,852; Dec. 20; Sp. p. 3069; Gaz. vol. 161; p. 546.

Cunningham, Joseph T., Cincinnati, Ohio. Rotary harrow. No. 976,439; Nov. 22; Sp. p. 5224; Gaz. vol. 160; p. 886.

Cunningham, Malcolm, Savannah, Ga. Medicine-dose dropper. No. 978,988; Dec. 20; Sp. p. 3390; Gaz. vol. 161; p. 596.

Cunningham, Richard, and M. Friar, Blanchard, N. D. Plow. No. 978,564; Dec. 13; Sp. p. 2496; Gaz. vol. 161; p. 426.

Cunningham, Robert, Belfast, Ireland. Machine for folding handkerchiefs and like articles. No. 970,424; Sept. 13; Sp. p. 2709; Gaz. vol. 158; p. 457.

Cunningham, William J. (See Bernstein, Julius F., assignor.)

Cunningham, William J., Philadelphia, Pa. Bottle-washing machine. No. 946,895; Jan. 18; Sp. p. 4243; Gaz. vol. 150; p. 698.

Cunningham, William R., assignor to The American Clay Machinery Company, Bucyrus, Ohio. Shale-breaker. No. 959,202; May 24; Sp. p. 6042; Gaz. vol. 154; p. 1010.

Cunningham, William R., assignor to The American Clay Machinery Company, Bucyrus, Ohio. Centrifugal screen. No. 971,174; Sept. 27; Sp. p. 4341; Gaz. vol. 158; p. 761.

Cunningham, William R., assignor to The American Clay Machinery Co., Bucyrus, Ohio. Conveying system. No. 973,007; Oct. 18; Sp. p. 3303; Gaz. vol. 159; p. 574.

Cunningham, William R., assignor to The American Clay Machinery Co., Bucyrus, Ohio. Off-bearing attachment for brick-presses. No. 973,411; Oct. 18; Sp. p. 4186; Gaz. vol. 159; p. 713.

Cunninghame, Wilton, assignor to S. Simon, Chicago, Ill. Decorative structure. No. 972,754; Oct. 11; Sp. p. 2701; Gaz. vol. 159; p. 459.

Cunnius, Alfred R., Brooklyn, N. Y., assignor of one-half to L. Kaiser, East Orange, N. J. Horn for sound-reproducing machines. No. 960,834; June 7; Sp. p. 1203; Gaz. vol. 155; p. 200.

Cunnius, Calvin T., Long Branch, N. J. Spring-post for woodworking-machines. No. 947,211; Jan. 18; Sp. p. 4856; Gaz. vol. 150; p. 801.

Cunnius, Calvin T., Long Branch, N. J. Tightening device. No. 961,688; June 14; Sp. p. 2983; Gaz. vol. 155; p. 516.

Cuno, Charles, assignor to The Connecticut Telephone & Electric Company, Meriden, Conn. Timer and distributer. No. 958,908; May 24; Sp. p. 5451; Gaz. vol. 154; p. 913.

Cuntz, Hermann F., Hartford, Conn. Snow-melting machine. No. 950,895; Mar. 1; Sp. p. 907; Gaz. vol. 152; p. 146.

Cuntz, Johannes H., Hoboken, N. J. Electric cable. No. 977,713; Dec. 6; Sp. p. 660; Gaz. vol. 161; p. 101.

Cupp, Harry N., Pittsburg, Pa. Antirefillable bottle. No. 963,524; July 5; Sp. p. 1131; Gaz. vol. 156; p. 172.

Curlett, William, San Francisco, Cal. Knob-spindle fastener. No. 956,947; May 3; Sp. p. 964; Gaz. vol. 154; p. 154.

Curlett, William, San Francisco, Cal. Knob and spindle connection. No. 973,412; Oct. 18; Sp. p. 4193; Gaz. vol. 159; p. 714.

Curlett, William, San Francisco, Cal. Lock. No. 976,784; Nov. 22; Sp. p. 5946; Gaz. vol. 160; p. 1003.

Curley, John H., Brockton, Mass. Resilient tread and reinforcing-spring for shoes. No. 952,609; Mar. 22; Sp. p. 4372; Gaz. vol. 152; p. 798.

Curran, Edward, Cardiff, England. Combined horizontal furnace for heating steel or iron plates, angle-irons, and the like. No. 974,031; Oct. 25; Sp. p. 5490; Gaz. vol. 159; p. 952.

Curran, Edward J., Alton, Ill. Ladder attachment. No. 970,425; Sept. 13; Sp. p. 2713; Gaz. vol. 158; p. 458.

Curran, John H., assignor of one-third to W. E. Ridell and one-third to W. A. Hudson, St. Louis, Mo. Apparatus for purifying milk and cream. No. 949,295; Feb. 15; Sp. p. 3175; Gaz. vol. 151; p. 559.

Curran, William F., Coloma, Wis. Cable angle-support. No. 979,932; Dec. 27; Sp. p. 5441; Gaz. vol. 161; p. 940.

Curren, Amos, Rich Hill, Mo. Wire-stretcher. No. 978,989; Dec. 20; Sp. p. 3392; Gaz. vol. 161; p. 597.

Current, James E., and W. J. Wesley, Erie, Pa. Apparatus for printing wood-graining and the like. No. 950,277; Feb. 22; Sp. p. 5305; Gaz. vol. 151; p. 930.

Currey, Charles F., assignor to The Kansas Voting Machine Company, Topeka, Kans. Key-positioning device for voting-machines. No. 946,693; Jan. 18; Sp. p. 3756; Gaz. vol. 150; p. 628.

Currie, Otis C., assignor to The Campbell-Kingsley Manufacturing Company, Detroit, Mich. View-dissolver for magic lanterns. No. 958,370; May 17; Sp. p. 4306; Gaz. vol. 154; p. 703.

Currier, Cyrus C. (See Taylor, Percy B., assignor.)

Currier, Guy W. (See Abell, Rollin, assignor.)

Currier, Hiram D., Bloomfield, N. J., assignor to Western Electric Company, Chicago, Ill. Harmonic selective-ringing system for party-lines. No. 955,253; Apr. 19; Sp. p. 3368; Gaz. vol. 153; p. 600.

Currier, Hiram D., assignor to Western Electric Company, Chicago, Ill. Intercommunicating telephone system. No. 969,774; Sept. 13; Sp. p. 1353; Gaz. vol. 158; p. 238.

Curry, Claud D., and A. W. Linn, assignors of one-sixth to A. T. Moore and one-sixth to W. M. Clemens, Memphis, Tenn. Means for fastening rolls to shafts. No. 967,334; Aug. 16; Sp. p. 3213; Gaz. vol. 157; p. 556.

Curry, Harry W., Hudson Heights, N. J. Nose-bag. No. 973,175; Oct. 18; Sp. p. 3691; Gaz. vol. 159; p. 632.

Curry, John. (See Fleming and Curry.)

Curry, John J., administrator. (See Johnson, Thomas O.)

Curry, William J., Victoria, British Columbia, Canada. Combined mop head and wringer. No. 960,627; June 7; Sp. p. 800; Gaz. vol. 155; p. 131.

Cursey, Louis W., Memphis, Tenn. Oil-press. No. 967,732; Aug. 16; Sp. p. 4027; Gaz. vol. 157; p. 690.

Curtain Supply Company, The. (See Davis, George H., assignor.)

Curtain Supply Company, The. (See Hopkins, Charles L., assignor.)

Curtain Supply Company. (See Keeler, Herbert E., assignor.)

Curtain Supply Company, The. (See Whitmore, Edward E., assignor.)

Curtenius, Dwight, *et al.* (See Bogenschutz, William C., assignor.)

Curtin, Peter A., Buffalo, assignor of one-half to T. F. Gaynor, New York, N. Y. Water-closet. No. 975,678; Nov. 15; Sp. p. 3573; Gaz. vol. 160; p. 601.

Curtin, William H. (See Holland and Curtin.)

Curtis, Abner J. (See Curtis, John A., assignor.)

Curtis, Charles G., New York, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 945,919; Jan. 11; Sp. p. 2035; Gaz. vol. 150; p. 339.

Curtis, Charles G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Surface condenser. No. 952,102; Mar. 15; Sp. p. 3320; Gaz. vol. 152; p. 598.

Curtis, Charles G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 969,606; Sept. 6; Sp. p. 977; Gaz. vol. 158; p. 155.

Curtis, Charles L., assignor to Herculever Co., New York, N. Y. Box-opener. No. 950,256; Feb. 22; Sp. p. 5263; Gaz. vol. 151; p. 923.
Curtis, Clarence T., Washington, Me. Horse-hoe. No. 976,641; Nov. 22; Sp. p. 5642; Gaz. vol. 160; p. 955.
Curtis & Company Manufacturing Company. (See Steedman, George F., assignor.)
Curtis, Edward, Newark, N. J. Filing-machine. No. 974,474; Nov. 1; Sp. p. 916; Gaz. vol. 160; p. 136.
Curtis, Edwin P., assignor to Richardson Manufacturing Company, Worcester, Mass. Hay-tedder. No. 952,238; Mar. 15; Sp. p. 3580; Gaz. vol. 152; p. 644.
Curtis, Frank J., Ben Avon, Pa. Rotary pump. No. 963,690; July 5; Sp. p. 1442; Gaz. vol. 156; p. 227.
Curtis, Frederic A., *et al.* (See Green, James M., assignor.)
Curtis, Grant M., assignor to Cyphers Incubator Company, Buffalo, N. Y. Heater for brooders and incubators. No. 967,173; Aug. 16; Sp. p. 2892; Gaz. vol. 157; p. 501.
Curtis, Grant M., assignor to Cyphers Incubator Company, Buffalo, N. Y. Incubator. No. 970,311; Sept. 13; Sp. p. 2499; Gaz. vol. 158; p. 421.
Curtis, Henry D. (See Curtis, Robert H. and H. D.)
Curtis, Henry E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 966,170; Aug. 2; Sp. p. 704; Gaz. vol. 157; p. 111.
Curtis, Joel A. (See McKee, Thomas A., assignor.)
Curtis, John A., Madeira, assignor of one-half to A. J. Curtis, Cincinnati, Ohio. Cut-off. No. 946,634; Jan. 18; Sp. p. 3630; Gaz. vol. 150; p. 609.
Curtis, John F., Macclenny, Fla. Photoprinting-frame. No. 973,764; Oct. 25; Sp. p. 4932; Gaz. vol. 159; p. 858.
Curtis, Julius E., Tacoma, Wash. Polisher. No. 948,691; Feb. 8; Sp. p. 1929; Gaz. vol. 151; p. 331.
Curtis, Kenneth L., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. Circuit-controller. No. 969,607; Sept. 6; Sp. p. 979; Gaz. vol. 158; p. 155.
Curtis-Leger Fixture Company. (See Hotchkin and Morgan, assignors.)
Curtis, Martin J., Billings, Mont. Miner's lamp. No. 976,785; Nov. 22; Sp. p. 5948; Gaz. vol. 160; p. 1004.
Curtis, Robert H., Long Branch, and H. D. Curtis, Red Bank, N. J. Hat-size-reducing device. No. 949,264; Feb. 15; Sp. p. 3114; Gaz. vol. 151; p. 549.
Curtis, Theodore H., Louisville, Ky., assignor to J. G. Talmage, Cleveland, Ohio. Locomotive ash-pan. No. 973,765; Oct. 25; Sp. p. 4934; Gaz. vol. 159; p. 858.
Curtiss, Bert, Ypsilanti, Mich. Finger-moistener. No. 978,703; Dec. 13; Sp. p. 2784; Gaz. vol. 161; p. 474.
Curtiss, Bird, and W. A. Monroe, Spokane, Wash. Excavating apparatus. No. 967,733; Aug. 16; Sp. p. 4033; Gaz. vol. 157; p. 691.
Curtiss, George E., assignor to Landers, Frary and Clark, New Britain, Conn. Tea or coffee pot. No. 954,502; Apr. 12; Sp. p. 1725; Gaz. vol. 153; p. 310.
Curtiss, James M., Cleveland, Ohio. Fishing-tackle. No. 958,233; May 17; Sp. p. 3873; Gaz. vol. 154; p. 654.
Curtright, Harry P., deceased, Holliday, Mo.; M. B. Curtright, administratrix. Sulky-plow. No. 958,696; May 17; Sp. p. 4939; Gaz. vol. 154; p. 811.
Curtright, Mary B., administratrix. (See Curtright, Harry P.)
Curtwright, Henry T. (See Paul, William L., assignor.)
Curwen, Samuel M., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-panel with movable sash. No. 966,430; Aug. 9; Sp. p. 1221; Gaz. vol. 157; p. 221.
Curwen, Samuel M., Haverford, assignor to The J. G. Brill Company, Philadelphia, Pa. Means for operating the steps of passenger-cars. No. 973,261; Oct. 18; Sp. p. 3865; Gaz. vol. 159; p. 661.
Cush, William F., Washington, D. C. Removable flange. No. 976,440; Nov. 22; Sp. p. 5225; Gaz. vol. 160; p. 887.
Cushion Crown-Arch Key Company. (See Hay, Howard M., assignor.)
Cushman, James S., New York, N. Y. Moistener. No. 973,631; Oct. 25; Sp. p. 4663; Gaz. vol. 159; p. 811.
Cushman, Lucian W., Lincoln, Nebr. Spray-nozzle. No. 962,946; June 28; Sp. p. 5677; Gaz. vol. 155; p. 994.
Cushman Paper Box Machine Company. (See Taylor, Eugene H., assignor.)
Cushnoc Motor Company. (See Nichols, Abner W., assignor.)
Custer, Dwight W., assignor, by mesne assignments, to Automatic Printing Press Company, New York, N. Y. Printing-press inking device. No. 977,170; Nov. 29; Sp. p. 6846; Gaz. vol. 160; p. 1162.
Custer, Edgar A., assignor to Custer Sandless Casting Company, Philadelphia, Pa. Sash-weight. No. 973,176; Oct. 18; Sp. p. 3692; Gaz. vol. 159; p. 632.
Custer, Joseph M., Copper Hill, Va. Vehicle-brake lever. No. 948,106; Feb. 1; Sp. p. 682; Gaz. vol. 151; p. 111.
Custer Sandless Casting Company. (See Custer, Edgar A., assignor.)
Custis, Marvin A. (See Snyder and Custis.)
Cutcheon, Frederick R. M., St. Paul, Minn. Electric-voltage regulator. No. 947,055; Jan. 18; Sp. p. 4550; Gaz. vol. 150; p. 750.
Cuthbert, George, Philadelphia, Pa., and F. J. Fee, Collingswood, N. J. Metallic shuttle. No. 970,803; Sept. 20; Sp. p. 3583; Gaz. vol. 158; p. 612.
Cuthbert, John. (See Lake and Cuthbert.)
Cutler, Benjamin, Crawfordsville, Oreg. Wave-motor. No. 976,988; Nov. 29; Sp. p. 6438; Gaz. vol. 160; p. 1099.
Cutler Electrical and Manufacturing Company. (See Scott, William M., assignor.)
Cutler, Fannie B., Ronald township, Ionia county, Mich. Monkey-wrench. No. 972,342; Oct. 11; Sp. p. 1792; Gaz. vol. 159; p. 314.
Cutler-Hammer Manufacturing Company, The. (See Barnum, Thomas E., assignor.)
Cutler-Hammer Manufacturing Company, The. (See Coulter, Leonard P., assignor.)
Cutler-Hammer Manufacturing Company, The. (See Simon, Arthur, assignor.)
Cutler-Hammer Mfg. Co., The. (See Cutler, Henry H., assignor.)
Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)
Cutler-Hammer Mfg. Co., The. (See Ward, Samuel M., Jr., assignor.)
Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry J., assignor.)
Cutler, Henry H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-closer. No. 955,323; Apr. 19; Sp. p. 3509; Gaz. vol. 153; p. 622.
Cutler, Henry H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Phase-splitter. No. 956,686; May 3; Sp. p. 390; Gaz. vol. 154; p. 65.
Cutler, Joseph W., assignor, by mesne assignments, to Cutler Mail Chute Company, Rochester, N. Y. Exhibitor for mailing-receptacles. No. 954,786; Apr. 12; Sp. p. 2363; Gaz. vol. 153; p. 409.
Cutler Mail Chute Company. (See Anderson, Frank E., assignor.)
Cutler Mail Chute Company. (See Cutler, Joseph W., assignor.)
Cutler National Electric Heater Company. (See Cutler, William F., assignor.)
Cutler, William, Edgbaston, Birmingham, England. Boat-propelling means. No. 954,718; Apr. 12; Sp. p. 2203; Gaz. vol. 153; p. 384.
Cutler, William, Edgbaston, Birmingham, England. Forcing frame or inclosure for horticultural or other purposes. No. 958,956; May 24; Sp. p. 5534; Gaz. vol. 154; p. 929.
Cutler, William F., Suffern, N. Y. Garment-hanger. No. 972,439; Oct. 11; Sp. p. 1992; Gaz. vol. 159; p. 350.
Cutler, William F., assignor to Cutler National Electric Heater Company, San Francisco, Cal. Electric water-heater. No. 961,937; June 21; Sp. p. 3531; Gaz. vol. 155; p. 623.
Cutter Electrical Manufacturing Company, The. (See Scott, William M., assignor.)
Cutter, George A., Newton Highlands, Mass. Power-transmission device. No. 949,265; Feb. 15; Sp. p. 3115; Gaz. vol. 151; p. 549.
Cutter, George A., Taunton, Mass., assignor to Cell Drier Machine Company. Drying-machine. No. 959,722; May 31; Sp. p. 7117; Gaz. vol. 154; p. 1208.
Cutter, Solomon M., Reading, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Wire-feeding mechanism for nailing-machines. No. 960,278; June 7; Sp. p. 77; Gaz. vol. 155; p. 16.
Cutter, William T., East Lyme, Conn., assignor, by mesne assignments, to Hydrocarbon Converter Company, New York, N. Y. Method of and apparatus for making gas. No. 978,853; Dec. 20; Sp. p. 3071; Gaz. vol. 161; p. 546.
Cuzner, Alfred. (See Schroeder, Frederick W., assignor.)
Cycle Support Company. (See Taylor, James P., assignor.)
Cyclone Drill Company, The. (See Munn, John F., assignor.)
Cyphers Incubator Company. (See Adair, Charles E., assignor.)
Cyphers Incubator Company. (See Curtis, Grant M., assignor.)
Cyphers Incubator Company. (See Damon, Charles A., assignor.)
Cyr, Charles, Munising, Mich. Belt-stretcher. No. 973,008; Oct. 18; Sp. p. 3306; Gaz. vol. 159; p. 575.
Cyr, Joseph T., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Pattern mechanism for looms. No. 960,214; May 31; Sp. p. 8190; Gaz. vol. 154; p. 1379.
Cyr, Joseph T., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Evener-motion for tufted-fabric looms. No. 970,613; Sept. 20; Sp. p. 3125; Gaz. vol. 158; p. 544.
Czerniewski, Waclaw, London, England. Apparatus for producing animated pictures by the movement of vehicles. No. 978,854; Dec. 20; Sp. p. 3073; Gaz. vol. 161; p. 546.
D. H. Burrell & Co. (See Hoyt, Matthew L., assignor.)
D. H. Burrell & Company. (See Dalzell, Charles B., assignor.)

Alphabetical list of patentees—Continued.

D. H. Burrell & Company. (See Feldmeier, Harvey, assignor.)
D. H. Burrell & Company. (See Lane, Frederic A., assignor.)
D. M. Still and Sons Limited. (See Adamson, Andrew G., assignor.)
D. S. Thompson Manufacturing Company. (See Plaisted, Delbert E., assignor.)
D. T. Owen Company, The. (See Owen, David T., assignor.)
D. T. Williams Valve Company, The. (See Swanberg, Floyd L., assignor.)
D. W. Payne Controller & Engineering Company. (See Payne, David W., assignor.) (Reissue.)
D'Abreu, Armand, Paris, and E. Seeger, Enghien, France. Sling for ball games. No. 975,193; Nov. 8; Sp. p. 2542; Gaz. vol. 160; p. 410.
D'Agostino, Pasquale, assignor of one-half to C. R. Root, Hartford, Conn. Weight power-producing machine. No. 951,415; Mar. 8; Sp. p. 1950; Gaz. vol. 152; p. 338.
D'Amora, Matthew R., New York, N. Y. Road-vehicle. No. 953,312; Mar. 29; Sp. p. 5871; Gaz. vol. 152; p. 1060.
D'Andelet, Jerome A., Hyattsville, Md. Shield. No. 948,107; Feb. 1; Sp. p. 683; Gaz. vol. 151; p. 111.
D'Arcy, Frank P., Kalamazoo, Mich. Cushion. No. 955,324; Apr. 19; Sp. p. 3511; Gaz. vol. 153; p. 622.
D'Arsi, Fortunato M. (See Stanton, D'Arsi, and Munzer.)
D'Arsi, Fortunato M., assignor to Auto-Flame Gas Burners Company, New York, N. Y. Cigar-lighter. No. 969,346; Sept. 6; Sp. p. 417; Gaz. vol. 158; p. 67.
D'Elia, Antonio, Jersey City, N. J. Building-block. No. 959,846; May 31; Sp. p. 7391; Gaz. vol. 154; p. 1251.
D'Ercole, Anassagora, Rome, Italy. Granulating commercial calcium-cyanamid powder. No. 973,019; Oct. 18; Sp. p. 3327; Gaz. vol. 159; p. 578.
D'Homergue, John B., Pittsburg, Pa. Pipe-covering. No. 952,117; Mar. 15; Sp. p. 3349; Gaz. vol. 152; p. 603.
D'Olier, Henry, Jr., Rutherford, N. J. Reflector and attachment. No. 945,448; Jan. 4; Sp. p. 947; Gaz. vol. 150; p. 149.
D'Olier, Henry, Jr., Philadelphia, Pa. Shade attachment. No. 951,269; Mar. 8; Sp. p. 1626; Gaz. vol. 152; p. 290.
D'Olier, Henry, Jr., Rutherford, N. J. Reflector and attachment therefor. No. 957,148; May 3; Sp. p. 1374; Gaz. vol. 154; p. 220.
D'Olier, Henry, Jr., Rutherford, N. J. Reflector attachment. No. 959,205; May 24; Sp. p. 6049; Gaz. vol. 154; p. 1011.
D'Olier, Henry, Jr., Rutherford, N. J. Reflector attachment. No. 959,206; May 24; Sp. p. 6051; Gaz. vol. 154; p. 1011.
D'Olier, Henry, Jr., Rutherford, N. J., assignor to Holophane Glass Company, New York, N. Y. Electric-lamp reflector attachment. No. 977,939; Dec. 6; Sp. p. 1122; Gaz. vol. 161; p. 180.
D'Olier, Henry, Jr., Philadelphia, Pa., assignor to Holophane Glass Company, New York, N. Y. Shade or reflector attachment. No. 977,940; Dec. 6; Sp. p. 1124; Gaz. vol. 161; p. 180.
D'Olier, Henry, Jr., Philadelphia, Pa., assignor to Holophane Glass Company, New York, N. Y. Shade or reflector attachment. No. 977,941; Dec. 6; Sp. p. 1126; Gaz. vol. 161; p. 180.
D'Orbessan, Fernand, Ozone Park, and D. V. Louvet, Brooklyn Hills, N. Y. Sifting apparatus. No. 962,090; June 21; Sp. p. 3862; Gaz. vol. 155; p. 676.
D'Urso, Vito E., New York, N. Y. Sound-amplifier for phonographs. No. 956,235; Apr. 26; Sp. p. 5539; Gaz. vol. 153; p. 966.
D'Urso, Vito E., New York, N. Y. Sewing-machine attachment No. 961,942; June 21; Sp. p. 3540; Gaz. vol. 155; p. 624.
Daboul, Richard, Lawrence, Mass. Hat-fastener. No. 954,078; Apr. 5; Sp. p. 794; Gaz. vol. 153; p. 138.
Dacheux, René, Liege, Belgium. Type-distributing apparatus. No. 958,600; May 17; Sp. p. 4758; Gaz. vol. 154; p. 781.
Daddow, John L., Portsmouth, Va. Car-coupling. No. 948,606; Feb. 8; Sp. p. 1747; Gaz. vol. 151; p. 302.
Dade, John B., Frankfort, N. Y. Tapping attachment. No. 978,855; Dec. 20; Sp. p. 3076; Gaz. vol. 161; p. 547.
Daellenbach, Carl R., Braddock, Pa. Electrofluid-pressure apparatus. No. 968,453; Aug. 23; Sp. p. 5556; Gaz. vol. 157; p. 958.
Dager, George C., assignor of one-half to H. C. Daubenspeck, Washington, Pa. Mold. No. 970,426; Sept. 13; Sp. p. 2715; Gaz. vol. 158; p. 458.
Daggett, Harry M., Oakland, Cal. Oil-burner. No. 956,629; May 3; Sp. p. 261; Gaz. vol. 154; p. 44.
Daggs, Herbert W., assignor to Daggs Manufacturing Company, Rochester, N. Y. Door-check. No. 953,378; Mar. 29; Sp. p. 6033; Gaz. vol. 152; p. 1084.
Daggs Manufacturing Company. (See Daggs, Herbert W., assignor.)
Dahill, Maurice J., Jr., South Easton, Mass. Detachable collar and cuff fastener. No. 969,846; Sept. 13; Sp. p. 1532; Gaz. vol. 158; p. 263.
Dahl, Benjamin, assignor to Dahl Punctureless Tire Company, Minneapolis, Minn. Wheel-tire. No. 960,001; May 31; Sp. p. 7756; Gaz. vol. 154; p. 1306.
Dahl, Bernard J. (See Wetball, Hans G., assignor.)
Dahl, Hans, and M. Martin, Berlin, Germany; said Martin assignor to said Dahl. Signaling device for speed-indicators. No. 961,107; June 14; Sp. p. 1754; Gaz. vol. 155; p. 318.
Dahl, Harry M., El Campo, Tex. Screen for wells. No. 951,416; Mar. 8; Sp. p. 1951; Gaz. vol. 152; p. 338.
Dahl, Lendis F., Snohomish, Wash. Billiard-cue-chalk holder. No. 965,444; July 26; Sp. p. 5284; Gaz. vol. 156; p. 904.
Dahl Manufacturing Company. (See Gasstrom, Herman, assignor.)
Dahl Punctureless Tire Company. (See Dahl, Benjamin, assignor.)
Dahlfues, Ernest L., San Diego, Cal. Shoe-cleaner. No. 955,769; Apr. 19; Sp. p. 4486; Gaz. vol. 153; p. 774.
Dahlmann, Wilhelm, Berlin, Germany. Manufacturing ball-bearings and the like. No. 958,477; May 17; Sp. p. 4521; Gaz. vol. 154; p. 740.
Dahlstrom, Carl A., Mountpleasant, Tenn. Sand-washer. No. 971,528; Oct. 4; Sp. p. 35; Gaz. vol. 159; p. 8.
Dahlstrom, Charles, assignor to Dahlstrom Metallic Door Company, Jamestown, N. Y. Metallic door. No. 945,224; Jan. 4; Sp. p. 451; Gaz. vol. 150; p. 75.
Dahlstrom, Daniel, Alvarado, Minn. Ditching-plow. No. 956,299; Apr. 26; Sp. p. 5677; Gaz. vol. 153; p. 988.
Dahlstrom Metallic Door Company. (See Dahlstrom, Charles, assignor.)
Dahlund, Frank, Esmond, N. D. Napkin-holder. No. 952,419; Mar. 15; Sp. p. 3936; Gaz. vol. 152; p. 704.
Dahms, Albert, Hetland, S. D., assignor of one-third to E. Stief, Winona, Minn. Cutter-bar. No. 951,985; Mar. 15; Sp. p. 3104; Gaz. vol. 152; p. 560.
Dahn, Edward. (See Marsden and Dahn.)
Dailey, James G., Philadelphia, Pa. Duplicating-machine. No. 958,098; May 17; Sp. p. 3607; Gaz. vol. 154; p. 608.
Dailey, Harry, Oklahoma, Okla. Rail-joint. No. 949,415; Feb. 15; Sp. p. 3450; Gaz. vol. 151; p. 602.
Dailey, Harry A., assignor of one-half to W. G. Caldwell, Wheeling, W. Va. Spark-arrester. No. 953,320; Mar. 29; Sp. p. 5886; Gaz. vol. 152; p. 1063.
Dailey, Lorenzo, Kansas City, Kans. Portable boring-machine. No. 960,002; May 31; Sp. p. 7757; Gaz. vol 154; p. 1307.
Daimler Motorengesellschaft. (See Daimler and Vischer, assignors.)
Daimler, Paul, Untertürkheim, Germany. Driving-gear for motor-cars. No. 963,874; July 12; Sp. p. 1900; Gaz. vol. 156; p. 312.
Daimler, Paul, and A. Vischer, assignors to Daimler Motorengesellschaft, Untertürkheim-Stuttgart, Germany. Starting-gear of internal-combustion motors. No. 972,512; Oct. 11; Sp. p. 2166; Gaz. vol. 159; p. 376.
Dain, Joseph, Ottumwa, Iowa. Hay-rake. No. 947,803; Feb. 1; Sp. p. 48; Gaz. vol. 151; p. 10.
Dain, Joseph, Ottumwa, Iowa. Hay-retaining device for hay-stackers. No. 949,352; Feb. 15; Sp. p. 3305; Gaz. vol. 151; p. 579.
Dain, Joseph, Ottumwa, Iowa. Hay-loader. No. 961,757; June 21; Sp. p. 3132; Gaz. vol. 155; p. 564.
Dain, Joseph, Ottumwa, Iowa. Hay-rake. No. 974,125; Nov. 1; Sp. p. 37; Gaz. vol. 160; p. 9.
Dains, Andrew J., Pratts Fork, Ohio. Horse-collar fastener. No. 953,597; Mar. 29; Sp. p. 6496; Gaz. vol. 152; p. 1161.
Dainty, Joseph A., Newark, N. J. Toy cannon. No. 956,043; Apr. 26; Sp. p. 5094; Gaz. vol. 153; p. 899.
Daisley, James, South Framingham, Mass. Builder's apparatus. No. 966,801; Aug. 9; Sp. p. 2101; Gaz. vol. 157; p. 349.
Daisley, James, South Framingham, Mass. Builder's apparatus. No. 966,802; Aug. 9; Sp. p. 2105; Gaz. vol. 157; p. 349.
Dake-American Steam Turbine Company, The. (See Dake, Charles W., assignor.)
Dake, Charles W., Grand Rapids, Mich. Elastic-fluid turbine. No. 977,601; Dec. 6; Sp. p. 431; Gaz. vol. 161; p. 63.
Dake, Charles W., assignor to The Dake-American Steam Turbine Company, Grand Rapids, Mich. Governor for steam or elastic-fluid engines. No. 959,471; May 31; Sp. p. 6593; Gaz. vol. 154; p. 1125.
Dake, Virgil H., Buffalo, N. Y. Electrical test implement. No. 951,631; Mar. 8; Sp. p. 2370; Gaz. vol. 152; p. 411.
Dakin, Francis J. V. (See Johnson, Gustaf, assignor.)
Dale, Frank B., Richland township, Clarion county, and D. A. Crawford, Emlenton, Pa. Grass-cutting machine. No. 961,485; June 14; Sp. p. 2573; Gaz. vol. 155; p. 449.
Dale, John H. (See Gervin, Charles D., assignor.)
Dale, John H. (See Holden, Delos, assignor.)
Dale, John H. (See Lefèbre, Edward A., Jr., assignor.)
Dale, John H., New York, N. Y. Cluster lamp-socket. No. 958,727; May 24; Sp. p. 5010; Gaz. vol. 154; p. 848.
Dale, John H., New York, N. Y. Cluster lamp-socket. No. 958,728; May 24; Sp. p. 5011; Gaz. vol. 154; p. 848.
Dale, John H., New York, N. Y. Cluster lamp-socket. No. 958,729; May 24; Sp. p. 5014; Gaz. vol. 154; p. 849.
Dale, John H., New York, N. Y. Shade-holder. No. 970,804; Sept. 20; Sp. p. 3585; Gaz. vol. 158; p. 613.

Alphabetical list of patentees—Continued.

Dale, John H., New York, N. Y. Tungsten-lamp shock-absorber and adapter. No. 979,933; Dec. 27; Sp. p. 5442; Gaz. vol. 161; p. 940.
Dale, Maurice J. (See Ferguson, Bert C., assignor.)
Dalemont, Julien. (See Herdt, Louis A., assignor.)
Dalén, Gustaf, Stockholm, Sweden. Light-signal apparatus. No. 952,420; Mar. 15; Sp. p. 3937; Gaz. vol. 152; p. 705.
Dalén, Gustaf, Stockholm, Sweden. Light-signal apparatus. No. 952,421; Mar. 15; Sp. p. 3940; Gaz. vol. 152; p. 705.
Dalén, Gustaf, Stockholm, Sweden. Apparatus for producing sounds. No. 952,422; Mar. 15; Sp. p. 3942; Gaz. vol. 152; p. 705.
Dalén, Gustaf, Stockholm, Sweden. Device for establishing a pulsing motion of fluid in conduits. No. 976,556; Nov. 22; Sp. p. 5479; Gaz. vol. 160; p. 926.
Dalén, Gustaf, Stockholm, Sweden, assignor, by mesne assignments, to American Gasaccumulator Company. Valve. No. 954,172; Apr. 5; Sp. p. 1012; Gaz. vol. 153; p. 172.
Daley, Daniel P. (See Patterson, Lemuel, assignor.)
Daley, Walter A. (See Davis and Daley.)
Daley, William T. (See Hines, George E., assignor.)
Dalgety, Ferdinand P. (See Dalgety, William Z. and F. P.)
Dalgety, William Z. and F. P., Rochester, N. Y. Ice-chipping machine. No. 957,038; May 3; Sp. p. 1166; Gaz. vol. 154; p. 185.
Dalgleish, Edmund. (See Metcalf and Dalgleish.)
Dalgleish, Edmund, Cleveland, Ohio. Towing-machine. No. 977,277; Nov. 29; Sp. p. 7050; Gaz. vol. 160; p. 1199.
Dalgleish, Robert M., New York, N. Y. Cloth dampening and shrinking machine. No. 966,659; Aug. 9; Sp. p. 1761; Gaz. vol. 157; p. 300.
Dallaire, Alford L., Chicago, assignor to Studebaker Brothers Manufacturing Company, South Bend, Ind. Foldable vehicle-top. No. 946,658; Jan. 18; Sp. p. 3683; Gaz. vol. 150; p. 616.
Dallam, John C., Schenectady, N. Y., assignor to General Electric Company. Attaching-plug. No. 947,987; Feb. 1; Sp. p. 434; Gaz. vol. 151; p. 70.
Dallam, John C., Schenectady, N. Y., assignor to Stanley Electric Manufacturing Company, Pittsfield, Mass. Attachment-plug. No. 964,619; July 19; Sp. p. 3475; Gaz. vol. 156; p. 594.
Dallas, Jack C. (See Choquette and Dallas.)
Dallemagne, François, Irun, Spain. Ore concentrating and separating apparatus. No. 953,900; Apr. 5; Sp. p. 430; Gaz. vol. 153; p. 78.
Dallett and Company, Thomas H. (See Soley, William H., assignor.)
Dalley, Edward M., Larchmont, N. Y. Compressible packing-tube. No. 962,008; June 21; Sp. p. 3677; Gaz. vol. 155; p. 646.
Dalmas, Henry A., Manassas, Va. Rock-drill. No. 956,044; Apr. 26; Sp. p. 5097; Gaz. vol. 153; p. 900.
Dalpay, Joseph, Seattle, Wash. Combined rake and hoe. No. 954,616; Apr. 12; Sp. p. 1965; Gaz. vol. 153; p. 348.
Dalrymple, Lawrence R., Abilene, Kans. Gas-engine primer. No. 957,500; May 10; Sp. p. 2147; Gaz. vol. 154; p. 371.
Dalton, Joseph A., assignor of one-half to P. J. Quinn, Pawtucket, R. I. Drill-chuck. No. 973,345; Oct. 18; Sp. p. 4040; Gaz. vol. 159; p. 691.
Dalton, Joseph A., assignor of one-half to P. J. Quinn, Pawtucket, R. I. Tapping and drilling chuck. No. 974,239; Nov. 1; Sp. p. 355; Gaz. vol. 160; p. 50.
Dalton, William G., Lake Forest, Ill. Burnishing-machine. No. 974,032; Oct. 25; Sp. p. 5492; Gaz. vol. 159; p. 952.
Dalton, William H. (See Harthan and Dalton.)
Daly, Asa, Lebanon, Ohio. Rail-joint. No. 977,171; Nov. 29; Sp. p. 6848; Gaz. vol. 160; p. 1163.
Daly, Charles J., assignor to Benicia Iron Works, Benicia, Cal. Disk plow. No. 963,525; July 5; Sp. p. 1133; Gaz. vol. 156; p. 172.
Daly, Christopher L. (See Daly, John M., assignor.)
Daly, Daniel J., Boston, Mass. Coupling for members for building-frames, &c. No. 949,394; Feb. 15; Sp. p. 3406; Gaz. vol. 151; p. 595.
Daly, Henry W., and D. H. Boughton, Fort Leavenworth, Kans. Bridle. No. 952,610; Mar. 22; Sp. p. 4374; Gaz. vol. 152; p. 799.
Daly, John M., Chicago, assignor of one-half to C. L. Daly, Peoria, Ill. Computing-machine. No. 956,687; May 3; Sp. p. 391; Gaz. vol. 154; p. 65.
Daly, John M., Chicago, assignor of one-half to C. L. Daly, Peoria, Ill. Tonnage-equating machine. No. 956,688; May 3; Sp. p. 395; Gaz. vol. 154; p. 66.
Daly, John M., Chicago, assignor of one-half to C. L. Daly, Peoria, Ill. Computing-machine. No. 956,689; May 3; Sp. p. 410; Gaz. vol. 154; p. 66.
Daly, John M., Chicago, assignor of one-half to C. L. Daly, Peoria, Ill. Computing-machine. No. 964,495; July 19; Sp. p. 3163; Gaz. vol. 156; p. 550.
Daly, Peter F., Chicago, Ill. Window-cleaning apparatus. No. 966,660; Aug. 9; Sp. p. 1763; Gaz. vol. 157; p. 300.
Daly, William O., Mobile, Ala. Auxiliary car-step. No. 952,442; Mar. 22; Sp. p. 3987; Gaz. vol. 152; p. 739.
Dalzell, Charles B., assignor to D. H. Burrell & Company, Little Falls, N. Y. Air-pump. No. 952,440; Mar. 15; Sp. p. 3976; Gaz. vol. 152; p. 711.
Dalzelle, Sanford J., Beaumont, Tex. Steam face-bath. No. 949,623; Feb. 15; Sp. p. 3846; Gaz. vol. 151; p. 670.
Dalziel, James, Derby, England. Voltage-regulated electric-lighting system for railway and other carriages. No. 977,074; Nov. 29; Sp. p. 6620; Gaz. vol. 160; p. 1129.
Damascus Brake Beam Co., The. (See Handiges, Philip T., assignor.)
Damköhler, Hermann, and H. Schwindt, Bremen, Germany. Electrolytically treating tannic infusions of plants. No. 975,835; Nov. 15; Sp. p. 3869; Gaz. vol. 160; p. 653.
Damköhler, Hermann, and H. Schwindt, Bremen, Germany. Clarifying extracts containing tannin. No. 979,656; Dec. 27; Sp. p. 4837; Gaz. vol. 161; p. 849.
Damon, Charles A., assignor to Cyphers Incubator Company, Buffalo, N. Y. Heater for incubators and brooders. No. 978,990; Dec. 20; Sp. p. 3394; Gaz. vol. 161; p. 597.
Damon, George B., Glenside, Pa. Gas-burner for heating purposes. No. 971,429; Sept. 27; Sp. p. 4823; Gaz. vol. 158; p. 844.
Damon, George L., Pittsburg, Pa. Door for safes and vaults. No. 952,980; Mar. 22; Sp. p. 5143; Gaz. vol. 152; p. 924.
Damon, George L., Pittsburg, Pa. Locking mechanism for safes. No. 952,981; Mar. 22; Sp. p. 5145; Gaz. vol. 152; p. 924.
Damon, George L., Pittsburg, Pa. Construction of vestibules of armor-plate vaults. No. 954,670; Apr. 12; Sp. p. 2097; Gaz. vol. 153; p. 368.
Damon, George L., Pittsburg, Pa. Controlling device for bolt-operating mechanisms. No. 956,889; May 3; Sp. p. 850; Gaz. vol. 154; p. 135.
Damon, William E., Bowling Green, Ky. Disintegrator. No. 963,122; July 5; Sp. p. 251; Gaz. vol. 156; p. 33.
Damon, William H., New York, N. Y. Flue-cutter. No. 946,204; Jan. 11; Sp. p. 2625; Gaz. vol. 150; p. 436.
Damron, Frank E., assignor of one-third to H. F. Minter, Roanoke, Va. Railway-track drill. No. 970,312; Sept. 13; Sp. p. 2500; Gaz. vol. 158; p. 421.
Dana, Martha W., Ottawa, Ill. Watch-pocket. No. 964,620; July 19; Sp. p. 3476; Gaz. vol. 156; p. 594.
Danaher, John W., assignor of one-half to E. E. Slaght, Toronto, Ontario, Canada. Gas-meter. No. 974,775; Nov. 8; Sp. p. 1581; Gaz. vol. 160; p. 266.
Danbeck, Joseph, and V. Lawrence, Bloomfield, N. J. Fountain-brush. No. 950,612; Mar. 1; Sp. p. 314; Gaz. vol. 152; p. 51.
Dancy, William R., and C. B. Westcott, Savannah, Ga. Safety-pin. No. 959,472; May 31; Sp. p. 6596; Gaz. vol. 154; p. 1125.
Dandridge, Edmund P., and J. B. Cessna, Pittsburg, Pa. Coal-washing apparatus. No. 959,473; May 31; Sp. p. 6598; Gaz. vol. 154; p. 1126.
Dandurand, Pierre, Jr. (See Robert, Zephir J., assignor.)
Dane, Sidney B., Lynn, Mass. Supply-controller for washing-machines. No. 945,083; Jan. 4; Sp. p. 162; Gaz. vol. 150; p. 27.
Danek, David H., Chicago, Ill. Tooth-brush. No. 958,371; May 17; Sp. p. 4309; Gaz. vol. 154; p. 703.
Danenmark, Jacob, New York, N. Y. Sewing-machine. No. 956,300; Apr. 26; Sp. p. 5678; Gaz. vol. 153; p. 988.
Danforth, Albert H., Monson, Mass. Builder's bracket. No. 968,836; Aug. 30; Sp. p. 6401; Gaz. vol. 157; p. 1116.
Danforth, Montgomery E., Washington, D. C., assignor to United States Radiator Company, Dunkirk, N. Y. Wall-box for air-pipes. No. 945,707; Jan. 4; Sp. p. 1496; Gaz. vol. 150; p. 234.
Dangerfield, John L., Princeton, W. Va. Churn. No. 968,135; Aug. 23; Sp. p. 4888; Gaz. vol. 157; p. 848.
Daniel, Albert J., Boone, Iowa. Dipper for ice-cream cones. No. 953,901; Apr. 5; Sp. p. 432; Gaz. vol. 153; p. 78.
Daniel, Charles A. (See Zeglen, Casimir, assignor.)
Daniel, Everett, Moultrie, Ga. Boot. No. 951,986; Mar. 15; Sp. p. 3105; Gaz. vol. 152; p. 560.
Daniel, Paul, assignor to B. G. Paskus, New York, N. Y. Internal-combustion engine. No. 957,657; May 10; Sp. p. 2455; Gaz. vol. 154; p. 425.
Daniel, Paul, Perth Amboy, N. J., assignor to A. C. King, New York, N. Y. Carbureter. No. 973,262; Oct. 18; Sp. p. 3867; Gaz. vol. 159; p. 661.
Daniel, Paul, Perth Amboy, N. J., assignor to A. C. King, New York, N. Y. Carbureter. No. 974,033; Oct. 25; Sp. p. 5494; Gaz. vol. 159; p. 953.
Daniel, Paul, Perth Amboy, N. J., assignor to A. C. King, New York, N. Y. Controlling means for aeroplanes. No. 980,073; Dec. 27; Sp. p. 5738; Gaz. vol. 161; p. 987.
Daniel, Percy G. E., Clevedon, and C. A. H. Bullock, London, England. Stamp-affixer. No. 957,658; May 10; Sp. p. 2457; Gaz. vol. 154; p. 425.
Daniell, Frederick H. (See Hebden and Daniell.)

Alphabetical list of patentees—Continued.

Daniell, Frederick H., deceased; M. B. Daniell, executrix, Franklin, N. H. Cop-tube. No. 974,126; Nov. 1; Sp. p. 41; Gaz. vol. 160; p. 10.
Daniell, Frederick H., deceased, Franklin, N. H., (M. B. Daniell, executrix,) and J. C. Hebden, Providence, R. I. Packing yarn for dyeing. No. 974,127; Nov. 1; Sp. p. 43; Gaz. vol. 160; p. 10.
Daniell, Mary B., executrix. (See Daniell, Frederick H.)
Daniell, Mary B., executrix. (See Daniell and Hebden.)
Daniell, Mary B., executrix. (See Hebden and Daniell.)
Daniels, Eugene O., Toledo, Ohio. Sash-lock. No. 954,617; Apr. 12; Sp. p. 1966; Gaz. vol. 153; p. 349.
Daniels, Fred H., Worcester, Mass. Rolling-mill. No. 956,301; Apr. 26; Sp. p. 5681; Gaz. vol. 153; p. 989.
Daniels, Fred H., Worcester, Mass. Treating rolled metal flats and the like. No. 956,302; Apr. 26; Sp. p. 5683; Gaz. vol. 153; p. 989.
Daniels, Fred H., Worcester, Mass. Charging apparatus. No. 956,890; May 3; Sp. p. 852; Gaz. vol. 154; p. 135.
Daniels, George E., Elgin, Ill. Means for treating seed-grain. No. 946,205; Jan. 11; Sp. p. 2626; Gaz. vol. 150; p. 437.
Daniels, Harry R., Dresden, Ontario, Canada. Protector for eaves-troughs. No. 960,835; June 7; Sp. p. 1207; Gaz. vol. 155; p. 201.
Daniels, John J., Rockford, Ill. Folding umbrella or parasol. No. 973,859; Oct. 25; Sp. p. 5129; Gaz. vol. 159; p. 891.
Daniels, Laura E., Fort Worth, Tex. Steam-cooker. No. 966,661; Aug. 9; Sp. p. 1765; Gaz. vol. 157; p. 301.
Daniels, Lewis, Philadelphia, Pa. Folding desk. No. 960,836; June 7; Sp. p. 1208; Gaz. vol. 155; p. 201.
Daniels, Richard F., Chicago, Ill. Machine for making nets. No. 979,828; Dec. 27; Sp. p. 5224; Gaz. vol. 161; p. 906.
Daniels, Samuel, Hardwick, Vt. Maple-sap evaporator. No. 974,475; Nov. 1; Sp. p. 918; Gaz. vol. 160; p. 136.
Daniels, Thomas M., assignor to Safety Fuse Cap Company, Chicago, Ill. Waterproof fuse-cap. No. 964,219; July 12; Sp. p. 2590; Gaz. vol. 156; p. 427.
Daniels, Thomas M., assignor to Safety Fuse Cap Company, Chicago, Ill. Protector for safety fuse-caps. No. 966,171; Aug. 2; Sp. p. 712; Gaz. vol. 157; p. 112.
Danielsen, Wilhelm G., Independence, Mo. Plow. No. 966,662; Aug. 9; Sp. p. 1767; Gaz. vol. 157; p. 302.
Danielsen, Wilhelm G., Independence, Mo. Disk-mount. No. 966,663; Aug. 9; Sp. p. 1768; Gaz. vol. 157; p. 302.
Danielson, August A., assignor of one-third to C. T. Johnson and one-third to H. A. Larson, Jamestown, N. Y. Water-filter. No. 968,744; Aug. 30; Sp. p. 6221; Gaz. vol. 157; p. 1087.
Danielson, Gustave F., Youngstown, Ohio. Seeding-machine boot. No. 953,902; Apr. 5; Sp. p. 433; Gaz. vol. 153; p. 79.
Danielson, Henry H., Logan, Utah. Dehorner. No. 947,097; Jan. 18; Sp. p. 4637; Gaz. vol. 150; p. 765.
Daningburg, William J., New York, N. Y. Attachment for printing-presses. No. 978,704; Dec. 13; Sp. p. 2785; Gaz. vol. 161; p. 474.
Danis, Joseph A., Burlington, Vt. Metal horn. No. 967,618; Aug. 16; Sp. p. 3798; Gaz. vol. 157; p. 652.
Danischevski, Joseph, St. Petersburg, Russia. Cleaning device for hydrocarbon-vaporizers. No. 947,056; Jan. 18; Sp. p. 4552; Gaz. vol. 150; p. 751.
Danison, Arthur, Blue Earth, Minn. Corn-popper. No. 971,255; Sept. 27; Sp. p. 4510; Gaz. vol. 158; p. 789.
Danker, Earl C., Riverton, Nebr. Safety-key windmill-coupling. No. 954,671; Apr. 12; Sp. p. 2099; Gaz. vol. 153; p. 368.
Dann, Elonzo P., Kissimmee, Fla. Grooving-tool. No. 968,745; Aug. 30; Sp. p. 6222; Gaz. vol. 157; p. 1088.
Dannacher, Oliver A., Greensburg, Ind. Safety-razor. No. 978,705; Dec. 13; Sp. p. 2787; Gaz. vol. 161; p. 474.
Danne, Harold A., Clarksburg, W. Va. Electric furnace. No. 958,855; May 24; Sp. p. 5314; Gaz. vol. 154; p. 895.
Dannelly, Frank M., Dallas, Tex. Cotton-picker. No. 951,059; Mar. 1; Sp. p. 1203; Gaz. vol. 152; p. 198.
Danner, Adam, Yonkers, N. Y. Barrel-scrubbing machine. No. 957,659; May 10; Sp. p. 2463; Gaz. vol. 154; p. 425.
Danner, Gola. (See Caswell, Luther A., assignor.)
Dannheiser, Joseph, San Francisco, Cal. Filing-cabinet clamp. No. 950,440; Feb. 22; Sp. p. 5605; Gaz. vol. 151; p. 982.
Danquard, Thomas, assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Pneumatic motor. No. 957,751; May 10; Sp. p. 2650; Gaz. vol. 154; p. 457.
Danquard, Thomas, assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Regulator for pneumatic motors. No. 957,752; May 10; Sp. p. 2652; Gaz. vol. 154; p. 457.
Danquard, Thomas, and F. O. Pfannstiehl, assignors to C. Kohler, New York, N. Y. Piano. No. 948,391; Feb. 8; Sp. p. 1290; Gaz. vol. 151; p. 231.
Dansk Patent Kontor Aktieselskab. (See Hansen, Peter J., assignor.)
Danver, James H., Beaver, assignor to United States Sanitary Manufacturing Company, Pittsburg, Pa. Lavatory. No. 962,892; June 28; Sp. p. 5587; Gaz. vol. 155; p. 977.
Danziger, Joseph, Chicago, Ill. Clothes-holder. No. 953,410; Mar. 29; Sp. p. 6101; Gaz. vol. 152; p. 1096.
Daprato, John J., Tuckahoe district, Va., assignor to The American Tobacco Company, Newark, N. J. Cigarette-machine. No. 976,441; Nov. 22; Sp. p. 5227; Gaz. vol. 160; p. 887.
Darapsky, Ludwig H., assignor to Deseniss & Jacobi Aktiengesellschaft, Hamburg, Germany. Apparatus for freeing water from its contained iron in a continuous circuit. No. 973,263; Oct. 18; Sp. p. 3870; Gaz. vol. 159; p. 662.
Darby, Averno A. and J. F., assignors of one-third to A. A. Darby, one-third to W. T. Jenkins, and one-third to M. Leader, Vidalia, Ga. Nut-lock. No. 955,054; Apr. 12; Sp. p. 2948; Gaz. vol. 153; p. 499.
Darby, James F. (See Darby, Averno A. and J. F.)
Darby, John, Summit, N. J. Lamp-socket. No. 972,343; Oct. 11; Sp. p. 1793; Gaz. vol. 159; p. 315.
Darche, Harry P., and A. Schwer, Buffalo, N. Y. Support for menu-cards, newspapers, and other articles. No. 948,955; Feb. 8; Sp. p. 2468; Gaz. vol. 151; p. 419.
Darcy, Frederick, Philadelphia, Pa. Chain gearing and spacing mechanism. No. 978,007; Dec. 6; Sp. p. 1259; Gaz. vol. 161; p. 202.
Darden, John A., Good Water, Ala. Picture-hanger. No. 955,854; Apr. 26; Sp. p. 4687; Gaz. vol. 153; p. 833.
Darden, John A., Good Water, Ala. Adjustable picture-hanger. No. 964,400; July 12; Sp. p. 2952; Gaz. vol. 156; p. 487.
Darden, Robert L., Juliette, Ga. Cotton-chopper. No. 979,264; Dec. 20; Sp. p. 4027; Gaz. vol. 161; p. 693.
Dargin, Ernest P., assignor to M. E. Dargin, Denver, Colo. Filter-bag. No. 957,191; May 10; Sp. p. 1481; Gaz. vol. 154; p. 265.
Dargin, Ernest P., assignor to M. E. Dargin, Denver, Colo. Filtering apparatus. No. 959,844; May 31; Sp. p. 7387; Gaz. vol. 154; p. 1251.
Dargin, Ernest P., assignor to M. E. Dargin, Denver, Colo. Rotary engine. No. 967,108; Aug. 9; Sp. p. 2751; Gaz. vol. 157; p. 451.
Dargin, Mary E. (See Dargin, Ernest P., assignor.)
Darke, Jesse M., Lynn, Mass., assignor to General Electric Company. Steel manufacture. No. 967,335; Aug. 16; Sp. p. 3215; Gaz. vol. 157; p. 557.
Darley, William W., Pittsburg, Pa. Apparatus for handling ashes and other materials. No. 968,542; Aug. 30; Sp. p. 5768; Gaz. vol. 157; p. 1015.
Darling, Dorr, Jonesville, Mich. Fence-post. No. 968,543; Aug. 30; Sp. p. 5770; Gaz. vol. 157; p. 1015.
Darling, James D., Philadelphia, Pa., assignor to Keystone Trading Company. Manufacture of chewing-gum. No. 947,635; Jan. 25; Sp. p. 5867; Gaz. vol. 150; p. 974.
Darling, Philip G. (See Blanchard, Crocker, and Darling.)
Darling, Richard S., New York, N. Y. Sanitary garbage-can receptacle. No. 971,731; Oct. 4; Sp. p. 474; Gaz. vol. 159; p. 82.
Darlington, Thomas. (See Hammond, Grant, assignor.)
Darlinton, George W., Los Angeles, Cal. Storm window or screen hanger. No. 974,953; Nov. 8; Sp. p. 1991; Gaz. vol. 160; p. 328.
Darmstädter, Georg, assignor to C. Schenck, Eisengiesserei & Maschinenfabrik, Gesellschaft mit beschränkter Haftung, Darmstadt, Germany. Steelyard. No. 960,837; June 7; Sp. p. 1210; Gaz. vol. 155; p. 201.
Darnell, Elmer F., Hillsboro, Ill. Telescopic gun-rod. No. 945,491; Jan. 4; Sp. p. 1056; Gaz. vol. 150; p. 163.
Darr, Barbara A. (See Forbes and Darr.)
Darr, Charles A., Leavenworth, Kans. Adding-machine. No. 957,753; May 10; Sp. p. 2655; Gaz. vol. 154; p. 458.
Darr, John M., St. Louis, Mo. Woodworker's press for glued work. No. 974,240; Nov. 1; Sp. p. 357; Gaz. vol. 160; p. 51.
Darrach, Angus, Sarnia, Ontario, Canada. Back-stop for sliding doors. No. 961,758; June 21; Sp. p. 3139; Gaz. vol. 155; p. 564.
Darracq, Pierre A., assignor to Société A. Darracq & Cie. (1905) Limited, Suresnes, France. Explosion-engine. No. 961,938; June 21; Sp. p. 3534; Gaz. vol. 155; p. 623.
Darragh, Edwin E., *et al.* (See Hunt and La May, assignors.)
Darras, Alphonse J. B. E., Paris, France. Taximeter. No. 948,371; Feb. 8; Sp. p. 1244; Gaz. vol. 151; p. 225.
Darras, Alphonse J.-B. E., Paris, France. Taximeter. No. 963,281; July 5; Sp. p. 649; Gaz. vol. 156; p. 91.
Darrow, Ben O., Kern, assignor to G. W. Maxwell, San Francisco, Cal. Container. No. 964,621; July 19; Sp. p. 3477; Gaz. vol. 156; p. 594.
Darrow, Frank H., Albion, Mich. Fishing-line-drying reel. No. 967,734; Aug. 16; Sp. p. 4035; Gaz. vol. 157; p. 691.
Darrow, William H., Traverse City, Mich. Game apparatus. No. 960,512; June 7; Sp. p. 549; Gaz. vol. 155; p. 91.
Darst, James C., Roanoke, Va. Receptacle for cigarette-holders. No. 974,128; Nov. 1; Sp. p. 46; Gaz. vol. 160; p. 10.
Darwin, Roy R., Lansing, Mich. Temporary binder. No. 960,279; June 7; Sp. p. 79; Gaz. vol. 155; p. 17

Alphabetical list of patentees—Continued.

Dasey, Percy J., assignor of one-half to T. J. Wetzel, New York, N. Y. Carbureter. No. 950,278; Feb. 22; Sp. p. 5307; Gaz. vol. 151; p. 930.

Dasher, Charles H., Oakland, Cal. Purifying alkaline chlorids. No. 956,303; Apr. 26; Sp. p. 5685; Gaz. vol. 153; p. 989.

Daub, Firm of Andreas. (See Kunzmann and Stierle, assignors.)

Daubenspeck, Henry C. (See Dager, George C., assignor.)

Dauber, Charles G., Oshkosh, Wis. Machine for gluing dowel-doors. No. 964,401; July 12; Sp. p. 2953; Gaz. vol. 156; p. 488.

Daubert, Harry J., Tamaqua, Pa. Car-coupling. No. 960,077; May 31; Sp. p. 7934; Gaz. vol. 154; p. 1332.

Dauch, J. J., *et al.* (See Millspaugh, William H., assignor.) (Reissue.)

Daugherty, Jeremiah H., Royalton, Pa. Shutter-hinge. No. 956,304; Apr. 26; Sp. p. 5686; Gaz. vol. 153; p. 990.

Daugherty, Sherman B., and S. F. Johnson, Indianapolis, Ind. Magneto-electric machine. No. 975,401; Nov. 15; Sp. p. 2973; Gaz. vol. 160; p. 505.

Daugherty, William H., Jasonville, Ind. Car-wheel. No. 974,363; Nov. 1; Sp. p. 653; Gaz. vol. 160; p. 98.

Daum, Albert F., Pittsburg, Pa. Cartridge-fuse. No. 961,716; June 14; Sp. p. 3037; Gaz. vol. 155; p. 526.

Daum, Lewis L., Canton, Ohio. Resilient wheel. No. 979,265; Dec. 20; Sp. p. 4029; Gaz. vol. 161; p. 693.

Daumeyer, Nicholas F., Norwood, Ohio. Dish-stand. No. 948,476; Feb. 8; Sp. p. 1466; Gaz. vol. 151; p. 260.

Daumeyer, Nicholas F., Norwood, Ohio. Flour-sifter. No. 967,109; Aug. 9; Sp. p. 2753; Gaz. vol. 157; p. 452.

Dauner, Louis F. (See Dauner, William J. and L. F.)

Dauner, William J. and L. F., Sutton, Nebr. Feeding mechanism for corn-shellers. No. 974,476; Nov. 1; Sp. p. 923; Gaz. vol. 160; p. 137.

Dautrey, Andrew L., Quincy, Ill. Garment. No. 955,055; Apr. 12; Sp. p. 2949; Gaz. vol. 153; p. 500.

Davenport, Eugene F., Melrose, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-marking machine. No. 968,746; Aug. 30; Sp. p. 6223; Gaz. vol. 157; p. 1088.

Davenport, Isaac L., Camden, N. J., assignor of one-half to F. A. Cavanagh, Ashbourne, Pa. Computing device. No. 953,321; Mar. 29; Sp. p. 5888; Gaz. vol. 152; p. 1063.

Davenport, Ralph, Chicago, Ill. Dumping-car. No. 963,282; July 5; Sp. p. 653; Gaz. vol. 156; p. 91.

Davenport, William S., Springfield, Mass. Metal-working machine. No. 963,691; July 5; Sp. p. 1444; Gaz. vol. 156; p. 227.

Davey, Charles E., Detroit, Mich. Valve. No. 949,115; Feb. 15; Sp. p. 2816; Gaz. vol. 151; p. 498.

Davey, John F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Pegging-machine. No. 973,009; Oct. 18; Sp. p. 3307; Gaz. vol. 159; p. 575.

Davey, Paul N., Carthage, Mo. Elevator. No. 949,266; Feb. 15; Sp. p. 3119; Gaz. vol. 151; p. 549.

Davey, Wellington E., Kent, Ohio. Reinforcing trees. No. 957,940; May 17; Sp. p. 3070; Gaz. vol. 154; p. 550.

Davey, Wellington E., Kent, Ohio. Reinforcing trees. No. 958,234; May 17; Sp. p. 3874; Gaz. vol. 154; p. 654.

Davey, Wellington E., Kent, Ohio. Reinforcing trees. No. 958,478; May 17; Sp. p. 4522; Gaz. vol. 154; p. 740.

David, Abe J., *et al.* (See Knobbs, Charles H., assignor.)

David Cole Creamery Company. (See Snively, Edwin S., assignor.)

David Craig Company, The. (See Craig, David, assignor.)

David, Emma, Chico, Cal. Skirt-marker. No. 958,601; May 17; Sp. p. 4761; Gaz. vol. 154; p. 782.

David Lupton's Sons Company. (See Brogden, Joah, assignor.)

Davidoff, Louis, assignor of one-half to A. Spelke, Stamford, Conn. Combined shoe-horn and button-hook. No. 966,172; Aug. 2; Sp. p. 713; Gaz. vol. 157; p. 112.

Davidoff, Louis, assignor of one-half to A. Spelke, Stamford, Conn. Combined shoe-horn and button-hook. No. 969,944; Sept. 13; Sp. p. 1729; Gaz. vol. 158; p. 297.

Davidoff, Louis, assignor of one-half to A. Spelke, Stamford, Conn. Combined shoe-horn and button-hook. No. 969,945; Sept. 13; Sp. p. 1730; Gaz. vol. 158; p. 297.

Davidson, Benjamin H. (See Brookes and Davidson.)

Davidson, Charles E., and B. I. Mauldin, Ozona, Tex. Nut-lock. No. 949,624; Feb. 15; Sp. p. 3847; Gaz. vol. 151; p. 670.

Davidson, Charles J. (See Sellers and Davidson.)

Davidson, Emil, Sharon, N. D. Attachment for plows. No. 969,091; Aug. 30; Sp. p. 6913; Gaz. vol. 157; p. 1203.

Davidson, Frank E., Cedarhurst, N. Y. Railway-tie. No. 956,045; Apr. 26; Sp. p. 5101; Gaz. vol. 153; p. 900.

Davidson, Frank B., Marseilles, Ill., assignor to Howe and Davidson Company, East Orange, N. J. Container. No. 958,372; May 17; Sp. p. 4310; Gaz. vol. 154; p. 704.

Davidson, Gilbert H., Morenci, Ariz. Sand-wheel. No. 975,331; Nov. 8; Sp. p. 2820; Gaz. vol. 160; p. 456.

Davidson, Harry J., Washington, D. C. Cigar-vending machine. No. 963,999; July 12; Sp. p. 2159; Gaz. vol. 156; p. 353.

Davidson, James. (See Ferguson, James S., assignor.)

Davidson, James E., Butte, Mont. Valve. No. 978,706; Dec. 13; Sp. p. 2788; Gaz. vol. 161; p. 474.

Davidson, John E., Toronto, Ontario, Canada, assignor of one-half to F. E. Wachtler, Boston, Mass. Forming shanks for boots and shoes. No. 978,278; Dec. 13; Sp. p. 1871; Gaz. vol. 161; p. 328.

Davidson, John L., Barnet, Vt. Fly-catcher. No. 979,443; Dec. 27; Sp. p. 4374; Gaz. vol. 161; p. 774.

Davidson, Max, Ogden, Utah. Box-lid holder. No. 977,278; Nov. 29; Sp. p. 7052; Gaz. vol. 160; p. 1200.

Davidson, Nils O., Macoun, Saskatchewan, Canada. Boat attachment for delivering seines into the water. No. 963,211; July 5; Sp. p. 479; Gaz. vol. 156; p. 66.

Davidson, Nils O., Macoun, Saskatchewan, Canada. Smoke-house. No. 973,010; Oct. 18; Sp. p. 3311; Gaz. vol. 159; p. 575.

Davidson, Peter G., assignor of one-half to H. C. Stenshoel, Valley City, N. D. Weed-burner. No. 947,297; Jan. 25; Sp. p. 5086; Gaz. vol. 150; p. 859.

Davidson, Sigurdur, Winnipeg, Manitoba, Canada. Fire-escape. No. 952,239; Mar. 15; Sp. p. 3581; Gaz. vol. 152; p. 644.

Davidson, William F. (See Stephens, Davidson, and Smith.)

Davies, Alfred E., Birmingham, England. Apparatus for separating magnetic materials from other materials or from liquids. No. 979,934; Dec. 27; Sp. p. 5444; Gaz. vol. 161; p. 940.

Davies, Alfred H., Akron, Ohio. Gas-heated sad-iron. No. 973,011; Oct. 18; Sp. p. 3312; Gaz. vol. 159; p. 575.

Davies Automatic Shear Company. (See Davies, Frederick D., assignor.)

Davies, Charles W. T., New York, N. Y. Shirt. No. 947,434; Jan. 25; Sp. p. 5408; Gaz. vol. 150; p. 966.

Davies, Charles W. T., New York, N. Y. Necktie. No. 963,360; July 5; Sp. p. 793; Gaz. vol. 156; p. 117.

Davies, Charles W. T., New York, N. Y. Necktie. No. 964,496; July 19; Sp. p. 3174; Gaz. vol. 156; p. 551.

Davies, Charles W. T., New York, N. Y. Necktie. No. 965,372; July 26; Sp. p. 5122; Gaz. vol. 156; p. 879.

Davies, Charles W. T., New York, N. Y. Body-garment. No. 970,427; Sept. 13; Sp. p. 2716; Gaz. vol. 158; p. 458.

Davies, Frederick D., assignor to Davies Automatic Shear Company, New York, N. Y. Shears. No. 975,515; Nov. 15; Sp. p. 3206; Gaz. vol. 160; p. 546.

Davies, George L. (See Vivian, Davies, and Grote.)

Davies, John M., Plattsburg, N. Y. Horse-bonnet. No. 960,840; June 7; Sp. p. 1216; Gaz. vol. 155; p. 202.

Davies, John M., Plattsburg, N. Y. Ventilator for hats. No. 970,894; Sept. 20; Sp. p. 3762; Gaz. vol. 158; p. 642.

Davies, Joseph B., Melbourne, and H. Bell, South Melbourne, Victoria, Australia. Machine for forming enlarged or extended heads upon nails and the like. No. 955,635; Apr. 19; Sp. p. 4192; Gaz. vol. 153; p. 729.

Davies, Richard, San Francisco, Cal. Trousers hanger and stretcher. No. 972,602; Oct. 11; Sp. p. 2387; Gaz. vol. 159; p. 407.

Davies, Roderick W., assignor of one-half to W. K. Doty, Columbus, Ohio. Dump-car. No. 966,530; Aug. 9; Sp. p. 1499; Gaz. vol. 157; p. 257.

Davies, Roderick W., assignor of one-half to W. K. Doty, Columbus, Ohio. Underframe for cars. No. 968,031; Aug. 23; Sp. p. 4660; Gaz. vol. 157; p. 814.

Davies, Roderick W., assignor of one-half to W. K. Doty, Columbus, Ohio. Dump-car. No. 969,462; Sept. 6; Sp. p. 644; Gaz. vol. 158; p. 103.

Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Steam-generating apparatus for automobiles. No. 974,129; Nov. 1; Sp. p. 47; Gaz. vol. 160; p. 11.

Davis, Albert L., Grand Rapids, Mich. Slicing-machine. No. 968,134; Aug. 23; Sp. p. 4886; Gaz. vol. 157; p. 848.

Davis, Alexander C., Battle Ground, Ind. Wagon attachment. No. 952,000; Mar. 15; Sp. p. 3133; Gaz. vol. 152; p. 565.

Davis, Alexander E., Belleville, Kans. Self-dumping hay-sweep. No. 957,456; May 10; Sp. p. 2058; Gaz. vol. 154; p. 357.

Davis, Alfred U., Lutherville, Md. Mining-machine. No. 974,645; Nov. 1; Sp. p. 1292; Gaz. vol. 160; p. 199.

Davis, Anthony E., assignor to American Bar Lock Company, Philadelphia, Pa. Metallic-frame roof construction for buildings. No. 952,001; Mar. 15; Sp. p. 3135; Gaz. vol. 152; p. 565.

Davis, Arthur H. (See Broberg, Karl T., assignor.)

Davis, Asa W., Bridgeport, Conn. Machine for freezing ice-cream. No. 967,503; Aug. 16; Sp. p. 3576; Gaz. vol. 157; p. 613.

Davis, Augustin I., Lowell, Mass., assignor to American Mason Safety Tread Company, Saco, Me. Safety-tread for stairs and steps. No. 973,346; Oct. 18; Sp. p. 4041; Gaz. vol. 159; p. 692.

Davis, Benjamin A., Elwood, Iowa. Combined book and type-writer stand. No. 969,247; Sept. 6; Sp. p. 215; Gaz. vol. 158; p. 35.

Davis, Bethuel M., Chicago, Ill. Automatic vending-machine. No. 977,437; Dec. 6; Sp. p. 18; Gaz. vol. 161; p. 6.

Davis Brake Shoe Company. (See Davis, John H., assignor.)

Alphabetical list of patentees—Continued.

Davis Briquet Company. (See Davis, John T., assignor.)
Davis, Calvin R., assignor to Oliver Chilled Plow Works, South Bend, Ind. Sulky-plow. No. 967,110; Aug. 9; Sp. p. 2754; Gaz. vol. 157; p. 452.
Davis, Charles E., assignor, by mesne assignments, to Goodman Manufacturing Company, Chicago, Ill. Locomotive. (Reissue.) No. 13,092; Mar. 8; Sp. p. 2705; Gaz. vol. 152; p. 467.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Chain for mining-machines. No. 967,884; Aug. 23; Sp. p. 4331; Gaz. vol. 157; p. 764.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 967,885; Aug. 23; Sp. p. 4332; Gaz. vol. 157; p. 764.
Davis, Charles H., New York, N. Y. Musical-instrument attachment. No. 946,340; Jan. 11; Sp. p. 2923; Gaz. vol. 150; p. 485.
Davis, Charles H., Pittsburg, Pa. Trolley-clamp. No. 949,855; Feb. 22; Sp. p. 4439; Gaz. vol. 151; p. 793.
Davis, Charles L. (See Roberts and Davis.)
Davis, Charles L., Detroit, Mich. Power-pneumatic. No. 947,571; Jan. 25; Sp. p. 5735; Gaz. vol. 150; p. 952.
Davis, Charles L., Detroit, Mich., assignor, by mesne assignments, to A. M. Belfield and J. P. Mentzer, trustees, Chicago, Ill. Adjustable valve for piano-player actions. No. 961,939; June 21; Sp. p. 3535; Gaz. vol. 155; p. 623.
Davis, Charles L., Detroit, Mich., assignor, by mesne assignments, to A. M. Belfield and J. P. Mentzer, trustees, Chicago, Ill. Automatic musical instrument. No. 962,130; June 21; Sp. p. 3973; Gaz. vol. 155; p. 690.
Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburg, Pa. Terminal for electric cables. (Reissue.) No. 13,145; Aug. 23; Sp. p. 5700; Gaz. vol. 157; p. 982.
Davis, Claude B., Manchester, Va., assignor of one-half to F. Hall, Ridgefield, N. J. Cloth-holder for brooms and brushes. No. 964,402; July 12; Sp. p. 2954; Gaz. vol. 156; p. 488.
Davis, Cleland, U. S. Navy. Contour-cap for projectiles. No. 945,492; Jan. 4; Sp. p. 1058; Gaz. vol. 150; p. 163.
Davis, Cleland, U. S. Navy. Gyroscopically-controlled torpedo-firing apparatus. No. 972,064; Oct. 4; Sp. p. 1204; Gaz. vol. 159; p. 204.
Davis, Cleland, U. S. Navy, assignor, by mesne assignments, to National Torpedo Company, New York, N. Y. Torpedo. No. 964,147; July 12; Sp. p. 2460; Gaz. vol. 156; p. 404.
Davis, Cleland, U. S. Navy, assignor, by mesne assignments, to National Torpedo Company, New York, N. Y. Torpedo. No. 964,148; July 12; Sp. p. 2462; Gaz. vol. 156; p. 404.
Davis, Cleland, U. S. Navy, assignor, by mesne assignments, to Carnegie Steel Company, Pittsburg, Pa. Manufacture of hardened-steel projectiles. No. 970,428; Sept. 13; Sp. p. 2718; Gaz. vol. 158; p. 459.
Davis, Cleveland G., Manistee, Mich. Double-wheeled step-ladder. No. 970,690; Sept. 20; Sp. p. 3322; Gaz. vol. 158; p. 571.
Davis, Daniel T., Worley, N. C. Calendar. No. 974,754; Nov. 1; Sp. p. 1532; Gaz. vol. 160; p. 235.
Davis, Edward S., Jr., Montrose, Kans. Cattle food. No. 949,416; Feb. 15; Sp. p. 3452; Gaz. vol. 151; p. 602.
Davis, Edwin F., Corning, N. Y. Railway-tie. No. 966,531; Aug. 9; Sp. p. 1501; Gaz. vol. 157; p. 257.
Davis, Emry, Brooklyn, N. Y. Ventilating device for sleeping-cars. No. 973,413; Oct. 18; Sp. p. 4195; Gaz. vol. 159; p. 714.
Davis, Ernest W., assignor to E. R. Dull, Chicago, Ill. Moving-picture toy. No. 972,344; Oct. 11; Sp. p. 1796; Gaz. vol. 159; p. 315.
Davis, Eugene H. (See Lacroix, Joseph D., assignor.)
Davis, Evan J., Prosser, Wash. Decoy. No. 977,787; Dec. 6; Sp. p. 810; Gaz. vol. 161; p. 126.
Davis, Fitzwilliam R., Kew Gardens, England. Carbureter for internal-combustion engines. No. 970,429; Sept. 13; Sp. p. 2720; Gaz. vol. 158; p. 459.
Davis, Frank A., Boston, Mass. Monopolar vacuum-tube. No. 950,842; Mar. 1; Sp. p. 814; Gaz. vol. 152; p. 130.
Davis, Frank C., Tucson, Ariz. Dust-blowing attachment for brooms, brushes, and the like. No. 954,260; Apr. 5; Sp. p. 1195; Gaz. vol. 153; p. 200.
Davis, Frank E., La Crosse, Wis. Seeding-machine. No. 964,761; July 19; Sp. p. 3860; Gaz. vol. 156; p. 643.
Davis, Frank E., La Crosse, Wis. Plow. No. 964,762; July 19; Sp. p. 3868; Gaz. vol. 156; p. 643.
Davis, Frank E., Indianapolis, Ind. Spiral tool-driver. No. 979,132; Dec. 20; Sp. p. 3739; Gaz. vol. 161; p. 647.
Davis, Frank E., assignor of one-half to A. Hirshheimer, La Crosse, Wis. Cultivator. No. 964,763; July 19; Sp. p. 3875; Gaz. vol. 156; p. 644.
Davis, Frank M., Butler, Pa. Milk extract of wild spikenard. No. 976,051; Nov. 15; Sp. p. 4295; Gaz. vol. 160; p. 728.
Davis, Frank S., Detroit, Mich. Package-lining. No. 956,046; Apr. 26; Sp. p. 5102; Gaz. vol. 153; p. 900.
Davis, Fred E., Bessemer, Ala. Vehicle-lantern. No. 974,034; Oct. 25; Sp. p. 5497; Gaz. vol. 159; p. 953.
Davis & Furber Machine Company. (See Rundlett, William D., assignor.)
Davis & Furber Machine Company. (See Stevens, Frank C., assignor.)
Davis, G. Howlett. (See Kreuzkamp and Bowman, assignors.)
Davis, George C., and W. A. Daley, assignors to George M. Davis Regulator Company, Chicago, Ill. Stop and check valve. No. 957,311; May 10; Sp. p. 1759; Gaz. vol. 154; p. 308.
Davis, George C., and W. A. Daley, assignors to George M. Davis Regulator Company, Chicago, Ill. Pressure-regulator. No. 959,474; May 31; Sp. p. 6600; Gaz. vol. 154; p. 1126.
Davis, George F. (See Kelley, Matthews, and Davis.)
Davis, George H., West Orange, N. J. Method of and apparatus for perforating music-rolls. No. 964,403; July 12; Sp. p. 2956; Gaz. vol. 156; p. 488.
Davis, George H., West Orange, N. J. Perforating music-sheets. No. 964,404; July 12; Sp. p. 2961; Gaz. vol. 156; p. 489.
Davis, George H., West Orange, N. J. Respooling device for music-rolls. No. 968,136; Aug. 23; Sp. p. 4889; Gaz. vol. 157; p. 849.
Davis, George H., New York, N. Y. Coin-controlled mechanism. No. 974,035; Oct. 25; Sp. p. 5498; Gaz. vol. 159; p. 953.
Davis, George H., Portland, Me., assignor, by mesne assignments, to The Curtain Supply Company, Chicago, Ill. Holding mechanism for spring-actuated shades. No. 966,085; Aug. 2; Sp. p. 514; Gaz. vol. 157; p. 83.
Davis, George M., Manchester, N. H. Starting device for explosion-engines. No. 952,788; Mar. 22; Sp. p. 4769; Gaz. vol. 152; p. 859.
Davis, George W. (See Fisher, Charles E., assignor.)
Davis, George W., Blossom, Tex. Cultivator. No. 974,241; Nov. 1; Sp. p. 358; Gaz. vol. 160; p. 51.
Davis, Green B. (See Libby and Davis.)
Davis, Green B., and J. A. McFarland, Linn Creek, Mo. Mold for concrete walls. No. 969,248; Sept. 6; Sp. p. 216; Gaz. vol. 158; p. 35.
Davis, Harold N., Luton Beds, and W. R. Twigg, West Dulwich, England. Radiator or other heating-stove heated by gaseous fuel. No. 971,119; Sept. 27; Sp. p. 4210; Gaz. vol. 158; p. 743.
Davis, Harry G. (See Campbell and Davis.)
Davis, Harry G., assignor to Electric Press Bulletin Company, Williamsport, Pa. Telegraph-transmitter apparatus. No. 978,435; Dec. 13; Sp. p. 2201; Gaz. vol. 161; p. 381.
Davis, Harry L., Seneca Falls, N. Y. Force-feed lubricator. No. 958,994; May 24; Sp. p. 5606; Gaz. vol. 154; p. 942.
Davis, Harry P., New Middletown, Ohio. Mail-box signal. No. 977,602; Dec. 6; Sp. p. 433; Gaz. vol. 161; p. 63.
Davis, Harry P., and T. Varney, Pittsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electric-line construction. No. 946,537; Jan. 18; Sp. p. 3443; Gaz. vol. 150; p. 578.
Davis, Henry E., Three Hills, Alberta, Canada. Plow attachment. No. 979,829; Dec. 27; Sp. p. 5236; Gaz. vol. 161; p. 906.
Davis, Henry J., Birmingham, Ala. Filing-cabinet. No. 962,749; June 28; Sp. p. 5309; Gaz. vol. 155; p. 927.
Davis, Herman, New Orleans, La. Wardrobe-trunk. No. 978,436; Dec. 13; Sp. p. 2205; Gaz. vol. 161; p. 382.
Davis, Homer L., East Aurora, assignor of one-third to M. T. Devaney, one-third to F. H. Rehler, and one-third to C. K. Ernst, Buffalo, N. Y. Weather-strip for doors. No. 974,242; Nov. 1; Sp. p. 361; Gaz. vol. 160; p. 52.
Davis, Irvin W., assignor of one-half to R. A. Nourse, Milwaukee, Wis. Door-hanger track and support. No. 946,694; Jan. 18; Sp. p. 3758; Gaz. vol. 150; p. 628.
Davis, Irvin W., and M. J. Evans, Milwaukee, assignors to Stowell Manufacturing and Foundry Company, South Milwaukee, Wis. Hay-carrier. No. 975,836; Nov. 15; Sp. p. 3871; Gaz. vol. 160; p. 654.
Davis, Irwin W. (See Nourse, Rupert A., assignor.)
Davis, Jack R., Duson, La. Wrench. No. 978,856; Dec. 20; Sp. p. 3080; Gaz. vol. 161; p. 547.
Davis, Jacob E., Ironton, Ohio. Gas heating-stove. No. 964,405; July 12; Sp. p. 2966; Gaz. vol. 156; p. 489.
Davis, James A. (See Davison, Henry J., assignor.) (Reissue.)
Davis, James C., Hinsdale, Ill., assignor to American Steel Foundries, New York, N. Y. Apparatus for drying molds. No. 962,553; June 28; Sp. p. 4906; Gaz. vol. 155; p. 859.
Davis, James C., Hinsdale, Ill., assignor to American Steel Foundries, New York, N. Y. Drying molds. No. 967,616; Aug. 16; Sp. p. 3794; Gaz. vol. 157; p. 651.
Davis, James F., Coalmont, Ind. Shaft attachment. No. 975,332; Nov. 8; Sp. p. 2822; Gaz. vol. 160; p. 456.
Davis, James R., Bartow, Fla. Plow-colter. No. 960,628; June 7; Sp. p. 801; Gaz. vol. 155; p. 131.
Davis, James W., Cleveland, Ohio. Lid or cover for shoe-polish boxes. No. 949,148; Feb. 15; Sp. p. 2883; Gaz. vol. 151; p. 510.
Davis, Jesse, Milan, Kans. Barber's stool. No. 969,347; Sept. 6; Sp. p. 418; Gaz. vol. 158; p. 67.

Alphabetical list of patentees—Continued.

Davis, John, Washington, D. C. Gas-burner. No. 949,676; Feb. 15; Sp. p. 3934; Gaz. vol. 151; p. 685.
Davis, John, Washington, D. C. Faucet or cock. No. 967,886; Aug. 23; Sp. p. 4334; Gaz. vol. 157; p. 765.
Davis, John B., and F. S. Adams, Wisner, Nebr. Wire-stretcher. No. 945,493; Jan. 4; Sp. p. 1060; Gaz. vol. 150; p. 163.
Davis, John F. (See Correjolles and Davis.)
Davis, John H., Hamilton, Ohio. Flush-valve mechanism. No. 970,471; Sept. 20; Sp. p. 2834; Gaz. vol. 158; p. 495.
Davis, John H., Brooklyn, assignor to Davis Brake Shoe Company, New York, N. Y. Brake-shoe. No. 974,243; Nov. 1; Sp. p. 363; Gaz. vol. 160; p. 52.
Davis, John M., McGraw, assignor of one-half to C. A. Metzler, Binghamton, N. Y. Aeroplane. No. 973,632; Oct. 25; Sp. p. 4664; Gaz. vol. 159; p. 811.
Davis, John N., assignor of one-half to I. N. Harris, Dayton, Ohio. Paper receptacle. No. 956,305; Apr. 26; Sp. p. 5688; Gaz. vol. 153; p. 990.
Davis, John T., Argenta, Ark. Vending apparatus. No. 963,748; July 12; Sp. p. 1601; Gaz. vol. 156; p. 269.
Davis, John T., assignor to Davis Briquet Company, Oakland, Cal. Briquet-press. No. 967,617; Aug. 16; Sp. p. 3796; Gaz. vol. 157; p. 652.
Davis, John W., Perdue Hill, Ala. Wire-fence clamp. No. 955,254; Apr. 19; Sp. p. 3371; Gaz. vol. 153; p. 600.
Davis, John W., San Antonio, Tex. Lineman's chair. No. 973,633; Oct. 25; Sp. p. 4666; Gaz. vol. 159; p. 812.
Davis, Joseph C. (See Luther, Charles J., assignor.)
Davis, Joseph L. (See Webster and Davis.)
Davis, Joseph L., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 969,608; Sept. 6; Sp. p. 982; Gaz. vol. 158; p. 156.
Davis, Joseph M. (See Mack, John G. D., assignor.)
Davis, Leonard D., and E. A. Bedient, Erie, Pa.; said Bedient assignor to said Davis. Rolling-mill. No. 951,179; Mar. 8; Sp. p. 1447; Gaz. vol. 152; p. 262.
Davis, Leslie N., Cliftondale, Mass. Grinding-machine. No. 970,691; Sept. 20; Sp. p. 3324; Gaz. vol. 158; p. 571.
Davis, Lester R., Riverside, Cal. Cooking apparatus. No. 972,603; Oct. 11; Sp. p. 2389; Gaz. vol. 159; p. 408.
Davis, Levi, Alton, Ill. Incandescent-lamp lock. No. 956,047; Apr. 26; Sp. p. 5103; Gaz. vol. 153; p. 900.
Davis, Madison T. (See Parks and Davis.)
Davis, Meda H. R. (See Randolph, Beede F., assignor.)
Davis, Minor M., New York, N. Y. Anti-induction device. No. 955,141; Apr. 19; Sp. p. 3120; Gaz. vol. 153; p. 560.
Davis, Minor M., New York, N. Y. Device for preventing induction in electrical conductors. No. 955,142; Apr. 19; Sp. p. 3120; Gaz. vol. 153; p. 560.
Davis, Nathan H., Philadelphia, Pa. Air-brake apparatus. No. 945,758; Jan. 11; Sp. p. 1667; Gaz. vol. 150; p. 280.
Davis, Newton S., Montrose, Colo. Culvert. No. 948,500; Feb. 8; Sp. p. 1523; Gaz. vol. 151; p. 269.
Davis, Oliver P., Ault, Colo. Blowpipe. No. 948,875; Feb. 8; Sp. p. 2309; Gaz. vol. 151; p. 392.
Davis, Oliver P. M., Bedford, Ind. Power-transmitting mechanism. No. 959,119; May 24; Sp. p. 5864; Gaz. vol. 154; p. 983.
Davis, Parley W. (See Davis and McCready.)
Davis, Pearley H., Cincinnati, Iowa. Automatic stock-counter. No. 950,279; Feb. 22; Sp. p. 5310; Gaz. vol. 151; p. 931.
Davis, Raymond A., Fargo, N. D. Rope-machine. No. 967,174; Aug. 16; Sp. p. 2895; Gaz. vol. 157; p. 501.
Davis, Roy. (See Bukey and Davis.)
Davis, Samuel, New York, N. Y., assignor to Cleopatra Vanity Box Company. Toilet or vanity box. No. 963,212; July 5; Sp. p. 481; Gaz. vol. 156; p. 66.
Davis, Samuel F., Clearmont, Mo. Saw-tooth fastening. No. 971,732; Oct. 4; Sp. p. 475; Gaz. vol. 159; p. 82.
Davis Sewing Machine Company, The. (See Lester, Harry B., assignor.)
Davis, Sherman L., Bloomington, Ind. Hydrocarbon-burner. No. 954,380; Apr. 5; Sp. p. 1444; Gaz. vol. 153; p. 240.
Davis, Sidney, Lankershim, Cal. Valve. No. 955,948; Apr. 26; Sp. p. 4890; Gaz. vol. 153; p. 865.
Davis, Spencer E., Minneapolis, assignor to Monitor Drill Company, St. Louis Park, Minn. Arm and lever. No. 959,475; May 31; Sp. p. 6604; Gaz. vol. 154; p. 1126.
Davis, Spurgeon J., P. W. Davis, and C. McCready, Eureka, Cal. Pulley-block. No. 973,177; Oct. 18; Sp. p. 3693; Gaz. vol. 159; p. 633.
Davis, Stephen A., assignor to Domestic Sewing Machine Company, Newark, N. J. Drop-head sewing-machine. No. 962,700; June 28; Sp. p. 5211; Gaz. vol. 155; p. 909.
Davis, Stephen G., Georgetown, Ill. Splice-bar. No. 970,430; Sept. 13; Sp. p. 2722; Gaz. vol. 158; p. 459.
Davis, Stephen H. (See Wright, Solomon A., assignor.)
Davis, Theodore, Birmingham, assignor to Standard Fuel Company, Montgomery, Ala. Binder for carbonaceous briquets. No. 966,803; Aug. 9; Sp. p. 2108; Gaz. vol. 157; p. 349.
Davis, Theodore, Birmingham, assignor to Standard Fuel Company, Montgomery, Ala. Carbonaceous briquet. No. 966,804; Aug. 9; Sp. p. 2109; Gaz. vol. 157; p. 350.
Davis, Thomas, Orange, N. J., assignor to Orange Machine and Manufacturing Company. Pneumatic pump. No. 969,847; Sept. 13; Sp. p. 1533; Gaz. vol. 158; p. 263.
Davis, Thomas, Winburne, and R. F. Monteith, Patton, Pa. Miner's lamp. No. 949,318; Feb. 15; Sp. p. 3218; Gaz. vol. 151; p. 567.
Davis, Thomas A., Blanket, Tex. Stalk-cutter. No. 952,727; Mar. 22; Sp. p. 4630; Gaz. vol. 152; p. 839.
Davis, Thomas A., Findlay, Ill. Ironing-board. No. 954,261; Apr. 5; Sp. p. 1197; Gaz. vol. 153; p. 200.
Davis, Thomas J., Farmington, assignor of one-fourth to H. Brockbage, St. Louis, Mo. Nut-lock. No. 965,445; July 26; Sp. p. 5285; Gaz. vol. 156; p. 904.
Davis, Ulysses C., Pittsfield, Mass. Dusting-machine. No. 969,609; Sept. 6; Sp. p. 983; Gaz. vol. 158; p. 156.
Davis, Verner F., Orange, N. J. Temperature-regulator. No. 969,848; Sept. 13; Sp. p. 1535; Gaz. vol. 158; p. 263.
Davis, Wallace B., Asheville, N. C. Window-lock. No. 953,322; Mar. 29; Sp. p. 5890; Gaz. vol. 152; p. 1063.
Davis, Walter B., Aurora, Ill. Combination-valve. No. 979,384; Dec. 20; Sp. p. 4239; Gaz. vol. 161; p. 730.
Davis, Walter M., New York, N. Y. Talking-machine and piano recording device. No. 958,730; May 24; Sp. p. 5015; Gaz. vol. 154; p. 849.
Davis, Walter M., New York, N. Y. Combined piano-player and talking-machine. No. 958,731; May 24; Sp. p. 5017; Gaz. vol. 154; p. 849.
Davis, Walter W., and J. H. Jeffrey, Rotan, Tex. Stalk-cutter. No. 951,678; Mar. 8; Sp. p. 2465; Gaz. vol. 152; p. 427.
Davis, William F. (See Donovan, James D., assignor.)
Davis, William H. (See Kamuf, Peter J., assignor.)
Davis, William J., assignor of three-fourths to W. R. Aldridge, O. B. McNutt, and F. L. Jones, Blue Springs, Miss. Combined fence-post and wire-stretcher. No. 961,108; June 14; Sp. p. 1756; Gaz. vol. 155; p. 319.
Davis, William L., Topeka, Kans. Variable-lead valve-gear for locomotives. No. 977,938; Dec. 6; Sp. p. 1119; Gaz. vol. 161; p. 179.
Davis, William P., Memphis, Tenn. Rail-joint. No. 958,602; May 17; Sp. p. 4762; Gaz. vol. 154; p. 782.
Davison, Clinton E., Little Rock, Iowa. Vending-machine. No. 969,040; Aug. 30; Sp. p. 6804; Gaz. vol. 157; p. 1185.
Davison, Frank N., *et al.* (See Kaiser, Charles A., assignor.)
Davison, Frederick, St. Louis, Mo. Fly-proof and other like screen for windows. No. 978,437; Dec. 13; Sp. p. 2207; Gaz. vol. 161; p. 382.
Davison, Gregory C., Quincy, Mass. Depth-regulating mechanism for moving vessels. No. 946,659; Jan. 18; Sp. p. 3685; Gaz. vol. 150; p. 616.
Davison, Gregory C., Quincy, Mass. Automobile torpedo. No. 977,438; Dec. 6; Sp. p. 21; Gaz. vol. 161; p. 7.
Davison, Gregory C., Hingham, Mass. Speed-regulator. No. 951,725; Mar. 8; Sp. p. 2536; Gaz. vol. 152; p. 441.
Davison, Gregory C., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Torpedo-director. No. 970,431; Sept. 13; Sp. p. 2723; Gaz. vol. 158; p. 460.
Davison, Henry J., Moorfield, Bexhill, England. Window No. 948,956; Feb. 8; Sp. p. 2470; Gaz. vol. 151; p. 419.
Davison, Henry J., Bexhill, England, assignor to J. A. Davis, San Francisco, Cal. Window. (Reissue.) No. 13,160; Oct. 25; Sp. p. 5631; Gaz. vol. 159; p. 977.
Davison, Tom C., assignor of sixty-two and one-half one-hundredths to R. A. Smith, Omaha, Nebr. Railway-ticket. No. 951,632; Mar. 8; Sp. p. 2372; Gaz. vol. 152; p. 411.
Davrou, Emile, Pawtucket, R. I. Pasteurizing apparatus. No. 979,830; Dec. 27; Sp. p. 5238; Gaz. vol. 161; p. 907.
Davy, Orrin J., Washington, D. C., assignor, by mesne assignments, to Industrial Motor Company. Aerial electric transportation. No. 961,430; June 14; Sp. p. 2440; Gaz. vol. 155; p. 430.
Daw, James G., Wellfield, Llanelly, England. Resilient wheel. No. 967,887; Aug. 23; Sp. p. 4335; Gaz. vol. 157; p. 765.
Dawes, Charles, assignor of one-half to J. P. Howe, Liberty, Ind. Grass and ditch-line cutter. No. 959,845; May 31; Sp. p. 7390; Gaz. vol. 154; p. 1251.
Dawes, Charles A., St. Louis, Mo. Coin-controlling mechanism for vending-machines. No. 967,111; Aug. 9; Sp. p. 2755; Gaz. vol. 157; p. 452.
Dawes, Charles A., St. Louis, Mo. Newspaper-vending machine. No. 967,112; Aug. 9; Sp. p. 2759; Gaz. vol. 157; p. 453.
Dawes, Edmond, *et al.* (See Dawes, Robert, assignor.)
Dawes, Robert, assignor, by mesne assignments, to himself, E. Dawes, Philadelphia, Pa., and E. H. Haskell, Newton, Mass. Spinning and twisting machine. No. 959,316; May 24; Sp. p. 6264; Gaz. vol. 154; p. 1048.
Dawley, Caleb W., *et al.* (See Mayhew, John, assignor.)
Dawson, Artemas L., assignor of one-half to J. M. McClintock, Devall Bluff, Ark. Feed mechanism for sewing-machines. No. 968,329; Aug. 23; Sp. p. 5322; Gaz. vol. 157; p. 917.
Dawson, Artemas L., assignor of one-fourth to C. Coyle and one-fourth to J. M. McClintock, Devall Bluff, Ark. Portable fountain-syringe. No. 962,999; June 28; Sp. p. 5781; Gaz. vol. 155; p. 1012.

Alphabetical list of patentees—Continued.

Dawson, Arthur T., and G. T. Buckham, Westminster, assignors to Vickers Sons & Maxim, Limited, London, England. Firing mechanism of breech-loading guns. No. 973,482; Oct. 25; Sp. p. 4337; Gaz. vol. 159; p. 760.
Dawson, Bailey B., Lodge, Va. Tire. No. 974,861; Nov. 8; Sp. p. 1770; Gaz. vol. 160; p. 295.
Dawson, Clarence G., *et al.* (See Barrick, Livy L., assignor.)
Dawson, Edward P., Butte, Mont. Deriving power from the explosion of gases. No. 966,805; Aug. 9; Sp. p. 2110; Gaz. vol. 157; p. 350.
Dawson, George, Crescent, La. Tempering compound. No. 946,838; Jan. 18; Sp. p. 4104; Gaz. vol. 150; p. 679.
Dawson, George, Crescent, La. Attaching steel to steel or steel to iron. No. 969,610; Sept. 6; Sp. p. 985; Gaz. vol. 158; p. 157.
Dawson, Isaac L., Kansas City, Mo. Corn-shocker. No. 949,978; Feb. 22; Sp. p. 4628; Gaz. vol. 151; p. 827.
Dawson, Isaac L., Kansas City, Mo. Corn-harvester. No. 951,366; Mar. 8; Sp. p. 1836; Gaz. vol. 152; p. 322.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Co. Loose-leaf binder. No. 950,613; Mar. 1; Sp. p. 316; Gaz. vol. 152; p. 51.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Co. Loose-leaf binder. No. 950,614; Mar. 1; Sp. p. 316; Gaz. vol. 152; p. 52.
Dawson, James C., Webster Groves, assignor to Sieber & Trussell Manufacturing Co., St. Louis, Mo. Loose-sheet holder. No. 955,325; Apr. 19; Sp. p. 3513; Gaz. vol. 153; p. 623.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Company. Loose-leaf binder. No. 958,099; May 11; Sp. p. 3610; Gaz. vol. 154; p. 608.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Company. Loose-leaf binder. No. 965,373; July 26; Sp. p. 5124; Gaz. vol. 156; p. 879.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Co. File-binder. No. 965,374; July 26; Sp. p. 5125; Gaz. vol. 156; p. 879.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Co. Loose-leaf binder. No. 966,806; Aug. 9; Sp. p. 2114; Gaz. vol. 157; p. 350.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Company. Loose-leaf book. No. 966,807; Aug. 9; Sp. p. 2114; Gaz. vol. 157; p. 350.
Dawson, James C., Webster Groves, Mo., assignor to Sieber and Trussell Manufacturing Company. File-binder. No. 966,808; Aug. 9; Sp. p. 2116; Gaz. vol. 157; p. 350.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Company. Loose-leaf binder. No. 967,336; Aug. 16; Sp. p. 3216; Gaz. vol. 157; p. 557.
Dawson, James C., St. Louis, Mo., assignor to Sieber & Trussell Mnfg. Co. Loose-leaf book. No. 978,707; Dec. 13; Sp. p. 2790; Gaz. vol. 161; p. 475.
Dawson, John H., *et al.* (See Ashford, Thomas B., assignor.)
Dawson, Joseph W., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle-brushing machine. No. 973,178; Oct. 18; Sp. p. 3695; Gaz. vol. 159; p. 633.
Dawson, Oliver B., El Paso, Tex. Producing metallic zinc. No. 976,557; Nov. 22; Sp. p. 5481; Gaz. vol. 160; p. 926.
Dawson, Robert C., Wampum, assignor of one-half to H. Bartow, Seanor, Pa. Carbureting apparatus. No. 956,048; Apr. 26; Sp. p. 5105; Gaz. vol. 153; p. 901.
Dawson, Robert C., Wampum, assignor of one-half to H. Bartow, Seanor, Pa. System for ventilating and rendering first aid to entombed miners. No. 956,306; Apr. 26; Sp. p. 5691; Gaz. vol. 153; p. 991.
Dawson, Thomas, Livingston Manor, N. Y. Furnace-grate. No. 956,517; May 3; Sp. p. 19; Gaz. vol. 154; p. 6.
Dawson, William H. (See Pegg, James A., assignor.)
Daxe, Mayer, New York, N. Y. Paint and varnish remover. No. 948,814; Feb. 8; Sp. p. 2200; Gaz. vol. 151; p. 373.
Day, Albert V. T., assignor to C. Hubert, New York, N. Y. Hydraulic power-transmission system. No. 956,570; May 3; Sp. p. 134; Gaz. vol. 154; p. 24.
Day, Albertine P., Chicago, Ill. Cording attachment for sewing-machines. No. 945,759; Jan. 11; Sp. p. 1672; Gaz. vol. 150; p. 280.
Day, Charles E., Mohawk, assignor to J. J. O'Hanlon and R. Rousseau, Ilion, N. Y. Boring-tool holder. No. 971,120; Sept. 27; Sp. p. 4211; Gaz. vol. 158; p. 744.
Day, Charles H., Crandon, Wis. Railway-rail. No. 949,793; Feb. 22; Sp. p. 4210; Gaz. vol. 151; p. 760.
Day, David T., Washington, D. C. Treating asphaltum to make varnish. No. 967,337; Aug. 16; Sp. p. 3217; Gaz. vol. 157; p. 557.
Day, Edgar K., and H. S. Riddle, Wheeling, W. Va., assignors to The Wheeling Corrugating Company. Roofing-plate. No. 955,855; Apr. 26; Sp. p. 4689; Gaz. vol. 153; p. 833.
Day, Francis H., Minneapolis, Minn. Floor-sweep. No. 969,157; Sept. 6; Sp. p. 12; Gaz. vol. 158; p. 5.
Day, Frederick, West Zorra township, Oxford county, Ontario, Canada. Potato-digging attachment for plows. No. 958,603; May 17; Sp. p. 4764; Gaz. vol. 154; p. 782.
Day, George F., Winthrop, assignor to A. D. Claflin, Newton, Mass. Ticket-vending apparatus. No. 954,787; Apr. 12; Sp. p. 2364; Gaz. vol. 153; p. 409.
Day, George H., assignor to American Optical Company, Southbridge, Mass Reel for eyeglasses. No. 974,477; Nov. 1; Sp. p. 924; Gaz. vol. 160; p. 137.
Day, Harry, Toledo, Ohio. Mechanically-propelled sled. No. 969,348; Sept. 6; Sp. p. 420; Gaz. vol. 158; p. 67.
Day, Harry N., assignor of one-half to R. J. Wright, Roanoke, Va. Combined jack truck and stand. No. 948,299; Feb. 1; Sp. p. 1078; Gaz. vol. 151; p. 175.
Day, Horace L., New York, N. Y. Mailing package and wrapper. No. 965,161; July 26; Sp. p. 4670; Gaz. vol. 156; p. 809.
Day, Isaac O., Ottumwa, Iowa. Scissors-sharpener. No. 956,518; May 3; Sp. p. 21; Gaz. vol. 154; p. 7.
Day, John H., deceased, (M. E. Lyons and F. M. Dudley, executors,) and P. S. Ward; said Ward and said executors assignors to The J. H. Day Company, Cincinnati, Ohio. Dough-brake. No. 954,937; Apr. 12; Sp. p. 2724; Gaz. vol. 153; p. 461.
Day, Joseph L., Nashville, Okla. Vehicle-wheel. No. 960,513; June 7; Sp. p. 550; Gaz. vol. 155; p. 91.
Day, Louis A., assignor to J. B. Hall, Philadelphia, Pa. Fastening device for doors. No. 959,476; May 31; Sp. p. 6606; Gaz. vol. 154; p. 1127.
Day, Paul, assignor to Draper Company, Hopedale, Mass. Pick-matcher for automatic weft-replenishing looms. No. 964,497; July 19; Sp. p. 3176; Gaz. vol. 156; p. 551.
Day, Preston C., Augusta, Okla. Horse-detacher. No. 980,074; Dec. 27; Sp. p. 5741; Gaz. vol. 161; p. 987.
Day, W. A., *et al.* (See Reed, Rufus C., assignor.)
Day Ward Company, The. (See Carter, Edwin E., assignor.)
Day Ward Company, The. (See Ward, Almon G., assignor.)
Day, William C., Cleveland, Ohio. Pivoted latch. No. 978,857; Dec. 20; Sp. p. 3081; Gaz. vol. 161; p. 548.
Day, William P., Altoona, Pa. Rail tie and fastening. No. 949,926; Feb. 22; Sp. p. 4523; Gaz. vol. 151; p. 807.
Day, William P., Altoona, Pa. Railway-tie and rail-fastening. No. 969,611; Sept. 6; Sp. p. 986; Gaz. vol. 158; p. 157.
Dayes, Frederick E., Brooklyn, N. Y. Internal-combustion engine. No. 962,131; June 21; Sp. p. 3974; Gaz. vol. 155; p. 690.
Dayfield, Charles. (See Odien and Dayfield.)
Dayton Clothing Mfg. Co. (See Richards, James E., assignor.)
Dayton Hydraulic Machinery Company, The. (See Hildebrandt, Charles T., assignor.)
Dayton, James M., assignor to Excelsior Needle Company, Torrington, Conn. Air-controlling mechanism for carbureters. No. 976,558; Nov. 22; Sp. p. 5482; Gaz. vol. 160; p. 926.
Dayton, Reuben C., Rhinelander, Wis. Gage-table. No. 972,101; Oct. 4; Sp. p. 1266; Gaz. vol. 159; p. 215.
Dayton Telephone Lockout Mfg. Co., The. (See Kneisly, Daniel W., assignor.)
Dazey, Harry L., Dallas, Tex. Pneumatic tire. No. 956,948; May 3; Sp. p. 965; Gaz. vol. 154; p. 154.
De Armond, Albert E., Chicago, Ill. Silo. No. 979,444; Dec. 27; Sp. p. 4376; Gaz. vol. 161; p. 774.
De Bay, George C., Tarentum, assignor of one-half to J. Heidenkamp, Springdale, Pa. Making polished glass. No. 972,165; Oct. 11; Sp. p. 1422; Gaz. vol. 159; p. 255.
De Bay, George C., Tarentum, assignor of one-half to J. Heidenkamp, Springdale, Pa. Apparatus for making polished glass. No. 972,166; Oct. 11; Sp. p. 1425; Gaz. vol. 159; p. 255.
De Bay, George C., Tarentum, assignor of one-half to J. Heidenkamp, Springdale, Pa. Glass-annealing leer. No. 972,167; Oct. 11; Sp. p. 1429; Gaz. vol. 159; p. 256.
De Bay, George C., Tarentum, assignor of one-half to J. Heidenkamp, Springdale, Pa. Making polished glass. No. 972,168; Oct. 11; Sp. p. 1431; Gaz. vol. 159; p. 256.
De Bay, Lucien, Auvelais, Belgium. Apparatus for transporting and manipulating sheets of plate-glass. No. 977,279; Nov. 29; Sp. p. 7053; Gaz. vol. 160; p. 1200.
De Bersaques, Romain, Washington, D. C., assignor to De Bersaques Safety Aeroplane Co. Aeroplane. No. 967,711; Aug. 16; Sp. p. 3982; Gaz. vol. 157; p. 682.
De Bersaques Safety Aeroplane Co. (See De Bersaques, Romain, assignor.)
De Bisschop, Joseph E., New Britain, Conn. Grade-level. No. 970,472; Sept. 20; Sp. p. 2835; Gaz. vol. 158; p. 495.
De Borde, F. K. (See Mobius, Robert M., assignor.)
De Bosco, Charles P., New York, assignor of twenty-five one-hundredths to N. Labita and twenty-five one-hundredths to J. Campisi, Brooklyn, N. Y. Cradle. No. 946,206; Jan. 11; Sp. p. 2628; Gaz. vol. 150; p. 437.
De Bruycker, August M. H., New York, N. Y. Padlock. No. 957,033; May 3; Sp. p. 1155; Gaz. vol. 154; p. 183.
De Camp, Lyman B., Berkeley, Cal. Air-compressing apparatus. No. 971,175; Sept. 27; Sp. p. 4345; Gaz. vol. 158; p. 762.

Alphabetical list of patentees—Continued.

De Camp, William S., Chillicothe, Ohio. Means for releasing air-brakes and economizing air. No. 950,165; Feb. 22; Sp. p. 5070; Gaz. vol. 151; p. 890.

De Canio, Victor A., Union Hill, N. J. Mortuary refrigerator. No. 972,755; Oct. 11; Sp. p. 2703; Gaz. vol. 159; p. 460.

De Carteret, William B., Napa, Cal. Device for controlling the supply of water to windmill-tanks. No. 966,664; Aug. 9; Sp. p. 1770; Gaz. vol. 157; p. 302.

De Celle, Jerry D., Fort Collins, Colo. Beet-harvester. No. 978,710; Dec. 13; Sp. p. 2804; Gaz. vol. 161; p. 476.

De-Felice, Carlo. (See Giusto and De-Felice.)

De Feo, Frank, Waterbury, Conn. Measuring-harness. No. 947,542; Jan. 25; Sp. p. 5673; Gaz. vol. 150; p. 942.

De Force, Mary A., administratrix. (See De Force, Samuel.)

De Force, Samuel, deceased; M. A. De Force, Corry, Pa., administratrix, assignor to W. A. De Force, Vermejo Park, N. Mex. Ditching-machine. No. 963,021; June 28; Sp. p. 5821; Gaz. vol. 155; p. 1019.

De Force, William A. (See De Force, Samuel.)

De Forest, Lee, New York, N. Y. High-frequency electrical-oscillation generator. No. 979,277; Dec. 20; Sp. p. 4050; Gaz. vol. 161; p. 697.

De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone Co. Aerophone. No. 973,644; Oct. 25; Sp. p. 4694; Gaz. vol. 159; p. 815.

De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone Co. Oscillation-responsive device. No. 979,275; Dec. 20; Sp. p. 4044; Gaz. vol. 161; p. 696.

De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone Co. Space telegraphy. No. 979,276; Dec. 20; Sp. p. 4048; Gaz. vol. 161; p. 696.

De Forest, Lee, assignor to The Radio Telephone Company, New York, N. Y. Transmitting apparatus. No. 966,539; Aug. 9; Sp. p. 1519; Gaz. vol. 157; p. 260.

De Forest Radio Telephone Co. (See De Forest, Lee, assignor.)

De Forge, Joseph H. C., Lynn, Mass. Garment. No. 957,875; May 17; Sp. p. 2919; Gaz. vol. 154; p. 528.

De Forrest, Charles E., assignor of one-third to E. E. Jones and one-third to R. L. Armstrong, Lima, Ohio. Heater. No. 969,749; Sept. 6; Sp. p. 1281; Gaz. vol. 158; p. 205.

De Good, Joseph L., Detroit, Mich., assignor to H. N. White, Cleveland, Ohio. Trombone. No. 971,833; Oct. 4; Sp. p. 672; Gaz. vol. 159; p. 118.

De Guire, Frank C., Hereford, Tex. Windmill. No. 953,195; Mar. 29; Sp. p. 5633; Gaz. vol. 152; p. 1024.

De Haas, Abey H., Goodnight, Okla. Attachment for anvils. No. 961,109; June 14; Sp. p. 1757; Gaz. vol. 155; p. 319.

De Hoog, Otto G., Los Angeles, Cal. Electric automatically-operated gate. No. 953,259; Mar. 29; Sp. p. 5768; Gaz. vol. 152; p. 1044.

De Jong, John. (See Ford, John C., assignor.)

De Jong, John R. H. (See Duysens, De Jong, and Kneppers.)

De Jongh, Davis S. (See Gillette, Mott G., assignor.)

De Journo, Ernest, Allentown, Pa. Apparatus for impregnating fabrics. No. 969,041; Aug. 30; Sp. p. 6805; Gaz. vol. 157; p. 1186.

De Kinder, Joseph J., Philadelphia, Pa. Means for making artificial plate-ice. No. 947,615; Jan. 25; Sp. p. 5829; Gaz. vol. 150; p. 968.

De Kleist, Eugene, North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Pneumatic musical instrument. No. 952,262; Mar. 15; Sp. p. 3627; Gaz. vol. 152; p. 652.

De la Hunty, Thomas, assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Molding apparatus. No. 976,464; Nov. 22; Sp. p. 5269; Gaz. vol. 160; p. 895.

De la Hunty, Thomas, assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Green-sand core. No. 976,465; Nov. 22; Sp. p. 5270; Gaz. vol. 160; p. 895.

De la Peña, Gabriel, San Antonio de los Baños, Cuba. Leveling-rod. No. 952,275; Mar. 15; Sp. p. 3663; Gaz. vol. 152; p. 656.

De Laney, Charles W., Hammond, Ind. Label and ticket cabinet. No. 972,683; Oct. 11; Sp. p. 2548; Gaz. vol. 159; p. 434.

De Laney, E. M., *et al.* (See Van Sant, William S., assignor.)

De Lano, Charles B., South Boston, Mass. Tobacco-moistener. No. 977,374; Nov. 29; Sp. p. 7266; Gaz. vol. 160; p. 1233.

De Lany, Edwin H., Cleveland, Tenn., assignor to De Lany Separator Company, New York, N. Y. Distilling system. No. 971,668; Oct. 4; Sp. p. 332; Gaz. vol. 159; p. 59.

De Lany Separator Company. (See De Lany, Edwin H., assignor.)

De Lap, Charles D., Roosevelt, N. Y. Feed-bag. No. 965,570; July 26; Sp. p. 5578; Gaz. vol. 156; p. 949.

De Laval Separator Company, The. (See Marshall, Thomas B., assignor.)

De Laval Steam Turbine Company. (See Guy, Albert E., assignor.)

De Laval Steam Turbine Company, The. (See Salzer, Rudolph, assignor.)

De Laval Steam Turbine Company. (See Waller, Carl R., assignor.)

De Lay, Frederic A., Ann Arbor, Mich. Measuring mechanism. No. 977,516; Dec. 6; Sp. p. 220; Gaz. vol. 161; p. 33.

De Leeuw, Adolph L., Hamilton, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Spindle-locking mechanism for machine-tools. No. 964,764; July 19; Sp. p. 3880; Gaz. vol. 156; p. 644.

De Leeuw, Adolph L., Hamilton, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling-machine. No. 973,766; Oct. 25; Sp. p. 4937; Gaz. vol. 159; p. 859.

De Leeuw, Adolph L., Hamilton, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling-machine. No. 974,036; Oct. 25; Sp. p. 5502; Gaz. vol. 159; p. 954.

De Leeuw, Adolph L., Hamilton, and S. Einstein, assignors to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Feed-controlling mechanism. No. 961,405; June 14; Sp. p. 2381; Gaz. vol. 155; p. 421.

De Lisle, Thomas C., and W. T. Phillips, Los Angeles, Cal. Display device for carpets and the like. No. 976,442; Nov. 22; Sp. p. 5230; Gaz. vol. 160; p. 887.

De Loach, Alonzo A., Bridgeport, Ala. Sawmill feed mechanism. No. 955,057; Apr. 12; Sp. p. 2953; Gaz. vol. 153; p. 500.

De Loach, Alonzo A., Bridgeport, Ala. Friction transmission-gearing. No. 970,190; Sept. 13; Sp. p. 2231; Gaz. vol. 158; p. 380.

De Long, Frank E., assignor of one-half to T. D. Richardson, Philadelphia, Pa. Garment-hook. No. 947,770; Jan. 25; Sp. p. 6106; Gaz. vol. 150; p. 1018.

De Long, Frank E., assignor of one-half to T. D. Richardson, Philadelphia, Pa. Garment-hook. No. 947,771; Jan. 25; Sp. p. 6107; Gaz. vol. 150; p. 1018.

De Long, Frank E., assignor of one-half to T. D. Richardson, Philadelphia, Pa. Garment-hook. No. 947,772; Jan. 25; Sp. p. 6108; Gaz. vol. 150; p. 1018.

De Long, Frederick T., assignor to Chicago Railway Equipment Company, Chicago, Ill. Guard for brake-beams. No. 950,632; Mar. 1; Sp. p. 361; Gaz. vol. 152; p. 58.

De Long, Nelson, Chicago, Ill. Gas-engine. No. 967,735; Aug. 16; Sp. p. 4036; Gaz. vol. 157; p. 691.

De Long, Oscar A., Montclair, N. J. Pocket-book or purse. No. 950,898; Mar. 1; Sp. p. 920; Gaz. vol. 152; p. 147.

De Looch, Alonzo A., Bridgeport, Ala. Track-scraper. No. 950,373; Feb. 22; Sp. p. 5478; Gaz. vol. 151; p. 960.

De Lorenzi, Emilio, Genoa, Italy. Apparatus for measuring loads. No. 954,262; Apr. 5; Sp. p. 1198; Gaz. vol. 153; p. 201.

De Lorenzo, John, Linhart, Pa. Electric time-switch. No. 964,289; July 12; Sp. p. 2743; Gaz. vol. 156; p. 453.

De Loss, Harry H. (See Litchfield, Isaac W., assignor.)

De Lukacsevics, Charles. (See Ackerman, Albert J., assignor.)

De Lukacsevics, Charles. (See Christopher and De Lukacsevics.)

De Lukacsevics, Charles. (See Goldstein, Morris; assignor.)

De Lukacsevics, Charles, assignor to G. W. Morgan, New York, N. Y. Rotary motor. No. 974,803; Nov. 8; Sp. p. 1639; Gaz. vol. 160; p. 275.

De Lukacsevics, Charles, assignor to W. L. Lewis, G. C. Moxon, and G. W. Morgan, Jr., New York N. Y. Rotary envelop-machine. No. 945,181; Jan. 4; Sp. p. 356; Gaz. vol. 150; p. 60.

De Lukacsevics, Charles, assignor to W. L. Lewis, G. C. Moxon, and G. W. Morgan, Jr., New York, N. Y. Rotary envelop-machine. No. 979,775; Dec. 27; Sp. p. 5094; Gaz. vol. 161; p. 887.

De Mars, Arthur J. (See De Mars, Joseph and A. J.)

De Mars, Joseph and A. J., San Francisco, Cal. Sash lock and antirattler. No. 954,719; Apr. 12; Sp. p. 2205; Gaz. vol. 153; p. 384.

De Montlord, Georges R., assignor to International Flax Fiber Company, New York, N. Y. Treating fibrous plants. No. 945,471; Jan. 4; Sp. p. 993; Gaz. vol. 150; p. 156.

De Montlord, Georges R., assignor to The International Flax Fibre Company, New York, N. Y. Flax-treating apparatus. No. 945,726; Jan. 4; Sp. p. 1557; Gaz. vol. 150; p. 240.

De Moss, George G., assignor of one-half to H. S. De Moss, De Moss Springs, Oreg. Tourist's bed. No. 960,281; June 7; Sp. p. 82; Gaz. vol. 155; p. 18.

De Moss, Henry S. (See De Moss, George G., assignor.)

De Moulin, Erastus. (See Riggs, George P., assignor.)

De Moulin, Erastus, Greenville, Ill. Trick-telephone. No. 945,708; Jan. 4; Sp. p. 1497; Gaz. vol. 150; p. 234.

De Moulin, Erastus, Greenville, Ill. Trick weight-lifting machine. No. 953,411; Mar. 29; Sp. p. 6102; Gaz. vol. 152; p. 1096.

De Moulin, Erastus, Greenville, Ill. Trick water-gun. No. 956,760; May 3; Sp. p. 560; Gaz. vol. 154; p. 89.

De Moulin, Erastus, Greenville, Ill. Trick water-gun. No. 958,711; May 17; Sp. p. 4966; Gaz. vol. 154; p. 817.

De Moulin, Erastus, Greenville, Ill. Initiation apparatus. No. 961,847; June 21; Sp. p. 3335; Gaz. vol. 155; p. 593.

Alphabetical list of patentees—Continued.

De Moulin, Erastus, Greenville, Ill. Trick-chair. No. 976,786; Nov. 22; Sp. p. 5950; Gaz. vol. 160; p. 1004.
De Moulin, Erastus, Greenville, Ill. Initiation device. No. 976,851; Nov. 29; Sp. p. 6102; Gaz. vol. 160; p. 1050.
De Nure, Delton, Gloversville, N. Y. Penholder. No. 960,282; June 7; Sp. p. 83; Gaz. vol. 155; p. 18.
De Pasquale, Lawrence, San Francisco, Cal. Gas-burner. No. 958,102; May 17; Sp. p. 3613; Gaz. vol. 154; p. 609.
De Phillippi, John P., *et al.* (See Consentino, Thomas, assignor.)
De Pont, Antoine B., Cleveland, Ohio. Car adapted for subway use. No. 945,247; Jan. 4; Sp. p. 503; Gaz. vol. 150; p. 82.
De Pree, Cornelius, A. Leenhouts, and J. J. Mersen, Holland, Mich. Fumigating apparatus. No. 973,634; Oct. 25; Sp. p. 4669; Gaz. vol. 159; p. 812.
De Prins, Tobie, Anvars, and D. Riga, Hoboken, Belgium, assignors to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 962,079; June 21; Sp. p. 3837; Gaz. vol. 155; p. 672.
De Puy, Edward S., Melrose, Cal. Composite letter and attachment. No. 947,377; Jan. 25; Sp. p. 5286; Gaz. vol. 150; p. 888.
De Ramus, Jacob D. (See Ekwurzel and De Ramus.)
De Remer, William L., Chicago, Ill. Anticreeper device for rails. No. 960,283; June 7; Sp. p. 84; Gaz. vol. 155; p. 18.
De Remer, William L., Chicago, Ill. Tie-plate. No. 962,750; June 28; Sp. p. 5311; Gaz. vol. 155; p. 927.
De Remer, William L., Chicago, Ill. Tie-plate. No. 962,751; June 28; Sp. p. 5312; Gaz. vol. 155; p. 928.
De Remer, William L., Chicago, Ill. Tie-plate for railways. No. 965,571; July 26; Sp. p. 5580; Gaz. vol. 156; p. 949.
De Rochemont, Perkins H., Chattanooga, Tenn., assignor of one-half to C. Toppino, Jr., New Orleans, La. Laplink. No. 959,317; May 24; Sp. p. 6266; Gaz. vol. 154; p. 1049.
De Rocher, Fose, Chicago, Ill. Game-board. No. 979,445; Dec. 27; Sp. p. 4377; Gaz. vol. 161; p. 775.
De Rosa, Michele, Schenectady, N. Y. Horseshoe. No. 952,982; Mar. 22; Sp. p. 5148; Gaz. vol. 152; p. 924.
De Rose, Albert, Gilroy, Cal. Igniter. No. 968,330; Aug. 23; Sp. p. 5327; Gaz. vol. 157; p. 917.
De Salis, Joseph H., East Syracuse, N. Y. Device for controlling cylinder-cocks of locomotives. No. 958,858; May 24; Sp. p. 5326; Gaz. vol. 154; p. 896.
De Tienne, H. G., *et al.* (See Callaway, David A., assignor.)
De Turk, Joshua G. (See Butler, James M., assignor.)
De Vallant, Fred C., Earlville, N. Y. Pneumatic dust-collector. No. 954,938; Apr. 12; Sp. p. 2726; Gaz. vol. 153; p. 461.
De Vallant, Fred C., Earlville, N. Y. Hand-propelled dust-collector. No. 965,694; July 26; Sp. p. 5843; Gaz. vol. 156; p. 992.
De Vasher, Marion A. (See Padden, Robert W., assignor.)
De Vaul, Chester A., Laings, Ohio. Wrench. No. 972,604; Oct. 11; Sp. p. 2391; Gaz. vol. 159; p. 408.
De Vilbiss, Allen, Toledo, Ohio. Closure for fluid-receptacles. No. 949,170; Feb. 15; Sp. p. 2918; Gaz. vol. 151; p. 517.
De Vilbiss, Allen, Jr., assignor to Toledo Computing Scale Company, Toledo, Ohio. Scale. No. 948,991; Feb. 15; Sp. p. 2551; Gaz. vol. 151; p. 459.
De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)
De Vilbiss Plier Company. (See Hansen, Niels M., assignor.)
De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Scalp-sprayer. No. 946,538; Jan. 18; Sp. p. 3444; Gaz. vol. 150; p. 579.
De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Dropper. No. 959,847; May 31; Sp. p. 7392; Gaz. vol. 154; p. 1252.
De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Air-brush. No. 977,281; Nov. 29; Sp. p. 7057; Gaz. vol. 160; p. 1200.
De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Modeling-pencil. No. 977,282; Nov. 29; Sp. p. 7060; Gaz. vol. 160; p. 1201.
De Vinney, Theodore, Albany, N. Y. Carline for box-cars. No. 945,084; Jan. 4; Sp. p. 164; Gaz. vol. 150; p. 27.
De Vito, Louis, Cleveland, Ohio. Brake for railway-cars. No. 975,908; Nov. 15; Sp. p. 4026; Gaz. vol. 160; p. 679.
De Vivo, Aniello, Bayonne, N. J. Sharpening device for razors. No. 977,172; Nov. 29; Sp. p. 6850; Gaz. vol. 160; p. 1163.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 946,662; Jan. 18; Sp. p. 3691; Gaz. vol. 150; p. 617.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Ruffling and stitching machine. No. 949,725; Feb. 15; Sp. p. 4038; Gaz. vol. 151; p. 702.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Hemmer. No. 955,950; Apr. 26; Sp. p. 4893; Gaz. vol. 153; p. 866.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Ruffling and stitching machine. No. 955,951; Apr. 26; Sp. p. 4896; Gaz. vol. 153; p. 867.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 966,431; Aug. 9; Sp. p. 1222; Gaz. vol. 157; p. 221.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine folder. No. 970,474; Sept. 20; Sp. p. 2838; Gaz. vol. 158; p. 496.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Tool-kit. No. 972,830; Oct. 18; Sp. p. 2862; Gaz. vol. 159; p. 511.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Chain-stitch sewing-machine. No. 978,140; Dec. 13; Sp. p. 1573; Gaz. vol. 161; p. 279.
De Voss, Edwin A. (See Gregg and De Voss.)
De Vries, William, Marion, N. D. Churn attachment. No. 974,244; Nov. 1; Sp. p. 365; Gaz. vol. 160; p. 52.
De Vrieze, Emil, Rochester, N. Y. Umbrella and hat holder. No. 956,308; Apr. 26; Sp. p. 5694; Gaz. vol. 153; p. 991.
De Wein, George F., assignor to Allis-Chalmers Company, Milwaukee, Wis. Gyratory crusher. No. 961,084; June 7; Sp. p. 1709; Gaz. vol. 155; p. 284.
De Wind, Norman, Harvey, assignor to Austin Manufacturing Company, Chicago, Ill. Trip-lock for use in starting explosive-engines. No. 970,475; Sept. 20; Sp. p. 2842; Gaz. vol. 158; p. 496.
De Witt, Charles C., Henry, and C. B. Stiles, Soda Springs, Idaho. Tug-buckle. No. 951,727; Mar. 8; Sp. p. 2540; Gaz. vol. 152; p. 442.
De Witt, Ira S., Newdale, Manitoba, Canada. Harrow attachment for sulky-plows. No. 962,701; June 28; Sp. p. 5213; Gaz. vol. 155; p. 910.
De Wolf, Roger D., Pittsburg, Pa. Electric sign-flasher. No. 972,516; Oct. 11; Sp. p. 2186; Gaz. vol. 159; p. 377.
De Young, Blanche. (See Lowe and De Young.)
De Young, James, Manhattan, Kans. Chicken-crating apparatus. No. 959,121; May 24; Sp. p. 5869; Gaz. vol. 154; p. 983.
De Zeng, Henry L., Philadelphia, Pa. Headlight or illuminator. No. 963,036; July 5; Sp. p. 17; Gaz. vol. 156; p. 5.
De Zeng, Henry L., assignor to De Zeng-Standard Company, Philadelphia, Pa. Schematic eye. No. 971,026; Sept. 27; Sp. p. 4013; Gaz. vol. 158; p. 712.
De Zeng-Standard Company. (See De Zeng, Henry L., assignor.)
Deakin, Thomas. (See Smith and Deakin.)
Dean, Anthony C., Overhill, W. Va. Safety-stop for saw-mill-engines. No. 975,216; Nov. 8; Sp. p. 2588; Gaz. vol. 160; p. 417.
Dean, Calvin, assignor to Cory & Reynolds Company, Providence, R. I. Setting. No. 974,862; Nov. 8; Sp. p. 1771; Gaz. vol. 160; p. 295.
Dean, Charles B. (See Dearborn, Richard J., assignor.)
Dean, Charles H., *et al.* (See Hartman, Joseph, assignor.)
Dean, Daniel C. (See Cornelius and Dean.)
Dean, Edmund W., assignor to Kidder Press Company, Dover, N. H. Sheet-delivery mechanism. No. 965,375; July 26; Sp. p. 5126; Gaz. vol. 156; p. 880.
Dean, Edmund W., assignor to Kidder Press Company, Dover, N. H. Printing mechanism. No. 965,502; July 26; Sp. p. 5399; Gaz. vol. 156; p. 924.
Dean Electric Company, The. (See Dean, William W., assignor.)
Dean Electric Company, The. (See Harkness, William E., assignor.) (Reissue.)
Dean Electric Company, The. (See Libby, Albion D. T., assignor.)
Dean Electric Company. (See Manson, Ray H., assignor.)
Dean Electric Company, The. (See St. Onge, Walter J., assignor.)
Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 971,666; Oct. 4; Sp. p. 320; Gaz. vol. 159; p. 58.
Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 972,513; Oct. 11; Sp. p. 2169; Gaz. vol. 159; p. 376.
Dean, John, assignor to John Dean Manufacturing Company, Racine, Wis. Pen and pencil holder. No. 960,215; May 31; Sp. p. 8192; Gaz. vol. 154; p. 1379.
Dean, John R., Hartford, Conn. Base-ball bat. No. 979,266; Dec. 20; Sp. p. 4030; Gaz. vol. 161; p. 693.
Dean, John R., Girard, assignor, by mesne assignments, to G. H. Barlow and J. J. Desmond, Corry, Pa. Wire-bending machine. No. 977,515; Dec. 6; Sp. p. 211; Gaz. vol. 161; p. 33.
Dean, John S., Wheatland, Iowa. Surgical device for expanding collapsed lungs. No. 978,708; Dec. 13; Sp. p. 2791; Gaz. vol. 161; p. 475.
Dean, Joseph N., Stockport, England. Fly-catcher. No. 968,237; Aug. 23; Sp. p. 5127; Gaz. vol. 157; p. 883.
Dean, Mark, New York, N. Y. Gas-burner. No. 968,032; Aug. 23; Sp. p. 4662; Gaz. vol. 157; p. 814.
Dean, Patrick C. (See Rubrecht and Dean.)
Dean Rapid Telegraph Co. (See Dean, Robert L., assignor.)

Alphabetical list of patentees—Continued.

Dean, Rexford, Findlay, Ohio. Electromagnetic propelling system. No. 964,498; July 19; Sp. p. 3186; Gaz. vol. 156; p. 552.
Dean, Robert L., Kansas City, Mo., assignor, by mesne assignments, to Dean Rapid Telegraph Co. Telegraph apparatus. No. 963,213; July 5; Sp. p. 482; Gaz. vol. 156; p. 66.
Dean, Simeon, Steubenville, Ohio. Adjusting device for rolling-mills. No. 949,464; Feb. 15; Sp. p. 3535; Gaz. vol. 151; p. 617.
Dean, T. G. (See Wright, Joseph H., assignor.)
Dean, William W., Chicago, Ill., assignor, by mesne assignments, to Consolidated Fire Alarm Company, New York, N. Y. Telephone system. No. 950,896; Mar. 1; Sp. p. 914; Gaz. vol. 152; p. 146.
Dean, William W., Chicago, Ill., assignor, by mesne assignments, to Consolidated Fire Alarm Company, New York, N. Y. Combined telephone and fire-alarm or kindred service system. No. 955,056; Apr. 12; Sp. p. 2950; Gaz. vol. 153; p. 500.
Dean, William W., Chicago, Ill., assignor, by mesne assignments, to Consolidated Fire Alarm Company, New York, N. Y. Combined telephone and alarm or kindred service system. No. 967,113; Aug. 9; Sp. p. 2764; Gaz. vol. 157; p. 453.
Dean, William W., Chicago, Ill., assignor, by mesne assignments, to Consolidated Fire Alarm Company, New York, N. Y. Combined telephone and alarm or kindred service system. No. 978,709; Dec. 13; Sp. p. 2793; Gaz. vol. 161; p. 476.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 958,856; May 24; Sp. p. 5318; Gaz. vol. 154; p. 895.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Lightning-arrester. No. 959,120; May 24; Sp. p. 5867; Gaz. vol. 154; p. 983.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 963,875; July 12; Sp. p. 1901; Gaz. vol. 156; p. 312.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-receiver. No. 964,622; July 19; Sp. p. 3479; Gaz. vol. 156; p. 595.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Electrical condenser. No. 965,992; Aug. 2; Sp. p. 311; Gaz. vol. 157; p. 51.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Annunciator. No. 968,646; Aug. 30; Sp. p. 5983; Gaz. vol. 157; p. 1052.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Electrical condenser. No. 971,667; Oct. 4; Sp. p. 330; Gaz. vol. 159; p. 58.
Dear, William H., Anthony, Kans. Combination egg-cabinet. No. 977,075; Nov. 29; Sp. p. 6628; Gaz. vol. 160; p. 1129.
Dearborn, Frank H. (See Emden and Dearborn.)
Dearborn, John S., Lynn, Mass. Gas-stove. No. 965,162; July 26; Sp. p. 4671; Gaz. vol. 156; p. 809.
Dearborn, Richard J., Beverly, assignor of one-half to C. B. Dean, Boston, Mass. Heel-protector. No. 970,692; Sept. 20; Sp. p. 3326; Gaz. vol. 158; p. 571.
Deardorff, John W., Oakland, Oreg. Square. No. 965,088; July 19; Sp. p. 4527; Gaz. vol. 156; p. 754.
Dearing, Joseph W., assignor of one-half to W. S. Bullis, Los Angeles, Cal. Safety-burner. No. 955,949; Apr. 26; Sp. p. 4892; Gaz. vol. 153; p. 866.
Deasy, John A., Detroit, Mich. Valve. No. 960,280; June 7; Sp. p. 80; Gaz. vol. 155; p. 17.
Deasy, Peter A., Oakland, Cal. Boiler. No. 966,532; Aug. 9; Sp. p. 1503; Gaz. vol. 157; p. 258.
Deatherage, Isaac, West Duluth, Minn. Fire-escape. No. 947,482; Jan. 25; Sp. p. 5547; Gaz. vol. 150; p. 922.
Deaton, Percy E., assignor of one-half to A. W. Colson, Mooresville, N. C. Rolling and seaming machine. No. 969,249; Sept. 6; Sp. p. 217; Gaz. vol. 158; p. 35.
Deats, Philip, Mattawan, and T. Haas, Kalamazoo, Mich. Shaving-mug. No. 963,749; July 12; Sp. p. 1603; Gaz. vol. 156; p. 269.
Debay, George C. (See Francart, Debay, Johnston, and Couch.)
Debladis, Gustave, Paris, France. Cushion-tire. No. 963,750; July 12; Sp. p. 1604; Gaz. vol. 156; p. 270.
Deboo, Robert. (See Eakin and Deboo.)
Debose, Albert S., Springfield, Ill. Bracket for supporting curtain-poles and shade-rollers. No. 945,494; Jan. 4; Sp. p. 1062; Gaz. vol. 150; p. 164.
Decarie, Alexander S. (See Decarie, Felix L., A. S., and L. A. R.)
Decarie, Felix L., Minneapolis, Minn., assignor, by mesne assignments, to Decarie Incinerator Company. Garbage evaporator and crematory. No. 954,855; Apr. 12; Sp. p. 2539; Gaz. vol. 153; p. 433.
Decarie, Felix L., A. S., and L. A. R., Minneapolis, Minn. Incinerator. No. 951,905; Mar. 15; Sp. p. 2950; Gaz. vol. 152; p. 534.
Decarie Incinerator Company. (See Decarie, Felix L., assignor.)
Decarie, Louis A. R. (See Decarie, Felix L., A. S., and L. A. R.)
Decies, Maria G., Slough, England. Score-register. No. 959,203; May 24; Sp. p. 6045; Gaz. vol. 154; p. 1010.
Deck, Henry, assignor to John Braun & Sons, Philadelphia, Pa. Grass-catching device for lawn-mowers. No. 959,723; May 31; Sp. p. 7119; Gaz. vol. 154; p. 1209.
Deckebach, Henry E., Cincinnati, Ohio. Brewing beer of low alcoholic contents. No. 977,603; Dec. 6; Sp. p. 434; Gaz. vol. 161; p. 63.
Deckelman, George F., *et al.* (See Dibble, Frank Y., assignor.)
Decker, Alexander C., Keokuk, Iowa. Wall tie or bond. No. 961,584; June 14; Sp. p. 2776; Gaz. vol. 155; p. 481.
Decker, Edward E., *et al.* (See Gierth, William, assignor.)
Decker, Edwin S., Malden, assignor to Gibby Foundry Company, East Boston, Mass. Sash-weight. No. 946,113; Jan. 11; Sp. p. 2427; Gaz. vol. 150; p. 404.
Decker Electrical Manufacturing Company. (See Decker, Frank A., assignor.)
Decker, Frank A., Philadelphia, Pa., assignor to Decker Electrical Manufacturing Company, Wilmington, Del. Electric battery. No. 957,192; May 10; Sp. p. 1483; Gaz. vol. 154; p. 265.
Decker, Frank A., Philadelphia, Pa., assignor to Decker Electrical Manufacturing Company, Wilmington, Del. Battery-tank system. No. 971,597; Oct. 4; Sp. p. 187; Gaz. vol. 159; p. 34.
Decker, Harry R., Houston, Tex. Strainer for oil and water wells. No. 958,100; May 17; Sp. p. 3611; Gaz. vol. 154; p. 608.
Decker, Harry R., Houston, Tex. Well-screen. No. 975,333; Nov. 8; Sp. p. 2823; Gaz. vol. 160; p. 457.
Decker, Harry R., Houston, Tex. Well-screen. No. 979,748; Dec. 27; Sp. p. 5050; Gaz. vol. 161; p. 879.
Decker, Harry R., Houston, Tex., and R. W. Houk, Vinita, Okla. Well-screen. No. 975,334; Nov. 8; Sp. p. 2824; Gaz. vol. 160; p. 457.
Decker, John J., Syracuse, N. Y. Jar-top fastener. No. 952,881; Mar. 22; Sp. p. 4949; Gaz. vol. 152; p. 891.
Decker, Phillip J., San Francisco, Cal. Door-closing device. No. 962,198; June 21; Sp. p. 4115; Gaz. vol. 155; p. 714.
Decker, Sol, Chicago, Ill. Lady's canvas coat-front. No. 967,888; Aug. 23; Sp. p. 4336; Gaz. vol. 157; p. 765.
Decker, Theodore L., Charlottesville, assignor of one-half to W. R. White, Greenfield, Ind. Drive well-point. No. 945,490; Jan. 4; Sp. p. 1054; Gaz. vol. 150; p. 162.
Decker, William A., Crowley, Tex. Churn. No. 962,947; June 28; Sp. p. 5678; Gaz. vol. 155; p. 995.
Decker, William H., assignor to The Solvay Process Company, Syracuse, N. Y. Making bilged barrel-bodies. No. 957,457; May 10; Sp. p. 2060; Gaz. vol. 154; p. 357.
Deckman, Elmer M., Woodlyn, N. J. Jumping-rope. No. 964,623; July 19; Sp. p. 3481; Gaz. vol. 156; p. 595.
Dedolph, Eduard, Kaslo, British Columbia, Canada. Smelting. No. 959,924; May 31; Sp. p. 7566; Gaz. vol. 154; p. 1278.
Dedrick, Nicholas. (See Schuette and Dedrick.)
Deeds, Charles B., Mount Carroll, Ill. Protector and fastener for horse-collars. No. 974,755; Nov. 1; Sp. p. 1535; Gaz. vol. 160; p. 235.
Deeds, Reed, Cuyahoga Falls, Ohio. Concrete-paving machine. No. 952,882; Mar. 22; Sp. p. 4950; Gaz. vol. 152; p. 891.
Deeg, Charles F. (See Paquette and Deeg.)
Deeg, Frank. (See Deeg, Gustav and F.)
Deeg, Gustav and F., New York, N. Y. Attachment for controlling the fuel-supply of internal-combustion engines. No. 963,526; July 5; Sp. p. 1134; Gaz. vol. 156; p. 172.
Deeg, Martin, Owatonna, Minn. Combined churn and butter-worker. No. 954,079; Apr. 5; Sp. p. 795; Gaz. vol. 153; p. 138.
Deegan, Edward J., New York, N. Y. Pipe connection for fluid-heating systems. No. 961,341; June 14; Sp. p. 2276; Gaz. vol. 155; p. 401.
Deelen, Jan, Heeze, Netherlands. Grinding-roll. No. 964,000; July 12; Sp. p. 2162; Gaz. vol. 156; p. 353.
Deemer, Frank E., and E. W. Korff, Brooklyn, N. Y.; said Deemer assignor to said Korff. Car-fender. No. 962,323; June 21; Sp. p. 4376; Gaz. vol. 155; p. 755.
Deeming, Herbert. (See Deeming, John J., assignor.)
Deeming, John J., assignor of one-half to H. Deeming, Chicago, Ill. Humidor. No. 950,689; Mar. 1; Sp. p. 482; Gaz. vol. 152; p. 78.
Deems, John F., New York, N. Y. Oil-filter. No. 966,173; Aug. 2; Sp. p. 714; Gaz. vol. 157; p. 112.
Deere & Company. (See Melvin, Charles H., assignor.)
Deere & Company. (See Sklovsky and Mixter, assignors.)
Deere & Mansur Company. (See White, Charles E., assignor.)
Deering, Henry, Providence, R. I., assignor to Crompton & Knowles Loom Works. Jacquard mechanism for looms. No. 953,379; Mar. 29; Sp. p. 6035; Gaz. vol. 152; p. 1085.
Deering, Uriah H., Cleburne, Tex. Attachment for coffins. No. 957,941; May 17; Sp. p. 3073; Gaz. vol. 154; p. 551.
Dees, Mark A., Pascagoula, Miss. Voting mechanism. No. 948,757; Feb. 8; Sp. p. 2080; Gaz. vol. 151; p. 354.
Defenbaugh, Jesse, Denio, Oreg. Railway-spike. No. 968,544; Aug. 30; Sp. p. 5772; Gaz. vol. 157; p. 1016.
Defender Photo Supply Company. (See Moh, Oswald, assignor.)

Alphabetical list of patentees—Continued.

Defiance Lantern & Stamping Co. (See Hill, James H., assignor.)
Defiance Lantern & Stamping Co. (See Minns, Earnest H., assignor.)
Defiance Pressed Steel Company, The. (See Klenk, Gottlieb, assignor.)
Defren, George, Brookline, Mass. Preparation of beverages. No. 960,841; June 7; Sp. p. 1218; Gaz. vol. 155; p. 203.
Degagne, George, Houghton, Mich. Tide-motor. No. 978,117; Dec. 6; Sp. p. 1498; Gaz. vol. 161; p. 241.
Degan, William B., New York, N. Y. Sanitary bottle-lip-protecting device. No. 960,842; June 7; Sp. p. 1219; Gaz. vol. 155; p. 203.
Degan, William B., New York, N. Y. Sanitary bottle-lip protector. No. 960,843; June 7; Sp. p. 1220; Gaz. vol. 155; p. 203.
Degen, Julius. (See Clymer and Degen.)
Degener, Heinrich, Berlin, Germany. Type setting and casting machine. No. 948,291; Feb. 1; Sp. p. 1050; Gaz. vol. 151; p. 172.
Degener, Heinrich, Berlin, Germany. Line setting and casting machine. No. 977,280; Nov. 29; Sp. p. 7056; Gaz. vol. 160; p. 1200.
Degges, William H., Washington, D. C. Eye-shade. No. 947,636; Jan. 25; Sp. p. 5869; Gaz. vol. 150; p. 974.
Degner, C. F. (See Ponarouse, George, assignor.)
Degner, George C., Chicago, Ill. Pan and plate lifter. No. 949,650; Feb. 15; Sp. p. 3895; Gaz. vol. 151; p. 678.
Degoumois, Charles, assignor to C. Degoumois, Berne, Switzerland, and Sté Seghers et Paradis, Paris, France. Device for braking tram-cars and electric-railway carriages. No. 972,514; Oct. 11; Sp. p. 2182; Gaz. vol. 159; p. 377.
Dehetre, Walter and W., Compton, Cal. Milk-condenser. No. 956,571; May 3; Sp. p. 139; Gaz. vol. 154; p. 24.
Dehetre, Wilfred. (See Dehetre, Walter and W.)
Dehling, Fred, Portland, Oreg. Mop and brush holder. No. 950,897; Mar. 1; Sp. p. 919; Gaz. vol. 152; p. 146.
Dehn, Adolph F., Williamsburg, Kans. Box-lifter. No. 964,090; July 12; Sp. p. 2345; Gaz. vol. 156; p. 385.
Dehn, William H., assignor to The Sanitary Company, Cleveland, Ohio. Stop and waste cock. No. 955,770; Apr. 19; Sp. p. 4487; Gaz. vol. 153; p. 774.
Dehn, William H., assignor to The Sanitary Company, Cleveland, Ohio. Sill-cock and the like. No. 967,338; Aug. 16; Sp. p. 3218; Gaz. vol. 157; p. 557.
Dehn, William H., assignor to Sanitary Company, Cleveland, Ohio. Antiscald-valve. No. 967,339; Aug. 16; Sp. p. 3219; Gaz. vol. 157; p. 558.
Deidesheimer, Philip, *et al.* (See Moran, Thomas, assignor.)
Deihl, McClellen, Washingtonville, Pa. Hog-scraper. No. 958,101; May 17; Sp. p. 3612; Gaz. vol. 154; p. 609.
Deihl, Reuben G., Cresson, Pa. Adjustable lamp-bracket. No. 963,000; June 28; Sp. p. 5786; Gaz. vol. 155; p. 1012.
Deiller, Eugene M. (See Fajen and Deiller.)
Deimel, Jerome L. (See Hauer, Joseph, assignor.)
Deimel, Rudolph, Chicago, Ill. Sofa-bed. No. 947,298; Jan. 25; Sp. p. 5088; Gaz. vol. 150; p. 859.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 957,039; May 3; Sp. p. 1167; Gaz. vol. 154; p. 185.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Orange vat dye. No. 957,040; May 3; Sp. p. 1167; Gaz. vol. 154; p. 185.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 957,041; May 3; Sp. p. 1168; Gaz. vol. 154; p. 185.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 957,042; May 3; Sp. p. 1169; Gaz. vol. 154; p. 185.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 957,146; May 3; Sp. p. 1368; Gaz. vol. 154; p. 219.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing and product thereof. No. 972,065; Oct. 4; Sp. p. 1206; Gaz. vol. 159; p. 204.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing and product thereof. No. 972,066; Oct. 4; Sp. p. 1207; Gaz. vol. 159; p. 204.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Printing-paste. No. 978,138; Dec. 13; Sp. p. 1572; Gaz. vol. 161; p. 279.
Deinet, Joseph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Printing-paste. No. 978,139; Dec. 13; Sp. p. 1572; Gaz. vol. 161; p. 279.
Deis Pump Company, The. (See Gerstenberg, Ernst, assignor.)
Deiss, Auguste, St. Barnabé, Marseille, France. Manufacturing cellulose. No. 967,001; Aug. 9; Sp. p. 2520; Gaz. vol. 157; p. 415.
Deitsch, Frank M., Cochranton, Pa. Eaves-trough guard. No. 951,803; Mar. 15; Sp. p. 2732; Gaz. vol. 152; p. 499.
Deitz, Henry, Denver, Colo. Closure. No. 950,372; Feb. 22; Sp. p. 5476; Gaz. vol. 151; p. 960.
Deitz, Lewis. (See Clapp, George M., assignor.)
Del Valle, Armando, assignor of one-half to C. J. Bender, New York, N. Y. Trolley for electric cars. No. 976,728; Nov. 22; Sp. p. 5805; Gaz. vol. 160; p. 983.
Delabarre, Frank A., Boston, Mass. Identification device. No. 964,499; July 19; Sp. p. 3189; Gaz. vol. 156; p. 552.
Delafond, Morcrette, Mexico, Mexico. Recovery of rubber. No. 966,385; Aug. 2; Sp. p. 1120; Gaz. vol. 157; p. 180.
Delage, Marcel, Paris, France. System of heating by means of radio-incandescent bodies. No. 975,837; Nov. 15; Sp. p. 3875; Gaz. vol. 160; p. 654.
Delaih, Fannie M., Chicago, Ill. Cooking device. No. 976,252; Nov. 22; Sp. p. 4807; Gaz. vol. 160; p. 821.
Delamater, George R., Strong, Colo. Sink-and-float testing apparatus. No. 961,846; June 21; Sp. p. 3333; Gaz. vol. 155; p. 593.
Delaney, John T., Worcester, Mass. Bung. No. 956,797; May 3; Sp. p. 636; Gaz. vol. 154; p. 101.
Delaney, Lawrence F., Watertown, N. Y. Resilient wheel. No. 976,989; Nov. 29; Sp. p. 6439; Gaz. vol. 160; p. 1099.
Delaney, Richard P., Fairchance, Pa. Guarded frog. No. 968,837; Aug. 30; Sp. p. 6403; Gaz. vol. 157; p. 1116.
Delano, Charles G., Berkley, Mass. Automobile mowing-machine. No. 957,660; May 10; Sp. p. 2465; Gaz. vol. 154; p. 426.
Delano, James K. (See Bishop and Delano.)
Delany, Charles M., Poynette, Wis. Horseshoe-calk. No. 961,759; June 21; Sp. p. 3141; Gaz. vol. 155; p. 565.
Delany, Patrick B., South Orange, N. J. Telegraphic transmitter. No. 947,224; Jan. 25; Sp. p. 4893; Gaz. vol. 150; p. 834.
Delany, Patrick B., South Orange, N. J. Telegraphic keyboard transmitting apparatus. No. 957,312; May 10; Sp. p. 1763; Gaz. vol. 154; p. 308.
Delasson, Eugène. (See Michaud and Delasson.)
Delaunay-Belleville, Louis M. G., Paris, France. High-power boiler. No. 951,679; Mar. 8; Sp. p. 2467; Gaz. vol. 152; p. 427.
Delaunay-Belleville, Louis M. G., Paris, France, assignor to Société Anonyme des Etablissements Delaunay-Belleville, St. Denis, France. Feed arrangement for tube-boilers. No. 969,042; Aug. 30; Sp. p. 6806; Gaz. vol. 157; p. 1186.
Delaveau, Louis J. M., Grenoble, France. System for closing boots by means of spring-buttons. No. 972,012; Oct. 18; Sp. p. 3314; Gaz. vol. 159; p. 576.
Delaware, Lackawanna & Western Railroad Company, The. (See Neafie, Andrew J., assignor.)
Delaware, Lackawanna & Western Railroad Company. (See Snell and Hand, assignors.)
Delay, Noah. (See Dow, Floyd, assignor.)
Delbrouck, Georges, assignor to H. J. Beaurain, Brussels, Belgium. Manufacturing wall-facing tiles of the faience kind. No. 956,307; Apr. 26; Sp. p. 5693; Gaz. vol. 153; p. 991.
Delcamp, B. E. (See Packer, Harry E., assignor.)
Delius, George. (See Tatro and Delius.)
Dell, John, St. Louis, Mo. Combined dip-regulator and tar-seal for gas apparatus. No. 951,633; Mar. 8; Sp. p. 2377; Gaz. vol. 152; p. 411.
Dellemuth, Carrie D. (See Mack, William J., assignor.)
Dellwo, John, Grantsburg, Wis. Railway-spike. No. 947,887; Feb. 1; Sp. p. 236; Gaz. vol. 151; p. 39.
Delmage, William J., Camden East, Ontario, Canada. Washing-machine. No. 945,021; Jan. 4; Sp. p. 21; Gaz. vol. 150; p. 6.
Delp, Samuel D., South Bethlehem, Pa. Suspensory bandage. No. 967,736; Aug. 16; Sp. p. 4041; Gaz. vol. 157; p. 692.
Delpeuch, Leon A., Neuilly-sur-Seine, assignor to A. Gildenmeister, Paris, France. Whistle, siren, or the like. No. 957,661; May 10; Sp. p. 2469; Gaz. vol. 154; p. 427.
Delphos Manufacturing Company, The. (See Leilich and Burger, assignors.)
Delvigne, Maurice, Namur, Belgium. Explosive. No. 977,076; Nov. 29; Sp. p. 6630; Gaz. vol. 160; p. 1130.
Delzeit, Bertram J. (See Dever and Delzeit.)
Delzeit, Peter J., Jr., Rosedale, N. J. Paper cap. No. 968,922; Aug. 30; Sp. p. 6579; Gaz. vol. 157; p. 1145.
Delzer, Jacob, Freeman, S. D. Forging and cutting machine. No. 953,737; Apr. 5; Sp. p. 112; Gaz. vol. 153; p. 22.
Demandre, Georges, Paris, France. Necktie-holder. No. 972,440; Oct. 11; Sp. p. 1994; Gaz. vol. 159; p. 350.
Demarchi, Joseph, Jersey City Heights, N. J. Work-holder. No. 967,175; Aug. 16; Sp. p. 2896; Gaz. vol. 157; p. 502.
Demarest, David C. (See Senn and Demarest.)
Demarest, David C., San Francisco, Cal. Grinding-barrel. No. 970,020; Sept. 13; Sp. p. 1904; Gaz. vol. 158; p. 323.
Dematteis, Julian, Batavia, Iowa. Railway-tie. No. 971,256; Sept. 27; Sp. p. 4512; Gaz. vol. 158; p. 789.
Dembinski, John, assignor of one-half to M. Baron, Newark, N. J. Padlock. No. 954,856; Apr. 12; Sp. p. 2545; Gaz. vol. 153; p. 434.
Dement, Isaac S., St. Nicholas, Fla. Printing-wheel. No. 956,891; May 3; Sp. p. 854; Gaz. vol. 154; p. 135.

Alphabetical list of patentees—Continued.

Dement, Wallace E., and A. C. Crawford, Blaine, Wash. Cattle-guard. No. 962,554; June 28; Sp. p. 4908; Gaz. vol. 155; p. 860.
Demeter, Josef, Cleveland, Ohio. Sand-molding machine. No. 960,844; June 7; Sp. p. 1222; Gaz. vol. 155; p. 203.
Deming Apparatus Company. (See Deming, Eugene W., assignor.)
Deming Apparatus Company. (See Deming and Gaiennie, assignors.)
Deming Company, The. (See Deming, William L., assignor.)
Deming Company, The. (See Emeny, Frederick J., assignor.)
Deming Company, The. (See Garber, Jesse B., assignor.)
Deming Company, The. (See Randolph, Alfred, assignor.)
Deming Company, The. (See Stratton, James M., assignor.)
Deming, Eugene W., assignor to Deming Apparatus Company, New York, N. Y. Closed fiber-strainer. No. 962,324; June 21; Sp. p. 4376; Gaz. vol. 155; p. 755.
Deming, Eugene W., New York, N. Y., and A. F. Gaiennie, New Orleans, La., assignors to Deming Apparatus Company. Apparatus for treating sugar-juices. No. 967,340; Aug. 16; Sp. p. 3223; Gaz. vol. 157; p. 558.
Deming, William L., Salem, Ohio. Lock for windows and analogous devices. No. 957,600; May 10; Sp. p. 2332; Gaz. vol. 154; p. 405.
Deming, William L., assignor to The Deming Company, Salem, Ohio. Flushing apparatus. No. 952,240; Mar. 15; Sp. p. 3583; Gaz. vol. 152; p. 644.
Dempsey, Edward R., Atlantic City, N. J. Feed-bag. No. 970,021; Sept. 13; Sp. p. 1905; Gaz. vol. 158; p. 323.
Dempsey, Henry J., Knoxville, Tenn. Shade and curtain hanger. No. 962,132; June 21; Sp. p. 3976; Gaz. vol. 155; p. 691.
Dempsey, John C. (See Scholler and Dempsey.)
Dempster, Charles B., and W. Elliott, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Grain-drill boot. No. 967,341; Aug. 16; Sp. p. 3225; Gaz. vol. 157; p. 559.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Arc-lamp. No. 949,353; Feb. 15; Sp. p. 3309; Gaz. vol. 151; p. 579.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Alloy. No. 953,412; Mar. 29; Sp. p. 6105; Gaz. vol. 152; p. 1097.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 953,598; Mar. 29; Sp. p. 6497; Gaz. vol. 152; p. 1161.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Preventing surface oxidation of resistance-conductors. No. 957,193; May 10; Sp. p. 1485; Gaz. vol. 154; p. 265.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 962,497; June 28; Sp. p. 4770; Gaz. vol. 155; p. 840.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Electrical-resistance alloy. No. 963,123; July 5; Sp. p. 253; Gaz. vol. 156; p. 34.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Electrode. No. 976,990; Nov. 29; Sp. p. 6443; Gaz. vol. 160; p. 1100.
Dempster, Leonard E., Schenectady, N. Y., assignor to General Electric Company. Mercury-vapor lamp. No. 974,037; Oct. 25; Sp. p. 5504; Gaz. vol. 159; p. 954.
Dempster Mill Manufacturing Company. (See Dempster and Elliott, assignors.)
Dempster Mill Manufacturing Company. (See Elliott and Schaachter, assignors.)
Dempster Mill Manufacturing Company. (See Elliott, Schlachter, and Tolles, assignors.)
Dempster & Sons, Robert. (See Brooke, Reuben M., assignor.)
Denegre, Charles, assignor of one-half to T. C. Cairns, Birmingham, Ala. Valve for explosive-engines. No. 955,390; Apr. 19; Sp. p. 3670; Gaz. vol. 153; p. 645.
Deniéport, Edouard, Paris, assignor to Société Anonyme des Appareils Electriques Nieuport, Suresnes, France. High-tension magneto-generator. No. 952,561; Mar. 22; Sp. p. 4259; Gaz. vol. 152; p. 781.
Denio General Electric Company. (See Bronson, Frederick S., assignor.)
Denis, Constant, Fépin, assignor to E. Colignon, Paris, France. Smoke-consumer. No. 975,402; Nov. 15; Sp. p. 2975; Gaz. vol. 160; p. 506.
Denis, John, and R. Click, Little Falls, Minn.; said Click assignor to said Denis. Pump-rod coupling. No. 949,222; Feb. 15; Sp. p. 3010; Gaz. vol. 151; p. 535.
Denison, Charles A., Lockport, La. Lumber-stacker. No. 978,565; Dec. 13; Sp. p. 2497; Gaz. vol. 161; p. 427.
Denison, George E., Vernon, N. Y. Mail-bag catcher and deliverer. No. 953,519; Mar. 29; Sp. p. 6331; Gaz. vol. 152; p. 1135.
Denison, George H., Leeds, England. Weighing-machine. No. 951,777; Mar. 8; Sp. p. 2663; Gaz. vol. 152; p. 460.
Denison, Preussner and Company. (See Banks, James W., assignor.)
Denison, Wallace B., *et al.* (See Dickey, John B., assignor.)
Denison, William W., *et al.* (See Dickey, John B., assignor.)
Denmead, John W., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making sheet-metal boxes. No. 949,756; Feb. 22; Sp. p. 4130; Gaz. vol. 151; p. 747.
Denne, Mark T., Rushden, Northampton, England. Machine for attaching soles to boots and shoes by screws. No. 958,373; May 17; Sp. p. 4312; Gaz. vol. 154; p. 704.
Denneen, Francis S., assignor to The Ohio Brass Company, Mansfield, Ohio. Signal system for electric cars. No. 948,758; Feb. 8; Sp. p. 2087; Gaz. vol. 151; p. 354.
Denney, Harrison A., Reardan, Wash. Sled-brake. No. 947,676; Jan. 25; Sp. p. 5940; Gaz. vol. 150; p. 988.
Denning, Joseph M., Cedar Rapids, Iowa. Machine for reeling and cutting off wire fencing. No. 955,584; Apr. 19; Sp. p. 4050; Gaz. vol. 153; p. 711.
Denning, Patrick F., Cleveland, Ohio. Name-holder for pews. No. 961,431; June 14; Sp. p. 2444; Gaz. vol. 155; p. 431.
Dennis, Adolphus S., assignor to Bates, Fouts & Hull, Cleveland, Ohio. Combined type-writing and computing machine. No. 949,979; Feb. 22; Sp. p. 4622; Gaz. vol. 151; p. 827.
Dennis, Adolphus S., Lakewood, Ohio, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 964,091; July 12; Sp. p. 2346; Gaz. vol. 156; p. 386.
Dennis, Adolphus S., Lakewood, Ohio, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 964,220; July 12; Sp. p. 2591; Gaz. vol. 156; p. 427.
Dennis, Arthur C., Pocomoke, Md. Attachment for car-trucks. No. 969,043; Aug. 30; Sp. p. 6810; Gaz. vol. 157; p. 1187.
Dennis, George W., Harvey, Ill. Concentrator or separator. No. 971,025; Sept. 27; Sp. p. 4007; Gaz. vol. 158; p. 712.
Dennis, John J., Chicago, Ill., assignor to Dennis Novelty Ladder Company. Ladder. No. 958,732; May 24; Sp. p. 5018; Gaz. vol. 154; p. 850.
Dennis, Julia A., Bemidji, Minn. Corset attachment. No. 967,342; Aug. 16; Sp. p. 3227; Gaz. vol. 157; p. 559.
Dennis, Lloyd B., Norwalk, Ohio. Cigar-clipper. No. 961,110; June 14; Sp. p. 1758; Gaz. vol. 155; p. 319.
Dennis, Mollie A., Deposit, N. Y. Dish-drainer. No. 958,857; May 24; Sp. p. 5326; Gaz. vol. 154; p. 896.
Dennis Novelty Ladder Company. (See Dennis, John J., assignor.)
Dennis, Oliver C., Chicago, Ill. Telephone system. No. 965,876; Aug. 2; Sp. p. 56; Gaz. vol. 157; p. 12.
Dennis, Oliver C., Chicago, Ill. Relay. No. 965,877; Aug. 2; Sp. p. 60; Gaz. vol. 157; p. 12.
Dennis, Oliver C., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Electric service-meter. No. 966,809; Aug. 9; Sp. p. 2117; Gaz. vol. 157; p. 351.
Dennis, Samuel A., Los Angeles, Cal. Faucet. No. 971,361; Sept. 27; Sp. p. 4709; Gaz. vol. 158; p. 822.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Hay-loader. No. 959,477; May 31; Sp. p. 6607; Gaz. vol. 154; p. 1127.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Draft connection for hay-loaders. No. 959,724; May 31; Sp. p. 7122; Gaz. vol. 154; p. 1209.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Hay-loader. No. 960,845; June 7; Sp. p. 1223; Gaz. vol. 155; p. 204.
Dennis, Samuel K., and F. W. Rice, Chicago, Ill., assignors to International Harvester Company. Feed-grinder. No. 956,892; May 3; Sp. p. 856; Gaz. vol. 154; p. 136.
Dennis, Willard W., assignor of one-half to J. E. Ward, Los Angeles, Cal. Roller-bearing. No. 958,957; May 24; Sp. p. 5535; Gaz. vol. 154; p. 929.
Dennis, William, Pen Argyl, Pa. Grave-vault mold. No. 979,062; Dec. 20; Sp. p. 3546; Gaz. vol. 161; p. 621.
Dennison Manufacturing Co. (See Thompson, Frank H., assignor.)
Dennison Mfg. Company. (See Riley, Bernard J., assignor.)
Dennison, Wilburn N., Merchantville, N. J., assignor to Victor Talking Machine Company. Sound-box. No. 978,566; Dec. 13; Sp. p. 2501; Gaz. vol. 161; p. 427.
Dennison, William, New Orleans, La. Machine for beveling shoe-soles. No. 958,374; May 17; Sp. p. 4317; Gaz. vol. 154; p. 705.
Denny, Christopher C., *et al.* (See Vesey, Richard H., assignor.)
Denny, Rubin J., Beverly, Ark. Theatrical appliance. No. 971,834; Oct. 4; Sp. p. 673; Gaz. vol. 159; p. 118.
Densmore, Thomas H., assignor of one-half to R. E. Hamilton, Grand Valley, Ontario, Canada. Spark-arrester for locomotives. No. 951,726; Mar. 8; Sp. p. 2538; Gaz. vol. 152; p. 442.
Densmore Typewriter Company. (See Barron, Walter J., assignor.)
Densmore Typewriter Company. (See Woodward, Oscar, assignor.)
Denson, John M., Cortland, N. Y. Piston-pump. No. 965,132; July 19; Sp. p. 4605; Gaz. vol. 156; p. 768.

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Denton, Gilbert H., Denver, Colo. Band-brake. No. 977,714; Dec. 6; Sp. p. 664; Gaz. vol. 161; p. 101.
Denton, Mike. (See Tucker, James D., assignor.)
Denton, William A. (See Hunsicker and Denton.)
Denver Engineering Works Co., The. (See Lockwood, Frank A., assignor.)
Denver Fire Clay Co. (See Case, Willis W., assignor.)
Denver Fire Clay Company, The. (See Case, Willis W., Sr., assignor.)
Denver Rock Drill & Machinery Company, The. (See Leonard, William H., assignor.)
Denver Rock Drill & Machinery Company, The. (See Waugh, Daniel S., assignor.)
Denzer, Jacob, Strasburg, Ohio. Head-rest. No. 969,251; Sept. 6; Sp. p. 222; Gaz. vol. 158; p. 36.
Depew, James I., Loup City, Nebr. Disk-sharpener. No. 979,831; Dec. 27; Sp. p. 5239; Gaz. vol. 161; p. 907.
Depp, William H., Brookville, Pa. Photographic developing-rack. No. 967,114; Aug. 9; Sp. p. 2771; Gaz. vol. 157; p. 454.
Deppe, Dennis F., Newbern, N. C. Cultivator. No. 964,500; July 19; Sp. p. 3192; Gaz. vol. 156; p. 552.
Deppen, Isaac M., Scranton, Pa. Sash-fastener. No. 966,665; Aug. 9; Sp. p. 1771; Gaz. vol. 157; p. 302.
Dequede, William, New Orleans, La. Log hauling and loading machine. No. 951,180; Mar. 8; Sp. p. 1449; Gaz. vol. 152; p. 262.
Dér, Alexander, and M. Fischer, West Allis, Wis. Acetylene-gas generator. No. 948,089; Feb. 1; Sp. p. 650; Gaz. vol. 151; p. 105.
Derby, John H., assignor to General Fire Extinguisher Company, New York, N. Y. Reducing-valve. No. 975,838; Nov. 15; Sp. p. 3877; Gaz. vol. 160; p. 654.
Derbyshire, Sidney T., Beloit, Wis. Measuring instrument. No. 974,364; Nov. 1; Sp. p. 655; Gaz. vol. 160; p. 98.
Derden, David, *et al.* (See Alden, James M., assignor.)
Derosier, Arthur, Jr., North Oxford, Mass. Lug-strap-supporting means. No. 949,794; Feb. 22; Sp. p. 4212; Gaz. vol. 151; p. 760.
Des Moineaux, Alfred V., assignor to H. Des Moineaux, Denver, Colo. Combination-tool for miners' use. No. 947,020; Jan. 18; Sp. p. 4497; Gaz. vol. 150; p. 740.
Des Moineaux, Helen. (See Des Moineaux, Alfred V., assignor.)
Deschamp, John, assignor of one-half to Edward Knapp, Corydon, Ind. Cotton-chopper. No. 965,572; July 26; Sp. p. 5583; Gaz. vol. 156; p. 950.
Deschamp, Julienne L., *et al.* (See Marchand, Omer, assignor.)
Deschamp, William D., and G. C. Jones, McAlester, Okla.; said Deschamp assignor to said Jones. Well-drilling machine. No. 969,044; Aug. 30; Sp. p. 6812; Gaz. vol. 157; p. 1187.
Deschamp, William D., Fort Smith Ark., and G. C. Jones, McAlester, Okla.; said Deschamp assignor to said Jones. Well-drilling derrick. No. 979,133; Dec. 20; Sp. p. 3742; Gaz. vol. 161; p. 648.
Deseniss & Jacobi Aktiengesellschaft. (See Darapsky, Ludwig H., assignor.)
Desgeorge, Raoul. (See Lebreil and Desgeorge.)
Desgraz, Adolphe, Hanover, Germany, assignor to Imbert Process Company, New York, N. Y. Treatment of zinc ores by the precipitation process. No. 975,217; Nov. 8; Sp. p. 2590; Gaz. vol. 160; p. 418.
Deslattes, Lezin J., Garyville, La. Fluid-level. No. 946,660; Jan. 18; Sp. p. 3687; Gaz. vol. 150; p. 617.
Desmarais, Charles, Hull, Quebec, Canada. Rock-extractor for drill-holes. No. 973,013; Oct. 18; Sp. p. 3315; Gaz. vol. 159; p. 576.
Desmolières, Hubert, Montereau-faut-Yonne, France. Pouring device. No. 975,937; Nov. 15; Sp. p. 4087; Gaz. vol. 160; p. 689.
Desmond, Cornelius L., San Francisco, Cal. Fishing-tackle. No. 953,125; Mar. 29; Sp. p. 5484; Gaz. vol. 152; p. 1001.
Desmond, J. J., *et al.* (See Dean, John R., assignor.)
Desmond, John, assignor to W. S. Potwin, Chicago, Ill. Compression-tester for explosive-engines. No. 946,661; Jan. 18; Sp. p. 3688; Gaz. vol. 150; p. 617.
Desmond, T. A., *et al.* (See Good, Thomas L., assignor.)
Desper, Thomas H., Newport News, Va. Tool-handle and tool-handle fastening. No. 946,896; Jan. 18; Sp. p. 4252; Gaz. vol. 150; p. 699.
Dessau, Morland M., London, England. Golf-ball. No. 951,756; Mar. 8; Sp. p. 2624; Gaz. vol. 152; p. 453.
Dessau, Morland M., London, England. Apparatus for removing foreign matter from india-rubber, gutta-percha, balata, and the like. No. 960,846; June 7; Sp. p. 1225; Gaz. vol. 155; p. 204.
Dessauer, Morris, and S. Baruch, New York, N. Y. Fastener for doors, shutters, and the like. No. 963,527; July 5; Sp. p. 1137; Gaz. vol. 156; p. 173.
Dessauer, Morris, and S. Baruch, New York, N. Y. Seal and knot-protector. No. 967,002; Aug. 9; Sp. p. 2522; Gaz. vol. 157; p. 415.
Dessureau, William H., Hazelhurst, Wis. Musical instrument. No. 959,318; May 24; Sp. p. 6267; Gaz. vol. 154; p. 1049.
Destefani, Paul, assignor of one-half to The New Transvaal Chemical Company, Limited, Johannesburg, Transvaal. Illuminating device for burning wax. No. 958,235; May 17; Sp. p. 3876; Gaz. vol. 154; p. 655.
Destree, Louis, Haren, Belgium. Making alkali thiosulfates. No. 961,760; June 21; Sp. p. 3142; Gaz. vol. 155; p. 565.
Désy, Louis A., Montreal, Quebec, Canada. Excavator. No. 949,354; Feb. 15; Sp. p. 3311; Gaz. vol. 151; p. 580.
Désy, Louis A., assignor to J. W. Harris, Montreal, Quebec, Canada. Excavating apparatus. No. 946,114; Jan. 11; Sp. p. 2429; Gaz. vol. 150; p. 404.
Detering, H. E. (See Foltin, Frank, assignor.)
Dethlefs, John J. O., and W. Wisner, Chehalis, Wash. Wrench. No. 967,889; Aug. 23; Sp. p. 4338; Gaz. vol. 157; p. 766.
Detrick, Jacob L. (See Snyder, Allison F., assignor.)
Detroit Can Company. (See Harbeck, Jervis R., assignor.)
Detroit Dental Manufacturing Company. (See Kerr, Mathew M., assignor.)
Detroit Mailing Machine Company. (See Schermack, Joseph J., assignor.)
Detroit Pneumatic Tool Company. (See Schweim, Herman, assignor.)
Detroit Seamless Steel Tubes Company. (See Thust, George J., assignor.)
Detroit Wire Spring Co. (See O'Brien, Falconer, assignor.)
Detroit Wire Spring Company. (See Rickerd, Fred S., assignor.)
Dettmann, Alexander, Judson, N. D. Nail-extractor. No. 971,835; Oct. 4; Sp. p. 675; Gaz. vol. 159; p. 119.
Dettrick, Leo, Stickney, S. D. Plow attachment. No. 962,893; June 28; Sp. p. 5588; Gaz. vol. 155; p. 977.
Detzner, Karl, Newark, N. J. Umbrella-stand. No. 971,977; Oct. 4; Sp. p. 1040; Gaz. vol. 159; p. 173.
Deucher, Eugene G., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for operating master-controllers. No. 957,662; May 10; Sp. p. 2470; Gaz. vol. 154; p. 427.
Deussen, Charles W., New York, N. Y. Garden-tool. No. 977,604; Dec. 6; Sp. p. 435; Gaz. vol. 161; p. 64.
Deussen, Karl E., Berlin, Germany. Spring suspension device for vehicles. No. 969,463; Sept. 6; Sp. p. 645; Gaz. vol. 158; p. 103.
Deuther, Lorenz A., Buffalo, N. Y. Composite board. No. 961,432; June 14; Sp. p. 2449; Gaz. vol. 155; p. 431.
Deutsche Gasglühlicht Aktien Gesellschaft. (See Schmalland, Hans, assignor.)
Deutsche Gasglühlicht Aktien Gesellschaft (Auergesellschaft). (See Remané, Gottschalk, and Hurwitz, assignors.)
Deutsche Gasglühlicht Aktiengesellschaft Auergesellschaft. (See Süssmann, Heinrich, assignor.)
Deutsche Gold- & Silber-Scheide-Anstalt vormals Rössler. (See Liebknecht, Otto, assignor.)
Deutsche Waffen- und Munitionsfabriken. (See Sonnberg, Wilhelm, assignor.)
Deutschle, Louis. (See Canida, Alonzo C., assignor.)
Deutschman, Paul R., and A. J. Kruse, Cleveland, Ohio. Picture-projecting apparatus. No. 963,876; July 12; Sp. p. 1904; Gaz. vol. 156; p. 313.
Devan, Andrew, Sandpoint, Idaho, assignor of one-half to T. R. Lynch, Drummond, Mont. Ladder. No. 972,684; Oct. 11; Sp. p. 2550; Gaz. vol. 159; p. 435.
Devaney, Martin T., *et al.* (See Davis, Homer L., assignor.)
Devecis, Frank. (See Dittrich and Devecis.)
Development and Funding Company, The. (See Townsend, Clinton P., assignor.)
Development & Investment Company. (See Goeb, Rudolph W., assignor.)
Dever, Bernard J., and B. J. Delzeit, Philadelphia, Pa. Pyrotechnic compound. No. 969,252; Sept. 6; Sp. p. 224; Gaz. vol. 158; p. 36.
Deverell, Arthur C. (See Heron, James C., assignor.)
Devey, Alfred J., *et al.* (See Devey, John, J., Jr., and W. A., assignors.)
Devey, John, Lehi, J. Devey, Jr., Garland, and W. A. Devey, American Fork, assignors of one-eighth to J. F. Devey, Garland, and one-eighth to A. J. Devey, Alpine, Utah. Beet topper and digger. No. 975,218; Nov. 8; Sp. p. 2591; Gaz. vol. 160; p. 418.
Devey, John, Jr. (See Devey, John, J., Jr., and W. A.)
Devey, Joseph F., *et al.* (See Devey, John, J., Jr., and W. A., assignors.)
Devey, Walter A. (See Devey, John, J., Jr., and W. A.)
Deville, Albert, Charleville, France. Manufacture of patterns and molds. No. 965,878; Aug. 2; Sp. p. 62; Gaz. vol. 157; p. 12.
Devin, Anna H., Ottumwa, Iowa. Heel plate and frame. No. 970,313; Sept. 13; Sp. p. 2502; Gaz. vol. 158; p. 422.
Devine, John F., administrator. (See Slough, Edward T.)
Devine, Robert F., Erie, Pa. Mechanically-operated tongs. No. 976,052; Nov. 15; Sp. p. 4296; Gaz. vol. 160; p. 728.
Devine, William P., Boston, Mass., assignor to Orient Manufacturing Company, Portland, Me. Machine for covering eyeglass-cases. No. 963,423; July 5; Sp. p. 925; Gaz. vol. 156; p. 137.

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Deviov, George W., North Spencer, Mass. Automobile sleigh. No. 945,120; Jan. 4; Sp. p. 232; Gaz. vol. 150; p. 40.
Devitt, Henry T., St. Regis, Mont. Track-shifting machine. No. 978,858; Dec. 20; Sp. p. 3083; Gaz. vol. 161; p. 548.
Devlin, Lawrence K. (See St. Germain, Oliver, assignor.)
Devlin, Thomas F. (See Link, Charles F., assignor.)
Devlin, Thomas F., Philadelphia, Pa. Sifter, strainer, and masher. No. 972,515; Oct. 11; Sp. p. 2185; Gaz. vol. 159; p. 377.
Devling, Clyde A. (See Playfoot, Edward J., assignor.)
Devol, David E., Grand Bay, Ala. Attachment for shotguns. No. 966,889; Aug. 9; Sp. p. 2294; Gaz. vol. 157; p. 376.
Devore, George E., Morning Sun, Iowa. Clothes-pin. No. 960,847; June 7; Sp. p. 1227; Gaz. vol. 155; p. 205.
Dewar, Joseph A. (See Sprint, John W., assignor.)
Dewees, Charles, Bakersfield, Cal. Engine-stop. No. 954,381; Apr. 5; Sp. p. 1449; Gaz. vol. 153; p. 241.
Dewees, William H., Chicago, Ill. Cooker. No. 976,156; Nov. 22; Sp. p. 4548; Gaz. vol. 160; p. 786.
Deweese, James E., De Soto, Kans. Bedstead attachment. No. 948,416; Feb. 8; Sp. p. 1341; Gaz. vol. 151; p. 240.
Dewey, Charles F. (See Schmid and Dewey.)
Dewey, Frederic P., Washington, D. C., assignor to Dewey Ore Reduction Corporation. Treating arsenid ores. No. 954,263; Apr. 5; Sp. p. 1199; Gaz. vol. 153; p. 201.
Dewey, Frederic P., Washington, D. C., assignor to Dewey Ore Reduction Corporation. Treating arsenid ores. No. 954,264; Apr. 5; Sp. p. 1201; Gaz. vol. 153; p. 201.
Dewey, Jesse S., East Chicago, Ind., assignor to Green Engineering Co., Chicago, Ill. Conveying device. No. 961,486; June 14; Sp. p. 2575; Gaz. vol. 155; p. 449.
Dewey, John J., Hartford, Vt. Water-level indicator for boilers. No. 945,085; Jan. 4; Sp. p. 166; Gaz. vol. 150; p. 27.
Dewey Ore Reduction Corporation. (See Dewey, Frederic P., assignor.)
Dewing, Fred M., Wollaston, Mass., assignor to Submarine Signal Company, Waterville, Me. Signaling mechanism. No. 945,920; Jan. 11; Sp. p. 2038; Gaz. vol. 150; p. 339.
Dewitt, Carl F., Berlin, Germany. Packing for metal cannulas or the like. No. 964,406; July 12; Sp. p. 2967; Gaz. vol. 156; p. 490.
Dexter Folder Company. (See Dexter, Talbot C., assignor.)
Dexter Folding Company. (See Dexter and Garner, assignors.)
Dexter, Mark, Kenomi, Nebr. Revolving tiltable chair. No. 956,949; May 3; Sp. p. 966; Gaz. vol. 154; p. 154.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-conveying machine. No. 957,043; May 3; Sp. p. 1170; Gaz. vol. 154; p. 186.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 961,585; June 14; Sp. p. 2777; Gaz. vol. 155; p. 482.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 961,586; June 14; Sp. p. 2784; Gaz. vol. 155; p. 482.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-conveying machine. No. 961,587; June 14; Sp. p. 2791; Gaz. vol. 155; p. 483.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 961,744; June 14; Sp. p. 3102; Gaz. vol. 155; p. 536.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 965,693; July 26; Sp. p. 5833; Gaz. vol. 156; p. 992.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 975,123; Nov. 8; Sp. p. 2365; Gaz. vol. 160; p. 385.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-registering mechanism for paper-feeding machines. No. 975,606; Nov. 15; Sp. p. 3397; Gaz. vol. 160; p. 577.
Dexter, Talbot C., and W. M. McCain, Pearl River, N. Y.; said McCain assignor to said Dexter. Driving mechanism for sheet-conveyers. No. 950,374; Feb. 22; Sp. p. 5479; Gaz. vol. 151; p. 960.
Dexter, Talbot C., and J. Garner, assignors to Dexter Folding Company, Pearl River, N. Y. Paper-feeding machine. No. 959,319; May 24; Sp. p. 6268; Gaz. vol. 154; p. 1049.
Dexter, Thomas F., Providence, R. I. Drying-machine. No. 971,176; Sept. 27; Sp. p. 4347; Gaz. vol. 158; p. 762.
Dexter, Thomas F., Providence, R. I. Drying-machine. No. 971,177; Sept. 27; Sp. p. 4349; Gaz. vol. 158; p. 762.
Dey, Alexander. (See Dey, John and A.)
Dey, Harry E., Barnes, N. D. Neck-yoke holder. No. 965,993; Aug. 2; Sp. p. 313; Gaz. vol. 157; p. 52.
Dey, John and A., assignors to Dey Time Register Company, Syracuse, N. Y. Time-recorder. No. 956,309; Apr. 26; Sp. p. 5695; Gaz. vol. 153; p. 992.
Dey Time Register Company. (See Burns, Peter E., assignor.)
Dey Time Register Company. (See Dey, John and A., assignors.)
Dey Time Register Company. (See Merritt, Benjamin F., assignor.)
Deycke, Georg, Constantinople, Turkey, assignor to Kalle and Company Aktiengesellschaft, Biebrich, Germany. Preparation of a fat-like substance from the bodies of bacteria. No. 972,345; Oct. 11; Sp. p. 1797; Gaz. vol. 159; p. 316.
Deyl, Václav O., Vinor, Prague, Austria-Hungary. Grubber-plow. No. 953,686; Apr. 5; Sp. p. 16; Gaz. vol. 153; p. 5.
Deylen, Theodor von, Visselhövede, Germany. Package for matches. No. 969,045; Aug. 30; Sp. p. 6816; Gaz. vol. 157; p. 1187.
Dezavis, Georges, Paris, France. Stenciling apparatus. No. 966,174; Aug. 2; Sp. p. 717; Gaz. vol. 157; p. 113.
Dezendorf, Richard L., Richmond Hill, assignor to American Meter Company, New York, N. Y. Meter-prover. No. 964,956; July 19; Sp. p. 4253; Gaz. vol. 156; p. 711.
Di Marco, Ubaldo, Hawthorne, N. J. Machine for granulating magnesia. No. 961,848; June 21; Sp. p. 3338; Gaz. vol. 155; p. 593.
Diack, Archibald W., Detroit, Mich. Recovering metal. No. 969,253; Sept. 6; Sp. p. 225; Gaz. vol. 158; p. 36.
Diagraph Company. (See Wolf, Paul J., assignor.)
Dial, Homer K., Tifton, Ga. Bed-cover holder. No. 975,335; Nov. 8; Sp. p. 2825; Gaz. vol. 160; p. 457.
Diamant, Henry A., *et al.* (See Rapp, Louis P., assignor.)
Diamond, Alfred F. W., Slocomb, Ala. Oyster-opener. No. 956,049; Apr. 26; Sp. p. 5106; Gaz. vol. 153; p. 901.
Diamond Decorative Leaf Company. (See Fichtmueller, Julius A. C., assignor.)
Diamond Electric Company. (See Parkhurst and Weeks, assignors.)
Diamond Expansion Bolt Company. (See Goewey, James E., assignor.)
Diamond Expansion Bolt Company. (See Mohun, John L., assignor.)
Diamond Expansion Bolt Company. (See Upson and Dole, assignors.)
Diamond, Jay W., Lake Odessa, Mich. Fishing-reel. No. 952,883; Mar. 22; Sp. p. 4956; Gaz. vol. 152; p. 892.
Diamond Match Company, The. (See Clinton, Lucius A., assignor.)
Diamond Match Company, The. (See Denmead, John W., assignor.)
Diamond Match Company, The. (See Wright, Jacob P., assignor.)
Diamond Power Specialty Company. (See Waller and Barnhill, assignors.)
Diamond Steel Truck Company. (See Kenyon, Bertrand P., assignor.)
Diamond, Thomas, Waukesha, Wis., and W. P. Diamond, Cleveland, Ohio. Ice-harvester. No. 972,517; Oct. 11; Sp. p. 2189; Gaz. vol. 159; p. 378.
Diamond, William H. (See Gilbride, Thomas F., assignor.)
Diamond, William P. (See Diamond, Thomas and W. P.)
Dibble, Frank Y., assignor of one-third to G. F. Deckelman and one-third to E. K. Hutchison, Ely, Nev. Triple valve for air-brake mechanism. No. 950,375; Feb. 22; Sp. p. 5481; Gaz. vol. 151; p. 960.
Dibbles, John L., Chicago, Ill. Fishing-signal. No. 962,420; June 28; Sp. p. 4602; Gaz. vol. 155; p. 812.
Dibelka & Breska. (See Peterson, John, assignor.)
Dibrell, Frank A., Coleman, Tex. Combined ruler and paper-cutter. No. 963,001; June 28; Sp. p. 5787; Gaz. vol. 155; p. 1013.
Dice, Wesley J., *et al.* (See Miles, Edmund, assignor.)
Dichmann, William, Oshkosh, Wis. Sliding-shoe furniture attachment. No. 959,478; May 31; Sp. p. 6609; Gaz. vol. 154; p. 1127.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 945,264; Jan. 4; Sp. p. 538; Gaz. vol. 150; p. 88.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 945,265; Jan. 4; Sp. p. 541; Gaz. vol. 150; p. 89.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 945,266; Jan. 4; Sp. p. 543; Gaz. vol. 150; p. 89.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 945,267; Jan. 4; Sp. p. 546; Gaz. vol. 150; p. 90.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Printing-machine. No. 945,760; Jan. 11; Sp. p. 1674; Gaz. vol. 150; p. 281.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Printing-machine. No. 945,761; Jan. 11; Sp. p. 1677; Gaz. vol. 150; p. 281.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Sheet-feeding apparatus. No. 960,514; June 7; Sp. p. 552; Gaz. vol. 155; p. 91.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Sheet-feeding apparatus. No. 977,283; Nov. 29; Sp. p. 7062; Gaz. vol. 160; p. 1201.
Dick, Frederick J., assignor to K. Tingley, Point Loma, Cal. Altitude time-dial. No. 976,347; Nov. 22; Sp. p. 5022; Gaz. vol. 160; p. 852.
Dick, Frederick J., assignor to K. Tingley, Point Loma, Cal. Sun-dial gnomon. No. 978,859; Dec. 20; Sp. p. 3090; Gaz. vol. 161; p. 548.
Dick, John M. (See Golter, John R., assignor.)

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Dick, Joseph, Canton, Ohio. Fodder-cutter. No. 974,776; Nov. 8; Sp. p. 1583; Gaz. vol. 160; p. 266.
Dickens, Prieston, Fancy Gap, Va. Wagon-brake. No. 948,090; Feb. 1; Sp. p. 651; Gaz. vol. 151; p. 105.
Dickerson, Charles L., Clinton, Ill. Water-gage. No. 977,375; Nov. 29; Sp. p. 7267; Gaz. vol. 160; p. 1233.
Dickerson, Fred G., Chicago, Ill. Protector for can-vents. No. 965,799; July 26; Sp. p. 6059; Gaz. vol. 156; p. 1027.
Dickerson, Leonard R., assignor to R. B. Wilson, Chicago, Ill. Pressed-steel ledger-binder. No. 952,668; Mar. 22; Sp. p. 4502; Gaz. vol. 152; p. 819.
Dickerson, Leonard R., assignor to R. B. Wilson, Chicago, Ill. Lock for loose-leaf binders. No. 964,765; July 19; Sp. p. 3882; Gaz. vol. 156; p. 644.
Dickey, Elmer C., Kokomo, Ind. Can-vent-soldering machine. No. 957,147; May 3; Sp. p. 1368; Gaz. vol. 154; p. 219.
Dickey, John B., assignor of one-eighth to W. W. Denison and one-eighth to W. B. Denison, Columbus, Ind. Starting device for internal-combustion engines. No. 958,909; May 24; Sp. p. 5454; Gaz. vol. 154; p. 913.
Dickey, Jonathan A., Columbus, Ind. Clutch. No. 960,515; June 7; Sp. p. 556; Gaz. vol. 155; p. 92.
Dickey Joseph H., and W. Roach, Fort Worth, Tex. Automatically-operated forge. No. 963,877; July 12; Sp. p. 1905; Gaz. vol. 156; p. 313.
Dickey, Lester O., Omaha, Nebr., assignor, by mesne assignments, to The Scott Signal Company, Marion, Iowa. Automatic block-signal system for railways. No. 950,376; Feb. 22; Sp. p. 5488; Gaz. vol. 151; p. 961.
Dickey, William T., East Radford, Va. Filing-cabinet. No. 967,619; Aug. 16; Sp. p. 3799; Gaz. vol. 157; p. 652.
Dickey, William T. S., Mineral Bluff, Ga. Locking-bolt. No. 972,067; Oct. 4; Sp. p. 1208; Gaz. vol. 159; p. 204.
Dickhaus, Otto. (See Holzhey and Dickhaus.)
Dickhaut, Henry, *et al.* (See Seitz, Frederick, assignor.)
Dickhaut, Valentine, *et al.* (See Seitz, Frederick, assignor.)
Dickie, Charles, Kimberley, Cape Colony. Rotary pump for generating pressure. No. 977,439; Dec. 6; Sp. p. 22; Gaz. vol. 161; p. 7.
Dickie, Charlotte, Blairsville, Pa. Folding box and crate. No. 965,089; July 19; Sp. p. 4528; Gaz. vol. 156; p. 754.
Dickinson, Charles, Maricopa, Cal. Pump-valve. No. 956,050; Apr. 26; Sp. p. 5108; Gaz. vol. 153; p. 901.
Dickinson, Claire, executrix. (See Dickinson, Paul.)
Dickinson, Clinton W., assignor of one-half to A. Hirshheimer, La Crosse, Wis. Plow. No. 964,766; July 19; Sp. p. 3883; Gaz. vol. 156; p. 645.
Dickinson, Clinton W., assignor of one-half to A. Hirshheimer, La Crosse, Wis. Grain-drill. No. 964,767; July 19; Sp. p. 3885; Gaz. vol. 156; p. 645.
Dickinson, Clinton W., assignor of one-half to A. Hirshheimer, La Crosse, Wis. Disk drill. No. 964,768; July 19; Sp. p. 3887; Gaz. vol. 156; p. 645.
Dickinson, Fairleigh S., Rutherford, N. J. Pump. No. 963,528; July 5; Sp. p. 1138; Gaz. vol. 156; p. 173.
Dickinson, Fairleigh S., Rutherford, N. J. Thermometer. No. 978,141; Dec. 13; Sp. p. 1578; Gaz. vol. 161; p. 280.
Dickinson, Joseph H. (See Miller and Dickinson.)
Dickinson, Joseph H., Montclair, N. J., and W. A. Gilchrist, Memphis, Tenn., assignors to Lidgerwood Manufacturing Company. Logging system. No. 972,831; Oct. 18; Sp. p. 2865; Gaz. vol. 159; p. 511.
Dickinson, Minnie M., Evanston, Ill. Device for cooking asparagus. No. 966,386; Aug. 2; Sp. p. 1121; Gaz. vol. 157; p. 181.
Dickinson, Minnie M., Evanston, Ill. Ice-cream freezer. No. 967,003; Aug. 9; Sp. p. 2523; Gaz. vol. 157; p. 415.
Dickinson, Paul, deceased; C. Dickinson, Winnetka, Ill., executrix. Smoke-stack. No. 945,709; Jan. 4; Sp. p. 1500; Gaz. vol. 150; p. 235.
Dickinson, Samuel L., New York, N. Y. Player-piano. No. 972,346; Oct. 11; Sp. p. 1798; Gaz. vol. 159; p. 316.
Dickinson, Walter C., Beaver Dam, Wis. Shaving-brush and holder. No. 952,884; Mar. 22; Sp. p. 4957; Gaz. vol. 152; p. 892.
Dickinson, William N., Jr., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Antiphase reversing device. No. 949,465; Feb. 15; Sp. p. 3537; Gaz. vol. 151; p. 617.
Dickinson, William N., Jr., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety release-magnet for brake apparatus. No. 950,223; Feb. 22; Sp. p. 5190; Gaz. vol. 151; p. 911.
Dickinson, William N., Jr., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Protective apparatus for alternating-current elevators. No. 950,224; Feb. 22; Sp. p. 5194; Gaz. vol. 151; p. 911.
Dicks, William. (See Hall and Dicks.)
Dickson, George F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Candy-machine. No. 948,969; Feb. 8; Sp. p. 2494; Gaz. vol. 151; p. 424.
Dickson, George F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Freezer. No. 952,030; Mar. 15; Sp. p. 3192; Gaz. vol. 152; p. 574.
Dickson, George F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Ice-cream freezer. No. 952,031; Mar. 15; Sp. p. 3194; Gaz. vol. 152; p. 574.
Dickson, George F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Candy-cooler. No. 955,771; Apr. 19; Sp. p. 4489; Gaz. vol. 153; p. 775.
Dickson, George F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Cutting-machine. No. 980,145; Dec. 27; Sp. p. 5921; Gaz. vol. 161; p. 1011.
Dickson, James H., Philadelphia, Pa. Sulky. No. 960,848; June 7; Sp. p. 1227; Gaz. vol. 155; p. 205.
Dickson, James H., Philadelphia, Pa. Trotting-sulky. No. 965,133; July 19; Sp. p. 4607; Gaz. vol. 156; p. 768.
Dickson, Myron, Martinsville, Ind. Try-square. No. 971,529; Oct. 4; Sp. p. 37; Gaz. vol. 159; p. 9.
Dickson, Stewart, Upper Montclair, N. J. Packing for acetylene-gas tanks. No. 962,199; June 21; Sp. p. 4117; Gaz. vol. 155; p. 714.
Didierjean, Nicolas A., St. Quentin, France. Multiple-speed driving-gearing. No. 954,672; Apr. 12; Sp. p. 2101; Gaz. vol. 153; p. 368.
Diebold Safe & Lock Company, The. (See Klohs, Bartholomew F., assignor.)
Dieckmann, Adolf, Cincinnati, Ohio. Sheet-metal-elbow machine. No. 959,204; May 24; Sp. p. 6047; Gaz. vol. 154; p. 1011.
Dieckmann, Emil, Barmen-Unterbarmen, Germany. Ceiling. No. 979,658; Dec. 27; Sp. p. 4840; Gaz. vol. 161; p. 849.
Dieckmann, Gustav, San Francisco, Cal. Broom. No. 971,362; Sept. 27; Sp. p. 4710; Gaz. vol. 158; p. 823.
Diederichs, Carl. (See Ammentorp, Anders, assignor.)
Diefenbach, John C. (See Bean, Charles L., assignor.)
Dieffenbach, Otto, and W. Moldenhauer, Darmstadt, Germany. Producing hydrocyanic acid. No. 954,080; Apr. 5; Sp. p. 798; Gaz. vol. 153; p. 139.
Diehl, Charles, Cleveland, Ohio. Irrigating-gutter. No. 958,479; May 17; Sp. p. 4526; Gaz. vol. 154; p. 741.
Diehl, Fred G., Selden, Kans. Lock. No. 973,920; Oct. 25; Sp. p. 5259; Gaz. vol. 159; p. 912.
Diehl, George H., Jr., New York, N. Y. Skiving-machine. No. 949,062; Feb. 15; Sp. p. 2704; Gaz. vol. 151; p. 481.
Diehl, Jacob, assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Take-up for sewing-machines. No. 946,019; Jan. 11; Sp. p. 2245; Gaz. vol. 150; p. 373.
Diehl, John J., Chicago, Ill. Perforating attachment for loose-leaf binders. No. 962,421; June 28; Sp. p. 4603; Gaz. vol. 155; p. 813.
Diehl Manufacturing Company. (See Zabriskie, Henry L., assignor.)
Dieleman, William W., Prairie View, Kans. Harness-support. No. 945,762; Jan. 11; Sp. p. 1681; Gaz. vol. 150; p. 282.
Diemer, William, assignor to Gendron Wheel Company, Toledo, Ohio. Couch. No. 967,890; Aug. 23; Sp. p. 4339; Gaz. vol. 157; p. 766.
Dier, Horace C., *et al.* (See MacDiarmid, Wesley D. R., assignor.)
Diescher, Alfred J., Pittsburg, Pa. Registering mechanism. No. 974,756; Nov. 1; Sp. p. 1536; Gaz. vol. 160; p. 236.
Diesel, William F., assignor to Sargent & Greenleaf Company, Rochester, N. Y. Lock. No. 954,720; Apr. 12; Sp. p. 2206; Gaz. vol. 153; p. 384.
Diesser, Gottlieb G. (See Baumann and Diesser.)
Diesser, Gottlieb G., Zurich-Wollishofen, Switzerland. Substances to be used as varnish and for impregnation and insulation and their production. No. 967,737; Aug. 16; Sp. p. 4042; Gaz. vol. 157; p. 692.
Dietcher, Henry L., Los Angeles, Cal. Lawn-sprinkler. No. 974,954; Nov. 8; Sp. p. 1994; Gaz. vol. 160; p. 328.
Dieterla, Edward. (See Weihman, Henry, assignor.)
Dietly, Philip W., *et al.* (See Maxson, Charles B., assignor.)
Dietmann, Paul W., and V. Violon, Ninove, Belgium, assignors to Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff, Durlach, Germany. Match-box-filling-adjusting apparatus. No. 968,137; Aug. 23; Sp. p. 4892; Gaz. vol. 157; p. 849.
Dietrich, Lewis, Imlay City, Mich. Whip-lock. No. 977,855; Dec. 6; Sp. p. 946; Gaz. vol. 161; p. 149.
Dietz, Alice. (See Dietz, William H., assignor.)
Dietz, August P., Paterson, N. J. Warp-drawing machine. No. 945,022; Jan. 4; Sp. p. 22; Gaz. vol. 150; p. 7.
Dietz, George H., *et al.* (See Wells, Eugene C., assignor.)
Dietz, Gustav. (See Raabe, Walter, assignor.)
Dietz, Herman F., Liverpool, assignor of one-half to A. Will, Syracuse, N. Y. Emergency-brake for vehicles. No. 963,361; July 5; Sp. p. 795; Gaz. vol. 156; p. 117.
Dietz, William, Cement, Tex. Hydrocarbon-burner. No. 978,860; Dec. 20; Sp. p. 3092; Gaz. vol. 161; p. 548.
Dietz, William, assignor to McCord Manufacturing Company, Detroit, Mich. Automobile-radiator. No. 974,777; Nov. 8; Sp. p. 1587; Gaz. vol. 160; p. 267.
Dietz, William H., Chicago, Ill., assignor to A. Dietz. Communion-service holder. No. 967,343; Aug. 16; Sp. p. 3228; Gaz. vol. 157; p. 559.
Dietzer-Sale Lithograph Company. (See Reeves, Percy, assignor.)
Diez, George F., New York, N. Y. Composition for softening steel. No. 949,980; Feb. 22; Sp. p. 4677; Gaz. vol. 151; p. 827.

Diez, George F., New York, N. Y. Composition for converting iron into steel. No. 950,095; Feb. 22; Sp. p. 4925; Gaz. vol. 151; p. 866.
Diflo, Harry, assignor to The Eclipse Metallic Specialty Company, Philadelphia, Pa. Razor-blade holder. No. 966,387; Aug. 2; Sp. p. 1122; Gaz. vol. 157; p. 181.
Digby, Thomas J., London, England. Electric-arc lamp. No. 967,738; Aug. 16; Sp. p. 4046; Gaz. vol. 157; p. 692.
Dike, Albyn P. (See Cazier and Dike.)
Dikeman, Myron J., Joliet, Ill. Surveying instrument. No. 958,794; May 24; Sp. p. 5180; Gaz. vol. 154; p. 872.
Dikes, Johnnie C., Brownwood, Tex. Combination-tool. No. 963,124; July 5; Sp. p. 254; Gaz. vol. 156; p. 34.
Dikkers, Gerhard J. O. D., Lonneker, near Hengelo, Netherlands. Pump, injector, or the like. No. 974,366; Nov. 1; Sp. p. 657; Gaz. vol. 160; p. 98.
Dilg, Charles H. J., and J. O. Fowler, New York, N. Y. Cake of soap. No. 945,495; Jan. 4; Sp. p. 1062; Gaz. vol. 150; p. 164.
Dilg, Joseph E., assignor to Dougherty Bros. Tent & Awning Company, St. Louis, Mo. Device for attaching stay-ropes to tent-poles. No. 960,849; June 7; Sp. p. 1228; Gaz. vol. 155; p. 205.
Dilks, Harold. (See Huver and Dilks.)
Dill, Frederick W., assignor to A. W. Elgin, trustee, Lincoln, Kans. Corn-harvester. No. 946,936; Jan. 18; Sp. p. 4331; Gaz. vol. 150; p. 712.
Dill, Harry. (See Myers and Dill.)
Dill, Harry E., administrator. (See Grimes, Charles D.)
Dill, John M., Artesia, N. Mex. Tanning compound. No. 972,518; Oct. 11; Sp. p. 2192; Gaz. vol. 159; p. 378.
Dill, Thomas C., Philadelphia, Pa. Power-transmission mechanism. No. 970,995; Sept. 20; Sp. p. 3944; Gaz. vol. 158; p. 674.
Dillabaugh, Eli, Hoople, N. D. Whip-rack. No. 966,315; Aug. 2; Sp. p. 984; Gaz. vol. 157; p. 158.
Dillander, John, Temple, Tex. Engine-valve. No. 966,810; Aug. 9; Sp. p. 2126; Gaz. vol. 157; p. 351.
Dillander, John, Temple, Tex. Air-brake system. No. 977,856; Dec. 6; Sp. p. 947; Gaz. vol. 161; p. 150.
Dillard, Thomas, Richmond, Va. Addressing-stamp. No. 977,173; Nov. 29; Sp. p. 6852; Gaz. vol. 160; p. 1163.
Dillard, Walter E., Petersburg, Va. Saw-handle. No. 951,104; Mar. 8; Sp. p. 1304; Gaz. vol. 152; p. 239.
Dille, John I. (See Tonge, John, assignor.)
Dillenback, Daniel S., Hastings, Nebr. Coupling for neck-yokes and vehicle-tongues. No. 970,996; Sept. 20; Sp. p. 3947; Gaz. vol. 158; p. 674.
Dilley, Thomas E., Los Angeles, Cal. Combined ventilator and fly-escape. No. 974,863; Nov. 8; Sp. p. 1772; Gaz. vol. 160; p. 295.
Dilli, Charles, assignor of one-half to T. F. Keliher, Washington, D. C. Umbrella-tip retainer. No. 955,255; Apr. 19; Sp. p. 3372; Gaz. vol. 153; p. 601.
Dillig, George F., Baltimore, Md. Sparking igniter. No. 967,344; Aug. 16; Sp. p. 3230; Gaz. vol. 157; p. 560.
Dillig, George F., Baltimore, Md. Center support or mold for forming tunnels or sewers. No. 974,778; Nov. 8; Sp. p. 1588; Gaz. vol. 160; p. 267.
Dillingham, Frederick A., assignor to The Troy Carriage Sun Shade Company, Troy, Ohio. Ball-and-socket joint. No. 973,635; Oct. 25; Sp. p. 4674; Gaz. vol. 159; p. 812.
Dillon, E. S., *et al.* (See Dillon, Friend E., assignor.)
Dillon, Friend E., Martins Ferry, Ohio, assignor of one-fourth to C. H. Copp and one-fourth to E. S. Dillon, Wheeling, W. Va. Gas feeding and mixing device. No. 953,820; Apr. 5; Sp. p. 281; Gaz. vol. 153; p. 49.
Dillon Plow & Novelty Works. (See Blizzard, William A., assignor.)
Dillon, Sydney, Edgewood, Pa. Metal-transfer apparatus. No. 965,282; July 26; Sp. p. 4917; Gaz. vol. 156; p. 848.
Dilts, Frank B., *et al.* (See Byl, George N., assignor.)
Dilts, Henry I., *et al.* (See Byl, George N., assignor.)
Dilts, Henry I., assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 966,316; Aug. 2; Sp. p. 987; Gaz. vol. 157; p. 158.
Dilts, Henry I., assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 966,317; Aug. 2; Sp. p. 988; Gaz. vol. 157; p. 159.
Dilts, Henry I., assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 966,318; Aug. 2; Sp. p. 989; Gaz. vol. 157; p. 159.
Dilts, Henry I., assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 966,319; Aug. 2; Sp. p. 991; Gaz. vol. 157; p. 159.
Dilts, Henry I., assignor to Neptune Meter Company, Long Island City, N. Y. Water-meter. No. 966,388; Aug. 2; Sp. p. 1123; Gaz. vol. 157; p. 181.
Dimelow, Thomas E., assignor of one-half to J. W. McKinnon, York, Pa. Fastening means for artificial teeth. No. 947,378; Jan. 25; Sp. p. 5286; Gaz. vol. 150; p. 888.
Dimler, Ernest H., assignor of one-half to Bethlehem Foundry & Machine Company, South Bethlehem, Pa. Shaft-securing device. No. 966,666; Aug. 9; Sp. p. 1773; Gaz. vol. 157; p. 303.
Dimm, Chandos R. (See Petrikin and Dimm.)
Dimmick, Jacob K., Philadelphia, Pa. Mold for castings. No. 966,811; Aug. 9; Sp. p. 2131; Gaz. vol. 157; p. 352.
Dimmick, Jacob K., Philadelphia, Pa. Ramming-machine. No. 979,832; Dec. 27; Sp. p. 5241; Gaz. vol. 161; p. 907.
Dimock, Ira. (See Allen, William G., assignor.)
Dimon, Thomas V., Norwalk, Ohio. Mold-handling apparatus. No. 952,789; Mar. 22; Sp. p. 4771; Gaz. vol. 152; p. 860.
Dingendahl, Gustav, assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 979,446; Dec. 27; Sp. p. 4379; Gaz. vol. 161; p. 775.
Dinger, Christian, Sparta, Wis. Cigar-lighter. No. 955,058; Apr. 12; Sp. p. 2956; Gaz. vol. 153; p. 501.
Dinger, Paul, assignor of one-half to W. L. Rose and one-half to A. L. Lawrence, Cleveland, Ohio. Telegraphic transmitter. (Reissue.) No. 13,130; July 12; Sp. p. 3116; Gaz. vol. 156; p. 513.
Dinghaus, Frederick, Puerto Barrios, Guatemala. Water-purifier. No. 963,529; July 5; Sp. p. 1142; Gaz. vol. 156; p. 173.
Dingman, Charles H., Marion, Mich., assignor to Walsh Manufacturing Company, Pittsburg, Pa. Dry-kiln. No. 978,991; Dec. 20; Sp. p. 3396; Gaz. vol. 161; p. 597.
Dingman, George, Penn, N. D. Screen. No. 958,859; May 24; Sp. p. 5329; Gaz. vol. 154; p. 896.
Dingsley, Hiram M., Hastings, Nebr. Hame-clip. No. 968,838; Aug. 30; Sp. p. 6404; Gaz. vol. 157; p. 1117.
Dinkel, Andrew J., Clarinda, Iowa. Drum with loading and discharging apparatus. No. 967,345; Aug. 16; Sp. p. 3231; Gaz. vol. 157; p. 560.
Dinkel, George, Jersey City, N. J. Automatic fuel-feed mechanism for furnaces. No. 970,191; Sept. 13; Sp. p. 2235; Gaz. vol. 158; p. 380.
Dinkel, George, Jersey City, N. J. Automatic fuel-feed mechanism for furnaces. No. 970,432; Sept. 13; Sp. p. 2724; Gaz. vol. 158; p. 460.
Dinkey, Alva C., Pittsburg, Pa. Metallic tie. No. 966,175; Aug. 2; Sp. p. 719; Gaz. vol. 157; p. 113.
Dinsmoor, James D., St. Marys, W. Va. Method and apparatus for pumping oil-wells. No. 962,009; June 21; Sp. p. 3678; Gaz. vol. 155; p. 646.
Dinsmoor, Winfield L., Longbeach, Cal. Ullage-rod. No. 946,695; Jan. 18; Sp. p. 3759; Gaz. vol. 150; p. 629.
Dinsmoor, Winfield L., Longbeach, Cal. Vulcanizing-iron. No. 954,425; Apr. 12; Sp. p. 1539; Gaz. vol. 153; p. 283.
Dinsmoor, Winfield L., Longbeach, Cal., assignor to Economy Tool Company, Los Angeles, Cal. Attachment for repair-tools. No. 954,424; Apr. 12; Sp. p. 1537; Gaz. vol. 153; p. 283.
Dinsmore, Frank A., Fredonia, N. Y. Centrifugal clothes-drier. No. 970,022; Sept. 13; Sp. p. 1906; Gaz. vol. 158; p. 324.
Dinsmore, Frank A., assignor to M. E. Dinsmore, Fredonia, N. Y. Centrifugal clothes-drier. No. 945,921; Jan. 11; Sp. p. 2042; Gaz. vol. 150; p. 340.
Dinsmore, Mary E. (See Dinsmore, Frank A., assignor.)
Dinwiddie, Joshua E., Farmington, Kans. Churn. No. 977,077; Nov. 29; Sp. p. 6631; Gaz. vol. 160; p. 1130.
Dion, Albert de, and G. Bouton, Puteaux, France. Automatic valve. No. 967,739; Aug. 16; Sp. p. 4047; Gaz. vol. 157; p. 694.
Dion, Léon, Wilkes-Barre, Pa. Plural drive mechanism for marine propulsion. No. 976,642; Nov. 22; Sp. p. 5649; Gaz. vol. 160; p. 955.
Diplock, Arthur B., North Vancouver, British Columbia, Canada. Sawmill-refuse burner. No. 969,158; Sept. 6; Sp. p. 14; Gaz. vol. 158; p. 5.
Diplock, Bramah J., Westminster, England. Means for supporting vehicles. No. 979,447; Dec. 27; Sp. p. 4380; Gaz. vol. 161; p. 775.
Dippel, Henry C. (See Fleury, Louis A., Jr., assignor.)
Dipworth, Hermann B., Saginaw, Mich. Miter-clamp vise. No. 960,159; May 31; Sp. p. 8077; Gaz. vol. 154; p. 1358.
Diracca, Joseph, Joliet, Ill. Compasses. No. 962,702; June 28; Sp. p. 5215; Gaz. vol. 155; p. 910.
Direct-Line General Telephone Company. (See Andriano, Albert K., assignor.)
Direct Separator Company, The. (See Thomas, William H., assignor.)
Dirkes, Henry A., New York, N. Y. Window-ventilator. No. 967,346; Aug. 16; Sp. p. 3235; Gaz. vol. 157; p. 560.
Dirkes, Henry A., New York, N. Y. Ventilator. No. 979,134; Dec. 20; Sp. p. 3744; Gaz. vol. 161; p. 648.
Dirks, D. F., *et al.* (See Allen, James M., assignor.)
Dirner, Alex. J. (See Schmelczer, Niedermayer, and Dirner.)
Disbrow, Levi A., Owatonna, Minn. Combined churn and butter-worker. No. 953,738; Apr. 5; Sp. p. 113; Gaz. vol. 153; p. 122.
Disbrow, Levi A., Owatonna, Minn. Combined churn and butter-worker. No. 971,178; Sept. 27; Sp. p. 4351; Gaz. vol. 158; p. 763.
Disbrow, Reuben B., Owatonna, Minn. Combined faucet and strainer. No. 945,763; Jan. 11; Sp. p. 1683; Gaz. vol. 150; p. 282.
Disbrow, Reuben B., Owatonna, Minn. Combined churn and butter-worker. No. 949,757; Feb. 22; Sp. p. 4134; Gaz. vol. 151; p. 748.
Disbrow, Reuben B., Owatonna, Minn. Combined churn and butter-worker. No. 956,310; Apr. 26; Sp. p. 5700; Gaz. vol. 153; p. 992.
Disbrow, Reuben B., Owatonna, Minn. Combined churn and butter-worker. No. 961,940; June 21; Sp. p. 3537; Gaz. vol. 155; p. 624.

Alphabetical list of patentees—Continued.

Disbrow, Reuben B., Owatonna, Minn. Butter-spade. No. 969,528; Sept. 6; Sp. p. 807; Gaz. vol. 158; p. 126.
Disc Boot Polish Company, The. (See Ellis, Frederick A., assignor.)
Dischinger, Joseph A. (See Perew and Dischinger.)
Diserens, Thomas H., Dallas, Tex. Baling-press. No. 979,659; Dec. 27; Sp. p. 4841; Gaz. vol. 161; p. 849.
Diskin, Moses B., New York, N. Y. Tape-applying machine. No. 948,575; Feb. 8; Sp. p. 1677; Gaz. vol. 151; p. 292.
Dismuke, William H., and T. C. Stewart, Phoenix, Ala. Lug-strap for looms. No. 966,667; Aug. 9; Sp. p. 1775; Gaz. vol. 157; p. 303.
Diss, Albert B., Newark, N. J., assignor to Universal Caster & Foundry Company, New York, N. Y. Furniture-tip. No. 964,092; July 12; Sp. p. 2353; Gaz. vol. 156; p. 386.
Diss, Albert B., Newark, N. J., assignor to Universal Caster & Foundry Company, New York, N. Y. Caster for tubular legs for furniture. No. 965,879; Aug. 2; Sp. p. 64; Gaz. vol. 157; p. 13.
Dissel, Theodore A., Boston, Mass. Cable-support. No. 950,148; Feb. 22; Sp. p. 5024; Gaz. vol. 151; p. 884.
Dissosway, Crowell M., New York, N. Y. Distributing system. No. 964,001; July 12; Sp. p. 2163; Gaz. vol. 156; p. 353.
Distributors Co., The. (See Vaughan, Ross, assignor.)
Dithridge, Edward, Morrisville, Pa., assignor to The J. L. Mott Iron Works. Pneumatic sieve. No. 949,625; Feb. 15; Sp. p. 3848; Gaz. vol. 151; p. 671.
Dittbenner, Hermann G., Minneapolis, Minn. Sawmill-hog. No. 945,496; Jan. 4; Sp. p. 1064; Gaz. vol. 150; p. 164.
Dittman, Joseph H. (See Getty, John C., assignor.)
Dittmann, Christian F. H., assignor to Dittmann & Wagner, Hamburg, Germany. Device for tightening damaged tubes of boilers. No. 956,311; Apr. 26; Sp. p. 5701; Gaz. vol. 153; p. 992.
Dittmann & Wagner. (See Dittmann, Christian F. H., assignor.)
Dittmar, Augusta L. (See Dittmar, Julius S., assignor.)
Dittmar, Charles, Baltimore, Md. Trunk-fastener. No. 955,856; Apr. 26; Sp. p. 4690; Gaz. vol. 153; p. 834.
Dittmar, Julius S., assignor of seven-twelfths to A. L. Dittmar, Sioux City, Iowa. Printing-form for printing advertisements. No. 954,721; Apr. 12; Sp. p. 2208; Gaz. vol. 153; p. 385.
Dittmar, Louis J., Louisville, Ky. Change-making device. No. 964,149; July 12; Sp. p. 2466; Gaz. vol. 156; p. 404.
Dittrich, Joseph, New York, N. Y. Piston-packing. No. 971,978; Oct. 4; Sp. p. 1041; Gaz. vol. 159; p. 174.
Dittrich, Joseph, and F. Devecis, New York, N. Y. Caliper-gage. No. 976,559; Nov. 22; Sp. p. 5485; Gaz. vol. 160; p. 927.
Dittrich, William, Lytton Springs, Tex. Cotton-chopper. No. 952,310; Mar. 15; Sp. p. 3730; Gaz. vol. 152; p. 668.
Ditzler, John. (See Fischer and Ditzler.)
Divekey, John J., Aurora, Ill. Safety compression bib-relief. No. 970,192; Sept. 13; Sp. p. 2238; Gaz. vol. 158; p. 381.
Divekey, John J., Aurora, Ill. Pump-base. No. 975,752; Nov. 15; Sp. p. 3712; Gaz. vol. 160; p. 626.
Diven, Samuel L. (See Forrey, George J., assignor.)
Diver, Daniel, Deerfield, Mich. Apparatus for drying wet materials. No. 948,477; Feb. 8; Sp. p. 1467; Gaz. vol. 151; p. 260.
Diver, Ebenezer, Bournemouth, England. Elastic stocking, legging, and similar article. No. 963,878; July 12; Sp. p. 1907; Gaz. vol. 156; p. 314.
Divin, Frank, West, Tex. Cultivator. No. 965,376; July 26; Sp. p. 5131; Gaz. vol. 156; p. 880.
Divine, Charles A., Franklin, N. C. Combined log-scale, tree-calipers, and staff. No. 973,636; Oct. 25; Sp. p. 4676; Gaz. vol. 159; p. 813.
Divok, Alexander F., Pittsburg, Pa. Folding steps. No. 960,003; May 31; Sp. p. 7759; Gaz. vol. 154; p. 1307.
Dix, Charles B., New York, N. Y. Window attachment. No. 979,267; Dec. 20; Sp. p. 4031; Gaz. vol. 161; p. 693.
Dix, Joseph J., and L. W. Van Cleave, St. Louis, Mo. Vise. No. 947,888; Feb. 1; Sp. p. 238; Gaz. vol. 151; p. 39.
Dixon, Albert S., Austin, Tex. Cotton-packer. No. 960,850; June 7; Sp. p. 1230; Gaz. vol. 155; p. 205.
Dixon, Charles C., *et al.* (See Salladay, John W., assignor.)
Dixon, George A., San Francisco, Cal. Siphon-filler. No. 973,264; Oct. 18; Sp. p. 3871; Gaz. vol. 159; p. 662.
Dixon, Greenleaf. (See Dixon, Luther and G.)
Dixon, John, West Baden, Ind. Jack. No. 959,320; May 24; Sp. p. 6273; Gaz. vol. 154; p. 1050.
Dixon, Joseph W., Dallas, Tex. Disinfectant telephone-mouthpiece. No. 946,839; Jan. 18; Sp. p. 4104; Gaz. vol. 150; p. 679.
Dixon, Laurens P., assignor to Anderson & Prigge, New York, N. Y. Binder-frame. No. 968,138; Aug. 23; Sp. p. 4895; Gaz. vol. 157; p. 850.
Dixon, Luther and G., Comanche, Tex. Rail-joint. No. 974,038; Oct. 25; Sp. p. 5506; Gaz. vol. 159; p. 954.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Coupling for train-pipes. No. 948,312; Feb. 8; Sp. p. 1111; Gaz. vol. 151; p. 204.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Screen. No. 948,313; Feb. 8; Sp. p. 1113; Gaz. vol. 151; p. 204.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Gas-lamp. No. 956,572; May 3; Sp. p. 142; Gaz. vol. 154; p. 25.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Gas-lighting apparatus. No. 958,375; May 17; Sp. p. 4319; Gaz. vol. 154; p. 705.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Attachment for incandescent-lamp mantles. No. 960,851; June 7; Sp. p. 1231; Gaz. vol. 155; p. 206.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Heating system. No. 965,283; July 26; Sp. p. 4919; Gaz. vol. 156; p. 848.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Globe for lamps. No. 965,880; Aug. 2; Sp. p. 65; Gaz. vol. 157; p. 13.
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Fastening means. No. 966,176; Aug. 2; Sp. p. 720; Gaz. vol. 157; p. 113.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Heater for refrigerator-cars. No. 968,331; Aug. 23; Sp. p. 5328; Gaz. vol. 157; p. 917.
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Emergency shut-off for gas-holders. No. 978,861; Dec. 20; Sp. p. 3094; Gaz. vol. 161; p. 549.
Dixon, Varien D., Fort St. Michael, Alaska. Puzzle or toy. No. 974,478; Nov. 1; Sp. p. 925; Gaz. vol. 160; p. 138.
Dixon, Walter L., Milford, assignor to Reece Folding Machine Company, Boston, Mass. Machine for folding blanks for cuffs and the like. No. 956,950; May 3; Sp. p. 967; Gaz. vol. 154; p. 155.
Dixon, Wildey R., assignor of one-half to J. Rose, Roanoke, Va. Paper-feed attachment for type-writers. No. 946,724; Jan. 18; Sp. p. 3818; Gaz. vol. 150; p. 638.
Dixon, Wildey R., assignor of one-half to J. Rose, Roanoke, Va. Paper-feed attachment for type-writers. No. 974,556; Nov. 1; Sp. p. 1108; Gaz. vol. 160; p. 167.
Dixon, William, Newark, N. J. Jeweler's polishing-brush. No. 960,216; May 31; Sp. p. 8194; Gaz. vol. 154; p. 1379.
Dixon, William B., Philadelphia, Pa. Harness for cross-weaving. No. 966,668; Aug. 9; Sp. p. 1776; Gaz. vol. 157; p. 303.
Dixon, William E., Chicago, Ill. Automatic valve. No. 953,260; Mar. 29; Sp. p. 5771; Gaz. vol. 152; p. 1045.
Dlouhý, Boleslav, New York, N. Y. Smokeless muffler. No. 965,090; July 19; Sp. p. 4530; Gaz. vol. 156; p. 755.
Doak, Frederick M., San Francisco, Cal. End joint for corrugated-pipe sections. No. 946,207; Jan. 11; Sp. p. 2630; Gaz. vol. 150; p. 437.
Doak, Lester, McMinnville, Tenn. Rail-joint. No. 978,711; Dec. 13; Sp. p. 2805; Gaz. vol. 161; p. 477.
Doan, Arthur, Oakland, Cal. Direct air-brake system. No. 951,987; Mar. 15; Sp. p. 3106; Gaz. vol. 152; p. 560.
Doan, Arthur, Elmhurst, Cal. Air-brake system. No. 969,046; Aug. 30; Sp. p. 6818; Gaz. vol. 157; p. 1188.
Doan, Arthur, Elmhurst, Cal. Air-brake system. No. 973,179; Oct. 18; Sp. p. 3697; Gaz. vol. 159; p. 633.
Doan, Charles O., Chicago, Ill. Wind-shield for vehicles. No. 977,174; Nov. 29; Sp. p. 6853; Gaz. vol. 160; p. 1164.
Doane, John C., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Ratchet mechanism for ribbons of type-writing machines. No. 962,133; June 21; Sp. p. 3977; Gaz. vol. 155; p. 691.
Doane, Stephen A. D., Riverside, N. Mex. Draft appliance for fireplaces. No. 948,007; Feb. 1; Sp. p. 470; Gaz. vol. 151; p. 76.
Doane, Walter S., Worcester, Mass. Inhaler. No. 957,548; May 10; Sp. p. 2245; Gaz. vol. 154; p. 388.
Doarnberger, John A., Roanoke, Va. Steam-boiler. No. 979,135; Dec. 20; Sp. p. 3746; Gaz. vol. 161; p. 649.
Dobbs, George F., Tiltonsville, Ohio. Nut-lock. No. 960,284; June 7; Sp. p. 88; Gaz. vol. 155; p. 18.
Dobbs, Victor E., Köthen, Germany. Machine for milling slicing-knives. No. 975,839; Nov. 15; Sp. p. 3879; Gaz. vol. 160; p. 655.
Doble, Albert E., Scranton, Pa. Eyeglass-spring. No. 958,236; May 17; Sp. p. 3879; Gaz. vol. 154; p. 655.
Doble, William H., assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Package-filling machine. No. 954,722; Apr. 12; Sp. p. 2209; Gaz. vol. 153; p. 385.
Dobson, John E. (See Hart and Dobson.)
Dobson, Harry T., *et al.* (See Caughrean, George H., assignor.)
Docherty, John, Indianapolis, Ind. Hacksaw-frame. No. 965,800; July 26; Sp. p. 6062; Gaz. vol. 156; p. 1027.
Dockery, Edward J., *et al.* (See Turner, Charles F., assignor.)

Alphabetical list of patentees—Continued.

Dodd, Edward H., Hoylake, England. Sewing-machine. No. 960,285; June 7; Sp. p. 89; Gaz. vol. 155; p. 19.

Dodd, James F., Delaware, Ohio. Hat or cap. No. 945,268; Jan. 4; Sp. p. 549; Gaz. vol. 150; p. 90.

Dodd, John H., *et al.* (See Gould, Fred L., assignor.)

Dodd, Louis C., Buffalo, N. Y. Alloy and making same. No. 971,669; Oct. 4; Sp. p. 334; Gaz. vol. 159; p. 59.

Dodd, Robert H. (See Stone and Dodd.)

Dodd, Walter L., Westville, Ind. Wheel. No. 970,476; Sept. 20; Sp. p. 2844; Gaz. vol. 158; p. 497.

Dodd, Willis G., San Francisco, Cal. Rotary engine. No. 948,692; Feb. 8; Sp. p. 1930; Gaz. vol. 151; p. 331.

Dodd, Willis G., San Francisco, Cal. Turbine. No. 970,193; Sept. 13; Sp. p. 2239; Gaz. vol. 158; p. 381.

Dodds, Ethan I., Central Valley, N. Y. Railway-car truck. No. 966,432; Aug. 9; Sp. p. 1225; Gaz. vol. 157; p. 222.

Dodds' Interlocking Block Co. (See Dodds, William R., assignor.)

Dodds, James H., assignor to Dovetail Box Machine Co, St. Paul, Minn. Setting-up machine. No. 947,174; Jan. 18; Sp. p. 4772; Gaz. vol. 150; p. 787.

Dodds, Lee L., assignor to The Monarch Specialty Manufacturing Company, Columbus, Ohio. Water-motor. No. 948,501; Feb. 8; Sp. p. 1525; Gaz. vol. 151; p. 269.

Dodds, William R., San Francisco, Cal., assignor to Dodds' Interlocking Block Co. Building-block. No. 960,217; May 31; Sp. p. 8195; Gaz. vol. 154; p. 1380.

Dodge, Adiel Y., Chicago, Ill. Safety device for passenger-elevators. No. 947,075; Jan. 18; Sp. p. 4590; Gaz. vol. 150; p. 757.

Dodge, Charles A., Springfield, Mass. Mess-kit. No. 971,179; Sept. 27; Sp. p. 4352; Gaz. vol. 158; p. 763.

Dodge Coal Storage Company. (See Johnston, Arthur C., assignor.)

Dodge and Dent Mfg. Co., The. (See Beck, Ernest L., assignor.)

Dodge, Eben G., Maplewood, assignor to Edison Manufacturing Company, West Orange, N. J. Primary battery. No. 969,349; Sept. 6; Sp. p. 421; Gaz. vol. 158; p. 68.

Dodge, Frederick E., Malden, Mass. Anticorrosive coating. No. 975,124; Nov. 8; Sp. p. 2374; Gaz. vol. 160; p. 386.

Dodge, Horace E. (See Dodge, John F. and H. E.)

Dodge, James M., Philadelphia, Pa. Conveyer. No. 973,921; Oct. 25; Sp. p. 5262; Gaz. vol. 159; p. 912.

Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Sprocket-wheel. No. 954,939; Apr. 12; Sp. p. 2727; Gaz. vol. 153; p. 461.

Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Sprocket-wheel. No. 954,940; Apr. 12; Sp. p. 2728; Gaz. vol. 153; p. 462.

Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Sprocket-wheel. No. 954,941; Apr. 12; Sp. p. 2730; Gaz. vol. 153; p. 462.

Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain. No. 958,676; May 17; Sp. p. 4902; Gaz. vol. 154; p. 805.

Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Drive-chain. No. 958,677; May 17; Sp. p. 4904; Gaz. vol. 154; p. 805.

Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-link. No. 973,922; Oct. 25; Sp. p. 5263; Gaz. vol. 159; p. 913.

Dodge, John F. and H. E., Detroit, Mich. Water-jacket for explosive-engines. No. 968,545; Aug. 30; Sp. p. 5772; Gaz. vol. 157; p. 1016.

Dodge, Otis W., Port Edwards, Wis. Drying-cylinder for paper-making machines. No. 977,376; Nov. 29; Sp. p. 7268; Gaz. vol. 160; p. 1234.

Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 945,497; Jan. 4; Sp. p. 1067; Gaz. vol. 150; p. 165.

Dodge, Walter P., and W. B. Alden, assignors to Barney & Berry, Incorporated, Springfield, Mass. Roller-skate. No. 948,666; Feb. 8; Sp. p. 1873; Gaz. vol. 151; p. 323.

Dodgson, Frank L., Rochester, assignor, by mesne assignments, to General Railway Signal Company, Gates, N. Y. Railway-signal. No. 974,864; Nov. 8; Sp. p. 1774; Gaz. vol. 160; p. 296.

Dods, Augustus N., Mount Vernon, N. Y. Plug for electrical connections. No. 950,899; Mar. 1; Sp. p. 921; Gaz. vol. 152; p. 147.

Dodson, Charles I., assignor of one-fourth to H. S. Clark, one-eighth to A. T. Cheatham, and one-eighth to J. Fletcher, Pittsburg, Kans. Incandescent lamp. No. 966,812; Aug. 9; Sp. p. 2135; Gaz. vol. 157; p. 352.

Dodson, Elijah C., De Leon, Tex. Safety car step or running-board. No. 952,728; Mar. 22; Sp. p. 4632; Gaz. vol. 152; p. 839.

Dodson, Harry E. (See Faas and Dodson.)

Dodwell, Malby G. C., Wellington, New Zealand. Resilient tire. No. 972,756; Oct. 11; Sp. p. 2706; Gaz. vol. 159; p. 460.

Doehler, Herman H., New York, N. Y. Art of and apparatus for casting fluid metal. No. 973,483; Oct. 25; Sp. p. 4339; Gaz. vol. 159; p. 760.

Doen, Nathan M., Lynn, Mass., assignor to General Electric Company. Automatic pneumatic chuck. No. 957,194; May 10; Sp. p. 1485; Gaz. vol. 154; p. 265.

Doering, Charles, Jr., assignor to Adams & Elting Co., Chicago, Ill. Apparatus for coating articles with pulverulent material. No. 976,443; Nov. 22; Sp. p. 5233; Gaz. vol. 160; p. 888.

Doerr, Albert I., Erie, Pa. Toy. No. 948,163; Feb. 1; Sp. p. 785; Gaz. vol. 151; p. 130.

Doerr, Carl F., Yonkers, N. Y. Game apparatus. No. 948,209; Feb. 1; Sp. p. 879; Gaz. vol. 151; p. 144.

Dogilbert, François, Paris, France. Apparatus for preparing matrix-sheets for the reproduction of written music or the like. No. 956,312; Apr. 26; Sp. p. 5702; Gaz. vol. 153; p. 993.

Doherty, Henry L., New York, N. Y. Process of and apparatus for burning cement. No. 945,307; Jan. 4; Sp. p. 658; Gaz. vol. 150; p. 103.

Doherty, Henry L., New York, N. Y. Treating combustible gases. No. 964,901; July 19; Sp. p. 4153; Gaz. vol. 156; p. 692.

Doherty, Henry L., New York, N. Y. Apparatus for burning ceramic materials. No. 974,646; Nov. 1; Sp. p. 1296; Gaz. vol. 160; p. 199.

Doherty, Henry L., Madison, Wis. Multitubular cement-kiln. No. 945,498; Jan. 4; Sp. p. 1068; Gaz. vol. 150; p. 165.

Doherty, Norah M., Vernon Center, Conn. Guard for receptacles for whipping cream. No. 975,336; Nov. 8; Sp. p. 2827; Gaz. vol. 160; p. 457.

Doherty, Patrick H., Peekskill, N. Y. Speed-changer. No. 950,317; Feb. 22; Sp. p. 5379; Gaz. vol. 151; p. 944.

Dohm, Robert O., Dane, Wis. Pipe-wrench. No. 977,788; Dec. 6; Sp. p. 811; Gaz. vol. 161; p. 126.

Doidge, John J., South Framingham, Mass. Tack-loader. No. 975,840; Nov. 15; Sp. p. 3882; Gaz. vol. 160; p. 655.

Doidge, John J., South Framingham, Mass. Work-support for welt-beaters. No. 975,841; Nov. 15; Sp. p. 3886; Gaz. vol. 160; p. 656.

Doidge, William, *et al.* (See Redden and Cunningham, assignors.)

Doke, Horace, Greeley, Colo. Rotary engine. No. 980,075; Dec. 27; Sp. p. 5742; Gaz. vol. 161; p. 987.

Dokter, Guy, Andover, S. D. Motor-sleigh. No. 964,002; July 12; Sp. p. 2164; Gaz. vol. 156; p. 354.

Dolan, James M., and R. P. Aylward, Livermore, Cal. Portable hay-press. No. 962,555; June 28; Sp. p. 4910; Gaz. vol. 155; p. 860.

Dolan, James P., Revere, assignor to G. A. Sagendorph, trustee, Newton Center, Mass. Culvert. No. 947,773; Jan. 25; Sp. p. 6109; Gaz. vol. 150; p. 1019.

Dolan, Mattie F., Aberdeen, Wash. Cooking utensil. No. 950,844; Mar. 1; Sp. p. 817; Gaz. vol. 152; p. 131.

Dolan, William J., assignor of two-thirds to E. J. Schmitt and F. W. Sharp, Indianapolis, Ind. Safety-valve for gas-stoves. No. 951,878; Mar. 15; Sp. p. 2895; Gaz. vol. 152; p. 524.

Dolan, William J., assignor of one-fifth to Rhinelander Iron Co. and one-fifth to B. Larsen, Rhinelander, Wis. Slitting attachment for paper-machines. No. 974,039; Oct. 25; Sp. p. 5507; Gaz. vol. 159; p. 954.

Doland, Eben G., Starksboro, Vt. Wagon-brake. No. 980,076; Dec. 27; Sp. p. 5744; Gaz. vol. 161; p. 988.

Dolar, Edward. (See Dolar and Vysa.)

Dolar, Joseph and E., and F. J. Vysa, Chicago, Ill. Leaf-turner. No. 964,093; July 12; Sp. p. 2355; Gaz. vol. 156; p. 386.

Dolby, Jesse H., Elgin, Ill. Timing attachment for cameras. No. 977,440; Dec. 6; Sp. p. 23; Gaz. vol. 161; p. 7.

Dole, Frederick J. (See Upson and Dole.)

Dole, Raymond C., and E. Ellis, Guthrie, Okla. Rail-joint for railway-rails. No. 958,733; May 24; Sp. p. 5020; Gaz. vol. 154; p. 850.

Dollin, Andrew F., and E. W. Couper, San Francisco, Cal. Dental-spray attachment for handpieces. No. 953,022; Mar. 29; Sp. p. 5241; Gaz. vol. 152; p. 966.

Dombrouski, James, Milwaukee, Wis. Pin-setter. No. 953,323; Mar. 29; Sp. p. 5892; Gaz. vol. 152; p. 1064.

Domestic Sewing Machine Company. (See Davis, Stephen A., assignor.)

Domestic Vacuum Cleaner Company. (See Quist and Blanch, assignors.)

Domiszewski, Martin, Kolomea, Austria-Hungary. Apparatus for cleaning fire-tubes of boilers. No. 958,376; May 17; Sp. p. 4322; Gaz. vol 154; p. 705.

Donahoe, Guy F. (See Laurent and Donahoe.)

Donahoo, Peter B., assignor of one-half to R. H. Morris, Oakland, Cal. Tire-sleeve-fastening apparatus. No. 957,313; May 10; Sp. p. 1770; Gaz. vol. 154; p. 309.

Donahoo, Peter B., assignor to A. H. Lent, Oakland, Cal. Pivot-light. No. 967,620; Aug. 16; Sp. p. 3801; Gaz. vol. 157; p. 653.

Donahoo, Peter B., assignor to A. H. Lent, Oakland, Cal. Pivot-light. No. 967,621; Aug. 16; Sp. p. 3802; Gaz. vol. 157; p. 653.

Donahue, Isaac, *et al.* (See Shampou and Donahue.)

Donald, James, and T. F. Downey, Chicago, Ill. Furnace. No. 970,805; Sept. 20; Sp. p. 3586; Gaz. vol. 158; p. 613.

Donald, James L., Mooresville, N. C. Ground-connector. No. 970,693; Sept. 20; Sp. p. 3327; Gaz. vol. 158; p. 572.

Alphabetical list of patentees—Continued.

Donaldson, Allen B., Ewing, Nebr. Clamping device for holding cutter-bars for sharpening. No. 956,313; Apr. 26; Sp. p. 5704; Gaz. vol. 153; p. 993.
Donaldson, Charles, assignor of one-half to E. E. Myers, Coudersport, Pa. Oil and gas burner. No. 970,023; Sept. 13; Sp. p. 1908; Gaz. vol. 158; p. 324.
Donaldson, Charles M., Chardon, Ohio. Sliding door. No. 947,225; Jan. 25; Sp. p. 4894; Gaz. vol. 150; p. 835.
Donaldson, Espey R., Sharpsburg, Ky. Poultry-feeder. No. 955,503; Apr. 19; Sp. p. 3897; Gaz. vol. 153; p. 684.
Donaldson, Francis. (See Dravo and Donaldson.)
Donaldson, George G., assignor of one-half to C. A. Palo, Republic, Mich. Rope-pulley. No. 956,051; Apr. 26; Sp. p. 5109; Gaz. vol. 153; p. 902.
Donaldson, George M., Boston, Mass. Bottle-closure. No. 969,350; Sept. 6; Sp. p. 422; Gaz. vol. 158; p. 68.
Donaldson, Henry W., Chicago, Ill. Water-heater. No. 963,424; July 5; Sp. p. 927; Gaz. vol. 156; p. 138.
Donaldson, James H., assignor to P. Manchester, Chicago, Ill. Means for attaching vestibule-diaphragms. No. 975,219; Nov. 8; Sp. p. 2593; Gaz. vol. 160; p. 418.
Donaldson, James W., Houston, Tex. Spectacles. No. 956,690; May 3; Sp. p. 421; Gaz. vol. 154; p. 66.
Donaldson, Robert S., and V. E. Furnas, assignors to Furnas, Brown & Plummer, Louisville, Ky. Sleeve cable-terminal. No. 970,194; Sept. 13; Sp. p. 2241; Gaz. vol. 158; p. 381.
Donaldson, William R. (See Marble, George W., assignor.)
Donat, Gustavo, Passaic, N. J. Braiding-machine. No. 973,637; Oct. 25; Sp. p. 4678; Gaz. vol. 159; p. 813.
Donat, Joseph L., Chicago, Ill. Plumbing-fixture. No. 959,207; May 24; Sp. p. 6053; Gaz. vol. 154; p. 1012.
Donauer, Georg, assignor to Erste Triester Reisschäl-Fabriks-Aktien-Gesellschaft, Trieste, Austria-Hungary. Manufacture of sizing or finishing mediums. No. 972,068; Oct. 4; Sp. p. 1209; Gaz. vol. 159; p. 205.
Donchian, Armenouhi A., administratrix. (See Donchian, Samuel B.)
Donchian, Samuel B., deceased, Hartford, Conn.; A. A. Donchian, administratrix. Carpet and rug fastener. No. 977,857; Dec. 6; Sp. p. 954; Gaz. vol. 161; p. 150.
Donisthorpe, Edmund S., Hindhead, England. Apparatus for measuring liquids. No. 951,941; Mar. 15; Sp. p. 3018; Gaz. vol. 152; p. 546.
Donisthorpe, Edmund S., London, England. Indicating and totalizing mechanism. No. 953,261; Mar. 29; Sp. p. 5772; Gaz. vol. 152; p. 1045.
Donley, William, and C. Paul, Washington, Pa.; said Paul assignor to said Donley. Gas-burner. No. 974,040; Oct. 25; Sp. p. 5509; Gaz. vol. 159; p. 955.
Donlin, Charles C. (See Allen, Walter E., assignor.)
Donlon, John. (See Buckland, Alfred L., assignor.)
Donnan, George W., assignor to Kendrick Railway Switch Company, Schenectady, N. Y. Electromagnetic switch-operating mechanism. No. 955,391; Apr. 19; Sp. p. 3673; Gaz. vol. 153; p. 645.
Donnell, Harry D., Berkeley, Cal., assignor to The Safety Car Heating and Lighting Co., New York, N. Y. Gas-supply system. No. 961,745; June 14; Sp. p. 3107; Gaz. vol. 155; p. 536.
Donnell, William J., assignor of one-half to C. F. Robertson, Kiefer, Okla. Automatic fire-protector for oil-tanks. No. 954,265; Apr. 5; Sp. p. 1204; Gaz. vol. 153; p. 201.
Donnelley, William J., San Francisco, Cal. Water-tight coupling. No. 976,787; Nov. 22; Sp. p. 5951; Gaz. vol. 160; p. 1004.
Donnelly, Adah, Pittsburg, Pa. Skirt-marker. No. 951,105; Mar. 8; Sp. p. 1305; Gaz. vol. 152; p. 239.
Donnelly, Daniel B., Pittsburg, Pa. Locking-chuck for paper-roll spindles. No. 969,529; Sept. 6; Sp. p. 808; Gaz. vol. 158; p. 127.
Donnelly, Daniel B., Pittsburg, Pa. Core for paper-rolls. No. 973,923; Oct. 25; Sp. p. 5265; Gaz. vol. 159; p. 913.
Donnelly, James A., Brooklyn, N. Y. Valve. No. 952,187; Mar. 15; Sp. p. 3474; Gaz. vol. 152; p. 625.
Donnelly, James A., Brooklyn, N. Y. Steam-heating apparatus. No. 974,245; Nov. 1; Sp. p. 366; Gaz. vol. 160; p. 53.
Donnelly, James A., Brooklyn, N. Y. Steam-heating system. No. 974,246; Nov. 1; Sp. p. 369; Gaz. vol. 160; p. 53.
Donnelly, Jason S., New London, Ohio. Clod-crusher. No. 966,890; Aug. 9; Sp. p. 2295; Gaz. vol. 157; p. 376.
Donnelly, John R., assignor to General Hydrocarbon Co., Portland, Me. Oil-conductor. No. 950,225; Feb. 22; Sp. p. 5202; Gaz. vol. 151; p. 912.
Donnelly, Vincent H., H. B. Koessler, and J. T. Weinzierl, New Kensington, Pa. Triple auxiliary air-valve for carbureters. No. 977,377; Nov. 29; Sp. p. 7270; Gaz. vol. 160; p. 1234.
Donner, Percy E. (See Donner, William H., assignor.) (Reissue.)
Donner, Percy E. (See Hogle and Slick, assignors.)
Donner, William H., assignor to P. E. Donner, Pittsburg, Pa. Rolling black plates or sheets. (Reissue.) No. 13,173; Nov. 22; Sp. p. 6045; Gaz. vol. 160; p. 1023.
Donner, Wm. H. (See Macfarren, Walter W., assignor.)
Donning, Frederick W., Wilkinsburg, Pa. Cigarette machine and case. No. 949,677; Feb. 15; Sp. p. 3936; Gaz. vol. 151; p. 686.
Donning, George W., Stamford, Conn., assignor to H. T. Ambrose, Orange, N. J. Paper-retaining device. (Reissue.) No. 13,077; Jan. 18; Sp. p. 4872; Gaz. vol. 150; p. 804.
Donning, George W., New York, N. Y., assignor of fifty one-hundredths to H. T. Ambrose, East Orange, N. J. Book type-writer. No. 970,195; Sept. 13; Sp. p. 2243; Gaz. vol. 158; p. 382.
Donning, George W., Stanford, Conn., assignor to H. T. Ambrose, Orange, N. J. Tabulating device for type-writers. No. 970,433; Sept. 13; Sp. p. 2728; Gaz. vol. 158; p. 460.
Donohoe, Bernard, Brockton, Mass. Stopper-fastener. No. 946,208; Jan. 11; Sp. p. 2632; Gaz. vol. 150; p. 438.
Donohoe, Michael, Philadelphia, Pa., assignor to Gill & Company. Supporting means for lamp shades and chimneys. No. 975,021; Nov. 8; Sp. p. 2144; Gaz. vol. 160; p. 350.
Donohoe, Thomas. (See Worthen, Burt L., assignor.)
Donohoe, Thomas, Avella, Pa. Mine-car wheel. No. 960,852; June 7; Sp. p. 1234; Gaz. vol. 155; p. 206.
Donovan, James D., assignor, by mesne assignments, of two-thirds to W. F. Davis, Kansas City, Mo. Railway-engine for cars and locomotives. No. 969,750; Sept. 6; Sp. p. 1284; Gaz. vol. 158; p. 206.
Donovan, John P., Westfield, Mass. Mat. No. 977,789; Dec. 6; Sp. p. 813; Gaz. vol. 161; p. 126.
Donovan, Richard J., Ambridge, Pa. Barge. No. 973,860; Oct. 25; Sp. p. 5129; Gaz. vol. 159; p. 891.
Donovan, Timothy J., Syracuse, N. Y. Rail-retainer. No. 958,103; May 17; Sp. p. 3615; Gaz. vol. 154; p. 609.
Donovan, Walter. (See Avery, Gus, assignor.)
Doody, John C. (See Crofutt, Willis S., assignor.)
Dooley, Hammond P., Forrest City, Ark. Ticket-holder. No. 946,341; Jan. 11; Sp. p. 2925; Gaz. vol. 150; p. 485.
Dooley, Joel C., Des Moines, Iowa. Insecticide and disinfectant. No. 970,434; Sept. 13; Sp. p. 2736; Gaz. vol. 158; p. 461.
Dooley, Martin H., North Adams, Mass. Cattle-stanchion. No. 972,069; Oct. 4; Sp. p. 1211; Gaz. vol. 159; p. 205.
Doolittle, Eli W., Binghamton, N. Y. Perpetual calendar. No. 959,479; May 31; Sp. p. 6610; Gaz. vol. 154; p. 1128.
Doolittle, James E., assignor to Birdsey, Somers Company, Bridgeport, Conn. Corset. No. 970,997; Sept. 20; Sp. p. 3947; Gaz. vol. 158; p. 674.
Doolittle, Lewis J. (See Agrell, Frans G., assignor.)
Doolittle, Perry E., Toronto, Ontario, Canada, assignor, by mesne assignments, to Doolittle Rim Co., Ltd. Electric-lamp fixture. No. 973,014; Oct. 18; Sp. p. 3316; Gaz. vol. 159; p. 576.
Doolittle Rim Co. (See Doolittle, Perry E., assignor.)
Doornkaat-Koolman, Jacobus ten, Cassel, Germany. Device for cooling store-vats and similar receptacles. No. 963,751; July 12; Sp. p. 1606; Gaz. vol. 156; p. 270.
Dop, M. H. G. Th. Fiedeldy, *et al.* (See Goldberg, Georg, assignor.)
Dopp, William H., Buffalo, N. Y. Treating filtering elements and filtered liquid. No. 966,177; Aug. 2; Sp. p. 722; Gaz. vol. 157; p. 114.
Döppenschmitt, Philipp, Pforzheim, Germany. Bracelet or finger-ring having a variable diameter. No. 946,342; Jan. 11; Sp. p. 2926; Gaz. vol. 150; p. 485.
Dor-Delattre, Emile, Liege, Belgium. Apparatus for charging the retorts of zinc and other analogous furnaces. No. 969,254; Sept. 6; Sp. p. 226; Gaz. vol. 158; p. 37.
Doran, George A., *et al.* (See Hachmann, Frederick, assignor.)
Doran, James A., Providence, R. I. Tubular rivet. No. 964,407; July 12; Sp. p. 2968; Gaz. vol. 156; p. 490.
Doran, James A., Providence, R. I. Making cluster-settings. No. 964,624; July 19; Sp. p. 3481; Gaz. vol. 156; p. 595.
Doran, James A., Providence, R. I. Cluster-setting for jewelry. No. 964,625; July 19; Sp. p. 3483; Gaz. vol. 156; p. 595.
Doran, Leo, Port Arthur, Ontario, Canada. Refrigerator. No. 947,627; Jan. 25; Sp. p. 5853; Gaz. vol. 150; p. 971.
Doran, Michael J., Brooklyn, N. Y. Amusement apparatus. No. 979,385; Dec. 20; Sp. p. 4240; Gaz. vol. 161; p. 731.
Doran, Patrick, Quebec, Quebec, Canada. Steam-boiler furnace. No. 953,023; Mar. 29; Sp. p. 5243; Gaz. vol. 152; p. 967.
Dorau, John P., Waukesha, Wis. Washing-machine. No. 971,027; Sept. 27; Sp. p. 4015; Gaz. vol. 158; p. 713.
Dorer, Oscar H., Irvington, N. J. Two-cycle gas-engine. No. 961,111; June 14; Sp. p. 1759; Gaz. vol. 155; p. 319.
Dorff, Conrad J., assignor to The Harvard Electric Company, Chicago, Ill. Fuse for electric circuits. No. 949,296; Feb. 15; Sp. p. 3178; Gaz. vol. 151; p. 560.
Dorffel, George, Fruitvale, Cal. Vehicle-wheel. No. 967,740; Aug. 16; Sp. p. 4049; Gaz. vol. 157; p. 693.
Dorffel, George, assignor of one-half to W. C. Clark, Fruitvale, Cal. Gas-engine. No. 947,226. Jan. 25; Sp. p. 4895; Gaz. vol. 150; p. 835.

Alphabetical list of patentees—Continued.

Dorgan, William T., assignor to W. J. Wickes and A. D. Eddy, Saginaw, Mich. Tire-protector. No. 965,695; July 26; Sp. p. 5845; Gaz. vol. 156; p. 992.
Döring, Ernst, Zossen, Germany. Automatic curtain-roller. No. 958,605; May 17; Sp. p. 4772; Gaz. vol. 154; p. 783.
Dorman, David, Noblesville, Ind. Combination-lock. No. 953,599; Mar. 29; Sp. p. 6499; Gaz. vol. 152; p. 1161.
Dorment, Frank C., Detroit, Mich. Pocket-atomizer. No. 956,052; Apr. 26; Sp. p. 5111; Gaz. vol. 153; p. 902.
Dorment, Frank C., Detroit, Mich. Atomizer. No. 958,697; May 17; Sp. p. 4942; Gaz. vol. 154; p. 812.
Dorment, Frank C., Detroit, Mich., assignor, by mesne assignments, to Duff Remedy Company, Chicago, Ill. Atomizer. No. 945,380; Jan. 4; Sp. p. 814; Gaz. vol. 150; p. 126.
Dorn, Charles A., J. O. Ludlam, and C. F. Bonnot, Canton, and L. C. Bonnot, Louisville, assignors to The Bonnot Company, Canton, Ohio. Crushing or pulverizing mill. No. 952,885; Mar. 22; Sp. p. 4959; Gaz. vol. 152; p. 892.
Dorn, Christian, assignor to J. F. Marshall, Philadelphia, Pa. Regulating-valve for dash-pots. No. 966,320; Aug. 2; Sp. p. 992; Gaz. vol. 157; p. 160.
Dorn, Hans, Suhl, Germany. Ammunition for selective shooting. No. 949,063; Feb. 15; Sp. p. 2706; Gaz. vol. 151; p. 481.
Dornbirer, James G., Cleveland, Ohio. Radial drill. No. 979,749; Dec. 27; Sp. p. 5051; Gaz. vol. 161; p. 879.
Dornfeld, John F., Chicago, Ill. Malt-kiln. No. 966,669; Aug. 9; Sp. p. 1777; Gaz. vol. 157; p. 304.
Dorr, Edgar S., and M. F. Rogers, Boston, Mass. Garbage-wagon. No. 956,053; Apr. 26; Sp. p. 5112; Gaz. vol. 153; p. 903.
Dorr, James C., Dansville, N. Y. Making medicated tampons. No. 961,689; June 14; Sp. p. 2984; Gaz. vol. 155; p. 517.
Dorrance, David W., Portland, Oreg. Artificial hand or tool-holding attachment for amputated arms. No. 953,821; Apr. 5; Sp. p. 282; Gaz. vol. 153; p. 50.
Dorris, Bert, Bloomfield, Ind. Rotary engine. No. 960,516; June 7; Sp. p. 557; Gaz. vol. 155; p. 92.
Dorsey, Charles J., Baltimore, Md. Game apparatus. No. 973,484; Oct. 25; Sp. p. 4350; Gaz. vol. 159; p. 761.
Dorsey, Charles J., Baltimore, Md. Toy figure. No. 973,485; Oct. 25; Sp. p. 4352; Gaz. vol. 159; p. 761.
Dorsey, Elmer F., Kansas City, Mo. Changeable price and commodity exhibitor. No. 973,638; Oct. 25; Sp. p. 4684; Gaz. vol. 159; p. 814.
Dorsey, Farnum F., New York, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Stitch-impression machine. No. 947,149; Jan. 18; Sp. p. 4718; Gaz. vol. 150; p. 779.
Dorsey, James C. (See Dorsey, Walter W. and J. C.)
Dorsey, Parmer, Hutchinson, Kans. Rod-packing. No. 969,255; Sept. 6; Sp. p. 227; Gaz. vol. 158; p. 37.
Dorsey, Parmer, assignor to The Standard Supply and Manufacturing Company, Hutchinson, Kans. Rod-packing. No. 947,889; Feb. 1; Sp. p. 241; Gaz. vol. 151; p. 39.
Dorsey, Parmer, assignor to The Standard Supply and Manufacturing Company, Hutchinson, Kans. Tube-cleaner. No. 974,041; Oct. 25; Sp. p. 5511; Gaz. vol. 159; p. 955.
Dorsey, Robert L., assignor to Tucker & Dorsey Manufacturing Company, Indianapolis, Ind. Cutter. No. 958,377; May 17; Sp. p. 4323; Gaz. vol. 154; p. 706.
Dorsey, Walter W. and J. C., assignors of one-fourth to R. Baublits and one-fourth to M. F. Loub, Las Animas, Colo. Intercepting-chute. No. 976,852; Nov. 29; Sp. p. 6105; Gaz. vol. 160; p. 1051.
Dorstewitz, Edward M. (See Jaffee and Dorstewitz.)
Dorton, William, and J. S. Boyer, Leadwood, Mo. Sprocket. No. 975,753; Nov. 15; Sp. p. 3714; Gaz. vol. 160; p. 626.
Dorward, John G., San Francisco, Cal. Double-acting deep-well pump. No. 959,321; May 24; Sp. p. 6275; Gaz. vol. 154; p. 1050.
Dossett, James A., Paducah, Ky. Advertising device. No. 954,942; Apr. 12; Sp. p. 2731; Gaz. vol. 153; p. 462.
Dossetter, William J., Clerkenwell, London, England. Spring-grip attachment for dumb-bells. No. 965,284; July 26; Sp. p. 4923; Gaz. vol. 156; p. 849.
Dossey, William J., Cornish, Okla. Heater. No. 975,022; Nov. 8; Sp. p. 2145; Gaz. vol. 160; p. 350.
Dosterschill, Bernhard K., Dallas, Tex. Double-stream draft-arm. No. 963,530; July 5; Sp. p. 1143; Gaz. vol. 156; p. 174.
Dotson, Ira M., Santa Cruz, Cal. Motor. No. 969,685; Sept. 6; Sp. p. 1129; Gaz. vol. 158; p. 182.
Doty, Charles H. (See Stansill, Doty, and Hubbard.)
Doty, Homer V., and M. H. Kirkland, Benton Ridge, Ohio. Gate. No. 975,516; Nov. 15; Sp. p. 3209; Gaz. vol. 160; p. 546.
Doty, John W., Kellyville, Okla. Cotton-cultivator. No. 952,983; Mar. 22; Sp. p. 5149; Gaz. vol. 152; p. 925.
Doty, Wilson K. (See Davies, Roderick W., assignor.)
Double Body Bolster Company. (See Howard and Pflager, assignors.)
Doubledee, Melvin, Joplin, Mo. Ore-concentrating jig. No. 973,180; Oct. 18; Sp. p. 3699; Gaz. vol. 159; p. 634.
Douchamp, Henry, Mount Jewett, assignor to Smethport Glass Company, Smethport, Pa. Glass-furnace. No. 979,935; Dec. 27; Sp. p. 5446; Gaz. vol. 161; p. 941.
Doud, Arthur N., North Stockholm, N. Y. Bottom-dumping hoisting-bucket. No. 954,266; Apr. 5; Sp. p. 1206; Gaz. vol. 153; p. 202.
Dougherty Bros. Tent & Awning Company. (See Dilg, Joseph E., assignor.)
Dougherty, Clifton L., Indianapolis, Ind. Balancing vehicle. No. 960,838; June 7; Sp. p. 1211; Gaz. vol. 155; p. 202.
Dougherty, Daniel A. (See McVeigh, John, assignor.)
Dougherty, Floyd B., Alexandria county, Va. Water-gas-apparatus. No. 960,839; June 7; Sp. p. 1214; Gaz. vol. 155; p. 202.
Dougherty, Harmar D., *et al.* (See Henshaw, Fred M., assignor.)
Dougherty, James W., McKeesport, Pa. Street-cleaning machine. No. 948,164; Feb. 1; Sp. p. 786; Gaz. vol. 151; p. 130.
Dougherty, James W., Sterling, Kans. Weather-boarding gage. No. 977,715; Dec. 6; Sp. p. 666; Gaz. vol. 161; p. 102.
Dougherty, John M., and H. C. Tabler, St. Louis, Mo. Regulating apparatus. No. 957,601; May 10; Sp. p. 2335; Gaz. vol. 154; p. 406.
Dougherty, Orville, Three Rivers, Mich. Concrete post or pole. No. 946,343; Jan. 11; Sp. p. 2927; Gaz. vol. 150; p. 486.
Dougherty, Owen T., Chicago, Ill. Milk-bottle opener. No. 948,392; Feb. 8; Sp. p. 1292; Gaz. vol. 151; p. 232.
Dougherty, Owen T., St. Paul, Minn. Manhole-cover. No. 965,163; July 26; Sp. p. 4673; Gaz. vol. 156; p. 810.
Dougherty, William H., New York, N. Y. Ventilated port. No. 945,764; Jan. 11; Sp. p. 1685; Gaz. vol. 150; p. 282.
Doughty, Herman W., and C. E. Beach, Binghamton, N. Y., assignors to Star Electric Company. Signal-box. No. 949,699; Feb. 15; Sp. p. 3979; Gaz. vol. 151; p. 693.
Dougine, James T., Kenosha, Wis. Hydraulic-power plant. No. 970,196; Sept. 13; Sp. p. 2256; Gaz. vol. 158; p. 382.
Douglas, Arthur H., Chicago, Ill. Motion advertising device. No. 950,166; Feb. 22; Sp. p. 5073; Gaz. vol. 151; p. 890.
Douglas, Arthur H., Chicago, Ill. Motion advertising device. No. 951,599; Mar. 8; Sp. p. 2300; Gaz. vol. 152; p. 399.
Douglas, Elden F., Weskan, Kans. Irrigating-cultivator. No. 965,623; July 26; Sp. p. 5696; Gaz. vol. 156; p. 968.
Douglas, Elmer J., South Albany, Vt. Screw-driver attachment. No. 951,526; Mar. 8; Sp. p. 2165; Gaz. vol. 152; p. 376.
Douglas, Hammond B., assignor to The Wire Goods Company, Worcester, Mass. Garment-hanger. No. 964,003; July 12; Sp. p. 2169; Gaz. vol. 156; p. 354.
Douglas, Harry J. (See Rich, Charles C., assignor.)
Douglas, John, Pleasant Ridge, Ohio. Lead-calked screw-joint outlet. No. 956,314; Apr. 26; Sp. p. 5705; Gaz. vol. 153; p. 993.
Douglas, Robert B., Laanecoorie, Victoria, assignor of one-fourth to G. F. Martin, Newbridge, Australia. Stripper-harvester and other comb-machine. No. 971,180; Sept. 27; Sp. p. 4354; Gaz. vol. 158; p. 764.
Douglas, Stephen A., assignor of one-half to C. L. Anderson, Ardmore, Okla. Vehicle-tire. No. 975,220; Nov. 8; Sp. p. 2595; Gaz. vol. 160; p. 419.
Douglas, William, Tacoma, Wash. Bottle and stopper therefor. No. 955,772; Apr. 19; Sp. p. 4490; Gaz. vol. 153; p. 775.
Douglas, William G., Winnipeg, and W. Robinson, Selkirk, Manitoba, Canada. Grain-car door. (Reissue.) No. 13,139; Aug. 2; Sp. p. 1174; Gaz. vol. 157; p. 190.
Douglas, William M., Galveston, Tex. Automobile torpedo. No. 978,862; Dec. 20; Sp. p. 3096; Gaz. vol. 161; p. 549.
Douglass, Archibald A., Jr., and D. F., Ruby, assignors of one-half to G. K., R. K., and R. B. Laney, Chesterfield, S. C. Cotton-chopper. No. 974,247; Nov. 1; Sp. p. 372; Gaz. vol. 160; p. 54.
Douglass, Arthur R., and J. F. Willett, assignors of one-third to P. E. Vail, Chariton, Iowa. Nut-lock. No. 947,057; Jan. 18; Sp. p. 4552; Gaz. vol. 150; p. 751.
Douglass, Arthur R., and J. F. Willett, assignors of one-third to P. E. Vail, Chariton, Iowa. Combined mop-head and wringer. No. 970,197; Sept. 13; Sp. p. 2259; Gaz. vol. 158; p. 382.
Douglass, Daniel F. (See Douglass, Archibald A., Jr., and D. F.)
Douglass, Frederick A., *et al.* (See Lindgren, Carl E., assignor.)
Douglass, N. B. (See Fry, Lee E., assignor.)
Douglass, Roswell L., Brookline, Mass. Hand-strap. No. 954,723; Apr. 12; Sp. p. 2221; Gaz. vol. 153; p. 385.
Dourte, George J., Longmont, Colo. Pump. No. 970,435; Sept. 13; Sp. p. 2737; Gaz. vol. 158; p. 461.
Dover Engineering Works, The. (See Pollock, Thomas, assignor.)
Dover, George W., Cranston, R. I. Mounting. No. 971,181; Sept. 27; Sp. p. 4357; Gaz. vol. 158; p. 764.

Alphabetical list of patentees—Continued.

Dover Stamping & Manufacturing Company. (See Anderson, Pahr, assignor.)
Dover Stamping and Manufacturing Company. (See Whitney, Horace E., assignor.)
Dovetail Box Machine Co. (See Dodds, James H., assignor.)
Dovey, Charles E. (See Cochran, Charles C., assignor.)
Dovo, Joseph, Tenino, Wash. Hook. No. 977,716; Dec. 6; Sp. p. 667; Gaz. vol. 161; p. 102.
Dow, A. J. (See Hartley, James W., assignor.)
Dow, Abraham L., Grover, assignor to himself, and J. F. Albright, Denver, Colo. Machine for cold-rolling disks. No. 950,900; Mar. 1; Sp. p. 923; Gaz. vol. 152; p. 147.
Dow, Alexander, New York, N. Y. Nail-file. No. 979,398; Dec. 20; Sp. p. 4270; Gaz. vol. 161; p. 734.
Dow, Alexander, assignor to Dow Rim Company, New York, N. Y. Means for locking detachable flanges on demountable rims. No. 959,426; May 24; Sp. p. 6468; Gaz. vol. 154; p. 1083.
Dow, Alexander, assignor to Dow Rim Company, New York, N. Y. Means for locking detachable flanges on demountable rims. No. 967,115; Aug. 9; Sp. p. 2774; Gaz. vol. 157; p. 454.
Dow, Charles E. W., Boston, Mass., assignor to American Moistening Company. Air-treating machine. No. 968,332; Aug. 23; Sp. p. 5330; Gaz. vol. 157; p. 918.
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow Chemical Company, The. (See Graves and Simmons, assignors.)
Dow, Floyd, assignor of one-half to N. Delay, Princeton, Ill. Lamp-burner. No. 958,378; May 17; Sp. p. 4325; Gaz. vol. 154; p. 706.
Dow, Fredrick L. (See Clawson and Dow.)
Dow, George B. N., assignor of one-half to A. W. Cole, Manchester, N. H. Attachment for faucets. No. 950,529; Mar. 1; Sp. p. 146; Gaz. vol. 152; p. 24.
Dow, George B. N., assignor of one-half to A. W. Cole, Manchester, N. H. Sharpening implement. No. 950,530; Mar. 1; Sp. p. 146; Gaz. vol. 152; p. 24.
Dow, George B. N., and A. W. Cole, Manchester, N. H. Lamp-filler. No. 959,480; May 31; Sp. p. 6612; Gaz. vol. 154; p. 1128.
Dow, Herbert H. (See Gates and Dow.)
Dow, Herbert H., Midland, Mich. Governing mechanism for fluid-pressure engines. No. 976,853; Nov. 29; Sp. p. 6108; Gaz. vol. 160; p. 1051.
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Water seal. No. 957,314; May 10; Sp. p. 1772; Gaz. vol. 154; p. 309.
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Water seal. No. 961,216; June 14; Sp. p. 1982; Gaz. vol. 155; p. 358.
Dow, Herbert H., Midland, Mich., assignor to The Westinghouse Machine Company. Regenerator. No. 977,605; Dec. 6; Sp. p. 436; Gaz. vol. 161; p. 64.
Dow, James C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating material. No. 952,513; Mar. 22; Sp. p. 4149; Gaz. vol. 152; p. 763.
Dow, James C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker. No. 973,924; Oct. 25; Sp. p. 5266; Gaz. vol. 159; p. 913.
Dow, John L., Melrose Highlands, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shuttle tension device. No. 974,757; Nov. 1; Sp. p. 1537; Gaz. vol. 160; p. 236.
Dow, Joseph A., assignor to Relindo Cushion Shoe Company, Lynn, Mass. Heel-seat extension for lasts. No. 976,788; Nov. 22; Sp. p. 5952; Gaz. vol. 160; p. 1005.
Dow, Lewis A., Melrose, Mass. Tire-carrier. No. 962,401; June 21; Sp. p. 4526; Gaz. vol. 155; p. 781.
Dow Rim Company. (See Dow, Alexander, assignor.)
Dow, Willard E., Braintree, Mass. Magneto-interrupter. No. 975,842; Nov. 15; Sp. p. 3887; Gaz. vol. 160; p. 656.
Dow, William S., Cambridge, Mass. Stopper-tie. No. 954,503; Apr. 12; Sp. p. 1726; Gaz. vol. 153; p. 310.
Dow Wire & Iron Works, The. (See Schweimler, Robert W., assignor.)
Dowagiac Manufacturing Company. (See Fowle, Charles L., assignor.)
Dowd, John A., Fall River, Mass. Rotary press. No. 947,013; Jan. 18; Sp. p. 4486; Gaz. vol. 150; p. 738.
Dowd, John C., New York, N. Y. Shaving-mug. No. 946,937; Jan. 18; Sp. p. 4333; Gaz. vol. 150; p. 712.
Dowd, Patrick J. (See Farrell and Dowd.)
Dowden, John W., Reeves, assignor of one-half to A. A. Koonce, Lake Charles, La. Scissors. No. 959,481; May 31; Sp. p. 6613; Gaz. vol. 154; p. 1128.
Dowdy, Ewell M., Water Valley, Tex. Plow attachment. No. 972,169; Oct. 11; Sp. p. 1434; Gaz. vol. 159; p. 256.
Dowdy, Ewell M., Water Valley, Tex. Cultivator. No. 976,854; Nov. 29; Sp. p. 6111; Gaz. vol. 160; p. 1052.
Dowdy, Ewell M., Water Valley, Tex. Draft device. No. 977,284; Nov. 29; Sp. p. 7067; Gaz. vol. 160; p. 1202.
Dowe, Arthur W., Los Angeles, Cal. Lock. No. 964,465; July 12; Sp. p. 3085; Gaz. vol. 156; p. 507.
Dowling, Edward J. (See Dowling, James A., assignor.)
Dowling, James A., assignor of one-fourth to E. J. Dowling, Biloxi, Miss. Engine. No. 952,311; Mar. 15; Sp. p. 3733; Gaz. vol. 152; p. 668.
Dowling, Murt J., Stewartsville, N. J. Railway-tie. No. 967,176; Aug. 16; Sp. p. 2898; Gaz. vol. 157; p. 502.
Dowling, William. (See Edwards and Dowling.)
Dowman-Dozier Manufacturing Company. (See McGinnis, Claude A., assignor.)
Downey, Andrew, Columbus, Ohio. Vending-machine. No. 967,347; Aug. 16; Sp. p. 3237; Gaz. vol. 157; p. 561.
Downey, David H., Basalt, Colo. Pressure-regulator for air-brakes. No. 972,347; Oct. 11; Sp. p. 1801; Gaz. vol. 159; p. 316.
Downey, David H., Tiffin, Ohio. Sprocket-gear. No. 975,938; Nov. 15; Sp. p. 4089; Gaz. vol. 160; p. 690.
Downey, John, and J. F. Hamilton, Seward, Kans. Governor. No. 947,150; Jan. 18; Sp. p. 4721; Gaz. vol. 150; p. 779.
Downey Machine Company. (See Downey, Richard F., assignor.)
Downey, Richard F., Milwaukee, Wis. Vending-machine. No. 979,833; Dec. 27; Sp. p. 5245; Gaz. vol. 161; p. 908.
Downey, Richard F., assignor to Automatic Bowling Alley Company, Milwaukee, Wis. Bowling-game apparatus. No. 954,943; Apr. 12; Sp. p. 2732; Gaz. vol. 153; p. 462.
Downey, Richard F., assignor to Automatic Card Seller Company, Milwaukee, Wis. Card-vending machine. No. 959,482; May 31; Sp. p. 6615; Gaz. vol. 154; p. 1129.
Downey, Richard F., assignor to Automatic Bowling Alley Company, Milwaukee, Wis. Game apparatus. No. 964,466; July 12; Sp. p. 3091; Gaz. vol. 156; p. 507.
Downey, Richard F., assignor to Downey Machine Company, Milwaukee, Wis. Vending-machine. No. 958,237; May 17; Sp. p. 3880; Gaz. vol. 154; p. 655.
Downey, Thomas F. (See Donald and Downey.)
Downey, Thomas F., Chicago, Ill. Steam-boiler. No. 949,956; Feb. 22; Sp. p. 4579; Gaz. vol. 151; p. 818.
Downey, William H. J., Wilmington, Del. Shaving-brush. No. 950,377; Feb. 22; Sp. p. 5493; Gaz. vol. 151; p. 961.
Downey, William H. J., Wilmington, Del. Tobacco-pipe. No. 967,348; Aug. 16; Sp. p. 3240; Gaz. vol. 157; p. 561.
Downey, William H. J., Wilmington, Del. Sanitary shaving-cup. No. 973,925; Oct. 25; Sp. p. 5268; Gaz. vol. 159; p. 914.
Downey, William H. J., Wilmington, Del. Railway cross-tie. No. 979,268; Dec. 20; Sp. p. 4033; Gaz. vol. 161; p. 693.
Downie, Robert M., assignor to The Keystone Driller Co., Beaver Falls, Pa. Brake mechanism. No. 952,514; Mar. 22; Sp. p. 4150; Gaz. vol. 152; p. 764.
Downing, James S., assignor to Downing Locomotive Draft Appliance Company, Atlanta, Ga. Draft appliance for steam-engine boilers. No. 947,660; Jan. 25; Sp. p. 5917; Gaz. vol. 150; p. 983.
Downing, Lettie, Franktown, Colo. Bed-spring. No. 974,758; Nov. 1; Sp. p. 1540; Gaz. vol. 160; p. 236.
Downing Locomotive Draft Appliance Company. (See Downing, James S., assignor.)
Downs, George H., North Powder, assignor of one-half to W. E. Grace, Portland, Oreg. Car-wheel. No. 947,435; Jan. 25; Sp. p. 5409; Gaz. vol. 150; p. 966.
Downs, George H., North Powder, assignor of one-half to W. E. Grace, Portland, Oreg. Trolley-wheel. No. 947,436; Jan. 25; Sp. p. 5412; Gaz. vol. 150; p. 907.
Downs, George H., assignor of one-half to W. E. Grace, Portland, Oreg. Changeable sprocket-gear. No. 969,148; Aug. 30; Sp. p. 7033; Gaz. vol. 157; p. 1224.
Doxford, Charles D., Sunderland, England. Discharging apparatus for navigable vessels. No. 974,104; Oct. 25; Sp. p. 5626; Gaz. vol. 159; p. 975.
Doxsee, Ira T., Bay Shore, N. Y. Postal-card shield or cover. No. 945,710; Jan. 4; Sp. p. 1503; Gaz. vol. 150; p. 235.
Doyle, Charles E. (See Brown and Doyle.)
Doyle, George H., Pardeeville, Wis. Street-indicating device. No. 951,600; Mar. 8; Sp. p. 2302; Gaz. vol. 152; p. 399.
Doyle, James B. (See Clark, George W., assignor.)
Doyle, James P., Mount Pleasant, Pa. Oil-cup. No. 954,173; Apr. 5; Sp. p. 1013; Gaz. vol. 153; p. 172.
Doyle, John, New York, N. Y. Gas-regulator. No. 970,895; Sept. 20; Sp. p. 3763; Gaz. vol. 158; p. 642.
Doyle, John H., South Bend, Ind. Polishing-brush. No. 946,938; Jan. 18; Sp. p. 4335; Gaz. vol. 150; p. 712.
Doyle, Joseph V., New York, N. Y. Connection for electric cars. No. 971,363; Sept. 27; Sp. p. 4711; Gaz. vol. 158; p. 823.
Doyle, Patrick J., assignor of one-half to C. W. Jackson, Chicago, Ill. Circuit-changer. No. 951,601; Mar. 8; Sp. p. 2303; Gaz. vol. 152; p. 400.
Doyle, Percival F. (See Mackie and Doyle.)
Drachmann, Max, Berlin, Germany. Copying-machine. No. 956,951; May 3; Sp. p. 987; Gaz. vol. 154; p. 155.
Draeseke, Charles G., Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Car-wheel lathe. No. 972,348; Oct. 11; Sp. p. 1804; Gaz. vol. 159; p. 317.
Dräger, Alexander B. (See Dräger, Johann H. and A. B.)
Dräger, Alexander B., Lübeck, Germany. Device for preventing the ignition of pressure-reducing valves. No. 970,024; Sept. 13; Sp. p. 1910; Gaz. vol. 158; p. 324.

Alphabetical list of patentees—Continued.

Dräger, Alexander B., assignor to Drägerwerk, Heinr. & Bernh. Dräger, Lübeck, Germany. Welding-burner. No. 971,430; Sept. 27; Sp. p. 4826; Gaz. vol. 158; p. 844.
Dräger, Johann H. and A. B., assignors to Drägerwerk, Heinr. & Bernh. Dräger, Lubeck, Germany. Device for preventing ignition of pressure-reducing valves. No. 979,936; Dec. 27; Sp. p. 5449; Gaz. vol. 161; p. 941.
Drägerwerk, Heinr. & Bernh. Dräger. (See Dräger, Alexander B., assignor.)
Drägerwerk, Heinr. & Bernh. Dräger. (See Dräger, Johann H. and A. B., assignors.)
Drake, Bert E. (See Morse, Louis C., assignor.)
Drake, Charles H., Brooklyn, N. Y., assignor to H. N. McClain and W. Hollowell, Chicago, Ill. Book-indexing. No. 945,765; Jan. 11; Sp. p. 1687; Gaz. vol. 150; p. 283.
Drake, James S., Lancaster, S. C., assignor of one-half to B. S. Moore, Charlotte, N. C. Device for dispensing travelers. No. 949,626; Feb. 15; Sp. p. 3851; Gaz. vol. 151; p. 671.
Drake, Julian F., Tracy, assignor of one-half to J. Kemna, Minneapolis, Minn. Detachable boiler-flue. No. 958,910; May 24; Sp. p. 5456; Gaz. vol. 154; p. 914.
Drake, William H., Hackettstown, N. J. Attachment for radiators. No. 958,995; May 24; Sp. p. 5608; Gaz. vol. 154; p. 942.
Dramis, Gennaro, Brooklyn, N. Y. Air-cooling apparatus. No. 978,008; Dec. 6; Sp. p. 1261; Gaz. vol. 161; p. 202.
Draper, Clare H., *et al.*, executors. (See Bounds and Ellenburg.)
Draper, Clare H., *et al.*, executors. (See Cunniff, John V.)
Draper, Clare H., *et al.*, executors. (See Draper, William F.)
Draper, Clare H., *et al.*, executors. (See Northrop, Jonas.)
Draper, Clare H., *et al.*, executors. (See Wood, Everett S.)
Draper, Clare H., assignor to Draper Company, Hopedale, Mass. Pick-matching mechanism for automatic weft-replenishing looms. No. 964,501; July 19; Sp. p. 3194; Gaz. vol. 156; p. 553.
Draper Company. (See Armstead, Michael J., assignor.)
Draper Company. (See Bolton, John B., assignor.)
Draper Company. (See Burbank, Louis S., assignor.)
Draper Company. (See Cunniff, John V., assignor.)
Draper Company. (See Day, Paul, assignor.)
Draper Company. (See Draper, Clare H., assignor.)
Draper Company. (See Draper, George A., assignor.)
Draper Company. (See Dunaway, Lyszander, assignor.)
Draper Company. (See Eubanks, Sayers D., assignor.)
Draper Company. (See Gustafson and Duquette.)
Draper Company. (See Hollins, Denis, assignor.)
Draper Company. (See Janelle, Oscar, assignor.)
Draper Company. (See King, John G., assignor.)
Draper Company. (See Littlefield, Charles A., assignor.)
Draper Company. (See Marcure, James, assignor.)
Draper Company. (See McCaslin, William, assignor.)
Draper Company. (See Michael, Arthur L., assignor.)
Draper Company. (See Moore, Frederic W., assignor.)
Draper Company. (See Morrill, Ernest L., assignor.)
Draper Company. (See O'Connell, James P., assignor.)
Draper Company. (See Osgood and Rhoades, assignors.)
Draper Company. (See Paquette, Severin N., assignor.)
Draper Company. (See Robinson, Joshua, assignor.)
Draper Company. (See Rhoades, Alonzo E., assignor.)
Draper Company. (See Rhodes, Albert C., assignor.)
Draper Company. (See Roper, Charles F., assignor.)
Draper Company. (See Sontag, George A., assignor.)
Draper Company. (See Stimpson, Edward S., assignor.)
Draper Company. (See Stone, Melvin L., assignor.)
Draper Company. (See Trombly, William C., assignor.)
Draper Company. (See Truesdale, Samuel R., assignor.)
Draper Company. (See Whitehead, George E., assignor.)
Draper Company. (See Widdup, William R., assignor.)
Draper, George A., assignor to Draper Company, Hopedale, Mass. Loom-shuttle. No. 968,647; Aug. 30; Sp. p. 5985; Gaz. vol. 157; p. 1053.
Draper, George O. (See Wheaton, Carl M., assignor.)
Draper, George O., New York, N. Y. Landing and starting apparatus for aeroplanes. No. 965,881; Aug. 2; Sp. p. 66; Gaz. vol. 157; p. 13.
Draper, John F., assignor of one-half to J. J. Taglauer, Albia, Iowa. Animal-trap. No. 971,530; Oct. 4; Sp. p. 39; Gaz. vol. 159; p. 9.
Draper, Leo E., Santa Cruz, Cal. Spring-fork for bicycles. No. 974,365; Nov. 1; Sp. p. 656; Gaz. vol. 160; p. 98.
Draper & Maynard Company, The. (See Maynard, John F., assignor.)
Draper, William F. (See Bounds and Ellenburg, assignors.)
Draper, William F. (See Cunniff, John V., assignor.)
Draper, William F. (See Northrop, Jonas, assignor.)
Draper, William F. (See Wood, Everett S., assignor.)
Draper, William F. (See Wood and Northrop, assignors.)
Draper, William F., deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Filling-replenishing loom. No. 973,265; Oct. 18; Sp. p. 3873; Gaz. vol. 159; p. 663.
Draudt, Benjamin R., Cleveland, assignor to The Corbett-Stevens Company, Columbus, Ohio. Seal-pad-lock. No. 964,094; July 12; Sp. p. 2356; Gaz. vol. 156; p. 387.
Dravo, Ralph M., Edgeworth, Pa., and F. Donaldson, Davenport, Iowa. Lining for shafts. No. 971,733; Oct. 4; Sp. p. 477; Gaz. vol. 159; p. 82.
Dravo, Ralph M., Edgeworth, Pa., and F. Donaldson, Davenport, Iowa. Lining for shafts. No. 971,734; Oct. 4; Sp. p. 478; Gaz. vol. 159; p. 82.
Dray, Elsworth, Steubenville, Ohio. Bottle-capping machine. No. 949,417; Feb. 15; Sp. p. 3452; Gaz. vol. 151; p. 602.
Drayton, William, Kachelmacher, Ohio. Kiln. No. 960,286; June 7; Sp. p. 92; Gaz. vol. 155; p. 19.
Dreadon, John S., Mititai, Northern Wairoa, New Zealand. Grindstone. No. 945,499; Jan. 4; Sp. p. 1070; Gaz. vol. 150; p. 165.
Drechsler, Oscar, Pittsburg, Pa. Attachment for gas heating-stoves. No. 976,053; Nov. 15; Sp. p. 4297; Gaz. vol. 160; p. 729.
Dreger, Karl von, Berlin, Germany. Starter for electric motors. No. 954,724; Apr. 12; Sp. p. 2222; Gaz. vol. 153; p. 386.
Dreher, Charles L., South Norwalk, Conn. Sanitary seat-cover. No. 974,865; Nov. 8; Sp. p. 1775; Gaz. vol. 160; p. 296.
Dreher, Ernest W., and R. P. Kronke, Meriden, Conn. Eaves-trough hanger. No. 950,129; Feb. 22; Sp. p. 4991; Gaz. vol. 151; p. 877.
Dreher, Oscar, Stroudsburg, Pa. Paste-box. No. 958,480; May 17; Sp. p. 4527; Gaz. vol. 154; p. 741.
Dreifuss, Max, assignor to G. Fox, Cleveland, Ohio. Disinfecting appliance. No. 954,426; Apr. 12; Sp. p. 1540; Gaz. vol. 153; p. 283.
Dreisbach, Charles A., assignor of one-half to W. J. Smith, New Haven, Conn. Sand-blast machine. No. 948,270; Feb. 1; Sp. p. 996; Gaz. vol. 151; p. 164.
Dreisbach, Edwin J., New Haven, Conn. Knockdown adjustable picture-frame. No. 965,377; July 26; Sp. p. 5132; Gaz. vol. 156; p. 880.
Drenk, Charles F., assignor of one-half to J. F. Kline, Elkhart, Ind. Bottle-stopper. No. 978,712; Dec. 13; Sp. p. 2807; Gaz. vol. 161; p. 477.
Drepperd, John W., Beverly, W. Va. Fruit-gatherer. No. 946,424; Jan. 11; Sp. p. 3193; Gaz. vol. 150; p. 514.
Dresbach, Harry V., and W. R. Morey, Iola, Kans. Vapor-burner. No. 967,622; Aug. 16; Sp. p. 3803; Gaz. vol. 157; p. 653.
Dresback, Frank R., Kansas City, Mo., and E. M. Reckards, Ozawkie, Kans. Apparatus for applying solutions to animals. No. 974,042; Oct. 25; Sp. p. 5512; Gaz. vol. 159; p. 955.
Dresia, Frank J., Columbus, Kans. Cane-stripper. No. 951,237; Mar. 8; Sp. p. 1558; Gaz. vol. 152; p. 280.
Dresner, Samuel, Chicago, Ill. Suit-case. No. 958,860; May 24; Sp. p. 5330; Gaz. vol. 154; p. 896.
Dresp, John P., assignor to F. D. Kees Mfg. Company, Beatrice, Nebr. Adjusting means for furnace-regulators. No. 945,766; Jan. 11; Sp. p. 1689; Gaz. vol. 150; p. 283.
Dressel, Harry J., New Orleans, La. Pay-as-you-enter attachment for street-cars. No. 947,695; Jan. 25; Sp. p. 5970; Gaz. vol. 150; p. 994.
Dressel, Harry J., New Orleans, La. Pay-as-you-enter attachment for street-cars. No. 947,732; Jan. 25; Sp. p. 6036; Gaz. vol. 150; p. 1006.
Dressel, Oscar, Elberfeld, R. Kothe and H. Hoerlein, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 965,882; Aug. 2; Sp. p. 68; Gaz. vol. 157; p. 13.
Dressel, Oscar, Elberfeld, R. Kothe and H. Hoerlein, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 978,438; Dec. 13; Sp. p. 2208; Gaz. vol. 161; p. 382.
Dressel, Oscar, Elberfeld, R. Kothe and H. Hoerlein, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyestuff. No. 978,439; Dec. 13; Sp. p. 2209; Gaz. vol. 161; p. 383.
Dressel Railway Lamp Works, The. (See Black, Robert, assignor.)
Dressel Railway Lamp Works. (See Sanderson, Edward S., assignor.)
Dressler, Charles E., New York, N. Y., and F. Klett, Weehawken, N. J.; said Klett assignor to said Dressler. Moving-picture machine. No. 963,531; July 5; Sp. p. 1145; Gaz. vol. 156; p. 174.
Dressler, Rudolph G., New York, N. Y. Amusement flying-machine. No. 952,886; Mar. 22; Sp. p. 4961; Gaz. vol. 152; p. 893.
Drever, William, Tomahawk, Wis. Chute. No. 965,624; July 26; Sp. p. 5698; Gaz. vol. 156; p. 968.
Drever, William, and C. Kellaher, assignors to Tomahawk Iron Works, Tomahawk, Wis. Log-retainer. No. 955,773; Apr. 19; Sp. p. 4492; Gaz. vol. 153; p. 775.
Drew, Herbert E., and W. P. Carroll, Portland, Me. Adjustable support for hanging lamps. No. 972,170; Oct. 11; Sp. p. 1436; Gaz. vol. 159; p. 257.
Drew, Herbert H., Waterloo, Wis. Elevated carrier. No. 976,157; Nov. 22; Sp. p. 4549; Gaz. vol. 160; p. 787.

Alphabetical list of patentees—Continued.

Drew, Herbert W., Chicago, Ill. Grain-door for freight-cars. No. 973,486; Oct. 25; Sp. p. 4353; Gaz. vol. 159; p. 761.

Drew, Herbert W., assignor to Northern Railway Supply Company, Chicago, Ill. Box-cover fastener. No. 978,362; Dec. 13; Sp. p. 2041; Gaz. vol. 161; p. 356.

Drew, Joseph E., Bradentown, Fla. Horse-detacher. No. 961,941; June 21; Sp. p. 3538; Gaz. vol. 155; p. 624.

Drew, Nicholas, assignor to H. M. Reynolds, Oneida, N. Y. Drill-chuck. No. 955,326; Apr. 19; Sp. p. 3514; Gaz. vol. 153; p. 623.

Drew, Warren F., New York, N. Y. Pipe-coupling. No. 954,504; Apr. 12; Sp. p. 1728; Gaz. vol. 153; p. 310.

Drewell, Heinrich, Charlottenburg, assignor to Schnellsetz-maschinengesellschaft mit beschränkter Haftung, Berlin, Germany. Shifting device. No. 953,988; Apr. 5; Sp. p. 607; Gaz. vol. 153; p. 109.

Drewell, Heinrich, Charlottenburg, assignor to Schnellsetz-maschinengesellschaft mit beschränkter Haftung, Berlin, Germany. Machine for perforating bands of type-setting machines. No. 954,023; Apr. 5; Sp. p. 676; Gaz. vol. 153; p. 119.

Drewell, Heinrich, Charlottenburg, assignor to Schnellsetz-Maschinengesellschaft mit beschränkter Haftung, Berlin, Germany. Type-setting machine. No. 970,694; Sept. 20; Sp. p. 3328; Gaz. vol. 158; p. 572.

Drexler, John, Milwaukee, Wis. Holder for instruments. No. 946,539; Jan. 18; Sp. p. 3445; Gaz. vol. 150; p. 579.

Drexler, William F., Jr. (See Elwell, Grimm, and Drexler.)

Dreyfus, Wilhelm, New York, N. Y. Disinfecting compound. No. 978,142; Dec. 13; Sp. p. 1581; Gaz. vol. 161; p. 280.

Driessche, Louis V., Brussels, Belgium. Heating apparatus. No. 951,060; Mar. 1; Sp. p. 1205; Gaz. vol. 152; p. 198.

Driggers, James E. (See Wallace, William A., assignor.)

Driggs, Charles T., Erie, Pa. Air-brake hose. No. 964,004; July 12; Sp. p. 2170; Gaz. vol. 156; p. 354.

Drill Dust Catcher Company, The. (See Sargent, Martin L., assignor.)

Dringman, Daniel. (See Voll and Dringman.)

Drinkwater, Edgar L., Chicago, Ill. Door or window guard. No. 958,481; May 17; Sp. p. 4529; Gaz. vol. 154; p. 741.

Driscoll, Dan, assignor of one-half to J. F. McDaniel, Waterville, Wash. Device for rounding leather. No. 950,096; Feb. 22; Sp. p. 4925; Gaz. vol. 151; p. 867.

Driscoll, Daniel A. (See Quinn and Clifford, assignors.)

Driskell, Winfield S., assignor of one-third to H. Peters and one-third to E. S. Clarke, Gretna, Nebr. Grain-car door. No. 945,381; Jan. 4; Sp. p. 815; Gaz. vol. 150; p. 127.

Driver, Wilbur B., East Orange, N. J. Alloy for electrical resistances. No. 961,217; June 14; Sp. p. 1984; Gaz. vol. 155; p. 358.

Drobniak, Franz, *et al.* (See Friedberg, Guido, assignor.)

Droege, Frederick J., Covington, Ky. Heating-furnace. No. 960,517; June 7; Sp. p. 560; Gaz. vol. 155; p. 53.

Droge, Bernhard, New York, N. Y. Fly-catcher. No. 950,843; Mar. 1; Sp. p. 816; Gaz. vol. 152; p. 130.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Making printing-plates. No. 952,312; Mar. 15; Sp. p. 3734; Gaz. vol. 152; p. 668.

Droitcour, Michael A., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press delivery-board. No. 952,423; Mar. 15; Sp. p. 3944; Gaz. vol. 152; p. 706.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Inking mechanism for printing-presses. No. 955,833; Apr. 19; Sp. p. 4615; Gaz. vol. 153; p. 797.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Throw-off mechanism for printing-presses. No. 956,315; Apr. 26; Sp. p. 5707; Gaz. vol. 153; p. 994.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Inking apparatus for printing-presses. No. 956,316; Apr. 26; Sp. p. 5713; Gaz. vol. 153; p. 994.

Droitcour, Michael A., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Inking mechanism for printing-presses. No. 960,004; May 31; Sp. p. 7760; Gaz. vol. 154; p. 1307.

Droitcour, Michael A., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing cylinder and plate. No. 960,005; May 31; Sp. p. 7762; Gaz. vol. 154; p. 1308.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Plate-making machine. No. 960,006; May 31; Sp. p. 7764; Gaz. vol. 154; p. 1308.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism for printing-presses. No. 960,007; May 31; Sp. p. 7775; Gaz. vol. 154; p. 1309.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Flexible printing-plate and means for securing the same. No. 960,218; May 31; Sp. p. 8196; Gaz. vol. 154; p. 1380.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Flexible printing-plate. No. 960,219; May 31; Sp. p. 8199; Gaz. vol. 154; p. 1380.

Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Tympan mechanism for printing-presses. No. 966,533; Aug. 9; Sp. p. 1505; Gaz. vol. 157; p. 258.

Droitcour, Michael A., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Matrix. No. 978,824; Dec. 13; Sp. p. 3012; Gaz. vol. 161; p. 511.

Drolet, Frank G. (See Montgomery and Drolet.)

Dröll, Carl F., Heidelberg, Germany. Pyrophoric igniting device for lamps of cycles, automobiles, and the like. No. 961,588; June 14; Sp. p. 2794; Gaz. vol. 155; p. 483.

Dropiowski, Thaddäus, Cracow, Austria-Hungary. Type casting and setting machine. No. 947,175; Jan. 18; Sp. p. 4777; Gaz. vol. 150; p. 788.

Drosin, Alfred. (See Drosin, Henry B., A., and L.)

Drosin, Henry B., A., and L., New York, N. Y. Feed-bag. No. 945,500; Jan. 4; Sp. p. 1071; Gaz. vol. 150; p. 165.

Drosin, Louis. (See Drosin, Henry B., A., and L.)

Drown, Curtis E., Tucson, Ariz. Valve. No. 950,204; Feb. 22; Sp. p. 5155; Gaz. vol. 151; p. 904.

Drown, Curtis E., Tucson, Ariz. Packing-ring. No. 962,820; June 28; Sp. p. 5445; Gaz. vol. 155; p. 952.

Droz, Edward J., Bellevue, assignor to G. W. Prather, Wilkinsburg, Pa. Scoop. No. 952,313; Mar. 15; Sp. p. 3736; Gaz. vol. 152; p. 669.

Drubko, John, Willow River, Minn. Animal-trap. No. 976,789; Nov. 22; Sp. p. 5954; Gaz. vol. 160; p. 1005.

Druck, Charles, Shaw, Oreg. Combination-tool. No. 957,044; May 3; Sp. p. 1173; Gaz. vol. 154; p. 186.

Drucker, Julius, Brünn, Austria-Hungary. Saddle for draft-animals. No. 977,790; Dec. 6; Sp. p. 814; Gaz. vol. 161; p. 127.

Druhe, George W., Oakland, Cal. Fruit-jar. No. 970,896; Sept. 20; Sp. p. 3765; Gaz. vol. 158; p. 642.

Druitt, Percy W., Shepherds Bush, London, England. Apparatus for reducing the length of cast spaces. No. 961,690; June 14; Sp. p. 2985; Gaz. vol. 155; p. 517.

Druliner, George W., Benkelman, Nebr. Kitchen-cabinet. No. 970,025; Sept. 13; Sp. p. 1912; Gaz. vol. 158; p. 325.

Drum, George E., and J. H. Skitt, assignors to said Drum and R. F. Smith, Philadelphia, Pa. Dyeing-machine. No. 973,487; Oct. 25; Sp. p. 4355; Gaz. vol. 159; p. 762.

Drummond, Charles S., London, England. Furnace. No. 964,502; July 19; Sp. p. 3198; Gaz. vol. 156; p. 553.

Drummond, George, Los Angeles, Cal. Oil-gas generator and burner. No. 958,861; May 24; Sp. p. 5331; Gaz. vol. 154; p. 896.

Drummond, George L., Walla Walla, Wash. Proof-press. No. 968,747; Aug. 30; Sp. p. 6226; Gaz. vol. 157; p. 1088.

Drummond, Isaac W., New York, N. Y. Insecticide. No. 960,287; June 7; Sp. p. 95; Gaz. vol. 155; p. 19.

Drury, Clarence M., Bloomsdale, Mo. Combined lock and latch. No. 955,774; Apr. 19; Sp. p. 4493; Gaz. vol. 153; p. 776.

Drury, John, London, England. Crank. No. 958,104; May 17; Sp. p. 3616; Gaz. vol. 154; p. 610.

Drury, William H., Waltham, Mass. Mechanism for weaving. No. 972,349; Oct. 11; Sp. p. 1806; Gaz. vol. 159; p. 318.

Druzbach, Theodor, Hoboken, N. J., assignor of one-half to G. E. Foerster, Brooklyn, N. Y. Disinfector. No. 979,386; Dec. 20; Sp. p. 4243; Gaz. vol. 161; p. 731.

Dryden, William W., assignor to C. E. Troemner, Philadelphia, Pa. Clutch mechanism. No. 974,248; Nov. 1; Sp. p. 373; Gaz. vol. 160; p. 54.

Du Belle, Charles S., Williamsport, Pa. Electrically-operated type-writer. No. 956,798; May 3; Sp. p. 637; Gaz. vol. 154; p. 101.

Du Belle, Charles S., Williamsport, Pa. Type-writer. No. 972,832; Oct. 18; Sp. p. 2870; Gaz. vol. 159; p. 511.

Du Bois, Frederick N., New York, N. Y. Means employed in closing the ends of lead L's by spinning. No. 978,863; Dec. 20; Sp. p. 3099; Gaz. vol. 161; p. 863.

Du Brau, Herman, Baltimore, Md. Painting apparatus. No. 957,501; May 10; Sp. p. 1249; Gaz. vol. 154; p. 372.

Du Brul, Napoleon, Cincinnati, Ohio. Cigar-bunch machine. No. 946,663; Jan. 18; Sp. p. 3694; Gaz. vol. 150; p. 618.

Du Four, Joseph L. M., South Boundbrook, assignor to Flintkote Manufacturing Company, Rutherford, N. J. Roofing. No. 966,178; Aug. 2; Sp. p. 725; Gaz. vol. 157; p. 114.

Du Lany, George W., Omaha, Nebr. Drum. No. 974,647; Nov. 1; Sp. p. 1300; Gaz. vol. 160; p. 200.

Du Pont, Alexis F., and J. T. Thompson, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for nitrating cellulose. No. 979,560; Dec. 27; Sp. p. 4633; Gaz. vol. 161; p. 814.

Du Pont, Ernest, assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Incorporating ingredients of explosives. No. 976,211; Nov. 22; Sp. p. 4675; Gaz. vol. 160; p. 805.

Alphabetical list of patentees—Continued.

Du Pont, Francis I., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for evaporating explosive mixtures. No. 945,109; Jan. 4; Sp. p. 211; Gaz. vol. 150; p. 36.

Du Pont, Francis I., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Producing oxids of nitrogen from the air. No. 948,372; Feb. 8; Sp. p. 1247; Gaz. vol. 151; p. 225.

Du Pont, Francis I., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for producing oxids of nitrogen from the air. No. 950,703; Mar. 1; Sp. p. 521; Gaz. vol. 152; p. 82.

Du Pont, Francis I., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Distributing apparatus. No. 963,470; July 5; Sp. p. 1016; Gaz. vol. 156; p. 154.

Du Pont, Francis I., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for the manufacture of black powder and other explosives. No. 964,550; July 19; Sp. p. 3322; Gaz. vol. 156; p. 568.

Du Pont, Francis I., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Pump. No. 968,599; Aug. 30; Sp. p. 5878; Gaz. vol. 157; p. 1037.

Du Shane, James, South Bend, Ind. Sounder. No. 968,034; Aug. 23; Sp. p. 4662; Gaz. vol. 157; p. 815.

Dubbelde, Jurgen J., West Philadelphia, Pa. Change-delivering machine. No. 978,713; Dec. 13; Sp. p. 2808; Gaz. vol. 161; p. 477.

Dubé, John J., assignor to M. H. Dubé, Chicago, Ill. Combined garbage-burner and water-heater. (Reissue.) No. 13,143; Aug. 16; Sp. p. 4307; Gaz. vol. 157; p. 737.

Dubé, Joseph E., Quebec, Quebec, Canada. Razor-blade holder. No. 971,257; Sept. 27; Sp. p. 4513; Gaz. vol. 158; p. 789.

Dubé, Margaret H. (See Dubé, John J., assignor.) (Reissue.)

Dubert, Harry, Dunkirk, N. Y. Valve-gear. No. 978,143; Dec. 13; Sp. p. 1582; Gaz. vol. 161; p. 280.

Dubourg, Robert H., Shively, Ky. Wheeled hand-cultivator. No. 971,121; Sept. 27; Sp. p. 4213; Gaz. vol. 158; p. 744.

Dubuc, Napoleon, Jr., assignor of one-half to E. L. Kittridge, Milford, N. H. Curb-joint. No. 954,267; Apr. 5; Sp. p. 1209; Gaz. vol. 153; p. 202.

Duc, Henry A., Jr., Charleston, S. C. Apparatus for propelling vessels by hydraulic pressure. No. 958,996; May 24; Sp. p. 5610; Gaz. vol. 154; p. 942.

Ducharme, William, Johnstown, Pa. Combination-tool. No. 951,367; Mar. 8; Sp. p. 1845; Gaz. vol. 152; p. 322.

Ducharme, William, Johnstown, Pa. Wrench. No. 959,322; May 24; Sp. p. 6278; Gaz. vol. 154; p. 1050.

Duchemin, Peter R., Colfax, Wash. Transom-worker. No. 946,020; Jan. 11; Sp. p. 2246; Gaz. vol. 150; p. 373.

Duchemin, Peter R., Colfax, Wash. Punch. No. 955,775; Apr. 19; Sp. p. 4494; Gaz. vol. 153; p. 776.

Duchemin, Peter R., Colfax, Wash. Hose-supporter. No. 961,112; June 14; Sp. p. 1762; Gaz. vol. 155; p. 320.

Duckett, Edward C., and F. B. Lloyd, Spokane, Wash. Gopher-exterminator. No. 957,458; May 10; Sp. p. 2062; Gaz. vol. 154; p. 357.

Duckham, Arthur M., Walden, Little Bookham, England. Machine for discharging and charging gas-retorts or coke-ovens. No. 974,043; Oct. 25; Sp. p. 5514; Gaz. vol. 159; p. 956.

Duckwitz, William F., Cleveland, Ohio. Fuse-plug. No. 959,208; May 24; Sp. p. 6054; Gaz. vol. 154; p. 1012.

Duckworth, Caleb. (See Trenor, John, assignor.)

Duckworth, R. F. (See Hammonds, Green C., assignor.)

Dudeck, Richard A. (See Whistler and Dudeck.)

Dudgeon, Thomas M., Avalon, Pa. Gas-stove. No. 962,752; June 28; Sp. p. 5314; Gaz. vol. 155; p. 928.

Dudley Adding and Billing Machine Company. (See Dudley, George W., assignor.)

Dudley, Charles F. (See Oertly and Dudley.)

Dudley, Frank M., *et al.*, executors. (See Day and Ward.)

Dudley, Frank R., Fitchburg, Mass. Vehicle-wheel. No. 962,010; June 21; Sp. p. 3679; Gaz. vol. 155; p. 647.

Dudley, George W., Staunton, Va. Tabulating mechanism for type-writers. No. 960,854; June 7; Sp. p. 1239; Gaz. vol. 155; p. 207.

Dudley, George W., Staunton, Va., assignor to Numerograph Manufacturing Co., Charleston, W. Va. Adding and recording machine. No. 960,853; June 7; Sp. p. 1235; Gaz. vol. 155; p. 207.

Dudley, George W., Staunton, Va., assignor, by mesne assignments, to Dudley Adding and Billing Machine Company. Adding and recording machine. No. 975,023; Nov. 8; Sp. p. 2146; Gaz. vol. 160; p. 351.

Dudley Implement & Manufacturing Company. (See Dudley, Thomas J., assignor.)

Dudley, Thomas J., assignor to Dudley Implement & Manufacturing Company, Abilene, Tex. Draft appliance. No. 949,525; Feb. 15; Sp. p. 3655; Gaz. vol. 151; p. 636.

Dudley, Willie, Richmond, Va., assignor to M. R. Moore, Washington, D. C. Extensible seat or the like. No. 966,891; Aug. 9; Sp. p. 2297; Gaz. vol. 157; p. 377.

Dudman, Thomas W. (See Barclay, William P., assignor.)

Duemler, John C., South Bethlehem, assignor to H. Brinton & Co., Philadelphia, Pa. Knitting-machine. No. 946,854; Jan. 18; Sp. p. 4132; Gaz. vol. 150; p. 684.

Duesler, Francis H., Schenectady, N. Y. Music binder and carrier. No. 957,459; May 10; Sp. p. 2063; Gaz. vol. 154; p. 358.

Dufault, Arthur, Providence, R. I. Door-securer. No. 976,444; Nov. 22; Sp. p. 5238; Gaz. vol. 160; p. 888.

Dufaux, Armand. (See Dufaux, Henri and A.)

Dufaux, Henri and A., Geneva, Switzerland. Brake for motor-driven cycles and other vehicles. No. 953,126; Mar. 29; Sp. p. 5484; Gaz. vol. 152; p. 1001.

Duff, Charles J., San Bernardino, C. V. Phelps, Rialto, and B. W. Pitts, San Bernandino; said Duff and Pitts assignors to Blue Flame Distillate Burner Company, Los Angeles, Cal. Distillate-burning apparatus. No. 975,221; Nov. 8; Sp. p. 2597; Gaz. vol. 160; p. 419.

Duff, Edward E., Seattle, assignor of one-half to D. V. Ackerman, Mount Vernon, Wash. Trolley-head. No. 976,445; Nov. 22; Sp. p. 5239; Gaz. vol. 160; p. 889.

Duff, Frank. (See Webster and Duff.)

Duff, Jenesse R., New York, N. Y., assignor to General Electric Company. Junction-box. No. 963,879; July 12; Sp. p. 1908; Gaz. vol. 156; p. 314.

Duff Manufacturing Company, The. (See Hylander, Charles E., assignor.)

Duff Remedy Company. (See Dorment, Frank C., assignor.)

Duffey, Otis E., Los Angeles, Cal. Beet-harvester. No. 952,669; Mar. 22; Sp. p. 4506; Gaz. vol. 152; p. 819.

Duffie, George M. (See Preston and Duffie.)

Duffner, Lucas, St. Louis, Mo. Means for controlling draft-air to boiler-furnaces. No. 947,804; Feb. 1; Sp. p. 51; Gaz. vol. 151; p. 11.

Duffy, Alvin R., Manhattan, Kans. Slack-adjuster. No. 970,026; Sept. 13; Sp. p. 1913; Gaz. vol. 158; p. 325.

Duffy, Anthony, Philadelphia, Pa. Internal-combustion engine. No. 951,181; Mar. 8; Sp. p. 1451; Gaz. vol. 152; p. 263.

Duffy, Bernard J. (See Inglis, William B., assignor.)

Duffy, Clarence O., Oakland, Cal. Magazine-holder. No. 968,748; Aug. 30; Sp. p. 6228; Gaz. vol. 157; p. 1089.

Duffy, Francis, Chicago, Ill. Furnace for steam-boilers. No. 977,078; Nov. 29; Sp. p. 6632; Gaz. vol. 160; p. 1130.

Duffy, James A. (See Volk and McGann, assignors.)

Duffy, James E., Chicago, Ill. Whip-lock. No. 965,696; July 26; Sp. p. 5846; Gaz. vol. 156; p. 993.

Duffy, James S., Seattle, Wash. Combined cutting-tool and gage. No. 972,757; Oct. 11; Sp. p. 2707; Gaz. vol. 159; p. 460.

Duffy, Matthew T., Chicago, Ill. Cooking utensil. No. 975,843; Nov. 15; Sp. p. 3890; Gaz. vol. 160; p. 656.

Duffy, Michael, *et al.* (See Cummings, Michael H., assignor.)

Duffy, Michael J., New York, N. Y. Lock-nut. No. 969,092; Aug. 30; Sp. p. 6914; Gaz. vol. 157; p. 1204.

Duffy, Rosa M., *et al.* (See Lenzi, Frank, assignor.)

Dufva, Axel E. (See Dufva, Knut O. and A. E.)

Dufva, Knut O. and A. E., assignors of one-third to F. Widmark, St. Paul, Minn. Grease-cup. No. 956,761; May 3; Sp. p. 561; Gaz. vol. 154; p. 90.

Dugan, Lawrence J., Pittsburg, Pa. Automatic registering device for street-cars. No. 954,725; Apr. 12; Sp. p. 2225; Gaz. vol. 153; p. 386.

Dugar, Delano H., Wilkinsburg, Pa., assignor to The Westinghouse Machine Company. Blade-tie. No. 973,639; Oct. 25; Sp. p. 4686; Gaz. vol. 159; p. 814.

Duguid, Robert C., assignor to D. Ward, Detroit, Mich. Vehicle-wheel. No. 953,780; Apr. 5; Sp. p. 194; Gaz. vol. 153; p. 36.

Duhl, Daniel, Wellston, assignor of one-half to O. M. Duhl, Glenroy, Ohio. Harrow and clod-crusher. No. 978,714; Dec. 13; Sp. p. 2816; Gaz. vol. 161; p. 478.

Duhl, Oscar M. (See Duhl, Daniel, assignor.)

Duitch, Joseph, Farmington, W. Va. Driving mechanism. No. 971,364; Sept. 27; Sp. p. 4713; Gaz. vol. 158; p. 823.

Dujardin, Guillaume, Huy, Belgium. Concrete sewer. No. 950,149; Feb. 22; Sp. p. 5026; Gaz. vol. 151; p. 884.

Dujardin, Guillaume, Huy, Belgium. Reinforced-concrete beam. No. 953,024; Mar. 29; Sp. p. 5244; Gaz. vol. 152; p. 967.

Duke, Holmes, Beaumont, Tex. Oil-burner. No. 945,922; Jan. 11; Sp. p. 2045; Gaz. vol. 150; p. 340.

Duke, Holmes, Beaumont, Tex. Oil-burning system. No. 947,890; Feb. 1; Sp. p. 242; Gaz. vol. 151; p. 40.

Duke, Joseph, Seattle, Wash. Bed-frame. No. 954,563; Apr. 12; Sp. p. 1850; Gaz. vol. 153; p. 331.

Dukesmith, Frank H., Meadville, Pa., assignor to The General Railway Equipment Company. Air-brake signaling device. No. 959,122; May 24; Sp. p. 5871; Gaz. vol. 154; p. 984.

Dukesmith, Frank H., Meadville, Pa., assignor to The General Railway Equipment Company. Air-brake-testing apparatus. No. 959,123; May 24; Sp. p. 5872; Gaz. vol. 154; p. 984.

Dukesmith, Frank H., Meadville, Pa., assignor to The General Railway Equipment Company. Apparatus for testing air-brakes. No. 959,124; May 24; Sp. p. 5876; Gaz. vol. 154; p. 984.

Alphabetical list of patentees—Continued.

Dukesmith, Frank H., Meadville, Pa., assignor to J. H. Iselin, New York, N. Y. Air-brake-testing system. No. 959,209; May 24; Sp. p. 6056; Gaz. vol. 154; p. 1012.
Dula, James G. (See Graham and Dula.)
Dull, Andrew J. (See Weatherby, Joseph, Jr., assignor.)
Dull, Egbert R. (See Davis, Ernest W., assignor.)
Dull, Egbert R., Chicago, Ill. Gas-generator. No. 947,572; Jan. 25; Sp. p. 5737; Gaz. vol. 150; p. 953.
Duller, David M., Houston, Tex. Form for building concrete structures. No. 970,998; Sept. 20; Sp. p. 3948; Gaz. vol. 158; p. 675.
Dulles, William. (See Condict, George H., assignor.)
Dumars, Horace, Glen Ridge, N. J. Plant for the handling and utilization of liquid air and the like. No. 954,268; Apr. 5; Sp. p. 1211; Gaz. vol. 153; p. 203.
Dumelin, Hans. (See Meier and Dumelin.)
Dumke, William O., Manitowoc, Wis. Retouching-frame. No. 969,047; Aug. 30; Sp. p. 6819; Gaz. vol. 157; p. 1188.
Dummert, Horace W. (See Thoms and Dummert.)
Dumont, Joseph, assignor to O. Christian, Gardner, Mass. Weather-strip. No. 975,337; Nov. 8; Sp. p. 2828; Gaz. vol. 160; p. 458.
Dumont, Peter, Dunellen, N. J. Door-check. No. 947,805; Feb. 1; Sp. p. 52; Gaz. vol. 151; p. 11.
Dun Lany, William P., assignor to The Continental Manufacturing Company, Cleveland, Ohio. Speedometer. No. 976,054; Nov. 15; Sp. p. 4299; Gaz. vol. 160; p. 729.
Dunavant, Everett S., Louisville, Ky., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Mold and operating mechanism for type-machines. No. 959,323; May 24; Sp. p. 6280; Gaz. vol. 154; p. 1051.
Dunaway, John F. (See Posey, James A., assignor.)
Dunaway, Lyszander, Scottdale, Ga., assignor to Draper Company, Hopedale, Mass. Thin-place detector for filling-replenishing looms. No. 972,833; Oct. 18; Sp. p. 2873; Gaz. vol. 159; p. 512.
Dunbar, Howard R., Canton, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Automatic pressure-controller. No. 977,079; Nov. 29; Sp. p. 6634; Gaz. vol. 160; p. 1130.
Dunbar, Thomas, assignor to The Pullman Company, Chicago, Ill. Dental lavatory. No. 955,143; Apr. 19; Sp. p. 3122; Gaz. vol. 153; p. 560.
Dunbar, Thomas, assignor to The Pullman Company, Chicago, Ill. Antitelescoping construction for cars. No. 956,799; May 3; Sp. p. 644; Gaz. vol. 154; p. 102.
Dunbar, Thomas, assignor to The Pullman Company, Chicago, Ill. Washstand. No. 965,164; July 26; Sp. p. 4674; Gaz. vol. 156; p. 810.
Dunbar, William W., Alamo Mining District, Ariz., assignor of one-half to A. P. Maginnis, Los Angeles, Cal. Refrigerator. No. 976,446; Nov. 22; Sp. p. 5240; Gaz. vol. 160; p. 889.
Duncan, Arthur L., Oakland, Cal. Combined washing and conveying apparatus. No. 962,628; June 28; Sp. p. 5058; Gaz. vol. 155; p. 884.
Duncan, Arthur L., Oakland, Cal. Automatic weighing-scale. No. 968,749; Aug. 30; Sp. p. 6229; Gaz. vol. 157; p. 1089.
Duncan, Arthur T., assignor of one-half to J. M. Williams, Clinton, Mo. Display-cabinet. No. 977,080; Nov. 29; Sp. p. 6635; Gaz. vol. 160; p. 1131.
Duncan, Charles H., New York, N. Y. Exhibiting apparatus. No. 947,058; Jan. 18; Sp. p. 4554; Gaz. vol. 150; p. 751.
Duncan, Charles H., Erie, Pa. Closet-flushing device. No. 958,734; May 24; Sp. p. 5021; Gaz. vol. 154; p. 850.
Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)
Duncan, George W., Audubon, N. J. Poultry-fount. No. 975,607; Nov. 15; Sp. p. 3403; Gaz. vol. 160; p. 578.
Duncan, John C., Birmingham, Ala. Tobacco-moistener. No. 950,378; Feb. 22; Sp. p. 5494; Gaz. vol. 151; p. 962.
Duncan, John H., Ithaca, N. Y. Drying apparatus. No. 951,559; Mar. 8; Sp. p. 2231; Gaz. vol. 152; p. 387.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing-plate. No. 950,747; Mar. 1; Sp. p. 620; Gaz. vol. 152; p. 99.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing-plate. No. 950,748; Mar. 1; Sp. p. 622; Gaz. vol. 152; p. 99.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Machine for making printing-plates. No. 955,116; Apr. 12; Sp. p. 3049; Gaz. vol. 153; p. 518.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Type-setting case. No. 956,691; May 3; Sp. p. 422; Gaz. vol. 154; p. 67.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Type-holder. No. 956,692; May 3; Sp. p. 425; Gaz. vol. 154; p. 67.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing-plate. No. 959,725; May 31; Sp. p. 7124; Gaz. vol. 154; p. 1209.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Type setting and distributing machine. No. 963,692; July 5; Sp. p. 1458; Gaz. vol. 156; p. 228.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 964,095; July 12; Sp. p. 2358; Gaz. vol. 156; p. 387.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Inking mechanism. No. 970,027; Sept. 13; Sp. p. 1914; Gaz. vol. 158; p. 325.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Ribbon-feeding mechanism. No. 970,028; Sept. 13; Sp. p. 1917; Gaz. vol. 158; p. 326.
Duncan & Miller Company. (See Miller, John E., assignor.)
Duncan, Sidney M., assignor of one-half to S. M. Blaylock, Eastend, Tenn. Automatic train-stop. No. 955,059; Apr. 12; Sp. p. 2957; Gaz. vol. 153; p. 501.
Duncan, Thomas R. (See Allen, Charles E., assignor.)
Duncan, Thomas R., Richmond, Cal. Rail-switch. No. 976,560; Nov. 22; Sp. p. 5487; Gaz. vol. 160; p. 927.
Duncan, William M. (See Hanes and Staples, assignors.)
Duncan, William M., Alton, Ill. Gate for mechanical stokers. No. 951,499; Mar. 8; Sp. p. 2115; Gaz. vol. 152; p. 366.
Duncan, William M., Alton, Ill. Ignition-arch for furnaces. No. 958,379; May 17; Sp. p. 4327; Gaz. vol. 154; p. 706.
Duncan, William M., Alton, Ill. Mechanical stoker. No. 963,532; July 5; Sp. p. 1148; Gaz. vol. 156; p. 175.
Duncan, William W., Watertown, Mass. Boot tree or last. No. 950,379; Feb. 22; Sp. p. 5495; Gaz. vol. 151; p. 962.
Duncan, William W., and N. E. Tousley, Watertown, assignors to Hood Rubber Company, Boston, Mass. Vulcanizing rubber goods. No. 952,984; Mar. 22; Sp. p. 5151; Gaz. vol. 152; p. 925.
Duncan-Woolworth Company. (See Child, Edmund S. J., assignor.)
Duncanson, William A., Boston, Mass. Surge-reliever or safety device for tow-lines. No. 957,315; May 10; Sp. p. 1774; Gaz. vol. 154; p. 310.
Duncker, William F., Washington Boro, Pa. Phosphate-mill. No. 951,368; Mar. 8; Sp. p. 1848; Gaz. vol. 152; p. 323.
Duncombe, Tyrrell H., St. Thomas, Ontario, Canada. Coin-controlled vending apparatus. No. 953,739; Apr. 5; Sp. p. 115; Gaz. vol. 153; p. 23.
Dunder, Anna M., Wilber, Nebr. Massaging implement. No. 974,367; Nov. 1; Sp. p. 658; Gaz. vol. 160; p. 99.
Dundon, John S., *et al.* (See Geddes, William, assignor.)
Dundon, Patrick F., San Francisco, Cal. Wood-preserving apparatus. No. 952,887; Mar. 22; Sp. p. 4964; Gaz. vol. 152; p. 893.
Dundon, Patrick F., San Francisco, Cal. Creosoting wood. No. 952,888; Mar. 22; Sp. p. 4965; Gaz. vol. 152; p. 893.
Duner, John C., Wheaton, Ill. Door. No. 963,752; July 12; Sp. p. 1607; Gaz. vol. 156; p. 270.
Dunfee, Charles H., Denver, Colo., assignor to The Dunfee Electric Company. Multiple-fuse block. No. 951,305; Mar. 8; Sp. p. 1716; Gaz. vol. 152; p. 302.
Dunfee Electric Company, The. (See Dunfee, Charles H., assignor.)
Dunfee, Hod C., Clarksburg, W. Va. Nursing-bottle. No. 954,564; Apr. 12; Sp. p. 1851; Gaz. vol. 153; p. 331.
Dungan, Elmer E., assignor of one-half to C. M. Klump, Philadelphia, Pa. Clock. No. 970,198; Sept. 13; Sp. p. 2261; Gaz. vol. 158; p. 383.
Dungan, Elmer E., and C. M. Klump, Philadelphia, Pa. Clock. No. 964,005; July 12; Sp. p. 2171; Gaz. vol. 156; p. 355.
Dungan, George W., Strasburg, Pa. Jar-closure. No. 959,848; May 31; Sp. p. 7393; Gaz. vol. 154; p. 1252.
Dunham, Bert G., assignor to American Automatic Telephone Company, Rochester, N. Y. Electromagnet. No. 978,992; Dec. 20; Sp. p. 3399; Gaz. vol. 161; p. 598.
Dunham Company, The. (See Dunham, Wiley J., assignor.)
Dunham, George H. (See Munger, James V., assignor.)
Dunham, George W., assignor to Olds Motor Works, Lansing, Mich. Controller for motor-vehicles. No. 968,750; Aug. 30; Sp. p. 6232; Gaz. vol. 157; p. 1090.
Dunham, George W., assignor to Olds Motor Works, Lansing, Mich. Valve-actuating rod. No. 970,999; Sept. 20; Sp. p. 3950; Gaz. vol. 158; p. 675.
Dunham, Henry V., Bainbridge, N. Y., assignor to Casein Company of America. Paper coating and sizing composition and process. No. 962,498; June 28; Sp. p. 4771; Gaz. vol. 155; p. 840.
Dunham, Newsom, Fulton, Mo. Gun. No. 978,144; Dec. 13; Sp. p. 1583; Gaz. vol. 161; p. 281.
Dunham, Wiley J., assignor to The Dunham Company, Berea, Ohio. Handle for lawn-rollers and the like. No. 967,349; Aug. 16; Sp. p. 3241; Gaz. vol. 157; p. 561.
Dunham, William G., Brantford, Ontario, Canada. Journal-box. No. 968,033; Aug. 23; Sp. p. 4663; Gaz. vol. 157; p. 814.
Dunham, William G., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 962,556; June 28; Sp. p. 4916; Gaz. vol. 155; p. 861.
Dunivant, Robert L., Fort Worth, Tex. Rail-bond. No. 979,448; Dec. 27; Sp. p. 4382; Gaz. vol. 161; p. 776.
Dunkel, Rudolph, Boston, Mass. Steam-generator. No. 958,606; May 17; Sp. p. 4773; Gaz. vol. 154; p. 783.
Dunkelberger, Joseph M. (See Cruikshank, John, assignor.)
Dunkerly, Harry, Houston, Tex. Hopper-scale. No. 953,127; Mar. 29; Sp. p. 5485; Gaz. vol. 152; p. 1001.

Alphabetical list of patentees—Continued.

Dunkerly, Harry, Houston, Tex. Weighing and filling machine. No. 977,378; Nov. 29; Sp. p. 7271; Gaz. vol. 160; p. 1234.
Dunkle, George S., and M. M. Tawney, Harrisburg, Pa. Lock-nut. No. 973,640; Oct. 25; Sp. p. 4687; Gaz. vol. 159; p. 814.
Dunkle, Samuel K., assignor of one-eighth to H. C. Babb and one-eighth to M. Agnic, Wheeling, W. Va. Foot-guard. No. 945,501; Jan. 4; Sp. p. 1072; Gaz. vol. 150; p. 166.
Dunkley Company. (See Dunkley, Samuel J., assignor.)
Dunkley, Samuel J., Kalamazoo, Mich., assignor to Dunkley Company, Chicago, Ill. Cherry-pitting machine. No. 974,759; Nov. 1; Sp. p. 1541; Gaz. vol. 160; p. 237.
Dunklin, Walter J., and G. R. Marley, Greenville, Ala. Axle. No. 976,855; Nov. 29; Sp. p. 6112; Gaz. vol. 160; p. 1052.
Dunlap, Charles A., Vailsburg, N. J. Fountain. No. 949,267; Feb. 15; Sp. p. 3121; Gaz. vol. 151; p. 550.
Dunlap, George R., and F. E. Simons, Startup, Wash. Spark-arrester. No. 955,504; Apr. 19; Sp. p. 3899; Gaz. vol. 153; p. 684.
Dunlap, Henry W., and J. S. Lumbley, Axtell, Tex. Safety-elevator. No. 951,680; Mar. 8; Sp. p. 2469; Gaz. vol. 152; p. 428.
Dunlap, John A. (See Goehst and Dunlap.)
Dunlap, Robert A., Sedalia, Mo. Window-ventilator and storm-shield. No. 948,417; Feb. 8; Sp. p. 1342; Gaz. vol. 151; p. 240.
Dunlap, William P., Maquoketa, Iowa. Wagon-reach adjuster. No. 959,483; May 31; Sp. p. 6619; Gaz. vol. 154; p. 1129.
Dunlavy, Thoron F. (See Reese and Dunlavy.)
Dunlevy, Daisy, Scottsburg, Ind. Fireproof wall. No. 951,681; Mar. 8; Sp. p. 2470; Gaz. vol. 152; p. 428.
Dunlevy, George M., New Cumberland, W. Va. Keyhole-guard. No. 971,122; Sept. 27; Sp. p. 4215; Gaz. vol. 158; p. 744.
Dunlop, James, Dennistoun, Glasgow, Scotland, Apparatus for transmitting power. No. 965,285; July 26; Sp. p. 4924; Gaz. vol. 156; p. 849.
Dunlop, John C., Minier, Ill. Hand-car. No. 949,418; Feb. 15; Sp. p. 3454; Gaz. vol. 151; p. 603.
Dunlop, Robert R., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Electric brake. No. 973,926; Oct. 25; Sp. p. 5269; Gaz. vol. 159; p. 914.
Dunmire, William A., Ruffs Dale, Pa. Hoisting device. No. 961,717; June 14; Sp. p. 3038; Gaz. vol. 155; p. 526.
Dunn, Charles. (See Martling and Dunn.)
Dunn, Charles G. (See Argles, Guy A. L., assignor.)
Dunn Edge Tool Company. (See Dunn, Reuben W., assignor.)
Dunn, Frank B., Conneaut, Ohio. Brick-cutting machine. No. 967,350; Aug. 16; Sp. p. 3241; Gaz. vol. 157; p. 562.
Dunn, George F., Brockton, assignor to W. B. Arnold, Plymouth, Mass. Welt for boots and shoes. No. 963,694; July 5; Sp. p. 1468; Gaz. vol. 156; p. 228.
Dunn, George R., San Pedro, Cal. Trolley-car-pole attachment. No. 971,494; Sept. 27; Sp. p. 4942; Gaz. vol. 158; p. 865.
Dunn, John, Lookeba, Okla. Barn-door latch. No. 956,054; Apr. 26; Sp. p. 5116; Gaz. vol. 153; p. 903.
Dunn, John F., New York, N. Y. Buckle. No. 950,901; Mar. 1; Sp. p. 925; Gaz. vol. 152; p. 148.
Dunn, John F., New York, N. Y. Belt-buckle. No. 980,077; Dec. 27; Sp. p. 5747; Gaz. vol. 161; p. 988.
Dunn, Joseph B., Baltimore, Md. Tile. No. 972,519; Oct. 11; Sp. p. 2194; Gaz. vol. 159; p. 379.
Dunn, Joseph E., Philadelphia, Pa. Steam-separator. No. 970,477; Sept. 20; Sp. p. 2844; Gaz. vol. 158; p. 497.
Dunn, Joseph E., assignor to American Evaporator Company, Philadelphia, Pa. Evaporator. No. 971,258; Sept. 27; Sp. p. 4514; Gaz. vol. 158; p. 789.
Dunn, Joseph E., assignor to American Evaporator Company, Philadelphia, Pa. Evaporator. No. 978,993; Dec. 20; Sp. p. 3400; Gaz. vol. 161; p. 598.
Dunn, Matthew E., New York, N. Y. Pavement. No. 978,994; Dec. 20; Sp. p. 3401; Gaz. vol. 161; p. 598.
Dunn, Reuben W., Waterville, assignor to Dunn Edge Tool Company, Oakland, Me. Bush-hook. No. 961,218; June 14; Sp. p. 1986; Gaz. vol. 155; p. 358.
Dunn, William, Wheatland, Pa. Mine-ventilating apparatus. No. 963,002; June 28; Sp. p. 5787; Gaz. vol. 155; p. 1013.
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Steel structure. No. 974,779; Nov. 8; Sp. p. 1591; Gaz. vol. 160; p. 267.
Dunn, William L., Gaviota, Cal. Combination casing-wrench. No. 958,698; May 17; Sp. p. 4944; Gaz. vol. 154; p. 812.
Dunn, William L., Cleveland, Ohio. Steam-generator for cooking purposes. No. 963,695; July 5; Sp. p. 1471; Gaz. vol. 156; p. 228.
Dunn, William L., Piru, Cal. Bushed combination casing-wrench. No. 968,454; Aug. 23; Sp. p. 5560; Gaz. vol. 157; p. 959.
Dunn, William R., Easton, Pa. Mechanism for feeding pulverized coal. No. 954,944; Apr. 12; Sp. p. 2734; Gaz. vol. 153; p. 463.
Dunne, John W., assignor to Blair Atholl Aeroplane Syndicate, Limited, London, England. Aeroplane. No. 975,403; Nov. 15; Sp. p. 2976; Gaz. vol. 160; p. 506.
Dunne, Patrick. (See Holbrook, Lucius R., assignor.)
Dunne, Ralph, Dunedin, New Zealand. Miter-box. No. 957,871; May 17; Sp. p. 2908; Gaz. vol. 154; p. 527.
Dunnigan, James W., Altoona, Pa. Paper-bag holder. No. 950,380; Feb. 22; Sp. p. 5496; Gaz. vol. 151; p. 962.
Dunning, James L., Clayton, Mo. Match-safe. No. 949,223; Feb. 15; Sp. p. 3011; Gaz. vol. 151; p. 535.
Dunning, James L., Clayton, Mo. Screw-driver. No. 950,318; Feb. 22; Sp. p. 5382; Gaz. vol. 151; p. 944.
Dunning, Parker, Schenectady, N. Y., assignor to General Electric Company. Duplex two-pole switch. No. 945,923; Jan. 11; Sp. p. 2046; Gaz. vol. 150; p. 340.
Dunning, Parker, Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling device. No. 970,478; Sept. 20; Sp. p. 2846; Gaz. vol. 158; p. 497.
Dunning, Robert A., Yarmouth, Me., assignor to K. Shaffer, trustee, Boston, Mass. Sponge-sheet. No. 960,855; June 7; Sp. p. 1243; Gaz. vol. 155; p. 207.
Dunning, William E., assignor to The McCaskey Register Company, Alliance, Ohio. Pad-holder. No. 969,775; Sept. 13; Sp. p. 1358; Gaz. vol. 158; p. 238.
Dunnock, John L., Baltimore, Md. Shaker-bottle. No. 965,165; July 26; Sp. p. 4676; Gaz. vol. 156; p. 810.
Dunphy, James A., Groton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeleting-machine. No. 964,626; July 19; Sp. p. 3484; Gaz. vol. 156; p. 596.
Dunphy, John. (See Feeman, Edmund L., assignor.)
Dunstan, James H., Susanville, Oreg. Combination-tool. No. 966,321; Aug. 2; Sp. p. 993; Gaz. vol. 157; p. 160.
Dunstone, James, Dollar Bay, Mich. Treating metallic slimes. No. 956,800; May 3; Sp. p. 645; Gaz. vol. 154; p. 102.
Duntley, J. W. (See Westaway, Walter C., assignor.)
Duntley, John W., *et al.* (See Johantgen, Oliver D., assignor.)
Duntley, William L., Lynn, Mass. Milk-jar box. No. 967,177; Aug. 16; Sp. p. 2900; Gaz. vol. 157; p. 502.
Duntley, William O., *et al.* (See Johantgen, Oliver D., assignor.)
Dunton, Addis J., *et al.* (See Caughrean, George H., assignor.)
Dunton, Addis J., assignor of one-half to C. J. Clemensson, Ketchikan, Alaska. Automatic clutch and releasing mechanism for cables. No. 972,685; Oct. 11; Sp. p. 2551; Gaz. vol. 159; p. 435.
Dunton, George E., New York, N. Y. Apparatus for backing electrotype-plates. No. 976,856; Nov. 29; Sp. p. 6113; Gaz. vol. 160; p. 1052.
Dunton, John C., Grand Rapids, Mich. Concrete-molding machine. No. 949,886; Feb. 22; Sp. p. 4441; Gaz. vol. 151; p. 794.
Dunton, John C., Grand Rapids, Mich. Manufacturing brick. No. 958,997; May 24; Sp. p. 5614; Gaz. vol. 154; p. 943.
Dunwoodie, David, and F. J. Dunwoody, Denver, Colo. Powder-receptacle. No. 963,214; July 5; Sp. p. 487; Gaz. vol. 156; p. 67.
Dunwoody, Foster J. (See Dunwoodie and Dunwoody.)
Dunwoody, Foster J., Denver, Colo. Pulverized-soap container and dispenser. No. 970,479; Sept. 20; Sp. p. 2848; Gaz. vol. 158; p. 498.
Dupee, John C., Chicago, Ill., assignor of one-half to The Padden Gas and Electric Company, New Hampton, Iowa. Automatic cut-off. No. 977,858; Dec. 6; Sp. p. 956; Gaz. vol. 161; p. 150.
Dupell, Frank G., New York, N. Y. Toaster, heater, and warmer. No. 969,093; Aug. 30; Sp. p. 6916; Gaz. vol. 157; p. 1204.
Dupire, Charles, *et al.* (See Lafayette, Alphonse J., Jr., assignor.)
Duplex Metals Company. (See Monnot, John F., assignor.)
Duplex Metals Company. (See Page, William M., assignor.)
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)
Duplex Printing Press Company. (See Pettigrew, Charles H., assignor.)
Duplex Printing and Ruling Machine Company, The. (See Panter, William, assignor.)
Duplex Rubber Company, The. (See Kussart, Jacob, assignor.)
Dupont, John B. P., Springfield, Mass. Guard for chimney-thimbles. No. 958,482; May 17; Sp. p. 4530; Gaz. vol. 154; p. 742.
Dupont, Joseph. (See Hodgkinson, Percy W., assignor.)
Dupont, Louis H., Nashville, Tenn. Combination-padlock. No. 972,171; Oct. 11; Sp. p. 1437; Gaz. vol. 159; p. 257.
Dupont, Louis H., Nashville, Tenn. Vending-machine. No. 972,350; Oct. 11; Sp. p. 1812; Gaz. vol. 159; p. 318.
Dupré, Wilfred, Worcester, Mass. Culinary implement. No. 967,351; Aug. 16; Sp. p. 3242; Gaz. vol. 157; p. 562.
Dupree, James, Chicago, Ill. Hoop. No. 975,679; Nov. 15; Sp. p. 3575; Gaz. vol. 160; p. 602.
Duprey, Charles A., Mount Clemens, Mich. Pitchfork attachment. No. 976,348; Nov. 22; Sp. p. 5024; Gaz. vol. 160; p. 853.

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Dupuis, Charles, Vincennes, France. Projection apparatus. No. 957,502; May 10; Sp. p. 2151; Gaz. vol. 154; p. 372.
Dupuis, Eugene A., New York, N. Y. Stop-watch. No. 972,520; Oct. 11; Sp. p. 2194; Gaz. vol. 159; p. 379.
Dupuis, Joseph, assignor of one-half to I. Coulombe, Fall River, Mass. Extension fire-ladder. No. 967,116; Aug. 9; Sp. p. 2776; Gaz. vol. 157; p. 455.
Dupuis, Will B. (See Wolary and Dupuis.)
Duquette, Fredrick, Nashwauk, Minn. Shoe-lacing. No. 963,696; July 5; Sp. p. 1474; Gaz. vol. 156; p. 229.
Duquette, Thomas. (See Gustafson and Duquette.)
Duram, Arthur E., Chicago, Ill. Valve for steam-traps and the like. No. 976,055; Nov. 15; Sp. p. 4301; Gaz. vol. 160; p. 730.
Durand, Arthur F., Chicago, Ill. Safety-razor. No. 958,699; May 17; Sp. p. 4945; Gaz. vol. 154; p. 812.
Durand, Edwin E., Beverly, Mass. Shoe-form inserter. No. 960,518; June 7; Sp. p. 563; Gaz. vol. 155; p. 93.
Durand, Leopold, Paris, France, assignor of one-half to R. A. L. Lehmann, London, England. Means for cooling the cylinders of internal-combustion engines. No. 967,117; Aug. 9; Sp. p. 2778; Gaz. vol. 157; p. 455.
Durand, Nelson C., East Orange, and A. M. Seeley, Newark, assignors to New Jersey Patent Company, West Orange, N. J. Carton for phonograph record-cylinders. No. 962,821; June 28; Sp. p. 5446; Gaz. vol. 155; p. 952.
Durand, Wallace, Newark, N. J. Umbrella. No. 963,753; July 12; Sp. p. 1609; Gaz. vol. 156; p. 271.
Duranold Mfg. Co. (See Jegge, Emil G., assignor.)
Durant, Henry T., H. L. Sulman, and W. Hommel, London, England. Wet process for the treatment of ores. No. 966,389; Aug. 2; Sp. p. 1125; Gaz. vol. 157; p. 181.
Durant, Samuel T., deceased, and G. Gunderson, Mountain Home, Idaho; W. C. Howie, administrator, assignor to T. Durant. Sage-brush-grubbing machine. No. 978,118; Dec. 6; Sp. p. 1500; Gaz. vol. 161; p. 241.
Durant, Thecla. (See Durant and Gunderson, assignors.)
Durant, William H., Concord, N. H. Sliding-door fastener. No. 953,740; Apr. 5; Sp. p. 116; Gaz. vol. 153; p. 23.
Durant, William H., Concord, N. H. Brake mechanism for cars. No. 976,991; Nov. 29; Sp. p. 6445; Gaz. vol. 160; p. 1100.
Durban, Thomas E., Erie, Pa. Steam-boiler. No. 965,883; Aug. 2; Sp. p. 69; Gaz. vol. 157; p. 14.
Durbrow, George W., Indio, Cal. Filtering apparatus. No. 966,179; Aug. 2; Sp. p. 726; Gaz. vol. 157; p. 114.
Durbrow, George W., Indio, Cal. Sanitary filtering-faucet. No. 966,180; Aug. 2; Sp. p. 729; Gaz. vol. 157; p. 115.
Durbrow, George W., Los Angeles, Cal. Filtering device. No. 966,181; Aug. 2; Sp. p. 731; Gaz. vol. 157; p. 115.
Durbyelle, Loa, San Francisco, Cal. Hair-curler. No. 975,222; Nov. 8; Sp. p. 2599; Gaz. vol. 160; p. 419.
Durdin, Augustus C., Jr., assignor to Thomas & Smith, Chicago, Ill. Valve for cellar-drainers. No. 972,441; Oct. 11; Sp. p. 1995; Gaz. vol. 159; p. 350.
Duret, Pierre, Marseille, France. Bolt-and-latch lock. No. 954,427; Apr. 12; Sp. p. 1542; Gaz. vol. 153; p. 283.
Durfee, Lydia. (See Bean, Joseph A., assignor.)
Durham Duplex Razor Company. (See Durham, Thomas C., assignor.)
Durham, John F., McKittrick, Cal. Pump for wells. No. 958,862; May 24; Sp. p. 5333; Gaz. vol. 154; p. 897.
Durham, Thomas C., New York, N. Y., assignor to Durham Duplex Razor Company. Razor. No. 951,306; Mar. 8; Sp. p. 1718; Gaz. vol. 152; p. 303.
Durham, Thomas C., assignor to Durham Duplex Razor Company, New York, N. Y. Safety-razor. No. 953,989; Apr. 5; Sp. p. 613; Gaz. vol. 153; p. 109.
Durichen, Georg, Minneapolis, Minn. Nether garment. No. 947,891; Feb. 1; Sp. p. 244; Gaz. vol. 151; p. 40.
Durie, James, assignor of one-half to J. Dusty, Toronto, Ontario, Canada. Rail-breaking device. No. 969,256; Sept. 6; Sp. p. 229; Gaz. vol. 158; p. 37.
Durkee, Charles D., New York, N. Y. Suction-pump terminal. No. 954,269; Apr. 5; Sp. p. 1215; Gaz. vol. 153; p. 203.
Durkee, Frederick M., Newton, and J. B. Millet, Boston, Mass., assignors to Submarine Signal Company, Waterville, Me. Sound-transmitter. No. 966,534; Aug. 9; Sp. p. 1510; Gaz. vol. 157; p. 259.
Durkee, John, Clay Center, Nebr. Hay-stacker. No. 958,911; May 24; Sp. p. 5457; Gaz. vol. 154; p. 914.
Durman, Michael E., Detroit, Mich. Rotary pump. No. 978,715; Dec. 13; Sp. p. 2818; Gaz. vol. 161; p. 478.
Durrant, George, Manchester, England. Cloth-stretching machine. No. 971,123; Sept. 27; Sp. p. 4216; Gaz. vol. 158; p. 745.
Durst, Mark, Marcus, Iowa. Feed-regulator. No. 952,562; Mar. 22; Sp. p. 4263; Gaz. vol. 152; p. 781.
Duryea, Charles E., Reading, Pa. Internal-combustion engine. No. 949,758; Feb. 22; Sp. p. 4136; Gaz. vol. 151; p. 748.
Duryea, Charles R., Amityville, assignor to James Pott & Co., New York, N. Y. Binding for books. No. 951,436; Mar. 8; Sp. p. 1983; Gaz. vol. 152; p. 345.
Duryea, James F., and W. M. Remington, Springfield, Mass. Clutch mechanism. No. 957,602; May 10; Sp. p. 2337; Gaz. vol. 154; p. 406.
Dusek, Henry, Cameron, Tex. Paddle-wheel. No. 949,887; Feb. 22; Sp. p. 4445; Gaz. vol. 151; p. 794.
Dushane, James. (See Cook and Dushane.)
Dusinberre, George B., Cleveland, Ohio. Connecting-clip. No. 963,425; July 5; Sp. p. 929; Gaz. vol. 156; p. 138.
Dustan, Frederick W., Clarkston, Wash. Fruit-shipping box. No. 960,288; June 7; Sp. p. 97; Gaz. vol. 155; p. 19.
Dustin, John F., assignor of one-half to J. W. Stevenson, Fulton, N. Y. Electromechanical warp stop-motion for looms. No. 974,557; Nov. 1; Sp. p. 1111; Gaz. vol. 160; p. 168.
Dusto Mfg. Co., The. (See Whitehouse, John N., assignor.)
Dusty, James. (See Durie, James, assignor.)
Dutcher, Frank, Versailles, Pa. Making fiber fusee-caps. No. 950,381; Feb. 22; Sp. p. 5497; Gaz. vol. 151; p. 962.
Dutchess Tool Company. (See Bachman, Harry M., assignor.)
Dutchess Tool Company. (See Van Houten, Frank H., assignor.)
Dutchess Tool Company. (See Van Houten and Hanna, assignors.)
Dutelle, Joseph M., assignor of one-half to B. Lemieux, West Rutland, Vt. Draft-rigging. No. 965,446; July 26; Sp. p. 5287; Gaz. vol. 156; p. 904.
Dutemple, William R., Cranston, R. I. Cigar-tip cutter. No. 950,510; Mar. 1; Sp. p. 104; Gaz. vol. 152; p. 17.
Dutilleul, Alfred L., Paris, France. Pad-forming machine. No. 965,378; July 26; Sp. p. 5133; Gaz. vol. 156; p. 880.
Dutton, Burton M., assignor of one-half to W. H. Oxenham, Richmond, Va. Electric hammer. No. 962,499; June 28; Sp. p. 4772; Gaz. vol. 155; p. 841.
Dutton, Charles F., Jr., Cleveland, Ohio. Projection-lantern slide-holder. No. 951,417; Mar. 8; Sp. p. 1952; Gaz. vol. 152; p. 339.
Dutton, Charles F., Jr., Cleveland, Ohio. Convertible projection-lantern. No. 951,418; Mar. 8; Sp. p. 1952; Gaz. vol. 152; p. 339.
Dutton, Charles F., Jr., Cleveland, Ohio. Projection-lantern. No. 960,519; June 7; Sp. p. 564; Gaz. vol. 155; p. 93.
Dutton, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Emergency governing mechanism for turbines. No. 960,289; June 7; Sp. p. 98; Gaz. vol. 155; p. 20.
Duval, Henri, Montreal, Quebec, Canada. Friction let-off for looms. No. 966,892; Aug. 9; Sp. p. 2299; Gaz. vol. 157; p. 377.
Duvall, Stanley A., South Bend, Ind. Telephone-transmitter. No. 945,023; Jan. 4; Sp. p. 26; Gaz. vol. 150; p. 7.
Duve, Franz. (See Duve, Karl and F.)
Duve, Karl and F., Hanover, Germany. Support for bicycles and the like. No. 947,379; Jan. 25; Sp. p. 5288; Gaz. vol. 150; p. 888.
Duwelius, Alfred H., *et al.* (See Foster, William B., assignor.)
Duysens, Tossanus, J. R. H. De Jong, and H. L. Kneppers, Maastricht, Netherlands. Rotary engine. No. 950,478; Mar. 1; Sp. p. 32; Gaz. vol. 152; p. 7.
Dwight, Arthur S., San Luis Potosi, Mexico. Smelting ores. No. 959,484; May 31; Sp. p. 6620; Gaz. vol. 154; p. 1129.
Dwight, James L., Roanoke, Tex. Windmill. No. 978,716; Dec. 13; Sp. p. 2820; Gaz. vol. 161; p. 478.
Dwight Lumber Company. (See Murdoch, James J., assignor.)
Dwinell, Charles A., assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Superheater for locomotives. No. 980,078; Dec. 27; Sp. p. 5748; Gaz. vol. 161; p. 988.
Dwinell, MacWilliam A., St. Louis, Mo. Pen and pencil holder. No. 952,002; Mar. 15; Sp. p. 3137; Gaz. vol. 152; p. 565.
Dwofsky, Bernard, assignor of one-half to S. C. Newman, New York, N. Y. Polygon-inscriber. No. 979,449; Dec. 27; Sp. p. 4383; Gaz. vol. 161; p. 776.
Dwyer, Elmer M., *et al.* (See Mickey, Robert K., assignor.)
Dwyer, John E. (See Hall and Dwyer.)
Dyas, Clair S. (See Bolduan and Dyas.)
Dyck, George E., Chicago, Ill., assignor to Schwarzschild & Sulzberger Co., New York, N. Y. Curing hair. No. 957,316; May 10; Sp. p. 1775; Gaz. vol. 154; p. 310.
Dye, John S. (See O'Neill and Dye.)
Dye, Joseph O., administrator. (See Goodfellow, Moore, assignor.)
"Dye Works, formerly L. Durand, Huguenin & Co." (See Barbezat, Charles, assignor.)
Dyer, Frank L. (See Aylsworth and Dyer.)
Dyer, Frank L. (See Dyer, Leonard, assignor.)
Dyer, Frank L. (See Pierman, Alexander N., assignor.)
Dyer, Frank L., Montclair, N. J. Portable electric heater. No. 969,849; Sept. 13; Sp. p. 1536; Gaz. vol. 158; p. 264.
Dyer, Frank L., Montclair, assignor to Edison Manufacturing Company, West Orange, N. J. Color photography. No. 947,965; Feb. 1; Sp. p. 396; Gaz. vol. 151; p. 63.

Alphabetical list of patentees—Continued.

Dyer, Frank L., Montclair, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 951,757; Mar. 8; Sp. p. 2626; Gaz. vol. 152; p. 454.

Dyer, Frank L., Montclair, and D. Holden, Orange, assignors to Edison Manufacturing Company, West Orange, N. J. Exhibiting apparatus for moving pictures. No. 963,125; July 5; Sp. p. 255; Gaz. vol. 156; p. 34.

Dyer, Frank L., Montclair, and D. Holden, Upper Montpelier, assignors to Edison Manufacturing Company, West Orange, N. J. Printing moving-picture films. No. 970,199; Sept. 13; Sp. p. 2263; Gaz. vol. 158; p. 383.

Dyer, Frank L., Montclair, and D. Holden, Upper Montclair, assignors to Edison Manufacturing Company, West Orange, N. J. Apparatus for printing moving-picture films. No. 970,614; Sept. 20; Sp. p. 3127; Gaz. vol. 158; p. 545.

Dyer, James B. (See Scott, John H., assignor.)

Dyer, Joseph, Fairfield, Me. Sawing and mitering machine. No. 963,697; July 5; Sp. p. 1475; Gaz. vol. 156; p. 229.

Dyer, Leonard H. (See Loewenstein and Dyer.)

Dyer, Leonard H., Greenwich, Conn., assignor of one-fourth to F. L. Dyer, Montclair, N. J. Electric friction-clutch. No. 965,166; July 26; Sp. p. 4677; Gaz. vol. 156; p. 810.

Dyer, Philip S. (See Smith, George H., assignor.)

Dyett, A. H., *et al.* (See Poillon, George W., assignor.)

Dyett, Frank J., Ilion, N. Y. Type-writing machine. No. 973,015; Oct. 18; Sp. p. 3318; Gaz. vol. 159; p. 577.

Dyett, James H., New York, N. Y., assignor to Dyett Machine Company, Wilmington, Del. Machine for making bricks. No. 952,790; Mar. 22; Sp. p. 4772; Gaz. vol. 152; p. 860.

Dyett, James H., and C. Hulpian, assignors to Hard Manufacturing Company, Buffalo, N. Y. Convertible couch. No. 962,948; June 28; Sp. p. 5679; Gaz. vol. 155; p. 995.

Dyett Machine Company. (See Dyett, James H., assignor.)

Dykes, Hugh J., Salt Lake City, Utah. Ore-concentrator. No. 953,520; Mar. 29; Sp. p. 6334; Gaz. vol. 152; p. 1135.

Dykes, Sarah F., Hawkinsville, Ga. Mechanical motor for operating churns. No. 976,857; Nov. 29; Sp. p. 6115; Gaz. vol. 160; p. 1053.

Dykstra, Henry, Spring Valley township, McCook county, S. D. Feeding attachment for fanning-mills. No. 958,483; May 17; Sp. p. 4532; Gaz. vol. 154; p. 742.

Dymoke, Sarah, Gross, Idaho. Work-stand. No. 962,325; June 21; Sp. p. 4377; Gaz. vol. 155; p. 756.

Dyott, George M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode for arc-lamps. No. 956,519; May 3; Sp. p. 22; Gaz. vol. 154; p. 7.

Dysart, Birney, assignor to Adding Typewriter Company, St. Louis, Mo. Type-writing machine. No. 949,224; Feb. 15; Sp. p. 3012; Gaz. vol. 151; p. 535.

Dysart, Birney, assignor to Adding Typewriter Company, St. Louis, Mo. Spring-tension regulator. No. 973,641; Oct. 25; Sp. p. 4688; Gaz. vol. 159; p. 814.

Dysinger, George, Toledo, Ohio. Car-fender. No. 965,167; July 26; Sp. p. 4678; Gaz. vol. 156; p. 811.

Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Party-line call-register for automatic telephone systems. No. 958,863; May 24; Sp. p. 5334; Gaz. vol. 154; p. 897.

Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Automatic telephone system. No. 959,485; May 31; Sp. p. 6624; Gaz. vol. 154; p. 1130.

Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 971,598; Oct. 4; Sp. p. 188; Gaz. vol. 159; p. 34.

Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Automatic telephone system. No. 974,866; Nov. 8; Sp. p. 1777; Gaz. vol. 160; p. 296.

Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Automatic telephone system. No. 974,955; Nov. 8; Sp. p. 1995; Gaz. vol. 160; p. 328.

Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 975,338; Nov. 8; Sp. p. 2829; Gaz. vol. 160; p. 458.

Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Switch for automatic telephone systems. No. 975,608; Nov. 15; Sp. p. 3404; Gaz. vol. 160; p. 578.

Dyson, Herbert K., Finsbury Park, England. Metal-slitting machine. No. 955,776; Apr. 19; Sp. p. 4496; Gaz. vol. 153; p. 776.

Dyson, Herbert K., Finsbury Park, England. Expanded metal bar or member. No. 977,285; Nov. 29; Sp. p. 7069; Gaz vol. 160; p. 1202.

Dyson, Orion E., Chicago, Ill. Horseshoe. No. 979,450; Dec. 27; Sp. p. 4384; Gaz. vol. 161; p. 776.

Dysthe, Martinius, Mayville, N. D. Face-protecting mask. No. 960,520; June 7; Sp. p. 566; Gaz. vol. 155; p. 93.

Dziatkiewicz, Walter. (See Lochowicz, Stanislaus, assignor.)

E. Kirstein Sons & Co. (See Hoffman, William W., assignor.)

E. Kirstein Sons Company. (See Rapp, Theodore, assignor.)

E. A. Mallory and Sons. (See Starr, John H., assignor.)

E. B. Badger & Sons Company. (See Badger, Arthur C., assignor.)

E. C. Stearns & Co. (See Raymond, Harry, assignor.)

E. C. Stearns & Co. (See Schneeloch, August, assignor.)

E. F. Rogers & Company. (See Woodward, Albert L., assignor.)

E. G. Staude Manufacturing Company. (See Staude, Edwin G., assignor.)

E. H. Freeman Electric Company. (See Freeman, Edgar H., assignor.)

E. H. Hotchkiss Co., The. (See Jessup and Muth, assignors.)

E. H. Huenefeld Company, The. (See Flannery, Michael A., assignor.)

E. H. Huenefeld Company, The. (See Huenefeld, Walter E., assignor.)

E. I. du Pont de Nemours Powder Company. (See Barksdale, Hamilton M., assignor.)

E. I. du Pont de Nemours Powder Company. (See Claessen, Conrad P. H., assignor.)

E. I. du Pont de Nemours Powder Company, The. (See Du Pont, Ernest, assignor.)

E. I. du Pont de Nemours Powder Company, The. (See Du Pont, Francis I., assignor.)

E. I. du Pont de Nemours Powder Company. (See Du Pont and Thompson, assignors.)

E. I. du Pont de Nemours Powder Company. (See Fleming, Samuel H., assignor.)

E. I. du Pont de Nemours Powder Company. (See Johnson, Wills, assignor.)

E. I. du Pont de Nemours Powder Company, The. (See Pringle, Robert S., assignor.)

E. I. du Pont de Nemours Powder Company, The. (See Smith, Paul S., assignor.)

E. I. du Pont de Nemours Powder Company. (See Stillwell, Howard A., assignor.)

E. J. Brooks & Co. (See Aylsworth, Jonas W., assignor.)

E. J. Brooks & Co. (See Brooks, Winfred M., assignor.)

E. J. Manville Machine Company, The. (See Campbell, Andrew C., assignor.)

E. J. Manville Machine Company, The. (See Campbell and Cummins, assignors.)

E. M. Hulse Company, The. (See Hulse, Edwin M., assignor.)

E. M. Hulse Company, The. (See Hulse and Schramm, assignors.)

E. M. Kramer Company, The. (See Johnson, Andrew J., assignor.)

E. R. Thomas Detroit Co. (See Coffin, Howard E., assignor.)

E. R. Thomas Motor Company. (See Nehrbas, Frederick P., assignor.)

E. R. Thomas Motor Company. (See Thomas, Edwin L., assignor.)

E. W. Bliss Co. (See Wilzin, Arthur, assignor.)

E. W. Bliss Company. (See Gabriel, Charles R., assignor.)

E. W. Bliss Company. (See Klocke, William, assignor.)

E. W. Bliss Company. (See Leavitt, Frank M., assignor.)

E. W. Bliss Company. (See Leich, George, assignor.)

E. W. Bliss Company. (See Rigby, John J., assignor.)

E. W. Bliss Company. (See Werner, Otto, assignor.)

Eacrett, William, Toronto, Ontario, Canada, assignor to The Multoplex Filing Device Company. Credit-account-filing device. No. 971,495; Sept. 27; Sp. p. 4943; Gaz. vol. 158; p. 866.

Eads, Charles R., Fornfelt, Mo. Razor-strop holder. No. 946,021; Jan. 11; Sp. p. 2248; Gaz. vol. 150; p. 373.

Eads, James M., and A. S. Bent, Los Angeles, Cal. Irrigation-valve. No. 978,567; Dec. 13; Sp. p. 2505; Gaz. vol. 161; p. 427.

Eagar, George T., Ballston Spa, N. Y., assignor to General Electric Company. Motor-controlling device. No. 958,380; May 17; Sp. p. 4329; Gaz. vol. 154; p. 707.

Eager, James H. L., New York, N. Y. Syringe. No. 964,769; July 19; Sp. p. 3890; Gaz. vol. 156; p. 646.

Eager, Oliver M., Somerville, Mass. Bench-vise. No. 947,573; Jan. 25; Sp. p. 5739; Gaz. vol. 150; p. 953.

Eagle Lock Co. (See Clark, Dwight G., assignor.)

Eagle Lock Co. (See Murphy, James J., assignor.)

Eagle Lock Co. (See Roche, James, assignor.)

Eagle Lock Co. (See Weed, David W., assignor.)

Eagle Manufacturing Company. (See Caughey, Robert C., assignor.)

Eagle Manufacturing Company. (See Flambo, Charles C., assignor.)

Eagle Pencil Company. (See Arends, George, assignor.)

Eagle Pencil Company. (See Boman, Claes W., assignor.)

Eagle Pencil Company. (See Kaiser, Charles, assignor.)

Eagle White Lead Company, The. (See Merrill, Robert A., assignor.)

Eaid, Clayton T. and W. H., and P. S. Crotty, Olympia, Wash.; said W. H. Eaid assignor to C. G. White, Post Falls, Idaho. Car-stake socket. No. 952,003; Mar. 15; Sp. p. 3138; Gaz. vol. 152; p. 565.

Eaid, William H. (See Eaid and Crotty.)

Alphabetical list of patentees—Continued.

Eakin, William C., and R. Deboo, assignors of one-eighth to J. A. Seiler and one-eighth to J. P. Glannon, Pittsburg, Pa. Flushing-tank. No. 951,758; Mar. 8; Sp. p. 2627; Gaz. vol. 152; p. 454.
Eakle, Robert J., White Sulphur Springs, W. Va. Sash-cord guide. No. 969,094; Aug. 30; Sp. p. 6917; Gaz. vol. 157; p. 1204.
Eames, George M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 979,451; Dec. 27; Sp. p. 4386; Gaz. vol. 161; p. 777.
Eames, George M., and J. S. Finch, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Cloth-presser-lifting mechanism for sewing-machines. No. 945,153; Jan. 4; Sp. p. 298; Gaz. vol. 150; p. 51.
Eames, Ryland W., Vale, Oreg. Casing-swage. No. 980,079; Dec. 27; Sp. p. 5750; Gaz. vol. 161; p. 988.
Ean, Albert J., New York, N. Y. Mop-holder. No. 979,834; Dec. 27; Sp. p. 5248; Gaz. vol. 161; p. 908.
Earl, Clarence F. (See Speck and Earl.)
Earl, Ethel L. (See Earl, Howard D., assignor.)
Earl, Howard D., assignor of one-half to E. L. Earl, Dee, Okla. Bag-fastener. No. 956,055; Apr. 26; Sp. p. 5117; Gaz. vol. 153; p. 903.
Earl, Le-Roy W., Pecatonica, Ill. Can-end-labeling machine. No. 953,944; Apr. 5; Sp. p. 515; Gaz. vol. 153; p. 94.
Earl, William H., New Orleans, La. Adjustable reel. No. 965,091; July 19; Sp. p. 4531; Gaz. vol. 156; p. 755.
Earle, Courtland C., Providence, R. I. Apparatus for picking cotton from the boll. No. 970,695; Sept. 20; Sp. p. 3333; Gaz. vol. 158; p. 572.
Earle, John W., and A. Bourne, Birmingham, England; said Bourne assignor to said Earle. Apparatus for making metal-cased tubes. No. 946,022; Jan. 11; Sp. p. 2249; Gaz. vol. 150; p. 374.
Earls, James L., *et al.* (See King, William A., assignor.)
Early, John, Tekonsha, Mich. Door-fastener. No. 960,521; June 7; Sp. p. 567; Gaz. vol. 155; p. 94.
Earman, Hiram O., Manhasset, N. Y. Level. No. 970,897; Sept. 20; Sp. p. 3766; Gaz. vol. 158; p. 643.
Earnest, David C. (See Wilderspin, Anderson, assignor.)
Earnest, George R., Chairis, Fla. Shelf. No. 965,697; July 26; Sp. p. 5848; Gaz. vol. 156; p. 993.
Earnest, Joseph E., Jr., Reed City, Mich. Churn. No. 967,891; Aug. 23; Sp. p. 4340; Gaz. vol. 157; p. 766.
Easley, Robert A., assignor of one-third to C. M. Turner, Dickson, and one-third to W. B. Murphree, Hohenwald, Tenn. Guard-rail. No. 946,425; Jan. 11; Sp. p. 3194; Gaz. vol. 150; p. 514.
Eason Engine Co. (See Eason, Harry, assignor.)
Eason, Harry, New York, N. Y., assignor to Eason Engine Co. Internal-combustion engine. No. 963,880; July 12; Sp. p. 1911; Gaz. vol. 156; p. 314.
Eason, Hartt H., assignor to Acorn Brass Manufacturing Company, Chicago, Ill. Gas-generating apparatus. No. 955,585; Apr. 19; Sp. p. 4077; Gaz. vol. 153; p. 711.
East, James W., Lorman, Miss. Intake for pneumatic conveyers. No. 955,952. Apr. 26; Sp. p. 4909; Gaz. vol. 153; p. 867.
Eastabrook, Frank E., Stevensville, Pa. Lumber-load protector. No. 968,455; Aug. 23; Sp. p. 5562; Gaz. vol. 157; p. 959.
Eastham, Charles L., Medora, Ill. Bag-holder. No. 973,414; Oct. 18; Sp. p. 4197; Gaz. vol. 159; p. 714.
Eastham, George. (See Stenhouse and Eastham.)
Eastham, Melville, assignor to Clapp-Eastham Company, Boston, Mass. Transformer. No. 965,168; July 26; Sp. p. 4681; Gaz. vol. 156; p. 811.
Easthope, Ernest, Jr., Vancouver, British Columbia, Canada. Internal-combustion engine. No. 976,858; Nov. 29; Sp. p. 6117; Gaz. vol. 160; p. 1053.
Easthope, Joseph. (See Yoxall and Easthope.)
Eastman, Emanuel, Middletown, Conn. Swimming device. No. 950,633; Mar. 1; Sp. p. 363; Gaz. vol. 152; p. 59.
Eastman, Franklin P., New York, N. Y. Combination dredge and conveyer. No. 967,741; Aug. 16; Sp. p. 4051; Gaz. vol. 157; p. 694.
Eastman, James D., Spokane, Wash. Chalk-line holder. No. 947,892; Feb. 1; Sp. p. 245; Gaz. vol. 151; p. 40.
Eastman, Joseph D., Indianapolis, Ind. Shoe-lace fastener. No. 963,533; July 5; Sp. p. 1149; Gaz. vol. 156; p. 175.
Eastman Kodak Co. (See Fifield, Fred A., assignor.)
Eastman Kodak Co. (See Marks, Paul J., assignor.)
Eastman Kodak Co. (See Robertson, John A., assignor.)
Eastman Kodak Company. (See Becker, Joseph, assignor.)
Eastman Machine Company Limited. (See Warren and Barnard, assignors.)
Eastman, Tarleton B., *et al.* (See Clarke, George W., assignor.)
Eastman, William E., Boston, Mass. Vehicle-spring. No. 962,557; June 28; Sp. p. 4917; Gaz. vol. 155; p. 861.
Eastmond, John E., New York, N. Y. Lamp-globe shield. No. 976,447; Nov. 22; Sp. p. 5241; Gaz. vol. 160; p. 889.
Easton & Burnham Machine Company. (See Matteson, Rufus S., assignor.)
Easton, Rufus W., and E. T. Winkler, Kansas City, Mo. Swing. No. 951,061; Mar. 1; Sp. p. 1207; Gaz. vol. 152; p. 198.
Easton, Stanley A., *et al.* (See Warner, Lewis E., assignor.)
Eastwood, Albert B., assignor to William Eastwood & Son Co., Rochester, N. Y. Making shoes, sandals, and the like. No. 948,300; Feb. 1; Sp. p. 1079; Gaz. vol. 151; p. 175.
Eastwood, Arthur C., Cleveland, Ohio. Lifting-magnet. No. 950,718; Mar. 1; Sp. p. 560; Gaz. vol. 152; p. 88.
Eastwood, Arthur C., Cleveland, Ohio. Lifting-magnet controller. No. 961,342; June 14; Sp. p. 2277; Gaz. vol. 155; p. 402.
Eastwood, Arthur C., Cleveland, Ohio. Lifting-magnet. No. 978,119; Dec. 6; Sp. p. 1502; Gaz. vol. 161; p. 242.
Eastwood, Arthur C., Cleveland, Ohio. Lifting-magnet. No. 979,750; Dec. 27; Sp. p. 5053; Gaz. vol. 161; p. 880.
Eastwood, Arthur C., Cleveland, Ohio, and J. S. McKee, Pittsburg, Pa. Electric controller. No. 947,059; Jan. 18; Sp. p. 4559; Gaz. vol. 150; p. 752.
Eastwood, Harry, Fresno, Cal. Electric fishing-tool. No. 974,760; Nov. 1; Sp. p. 1544; Gaz. vol. 160; p. 237.
Eaton, Charles B., Belfast, Me. Bed-hammock. No. 960,078; May 31; Sp. p. 7936; Gaz. vol. 154; p. 1332.
Eaton, Clarence L., assignor to T. G. Plant, Boston, Mass. Wax-thread-sewing-machine attachment. No. 965,379; July 26; Sp. p. 5136; Gaz. vol. 156; p. 881.
Eaton, Clarence L., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeleting-tool. No. 974,368; Nov. 1; Sp. p. 659; Gaz. vol. 160; p. 99.
Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 975,404; Nov. 15; Sp. p. 2977; Gaz. vol. 160; p. 506.
Eaton, Ilda, Aurora, Nebr. Surgical chair. No. 951,560; Mar. 8; Sp. p. 2233; Gaz. vol. 152; p. 387.
Eaton, Kennie T. (See Thatcher, William C., assignor.)
Eaton, Leslie B., Duquoin, Ill. Powder-keg. No. 949,395; Feb. 15; Sp. p. 3407; Gaz. vol. 151; p. 595.
Eaton, OK, Portland, Me. Door-stay. No. 978,568; Dec. 13; Sp. p. 2506; Gaz. vol. 161; p. 427.
Eaton, Robert, Lake City, Minn. Valve mechanism for steamboat-engines. No. 976,790; Nov. 22; Sp. p. 5956; Gaz. vol. 160; p. 1005.
Eaton, Robert E., Union, Oreg., assignor of one-fourth to W. Wright, Denver, Colo., and one-fourth to C. W. Jones, Union, Oreg. Closure for fishing or other baskets. No. 956,801; May 3; Sp. p. 647; Gaz. vol. 154; p. 103.
Eaton, William G. (See MacFarland and Eaton.)
Eau Claire Mill Supply Co. (See Bostwick, Arthur J., assignor.)
Eavenson, Howard, *et al.* (See Buffum, Frederick D., assignor.)
Eavenson, Howard N. (See Buffum, Eavenson, and O'Toole.)
Eavenson, Howard N. (See O'Toole and Eavenson.)
Eaves, Joseph W., Blackpool, England. Shooting game. No. 973,488; Oct. 25; Sp. p. 4360; Gaz. vol. 159; p. 762.
Ebelhare, William H. (See Mehl and Ebelhare.)
Ebelhare, William H., Waltham, Mass., assignor to Philadelphia Watch Case Company, Riverside, N. J. Watch-movement click. No. 951,106; Mar. 8; Sp. p. 1306; Gaz. vol. 152; p. 239.
Ebelhare, William H., Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Ratchet mechanism for watch-movements. No. 971,496; Sept. 27; Sp. p. 4946; Gaz. vol. 158; p. 866.
Ebelhare, William H., Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Ratchet mechanism for watch-movements. No. 977,286; Nov. 29; Sp. p. 7071; Gaz. vol. 160; p. 1203.
Ebeling, August W., Charlottenburg, assignor to Siemens & Halske A. G., Berlin, Germany. Diplex telephone connection. No. 960,856; June 7; Sp. p. 1243; Gaz. vol. 155; p. 208.
Ebeling, Moritz, Jr., Barmen, Germany. Measuring and thread-cutting device for winding-frames. No. 949,171; Feb. 15; Sp. p. 2919; Gaz. vol. 151; p. 518.
Ebeling, Moritz, and J. Herzog, Barmen, Germany. Plaiting and bobbin machine. No. 957,317; May 10; Sp. p. 1778; Gaz. vol. 154; p. 310.
Eberhard Faber Pencil Company. (See Schmitz, Egon L., assignor.)
Eberhard, Otto von, Bredeney-on-the-Ruhr, and O. Schmitz, Essen-on-the-Ruhr, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Device for determining sight adjustments. No. 949,015; Feb. 15; Sp. p. 2608; Gaz. vol. 151; p. 467.
Eberhardt, Elmer G., assignor, by mesne assignments, to Newark Gear Cutting Machine Company, Newark, N. J. Mechanical movement. No. 969,352; Sept. 6; Sp. p. 424; Gaz. vol. 158; p. 68.
Eberhardt, Frederick L., assignor to Gould & Eberhardt, Newark, N. J. Shaping-machine. No. 973,415; Oct. 18; Sp. p. 4198; Gaz. vol. 159; p. 715.
Eberhardt, Hermann, Breslau, Germany. Apparatus for treating and measuring intestines. No. 964,006; July 12; Sp. p. 2173; Gaz. vol. 156; p. 355.
Eberley, Charles P., Dallas, Tex. Nursing-bottle. No. 951,419; Mar. 8; Sp. p. 1954; Gaz. vol. 152; p. 339.

Alphabetical list of patentees—Continued.

Eberman Auto Appliance Company. (See Eberman, Joseph W., assignor.)
Eberman, Joseph W., assignor to Eberman Auto Appliance Company, Chicago, Ill. Air-compressor. No. 969,139; Aug. 30; Sp. p. 7018; Gaz. vol. 157; p. 1221.
Eberman, Ralph L., Jamestown, N. Y. Fluid-elevator. No. 954,270; Apr. 5; Sp. p. 1216; Gaz. vol. 153; p. 203.
Ebersole, Elbert L. (See Neff, Cole, and Ebersole.)
Eberson, Alexander A. (See Baker, Le Roy, assignor.)
Ebert, Charles W., Merrill, Wis. Grab-hook. No. 960,522; June 7; Sp. p. 568; Gaz. vol. 155; p. 94.
Ebert, Henry D., Baldwinsville, Mass. Stamp or ticket vending machine. No. 971,531; Oct. 4; Sp. p. 41; Gaz. vol. 159; p. 10.
Ebinger, David A., Columbus, Ohio. Ventilating device for urinals. No. 966,535; Aug. 9; Sp. p. 1514; Gaz. vol. 157; p. 259.
Ebling, Charles B. (See Ebling, John B. and C. B.)
Ebling, John B., Tuckerton, and C. B. Ebling, Daubersville, Pa. Planter and fertilizer-distributer. No. 953,822; Apr. 5; Sp. p. 284; Gaz. vol. 153; p. 50.
Ebner, Peter, Columbus, Ohio. Metal-ceiling construction. No. 951,307; Mar. 8; Sp. p. 1719; Gaz. vol. 152; p. 303.
Ecaubert, Frederic, New York, N. Y. Compensating escapement-regulator. No. 965,503; July 26; Sp. p. 5401; Gaz. vol. 156; p. 924.
Ecaubert, Frederic, New York, N. Y. Compensating escapement-regulator. No. 965,504; July 26; Sp. p. 5403; Gaz. vol. 156; p. 925.
Ecaubert, Frederic, New York, N. Y. Compensating balance-wheel. No. 965,505; July 26; Sp. p. 5405; Gaz. vol. 156; p. 925.
Ecaubert, Frederic, New York, N. Y. Compensating balance for timepieces. No. 965,506; July 26; Sp. p. 5410; Gaz. vol. 156; p. 925.
Ecaubert, Frederic, New York, N. Y. Escapement-regulator. No. 965,507; July 26; Sp. p. 5416; Gaz. vol. 156; p. 926.
Ecaubert, Frederic, New York, N. Y. Balance-wheel for timepieces. No. 965,508; July 26; Sp. p. 5419; Gaz. vol. 156; p. 926.
Eccles, Le Roy. (See Lockwood, Nelson A., assignor.)
Echols, Champ T., Mullin, Tex. Windmill-regulator. No. 964,408; July 12; Sp. p. 2970; Gaz. vol. 156; p. 490.
Echols, John D., Kaufman, Tex. Manure-spreader. No. 964,853; July 19; Sp. p. 4052; Gaz. vol. 156; p. 675.
Eck, Charles. (See Rothfuchs and Eck.)
Eck Dynamo and Motor Company. (See Pollak, Richard, assignor.)
Eckardt, Max B., Milwaukee, Wis. Fish-hook. No. 954,788; Apr. 12; Sp. p. 2371; Gaz. vol. 153; p. 409.
Eckardt, Moritz. (See Collett and Eckardt.)
Eckart, George F., Chicago, Ill. Skate. No. 967,742; Aug. 16; Sp. p. 4054; Gaz. vol. 157; p. 694.
Eckartz, John C., assignor to H. J. W. Vanderminden, New York, N. Y. Folding table. No. 963,698; July 5; Sp. p. 1477; Gaz. vol. 156; p. 229.
Ecker, E. C., *et al.* (See Van Bosch, Peter M., assignor.)
Eckert, Fred C., Waukesha, Wis. Key. No. 962,558; June 28; Sp. p. 4919; Gaz. vol. 155; p. 861.
Eckert, Frederick C., *et al.* (See Thompson, George C., assignor.)
Eckert, Jacob P., Valley Park, Mo. Vegetable-cutter. No. 962,500; June 28; Sp. p. 4779; Gaz. vol. 155; p. 841.
Eckert, James C., administrator. (See Fox, Charles.)
Eckert, John, and F. C. Leppert, Sarles, N. D. Attachment for churns. No. 952,889; Mar. 22; Sp. p. 4967; Gaz. vol. 152; p. 894.
Eckhard, John, Boston, Mass. Auxiliary spring for vehicles. No. 962,703; June 28; Sp. p. 5216; Gaz. vol. 155; p. 910.
Eckhard, John, Boston, Mass. Automobile running-gear. No. 965,994; Aug. 2; Sp. p. 314; Gaz. vol. 157; p. 52.
Eckhard, John, Boston, Mass. Sight-feed oiler for automobiles. No. 974,249; Nov. 1; Sp. p. 374; Gaz. vol. 160; p. 54.
Eckhardt, Edward J., Brooklyn, assignor of one-half to S. Meyer, New York, N. Y. Safety clothes-line hanger. No. 949,700; Feb. 15; Sp. p. 3992; Gaz. vol. 151; p. 694.
Eckhart, John G., and H. M. Fisher, Peoria, Ill. Stretching device. No. 952,241; Mar. 15; Sp. p. 3584; Gaz. vol. 152; p. 644.
Eckhouse, George H. (See Hahn and Eckhouse.)
Eckman, Elder R., Council Grove, Kans. Burglar-trap vault. No. 948,922; Feb. 8; Sp. p. 2399; Gaz. vol. 151; p. 408.
Eckmann, Emil, Neubeckum, Germany. Steam regenerative accumulator. No. 969,257; Sept. 6; Sp. p. 230; Gaz. vol. 158; p. 37.
Eckroat, Franklin P. and P. F., Shawnee, Okla. Cultivator. No. 976,643; Nov. 22; Sp. p. 5651; Gaz. vol. 160; p. 955.
Eckroat, Franklin P. and P. F., Shawnee, Okla. Cultivator. No. 976,644; Nov. 22; Sp. p. 5654; Gaz. vol. 160; p. 956.
Eckroat, Peter F. (See Eckroat, Franklin P. and P. F.)
Eckstrom, Adolf P., Riverside, Cal. Saw-oiler. No. 961,289; June 14; Sp. p. 2142; Gaz. vol. 155; p. 384.
Eclipse Holding Company. (See Roney, Thomas F., assignor.)
Eclipse Machine Company. (See Forsyth and Ellett, assignors.)
Eclipse Metallic Specialty Company, The. (See Difio, Harry, assignor.)
Eco Magneto Clock Co., The. (See Fessenden, George B., assignor.)
Economic Loom Company. (See Hunt, Robert H. H., assignor.)
Economic Specialty Company. (See Clark, George, assignor.)
Economy Electric Company. (See Hertzberg and Wohl, assignors.)
Economy Gas Regulator Company. (See Beckman, Adolph G., assignor.)
Economy Tool Company. (See Dinsmoor, Winfield L., assignor.)
Ecton, Jesse A., Silverlake, Utah. Toy. No. 967,352; Aug. 16; Sp. p. 3244; Gaz. vol. 157; p. 562.
Ecton, Jesse A., Salt Lake City, Utah. Hoisting-machine. No. 967,353; Aug. 16; Sp. p. 3245; Gaz. vol. 157; p. 563.
Edde, Henri, Paris, France. Inhaler. No. 960,523; June 7; Sp. p. 569; Gaz. vol. 155; p. 94.
Eddleman, Dudley E., and J. E. Armstrong, assignors of one-half to said Eddleman and one-half to E. A. Frantz, Weatherford, Tex. Buckle for bale-ties. No. 972,834; Oct. 18; Sp. p. 2877; Gaz. vol. 159; p. 512.
Eddleman, Peter A., assignor of one-half to J. B. McConnell, Ingleside, Ga. Vehicle-hub. No. 955,060; Apr. 12; Sp. p. 2960; Gaz. vol. 153; p. 502.
Eddy, Arthur D., *et al.* (See Dorgan, William T., assignor.)
Eddy, Charles F. A., Los Angeles, Cal. Box. No. 973,927; Oct. 25; Sp. p. 5271; Gaz. vol. 159; p. 914.
Eddy, George D., Burlington, Vt. Sputum-cup. No. 970,480; Sept. 20; Sp. p. 2851; Gaz. vol. 158; p. 498.
Eddy, George W., assignor of one-half to G. A. Strohhaecker, Milwaukee, Wis. Keyless padlock. No. 970,481; Sept. 20; Sp. p. 2853; Gaz. vol. 158; p. 498.
Eddy, Howard E., Arlington, Md. Paper-testing device. No. 974,867; Nov. 8; Sp. p. 1790; Gaz. vol. 160; p. 297.
Eddy, John A. (See Stevens, Fred P., assignor.)
Eddy, Ray L., Chicago, Ill. Smoke-recording apparatus. No. 971,670; Oct. 4; Sp. p. 335; Gaz. vol. 159; p. 59.
Eddy Valve Company. (See Whitney, Edwin H., assignor.)
Edelen, Benjamin M., Jr., Bryantown, Md. Plow. No. 957,045; May 3; Sp. p. 1176; Gaz. vol. 154; p. 186.
Edelman, Adam, Millerton, N. Y. Shoe-cleaner. No. 960,290; June 7; Sp. p. 101; Gaz. vol. 155; p. 20.
Edema, Bertus J., assignor to American Car & Foundry Company, Chicago, Ill. Bending-dies. No. 950,167; Feb. 22; Sp. p. 5075; Gaz. vol. 151; p. 891.
Eden, Edward S., Eastwood, Ontario, Canada. Skirt-drafting quadrant. No. 967,504; Aug. 16; Sp. p. 3577; Gaz. vol. 157; p. 614.
Eden, Francis R., Montclair, N. J. Machine for wire-working, needle-pointing, or the like. No. 953,741; Apr. 5; Sp. p. 119; Gaz. vol. 153; p. 23.
Eden, Francis R., Montclair, N. J. Cutting or trimming machine for sheet metal. No. 957,942; May 17; Sp. p. 3074; Gaz. vol. 154; p. 551.
Eden, Harold W., Detroit, Mich. Electric signal-bell. No. 955,636; Apr. 19; Sp. p. 4198; Gaz. vol. 153; p. 730.
Eden, Harold W., assignor to P. R. Manufacturing Company, Detroit, Mich. Construction of bell-hammers. No. 948,970; Feb. 8; Sp. p. 2496; Gaz. vol. 151; p. 425.
Eden, Harold W., assignor to P. R. Manufacturing Company, Detroit, Mich. Electric insulator. No. 949,726; Feb. 15; Sp. p. 4048; Gaz. vol. 151; p. 702.
Eden, James A., Jr., Brooklyn, assignor, by mesne assignments, to Rees Hook Company, Elmira, N. Y. Machine for manufacturing lacing-hooks. No. 953,002; Mar. 22; Sp. p. 5190; Gaz. vol. 152; p. 931.
Edenharter, Frank T. (See Stiggleman, James H., assignor.)
Edens, John, assignor to H. F. Brammer Manufacturing Company, Davenport, Iowa. Operating mechanism for washing-machines. No. 946,115; Jan. 11; Sp. p. 2432; Gaz. vol. 150; p. 405.
Edens, Noah S., Highland, Cal. Tide-motor. No. 953,600; Mar. 29; Sp. p. 6500; Gaz. vol. 152; p. 1162.
Eder, James M., New York, N. Y. Smoking implement. No. 980,080; Dec. 27; Sp. p. 5751; Gaz. vol. 161; p. 989.
Edey, Charles E. C., Tacoma, Wash. Lock. No. 973,928; Oct. 25; Sp. p. 5273; Gaz. vol. 159; p. 915.
Edgar, Ellis F., Woodbridge, N. J. Steam-boiler furnace. No. 946,840; Jan. 18; Sp. p. 4106; Gaz. vol. 150; p. 679.
Edgar, Ellis F., Woodbridge, N. J. Steam-turbine engine. No. 952,791; Mar. 22; Sp. p. 4775; Gaz. vol. 152; p. 860.
Edgar, George B., Sr., assignor of one-third to L. C. Beatty, Iola, Kans. Freight-car seal. No. 979,452; Dec. 27; Sp. p. 4390; Gaz. vol. 161; p. 777.
Edgar, Lucien B., Colorado Springs, Colo. Sealing device. No. 954,271; Apr. 5; Sp. p. 1218; Gaz. vol. 153; p. 203.
Edgar, William K., assignor of one-half to F. T. Tolbert, Iola, Kans. Credit-account cabinet. No. 977,942; Dec. 6; Sp. p. 1127; Gaz. vol. 161; p. 181.

Alphabetical list of patentees—Continued.

Edgcombe, Robert L., Waterville, Quebec, Canada, assignor of one-half to S. E. Pope, Jeffersonville, Vt. Invalid-bed. No. 945,449; Jan. 4; Sp. p. 949; Gaz. vol. 150; p. 149.
Edge Moor Iron Company. (See Sellers and Collins, assignors.)
Edge Moor Iron Company. (See Sellers and Davidson, assignors.)
Edge, Selwyn F., *et al.* (See Cannon, Percival C., assignor.)
Edge, William W., and K. F. Campbell, Jud, Tex. Machine for gathering cotton. No. 954,382; Apr. 5; Sp. p. 1451; Gaz. vol. 153; p. 241.
Edgecombe, Frederick T., Dumbarton, Scotland. Torsiometer. No. 963,699; July 5; Sp. p. 1478; Gaz. vol. 156; p. 230.
Edgerton, Charles, Philadelphia, Pa. Garbage-receptacle. No. 950,097; Feb. 22; Sp. p. 4927; Gaz. vol. 151; p. 867.
Edgerton, Earle W., St. Paul, Minn. Sheet-inserter. No. 980,081; Dec. 27; Sp. p. 5753; Gaz. vol. 161; p. 989.
Edgerton, Edward E., Chicago, Ill. Electric-lamp cleaner. No. 949,419; Feb. 15; Sp. p. 3455; Gaz. vol. 151; p. 603.
Edgerton, James I., New York, N. Y. Antiskidding chain. No. 968,751; Aug. 30; Sp. p. 6234; Gaz. vol. 157; p. 1090.
Edick, George E., Manasquan, N. J. Spark-plug. No. 976,158; Nov. 22; Sp. p. 4550; Gaz. vol. 160; p. 787.
Edison Manufacturing Company. (See Aiken, Edward L., assignor.)
Edison Manufacturing Company. (See Dodge, Eben G., assignor.)
Edison Manufacturing Company. (See Dyer, Frank L., assignor.)
Edison Storage Battery Company. (See Edison, Thomas A., assignor.)
Edison Storage Battery Company. (See Edison and Aylesworth, assignors.)
Edison, Thomas A., Llewellyn Park, Orange, N. J. Automobile. No. 947,806; Feb. 1; Sp. p. 53; Gaz. vol. 151; p. 11.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Treating cans of alkaline storage batteries. No. 948,542; Feb. 8; Sp. p. 1600; Gaz. vol. 151; p. 282.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Apparatus for making metallic films or flakes. No. 950,227; Feb. 22; Sp. p. 5205; Gaz. vol. 151; p. 912.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Sprocket-chain drive. No. 954,789; Apr. 12; Sp. p. 2373; Gaz. vol. 153; p. 410.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Crushing-roll. No. 962,822; June 28; Sp. p. 5448; Gaz. vol. 155; p. 952.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Crushing-roll. No. 962,823; June 28; Sp. p. 5449; Gaz. vol. 155; p. 952.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Apparatus for recording or reproducing sounds. No. 963,362; July 5; Sp. p. 797; Gaz. vol. 156; p. 117.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Electroplating. No. 964,096; July 12; Sp. p. 2361; Gaz. vol. 156; p. 387.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Method and apparatus for making sound-records. No. 970,615; Sept. 20; Sp. p. 3130; Gaz. vol. 158; p. 545.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Flying-machine. No. 970,616; Sept. 20; Sp. p. 3133; Gaz. vol. 158; p. 546.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Duplicating talking-machine records. No. 975,339; Nov. 8; Sp. p. 2840; Gaz. vol. 160; p. 458.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Phonograph-reproducer. No. 975,340; Nov. 8; Sp. p. 2842; Gaz. vol. 160; p. 459.
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Device for viewing moving pictures. No. 964,097; July 12; Sp. p. 2362; Gaz. vol. 156; p. 387.
Edison, Thomas A., Orange, N. J. Tube-sealing machine. No. 956,317; Apr. 26; Sp. p. 5716; Gaz. vol. 153; p. 995.
Edison, Thomas A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 946,540; Jan. 18; Sp. p. 3446; Gaz. vol. 150; p. 579.
Edison, Thomas A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Storage-battery electrode. No. 948,558; Feb. 8; Sp. p. 1646; Gaz. vol. 151; p. 287.
Edison, Thomas A., Llewellyn Park, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 976,792; Nov. 22; Sp. p. 5960; Gaz. vol. 160; p. 1006.
Edison, Thomas A., Llewellyn Park, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonographic recording apparatus. No. 950,226; Feb. 22; Sp. p. 5203; Gaz. vol. 151; p. 912.
Edison, Thomas A., Llewellyn Park, Orange, assignor to New Jersey Patent Company, Orange, N. J. Apparatus for recording sounds. No. 962,081; June 21; Sp. p. 3842; Gaz. vol. 155; p. 673.
Edison, Thomas A., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Sound-record. No. 964,221; July 12; Sp. p. 2596; Gaz. vol. 156; p. 428.
Edison, Thomas A., Llewellyn Park, Orange, and J. F. Ott, Orange, N. J. Tube-forming machine. No. 967,178; Aug. 16; Sp. p. 2901; Gaz. vol. 157; p. 503.
Edison, Thomas A., Llewellyn Park, Orange, and J. W. Aylesworth, East Orange, assignors to Edison Storage Battery Company, West Orange, N. J. Storage-battery electrode. No. 976,791; Nov. 22; Sp. p. 5958; Gaz. vol. 160; p. 1006.
Edlavitch, Charles J., Baltimore, Md. Hat-pin attachment. No. 952,890; Mar. 22; Sp. p. 4968; Gaz. vol. 152; p. 894.
Edler, Albert S., Chicago, Ill. Portable power-operated drill. No. 972,351; Oct. 11; Sp. p. 1815; Gaz. vol. 159; p. 319.
Edlund, John A., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 959,125; May 24; Sp. p. 5880; Gaz. vol. 154; p. 985.
Edmands, Isaac R., Niagara Falls, assignor to Electro Metallurgical Company, New York, N. Y. Electrode support and conductor. No. 959,486; May 31; Sp. p. 6635; Gaz. vol. 154; p. 1130.
Edmond, Thomas O., Cypress, Ind. Thermostat. No. 950,042; Feb. 22; Sp. p. 4830; Gaz. vol. 151; p. 849.
Edmonds, Henry, Soho Hill, Birmingham, England. Stay for lace and other soft collars. No. 966,893; Aug. 9; Sp. p. 2300; Gaz. vol. 157; p. 377.
Edmonds, Henry G., *et al.* (See Morrison, Augustus H., assignor.)
Edmonds, Samuel O. (See Quentell, William P., assignor.)
Edmonson, Alva T., Chicago, Ill. Pressure-regulated valve. No. 973,016; Oct. 18; Sp. p. 3321; Gaz. vol. 159; p. 577.
Edmunds, Frank A., and N. G. Warming, St. Paul, Minn. Crank connection for multicylinder-engines. No. 962,200; June 21; Sp. p. 4118; Gaz. vol. 155; p. 714.
Edson, George W., Guthrie Center, Iowa. Wagon end-gate. No. 949,566; Feb. 15; Sp. p. 3747; Gaz. vol. 151; p. 651.
Edstrom, Karl A. (See Ainsworth, Putnam, and Edstrom.)
Edtbauer, Petronella, Chicago, Ill. Automatic weighing-machine. No. 945,767; Jan. 11; Sp. p. 1690; Gaz. vol. 150; p. 284.
Edtbauer, Petronella, Chicago, Ill. Coffee-percolator. No. 948,108; Feb. 1; Sp. p. 684; Gaz. vol. 151; p. 112.
Edward Miller & Company. (See Parker, Frank S., assignor.)
Edward Renneburg & Sons Company. (See Renneburg, Frederick P., assignor.)
Edward Katzinger Co. (See Guttman, Harry J., assignor.)
Edwards, Andrew A., and A. Olson, Stanwood, Wash. Rotary engine. No. 961,849; June 21; Sp. p. 3341; Gaz. vol. 155; p. 594.
Edwards, Arthur T., Cherokee, Okla. Merchandise-display rack. No. 965,169; July 26; Sp. p. 4682; Gaz. vol. 156; p. 811.
Edwards, Arthur W., Chatham, Mass. Motor-cycle attachment. No. 958,607; May 17; Sp. p. 4774; Gaz. vol. 154; p. 783.
Edwards, Bertram C., *et al.* (See Lenzi, Frank, assignor.)
Edwards, Charles B., assignor of one-fourth to J. H. Crooks and one-fourth to W. Simonet, Massillon, Ohio. Engine-governor. No. 971,431; Sept. 27; Sp. p. 4828; Gaz. vol. 158; p. 845.
Edwards & Co. (See Lungen, Adam, assignor.)
Edwards & Company. (See Miller, Christian, assignor.)
Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Down-drop sight-feed lubricator. No. 948,301; Feb. 1; Sp. p. 1081; Gaz. vol. 151; p. 175.
Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Sight-feed for lubricators. No. 952,515; Mar. 22; Sp. p. 4152; Gaz. vol. 152; p. 799.
Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Sight-feed for lubricators. No. 952,611; Mar. 22; Sp. p. 4375; Gaz. vol. 152; p. 764.
Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Index-glass for lubricators. No. 953,675; Mar. 29; Sp. p. 6668; Gaz. vol. 152; p. 1188.
Edwards, Harry C., Kansas City, Mo. Alfalfa-grinding machine. No. 979,063; Dec. 20; Sp. p. 3549; Gaz. vol. 161; p. 621.
Edwards, Henry F., and W. Dowling, assignors to Mesker & Brother, St. Louis, Mo. Fireproof stairs. No. 964,222; July 12; Sp. p. 2600; Gaz. vol. 156; p. 428.
Edwards, Howard S. (See Trotter, John T., assignor.)
Edwards, Isaac L., Aurora, Ill. Third-rail electric railway. No. 952,004; Mar. 15; Sp. p. 3139; Gaz. vol. 152; p. 565.
Edwards, Jessie V., Clifton, Tex. Window-sash. No. 962,501; June 28; Sp. p. 4780; Gaz. vol. 155; p. 841.
Edwards, Joseph P., Chico, Cal. Vibrator for telephone-transmitters. No. 946,664; Jan. 18; Sp. p. 3697; Gaz. vol. 150; p. 618.
Edwards, Nora C., Buffalo, N. Y. Skirt-supporter. (Reissue.) No. 13,152; Sept. 20; Sp. p. 3980; Gaz. vol. 158; p. 681.

Edwards, Oliver M., Syracuse, N. Y. Window. No. 965,995; Aug. 2; Sp. p. 316; Gaz. vol. 157; p. 53.
Edwards, Philip H., Colorado Springs, Colo. Trap-nest. No. 977,606; Dec. 6; Sp. p. 437; Gaz. vol. 161; p. 64.
Edwards, Richard J., Galena, Ill. Railway-car. No. 953,781; Apr. 5; Sp. p. 196; Gaz. vol. 153; p. 36.
Edwards, Robert L., Darlington, S. C. Cotton-harvester. No. 975,125; Nov. 8; Sp. p. 2376; Gaz. vol. 160; p. 386.
Edwards, Rufus E., assignor of one-half to T. J. Kelly, Lincoln, Nebr. Collection-box for mail-chutes. No. 951,602; Mar. 8; Sp. p. 2305; Gaz. vol. 152; p. 400.
Edwards, Simpson, Bloomington, Ill. Lunch-pail. No. 971,735; Oct. 4; Sp. p. 479; Gaz. vol. 159; p. 83.
Edwards, Thomas, Ballarat, Victoria, Australia. Agitator and disintegrator. No. 967,743; Aug. 16; Sp. p. 4058; Gaz. vol. 157; p. 695.
Edwards, Thomas, Ballarat, Victoria, Australia. Precipitation apparatus. No. 967,744; Aug. 16; Sp. p. 4060; Gaz. vol. 157; p. 695.
Edwards, Thomas, Ballarat, Victoria, Australia. Dust-preventing ore-dropping apparatus and the like for roasting-furnaces. No. 979,937; Dec. 27; Sp. p. 5450; Gaz. vol. 161; p. 942.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Dust-catcher. No. 968,456; Aug. 23; Sp. p. 5562; Gaz. vol. 157; p. 959.
Edwards, Victor E., and J. R. George, assignors to Morgan Construction Company, Worcester, Mass. Feeding mechanism for gas-producers. No. 972,172; Oct. 11; Sp. p. 1441; Gaz. vol. 159; p. 258.
Edwards, William, Easton, Pa. Umbrella. No. 959,127; May 24; Sp. p. 5885; Gaz. vol. 154; p. 986.
Edwards, William F. (See Kellner and Edwards.)
Edwards, William F., Cedartown, Ga. Railway-switch. No. 975,517; Nov. 15; Sp. p. 3211; Gaz. vol. 160; p. 547.
Edwards, William H., and M. C. Boals, Palisades, Colo. Orchard-heater. No. 966,670; Aug. 9; Sp. p. 1778; Gaz. vol. 157; p. 304.
Edwards, William J., Cambridge, Mass. Concrete construction. No. 497,492; Jan. 25; Sp. p. 5572; Gaz. vol. 150; p. 925.
Edwards, William M., assignor to Hardsocg Mfg. Co., Ottumwa, Iowa. Compartment-canteen. No. 975,939; Nov. 15; Sp. p. 4090; Gaz. vol. 160; p. 690.
Edwin B. Stimpson Company. (See Stimpson, Edwin B., assignor.)
Edwin Harrington, Son & Co. (See Scott, Robert F., assignor.)
Edwin Harrington, Son & Company. (See Coes, Zorester B., assignor.)
Edwin Harrington, Son & Company. (See Coes, Scott, and Thumlert, assignors.)
Effantin, Clement S. (See Effantin, Pierre C. F. and C. S.)
Effantin, Pierre C. F. and C. S., Paris, France. Disinfecting apparatus. No. 976,992; Nov. 29; Sp. p. 6449; Gaz. vol. 160; p. 1101.
Effantin, Stanislas, St. Cloud, France. Apparatus for distributing liquids in measured quantities. No. 971,259; Sept. 27; Sp. p. 4517; Gaz. vol. 158; p. 790.
Effront, Jean, Brussels, Belgium. Fermenting organic nitrogenous substances. No. 953,025; Mar. 29; Sp. p. 5245; Gaz. vol. 152; p. 967.
Egbert, Solomon W., Joliet, Ill. Apparatus for recovering material from scrap metal. No. 945,024; Jan. 4; Sp. p. 28; Gaz. vol. 150; p. 7.
Egbert, Solomon W., Joliet, Ill., assignor to American Can Company, New York, N. Y. Metal-scrap compressor. No. 975,844; Nov. 15; Sp. p. 3891; Gaz. vol. 160; p. 657.
Ege, Andrew, Duluth, Minn. Boat. No. 964,627; July 19; Sp. p. 3487; Gaz. vol. 156; p. 596.
Egge, Frederick, Bridgeport, Conn. Seal. No. 976,349; Nov. 22; Sp. p. 5025; Gaz. vol. 160; p. 853.
Egge, Frederick, assignor to The Smith & Egge Manufacturing Co., Bridgeport, Conn. Making cable-chains. No. 978,717; Dec. 13; Sp. p. 2822; Gaz. vol. 161; p. 479.
Eggebrecht, Otto, Momence, assignor to The Emerson Typewriter Company, Chicago, Ill. Soldering attachment. No. 964,223; July 12; Sp. p. 2602; Gaz. vol. 156; p. 429.
Eggebrecht, Otto, Momence, assignor to The Emerson Typewriter Company, Chicago, Ill. Escapement mechanism. No. 969,530; Sept. 6; Sp. p. 810; Gaz. vol. 158; p. 127.
Eggenhofer, August, Zanesville, Ohio. Dough dividing and rounding machine. No. 978,440; Dec. 13; Sp. p. 2210; Gaz. vol. 161; p. 383.
Eggers, Anton C., assignor to The Loktile Company, New York, N. Y. Floor-covering. No. 953,413; Mar. 29; Sp. p. 6106; Gaz. vol. 152; p. 1097.
Eggers, Henry D. (See Bremaker and Eggers.)
Eggert, William H., assignor to J. P. Devine Company, Buffalo, N. Y. Discharge mechanism for vacuum-tanks. No. 960,857; June 7; Sp. p. 1245; Gaz. vol. 155; p. 208.
Eggins, James, Ottawa, Ontario, Canada. Furnace structure. No. 975,754; Nov. 15; Sp. p. 3715; Gaz. vol. 160; p. 627.
Eggleston, Edmund E., Wichita, Kans. Bicycle-lock. No. 979,453; Dec. 27; Sp. p. 4392; Gaz. vol. 161; p. 777.
Eggleston, Eugene B., Sheridan, Ill. Mail-box protector. No. 969,686; Sept. 6; Sp. p. 1131; Gaz. vol. 158; p. 182.
Eggleston, Harvey L., Tulare, Cal. Retaining means for teeth of road-dressers. No. 969,850; Sept. 13; Sp. p. 1538; Gaz. vol. 158; p. 264.
Eggleston, Lewis W., Chicago, Ill. Valve. No. 963,215; July 5; Sp. p. 488; Gaz. vol. 156; p. 67.
Eggleston, Randolph, *et al.* (See Mason, Albert, assignor.)
Eghian, Setrak G., Ogden, Utah. Book-holder. No. 952,103; Mar. 15; Sp. p. 3323; Gaz. vol. 152; p. 598.
Egly, Georg. (See Viertel and Egly.)
Egly, Georg, Treptow, near Berlin, assignor to Gebrueder Siemens & Co., Lichtenberg, near Berlin, Germany. Protective screen for apparatus which are exposed to high temperatures. No. 971,124; Sept. 27; Sp. p. 4218; Gaz. vol. 158; p. 745.
Egly, Georg, Berlin, assignor to Gebrüder Siemens & Co., Lichtenberg, near Berlin, Germany. Arc-lamp electrode. No. 977,607; Dec. 6; Sp. p. 439; Gaz. vol. 161; p. 65.
Egly, George C., Philadelphia, Pa. Knitting-machine needle. No. 956,318; Apr. 26; Sp. p. 5717; Gaz. vol. 153; p. 995.
Egly, John C., Philadelphia, Pa. Knitting-machine needle. No. 954,174; Apr. 5; Sp. p. 1014; Gaz. vol. 153; p. 172.
Egnér, Carl E., Stockholm, and R. F. Fredriksson, Gottenborg, Sweden. Aerial electric cable. No. 960,291; June 7; Sp. p. 102; Gaz. vol. 155; p. 20.
Egry Autographic Register Company, The. (See Schirmer and Stern, assignors.)
Eherenman, John, Mentone, Ind. Shaft-support. No. 946,023; Jan. 11; Sp. p. 2251; Gaz. vol. 150; p. 374.
Ehikian, Hatchik, Fresno, Cal. Knee-cushion. No. 967,004; Aug. 9; Sp. p. 2524; Gaz. vol. 157; p. 415.
Ehle, Archibald H., assignor to Baldwin Locomotive Works, Philadelphia, Pa. Internal-combustion locomotive. No. 951,062; Mar. 1; Sp. p. 1210; Gaz. vol. 152; p. 199.
Ehlen, Henry, and C. E. Rudy, Covington, assignors of one-third to W. B. Meeker, Dayton, Ohio; said Rudy assignor to said Ehlen. Automatic controlling device for vehicle-lamps. No. 950,615; Mar. 1; Sp. p. 317; Gaz. vol. 152; p. 52.
Ehlers, Carl, Minden, Iowa. Loader. No. 967,892; Aug. 23; Sp. p. 4342; Gaz. vol. 157; p. 767.
Ehlers, Robert J. (See St. John, Charles P., assignor.)
Ehmling, Charles T., Philadelphia, Pa. Calendar. No. 967,893; Aug. 23; Sp. p. 4346; Gaz. vol. 157; p. 767.
Ehous, William. (See Karsitz, Frank, assignor.)
Ehr, Christian, Portage, Wis. Frame-adjuster. No. 948,849; Feb. 8; Sp. p. 2266; Gaz. vol. 151; p. 384.
Ehrenberg, Friedrich von, Constance, Germany. Safety-anchor for air-ships and the like. No. 951,942; Mar. 15; Sp. p. 3019; Gaz. vol. 152; p. 547.
Ehrhardt, Erwin, Pankow, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Apparatus for producing combinations of holes in paper bands. No. 946,024; Jan. 11; Sp. p. 2252; Gaz. vol. 150; p. 374.
Ehrhart, Raymond N., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 952,792; Mar. 22; Sp. p. 4777; Gaz. vol. 152; p. 861.
Ehrhart, Raymond N., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 953,521; Mar. 29; Sp. p. 6340; Gaz. vol. 152; p. 1136.
Ehrhart, Raymond N., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Turbine-controlling device. No. 963,881; July 12; Sp. p. 1915; Gaz. vol. 156; p. 315.
Ehrhart, Raymond N., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 968,839; Aug. 30; Sp. p. 6405; Gaz. vol. 157; p. 1117.
Ehrhart, Raymond N., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 968,840; Aug. 30; Sp. p. 6409; Gaz. vol. 157; p. 1117.
Ehrich, Jacob S., Lynchburg, Va. Protector for automobile-tires. No. 965,698; July 26; Sp. p. 5848; Gaz. vol. 156; p. 993.
Ehrlich, Leo, assignor to U. S. Mail Chute Equipment Company, St. Louis, Mo. Letter-box. No. 948,815; Feb. 8; Sp. p. 2201; Gaz. vol. 151; p. 373.
Ehrlich, Leo, assignor to U. S. Mail Chute Equipment Company, St. Louis, Mo. Closure for mail-receiving apertures. No. 951,182; Mar. 8; Sp. p. 1453; Gaz. vol. 152; p. 263.
Ehrlich, Leo, assignor to United States Mail Chute Equipment Company, St. Louis, Mo. Mail-chute. No. 963,534; July 5; Sp. p. 1150; Gaz. vol. 156; p. 175.
Ehrlich, M. J. (See Hopkins, William W., assignor.)
Ehrlich, Paul, and E. Schmitz, Frankfort-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arsenoarylglycollic acids. No. 963,126; July 5; Sp. p. 260; Gaz. vol. 156; p. 35.
Ehrsam, William J. (See Morscher, Lawrence N., assignor.)
Ehrsam, William J., *et al.*, trustees. (See Ehrsam, Sieder, and Morscher, assignors.)
Ehrsam, William J., *et al.*, trustees. (See Morscher, Lawrence N., assignor.)

Alphabetical list of patentees—Continued.

Ehrsam, William J., E. H. Sieder, Enterprise, and L. N. Morscher, Lawrence, Kans., assignors to said Ehrsam and Morscher, cotrustees. Throwing-wheel for graders. No. 976,350; Nov. 22; Sp. p. 5026; Gaz. vol. 160; p. 853.
Eiane, Halvor O., U. S. Navy. Flying-machine. No. 964,957; July 19; Sp. p. 4255; Gaz. vol. 156; p. 711.
Eichberg, Maurice H. (See Hirsch and Eichberg.)
Eiche, Frederick, Lincoln, Nebr. Clothes-line reel. No. 973,266; Oct. 18; Sp. p. 3877; Gaz. vol. 159; p. 663.
Eichhorn, George J., Dubuque, Iowa. Box. No. 960,220; May 31; Sp. p. 8200; Gaz. vol. 154; p. 1381.
Eichmann, Henry P. A. A., assignor of one-half to C. F. Lehman, Corona, N. Y. Hollow fireproof door. No. 972,102; Oct. 4; Sp. p. 1270; Gaz. vol. 159; p. 215.
Eichorn, Frank G., assignor to Henry Conolly Company, Rochester, N. Y. Loose-leaf binder. No. 948,502; Feb. 8; Sp. p. 1527; Gaz. vol. 151; p. 269.
Eichler, Carl P., Lakewood, Ohio. Sad-iron handle. No. 968,923; Aug. 30; Sp. p. 6579; Gaz. vol. 157; p. 1146.
Eichman, Emil, Detroit, Mich. Flushing-tank. No. 958,105; May 17; Sp. p. 3620; Gaz. vol. 154; p. 610.
Eichwede, Heinrich. (See Ernst and Eichwede.)
Eick, Otto, Baltimore, Md. Apparatus for cleansing bottles. No. 947,151; Jan. 18; Sp. p. 4722; Gaz. vol. 150; p. 780.
Eick, Otto, Baltimore, Md. Bottle-washing apparatus. No. 956,056; Apr. 26; Sp. p. 5117; Gaz. vol. 153; p. 903.
Eickershoff, John H., Dusseldorf, Germany. Mine-prop. No. 969,851; Sept. 13; Sp. p. 1539; Gaz. vol. 158; p. 264.
Eickhoff, John C., Blackcreek, Wis. Curd-cutting machine. No. 979,835; Dec. 27; Sp. p. 5249; Gaz. vol. 161; p. 908.
Eidam, Marie J., Chicago, Ill. Spool-holder. No. 973,861; Oct. 25; Sp. p. 5130; Gaz. vol. 159; p. 891.
Eide, Mathias, Clinton, Minn. Weaner. No. 975,680; Nov. 15; Sp. p. 3576; Gaz. vol. 160; p. 602.
Eigner, Emil, New York, N. Y. Apparatus for cutting paper into strips and printing scales thereon. No. 953,742; Apr. 5; Sp. p. 120; Gaz. vol. 153; p. 24.
Eiler, John W., Chicago, Ill. Slug-detector. No. 968,648; Aug. 30; Sp. p. 5986; Gaz. vol. 157; p. 1053.
Eilertsen, Lucien, Paris, France. Antiseptic and perfumed block. No. 975,405; Nov. 15; Sp. p. 2979; Gaz. vol. 160; p. 506.
Eilhauer, Oskar, Neustadt-on-the-Orla, Germany. Contrivance for the tension of weft-wire with wire-gage looms. No. 964,150; July 12; Sp. p. 2469; Gaz. vol. 156; p. 405.
Eilhauer, Oskar, Neustadt-on-the-Orla, Germany. Lay-motion. No. 972,835; Oct. 18; Sp. p. 2878; Gaz. vol. 159; p. 512.
Einig, William A., Jacksonville, Fla. Sparking plug. No. 968,333; Aug. 23; Sp. p. 5331; Gaz. vol. 157; p. 918.
Einstein, Max, Hamburg, Germany. Type-writer attachment. No. 971,736; Oct. 4; Sp. p. 481; Gaz. vol. 159; p. 83.
Einstein, Robert E., assignor to St. Louis Frog & Switch Company, St. Louis, Mo. Switch-rod. No. 951,107; Mar. 8; Sp. p. 1308; Gaz. vol. 152; p. 240.
Einstein, Robert E., assignor to St. Louis Frog & Switch Company, St. Louis, Mo. Adjustable guard-rail clamp. No. 960,858; June 7; Sp. p. 1247; Gaz. vol. 155; p. 208.
Einstein, Samuel S. (See Salomon, Max and G., assignors.)
Einstein, Sol. (See De Leeuw and Einstein.)
Eirich, Gustav, Hardheim, Germany. Mixing-machine. No. 958,608; May 17; Sp. p. 4775; Gaz. vol. 154; p. 783.
Eisele, Michael, West Carrollton, Ohio. Trolley-guard. No. 976,859; Nov. 29; Sp. p. 6119; Gaz. vol. 160; p. 1054.
Eiselt, Emil, Baltimore, Md. Automatic emergency-brake for automobiles. No. 979,938; Dec. 27; Sp. p. 5453; Gaz. vol. 161; p. 942.
Eiseman, Jesse B., New York, N. Y., assignor, by mesne assignments, to Manhattan Braid Company. Holder for darning-silk. No. 962,949; June 28; Sp. p. 5681; Gaz. vol. 155; p. 995.
Eisemann, Ernst, Stuttgart, Germany. Ignition apparatus. No. 953,990; Apr. 5; Sp. p. 614; Gaz. vol. 153; p. 109.
Eisenhart, Henry W., assignor to A. B. Farquhar Company, Limited, York, Pa. Pivot-axle cultivator. No. 958,609; May 17; Sp. p. 4776; Gaz. vol. 154; p. 784.
Eisenhuth, James E., assignor to W. J. Herscher, Buckingham, Ill. Overhead carrier. No. 959,487; May 31; Sp. p. 6636; Gaz. vol. 154; p. 1131.
Eisenkramer, Oscar, New York, N. Y. Closer for garments. No. 955,637; Apr. 19; Sp. p. 4199; Gaz. vol. 153; p. 730.
Eisenmann, Carl W., Kansas City, Mo. Safety device for electric lamps. No. 955,777; Apr. 19; Sp. p. 4498; Gaz. vol. 153; p. 777.
Eisenstein, Simon. (See Schönberg, Isaac, assignor.)
Eisenstein, Simon, Kiew, Russia. Apparatus for generating undamped electric oscillations. No. 950,257; Feb. 22; Sp. p. 5265; Gaz. vol. 151; p. 923.
Eisenstein, Simon, Kiew, Russia. Electric connection for multiple wireless telegraphy. No. 950,258; Feb. 22; Sp. p. 5267; Gaz. vol. 151; p. 924.
Eisenstein, Simon, Kief, Russia. Apparatus for strengthening electric vibrations. No. 965,884; Aug. 2; Sp. p. 71; Gaz. vol. 157; p. 14.
Eisner, Abraham, assignor of one-half to R. M. Sunasack, Chicago, Ill. Razor-strop clamp. No. 971,432; Sept. 27; Sp. p. 4830; Gaz. vol. 158; p. 845.
Eitner, Berthold. (See Gohlke and Eitner.)
Eitner, Berthold, Berlin, Germany. Ball-grinding machine. No. 977,717; Dec. 6; Sp. p. 668; Gaz. vol. 161; p. 102.
Eitner, Berthold, Berlin, Germany. Ball-grinding machine. No. 977,718; Dec. 6; Sp. p. 669; Gaz. vol. 161; p. 103.
Eitner, Berthold, Berlin, Germany. Ball-grinding machine. No. 977,719; Dec. 6; Sp. p. 670; Gaz. vol. 161; p. 103.
Eitner, Berthold, Berlin, Germany. Ball-bearing cage. No. 980,082; Dec. 27; Sp. p. 5754; Gaz. vol. 161; p. 989.
Ekedahl, Erik A., assignor to Art Metal Construction Company, Jamestown, N. Y. Door-frame. No. 958,795; May 24; Sp. p. 5182; Gaz. vol. 154; p. 872.
Ekedahl, Melcher. (See Beskow and Ekedahl.)
Ekelund, John A., assignor of one-half to J. F. Williamson, Minneapolis, Minn. Toy base-ball-game apparatus. No. 959,427; May 24; Sp. p. 6470; Gaz. vol. 154; p. 1084.
Ekelund, Nils K. H., Jönköping, Sweden. Apparatus for drying and charring materials. No. 951,804; Mar. 15; Sp. p. 2734; Gaz. vol. 152; p. 499.
Ekelund, Nils K. H., Jönköping, Sweden. Igniting-furnace for pulverous fuel. No. 960,292; June 7; Sp. p. 103; Gaz. vol. 155; p. 20.
Ekleberry, Joseph O., assignor of one-half to L. R. Milum, Upper Sandusky, Ohio. Baling-press. No. 946,209; Jan. 11; Sp. p. 2633; Gaz. vol. 150; p. 438.
Eklund, August, Spokane, Wash. Chemical compound. No. 970,898; Sept. 20; Sp. p. 3767; Gaz. vol. 158; p. 643.
Eklund, Paul J., Minneapolis, Minn. Garment-supporter. No. 973,017; Oct. 18; Sp. p. 3324; Gaz. vol. 159; p. 578.
Ekstrand, John J., Des Moines, Iowa. Locomotive-engine seat and cabinet. No. 950,441; Feb. 22; Sp. p. 5607; Gaz. vol. 151; p. 983.
Ekström, Alfred, Stockholm, Sweden. Intercommunicating telephone system. No. 969,095; Aug. 30; Sp. p. 6918; Gaz. vol. 157; p. 1205.
Ekström, Gösta, Limhamn, Sweden. Making grape-sugar. No. 970,029; Sept. 13; Sp. p. 1923; Gaz. vol. 158; p. 326.
Ekstrom, Roy P., Elm Creek, Nebr. Paper-hanging machine. No. 946,821; Jan. 18; Sp. p. 4054; Gaz. vol. 150; p. 672.
Ekströmer, Melcher, Cambridge, assignor to J. C. Kent, trustee, Boston, Mass. Vent-tube for storage batteries. No. 971,737; Oct. 4; Sp. p. 481; Gaz. vol. 159; p. 83.
Ekwurzel, Otto L., and J. D. De Ramus, Fayette, Ala. Cotton-scraper. No. 967,005; Aug. 9; Sp. p. 2525; Gaz. vol. 157; p. 415.
El Buen Tono S. A. (See Pugibet, Ernest, assignor.)
El Campo Machine Company. (See Gray, William T., assignor.)
Elam, William E., Washington, D. C. Tobacco-pipe. No. 951,308; Mar. 8; Sp. p. 1720; Gaz. vol. 152; p. 303.
Elbel, Karl, assignor to Kalle & Company, Aktiengesellschaft, Biebrich, Germany. Nitro-ortho-oxy-azo colors and making same. No. 958,912; May 24; Sp. p. 5459; Gaz. vol. 154; p. 915.
Elbel, Karl, assignor to The Firm of Kalle & Company, Aktiengesellschaft, Biebrich, Germany. Condensing reduction products of acenaphthene-quinone, &c. No. 965,170; July 26; Sp. p. 4683; Gaz. vol. 156; p. 812.
Elbrecht, Oscar H., assignor to The Meier Dental Manufacturing Company, St. Louis, Mo. Apparatus for heating and applying liquids. No. 954,945; Apr. 12; Sp. p. 2737; Gaz. vol. 153; p. 463.
Elbs, John G. (See Jenne, Henry S., assignor.)
Elder, Oscar B., assignor of one-half to G. Braithwaite, Chicopee Falls, Mass. Boring-tool. No. 963,022; June 28; Sp. p. 5824; Gaz. vol. 155; p. 1019.
Elder, Robert D. (See Hurl, Charles W., assignor.)
Elder, Robert W., Finch, W. Va. Valve. No. 966,390; Aug. 2; Sp. p. 1127; Gaz. vol. 157; p. 182.
Elder, Samuel B., Warsaw, Ohio. Wire-stretcher. No. 950,098; Feb. 22; Sp. p. 4929; Gaz. vol. 151; p. 867.
Elder, Thomas J., Pilot Point, Tex. Ice-box. No. 973,416; Oct. 18; Sp. p. 4200; Gaz. vol. 159; p. 715.
Elderkin, John, and F. Rose, Philadelphia, Pa. Spraying device for leather-working machinery. No. 971,365; Sept. 27; Sp. p. 4714; Gaz. vol. 158; p. 824.
Elderkin, Lester L. D., Roxbury, Mass. Winding-indicator for watches. No. 966,671; Aug. 9; Sp. p. 1779; Gaz. vol. 157; p. 304.
Eldred, Byron E., Bronxville, N. Y. Metallurgical heating. No. 968,238; Aug. 23; Sp. p. 5128; Gaz. vol. 157; p. 883.
Eldred, Howard M., Milwaukee, Wis. Automatic electrical signaling system. No. 956,057; Apr. 26; Sp. p. 5127; Gaz. vol. 153; p. 904.
Eldridge, Francis R., New York, N. Y. Hammock-hook. No. 976,253; Nov. 22; Sp. p. 4808; Gaz. vol. 160; p. 822.
Eldridge, Hilliary. (See Rockey and Eldridge.)
Eldridge, John, assignor to Astoria Iron Works, Astoria, Oreg. Can-heading machine. No. 950,017; Feb. 22; Sp. p. 4780; Gaz. vol. 151; p. 841.

Alphabetical list of patentees—Continued.

Eldridge, Reuben C., Niagara Falls, Ontario, Canada, and D. C. Breed, Lockport, assignors to Niagara Falls Ice Cream Freezer Company, Niagara Falls, N. Y. Ice-cream freezer. No. 974,761; Nov. 1; Sp. p. 1545; Gaz. vol. 160; p. 238.
Eldridge, Roy K., Quincy, Mich. Game apparatus. No. 951,805; Mar. 15; Sp. p. 2736; Gaz. vol. 152; p. 500.
Electrelle Company. (See Smith, Irving B., assignor.)
Electric Accumulator Company, The. (See Reeves, Frederick W., assignor.)
Electric Bank Protection Company. (See Williams, John P., assignor.)
Electric Bank Protection Company. (See Williams and Huhn, assignors.)
Electric Boat Company. (See Cable and Bailey, assignors.)
Electric Boat Company. (See Davison, Gregory C., assignor.)
Electric Boat Company. (See Spear, Lawrence Y., assignor.)
Electric Compositor Company. (See Bellows and Luttropp, assignors.)
Electric Controller and Manufacturing Company, The. (See Connelly, William M., assignor.)
Electric Controller and Manufacturing Company, The. (See Hall, Jay H., assignor.)
Electric Controller and Manufacturing Company, The. (See Schnabel, James F., assignor.)
Electric Controller and Supply Company, The. (See Motz, Jacob F., assignor.)
Electric Gas Motor Car Company *et al.* (See Mayo, William C., assignor.)
Electric Goods Manufacturing Company. (See Lincoln, Edwin S., assignor.)
Electric Goods Manufacturing Company. (See Thomson, Henry C., assignor.)
Electric Installation Company of New York. (See Pratt and Pates, assignors.)
Electric Machinery Company. (See Hibbard, Charles T., assignor.)
Electro Mechanical Works. (See Koltonski, Stanislaw A., assignor.)
Electric Metals Company. (See Snyder, Frederick T., assignor.)
Electric Press Bulletin Company. (See Campbell and Davis, assignors.)
Electric Press Bulletin Company. (See Davis, Harry G., assignor.)
Electric Protection Company of New York. (See Goldstein, Albert, assignor.)
Electric Railway Improvement Company, The. (See Cadle, Charles L., assignor.)
Electric Railway Improvement Company, The. (See Cleveland, William B., assignor.)
Electric Railway Improvement Company, The. (See Neff, William A., assignor.)
Electric Renovator Manufacturing Company. (See Noe, Amon T., assignor.)
Electric Service Supplies Company. (See Knight, Frank P. H., assignor.) (Reissue.)
Electric Service Supplies Company. (See Mason, Edward R., assignor.)
Electric Shoe Polisher Company, The. (See Brewer, John A., assignor.)
Electric Signagraph and Semaphore Co., The (See Webb, Jean F., Jr., assignor.)
Electric Speedometer and Dynamometer Manufacturing Company, The. (See Hopkins, Nevil M., assignor.)
Electric Storage Battery Company, The. (See Adam, Antoine, assignor.)
Electric Storage Battery Company, The. (See Entz, Justus B., assignor.)
Electric Storage Battery Company, The. (See Flanders, Louis H., assignor.)
Electro Ad Company, The. (See Phelps, William J., assignor.)
Electro-Curo Company, The. (See West, Charles W., assignor.)
Electro Dental Manufacturing Company. (See Russell and Schramm, assignors.)
Electro-Magnetic Tool Company. (See Rowe, George H., assignor.)
Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
Electro Metallurgical Company. (See Edmands, Isaac R., assignor.)
Electro Metallurgical Company. (See Harrison, Herbert C., assignor.)
Electro Steel Company of Canada, The. (See Ramage, Alexander S., assignor.)
Electro Surgical Instrument Company. (See Keip, Herman A., assignor.)
Electrolite Gas Lamp Company. (See Beck, Charles W., assignor.)
Elektrochemische Werke G. m. b. H. (See Wiens, Arnold, assignor.)
Elevator Safety Equipment Company. (See McNaught, Harry W., assignor.)
Elfborg, Henry G., Chicago, Ill. Railway-crossing. No. 979,479; Dec. 27; Sp. p. 4445; Gaz. vol. 161; p. 785.
Elger, Franz, Basel, Switzerland. Compound of guaiacol and making same. No. 951,634; Mar. 8; Sp. p. 2379; Gaz. vol. 152; p. 412.
Elger, Wm. D. (See Fefel, Henry H. and J. E., assignors.)
Elgin, A. W., trustee. (See Dill, Frederick W., assignor.)
Elgin Eyeglass Reel Co. (See Wedell, Otto B., assignor.)
Elia, Giovanni E., Paris, France. Ship or vessel. No. 966,813; Aug. 9; Sp. p. 2137; Gaz. vol. 157; p. 352.
Elias, Owen O. (See Gibberd and Elias.)
Elite Manufacturing Company, The. (See Burkholder, John H., assignor.)
Elkin, Jo P. G., Maplewood, Mo. Receptacle. No. 978,569; Dec. 13; Sp. p. 2507; Gaz. vol. 161; p. 428.
Elkin, John R., Greenville, S. C. Type-writer-shipping case. No. 960,524; June 7; Sp. p. 570; Gaz. vol. 155; p. 94.
Elkins, Stephen F., assignor to The Manufacturers' Sales Co., Pittsburg, Pa. Shade-holder for inverted gas-burners. No. 960,630; June 7; Sp. p. 803; Gaz. vol. 155; p. 132.
Ellenburg, James C. (See Bounds and Ellenburg.)
Ellendman, Jacob, assignor of one-third to O. Goldschlag and one-third to J. H. Kornblueh, New York, N. Y. Life-preserver. No. 945,768; Jan. 11; Sp. p. 1693; Gaz. vol. 150; p. 284.
Ellerton, George C., Portsmouth, Va. Steam-trap. No. 951,063; Mar. 1; Sp. p. 1212; Gaz. vol. 152; p. 199.
Ellertson, Even E. (See Wold, Carl O., assignor.)
Ellett, Frederick S. (See Forsyth and Ellett.)
Ellett, Luther S., Celina, Tex. Cultivator. No. 976,729; Nov. 22; Sp. p. 5808; Gaz. vol. 160; p. 984.
Ellinger, Julian O., New York, N. Y. Reinforcement for concrete construction. No. 952,891; Mar. 22; Sp. p. 4969; Gaz. vol. 152; p. 894.
Ellingham, Robert W., *et al.* (See Stowell, Byron F., assignor.)
Ellingson, John O., Cambridge, Nebr., assignor of one-half to A. B. Stout. Photographic-print-drying apparatus. No. 956,319; Apr. 26; Sp. p. 5718; Gaz. vol. 153; p. 995.
Ellingson, John O., and A. B. Stout, Cambridge, Nebr. Flash-lamp. No. 955,857; Apr. 26; Sp. p. 4692; Gaz. vol. 153; p. 834.
Ellington, Edmund W., Owensboro, Ky. Air-grate cover. No. 978,718; Dec. 13; Sp. p. 2823; Gaz. vol. 161; p. 479.
Elliot, Charles, San Francisco, Cal. Coin-controlled stamp-vending machine. No. 965,996; Aug. 2; Sp. p. 325; Gaz. vol. 157; p. 53.
Elliott, Alvin D., deceased; M. E. Elliott, Lawrence, Mass., executrix, assignor to United Shoe Machinery Company, Paterson, N. J. Shield for tools. No. 956,573; May 3; Sp. p. 146; Gaz. vol. 154; p. 25.
Elliott, Butler F., Gotebo, and J. L. Summers, Fort Cobb, Okla. Road-grading machine. No. 953,085; Mar. 29; Sp. p. 5387; Gaz. vol. 152; p. 988.
Elliott, Charles W., New Albany, Ind. Wood-bending machine. No. 960,525; June 7; Sp. p. 579; Gaz. vol. 155; p. 95.
Elliott, Clayton B., Danville, Ill. Cistern-form. No. 949,172; Feb. 15; Sp. p. 2922; Gaz. vol. 151; p. 518.
Elliott, David J., Monte Vista, Colo. Gang-plow. No. 957,149; May 3; Sp. p. 1376; Gaz. vol. 154; p. 220.
Elliott, David J., and W. W. Reilly, Monte Vista, Colo. Locking device for automobile steering-wheels. No. 972,605; Oct. 11; Sp. p. 2392; Gaz. vol. 159; p. 408.
Elliott, David J., and W. W. Reilly, Monte Vista, Colo. Head-gate lock. No. 976,254; Nov. 22; Sp. p. 4810; Gaz. vol. 160; p. 822.
Elliott, Edward L., and W. H. Schroeder, Coquille, Oreg. Folding bedstead. No. 971,433; Sept. 27; Sp. p. 4831; Gaz. vol. 158; p. 845.
Elliott-Fisher Company. (See Smith, John A., assignor.)
Elliott-Fisher Company. (See Turley, Patrick H., assignor.)
Elliott, George C., assignor to National Cotton Harvester Company, Chicago, Ill. Cotton-harvester. No. 964,958; July 19; Sp. p. 4257; Gaz. vol. 156; p. 712.
Elliott, Graham B., Barton, Vt. Bed-spring tightener. No. 952,730; Mar. 22; Sp. p. 4632; Gaz. vol. 152; p. 839.
Elliott, Graham B., Barton, Vt. Penholder and pen therefor. No. 970,315; Sept. 13; Sp. p. 2507; Gaz. vol. 158; p. 422.
Elliott, Howard R., Billings, Mont. Gate-latch. No. 960,859; June 7; Sp. p. 1248; Gaz. vol. 155; p. 209.
Elliott, Howard R., Billings, Mont. Gate-latch. No. 961,691; June 14; Sp. p. 2987; Gaz. vol. 155; p. 518.
Elliott, John, Barnsley, England. Device for paying out paper to and winding up paper from adding and like machines. No. 973,018; Oct. 18; Sp. p. 3325; Gaz. vol. 159; p. 578.
Elliott, John R., Camden, N. J. Book-display leaf-turner. No. 954,272; Apr. 5; Sp. p. 1219; Gaz. vol. 153; p. 204.
Elliott, Lucius J. (See Beebe, Charles S., assignor.)
Elliott, Mary E., executrix. (See Elliott, Alvin D.)
Elliott, Richard D., Hertford, N. C. Cultivator and attachment. No. 951,238; Mar. 8; Sp. p. 1560; Gaz. vol. 152; p. 280.
Elliott, Roderic S., Laona, and G. Cook, Gillett, Wis. Safe. No. 960,293; June 7; Sp. p. 104; Gaz. vol. 155; p. 21.

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Elliott, Sterling, Newton, Mass. Tubular steam-boiler. No. 948,373; Feb. 8; Sp. p. 1249; Gaz. vol. 151; p. 226.
Elliott, Thomas H., assignor to Selma Fruit Company, Inc., Selma, Cal. Raisin-seeder. No. 962,201; June 21; Sp. p. 4119; Gaz. vol. 155; p. 715.
Elliott, William. (See Dempster and Elliott.)
Elliott, William, and R. H. Schlachter, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Draft-equalizer. No. 947,893; Feb. 1; Sp. p. 246; Gaz. vol. 151; p. 40.
Elliott, William, and R. H. Schlachter, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Draft-equalizer. No. 947,894; Feb. 1; Sp. p. 248; Gaz. vol. 151; p. 41.
Elliott, William, R. H. Schlachter, and A. L. Tolles, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Draft-equalizer. No. 979,387; Dec. 20; Sp. p. 4244; Gaz. vol. 161; p. 731.
Elliott, William E., Grand Rapids, Mich. Power-operated machine for setting staples. No. 945,769; Jan. 11; Sp. p. 1696; Gaz. vol. 150; p. 284.
Elliott, Willam E., Grand Rapids, Mich. Treadle-operated machine for setting staples. No. 945,770; Jan. 11; Sp. p. 1698; Gaz. vol. 150; p. 285.
Elliott, William E., Sault Ste. Marie, Mich. Wrench. No. 963,700; July 5; Sp. p. 1480; Gaz. vol. 156; p. 230.
Elliott, William E., Liverpool, England, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine. No. 973,181; Oct. 18; Sp. p. 3701; Gaz. vol. 159; p. 635.
Elliott, William G. (See Alison and Elliott.)
Elliott, William R., Somerset, assignor of one-fourth to B. J. Boland, one-fourth to W. R. Elliott, one-fourth to S. W. Hicks, and one-fourth to D. Brown, Pulaski, Ky. Brake for elevators. No. 949,526; Feb. 15; Sp. p. 3657; Gaz. vol. 151; p. 637.
Elliott, William S., Pittsburg, Pa. Twin strainer. No. 962,202; June 21; Sp. p. 4120; Gaz. vol. 155; p. 715.
Elliott, William S., Pittsburg, Pa. Strainer. No. 974,044; Oct. 25; Sp. p. 5516; Gaz. vol. 159; p. 956.
Elliott, William S., Pittsburg, Pa. Trap. No. 977,943; Dec. 6; Sp. p. 1129; Gaz. vol. 161; p. 181.
Ellis, Alexander T., Boise, Idaho. Blind for fireproof buildings. No. 962,011; June 21; Sp. p. 3680; Gaz. vol. 155; p. 647.
Ellis, Alfred J., Woodcliff-on-Hudson, N. J. Window construction. No. 963,363; July 5; Sp. p. 799; Gaz. vol. 156; p. 118.
Ellis, Alvirus L., Chicago, Ill. Toggle-bolt. No. 965,845; July 26; Sp. p. 6154; Gaz. vol. 156; p. 1043.
Ellis, Arthur A., Minden, Ontario, Canada. Belt-protector. No. 974,780; Nov. 8; Sp. p. 1593; Gaz. vol. 160; p. 268.
Ellis, Axel E., Quincy, Mass. Massage-vibrator. No. 976,993; Nov. 29; Sp. p. 6450; Gaz. vol. 160; p. 1101.
Ellis, Axel E., assignor to Steel Cushion Tire Company, Boston, Mass. Vehicle-wheel. No. 972,606; Oct. 11; Sp. p. 2393; Gaz. vol. 159; p. 409.
Ellis, Calvin J., assignor to The Cameragraph Company, Kansas City, Mo. Copy-holder. No. 978,719; Dec. 13; Sp. p. 2824; Gaz. vol. 161; p. 479.
Ellis, Carleton, Larchmont, N. Y. Fertilizer. No. 976,793; Nov. 22; Sp. p. 5962; Gaz. vol. 160; p. 1007.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Making filamentous lead. No. 953,196; Mar. 29; Sp. p. 5634; Gaz. vol. 152; p. 1024.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Plaster composition. No. 955,953; Apr. 26; Sp. p. 4910; Gaz. vol. 153; p. 867.
Ellis, Carleton, Larchmont, N. Y., assignor to Fulton Chemical Company. Linen-smoother. No. 956,693; May 3; Sp. p. 426; Gaz. vol. 154; p. 68.
Ellis, Carleton, White Plains, assignor to Chadeloid Chemical Company, New York, N. Y. Paint or varnish remover. No. 956,320; Apr. 26; Sp. p. 5722; Gaz. vol. 153; p. 996.
Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Paint or varnish remover. No. 979,136; Dec. 20; Sp. p. 3748; Gaz. vol. 161; p. 649.
Ellis, Charles H., Hartsville, S. C. Drill attachment for manure-spreaders. No. 949,173; Feb. 15; Sp. p. 2926; Gaz. vol. 151; p. 518.
Ellis, Charles H., Nottingham, Ohio. Ironing-table. No. 954,565; Apr. 12; Sp. p. 1853; Gaz. vol. 153; p. 331.
Ellis, Charles P. (See O'Donohoe, Maurice P., assignor.)
Ellis, Charles P. (See O'Donohoe and Ellis.)
Ellis, Charles S., Chicago, Ill., assignor to Ellis Time Stamp Company. Time-stamp. No. 945,154; Jan. 4; Sp. p. 299; Gaz. vol. 150; p. 51.
Ellis, Claud D., *et al.* (See Lowe, Charles E., assignor.)
Ellis, Clifford A., Bayonne, N. J., assignor to Standard Oil Company of New York. Valve. No. 957,318; May 10; Sp. p. 1779; Gaz. vol. 154; p. 310.
Ellis, Ed. (See Dole and Ellis.)
Ellis, Edward L., Perry, Iowa. Game device. No. 953,903; Apr. 5; Sp. p. 434; Gaz. vol. 153; p. 79.
Ellis, Ferrand F., Oneida, N. Y. Automatic lubricator. No. 956,694; May 3; Sp. p. 428; Gaz. vol. 154; p. 68.
Ellis, Ferrand F., Oneida, N. Y. Shaft-collar. No. 977,720; Dec. 6; Sp. p. 671; Gaz. vol. 161; p. 103.

Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Ellis, Frank H., Chicago, Ill. Spring-hinge. No. 957,603; May 10; Sp. p. 2339; Gaz. vol. 154; p. 406.
Ellis, Frank H., Somerville, Mass., assignor to Barbour-Stockwell Company. Railway-switch structure. No. 976,056; Nov. 15; Sp. p. 4303; Gaz. vol. 160; p. 730.
Ellis, Frank I., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Pipe crushing and shearing machine. No. 955,117; Apr. 12; Sp. p. 3059; Gaz. vol. 153; p. 518.
Ellis, Frank O., Sandwich, Mass. Eye-shield. No. 951,473; Mar. 8; Sp. p. 2061; Gaz. vol. 152; p. 357.
Ellis, Frank R. (See Prescott, Ellis, and Jensen.)
Ellis, Frederick A., assignor to The Disc Boot Polish Company, Limited, Kennington, England. Receptacle for polishes. No. 968,752; Aug. 30; Sp. p. 6235; Gaz. vol. 157; p. 1090.
Ellis, Harry, Syracuse, N. Y. Kettle-cover. No. 947,098; Jan. 18; Sp. p. 4638; Gaz. vol. 150; p. 765.
Ellis, J. William, *et al.* (See Ferguson, Lyman, assignor.)
Ellis, James W., Denver, Colo. Electric street-indicating sign. No. 977,081; Nov. 29; Sp. p. 6637; Gaz. vol. 160; p. 1131.
Ellis, Thomas H., St. Louis, Mo. Cotton-chopper. No. 954,566; Apr. 12; Sp. p. 1854; Gaz. vol. 153; p. 331.
Ellis, Thomas W., Denison, Tex. Starting and stopping device for gas and other engines. No. 947,437; Jan. 25; Sp. p. 5413; Gaz. vol. 150; p. 907.
Ellis Time Stamp Company. (See Ellis, Charles S., assignor.)
Ellis, Walter C., *et al.* (See Lowe, Charles E., assignor.)
Ellis, William, Phoenixville, Pa. Accounting device. No. 978,995; Dec. 20; Sp. p. 3403; Gaz. vol. 161; p. 599.
Ellis, William C., Boston, Mass. Sewing-machine embroidering or darning foot. No. 948,683; Feb. 8; Sp. p. 1916; Gaz. vol. 151; p. 329.
Ellis, William J., Andrews, N. C. Steam-boiler furnace. No. 950,662; Mar. 1; Sp. p. 428; Gaz. vol. 152; p. 69.
Ellis, William J., Andrews, N. C. Air-pipe coupling. No. 950,663; Mar. 1; Sp. p. 430; Gaz. vol. 152; p. 70.
Ellis, William J., Andrews, N. C. Steam-boiler furnace. No. 950,664; Mar. 1; Sp. p. 432; Gaz. vol. 152; p. 70.
Ellis, William V., assignor to J. C. Blair Company, Huntingdon, Pa. Dumping or unpacking truck. No. 948,043; Feb. 1; Sp. p. 552; Gaz. vol. 151; p. 88.
Ellison, Frederick C., Charleston, W. Va. Combined manually and automatically actuated valve. No. 966,672; Aug. 9; Sp. p. 1781; Gaz. vol. 157; p. 305.
Ellison, John D., Rives, assignor of one-third to W. M. Turner and one-third to A. J. Harpole, Union City, Tenn. Harness-fastener. No. 966,322; Aug. 2; Sp. p. 995; Gaz. vol. 157; p. 160.
Ells, Hallett D., Kansas City, Mo. Dumping-wagon. No. 969,259; Sept. 6; Sp. p. 233; Gaz. vol. 158; p. 38.
Ells, Hallett D., assignor of one-fourth to H. M. Godard, Kansas City, Mo. Dumping-wagon. No. 969,258; Sept. 6; Sp. p. 232; Gaz. vol. 158; p. 38.
Ellsworth, Albert D., Broad Brook, Conn. Wagon. No. 970,436; Sept. 13; Sp. p. 2739; Gaz. vol. 158; p. 462.
Ellsworth, Augustus, Los Angeles, Cal. Shock-absorber. No. 968,753; Aug. 30; Sp. p. 6235; Gaz. vol. 157; p. 1090.
Ellsworth, Edward C. R., Toledo, Ohio. Furniture. No. 950,719; Mar. 1; Sp. p. 563; Gaz. vol. 152; p. 88.
Ellsworth, Edward C. R., Toledo, Ohio. Table. No. 953,823; Apr. 5; Sp. p. 285; Gaz. vol. 153; p. 50.
Ellsworth, Frank L., Wilkes-Barre, Pa. Refrigerator-latch. No. 968,334; Aug. 23; Sp. p. 5332; Gaz. vol. 157; p. 918.
Ellsworth, John M. (See Fay and Ellsworth.)
Ellsworth, John M., Bernardsville, N. J. Container for fishing apparatus. No. 952,314; Mar. 15; Sp. p. 3737; Gaz. vol. 152; p. 669.
Ellwood, George C., Arbuckle, Cal. Device for detecting waves in wireless telegraphy. No. 967,118; Aug. 9; Sp. p. 2779; Gaz. vol. 157; p. 455.
Elmborg, Axel, Ottumwa, Iowa. Drawer-guide. No. 962,502; June 28; Sp. p. 4782; Gaz. vol. 155; p. 842.
Elmer, Jonathan, Bridgeton, N. J. Shoe cleaning and polishing device. No. 951,389; Mar. 8; Sp. p. 1888; Gaz. vol. 152; p. 329.
Elmer, Matthew J., and J. Field, Pittsburg, Pa. Oven. No. 945,382; Jan. 4; Sp. p. 817; Gaz. vol. 150; p. 127.
Elphick, Thomas A., Castlenau, England. Ironing-machine. No. 972,521; Oct. 11; Sp. p. 2197; Gaz. vol. 159; p. 379.
Elsas, Louis J., Atlanta, Ga. Machine for feeding bags to printing or other machines. No. 976,255; Nov. 22; Sp. p. 4812; Gaz. vol. 160; p. 822.
Elsässer, Emil, Barmen-Rittershausen, Germany. Machine for spinning viscous liquids. No. 957,460; May 10; Sp. p. 2065; Gaz. vol. 154; p. 358.
Elsässische Maschinenbau-Gesellschaft. (See Frikart, Eugen, assignor.)
Elsmore, Alfred H., Eastbourne, England. Bow for stringed instruments. No. 961,589; June 14; Sp. p. 2796; Gaz. vol. 155; p. 483.
Elson, Herman I., Jeffersonville, Ind. Garment-fastener. No. 949,064; Feb. 15; Sp. p. 2710; Gaz. vol. 151; p. 482.
Elten, Alfred P. (See White and Elten.)

Alphabetical list of patentees—Continued.

Elten, Alfred P., assignor to E. E. Burlingame, New York, N. Y. Treating oil-wells. No. 956,058; Apr. 26; Sp. p. 5133; Gaz. vol. 153; p. 905.

Elvin, Albert G., Franklin, Pa. Flexible pipe-joint. No. 946,025; Jan. 11; Sp. p. 2254; Gaz. vol. 150; p. 375.

Elwell, Braden L., and W. Grimm, assignors to Interlocking Fence Company, Morton, Ill. Wire fence. No. 958,238; May 17; Sp. p. 3883; Gaz. vol. 154; p. 656.

Elwell, Braden L., W. Grimm, and W. F. Drexler, Jr., assignors to Interlocking Fence Company, Morton, Ill. Wire-fence machine. No. 980,083; Dec. 27; Sp. p. 5755; Gaz. vol. 161; p. 989.

Elwood Iron Works, The. (See Bond, George W., assignor.)

Elworthy, Herbert S., St. Albans, England. Manufacture of gas for illuminating, heating, or power purposes. No. 950,067; Feb. 22; Sp. p. 4868; Gaz. vol. 151; p. 857.

Ely, Benjamin, and A. Rollason, Pye Bridge, England. Treatment of coke. No. 972,352; Oct. 11; Sp. p. 1818; Gaz. vol. 159; p. 319.

Ely, Charles H., East Orange, N. J. Folding umbrella. 949,172; Feb. 15; Sp. p. 2922; Gaz. vol. 151; p. 518.

Ely, James, Summit, N. J., assignor, by mesne assignments, to Taylor Instrument Companies, Rochester, N. Y. Hydrometer. No. 964,628; July 19; Sp. p. 3488; Gaz. vol. 156; p. 596.

Ely, Lewellen A., Dayton, Ohio, assignor of one-fourth to W. H. Ennis and L. G. Ennis, Saginaw, Mich. Card-game apparatus. No. 957,872; May 17; Sp. p. 2910; Gaz. vol. 154; p. 527.

Ely, William A., *et al.* (See Hutchinson, Raleigh E., assignor.)

Elyria Iron and Steel Company. (See McKee, Willis, assignor.)

Elzas, Martin, Los Angeles, Cal. Mouthpiece for telephones. No. 946,725; Jan. 18; Sp. p. 3821; Gaz. vol. 150; p. 638.

Emanuel, Philip A., Aiken, S. C. Making aluminum fluorid and other aluminum compounds. No. 957,754; May 10; Sp. p. 2658; Gaz. vol. 154; p. 458.

Emanuel, Philip A., Aiken, S. C. Treating ores. No. 957,755; May 10; Sp. p. 2661; Gaz. vol. 154; p. 458.

Emanuel, Philip A., Aiken, S. C. Treating ores. No. 957,756; May 10; Sp. p. 2665; Gaz. vol. 154; p. 459.

Emanuel, Philip A., Aiken, S. C. Making sodium aluminate. No. 957,848; May 10; Sp. p. 2846; Gaz. vol. 154; p. 488.

Emanuel, Philip A., Aiken, S. C. Gas-making apparatus. No. 959,324; May 24; Sp. p. 6286; Gaz. vol. 154; p. 1051.

Embry, Clarence R., Wamego, Kans. Power-hammer. No. 977,082; Nov. 29; Sp. p. 6638; Gaz. vol. 160; p. 1131.

Embury Manufacturing Company. (See Hill, James H., assignor.)

Embury Manufacturing Company. (See Walker, Frederick L., assignor.)

Emden, Paul, and W. Fritz, Berlin, Germany. Means for securing turbine-blades. No. 958,239; May 17; Sp. p. 3884; Gaz. vol. 154; p. 656.

Emden, Paul, and W. Fritz, Berlin, Germany. Turbine. No. 974,956; Nov. 8; Sp. p. 2011; Gaz. vol. 160; p. 329.

Emden, Victor, and F. H. Dearborn, New York, N. Y. Automatic stopping device for motor-vehicles. No. 956,952; May 3; Sp. p. 992; Gaz. vol. 154; p. 155.

Emeny, Frederick J., assignor to The Deming Company, Salem, Ohio. Hydropneumatic pump. No. 953,003; Mar. 22; Sp. p. 5194; Gaz. vol. 152; p. 931.

Emer, Max, Vienna, Austria-Hungary. Safe having coin-operated lock. No. 971,366; Sept. 27; Sp. p. 4717; Gaz. vol. 158; p. 824.

Emerich, Leonard, Chicago, Ill. Mattress-display rack. No. 955,586; Apr. 19; Sp. p. 4079; Gaz. vol. 153; p. 712.

Emerick, Charles F., Dearing, Kans. Baby exerciser or jumper. No. 955,954; Apr. 26; Sp. p. 4911; Gaz. vol. 153; p. 867.

Emerick, George B. F., Joliet, Ill. Feed-bag. No. 957,046; May 3; Sp. p. 1178; Gaz. vol. 154; p. 187.

Emerick, George S., Nazareth, Pa. Grinding-mill. No. 964,224; July 12; Sp. p. 2605; Gaz. vol. 156; p. 429.

Emerson, Alfred H. (See Bentzon and Emerson.)

Emerson-Brantingham Co. (See Waterman, Lewis E., assignor.)

Emerson, Carl, and J. Peterson, Minneapolis, Minn. Axle-lubricator. No. 977,287; Nov. 29; Sp. p. 7073; Gaz. vol. 160; p. 1203.

Emerson, Charles J., Providence, R. I. Charging device for calorimeter-bombs. No. 959,488; May 31; Sp. p. 6638; Gaz. vol. 154; p. 1131.

Emerson, Charles J., Providence, R. I. Holder for calorimeter-bombs. No. 963,426; July 5; Sp. p. 931; Gaz. vol. 156; p. 139.

Emerson, Charles M., Columbus, Ohio. File-sharpening machine. No. 945,924; Jan. 11; Sp. p. 2048; Gaz. vol. 150; p. 341.

Emerson, Charles O. (See Raymond, Edgar F., assignor.)

Emerson, E. O., Jr., *et al.* (See Smith, Russell A., assignor.)

Emerson Electric Manufacturing Company. (See Finch, Herbert I., assignor.)

Emerson Electric Manufacturing Company. (See Meston and Finch, assignors.)

Emerson, Henry B., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 963,127; July 5; Sp. p. 261; Gaz. vol. 156; p. 35.

Emerson, John L., *et al.* (See Smith, Russell A., assignor.)

Emerson, Merton L., Braintree, Mass. Carrier for pneumatic-despatch-tube apparatus. No. 958,240; May 17; Sp. p. 3885; Gaz. vol. 154; p. 656.

Emerson, Merton L., Braintree, Mass. Carrier for pneumatic-despatch-tube apparatus. No. 977,083; Nov. 29; Sp. p. 6641; Gaz. vol. 160; p. 1132.

Emerson Piano Company. (See Crippen, Walter R., assignor.)

Emerson, Ralph W. (See Bishop, Frank, assignor.)

Emerson, Ralph W., and F. Bishop, South Bend, Ind. Gas-compressor. No. 962,203; June 21; Sp. p. 4121; Gaz. vol. 155; p. 715.

Emerson, Ralph W., and F. Bishop, South Bend, Ind. Refrigerating appliance. No. 962,704; June 28; Sp. p. 5217; Gaz. vol. 155; p. 911.

Emerson Typewriter Company, The. (See Eggebrecht, Otto, assignor.)

Emerson Typewriter Company. (See Sargent, Marshall B., assignor.)

Emerson Typewriter Company. (See Uhlig, Richard W., assignor.)

Emery, Frank E., New York, N. Y. Shoe for pressing-iron stands. No. 962,894; June 28; Sp. p. 5589; Gaz. vol. 155; p. 977.

Emery, Frederick H., Scranton, Pa. Slate-picking apparatus. No. 969,048; Aug. 30; Sp. p. 6823; Gaz. vol. 157; p. 1188.

Emery, Nathan S., and B. W. Gilchrist, Woodhaven, N. Y. Electroplating apparatus. No. 950,068; Feb. 22; Sp. p. 4871; Gaz. vol. 151; p. 857.

Emery, Plato G., Chicago, Ill. Shade-guide. No. 970,452; Sept. 13; Sp. p. 2775; Gaz. vol. 158; p. 467.

Emery, William H., assignor of one-half to R. F. Segsworth, Toronto, Ontario, Canada. Sewing-machine. No. 945,308; Jan. 4; Sp. p. 662; Gaz. vol. 150; p. 103.

Emley, Wilbur J. (See Service and Emley.)

Emmerson, John T., assignor of one-third to J. M. Stevens and one-third to A. Lawson, Edmundston, New Brunswick, Canada. Shaft-shifter. No. 979,751; Dec. 27; Sp. p. 5056; Gaz. vol. 161; p. 880.

Emmerson, William C. (See Wyman, Charles A., assignor.)

Emmert Manufacturing Company. (See Kuhn, Harry S., assignor.)

Emmert Manufacturing Company. (See Noyes, Henry F., assignor.)

Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. System of power distribution. No. 945,925; Jan. 11; Sp. p. 2050; Gaz. vol. 150; p. 341.

Emmett, John F., Adrian, Wash. Disk jointer for plows. No. 959,325; May 24; Sp. p. 6288; Gaz. vol. 154; p. 1052.

Emmett, Millie, Carbondale, Pa. Stove attachment. No. 967,354; Aug. 16; Sp. p. 3247; Gaz. vol. 157; p. 563.

Emmons, Harry D., Woodstock, and W. B. Emmons, Thornton, N. H. Device for fastening to concrete structures. No. 956,059; Apr. 26; Sp. p. 5136; Gaz. vol. 153; p. 905.

Emmons, Harry D., Woodstock, and W. B. Emmons, Thornton, N. H. Reinforced-concrete railway-tie. No. 970,316; Sept. 13; Sp. p. 2508; Gaz. vol. 158; p. 423.

Emmons, Harry D., Woodstock, and W. B. Emmons, Thornton, N. H. Fire-extinguisher system. No. 976,448; Nov. 22; Sp. p. 5243; Gaz. vol. 160; p. 890.

Emmons, Ralph W., East Rochester, Ohio. File-cabinet. No. 968,754; Aug. 30; Sp. p. 6237; Gaz. vol. 157; p. 1091.

Emmons, Willie B. (See Emmons, Harry D. and W. B.)

Empire Globe Company. (See Motz, Charles F., assignor.)

Empire Last Works. (See Schelter, George G., assignor.)

Empire Machine Company, The. (See Brockardt, Paul L., assignor.)

Empire Novelty Company, The. (See Ferguson, Harry C., assignor.)

Empire Paper Company. (See Pulsifer, John R., assignor.)

Empire Rubber Manufacturing Company. (See Bonner, William T., assignor.)

Empire Sash & Door Co. (See Lomberk and Theringer, assignors.)

Empire Voting Machine Company. (See Christensen, Christ, assignor.)

Empire Voting Machine Company. (See Dean, James H., assignor.)

Empire Voting Machine Company. (See Gillespie, Alfred J., assignor.)

Empire Voting Machine Company. (See Gillespie and Lausterer, assignors.)

Empire Voting Machine Company. (See Lausterer, William J., assignor.)

Empire Voting Machine Company. (See Lomb and Lausterer, assignors.)

Empire Voting Machine Company. (See McKenzie, Angus, assignor.)

Empire Voting Machine Company. (See Myers, Jacob H., assignor.)

Emrich, Alfred, Pforzheim, Germany. Bracelet-fastening. No. 960,079; May 31; Sp. p. 7937; Gaz. vol. 154; p. 1333.

Alphabetical list of patentees—Continued.

Emrich, Alfred, assignor to Firm of I. Emrich, Pforzheim, Germany. Cigar-cutter. No. 958,610; May 17; Sp. p. 4779; Gaz. vol. 154; p. 784.
Emrich, Firm of I. (See Emrich, Alfred, assignor.)
Emrick, Artenaous J. (See Heller and Emrick.)
Emrick, George W., assignor of one-half to R. H. Emrick, Brooklyn, N. Y. Dumb-waiter apparatus. No. 965,997; Aug. 2; Sp. p. 331; Gaz. vol. 157; p. 54.
Emrick, Rufus H. (See Emrick, George W., assignor.)
Emsheimer, Charles, New York, N. Y. Indicator. No. 970,200; Sept. 13; Sp. p. 2264; Gaz. vol. 158; p. 384.
Emslie, John R., Chicago, Ill. Window-ventilator. No. 947,060; Jan. 18; Sp. p. 4563; Gaz. vol. 150; p. 752.
Emslie, Paula C., Boston, Mass. Alarm device for culinary utensils. No. 957,663; May 10; Sp. p. 2473; Gaz. vol. 154; p. 427.
Emtman, Theodore, Los Angeles, Cal., assignor, by mesne assignments, to Concrete Appliances Company, St. Louis, Mo. Plant for concrete construction. No. 948,723; Feb. 8; Sp. p. 2003; Gaz. vol. 151; p. 343.
Enameled Metals Company. (See Patterson, John S., assignor.)
Enck, Charles E. (See Vanosdall and Enck.)
Endel, Albert, *et al.* (See Foster, Jackson W., assignor.)
Enderby, George, assignor of one-third to H. Johnson, Harrogate, England. Two-stroke-cycle internal-combustion engine. No. 955,144; Apr. 19; Sp. p. 3124; Gaz. vol. 153; p. 561.
Endicott, Franklin P., Marlton, N. J. Feed-box. No. 965,699; July 26; Sp. p. 5850; Gaz. vol. 156; p. 994.
Endless Chain Saw Co. (See Purser, Edward T., assignor.)
Enebo, Elias. (See Enebo, Josef and E.)
Enebo, Josef and E., Erie, Minn. Convertible sled and boat. No. 945,309; Jan. 4; Sp. p. 664; Gaz. vol. 150; p. 103.
Enequist, Erik W., New York, N. Y. Electric conductor for railways. No. 945,502; Jan. 4; Sp. p. 1074; Gaz. vol. 150; p. 166.
Enerson, Enoch T., La Crosse, Wis. Clothes line reel and pin box. No. 948,625; Feb. 8; Sp. p. 1797; Gaz. vol. 151; p. 308.
Engberg, Ephraim O., Salt Lake City, Utah, assignor to J. B. Patton, Kent, Ohio. Window-shade-roller support. No. 979,752; Dec. 27; Sp. p. 5057; Gaz. vol. 161; p. 880.
Engblom, Gustaf A. (See Bonnesen and Engblom.)
Enge, August, Klein-Helmsdorf, Germany. Slate-cleaner and sponge-pocket for school-slates. No. 968,924; Aug. 30; Sp. p. 6581; Gaz. vol. 157; p. 1146.
Engebretson, Elmer, Devils Lake, N. D. Steam-trap. No. 954,175; Apr. 5; Sp. p. 1015; Gaz. vol. 153; p. 172.
Engel, Carl. (See Engel, Oscar and C.)
Engel, Godfrey, Pittsburg, Pa. Boiler. No. 948,271; Feb. 1; Sp. p. 997; Gaz. vol. 151; p. 164.
Engel, Godfrey, Brooklyn, N. Y. Steam-boiler. No. 978,009; Dec. 6; Sp. p. 1262; Gaz. vol. 161; p. 202.
Engel, Henry, Holyoke, Mass. Electrical-battery holder. No. 950,845; Mar. 1; Sp. p. 819; Gaz. vol. 152; p. 131.
Engel, Karl, Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Forming the uppers of boots and shoes. No. 947,895; Feb. 1; Sp. p. 249; Gaz. vol. 151; p. 41.
Engel, Oscar and C., Sun Prairie, Wis. Spool-cabinet. No. 946,116; Jan. 11; Sp. p. 2434; Gaz. vol. 150; p. 405.
Engel, William B., Medina, Ohio. Corn-crib. No. 950,902; Mar. 1; Sp. p. 926; Gaz. vol. 152; p. 148.
Engelberg, Henry C., New York, N. Y. Lamp-bracket. No. 970,899; Sept. 20; Sp. p. 3768; Gaz. vol. 158; p. 648.
Engelhard, George P., and M. C. Reinig, Chicago, Ill. Sharpening device. No. 948,134; Feb. 1; Sp. p. 728; Gaz. vol. 151; p. 120.
Engelhardt, Frederick, St. Johnsville, N. Y. Combined spool and spool-holder for autopneumatic pianos and similar musical instruments. No. 968,035; Aug. 23; Sp. p. 4668; Gaz. vol. 157; p. 815.
Engelhardt & Sons, F. (See Carney, Edward D., assignor.)
Engelhardt & Sons, F. (See Hobart, Adam J., assignor.)
Engelhart, Adam, Baldwin, Ill. Shock-handling device. No. 965,092; July 19; Sp. p. 4533; Gaz. vol. 156; p. 755.
Engelman, Edward Y. B., Noxen, Pa. Table for leather-working machines. No. 978,120; Dec. 6; Sp. p. 1503; Gaz. vol. 161; p. 242.
Engelman, Julius R., Jersey City, N. J., assignor to H. A. Metz, Brooklyn, N. Y. Film-perforating machine. No. 978,121; Dec. 6; Sp. p. 1505; Gaz. vol. 161; p. 242.
Engelmann, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. New purin bases. No. 955,587; Apr. 19; Sp. p. 4080; Gaz. vol. 153; p. 712.
Engelmann, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Organic mercury compound. No 978,145; Dec. 13; Sp. p. 1585; Gaz. vol. 161; p. 281.
Engelsman, Monroe, New York, N. Y. Tweezers. No. 955,955; Apr. 26; Sp. p. 4912; Gaz. vol. 153; p. 868.
Engert, George J., and R. D. Burnham, Spokane, Wash. Sash-lock. No. 958,864; May 24; Sp. p. 5346; Gaz. vol. 154; p. 897.
Engholdt, Charles G. (See Streibich, John C., assignor.)
Engl, Gadient, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Making fast-gray prints, &c. No. 954,273; Apr. 5; Sp. p. 1220; Gaz. vol. 153; p. 204.
Engineering Instruments Limited. See Garside, Edmund, assignor.)
Engisch, Gustav, Berlin, Germany. Toy airship. No. 949,420; Feb. 15; Sp. p. 3457; Gaz. vol. 151; p. 604.
Engisch, Gustav, Berlin, Germany. Turbine. No. 973,929; Oct. 25; Sp. p. 5275; Gaz. vol. 159; p. 915.
England, Alexander, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Compound steam pumping-engine. No. 965,573; July 26; Sp. p. 5584; Gaz. vol. 156; p. 950.
England, Arthur E., Boston, assignor to A. A. Maxwell, trustee, Worcester, Mass. Ignition apparatus. No. 964,007; July 12; Sp. p. 2174; Gaz. vol. 156; p. 355.
England, Arthur E., Boston, assignor of one-half to J. A. Yantis, Malden, Mass., and one-half to F. P. Woodbury and W. D. Pulver, Salem, N. H. Valve for carbureters and other apparatus. No. 961,590; June 14; Sp. p. 2797; Gaz. vol. 155; p. 484.
England, James R., Chicago, Ill. Mail-discharging apparatus. No. 961,943; June 21; Sp. p. 3541; Gaz. vol. 155; p. 625.
England, James R., Dallas, Tex. Auto-organ. No. 977,084; Nov. 29; Sp. p. 6641; Gaz. vol. 160; p. 1132.
England, William H. (See Allfree and England.)
Englander Spring Bed Company, The. (See Kreuzkamp, August J., assignor.)
Engle, Charles T. (See Engle, George A. and C. T.)
Engle, George A. and C. T., Newton, Iowa. Cutting-mill. No. 949,116; Feb. 15; Sp. p. 2818; Gaz. vol. 151; p. 499.
Engle, Price, Albany, Ind. Fence-post mold. No. 950,756; Mar. 1; Sp. p. 635; Gaz. vol. 152; p. 102.
Engle, Walker D. (See Rennells and Engle.)
Engle, Washington J., Bloomingdale, Ind. Bit. No. 962,134; June 21; Sp. p. 3978; Gaz. vol. 155; p. 691.
Engle, William H., Tolstoy, S. D. System of bracing for traction-engines. No. 947,099; Jan. 18; Sp. p. 4639; Gaz. vol. 150; p. 765.
English, Abraham L., Everett, Wash. Loading and unloading apparatus. No. 949,981; Feb. 22; Sp. p. 4678; Gaz. vol. 151; p. 828.
English, Burt, Fort Des Moines, Iowa. Key-turner for electric lights. No. 963,535; July 5; Sp. p. 1153; Gaz. vol. 156; p. 176.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Sound-reproducing device. No. 947,227; Jan. 25; Sp. p. 4898; Gaz. vol. 150; p. 836.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Composition for sound-records and other objects. No. 948,314; Feb. 8; Sp. p. 1116; Gaz. vol. 151; p. 205.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Recording and reproducing sounds. No. 957,195; May 10; Sp. p. 1487; Gaz. vol. 154; p. 266.
English, Lorenzo R., Baltimore, Md. Washing-machine. No. 947,611; Jan. 25; Sp. p. 5817; Gaz. vol. 150; p. 966.
English & Mersick Co., The. (See Altmann, Frank C., assignor.)
English, Norman, Detroit, Mich. Ball-valve. No. 953,414; Mar. 29; Sp. p. 6107; Gaz. vol. 152; p. 1097.
English, Peter, Sathers Station, assignor to The Hydraulic Clutch Company, San Francisco, Cal. Clutch. No. 973,767; Oct. 25; Sp. p. 4939; Gaz. vol. 159; p. 859.
English, William J., New York, N. Y. Time-stamp. No. 970,201; Sept. 13; Sp. p. 2266; Gaz. vol. 158; p. 384.
English, William M., Sausalito, and H. M. Lichtenstein, San Francisco, Cal. Puncture-proof casing. No. 952,072; Mar. 15; Sp. p. 3264; Gaz. vol. 152; p. 588.
English, William M., and H. M. Lichtenstein, San Francisco, Cal. Antiseptic telephone-mouthpiece. No. 956,953; May 3; Sp. p. 994; Gaz. vol. 154; p. 156.
Engsberg, John B. (See Engsberg, Karl and J. B.)
Engsberg, Karl and J. B., West Hoboken, N. J. Compass-board for looms. No. 956,321; Apr. 26; Sp. p. 5723; Gaz. vol. 153; p. 996.
Engström, Axel E., Huskvarna, Sweden. Garden-rake. No. 962,559; June 28; Sp. p. 4920; Gaz. vol. 155; p. 862.
Engström, Axel E., Huskvarna, Sweden. Folding chair. No. 971,738; Oct. 4; Sp. p. 482; Gaz. vol. 159; p. 84.
Engstrom, Erick A., Hill, Mont. Lace-hook. No. 962,326; June 21; Sp. p. 4379; Gaz. vol. 155; p. 756.
Engström, Frans W., Nybro, Sweden. Machine for molding threaded objects. No. 961,944; June 21; Sp. p. 3543; Gaz. vol. 155; p. 625.
Engstrom, Ivan, Chicago, Ill. Electrical musical instrument. No. 964,503; July 19; Sp. p. 3199; Gaz. vol. 156; p. 554.
Engstrom, Jacob B., and O. J. Page, Manchester, Iowa. Replanting attachment for cultivators. No. 965,801; July 26; Sp. p. 6064; Gaz. vol. 156; p. 1028.
Enkopings Mekaniska Verkstads Aktiebolag. (See Johansson, Johan P., assignor.)
Ennis, Charles E., Trinidad, Colo. Railway-crossing frog. No. 955,145; Apr. 19; Sp. p. 3125; Gaz. vol. 153; p. 561.
Ennis, John J. (See Bittlinger and Ennis.)

Alphabetical list of patentees—Continued.

Ennis, John L., assignor to The Reading Saddle and Mf'g. Co., Reading, Pa. Sad-iron. No. 971,125; Sept. 27; Sp. p. 4219; Gaz. vol. 158; p. 745.
Ennis, Joseph B., Paterson, N. J., and H. F. Ball, New York, N. Y. Locomotive ash-pan. No. 954,274; Apr. 5; Sp. p. 1221; Gaz. vol. 153; p. 204.
Ennis, Lillie G., *et al.* (See Ely, Lewellen A., assignor.)
Ennis, Robert J., Jenny Lind, Cal. Carbureter. No. 955,956; Apr. 26; Sp. p. 4914; Gaz. vol. 153; p. 868.
Ennis, William H., *et al.* (See Ely, Lewellen A., assignor.)
Eno, Frank F., Boston, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Work-gage for fastener-inserting machines. No. 945,310; Jan. 4; Sp. p. 666; Gaz. vol. 150; p. 104.
Eno, Frank F., Forest Hills, assignor to T. G. Plant, Boston, Mass. Counter-guard for heel-shaving machines. No. 957,94? ; May 17; Sp. p. 3075; Gaz. vol. 154; p. 551.
Enoch, Rupert H., and J. Taylor, Ittabena, Miss. Coloring composition. No. 963,037; July 5; Sp. p. 19; Gaz. vol. 156; p. 5.
Enochs, Claude D., La Crosse, Wis. Telephone-receiver. No. 949,116; Feb. 15; Sp. p. 2818; Gaz. vol. 151; p. 499.
Enochs, Claude D., La Crosse, Wis., assignor to The Vote Berger Company. Apparatus for telephone-lines. No. 946,528; Jan. 11; Sp. p. 3425; Gaz. vol. 150; p. 549.
Enochs, Claude D., La Crosse, Wis., assignor to The Vote-Berger Company. Combined jack and drop. No. 949,820; Feb. 22; Sp. p. 4274; Gaz. vol. 151; p. 770.
Enochs, Claude D., La Crosse, Wis., assignor to The Vote-Berger Co. Combined jack and drop for telephone-switchboards. No. 950,168; Feb. 22; Sp. p. 5078; Gaz. vol. 151; p. 891.
Enochs, Claude D., La Crosse, Wis., assignor to The Vote Berger Company. Apparatus for telephone-lines. No. 952,104; Mar. 15; Sp. p. 3324; Gaz. vol. 152; p. 598.
Enos Company. (See Hopton, Lemuel R., assignor.)
Enos, Frank, Jr., Norwich, Conn. Drinking-fountain for poultry. No. 969,852; Sept. 13; Sp. p. 1540; Gaz. vol. 158; p. 264.
Enos, Frank, Jr., assignor to Norwich Automatic Feeder Co., Norwich, Conn. Poultry-feeder. No. 952,793; Mar. 22; Sp. p. 4782; Gaz. vol. 152; p. 861.
Enrico, Giovanni, Turin, Italy, assignor, by mesne assignments, to F. I. A. T., Poughkeepsie, N. Y. Radiator for automobiles. No. 979,137; Dec. 20; Sp. p. 3749; Gaz. vol. 161; p. 649.
Enright, Edward J. (See Enright, John W. and E. J.)
Enright, John W. and E. J., New Orleans, La. Rail-joint. No. 962,824; June 28; Sp. p. 5450; Gaz. vol. 155; p. 953.
Ensign, Alton G. (See Rexicker, Martin J., assignor.)
Ensign, Emory S., Boston, Mass. Automatic driving mechanism. No. 953,991; Apr. 5; Sp. p. 615; Gaz. vol. 153; p. 109.
Ensminger, Arthur A., Cleveland, Ohio. Blade holder and sharpener. No. 945,771; Jan. 11; Sp. p. 1701; Gaz. vol. 150; p. 285.
Ensminger, Meredith B., and J. W. Shaffer, Fostoria, Ohio. Wall. No. 949,527; Feb. 15; Sp. p. 3659; Gaz. vol. 151; p. 637.
Enszlin, Rudolf. (See Gustafson, Enszlin, and Reynolds.)
Enterline, Samuel, Ridgway, Pa. Making cant-hook ferrules. No. 949,319; Feb. 15; Sp. p. 3220; Gaz. vol. 151; p. 568.
Enterline, William, Big Run, Pa. Thermostat. No. 960,860; June 7; Sp. p. 1250; Gaz. vol. 155; p. 209.
Enterprise Bed Company. (See Lehmann, Emil, assignor.)
Enterprise Machine Manufacturing Company. (See Overly, Charles F., assignor.)
Enterprise Manufacturing Company, The. (See Pflueger, Joseph E., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Entrekin, Raymond W., Craig, Nebr. Saw-setting machine. No. 959,326; May 24; Sp. p. 6289; Gaz. vol. 154; p. 1052.
Entrikin, Willibe F. J., Parkesburg, Pa. Electric switch-alarm. No. 954,176; Apr. 5; Sp. p. 1018; Gaz. vol. 153; p. 173.
Entwistle, James R., Framingham, Mass. Radiator attachment. No. 953,461; Mar. 29; Sp. p. 6204; Gaz. vol. 152; p. 1112.
Entz, Justus B., assignor to The Electric Storage Battery Company, Philadelphia, Pa. System of electrical distribution. No. 972,782; Oct. 11; Sp. p. 2740; Gaz. vol. 159; p. 468.
Enyart, Ralph C. (See Hicks and Enyart.)
Enzesfelder Munitions- und Metallwerke Anton Keller Akt. Ges. (See Swoboda, Adolf, assignor.)
Ephraim, Ferdinand, Santa Barbara, Cal., assignor of one-half to L. Oettinger, Mexico, Mexico. Varnish. No. 966,814; Aug. 9; Sp. p. 2140; Gaz. vol. 157; p. 353.
Epler, Samuel B. (See Barry and Epler.)
Eppelein, Paul, Ratisbon, Germany. Collar-stud. No. 954,505; Apr. 12; Sp. p. 1729; Gaz. vol. 153; p. 311.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 950,616; Mar. 1; Sp. p. 320; Gaz. vol. 152; p. 53.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Insole-machine. No. 952,701; Mar. 22; Sp. p. 4572; Gaz vol. 152; p. 830.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 960,294; June 7; Sp. p. 106; Gaz. vol. 155; p. 21.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 968,755; Aug. 30; Sp. p. 6240; Gaz. vol. 157; p. 1091.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Form for shoe-turning machines. No. 973,182; Oct. 18; Sp. p. 3720; Gaz. vol. 159; p. 635.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for reinforcing insoles. No. 979,836; Dec. 27; Sp. p. 5251; Gaz. vol. 161; p. 909.
Eppley, Francis C., assignor to Albaugh-Dover Co., Chicago, Ill. Liquid-separator. No. 951,806; Mar. 15; Sp. p. 2737; Gaz. vol. 152; p. 500.
Epright, Alonzo W., Altoona, Pa. Weighing-scale. No. 956,322; Apr. 26; Sp. p. 5724; Gaz. vol. 153; p. 996.
Epright, Alonzo W., Altoona, assignor of one-half to himself, and one-half to A. S. Vogt, Philadelphia, Pa. Car-weighing apparatus. No. 956,323; Apr. 26; Sp. p. 5726; Gaz. vol. 153; p. 996.
Epright, Alonzo W., assignor of one-third to himself, one-third to A. S. Vogt, and one-third to J. Bousfield, Altoona, Pa. Scale-relieving gear. No. 964,854; July 19; Sp. p. 4053; Gaz. vol. 156; p. 675.
Epstein, Barnett, New York, N. Y. Match-case. No. 949,528; Feb. 15; Sp. p. 3660; Gaz. vol. 151; p. 638.
Epstein, Barnett, New York, N. Y. Elevator. No. 959,327; May 24; Sp. p. 6292; Gaz. vol. 154; p. 1052.
Epstein, Harris, assignor of one-half to D. Lubinsky, Brooklyn, N. Y. Extension-ladder. No. 949,529; Feb. 15; Sp. p. 3661; Gaz. vol. 151; p. 638.
Epstein, Harris, and D. Lubinsky, assignors of one-third to I. J. Kaufman, Brooklyn, N. Y. Gas-controlling device. No. 968,457; Aug. 23; Sp. p. 5564; Gaz. vol. 157; p. 960.
Equilibrator Company. (See Fuerth, William G., assignor.)
Equitable Meter Company. (See Youngs, Fred E., assignor.)
Eras, Vincent J. M., Dordrecht, Netherlands. Lock. No. 977,085; Nov. 29; Sp. p. 6643; Gaz. vol. 160; p. 1132.
Erasmus, Leonhard, Riga-Thorensberg, Russia. Obtaining a solid mass out of cheese-curds. No. 964,504; July 19; Sp. p. 3200; Gaz. vol. 156; p. 554.
Erb, Charles F., Rockaway Point, assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 962,135; June 21; Sp. p. 3979; Gaz. vol. 155; p. 692.
Erb, Daniel. (See Stuart, Josie A. W., assignor.) (Reissue.)
Erdbruegger, Gustav, Anderten, Germany, assignor to Reliefograph Company. Producing sculptures. No. 972,174; Oct. 11; Sp. p. 1443; Gaz. vol. 159; p. 258.
Erdbrügger, Gustav, Anderten, Germany, assignor by mesne assignments, to Reliefograph Company. Apparatus for producing sculptures. No. 972,173; Oct. 11; Sp. p. 1443; Gaz. vol. 159; p. 258.
Erdly, Frank S., Jersey Shore, Pa. Plant-protector. No. 951,807; Mar. 15; Sp. p. 2740; Gaz. vol. 152; p. 500.
Erdmann, Charles J., St. Louis, Mo. Malting apparatus. No. 957,664; May 10; Sp. p. 2475; Gaz. vol. 154; p. 428.
Erekson, William B., Salt Lake City, Utah. Fish-screen. No. 951,635; Mar. 8; Sp. p. 2380; Gaz. vol. 152; p. 412.
Erickson, Anton, Portland, Oreg. Tailor's level. No. 957,150; May 3; Sp. p. 1378; Gaz. vol. 154; p. 221.
Erickson, Arvid W. (See Weeden, Arthur W., assignor.)
Erickson, August, Nevis, Minn. Machine for facing horseshoe-calks. No. 948,693; Feb. 8; Sp. p. 1932; Gaz. vol. 151; p. 332.
Erickson, Carl, San Francisco, Cal. Gold-saving riffle. No. 967,745; Aug. 16; Sp. p. 4062; Gaz. vol. 157; p. 695.
Erickson, Charles, and J. Pearson, Winnipeg, Manitoba, Canada. Gas-engine. No. 975,024; Nov. 8; Sp. p. 2155; Gaz. vol. 160; p. 351.
Erickson, Charles J., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Harmonic party-line telephone-ringer. No. 978,864; Dec. 20; Sp. p. 3101; Gaz. vol. 161; p. 550.
Erickson, Edward, Chaseley, N. D. Bed-spring. No. 947,332; Jan. 25; Sp. p. 5170; Gaz. vol. 150; p. 873.
Erickson, Edward, Beverly, Mass. Fastening device. No. 968,036; Aug. 23; Sp. p. 4669; Gaz. vol. 157; p. 815.
Erickson, Edwin and T., Chancellor, S. D. Rotary engine. No. 951,064; Mar. 1; Sp. p. 1215; Gaz. vol. 152; p. 200.
Erickson, Eric, St. Paul, Minn. Grain, hay, and manure loader. No. 966,433; Aug. 9; Sp. p. 1227; Gaz. vol. 157; p. 222.
Erickson, Ernest A., Wilson, Pa. Ice-cream disher. No. 964,225; July 12; Sp. p. 2607; Gaz. vol. 156; p. 429.
Erickson, Frank E., Marquam, Oreg. Window-sash holder. No. 967,746; Aug. 16; Sp. p. 4063; Gaz. vol. 157; p. 695.

Alphabetical list of patentees—Continued.

Erickson, Fred E., Krem, N. D. Whip-socket lock. No. 970,696; Sept. 20; Sp. p. 3335; Gaz. vol. 158; p. 573.
Erickson, Harry W., Willow Lake, S. D. Grappling device. No. 961,761; June 21; Sp. p. 3142; Gaz. vol. 155; p. 565.
Erickson, Jack, Bingham, Utah. Whip-lock. No. 955,588; Apr. 19; Sp. p. 4082; Gaz. vol. 153; p. 712.
Erickson, John, Cheyenne, Wyo. Sill-protector, bolster-stop, and truss-rod support for cars. No. 970,900; Sept. 20; Sp. p. 3769; Gaz. vol. 158; p. 643.
Erickson, John E., St. Paul, Minn. Metal-bending machine. No. 965,171; July 26; Sp. p. 4685; Gaz. vol. 156; p. 812.
Erickson, Peter E., Port Chester, N. Y. Pipe-wrench. No. 966,182; Aug. 2; Sp. p. 733; Gaz. vol. 157; p. 116.
Erickson, Swan L., Galesburg, Ill. Dripping-valve. No. 946,914; Jan. 18; Sp. p. 4293; Gaz. vol. 150; p. 705.
Erickson, Theodore. (See Erickson, Edwin and T.)
Ericson, Charles J., Salt Lake City, Utah. Transom support and fastener. No. 979,138; Dec. 20; Sp. p. 3750; Gaz. vol. 161; p. 649.
Ericson, John V., Chicago, Ill. Dumping railway-car. No. 955,452; Apr. 19; Sp. p. 3790; Gaz. vol. 153; p. 665.
Ericson, Joseph S., Burbank, Cal. Locking-faucet. No. 958,735; May 24; Sp. p. 5023; Gaz. vol. 154; p. 851.
Ericson, Thoursten E., Cambridge, Mass. Doughnut-dipper. No. 979,388; Dec. 20; Sp. p. 4245; Gaz. vol. 161; p. 732.
Ericsson, Eric, and E. G. Thoreen, Worcester, Mass. Vacuum-cleaner. No. 963,701; July 5; Sp. p. 1482; Gaz. vol. 156; p. 230.
Ericsson, Henry, Chicago, Ill. Filling-block for fireproof constructions. No. 974,868; Nov. 8; Sp. p. 1793; Gaz. vol. 160; p. 297.
Ericsson Manufacturing Company. (See Hemenway, Thomas S., assignor.)
Ericsson Manufacturing Company. (See Weman, Klas, assignor.)
Erie Wheel Company, The. (See Thompson, Alfred, assignor.)
Eriksen, Hermand, Philadelphia, Pa. Compound reversible rotary engine. No. 962,204; June 21; Sp. p. 4123; Gaz. vol. 155; p. 715.
Eriksson, John, and P. M. Arvidsson, Sollefteå, Sweden. Respirator and the like. No. 950,816; Mar. 1; Sp. p. 767; Gaz. vol. 152; p. 122.
Erkens, Charles R., New York, N. Y. Door-lock. No. 963,427; July 5; Sp. p. 932; Gaz. vol. 156; p. 139.
Erlandsen, Julius, New York, N. Y. Rotary cutter. No. 960,526; June 7; Sp. p. 573; Gaz. vol. 155; p. 95.
Erlenbach, Martin, and H. Kohn, assignors of one-half to W. R. Hennies, San Francisco, Cal. Raisin-seeder. No. 963,702; July 5; Sp. p. 1483; Gaz. vol. 156; p. 231.
Erler, Karl, Basel, Switzerland. Self-heating soldering-iron. No. 966,183; Aug. 2; Sp. p. 734; Gaz. vol. 157; p. 116.
Erlwein, Georg, Berlin, and E. Marquardt, Karow, near Berlin, Germany. Apparatus for aerating water. No. 950,999; Mar. 1; Sp. p. 1109; Gaz. vol. 152; p. 179.
Ermentrout, William H., Reading, Pa. Stocking-turning machine. No. 964,959; July 19; Sp. p. 4265; Gaz. vol. 156; p. 712.
Ermentrout, William H., and S. S. Miller, Reading, Pa. Stocking-blank. No. 972,442; Oct. 11; Sp. p. 1997; Gaz. vol. 159; p. 351.
Ermold, Edward, New York, N. Y. Wiper attachment for bottle-labeling machines. No. 946,996; Jan. 18; Sp. p. 4444; Gaz. vol. 150; p. 732.
Ermold, Edward, New York, N. Y. Label-supply mechanism for bottle-labeling machines. No. 950,259; Feb. 22; Sp. p. 5269; Gaz. vol. 151; p. 924.
Ermold, Edward, New York, N. Y. Wiper mechanism for bottle-labeling machines. No. 950,260; Feb. 22; Sp. p. 5271; Gaz. vol. 151; p. 924.
Ermold, Edward, New York, N. Y. Wiper attachment for bottle-labeling machines. No. 950,261; Feb. 22; Sp. p. 5273; Gaz. vol. 151; p. 925.
Ermold, Edward, New York, N. Y. Wiper for bottle-labeling machines. No. 966,536; Aug. 9; Sp. p. 1515; Gaz. vol. 157; p. 259.
Ernsberger, Andrew M., New York, N. Y. Cachou-holder. No. 975,681; Nov. 15; Sp. p. 3577; Gaz. vol. 160; p. 602.
Ernsberger, Vernon, Fremont, Ohio. Gas sterilizer and purifier. No. 949,032; Feb. 15; Sp. p. 2650; Gaz. vol. 151; p. 472.
Ernsberger, Vernon, Fremont, Ohio. Mausoleum. No. 952,985; Mar. 22; Sp. p. 5152; Gaz. vol. 152; p. 925.
Ernst, Charles K., *et al.* (See Davis, Homer L., assignor.)
Ernst, Emil R., New York, N. Y. Game apparatus. No. 970,901; Sept. 20; Sp. p. 3770; Gaz. vol. 158; p. 643.
Ernst, Otto, and H. Eichwede, assignors to Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the-Main, Germany. Monoazo dye and making. No. 978,865; Dec. 20; Sp. p. 3103; Gaz. vol. 161; p. 550.
Erskine, James L., assignor to The James Lowe Erskine Co., New York, N. Y. Brush. No. 955,061; Apr. 12; Sp. p. 2962; Gaz. vol. 153; p. 502.
Erskine, Ralph W., Pittsburg, Kans. Blow-off cock. No. 968,037; Aug. 23; Sp. p. 4672; Gaz. vol. 157; p. 816.
Erskine, William B. (See Strauss and Erskine.)
Erskine, William R., Lindale, Ga. Spindle and bearing for slubbing, spinning, twisting, or like machines. No. 966,184; Aug. 2; Sp. p. 736; Gaz. vol. 157; p. 116.
Erste Triester Reisschäl-Fabriks-Aktien-Gesellschaft. (See Donauer, Georg, assignor.)
Erstling, Julius, assignor to Henry Likly & Company, Rochester, N. Y. Hand-bag. No. 948,165; Feb. 1; Sp. p. 787; Gaz. vol. 151; p. 130.
Ertel, John P., Rushville, Ind. Fender for plows. No. 961,591; June 14; Sp. p. 2801; Gaz. vol. 155; p. 484.
Erti, Joseph, Chicago, Ill. Exercising apparatus. No. 954,790; Apr. 12; Sp. p. 2374; Gaz. vol. 153; p. 410.
Ervin, Jerry, and W. Keeton, Nelsonville, Ohio. Powder-magazine. No. 948,923; Feb. 8; Sp. p. 2401; Gaz. vol. 151; p. 409.
Erwin, Florus O., *et al.* (See Prilliman, Daniel, assignor.)
Erwin, Thomas B., and H. C. Meyer, Britt, Iowa. Fire-escape. No. 952,315; Mar. 15; Sp. p. 3739; Gaz. vol. 152; p. 669.
Eschert, Carl W., Milwaukee, Wis. Plow attachment. No. 948,478; Feb. 8; Sp. p. 1468; Gaz. vol. 151; p. 260.
Esders, John H., St. Joseph, Mo. Feed-bag. No. 958,611; May 17; Sp. p. 4779; Gaz. vol. 154; p. 784.
Esders, John H., St. Joseph, Mo. Vehicle-wheel. No. 971,434; Sept. 27; Sp. p. 4832; Gaz. vol. 158; p. 846.
Eskew, Daniel, Boonville, Ind. Concrete post. No. 965,700; July 26; Sp. p. 5851; Gaz. vol. 156; p. 994.
Eskildsen, Nels P. B., Hampton, Nebr. Wagon-box protector. No. 971,028; Sept. 27; Sp. p. 4017; Gaz. vol. 158; p. 713.
Eskildson, Joseph F., Malden, Mass. Folding oven-rack. No. 953,128; Mar. 29; Sp. p. 5490; Gaz. vol. 152; p. 1002.
Eskridge, Ammaroy, Chicago, Ill. Chiropodist's knife. No. 951,309; Mar. 8; Sp. p. 1722; Gaz. vol. 152; p. 303.
Eskridge, Poe W., Rutherfordton, N. C. Fire-alarm switch. No. 972,353; Oct. 11; Sp. p. 1819; Gaz. vol. 159; p. 319.
Esler, James, Bronx, N. Y. Sash-lock. No. 955,778; Apr. 19; Sp. p. 4500; Gaz. vol. 153; p. 777.
Esnault-Pelterie, Robert, Boulogne-sur-Seine, France. Motorist's goggles. No. 968,401; Aug. 23; Sp. p. 5460; Gaz. vol. 157; p. 941.
Essen, Harald von, Hamburg, Germany. Fly-catcher. No. 960,527; June 7; Sp. p. 576; Gaz. vol. 155; p. 95.
Esser & Co., Ferd. (See Glauser, Gustave, assignor.)
Essig, Andrew, Cleveland, Ohio. Incubator. No. 964,467; July 12; Sp. p. 3092; Gaz. vol. 156; p. 508.
Estell, Samuel F., Florence, Cal. Car-seal. No. 955,638; Apr. 19; Sp. p. 4200; Gaz. vol. 153; p. 730.
Estelle, Axel T. K., assignor to Nya Ackumulator Aktiebolaget Jungner, Fliseryd, Sweden. Electrical element. No. 977,086; Nov. 29; Sp. p. 6644; Gaz. vol. 160; p. 1133.
Estelle, Axel T. K., and K. W. H. Evers, assignors to Nya Ackumulator Aktiebolaget Jungner, Fliseryd, Sweden. Electrical element. No. 979,064; Dec. 20; Sp. p. 3550; Gaz. vol. 161; p. 621.
Estes, Allen L., Harris, assignor of one-fourth to C. N. Hutto, Tahoka, Tex. Revolving water-heater and clothes-boiler. No. 953,324; Mar. 29; Sp. p. 5897; Gaz. vol. 152; p. 1065.
Estes, Clifford S. (See Le Baron, John F., assignor.)
Estes, Henry E. (See Estes, John D. and H. E.)
Estes, James W., Syracuse, N. Y. Locomotive-cab window. No. 960,861; June 7; Sp. p. 1252; Gaz. vol. 155; p. 209.
Estes, Job, Alger, Mich. Harvester. No. 963,128; July 5; Sp. p. 263; Gaz. vol. 156; p. 35.
Estes, John D. and H. E., Phillipsburg, Mo. Attachment for beds. No. 969,531; Sept. 6; Sp. p. 813; Gaz. vol. 158; p. 128.
Estes, Loring V., and W. Forward, assignors to Cluett, Peabody & Company, Troy, N. Y. Apparatus for reshaping collars and analogous articles. No. 966,434; Aug. 9; Sp. p. 1229; Gaz. vol. 157; p. 223.
Estes, Loring V., and W. Forward, assignors to Cluett, Peabody & Company, Troy, N. Y. Reshaping collars and analogous articles. No. 966,435; Aug. 9; Sp. p. 1232; Gaz. vol. 157; p. 223.
Estes, Robert E., and J. P. Inman, Midland, Tex. Spark-plug. No. 965,380; July 26; Sp. p. 5138; Gaz. vol. 156; p. 881.
Estey, Edmund J., Apponaug, R. I. Vehicle-wheel. No. 974,250; Nov. 1; Sp. p. 376; Gaz. vol. 160; p. 55.
Estey, Edmund J., Apponaug, R. I. Demountable rim. No. 974,251; Nov. 1; Sp. p. 378; Gaz. vol. 160; p. 55.
Estey Organ Company. (See Haskell, William E., assignor.)
Estrem, John C., Decorah, Iowa. Traction device. No. 950,442; Feb. 22; Sp. p. 5609; Gaz. vol. 151; p. 983.
Estwick, Charles F. (See Cozzens, Estwick, and Tiffany.)
Esty Watch Tool Company. (See Esty, William, assignor.)
Esty, William, assignor to Esty Watch Tool Company, Laconia, N. H. Carriage-curtain fastener. No. 976,057; Nov. 15; Sp. p. 4304; Gaz. vol. 160; p. 730.
Etcheverry, Justo D., and P. P. Figueroa, New York, N. Y. Cigarette and cigar holder. No. 971,497; Sept. 27; Sp. p. 4947; Gaz. vol. 158; p. 866.

Ethridge, Martin V. B., New York, N. Y. Automobile wagon. No. 956,060; Apr. 26; Sp. p. 5137; Gaz. vol. 153; p. 906.
Ethridge, Martin V. B., New York, N. Y. Automobile wagon. No. 956,061; Apr. 26; Sp. p. 5138; Gaz. vol. 153; p. 906.
Etly, David J., Ross township, Allegheny county, Pa. Fan attachment for chairs. No. 973,267; Oct. 18; Sp. p. 3878; Gaz. vol. 159; p. 663.
Etrich, Igo, and F. Wels, Oberaltstadt, near Trautenau, Austria-Hungary. Flying-machine. No. 952,316; Mar. 15; Sp. p. 3741; Gaz. vol. 152; p. 670.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Cast-metal pole. No. 946,665; Jan. 18; Sp. p. 3699; Gaz. vol. 150; p. 619.
Ette Investment Company. (See Ette, Charles G., assignor.)
Etter, Samuel P., Cisne, Ill. Spring-mattress. No. 951,682; Mar. 8; Sp. p. 2471; Gaz. vol. 152; p. 428.
Etter, Samuel P., Cisne, Ill. Paper-holder attachment. No. 951,943; Mar. 15; Sp. p. 3020; Gaz. vol. 152; p. 547.
Etter, Samuel P., Cisne, Ill. Tool-coupling. No. 952,892; Mar. 22; Sp. p. 4971; Gaz. vol. 152; p. 894.
Etter, Samuel P., Cisne, Ill. Smoking-pipe. No. 963,038; July 5; Sp. p. 20; Gaz. vol. 156; p. 6.
Ettler, John A., San Francisco, Cal. Reinforcing element for concrete structures. No. 967,505; Aug. 16; Sp. p. 3580; Gaz. vol. 157; p. 614.
Etzold, John A. (See Pugh and Etzold.)
Eubank, Judson C. (See Eubank, Reuben B., Jr., and J. C.)
Eubank, Mary E. (See Eubank, Reuben B., Jr., and J. C., assignors.)
Eubank, Reuben B., Jr., and J. C.; said Reuben B. Eubank, Jr., assignor to M. E. Eubank, Kansas City, Mo. Flying-machine. No. 977,517; Dec. 6; Sp. p. 224; Gaz. vol. 161; p. 33.
Eubanks, Sayers D., Durham, N. C. Picker-stick check for looms. No. 957,047; May 3; Sp. p. 1179; Gaz. vol. 154; p. 187.
Eubanks, Sayers D., West Durham, N. C., assignor to Draper Company, Hopedale, Mass. Thin-place-detecting mechanism for looms. No. 956,574; May 3; Sp. p. 149; Gaz. vol. 154; p. 25.
Eubanks, Thomas J. (See Camp and Eubanks.)
Euchenhofer, Alexander, Dayton, Ohio. Grass-cutter. No. 977,288; Nov. 29; Sp. p. 7074; Gaz. vol. 160; p. 1203.
Eugene Dietzgen Company Factory. (See Heer, Peter R., assignor.)
Eugene Munsell & Co. (See Warren, John D., assignor.)
Eul, Peter J., Milwaukee, Wis., assignor to S. M. Bixby & Company, New York, N. Y. Display-holder for cartons, boxes, and other receptacles. No. 952,612; Mar. 22; Sp. p. 4379; Gaz. vol. 152; p. 799.
Eureka Novelty Company. (See Keefe, William J., assignor.)
Eureka Vibrator Co. (See Stecker, Alfred J., assignor.)
Eustis, John P., Newton, Mass. Candle-light. No. 966,185; Aug. 2; Sp. p. 739; Gaz. vol. 157; p. 117.
Eustis, John P., Newton, Mass. Means for mounting mirrors, pictures, &c., in metallic frames. (Reissue.) No. 13,140; Aug. 2; Sp. p. 1177; Gaz. vol. 157; p. 191.
Evans, Alfred B., F. Marcaurele, New Bedford, Mass., and F. R. Langlois, Woonsocket, R. I. Combing-machine. No. 979,389; Dec. 20; Sp. p. 4247; Gaz. vol. 161; p. 732.
Evans, Almirall & Co. (See Almirall, Juan A., assignor.)
Evans, Arthur B., and G. C. H. Wichmann, Leeds, England. Rotary printing-machine. No. 958,484; May 17; Sp. p. 4534; Gaz. vol. 154; p. 742.
Evans, Charles H. (See Evans, Ole and C. H.)
Evans, Charles S., Dayton, Ohio. Compasses and divider. No. 953,026; Mar. 29; Sp. p. 5248; Gaz. vol. 152; p. 968.
Evans, Clarence A., Chester, Pa. Toy circus. No. 968,756; Aug. 30; Sp. p. 6244; Gaz. vol. 157; p. 1092.
Evans, Clarence A., Chester, Pa. Combined button-hook hanger and toy. No. 978,720; Dec. 13; Sp. p. 2827; Gaz. vol. 161; p. 480.
Evans, Edward W. and P. J., Waltham, Mass. Vehicle-tire. No. 967,506; Aug. 16; Sp. p. 3581; Gaz. vol. 157; p. 614.
Evans, Ernest, Liscard, England. Machinery for the manufacture of feeding-cake. No. 969,049; Aug. 30; Sp. p. 6825; Gaz. vol. 157; p. 1189.
Evans, Evan T., Westerville, Ohio. Telephone-transmitter. No. 947,966; Feb. 1; Sp. p. 398; Gaz. vol. 151; p. 63.
Evans, Francis M., Ivy, Ky. Trip device for operating railway-switches, trap-doors, &c. No. 947,896; Feb. 1; Sp. p. 255; Gaz. vol. 151; p. 41.
Evans, George E., Moline, Ill. Work-support or mandrel. No. 966,673; Aug. 9; Sp. p. 1783; Gaz. vol. 157; p. 305.
Evans, George R., Berkeley, Cal. Fresh-air-inlet trap. No. 961,343; June 14; Sp. p. 2279; Gaz. vol. 155; p. 402.
Evans, George R., Berkeley, Cal. Rotary engine. No. 969,353; Sept. 6; Sp. p. 428; Gaz. vol. 158; p. 69.
Evans, Harley B. (See Goddin and Evans.)
Evans, Henry O., Detroit, Mich. Feed mechanism for spindles for machine-tools. No. 960,295; June 7; Sp. p. 108; Gaz. vol. 155; p. 22.
Evans, Henry O., Detroit, Mich. Chuck for machine-work. No. 971,979; Oct. 4; Sp. p. 1043; Gaz. vol. 159; p. 174.
Evans, Hymen A., *et al.* (See Hammond, Robert O., assignor.)
Evans, Isaac T. (See Geiger, Calvin C., assignor.)
Evans, James A., Philadelphia, Pa. Coin-controlled mechanism. No. 961,219; June 14; Sp. p. 1987; Gaz. vol. 155; p. 359.
Evans, James A., assignor, by mesne assignments, of one-half to E. W. O'Connor, Philadelphia, Pa. Automatic vending-machine. No. 965,574; July 26; Sp. p. 5587; Gaz. vol. 156; p. 950.
Evans, Jesse C., and P. G. Hill, Lumberton, N. C. Rail chair and coupling. No. 958,241; May 17; Sp. p. 3886; Gaz. vol. 154; p. 656.
Evans, Jesse P., and J. B. West, Barton, Ark.; said Evans assignor to said West. Road-grader and ditcher. No. 960,296; June 7; Sp. p. 111; Gaz. vol. 155; p. 22.
Evans, John, assignor of one-half to C. Fitch, Utica, N. Y. Antirattling device for brake-bands. No. 947,628; Jan. 25; Sp. p. 5854; Gaz. vol. 150; p. 972.
Evans, John D., Chesterfield, S. C. Fly-net. No. 959,925; May 31; Sp. p. 7568; Gaz. vol. 154; p. 1279.
Evans, John E., Lima, Ohio. Artificial tooth. No. 969,050; Aug. 30; Sp. p. 6827; Gaz. vol. 157; p. 1189.
Evans, John W., Belleville, Ontario, Canada. Steel. No. 948,166; Feb. 1; Sp. p. 788; Gaz. vol. 151; p. 130.
Evans, John W., Belleville, Ontario, Canada. Reducing furnace. No. 960,862; June 7; Sp. p. 1255; Gaz. vol. 155; p. 210.
Evans, John W., Belleville, Ontario, Canada. Reducing refractory material. No. 960,863; June 7; Sp. p. 1257; Gaz. vol. 155; p. 210.
Evans, Lewis J. (See Jones and Evans.)
Evans, Louis H., Chicago, Ill. Railway-track construction. No. 963,364; July 5; Sp. p. 801; Gaz. vol. 156; p. 118.
Evans, Major A., Ewell, Md. Crab-float. No. 972,175; Oct. 11; Sp. p. 1444; Gaz. vol. 159; p. 258.
Evans, Mary A., Poplar Plains, Ky. Safety-envelop. No. 949,651; Feb. 15; Sp. p. 3896; Gaz. vol. 151; p. 679.
Evans, Mary A., Poplar Plains, Ky. Blacking-box. No. 963,703; July 5; Sp. p. 1485; Gaz. vol. 156; p. 231.
Evans, Morgan J. (See Davis and Evans.)
Evans, Ole and C. H., Steamboat Springs, Colo. Bolting-machine. No. 960,864; June 7; Sp. p. 1260; Gaz. vol. 155; p. 211.
Evans, Percy J. (See Evans, Edward W. and P. J.)
Evans, Powell, Philadelphia, Pa. Tire-case. No. 947,527; Jan. 25; Sp. p. 5640; Gaz. vol. 150; p. 937.
Evans, Powell, Philadelphia, Pa. Baggage-carrier for automobiles. No. 976,561; Nov. 22; Sp. p. 5488; Gaz. vol. 160; p. 928.
Evans, Ray V. (See Parker, Charles A., assignor.)
Evans, Richard J., Franklin, Pa. Rubber tire for vehicles. No. 949,888; Feb. 22; Sp. p. 4447; Gaz. vol. 151; p. 794.
Evans, Robert N., assignor to Atlas Chain Company, New York, N. Y. Antiskid device or chain. No. 979,139; Dec. 20; Sp. p. 3752; Gaz. vol. 161; p. 650.
Evans, Robert N., New York, assignor to Atlas Chain Company, Brooklyn, N. Y. Antiskid-chain. No. 979,141; Dec. 20; Sp. p. 3756; Gaz. vol. 161; p. 650.
Evans, Robert N., and P. T. Hamm, New York, assignors to Atlas Chain Company, Brooklyn, N. Y. Antiskid device for tires. No. 979,140; Dec. 20; Sp. p. 3754; Gaz. vol. 161; p. 650.
Evans, Samuel B., Kinards, S. C. Plow attachment. No. 948,210; Feb. 1; Sp. p. 880; Gaz. vol. 151; p. 144.
Evans, Taylor, Centralia, Wash. Hose-coupling. No. 965,998; Aug. 2; Sp. p. 334; Gaz. vol. 157; p. 54.
Evans, Taylor, assignor of one-half to E. Hoard, Centralia, Wash. Mop. No. 945,772; Jan. 11; Sp. p. 1702; Gaz. vol. 150; p. 285.
Evans, Thomas R. (See Johness, Frank P., assignor.)
Evans, Thomas R., and L. W. Young, assignors to Macbeth-Evans Glass Company, Pittsburg, Pa. Packing device. No. 959,489; May 31; Sp. p. 6640; Gaz. vol. 154; p. 1132.
Evans, Thomas W., Jersey City, N. J. Nozzle-stopper for bottles and other receptacles. No. 972,522; Oct. 11; Sp. p. 2198; Gaz. vol. 159; p. 380.
Evans, William, executor. (See Whittles, Jeremiah C.)
Evans, William, Philadelphia, Pa. Machine for treating hides or skins. No. 962,205; June 21; Sp. p. 4125; Gaz. vol. 155; p. 716.
Evans, William D., and J. T. Marshall, Eupora, Miss. Cigar-vending machine. No. 962,825; June 28; Sp. p. 5452; Gaz. vol. 155; p. 953.
Evans, William P., assignor to D. L. Schultz, Manchester, England. Loom connecting-rod and lubricating device. No. 945,841; Jan. 11; Sp. p. 1875; Gaz. vol. 150; p. 311.
Evans, William V., and H. C. Gordon, San Diego, Cal. Oil-can. No. 960,008; May 31; Sp. p. 7779; Gaz. vol. 154; p. 1309.
Evdokimoff, Feodor A. (See Kovalsky, Wladimir I., assignor.)
Eve, Richard E., London, England. Box. No. 945,155; Jan. 4; Sp. p. 301; Gaz. vol. 150; p. 51.

Alphabetical list of patentees—Continued.

Eveleth, Charles E., Schenectady, N. Y., assignor to General Electric Company. Circuit-breaker-retarding device. No. 957,319; May 10; Sp. p. 1782; Gaz. vol. 154; p. 311.
Evensen, Olaf, Montreal, Quebec, Canada. Hydrographic apparatus. No. 967,623; Aug. 16; Sp. p. 3805; Gaz. vol. 157; p. 654.
Evensen, William, assignor to The Goss Printing Press Company, Chicago, Ill. Printing-press. No. 960,865; June 7; Sp. p. 1261; Gaz. vol. 155; p. 211.
Evenson, Even S., Underwood, Minn. Pencil-holder. No. 946,026; Jan. 11; Sp. p. 2255; Gaz. vol. 150; p. 375.
Evenson, Syver, Pelican Rapids, Minn. Washing-machine. No. 960,866; June 7; Sp. p. 1262; Gaz. vol. 155; p. 211.
Evenson, Thomas. (See Smith, Edward H., assignor.)
Ever Ready Fire Extinguisher Co. (See Brent, Charles, assignor.)
Everall, Ernest E., Toronto, Ontario, Canada. Carbon-holder for manifolding devices. No. 948,211; Feb. 1; Sp. p. 881; Gaz. vol. 151; p. 145.
Everest, Homer A. (See Thibeault, Dello, assignor.)
Everest, Laban J., assignor to Hynes Shade Guide Company, Los Angeles, Cal. Shade attachment. No. 966,436; Aug. 9; Sp. p. 1234; Gaz. vol. 157; p. 223.
Everest, Laban J., assignor to C. L. Lancaster, Los Angeles, Cal. Clamp. No. 968,038; Aug. 23; Sp. p. 4673; Gaz. vol. 157; p. 816.
Everett, Azariah R., Brookfield township, Trumbull county, assignor of one-half to W. F. Everett, Vienna township, Ohio. Attachment for anvils. No. 950,903; Mar. 1; Sp. p. 928; Gaz. vol. 152; p. 148.
Everett, Charles J., New York, N. Y. Electric battery. No. 977,721; Dec. 6; Sp. p. 672; Gaz. vol. 161; p. 103.
Everett, Ernest C., assignor to R. E. Dietz Company, New York, N. Y. Lantern. No. 951,420; Mar. 8; Sp. p. 1955; Gaz. vol. 152; p. 339.
Everett, Ernest P., and G. W. Norton, New York, N. Y. Barrel-forming machine. No. 947,629; Jan. 25; Sp. p. 5855; Gaz. vol. 150; p. 972.
Everett, Thomas L., Fairfield, Iowa. Railway-tie. No. 959,490; May 31; Sp. p. 6641; Gaz. vol. 154; p. 1132.
Everett, William F. (See Everett, Azariah R., assignor.)
Everitt, William R., Muscatine, Iowa. Coupling for hay rakes and loaders. No. 973,417; Oct. 18; Sp. p. 4202; Gaz. vol. 159; p. 715.
Everitt, William R., Muscatine, Iowa. Conveyer device for hay rakes and loaders. No. 973,418; Oct. 18; Sp. p. 4203; Gaz. vol. 159; p. 716.
Evers, Ferdinand, Dusseldorf, Germany. Making paper and similar material pliable. No. 957,196; May 10; Sp. p. 1490; Gaz. vol. 154; p. 266.
Evers, Ferdinand, Dusseldorf, Germany. Making tobacco supple. No. 973,768; Oct. 25; Sp. p. 4942; Gaz. vol. 159; p. 860.
Evers, Fred B. (See Stitzer, George K., assignor.)
Evers, Heinz, Zurich, assignor to Gerster & Cie., Clarens-Montreux, Switzerland. Eliminating the active toxic agent from coffee. No. 978,866; Dec. 20; Sp. p. 3104; Gaz. vol. 161; p. 551.
Evers, Karl W. H. (See Estelle and Evers.)
Everson, Charles W., Brooklyn, N. Y., and G. F. D. Trask, Orange, N. J., assignors to said Trask. Valve mechanism. No. 961,220; June 14; Sp. p. 1990; Gaz. vol. 155; p. 359.
Everson, George, New York, N. Y. Liquid-gage. No. 964,960; July 19; Sp. p. 4266; Gaz. vol. 156; p. 712.
Everson, George H., Pittsburg, Pa. Manufacture of deep-flange sections. No. 950,280; Feb. 22; Sp. p. 5311; Gaz. vol. 151; p. 931.
Eves, Frank, Stillwater, Minn. Beater for threshing-machines. No. 951,270; Mar. 8; Sp. p. 1627; Gaz. vol. 152; p. 290.
Eviston, Rosa, Indianapolis, Ind. Combination sewing-machine attachment. No. 959,126; May 24; Sp. p. 5883; Gaz. vol. 154; p. 985.
Evon, Henry J., Chicago, Ill. Envelop-opener. No. 973,347; Oct. 18; Sp. p. 4042; Gaz. vol. 159; p. 692.
Evrett, Arch L. (See McQuerry and Evrett.)
Ewart, John, Arlington, assignor of one-fourth to J. A. Ewart, Salem, and one-half to Sherburne & Company, Boston, Mass. Door-check. No. 950,566; Mar. 1; Sp. p. 222; Gaz. vol. 152; p. 37.
Ewart, Joseph A., *et al.* (See Ewart, John, assignor.)
Ewart, Samuel, London, England. Cowl for ventilating and other purposes. No. 979,390; Dec. 20; Sp. p. 4249; Gaz. vol. 161; p. 732.
Ewell, Herbert P., Detroit, Mich. Making liquid sodium amalgam. No. 969,853; Sept. 13; Sp. p. 1541; Gaz. vol. 158; p. 265.
Ewen, Edward C. (See Kramer, Philip R., assignor.)
Ewen, William E., Newlin, Tex. Joint-chair. No. 978,721; Dec. 13; Sp. p. 2827; Gaz. vol. 161; p. 480.
Ewer, Malcolm G., Detroit, Mich. Wrench. No. 967,355; Aug. 16; Sp. p. 3248; Gaz. vol. 157; p. 563.
Ewer, Thomas E., Fort Des Moines, Iowa. Whiffletree-hook. No. 956,630; May 3; Sp. p. 262; Gaz. vol. 154; p. 44.
Ewer, Thomas E., Fort Des Moines, Iowa. Snap-hook for neck-yokes. No. 961,221; June 14; Sp. p. 1992; Gaz. vol. 155; p. 360.
Ewer, Thomas E., Fort Des Moines, Iowa. Trace-fastener. No. 962,422; June 28; Sp. p. 4606; Gaz. vol. 155; p. 813.
Ewert, A. W., *et al.* (See Miller, Calvin P., assignor.)
Ewing, Charles, Tarrytown, N. Y. Nut-lock. No. 965,885; Aug. 2; Sp. p. 72; Gaz. vol. 157; p. 14.
Ewing, Clifford, assignor of one-half to A. F. Gaupel, Covington, Ky. Post-card holder. No. 950,690; Mar. 1; Sp. p. 484; Gaz. vol. 152; p. 78.
Ewing, Herbert O., Middleport, Ohio. Gas-supply-controlling device. No. 948,724; Feb. 8; Sp. p. 2004; Gaz. vol. 151; p. 343.
Ewing, Hugh, Columbus, Ohio. Spring-controlled vehicle-wheel link. No. 951,000; Mar. 1; Sp. p. 1111; Gaz. vol. 152; p. 179.
Ewing, Hugh, Columbus, Ohio. Spring-controlled vehicle-wheel link. No. 951,096; Mar. 1; Sp. p. 1282; Gaz. vol. 152; p. 210.
Ewing, Peter C., Little Rock, Ark. Switch-plug. No. 950,281; Feb. 22; Sp. p. 5314; Gaz. vol. 151; p. 931.
Ewing, Robert, London, Ontario, Canada. Disk harrow. No. 961,113; June 14; Sp. p. 1764; Gaz. vol. 155; p. 320.
Ewing, Samuel S., *et al.* (See Vaughn, Robert, assignor.)
Ewoldt, Henry, Grand Island, Nebr. Threshing-machine. No. 978,570; Dec. 13; Sp. p. 2509; Gaz. vol. 161; p. 428.
Excel Manufacturing Company. (See Wallin, Joseph, assignor.)
Excelsior Needle Company. (See Dayton, James M., assignor.)
Excelsior Stove & Manufacturing Company. (See Sanner, Henry H., assignor.)
Excelsior Supply Company. (See Meiser, George H., assignor.)
Express Separator Emil G. Lind & Co. (See Sundberg, Per T., assignor.)
Eyden, Edward J. (See Eyden, Ferdinand and H. P., assignors.)
Eyden, Ferdinand and H. P., Wood River, assignors of one-fourth to E. J. Eyden, Lincoln, Nebr. Cigar-cutter. No. 949,822; Feb. 22; Sp. p. 4278; Gaz. vol. 151; p. 771.
Eyden, Henry P. (See Eyden, Ferdinand and H. P.)
Eyermann, Wilhelm H., Deutsch Wilmersdorf, near Berlin, Germany. Means for securing turbine-blades. No. 952,317; Mar. 15; Sp. p. 3747; Gaz. vol. 152; p. 670.
Eyermann, Wilhelm H., Deutsch Wilmersdorf, near Berlin, Germany. Radial-flow steam-turbine. No. 952,318; Mar. 15; Sp. p. 3745; Gaz. vol. 152; p. 671.
Eyermann, Wilhelm H., Deutsch-Wilmersdorf, near Berlin, Germany. Means for balancing turbines and pumps. No. 958,612; May 17; Sp. p. 4781; Gaz. vol. 154; p. 785.
Eyles, Anton G., Cedar Rapids, Iowa. Table attachment for chairs. No. 975,755; Nov. 15; Sp. p. 3717; Gaz. vol. 160; p. 627.
Eymon, James H., Marion, Ohio. Railway-crossing. No. 967,179; Aug. 16; Sp. p. 2903; Gaz. vol. 157; p. 503.
Eynon, David L., *et al.* (See Eynon, William D., assignor.)
Eynon, Harold G., Lancaster, assignor of one-third to T. M. Eynon, Philadelphia, and one-third to E. L. Powl, Lancaster, Pa. Mail delivering and receiving device. No. 975,025; Nov. 8; Sp. p. 2158; Gaz. vol. 160; p. 352.
Eynon, Thomas, Chicago, Ill. Milling-tooth. No. 959,328; May 24; Sp. p. 6294; Gaz. vol. 154; p. 1053.
Eynon, Thomas M., *et al.* (See Eynon, Harold G., assignor.)
Eynon, William D., assignor of one-fourth to J. J. Fisher, Philadelphia, one-fourth to P. Harding, Narberth, Pa., and one-fourth to D. L. Eynon, Paterson, N. J. Rolling metal. No. 960,297; June 7; Sp. p. 112; Gaz. vol. 155; p. 22.
Eynon, William H., Cleveland, Ohio. Armored tire. No. 963,882; July 12; Sp. p. 1917; Gaz. vol. 156; p. 315.
Eynon, William H., Cleveland, Ohio. Elastic vehicle-tire. No. 966,674; Aug. 9; Sp. p. 1784; Gaz. vol. 157; p. 305.
Eytalis, Charles, Chicago, Ill. Sliding-door fastener. No. 979,454; Dec. 27; Sp. p. 4393; Gaz. vol. 161; p. 778.
Eytalis, Charles, assignor of one-sixth to E. Baren, one-sixth to R. Weinberg, and one-sixth to J. Butkus, Chicago, Ill. Door-fastener. No. 971,498; Sept. 27; Sp. p. 4949; Gaz. vol. 158; p. 867.
Eyton, Charles, Los Angeles, Cal. Keyhole-illuminating device. No. 970,698; Sept. 20; Sp. p. 3338; Gaz. vol. 158; p. 573.
Ezzell, John C. (See Hiett, William S., assignor.)
Ezzell, John T., Piedmont, Ala. Plow attachment. No. 964,411; July 12; Sp. p. 2976; Gaz. vol. 156; p. 491.
F. Wesel Manufacturing Company. (See Williamson, Glenn S., assignor.)
F. Wesel Manufacturing Company. (See Winter, Herman, assignor.)
F. Wyatt Manufacturing Company, The. (See Wyatt, Frank, assignor.)
F. B. Zieg Manufacturing Company. (See Hanna, Samuel C., assignor.)
F. C. Newell Mutograph Corporation, The. (See Newell, Frank C., assignor.)
F. D. Kees Mfg. Company. (See Dresp, John P., assignor.)
F. E. Myers and Brother. (See Myers, Philip, assignor.)
F. H. Lovell & Company. (See Callender, James H., assignor.)
F. H. Lummus Sons Company. (See Grimes, Thaddeus S., assignor.)

F. I. A. T. (See Enrico, Giovanni, assignor.)
F. I. A. T. (See Fornaca, Guido, assignor.)
F. L. Smidth & Co. (See Lindhard, Pool T., assignor.)
F. M. Shaw & Son. (See Heath, Amasa C., assignor.)
F. R. Patch Manufacturing Company. (See Crane, Leslie, assignor.)
F. S. Webster Company. (See Wheeler, Arthur S., assignor.)
F. W. Devoe and C. T. Reynolds Company. (See Whitty, George S., assignor.)
Faas, Henry N., and H. E. Dodson, assignors, by mesne assignments, to The American Seeding Machine Company, Springfield, Ohio. Cultivator. No. 961,762; June 21; Sp. p. 3144; Gaz. vol. 155; p. 565.
Faber, Harry C., Monongah, W. Va. Gas-burner. No. 947,014; Jan. 18; Sp. p. 4488; Gaz. vol. 150; p. 738.
Faber, John R., Mount Pleasant, Mich. Propelling means for motor-vehicles. No. 955,146; Apr. 19; Sp. p. 3128; Gaz. vol. 153; p. 562.
Faber, John R., Mount Pleasant, Mich. Runner. No. 964,151; July 12; Sp. p. 2471; Gaz. vol. 156; p. 405.
Faber, Lina, San Bernardino, Cal. Tire-protector. No. 952,073; Mar. 15; Sp. p. 3264; Gaz. vol. 152; p. 588.
Faber, Stanislaus, Chicago, Ill. Gun-barrel. No. 951,603; Mar. 8; Sp. p. 2306; Gaz. vol. 152; p. 400.
Fabian, Desiderius, Györ, Austria-Hungary. Wafer-machine. No. 949,371; Feb. 15; Sp. p. 3346; Gaz. vol. 151; p. 586.
Fabian, Lawrence, Tracy, Cal. Car-fender. No. 955,147; Apr. 19; Sp. p. 3129; Gaz. vol. 153; p. 562.
Fabric Roll Protector Co. (See Boyd, John W., assignor.)
Fabricated Steel Company, (trustees.) (See Compton, Lewis R., assignor.)
Fabritius, Thoralf, White Plains, N. Y. Clasp. No. 950,764; Mar. 1; Sp. p. 646; Gaz. vol. 152; p. 104.
Fabun, Daniel E., Los Angeles, Cal. Saw-set. No. 977,722; Dec. 6; Sp. p. 674; Gaz. vol. 161; p. 104.
Faccioli, Giuseppe, Schenectady, N. Y., assignor to General Electric Company. Variable-frequency generator. No. 949,320; Feb. 15; Sp. p. 3221; Gaz. vol. 151; p. 568.
Face, Edward W. (See Hitchings and Face.)
Fachmann, Hermann W., Indianapolis, Ind. Game. No. 971,532; Oct. 4; Sp. p. 46; Gaz. vol. 159; p. 10.
Fachs, Albert, New York, N. Y. Moistening-roll. No. 972,607; Oct. 11; Sp. p. 2396; Gaz. vol. 159; p. 409.
Faeh, Ambrose W., Oakland, Cal. Automatic fire-escape. No. 978,571; Dec. 13; Sp. p. 2512; Gaz. vol. 161; p. 428.
Faessler, John W. (See Maupin and Faessler.)
Faessler, John W., and L. K. Smith, Moberly, Mo. Grease-cup-filling device. No. 947,807; Feb. 1; Sp. p. 54; Gaz. vol. 151; p. 12.
Fagan, Eugene, Whittier, Cal. Work-support. No. 970,902; Sept. 20; Sp. p. 3771; Gaz. vol. 158; p. 644.
Fagan, Michael L., Kettner, N. Mex. Machine for sawing or felling trees. No. 945,773; Jan. 11; Sp. p. 1703; Gaz. vol. 150; p. 286.
Fagerlund, Erik A. (See Börjeson and Fagerlund.)
Fagerlund, Erik A., Stockholm, Sweden. Apparatus for automatic extinguishing of lamps after a certain time. No. 947,152; Jan. 18; Sp. p. 4734; Gaz. vol. 150; p. 780.
Fagerström, Johan E., Husqvarna, A. E. Johansson, and K. B. Zetterberg, Gisebo, Sweden. Closing device for bottles or other vessels. No. 945,842; Jan. 11; Sp. p. 1876; Gaz. vol. 150; p. 311.
Faget, Arthur, San Francisco, Cal. Butterfly-valve for air-pipes. No. 965,999; Aug. 2; Sp. p. 335; Gaz. vol. 157; p. 54.
Faget, Arthur, San Francisco, Cal. Car-door closure. No. 970,806; Sept. 20; Sp. p. 3589; Gaz. vol. 158; p. 613.
Faget, Arthur, San Francisco, Cal. Apparatus for economizing power in precooling plants. No. 970,807; Sept. 20; Sp. p. 3591; Gaz. vol. 158; p. 614.
Faget, Arthur, San Francisco, Cal. Refrigerating system. No. 971,182; Sept. 27; Sp. p. 4358; Gaz. vol. 158; p. 764.
Faget, Arthur, San Francisco, Cal. Water-distillation system. No. 971,183; Sept. 27; Sp. p. 4360; Gaz. vol. 158; p. 765.
Faget, Arthur, assignor to Pacific Engineering Company, San Francisco, Cal. Distillation system for ice plants. No. 978,279; Dec. 13; Sp. p. 1873; Gaz. vol. 161; p. 328.
Fahlstrom, Axel A. C., and W. Richards, Appleton, Wis. Cow-tail holder. No. 945,503; Jan. 4; Sp. p. 1075; Gaz. vol. 150; p. 166.
Fahlstrom, Johan E., assignor of one-half to C. B. Hickox, Bridgeport, Conn. Spare-tire holder for automobiles. No. 956,954; May 3; Sp. p. 995; Gaz. vol. 154; p. 156.
Fahnestock Electric Company, The. (See Fahnestock, Ernest B., assignor.)
Fahnestock, Ernest B., New York, N. Y., assignor to The Fahnestock Electric Company. Metal-bending machine No. 979,142; Dec. 20; Sp. p. 3757; Gaz. vol. 161; p. 651.
Fahrenholtz, Heye E. (See Long, William H., assignor.)
Fahrenholz, Andrew L., Brock, Nebr. Rope-winding device. No. 965,146; July 19; Sp. p. 4631; Gaz. vol. 156; p. 773.
Fahrney, William H., Chicago, Ill. Laying pavements under water. No. 961,222; June 14; Sp. p. 1994; Gaz. vol. 155; p. 360.
Fahrney, William H., Chicago, Ill. Vehicle-wheel. No. 979,269; Dec. 20; Sp. p. 4034; Gaz. vol. 161; p. 694.
Fahy, James H., Goldfield, Nev. Giant-powder cap. No. 960,867; June 7; Sp. p. 1263; Gaz. vol. 155; p. 211.
Faile, Edward H., New York, N. Y. Installation of electric conductors. No. 966,086; Aug. 2; Sp. p. 516; Gaz. vol. 157; p. 84.
Failing, Martin L., *et al.* (See Williams, Roger F., assignor.
Fain, George C., Bakersfield, Cal. Gasolene-engine. No. 978,867; Dec. 20; Sp. p. 3105; Gaz. vol. 161; p. 551.
Fairbanks, Alva J. (See Buss and Fairbanks.)
Fairbanks, E. Hayward, *et al.* (See Anck, John M., assignor.)
Fairbanks, John A., assignor to M. B. Fairbanks, Cambridge, Mass. Bridle-bit. No. 976,058; Nov. 15; Sp. p. 4305; Gaz. vol. 160; p. 730.
Fairbanks, Martha B. (See Fairbanks, John A., assignor.)
Fairbanks, Morse and Company. (See Hobart, Franklin G., assignor.)
Fairchild, Allan W., assignor of one-half to J. O'Dell, Neebish, Mich. Wagon-scale. No. 976,351; Nov. 22; Sp. p. 5028; Gaz. vol. 160; p. 854.
Fairchild, Edmund W., Glen Ridge, N. J. Color chart or guide. No. 975,341; Nov. 8; Sp. p. 2843; Gaz. vol. 160; p. 459.
Fairchild, Edwin E., Los Angeles, and F. E. Clark, Florence, Cal. Car-seal. No. 961,223; June 14; Sp. p. 1995; Gaz. vol. 155; p. 360.
Fairchild, Samuel H., Fall River, Mass. Hat-planing machine. No. 962,012; June 21; Sp. p. 3682; Gaz. vol. 155; p. 647.
Fairchild, William G., Savannah, Ga. Calendar. No. 958,106; May 17; Sp. p. 3621; Gaz. vol. 154; p. 610.
Faire, Albert C., Ockbrook, assignor to Faire Bros. & Co. Limited, Leicester, England. Braiding-machine. No. 949,823; Feb. 22; Sp. p. 4280; Gaz. vol. 151; p. 771.
Faire Bros. & Co. Limited. (See Faire, Albert C., assignor.)
Fairfield, George W., U. S. Navy. Oiling system for engines. No. 955,062; Apr. 12; Sp. p. 2963; Gaz. vol. 153; p. 502.
Fairhurst, William S., New York, N. Y. Valve. No. 976,449; Nov. 22; Sp. p. 5245; Gaz. vol. 160; p. 890.
Fairman, Edword, and R. O. Munson, Humboldt, Iowa. Bag-holder. No. 978,441; Dec. 13; Sp. p. 2212; Gaz. vol. 161; p. 383.
Fairman, William P. (See O'Brien, Dennis J., assignor.)
Fairmount Electric and Manufacturing Company. (See Vogel, John C., assignor.)
Fairweather, Malcolm C., and L. W. Theis, Cleveland, Ohio. Fire-extinguisher. No. 952,613; Mar. 22; Sp. p. 4381; Gaz. vol. 152; p. 800.
Fajen, Arthur J., Brooklyn, N. Y., and E. M. Deiller, Newark, N. J. Stop-funnel. No. 967,356; Aug. 16; Sp. p. 3250; Gaz. vol. 157; p. 564.
Fajen, Otto J., Stover, Mo. Record. No. 978,722; Dec. 13; Sp. p. 2828; Gaz. vol. 161; p. 480.
Fake, Irving L., Canandaigua, N. Y. Plow. No. 976,059; Nov. 15; Sp. p. 4306; Gaz. vol. 160; p. 731.
Falasca, Joseph, Yonkers, N. Y. Bung. No. 953,129; Mar. 29; Sp. p. 5492; Gaz. vol. 152; p. 1002.
Falbe, John. (See Stamm, Charles, assignor.)
Falding, Frederic J. (See Channing and Falding.)
Falding, Frederic J., New York, N. Y., assignor of one-half to W. R. Cathcart, Maywood, N. J. Purifying gas and recovering ammonia, &c., therefrom. No. 961,763; June 21; Sp. p. 3150; Gaz. vol. 155; p. 566.
Falding, Frederic J., New York, N. Y., assignor of one-half to W. R. Cathcart, Maywood, N. J. Utilizing by-product metallic salts and ammoniacal liquor. No. 961,764; June 21; Sp. p. 3154; Gaz. vol. 155; p. 566.
Falk, Arthur, assignor to Falk Tobacco Co., New York, N. Y. Tobacco-moistener. No. 946,499; Jan. 11; Sp. p. 3355; Gaz. vol. 150; p. 539.
Falk, Arthur, New York, N. Y., assignor to Falk Tobacco Co., Richmond, Va. Device for filling tobacco-pipes. No. 975,026; Nov. 8; Sp. p. 2161; Gaz. vol. 160; p. 352.
Falk, Martin, Cologne, Germany. Vacuum membrane-pump. No. 953,945; Apr. 5; Sp. p. 518; Gaz. vol. 153; p. 94.
Falk, Morris, Leominster, Mass. Die. No. 949,957; Feb. 22; Sp. p. 4581; Gaz. vol. 151; p. 818.
Falk, Moses, assignor to Falk Tobacco Co., New York, N. Y. Tobacco-moistening device. No. 965,381; July 26; Sp. p. 5140; Gaz. vol. 156; p. 882.
Falk, Oscar F., Belleville, N. J., assignor to National Dictograph Company. Transmitter-mouthpiece. No. 967,747; Aug. 16; Sp. p. 4064; Gaz. vol. 157; p. 696.
Falk, Oscar F., Belleville, N. J., assignor to National Dictograph Company. Telephone dictating machine or apparatus. No. 967,748; Aug. 16; Sp. p. 4065; Gaz. vol. 157; p. 696.
Falk, Salomon, London, England. Means for holding globes or shades in the galleries of electric-light, gas, and other fittings. No. 958,381; May 17; Sp. p. 4331; Gaz. vol. 154; p. 707.
Falk Tobacco Co. (See Falk, Arthur, assignor.)
Falk Tobacco Co. (See Falk, Moses, assignor.)

Alphabetical list of patentees—Continued.

Falk, Walter C., Bluffton, Ind. Automobile transmission-gearing. No. 958,242; May 17; Sp. p. 3890; Gaz. vol. 154; p. 656.
Falker, Henry W., Ashland, F. Schultz and J. F. Wagner, Tamaqua, Pa. Ore and coal washer. No. 977,087; Nov. 29; Sp. p. 6644; Gaz. vol. 160; p. 1133.
Falkos, Theodore, Aurora, Ill. Coaster-brake. No. 958,796; May 24; Sp. p. 5183; Gaz. vol. 154; p. 873.
Fall, Martin, Johnstown, Pa. Furnace-burner. No. 964,902; July 19; Sp. p. 4160; Gaz. vol. 156; p. 693.
Fallick, John M., Beaver Falls, Pa. Potato-digger. No. 954,024; Apr. 5; Sp. p. 683; Gaz. vol. 153; p. 120.
Fallis, Perry W., *et al.* (See Mapel, Lewis A., assignor.)
Fallon, Bernard J., Chicago, Ill. Adjustable guard-rail chair. No. 978,996; Dec. 20; Sp. p. 3404; Gaz. vol. 161; p. 599.
Fallon, John B., Boston, Mass. Liquid-receptacle. No. 966,186; Aug. 2; Sp. p. 742; Gaz. vol. 157; p. 117.
Fallon, Thomas D., Prattville, Ala. Condenser. No. 966,675; Aug. 9; Sp. p. 1785; Gaz. vol. 157; p. 306.
Fallon, Thomas D., Prattville, Ala. Cotton-gin. No. 970,482; Sept. 20; Sp. p. 2856; Gaz. vol. 158; p. 499.
Fallows, Edward H. (See Jones, Harry, assignor.)
Faltus, Joseph, Fall River, Mass. Shuttle-threading mechanism. No. 962,327; June 21; Sp. p. 4380; Gaz. vol. 155; p. 756.
Falvey, John A., Detroit, Mich. Attachment for mail-bag forks. No. 961,487; June 14; Sp. p. 2579; Gaz. vol. 155; p. 449.
Falvey, Thomas, London, England. Steam-turbine. No. 957,151; May 3; Sp. p. 1379; Gaz. vol. 154; p. 221.
Falwell, Wray, Boston, Mass., assignor to Wray Manufacturing Company. Removable spark-plug. No. 978,280; Dec. 13; Sp. p. 1876; Gaz. vol. 161; p. 329.
Fancher, Charles J., Thompsonville, Conn., and J. H. Burt, Brooklyn, N. Y., assignors to The Simplex Manufacturing Company, Thompsonville, Conn. Machine for affixing stamps and labels. No. 952,439; Mar. 15; Sp. p. 3973; Gaz. vol. 152; p. 711.
Fancher, Charles J., Thompsonville, Conn., J. H. Burt and E. Van Winkle, Brooklyn, N. Y., assignors to The Simplex Manufacturing Company, Thompsonville, Conn. Machine for affixing stamps and labels. No. 977,175; Nov. 29; Sp. p. 6857; Gaz. vol. 160; p. 1164.
Fandrey, Albert, Indianapolis, Ind. Making imitation art-glass. No. 951,879; Mar. 15; Sp. p. 2897; Gaz. vol. 152; p. 524.
Fanner, George J., assignor to The Fanner Mfg. Company, Cleveland, Ohio. Tire and rim lock. No. 964,152; July 12; Sp. p. 2471; Gaz. vol. 156; p. 405.
Fanner Mfg. Company, The. (See Fanner, George J., assignor.)
Fanning, Charles E., Davenport, Iowa. Foldable perambulator. No. 970,202; Sept. 13; Sp. p. 2270; Gaz. vol. 158; p. 384.
Fanning, John T., Minneapolis, Minn. Pressure-regulating surge-tank. No. 973,183; Oct. 18; Sp. p. 3721; Gaz. vol. 159; p. 635.
Fanshawe, Henry E., New York, N. Y. Vacuum cleaning apparatus. No. 954,726; Apr. 12; Sp. p. 2228; Gaz. vol. 153; p. 387.
Fanshawe, Henry E., New York, N. Y. Vacuum cleaning apparatus. No. 955,118; Apr. 12; Sp. p. 3060; Gaz. vol. 153; p. 519.
Fant, Paul B., Newark, Ohio. Timer for combustion-engines. No. 956,324; Apr. 26; Sp. p. 5728; Gaz. vol. 153; p. 997.
Farbenfabriken vorm. Friedr. Bayer & Co. (See Bauer and Herre, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Berchelmann, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Berendes, Rudolph, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Bergdolt, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Blank and Bergdolt, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Blank and Heusner, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Blank and Rodionow, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Bourcart, Edmund, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Deinet, Joseph, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Dressel, Kothe, and Hoerlein, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Engelmann, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Grüttefien, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Gunther and Hesse, assignors.) (Reissue.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Günther, Hesse, and Zart, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Herzberg and Runkel, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hofmann and Coutelle, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Jansen and Neelmeier, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Kahn, Myrtil, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Kahn and Ossenbeck, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See König, Walter, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Lommel, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Meckbach, Ernst, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Mieg, Walter, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Mögenburg, Julius, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Ott, René, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Raeder, Heinrich, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Rudolph, Georg, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Runkel and Herzberg, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Schmidt, Robert E., assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Schoeller and Schrauth, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Taub, Ludwig, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Thomaschewski, Paul, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Vagt, August, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Volkmann, Paul, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Weiler, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Weindel, Anton, assignor.)
Färberei- & Appretûr-Gesellschaft (vormals A. Clavel & Fritz Lindenmeyer). (See Clavel, Alexander, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Ehrlich and Schmitz, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Ernst and Eichwede, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Hepp and Hartmann, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt and Bryk, assignors.)
Farbwerke vorm. Meister Lucius & Bruning. (See Schmidt, Bryk, and Voss, assignors.)
Farbwerke vorm. Meister, Lucius & Brüning. (See Schmidt and Kränzlein, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt and Thiess, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Scholl, Franz, assignor.)
Faris, Kyle B., and J. D. Walker, Whitesburg, Tenn.; said Faris assignor to said Walker. Clamp. No. 964,412; July 12; Sp. p. 2977; Gaz. vol. 156; p. 491.
Farkas, Carl, assignor of one-half to H. J. Jaeger, New York, and one-half to C. T. Jaeger, Brooklyn, N. Y. Metallic filament for incandescent lamps. No. 945,504; Jan. 4; Sp. p. 1077; Gaz. vol. 150; p. 166.
Farkas, Karl, assignor of one-half to G. V. Williams, New York, N. Y. Welding metallic filaments to lead wires. No. 975,845; Nov. 15; Sp. p. 3893; Gaz. vol. 160; p. 657.
Farley, Alfred C., and W. B. McDonald, assignors of one-third to L. M. Weller; said Farley assignor of one-third to C. A. Wolcott, Shinglehouse, Pa. Rail-lubricating apparatus. No. 954,383; Apr. 5; Sp. p. 1454; Gaz. vol. 153; p. 242.
Farley, Cyrus H., Portland, Me. Device for handling sheets of glass. No. 980,084; Dec. 27; Sp. p. 5769; Gaz. vol. 161; p. 990.
Farley, Fred E., assignor to Goodell-Pratt Company, Greenfield, Mass. Drill. No. 973,489; Oct. 25; Sp. p. 4362; Gaz. vol. 159; p. 763.
Farley, Fred E., assignor to Goodell-Pratt Company, Greenfield, Mass. Ratchet-drill. No. 977,176; Nov. 29; Sp. p. 6859; Gaz. vol. 160; p. 1165.
Farley, John P., Kansas City, Mo. Self-closing faucet. No. 968,039; Aug. 23; Sp. p. 4675; Gaz. vol. 157; p. 817.
Farley, John P., Kansas City, Mo. Self-closing faucet. No. 971,739; Oct. 4; Sp. p. 483; Gaz. vol. 159; p. 84.
Farley, John W., Cleveland, Ohio. Portable safe-deposit receptacle. No. 963,883; July 12; Sp. p. 1919; Gaz. vol. 156; p. 315.
Farley, Michael H., assignor of one-third to F. Crowley, Bremerton, Wash. Automatic shut-off valve. No. 948,135; Feb. 1; Sp. p. 730; Gaz. vol. 151; p. 120.
Farlin, Irving, Battle Creek, Mich. Awning or window-tent. No. 969,687; Sept. 6; Sp. p. 1132; Gaz. vol. 158; p. 183.
Farlow Draft Gear Co., The. (See Wright, Ira O., assignor.)
Farlow, Isaac F., Dover, N. J. Souvenir-envelop. No. 946,117; Jan. 11; Sp. p. 2435; Gaz. vol. 150; p. 406.
Farmer, Arthur J., Detroit, Mich. Multiple-station telephone-line. No. 949,530; Feb. 15; Sp. p. 3667; Gaz. vol. 151; p. 638.

Alphabetical list of patentees—Continued.

Farmer, Bernard, Chicago, Ill. Air-brake system. No. 952,794; Mar. 22; Sp. p. 4783; Gaz. vol. 152; p. 861.

Farmer, Clyde C., Chicago, Ill., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Conductor's valve for fluid-pressure brakes and signals. No. 979,837; Dec. 27; Sp. p. 5255; Gaz. vol. 161; p. 909.

Farmer, Frank H., assignor, by mesne assignments, to L. Sadler, San Francisco, Cal. Wave-motor. No. 974,869; Nov. 8; Sp. p. 1794; Gaz. vol. 160; p. 298.

Farmer, Fred B., St. Paul, Minn., and W. V. Turner, Wilkinsburg, assignors to The Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 959,128; May 24; Sp. p. 5887; Gaz. vol. 154; p. 986.

Farmer, George B. (See Matheson, Charles A., assignor.)

Farmer, Matthew S., Washington, D. C., assignor, by mesne assignments, to American Automatic Railway Switch Co., Birmingham, Ala. Railway-switch. No. 945,156; Jan. 4; Sp. p. 302; Gaz. vol. 150; p. 52.

Farmer, Mortimer H., Virden, Ill. Lock. No. 960,868; June 7; Sp. p. 1264; Gaz. vol. 155; p. 212.

Farmer, Warren A., Arcade, N. Y. Window. No. 974,870; Nov. 8; Sp. p. 1796; Gaz. vol. 160; p. 298.

Farmer, Warren A., assignor of one-half to B. D. Shedd, Arcade, N. Y. Fire-escape ladder. No. 949,531; Feb. 15; Sp. p. 3670; Gaz. vol. 151; p. 639.

Farmers' Cotton Grader Company. (See Greene, Lemual A., assignor.)

Farnam, Frank W., assignor to National Casket Company, Oneida, N. Y. Hinge. No. 951,944; Mar. 15; Sp. p. 3021; Gaz. vol. 152; p. 547.

Farnam, George D., assignor to Star Rubber Company, Akron, Ohio. Apparatus for forming hot-water bags and other hollow rubber articles. No. 969,464; Sept. 6; Sp. p. 647; Gaz. vol. 158; p. 104.

Farnan, Edward J., Brooklyn, N. Y. Gas-cock. No. 950,382; Feb. 22; Sp. p. 5499; Gaz. vol. 151; p. 963.

Farney, A. W. (See Lanoix, Frederick W., assignor.)

Farnham, Frank E., Providence, R. I. Cuff-pin. No. 945,481; Jan. 4; Sp. p. 1014; Gaz. vol. 150; p. 159.

Farnham, Frank G., Honesdale, Pa. Device for dipping cut-glass articles. No. 967,119; Aug. 9; Sp. p. 2781; Gaz. vol. 157; p. 455.

Farnsworth Company. (See Armstrong, James S., assignor.)

Farnsworth, Henry T., Glade Spring, Va. Water-motor. No. 955,148; Apr. 19; Sp. p. 3131; Gaz. vol. 153; p. 562.

Farnsworth, Henry T., Altavista, Va. Water-motor. No. 959,491; May 31; Sp. p. 6642; Gaz. vol. 154; p. 1132.

Farnsworth, William W., Scranton, Miss. Cotton-picking machine. No. 947,483; Jan. 25; Sp. p. 5548; Gaz. vol. 150; p. 922.

Farnsworth, Willis S., and W. H. Reed, assignors to Coin Controlled Lock Company, Petaluma, Cal. Coin-controlled lock. No. 948,212; Feb. 1; Sp. p. 882; Gaz. vol. 151; p. 145.

Farquhar, Milton J., Wilmington, Ohio. Compensation heat-regulator. No. 963,039; July 5; Sp. p. 21; Gaz. vol. 156; p. 6.

Farr, B. C. (See Coleman, Samuel, assignor.)

Farr, Comfort D., Detroit, Mich. Armored tire for vehicles. No. 952,188; Mar. 15; Sp. p. 3476; Gaz. vol. 152; p. 626.

Farrand, Hiram A., Philadelphia, Pa., assignor to Self-Clinching Nail Company, Camden, N. J. Fastening device. No. 964,226; July 12; Sp. p. 2609; Gaz. vol. 156; p. 430.

Farrand, Oliver M., New York, N. Y. Keyless lock. No. 965,172; July 26; Sp. p. 4687; Gaz. vol. 156; p. 812.

Farrar, Frank S., Lyndon, Kans. Sectional mold for concrete construction. No. 962,560; June 28; Sp. p. 4921; Gaz. vol. 155; p. 862.

Farrar, Harry E., Jackson, Ohio. Washing-machine. No. 950,069; Feb. 22; Sp. p. 4872; Gaz. vol. 151; p. 857.

Farrar, Werter S. (See Clark and Farrar.)

Farrel Foundry and Machine Company. (See Bowen, David R., assignor.)

Farrell, Felix E., *et al.* (See Caywood, James E., assignor.)

Farrell, John, Newton, N. J. Hoisting mechanism. No. 960,298; June 7; Sp. p. 114; Gaz. vol. 155; p. 22.

Farrell, Michael J., and P. J. Dowd, Leominster, Mass. Barrette. No. 977,379; Nov. 29; Sp. p. 7275; Gaz. vol. 160; p. 1235.

Farrell, Philip, Flushing, N. Y. Chain tongs. No. 968,335; Aug. 23; Sp. p. 5334; Gaz. vol. 157; p. 919.

Farrell, Philip H., Flushing, N. Y. Envelop-making machine. No. 972,176; Oct. 11; Sp. p. 1445; Gaz. vol. 159; p. 259.

Farrell, Richard, Tappan, British Columbia, assignor of one-half to H. H. Mead, North Portal, Canada. Amusement device. No. 949,532; Feb. 15; Sp. p. 3671; Gaz. vol. 151; p. 639.

Farrell, Warren D., Ottumwa, Iowa. Hog-grapple. No. 966,676; Aug. 9; Sp. p. 1788; Gaz. vol. 157; p. 306.

Farrer, Charles S., Dunmore, Pa. Slate-picker. No. 957,320; May 10; Sp. p. 1784; Gaz. vol. 154; p. 311.

Farringdon Works, The., *et al.* (See Stanley, Harry F., assignor.)

Farrington, Alanson W., Salem, Mass. Apparatus for slicing material in plug form. No. 951,636; Mar. 8; Sp. p. 2381; Gaz. vol. 152; p. 412.

Farrington, Frank H., Louisville, Ky. Automatic cleaner and polisher. No. 949,717; Feb. 15; Sp. p. 4048; Gaz. vol. 151; p. 703.

Farrington, Ira P., Trinidad, Colo. Insect-destroyer. No. 962,561; June 28; Sp. p. 4926; Gaz. vol. 155; p. 862.

Farrington, Johnathan W., Alba, Tex. Plow attachment. No. 945,774; Jan. 11; Sp. p. 1704; Gaz. vol. 150; p. 286.

Farrington & Whitney. (See Cruikshank and Bock, assignors.)

Farris, Frank H. (See Beezley, Dolphyfus A., assignor.)

Farris, Maurice E., Big Stone Gap, Va. Penholder. No. 952,424; Mar. 15; Sp. p. 3945; Gaz. vol. 152; p. 706.

Farrow, John C. (See Walsh, William J., assignor.)

Farrow, Willard M. (See Lewis and Farrow.)

Farup, Peder, Christiania, Norway. Manufacture of coloring-matter from titaniferous iron minerals. No. 966,815; Aug. 9; Sp. p. 2141; Gaz. vol. 157; p. 353.

Farwell, Fay O., assignor of one-half to The Adams Company, Dubuque, Iowa. Milling-machine. No. 958,243; May 17; Sp. p. 3891; Gaz. vol. 154; p. 657.

Farwell, Fay O., assignor of one-half to The Adams Company, Dubuque, Iowa. Work-holding mechanism for metal-working machines. No. 965,575; July 26; Sp. p. 5590; Gaz. vol. 156; p. 951.

Fassett, Francis K., Dayton, Ohio. Door-hanger. No. 961,850; June 21; Sp. p. 3343; Gaz. vol. 155; p. 594.

Fassett, Francis K., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 965,509; July 26; Sp. p. 5420; Gaz. vol. 156; p. 927.

Fassio, John D., Philadelphia, Pa. Display rack or stand. No. 955,589; Apr. 19; Sp. p. 4083; Gaz. vol. 153; p. 712.

Fässler, Andreas, Immenstadt, Germany. Trestle. No. 965,173; July 26; Sp. p. 4690; Gaz. vol. 156; p. 813.

Fassler, John B., Ward, Pa. Ear-muff. No. 961,765; June 21; Sp. p. 3158; Gaz. vol. 155; p. 567.

Fassnacht, Christopher, South Bend, Ind. Shipping box or case. No. 945,383; Jan. 4; Sp. p. 818; Gaz. vol. 150; p. 127.

Fast, August C., East Orange, N. J. Serving-table for restaurants. No. 978,572; Dec. 13; Sp. p. 2513; Gaz. vol. 161; p. 429.

Fasting, Johan S., assignor to F. L. Smidth & Co., Copartners, Copenhagen, Denmark. Grinding and sifting apparatus. No. 964,629; July 19; Sp. p. 3489; Gaz. vol. 156; p. 596.

Fate, John L., Chicago, Ill. Automatic venting and sealing draw-off fitting. No. 953,027; Mar. 29; Sp. p. 5251; Gaz. vol. 152; p. 968.

Fauber, T. O. (See Nix, John E., assignor.)

Fauber, William H., Chicago, Ill. Hydroplane-boat. No. 956,487; Apr. 26; Sp. p. 6079; Gaz. vol. 153; p. 1053.

Fauber, William H., Chicago, Ill. Hydroplane boat. No. 971,029; Sept. 27; Sp. p. 4018; Gaz. vol. 158; p. 713.

Fauber, William H., Nanterre, France. Aeroplane. No. 971,030; Sept. 27; Sp. p. 4023; Gaz. vol. 158; p. 714.

Faucett, James E., assignor of one-half to M. H. Pelton, Kenmare, N. D. Grain-car door. No. 952,319; Mar. 15; Sp. p. 3746; Gaz. vol. 152; p. 671.

Faulds, Joseph E. (See Garnett, William B., assignor.)

Faulkner, Charles H., assignor to Champion Metal Weather Strip and Parting Bead Company, Boston, Mass. Weather-strip. No. 957,549; May 10; Sp. p. 2247; Gaz. vol. 154; p. 389.

Faulkner, Harley O., *et al.* (See Whitcomb and Faulkner, assignors.)

Faulkner, Joseph E., *et al.* (See Whitcomb and Faulkner, assignors.)

Faulkner, Ray R. (See Whitcomb and Faulkner.)

Faulkner, William D., Clayton, Manchester, England. Weft-controller for automatic looms. No. 968,649; Aug. 30; Sp. p. 5990; Gaz. vol. 157; p. 1053.

Faunt Le Roy, Ferdinand, Hoquiam, Wash. Scenic curtain. No. 975,773; Nov. 15; Sp. p. 3758; Gaz. vol. 160; p. 633.

Faure, Elie F. G. H., Erie, Pa., assignor to Burke Electric Company. Controlling device for electrical apparatus. No. 979,143; Dec. 20; Sp. p. 3763; Gaz. vol. 161; p. 651.

Fauser, Otto, Leipzig, Germany. Producing jointless material for covering walls and the like. No. 945,025; Jan. 4; Sp. p. 31; Gaz. vol. 150; p. 8.

Faust, Casper, Oshkosh, Wis. Safety-gate for bridges. No. 974,558; Nov. 1; Sp. p. 1117; Gaz. vol. 160; p. 168.

Faust, Casper, Oshkosh, Wis. Bridge-gate. No. 979,270; Dec. 20; Sp. p. 4035; Gaz. vol. 161; p. 694.

Faust, Casper, Oshkosh, Wis. Bridge-gate. No. 979,271; Dec. 20; Sp. p. 4037; Gaz. vol. 161; p. 695.

Faust, Charles A., Chicago, Ill. Writing-position adjuster. No. 945,026; Jan. 4; Sp. p. 32; Gaz. vol. 150; p. 8.

Faust, Jacob N., Chicago, Ill. Body-conformer. No. 965,886; Aug. 2; Sp. p. 74; Gaz. vol. 157; p. 15.

Faust, Levin, and F. G. Hogland, assignors to National Lock Company, Rockford, Ill. Mortising-machine. No. 955,834; Apr. 19; Sp. p. 4616; Gaz. vol. 153; p. 798.

Faust, William, Higgins, Tex. Replanting attachment for cultivators. No. 961,290; June 14; Sp. p. 2142; Gaz. vol. 155; p. 384.

Faust, William T., Browerville, Minn. Brooder. No. 978,010; Dec. 6; Sp. p. 1264; Gaz. vol. 161; p. 203.

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Faustman, William, Brooklyn, N. Y. Watchmaker's loop. No. 961,592; June 14; Sp. p. 2803; Gaz. vol. 155; p. 484.
Favero, Mathew. (See Yuill and Favero.)
Fawcett, John W., assignor of one-half to W. B. J. Johnson, Lawrenceburg, Ind. Lathe-dog. No. 958,382; May 17; Sp. p. 4332; Gaz. vol. 154; p. 708.
Fawcett, William, St. Louis, Mo. Drag for molding-flasks. No. 948,167; Feb. 1; Sp. p. 789; Gaz. vol. 151; p. 131.
Fawcett, William E., Swissvale, Pa. Motorman's stool. No. 954,857; Apr. 12; Sp. p. 2549; Gaz. vol. 153; p. 434.
Fawcus, Thomas, Pittsburg, Pa. Double helical gear-wheel. No. 971,980; Oct. 4; Sp. p. 1045; Gaz. vol. 159; p. 174.
Fawell, Joseph, Pittsburg, Pa. Rolling-mill. No. 946,793; Jan. 18; Sp. p. 3983; Gaz. vol. 150; p. 662.
Fawell, Joseph, Pittsburg, Pa. Rolling-mill. No. 946,794; Jan. 18; Sp. p. 3986; Gaz. vol. 150; p. 662.
Fawell, Joseph, Pittsburg, Pa. Rolling-mill. No. 946,795; Jan. 18; Sp. p. 3988; Gaz. vol. 150; p. 663.
Fawell, Joseph, Pittsburg, Pa. Manipulator for rolling-mills. No. 971,740; Oct. 4; Sp. p. 487; Gaz. vol. 159; p. 84.
Fawell, Joseph, Pittsburg, Pa. Rolling-mill. No. 974,559; Nov. 1; Sp. p. 1119; Gaz. vol. 160; p. 169.
Fay, Alpheus, assignor of four-fifths to G. F. Seiser and one-fifth to W. J. Cogle, Louisville, Ky. Apparatus for treating, dehairing, swelling, and tanning hides. No. 971,126; Sept. 27; Sp. p. 4220; Gaz. vol. 158; p. 745.
Fay, Lamartine B. (See Paquette and Deeg, assignors.)
Fay, Thomas J., New York, N. Y., and J. M. Ellsworth, Bernardsville, N. J. Carbureter. No. 960,080; May 31; Sp. p. 7938; Gaz. vol. 154; p. 1333.
Fay, Waldo G., Pelham, N. Y. Eyeglass-mount. No. 958,485; May 17; Sp. p. 4536; Gaz. vol. 154; p. 743.
Fay, Walter L. (See Bowen, Ernest S., assignor.)
Feabrantz, William A., assignor of one-half to O. W. Johnson, Rockford, Ill. Combined gas-burner and hot-water heater. No. 953,262; Mar. 29; Sp. p. 5773; Gaz. vol. 152; p. 1045.
Fear, Charles E., Indianapolis, Ind. Horsehoof appliance. No. 956,955; May 3; Sp. p. 996; Gaz. vol. 154; p. 156.
Fearnow, Brady G., Pittsburg, Pa. Folding umbrella. No. 962,328; June 21; Sp. p. 4383; Gaz. vol. 155; p. 757.
Fearon, James J. and T. E., Philadelphia, Pa., assignors, by mesne assignments, to The Banding Machine Company, Wilmington, Del. Cigar-banding machine. No. 958,244; May 17; Sp. p. 3896; Gaz. vol. 154; p. 657.
Fearon, James J. and T. E., Philadelphia, Pa., assignors, by mesne assignments, to The Banding Machine Company, Wilmington, Del. Device for regulating delivery of plastic substances. No. 960,081; May 31; Sp. p. 7941; Gaz. vol. 154; p. 1333.
Fearon, Thomas E. (See Fearon, James J. and T. E.)
Fearon, Thomas E., assignor of one-half to C. Maloney, Philadelphia, Pa. Cigar-box. No. 951,728; Mar. 8; Sp. p. 2542; Gaz. vol. 152; p. 443.
Febiger, Henry B., New Orleans, La. Guard or deflector for firearms. No. 946,210; Jan. 11; Sp. p. 2636; Gaz. vol. 150; p. 438.
Febiger, Henry B., assignor of one-sixteenth to L. Irwin, five-sixteenths to J. C. Febiger, Jr., two-sixteenths to H. H. Berlin, and two-sixteenths to M. B. Griffin, New Orleans, La. Guard or deflector for side-ejection shoulder-firearms. No. 968,139; Aug. 23; Sp. p. 4897; Gaz. vol. 157; p. 850.
Febiger, Henry B. and J. C., Jr., New Orleans, La. Nut-lock. No. 952,425; Mar. 15; Sp. p. 3946; Gaz. vol. 152; p. 706.
Febiger, John C., Jr. (See Febiger, Henry B. and J. C., Jr.)
Febiger, John C., Jr., *et al.* (See Febiger, Henry B., assignor.)
Fechtig, Johann, Wyhlen, Germany. Shed for aerial vessels. No. 968,336; Aug. 23; Sp. p. 5335; Gaz. vol. 157; p. 919.
Feder, Max, Cleveland, Ohio. Mouthpiece or stem for smokers' articles. No. 973,490; Oct. 25; Sp. p. 4364; Gaz. vol. 159; p. 763.
Federal Electric Company. (See Goehst, John H., assignor.)
Federal Electric Company. (See Goehst and Dunlap, assignors.)
Federal-Huber Company. (See Graham, William S., assignor.)
Fee, Francis J. (See Cuthbert and Fee.)
Fee, Fred W., assignor of one-half to S. F. Klohs, Chicago, Ill. Coaster-brake. No. 951,880; Mar. 15; Sp. p. 2897; Gaz. vol. 152; p. 525.
Feeman, Edmund L., assignor to J. Dunphy, New York, N. Y. Counter and stacker. No. 974,648; Nov. 1; Sp. p. 1302; Gaz. vol. 160; p. 201.
Feeney, Francis, Salford, England. Sole-leveling machine. No. 966,894; Aug. 9; Sp. p. 2302; Gaz. vol. 157; p. 377.
Feeney, Joseph P., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 964,630; July 19; Sp. p. 3492; Gaz. vol. 156; p. 597.
Feeney, Joseph P., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 964,770; July 19; Sp. p. 3891; Gaz. vol. 156; p. 646.
Fees, Allison P., Jeannette, assignor to Window Glass Machine Company, Pittsburg, Pa. Oven-pan for glass cylinders. No. 947,426; Jan. 25; Sp. p. 5393; Gaz. vol. 150; p. 904.
Fefel, Henry H. and J. E., assignors to W. D. Elger, New York, N. Y. Blindstitch sewing-machine. No. 976,256; Nov. 22; Sp. p. 4815; Gaz. vol. 160; p. 823.
Fefel, John E. (See Fefel, Henry H. and J. E.)
Fegley, Thomas J., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Chuck. No. 948,850; Feb. 8; Sp. p. 2267; Gaz. vol. 151; p. 385.
Fegley, Thomas J., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Chuck. No. 952,320; Mar. 15; Sp. p. 3748; Gaz. vol. 152; p. 671.
Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's M'f'g Co., Philadelphia, Pa. Spiral tool-driver. No. 979,939; Dec. 27; Sp. p. 5456; Gaz. vol. 161; p. 942.
Fehnel, Solomon, Allentown, Pa. Mail-bag lock. No. 948,543; Feb. 8; Sp. p. 1601; Gaz. vol. 151; p. 282.
Fehr, William, and J. Kaufmann, assignors to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle. No. 950,169; Feb. 22; Sp. p. 5079; Gaz. vol. 151; p. 891.
Fehr, William, and J. Kaufmann, assignors to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle-frame. No. 952,563; Mar. 22; Sp. p. 4265; Gaz. vol. 152; p. 781.
Fehr, William, and J. Kaufmann, assignors to Steel Heddle Manufacturing Company, Philadelphia, Pa. Machine for making heddles. No. 970,808; Sept. 20; Sp. p. 3592; Gaz. vol. 158; p. 614.
Fehr, William, and J. Kaufmann, assignors to Steel Heddle Manufacturing Company, Philadelphia, Pa. Making heddles. No. 974,130; Nov. 1; Sp. p. 50; Gaz. vol. 160; p. 11.
Feigenbaum, Isaac, Cleveland, Ohio. Trunk-door hinge. No. 948,992; Feb. 15; Sp. p. 2553; Gaz. vol. 151; p. 459.
Feiker, Charles J., Racine, Wis. Headlight. No. 964,413; July 12; Sp. p. 2979; Gaz. vol. 156; p. 492.
Feile, Robert C., Reedsville, Wis. Axle-clutch. No. 967,006; Aug. 9; Sp. p. 2526; Gaz. vol. 157; p. 416.
Feilhuber, Frank, Litchfield, Conn. Road-indicator for vehicles. No. 951,637; Mar. 8; Sp. p. 2384; Gaz. vol. 152; p. 413.
Feinenburg, Johann, Ohligs, Germany. Unfolding pocket-knife. No. 963,428; July 5; Sp. p. 933; Gaz. vol. 156; p. 139.
Feiner, Eugene J. (See Hamann, Richard W., assignor.)
Feingold, Lipa. (See Strasburg and Feingold.)
Feinstein, Abraham, Revere, Mass. Machine for forming wire hat-frames. No. 947,328; Jan. 25; Sp. p. 5162; Gaz. vol. 150; p. 871.
Feinstein, Louis E., Zeeland, N. D. Whiffletree. No. 949,174; Feb. 15; Sp. p. 2977; Gaz. vol. 151; p. 519.
Feist, Charles M., assignor of forty-nine one-hundredths to E. L. Kirk, Sioux City, Iowa. Trolley-stand. No. 979,940; Dec. 27; Sp. p. 5458; Gaz. vol. 161; p. 943.
Feist, Samuel. (See Wolever, Franklin H., assignor.)
Feistel, Augustus R., York, Pa. Machine for making shovel-handles. No. 964,008; July 12; Sp. p. 2176; Gaz. vol. 156; p. 356.
Feistner, William F., Newport, Ky. Lock. No. 949,889; Feb. 22; Sp. p. 4448; Gaz. vol. 151; p. 795.
Feix, Ernst, Bodenbach, Austria-Hungary. Gearing. No. 951,945; Mar. 15; Sp. p. 3022; Gaz. vol. 152; p. 547.
Felbel, Jacob, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 946,118; Jan. 11; Sp. p. 2436; Gaz. vol. 150; p. 406.
Felbel, Jacob, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 955,327; Apr. 19; Sp. p. 3515; Gaz. vol. 153; p. 623.
Felbel, Jacob, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 955,328; Apr. 19; Sp. p. 3522; Gaz. vol. 153; p. 624.
Felbel, Jacob, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 967,894; Aug. 23; Sp. p. 4347; Gaz. vol. 157; p. 767.
Felbel, Jacob, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 975,027; Nov. 8; Sp. p. 2162; Gaz. vol. 160; p. 352.
Feld, Max, and D. Froehlich, New York, N. Y. Dust-pan. No. 959,926; May 31; Sp. p. 7569; Gaz. vol. 154; p. 1279.
Feld, Simon. (See Altman and Feld.)
Feld, Walther, Hönningen-on-the-Rhine, Germany. Treatment of coal-gas and analogous gases for obtaining tar and ammonia. No. 951,778; Mar. 8; Sp. p. 2669; Gaz. vol. 152; p. 461.
Feld, Walther, Hönningen-on-the-Rhine, Germany. Extraction of tar and tar constituents from gases. No. 965,147; July 19; Sp. p. 4632; Gaz. vol. 156; p. 773.
Felder, Otto C., Paterson, N. J. Comb-cleaner. No. 979,660; Dec. 27; Sp. p. 4844; Gaz. vol. 161; p. 849.
Feldkamp, Frederick A., Union, N. J. Lighting appliance. No. 946,796; Jan. 18; Sp. p. 3990; Gaz. vol. 150; p. 663.

Feldkamp, Frederick A., Newark, N. J. Lighting appliance. No. 947,438; Jan. 25; Sp. p. 5415; Gaz. vol. 150; p. 908.
Feldman, Harry E., Chicago, Ill. Display-rack. No. 963,040; July 5; Sp. p. 25; Gaz. vol. 156; p. 6.
Feldman, Harry E., assignor to J. Vaughn, Chicago, Ill. Display-rack. No. 963,129; July 5; Sp. p. 265; Gaz. vol. 156; p. 36.
Feldmann, Charles H., Portland, Oreg. Removable water-holding arch-plate. No. 957,856; May 10; Sp. p. 2866; Gaz. vol. 154; p. 491.
Feldmann, Hirsch, Taganrog, Russia. Safety-lamp. No. 960,869; June 7; Sp. p. 1266; Gaz. vol. 155; p. 212.
Feldmeier, Harvey, assignor to D. H. Burrell & Company, Little Falls, N. Y. Apparatus for pasteurizing milk. No. 972,608; Oct. 11; Sp. p. 2398; Gaz. vol. 159; p. 409.
Feldt, Ferdinand J., Peoria, Ill. Corrugated culvert. No. 977,944; Dec. 6; Sp. p. 1131; Gaz. vol. 161; p. 182.
Feldt, Ferdinand J., Peoria, Ill. Corrugated culvert. No. 977,945; Dec. 6; Sp. p. 1132; Gaz. vol. 161; p. 182.
Feldt, Ferdinand J., assignor to J. A. Engel & Company, Peoria, Ill. Wagon-jack. No. 956,631; May 3; Sp. p. 263; Gaz. vol. 154; p. 44.
Feldt, Ferdinand J., assignor to J. A. Engel & Co., Peoria, Ill. Elevator. No. 977,518; Dec. 6; Sp. p. 226; Gaz. vol. 161; p. 34.
Felheimer, Jerome B., *et al.* (See Phillips, Cornelius R., assignor.)
Felix, Olney M., and G. Gray, Owensboro, Ky. Block-signaling system for railways. No. 946,426; Jan. 11; Sp. p. 3195; Gaz. vol. 150; p. 514.
Felix, Samuel, Dresden, Germany. Making malted food. No. 968,841; Aug. 30; Sp. p. 6413; Gaz. vol. 157; p. 1117.
Felker, Albert G., Marshfield, Wis. Corrugated-metal culvert-pipe. No. 954,673; Apr. 12; Sp. p. 2102; Gaz. vol. 153; p. 369.
Felker, Charles H., Avon, Mass. Poultry-watering device. No. 946,666; Jan. 18; Sp. p. 3703; Gaz. vol. 150; p. 619.
Felker, Charles H., Avon, Mass. Heater for poultry-watering devices. No. 946,667; Jan. 18; Sp. p. 3705; Gaz. vol. 150; p. 619.
Felker, Charles W., Argentine, Kans. Lawn-mower. No. 964,631; July 19; Sp. p. 3493; Gaz. vol. 156; p. 597.
Fell, Julius P., Berclair, Tex. Combined safety-valve and waste-cock. No. 956,062; Apr. 26; Sp. p. 5142; Gaz. vol. 153; p. 906.
Feller, Adolph F., Berkeley, assignor of one-fourth to E. J. Broberg and one-fourth to H. C. Hansen, Oakland, Cal. Combined clutch and multiple transmission. No. 979,272; Dec. 20; Sp. p. 4040; Gaz. vol. 161; p. 695.
Feller, George. (See Hines, Jefferson F., assignor.)
Fellhauer, Ferdinand, Osborn, Mo. Coupling for whiffletrees. No. 966,437; Aug. 9; Sp. p. 1235; Gaz. vol. 157; p. 224.
Fellhauer, Martin. (See Allen, James M., assignor.)
Fellner & Ziegler. (See Helbig, Albin B., assignor.)
Fellowes, Harry L., Chicago, Ill. Measuring device. No. 977,177; Nov. 29; Sp. p. 6861; Gaz. vol. 160; p. 1165.
Fellows Direct Power Transmission Company. (See Fellows, Hugh W., assignor.)
Fellows, Hugh W., Cahuenga, assignor to Fellows Direct Power Transmission Company, Los Angeles, Cal. Power transmission. No. 954,384; Apr. 5; Sp. p. 1457; Gaz. vol. 153; p. 242.
Fellows, Irving D., Syracuse, N. Y. Shoe-rack. No. 953,130; Mar. 29; Sp. p. 5493; Gaz. vol. 152; p. 1002.
Fellows, Thomas, assignor of one-half to Milwaukee Building Company, Los Angeles, Cal. Cooling system for packing-houses. No. 954,674; Apr. 12; Sp. p. 2103; Gaz. vol. 153; p. 369.
Felmlee, John H., Pittsburg, Pa., and E. Felumlee, Coshocton, Ohio. Machine for wrapping packages. No. 967,624; Aug. 16; Sp. p. 3807; Gaz. vol. 157; p. 654.
Felsing, Eduard F., Munich, Germany, assignor to M. W. Felsing. Gelatin composition. No. 974,131; Nov. 1; Sp. p. 52; Gaz. vol. 160; p. 11.
Felsing, Maria W. (See Felsing, Eduard F., assignor.)
Felt, Dorr E., Chicago, Ill. Calculating-machine. No. 960,528; June 7; Sp. p. 578; Gaz. vol. 155; p. 96.
Felten, David. (See Cowan and Felten.)
Felten & Guilleaume-Lahmeyer werke Actien-Gesellschaft. (See Albrecht, Martin, assignor.)
Felton, Thomas W., San Gabriel, Tex. Cotton-cleaner. No. 949,627; Feb. 15; Sp. p. 3853; Gaz. vol. 151; p. 671.
Felton, Thomas W., San Gabriel, Tex. Cotton-chopper. No. 972,836; Oct. 18; Sp. p. 2879; Gaz. vol. 159; p. 513.
Felts, Oscar, Woodford, Tenn. Folding clothes-rack. No. 950,443; Feb. 22; Sp. p. 5610; Gaz. vol. 151; p. 983.
Felumlee, Cornelius S., assignor of one-half to C. V. Priest, Newark, Ohio. Pneumatic stone-marking tool. No. 969,354; Sept. 6; Sp. p. 431; Gaz. vol. 158; p. 69.
Felumlee, Emanuel. (See Felmlee and Felumlee.)
Fender, Frank E., Lincoln, Nebr. Burner. No. 962,329; June 21; Sp. p. 4385; Gaz. vol. 155; p. 757.
Fendrich, Valentine, Brooklyn, N. Y. Boat-whistle. No. 945,311; Jan. 4; Sp. p. 670; Gaz. vol. 150; p. 104.
Fenlason, Orin C., Hoquiam, Wash. Collapsible veneer box for berries, &c. No. 978,868; Dec. 20; Sp. p. 3107; Gaz. vol. 161; p. 551.
Fenn, George M., Charlotte, Mich. Post-hole auger. No. 971,880; Oct. 4; Sp. p. 782; Gaz. vol. 159; p. 136.
Fennel, Jacob W., Newburgh, N. Y. Glove. No. 979,065; Dec. 20; Sp. p. 3552; Gaz. vol. 161; p. 621.
Fennell, John M., Quitman, Ga. Steam-engine. No. 970,903; Sept. 20; Sp. p. 3773; Gaz. vol 158; p. 644.
Fennell, William, Wednesbury, England. Turbine-engine. No. 954,946; Apr. 12; Sp. p. 2738; Gaz. vol. 153; p. 464.
Fenner, Charles W. (See Schaefer, Joseph E., Jr., assignor.)
Fenner, Harry B., Omaha, Nebr. Current water-motor. No. 948,544; Feb. 8; Sp. p. 1603; Gaz. vol. 151; p. 282.
Fenske, Gustav H., Clark, Mo. Post-mold. No. 970,904; Sept. 20; Sp. p. 3774; Gaz. vol. 158; p. 644.
Fensky, Friedrich P., Leavenworth, Kans. Water crib or caisson. No. 976,257; Nov. 22; Sp. p. 4823; Gaz. vol. 160; p. 823.
Fensom, Charles J., Toronto, Ontario, Canada. Pile-construction device. No. 945,086; Jan. 4; Sp. p. 168; Gaz. vol. 150; p. 28.
Fensom, Charles J., Toronto, Ontario, Canada. Friction-clutch. No. 975,846; Nov. 15; Sp. p. 3895; Gaz. vol. 160; p. 658.
Fenton, Chauncey P., *et al.* (See Fongeallaz, Eugene, assignor.)
Fenton, Ephraim H., Kansas City, Mo. Mop-head. No. 948,315; Feb. 8; Sp. p. 1118; Gaz. vol. 151; p. 205.
Fenton, Henry, Glebe Point, near Sydney, New South Wales, Australia. Heel of boots and the like. No. 980,085; Dec. 27; Sp. p. 5771; Gaz. vol. 161; p. 990.
Fenton, William A., Sioux City, Iowa. Gas-pressure regulator. No. 962,503; June 28; Sp. p. 4784; Gaz. vol. 155; p. 842.
Fentress, Frank P., Tacoma, Wash. Two-speed gearing. No. 958,797; May 24; Sp. p. 5185; Gaz. vol. 154; p. 873.
Fentress, Frank P., Tacoma, Wash. Combination rear seat and carrier for motor-cycles. No. 965,093; July 19; Sp. p. 4534; Gaz. vol. 156; p. 756.
Ferber, Philip, assignor to The Keuffel & Esser Company, Hoboken, N. J. Solar transit. No. 955,392; Apr. 19; Sp. p. 3676; Gaz. vol. 153; p. 646.
Ferber, Philip, assignor to The Keuffel & Esser Company, Hoboken, N. J. Surveying instrument. No. 975,682; Nov. 15; Sp. p. 3578; Gaz. vol. 160; p. 602.
Ferger, Herman. (See Ferger, John C., assignor.)
Ferger, John C., Indianapolis, Ind., assignor of one-half to H. Ferger, Chattanooga, Tenn. Baker's oven. No. 954,385; Apr. 5; Sp. p. 1459; Gaz. vol. 153; p. 243.
Ferguson, Albert M., assignor of one-half to T. Bush, Washington, D. C. Extension-ladder. No. 968,040; Aug. 23; Sp. p. 4677; Gaz. vol. 157; p. 817.
Ferguson, Arthur S., Springfield, Mo. Mutoscope. No. 948,272; Feb. 1; Sp. p. 1005; Gaz. vol. 151; p. 165.
Ferguson, Benjamin F., Fayette, Mo. Cooking vessel. No. 951,065; Mar. 1; Sp. p. 1220; Gaz. vol. 152; p. 200.
Ferguson, Bert C., assignor of one-half to M. J. Dale, Oil City, Pa. Automatic advertising device. No. 946,500; Jan. 11; Sp. p. 3356; Gaz. vol. 150; p. 539.
Ferguson Bros. Mfg. Co. (See Campbell, James W., assignor.)
Ferguson, Charles H., Jersey City, N. J. Bolt and nut lock. No. 950,282; Feb. 22; Sp. p. 5315; Gaz. vol. 151; p. 931.
Ferguson, Clarence W., assignor of one-half to Tim & Co. and one-half to C. W. Ferguson Collar Co., Troy, N. Y. Collar. No. 971,031; Sept. 27; Sp. p. 4034; Gaz. vol. 158; p. 714.
Ferguson, George O., Denver, Colo. Inhaler. No. 968,757; Aug. 30; Sp. p. 6246; Gaz. vol. 157; p. 1092.
Ferguson, George P. (See White, William L., assignor.)
Ferguson, George W., Springfield, Mo. Automatic photographic-printing machine. No. 957,665; May 10; Sp. p. 2478; Gaz. vol. 154; p. 428.
Ferguson, George W., Plymouth, Wis. Jointed figure. No. 957,666; May 10; Sp. p. 2480; Gaz. vol. 154; p. 429.
Ferguson, George W., Sheboygan, Wis. Cooker. No. 968,925; Aug. 30; Sp. p. 6582; Gaz. vol. 157; p. 1146.
Ferguson, Harry C., assignor to The Empire Novelty Company, Canton, Ohio. Embroidery-hoop. No. 973,642; Oct. 25; Sp. p. 4690; Gaz. vol. 159; p. 814.
Ferguson, Harry C., assignor to The Empire Novelty Company, Canton, Ohio. Metal-clenching machine. No. 977,178; Nov. 29; Sp. p. 6863; Gaz. vol. 160; p. 1165.
Ferguson, Henry, Sheridan, Wyo. Can-opener. No. 963,283; July 5; Sp. p. 655; Gaz. vol. 156; p. 91.
Ferguson, J. A. (See Todt, Edward G., assignor.)
Ferguson, James A., Cambridge, Mass. Road-machine. No. 949,117; Feb. 15; Sp. p. 2823; Gaz. vol. 151; p. 499.
Ferguson, James H. (See Akerstream and Ferguson.)
Ferguson, James S., Ottawa, Ontario, Canada. Sealing containers. No. 966,537; Aug. 9; Sp. p. 1517; Gaz. vol. 157; p. 259.
Ferguson, James S., assignor of one-half to J. Davidson, Ottawa, Canada. Package. No. 948,503; Feb. 8; Sp. p. 1528; Gaz. vol. 151; p. 269.
Ferguson, James W. (See Boore and Ferguson.)
Ferguson, John H., *et al.* (See Mouzon, Henry D., assignor.)
Ferguson, John H., Dayton, Ohio. Wrench. No. 975,609; Nov. 15; Sp. p. 3410; Gaz. vol. 160; p. 578.

Alphabetical list of patentees—Continued.

Ferguson, Joseph W., Quincy, Mass. Hose-coupling. No. 965,286; July 26; Sp. p. 4926; Gaz. vol. 156; p. 850.
Ferguson, Lyman, Ithaca, assignor of one-half to J. W. Ellis, Buffalo, and one-half to Q. W. Wellington, Corning, N. Y. Metallic ladder. No. 975,223; Nov. 8; Sp. p. 2599; Gaz. vol. 160; p. 420.
Ferguson, Martin D., Los Angeles, Cal. Amusement apparatus. No. 956,488; Apr. 26; Sp. p. 6086; Gaz. vol. 153; p. 1053.
Ferguson, Roderick A. (See McCall, Thomas P., assignor.)
Ferguson, Walton. (See Jackson, Walter M., assignor.)
Ferguson, William G. (See Cunin and Ferguson.)
Ferguson, William H., Le Grande, Oreg. Rotary snow-plow. No. 957,503; May 10; Sp. p. 2153; Gaz. vol. 154; p. 372.
Ferguson, William S., Leesville, La. Feed-water heater. No. 971,599; Oct. 4; Sp. p. 195; Gaz. vol. 159; p. 35.
Ferguson, William T., Weiser, Idaho. Mail receiving and delivering apparatus. No. 969,612; Sept. 6; Sp. p. 988; Gaz. vol. 158; p. 157.
Fergusson, Henry A., St. Louis, Mo. Vacuum cleaning-tool. No. 978,869; Dec. 20; Sp. p. 3108; Gaz. vol. 161; p. 551.
Ferman, Cyral L., Milan, Mich. Pressure-tap. No. 969,355; Sept. 6; Sp. p. 432; Gaz. vol. 158; p. 69.
Fernandez, Michael M., Los Angeles, Cal. Automatic railway-switch. No. 974,560; Nov. 1; Sp. p. 1122; Gaz. vol. 160; p. 169.
Fernandez, Nellie E., Tampa, Fla. Ventilator. No. 945,157; Jan. 4; Sp. p. 304; Gaz. vol. 150; p. 52.
Fernholtz, Emil, Los Angeles, Cal., assignor to The National Briquetting and Clay Working Machinery Company, Phoenix, Ariz. Briquet-machine. No. 952,960; Mar. 22; Sp. p. 5108; Gaz. vol. 152; p. 917.
Ferranti Limited. (See Hamilton, William, assignor.)
Ferranti, Sebastian Z. de, Grindleford Bridge, near Sheffield, England. Process and apparatus for the interconversion of kinetic and potential energy in fluids. No. 948,213; Feb. 1; Sp. p. 885; Gaz. vol. 151; p. 145.
Ferranti, Sebastian Z. de, Grindleford Bridge, near Sheffield, England. Manufacture of strip material suitable for the blades of turbines, turbo-pumps, and the like. No. 960,161; May 31; Sp. p. 8081; Gaz. vol. 154; p. 1359.
Ferranti, Sebastian Z. de, Grindleford Bridge, near Sheffield, England. Metallurgical furnace. No. 962,013; June 21; Sp. p. 3685; Gaz. vol. 155; p. 648.
Ferranti, Sebastian Z. de, Grindleford, England. Vehicle-wheel. No. 964,632; July 19; Sp. p. 3495; Gaz. vol. 156; p. 598.
Ferranti, Sebastian Z. de, Grindleford, England. Interconversion of kinetic and potential energy of fluids. No. 964,633; July 19; Sp. p. 3497; Gaz. vol. 156; p. 598.
Ferranti, Sebastian Z. de, Grindleford Bridge, near Sheffield, England. Turbine-blading machine. No. 969,260; Sept. 6; Sp. p. 236; Gaz. vol. 158; p. 39.
Ferranti, Sebastian Z. de, Grindleford, England. Metallurgical furnace. No. 969,261; Sept. 6; Sp. p. 239; Gaz. vol. 158; p. 39.
Ferranti, Sebastian Z. de, Grindleford, near Sheffield, England. Spinning-machine. No. 970,203; Sept. 13; Sp. p. 2274; Gaz. vol. 158; p. 385.
Ferranti, Sebastian Z. de, Grindleford, near Sheffield, England. Spinning, doubling, and twisting machine. No. 970,617; Sept. 20; Sp. p. 3135; Gaz. vol. 158; p. 546.
Ferranti, Sebastian Z. de, Grindleford Bridge, near Sheffield, England. Swaging-machine. No. 972,837; Oct. 18; Sp. p. 2880; Gaz. vol. 159; p. 513.
Ferranti, Sebastian Z. de, Grindleford Bridge, near Sheffield, England. Electric welding-machine. No. 972,838; Oct. 18; Sp. p. 2882; Gaz. vol. 159; p. 513.
Ferranti, Sebastian Z. de, Hampstead, London, England. Combustion-turbine. No. 960,160; May 31; Sp. p. 8079; Gaz. vol. 154; p. 1359.
Ferrell, Charles B., and J. M. Perrine, Spencer, W. Va. Folding shipping crate or coop. No. 977,791; Dec. 6; Sp. p. 815; Gaz. vol. 161; p. 127.
Ferrell, Frederick C., Clifford, Ill., assignor to R. Smith, Columbia, Tenn. Supporter. No. 949,728; Feb. 15; Sp. p. 4050; Gaz. vol. 151; p. 703.
Ferres, Jeffrey T., Anderson, Ind. Metal transom-bar. No. 967,625; Aug. 16; Sp. p. 3814; Gaz. vol. 157; p. 654.
Ferres, Jeffrey T., Anderson, Ind. Metal window-sill. No. 967,626; Aug. 16; Sp. p. 3815; Gaz. vol. 157; p. 655.
Ferres, Jeffrey T., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind. Partition for boxes. No. 949,958; Feb. 22; Sp. p. 4583; Gaz. vol. 151; p. 819.
Ferres, Jeffrey T., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind. Board. No. 952,074; Mar. 15; Sp. p. 3265; Gaz. vol. 152; p. 588.
Ferres, Jeffrey T., assignor to The Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 974,871; Nov. 8; Sp. p. 1798; Gaz. vol. 160; p. 298.
Ferrick, John J. (See Newman and Ferrick.)
Ferries, James A., Chili, N. Y. Guide for drilling-machines. No. 979,273; Dec. 20; Sp. p. 4042; Gaz. vol. 161; p. 695.
Ferris, Charles H. (See Grills, Thomas O., assignor.)
Ferris, Edgar S., Holyoke, Mass. Shaft-alining device. No. 958,736; May 24; Sp. p. 5026; Gaz. vol. 154; p. 851.
Ferris, Edgar S., assignor of one-third to C. House and one-third to G. A. Whittemore, Holyoke, Mass. Shaft-centering device. No. 953,131; Mar. 29; Sp. p. 5495; Gaz. vol. 152; p. 1002.
Ferris, Henry, Ardoch, N. D. Device for shocking grain by hand. No. 959,492; May 31; Sp. p. 6645; Gaz. vol. 154; p. 1133.
Ferris, Henry, Ardoch, N. D. Hand shocking device. No. 964,009; July 12; Sp. p. 2177; Gaz. vol. 156; p. 356.
Ferris, Henry L. and H. J., Harvard, Ill. Swinging track and supporting-boom therefor. No. 969,465; Sept. 6; Sp. p. 648; Gaz. vol. 158; p. 104.
Ferris, Henry L. and H. J., assignors to Hunt Helm Ferris & Company, Harvard, Ill. Hay-carrier. No. 971,741; Oct. 4; Sp. p. 489; Gaz. vol. 159; p. 85.
Ferris, Howard J. (See Ferris, Henry L. and H. J.)
Ferris, Lewis, Pocatello, Idaho. Digger. No. 969,613; Sept. 6; Sp. p. 990; Gaz. vol. 158; p. 157.
Ferris, Murray W., South Orange, N. J. Abdominal supporter. No. 974,045; Oct. 25; Sp. p. 5517; Gaz. vol. 159; p. 956.
Ferris, Smith, New York, N. Y. Railway-rail joint. No. 976,860; Nov. 29; Sp. p. 6121; Gaz. vol. 160; p. 1054.
Ferris, Walter, assignor to The Bucyrus Company, South Milwaukee, Wis. Ballast-unloader. No. 972,070; Oct. 4; Sp. p. 1212; Gaz. vol. 159; p. 205.
Ferris, Warren B., Columbus, Ohio. Brick-machine. No. 968,140; Aug. 23; Sp. p. 4899; Gaz. vol. 157; p. 850.
Ferris, William D., Sterling, Ill. Door-catch. No. 972,177; Oct. 11; Sp. p. 1447; Gaz. vol. 159; p. 259.
Ferris, William L., Westfield, N. J., assignor to L. E. Waterman Company, New York, N. Y. Fountain-pen. No. 950,817; Mar. 1; Sp. p. 769; Gaz. vol. 152; p. 122.
Ferris, Zachariah C., Caldor, Cal. Water-gage attachment. No. 966,323; Aug. 2; Sp. p. 997; Gaz. vol. 157; p. 161.
Ferris, Zachariah C., Caldor, Cal. Water-wheel. No. 973,419; Oct. 18; Sp. p. 4206; Gaz. vol. 159; p. 716.
Ferro-Concrete Construction Company. (See Anderson, Robert, assignor.)
Ferry, Gilbert E., Omaha, Nebr. Corner-piece for screen-frames. No. 973,643; Oct. 25; Sp. p. 4692; Gaz. vol. 159; p. 815.
Ferry, Joseph D., East McKeesport, Pa. Engine. No. 965,094; July 19; Sp. p. 4535; Gaz. vol. 156; p. 756.
Ferry, Rhoda E. (See Randall, Aaron F., assignor.)
Féry, Charles, and C. Langlet, Paris, France. Electric furnace. No. 978,146; Dec. 13; Sp. p. 1586; Gaz. vol. 161; p. 281.
Fess, Charles J., Newark, N. J., assignor to The Palmer-Price Company. Apparatus for removing paint and varnish. No. 945,505; Jan. 4; Sp. p. 1077; Gaz. vol. 150; p. 167.
Fessenden, George B., assignor to The Eco Magneto Clock Co., Boston, Mass. Electric watchman's clock. No. 974,561; Nov. 1; Sp. p. 1126; Gaz. vol. 160; p. 169.
Fessenden, Reginald A., Washington, D. C. Signaling by electromagnetic waves. No. 956,489; Apr. 26; Sp. p. 6087; Gaz. vol. 153; p. 1054.
Fessenden, Reginald A., Washington, D. C. Receiver for electromagnetic waves. No. 962,016; June 21; Sp. p. 3690; Gaz. vol. 155; p. 649.
Fessenden, Reginald A., Washington, D. C. Wireless telegraphy. No. 974,762; Nov. 1; Sp. p. 1548; Gaz. vol. 160; p. 238.
Fessenden, Reginald A., Brant Rock, Mass. Wireless signaling. No. 960,631; June 7; Sp. p. 804; Gaz. vol. 155; p. 132.
Fessenden, Reginald A., Brant Rock, Mass. Electrical apparatus. No. 962,017; June 21; Sp. p. 3691; Gaz. vol. 155; p. 649.
Fessenden, Reginald A., Brant Rock, Mass. Method of signaling. No. 962,018; June 21; Sp. p. 3694; Gaz. vol. 155; p. 649.
Fessenden, Reginald A., Brant Rock, Mass. Transmission and receipt of electrical energy. No. 979,144; Dec. 20; Sp. p. 3768; Gaz. vol. 161; p. 651.
Fessenden, Reginald A., Brant Rock, Mass. Electrical signaling. No. 979,145; Dec. 20; Sp. p. 3769; Gaz. vol. 161; p. 652.
Fessenden, Reginald A., Washington, D. C., assignor to The National Electric Signaling Company, Pittsburg, Pa. Wireless telegraphy. No. 948,068; Feb. 1; Sp. p. 609; Gaz. vol. 151; p. 98.
Fessenden, Reginald A., Washington, D. C., assignor to The National Electric Signaling Company, Pittsburg, Pa. Electric signaling. No. 962,014; June 21; Sp. p. 3686; Gaz. vol. 155; p. 648.
Fessenden, Reginald A., Washington, D. C., assignor to The National Electric Signaling Company. Receiver for electric signaling. No. 962,015; June 21; Sp. p. 3688; Gaz. vol. 155; p. 648.
Fessler, Weaver F., New Castle, assignor to J. R. Kalish, Pittsburg, Pa. Washboiler attachment. No. 948,008; Feb. 1; Sp. p. 472; Gaz. vol. 151; p. 76.
Festerling, Emil A., Rockford, Ill. Game apparatus. No. 963,754; July 12; Sp. p. 1610; Gaz. vol. 156; p. 271.
Fetherolf, Charles E., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Machine for winding wire. No. 952,005; Mar. 15; Sp. p. 3140; Gaz. vol. 152; p. 566.

Alphabetical list of patentees—Continued.

Fett, John. (See Kimmel, Samuel L., assignor.)
Fetter, Walter. (See Gross and Fetter.)
Fetterly, Charles L., assignor to Kilmarnock Textile Manufacturing Co., Philadelphia, Pa. Woven fabric. No. 975,940; Nov. 15; Sp. p. 4092; Gaz. vol. 160; p. 690.
Fetty, Leon, Hutchinson, Kans. Crude-oil burner. No. 956,695; May 3; Sp. p. 430; Gaz. vol. 154; p. 68.
Fetzer, Allen H., Galion, Ohio. Universal joint. No. 955,256; Apr. 19; Sp. p. 3375; Gaz. vol. 153; p. 601.
Fetzer, Allen H., Galion, Ohio. Universal joint. No. 959,129; May 24; Sp. p. 5890; Gaz. vol. 154; p. 987.
Fetzer, Riley C., assignor to T. E. George, Wooster, Ohio. Thill-strap fastener. No. 949,175; Feb. 15; Sp. p. 2930; Gaz. vol. 151; p. 519.
Fetzer, William, Middletown, Ohio. Grain-drill. No. 951,759; Mar. 8; Sp. p. 2630; Gaz. vol. 152; p. 454.
Few, Frederick C., *et al.* (See Frear, Otto E., assignor.)
Fewell, Cicero A., Glenwood, Ark. Friction-operated dasher for churns. No. 979,274; Dec. 20; Sp. p. 4043; Gaz. vol. 161; p. 696.
Fey, Joseph B., Columbus, Ohio. Massage cup or tip. No. 956,325; Apr. 26; Sp. p. 5730; Gaz. vol. 153; p. 997.
Fiallo, Fabio F., and F. A. Rojas, New York, N. Y. Projecting apparatus. No. 954,947; Apr. 12; Sp. p. 2741; Gaz vol. 153; p. 464.
Fibre Conduit Company, The. (See Bradley, Stephen R., assignor.)
Fichtel & Sachs. (See Schütz, Otto von, assignor.)
Fichtmueller, Julius A. C., New York, assignor to Diamond Decorative Leaf Company, Brooklyn, N. Y. Decorative leaf and making the same. No. 976,994; Nov. 29; Sp. p. 6453; Gaz. vol. 160; p. 1101.
Fiddes, Oscar H., San Francisco, Cal. Electric liquid-heater. No. 945,027; Jan. 4; Sp. p. 33; Gaz. vol. 150; p. 8.
Fiebach, Frank A. R., H. C., and O. L., Lakemills, Wis. Cutter for corn-harvesters. No. 965,134; July 19; Sp. p. 4608; Gaz. vol. 156; p. 768.
Fiebach, Henry C. (See Fiebach, Frank A. R., H. C., and O. L.)
Fiebach, Otto L. (See Fiebach, Frank A. R., H. C., and O. L.)
Fiebeger, Frank, Akron, Ohio. Stove or furnace radiator. No. 970,483; Sept. 20; Sp. p. 2857; Gaz. vol. 158; p. 499.
Fiedler, Anthony, New York, N. Y. Wheel-guard. No. 962,826; June 28; Sp. p. 5458; Gaz. vol. 155; p. 953.
Fiedler, Lothar, Stoke Newington, London, England. Battery charging and discharging system. No. 957,321; May 10; Sp. p. 1787; Gaz. vol. 154; p. 312.
Field, Albert D., Waterbury, Conn. Fastening device. No. 950,802; Mar. 1; Sp. p. 739; Gaz. vol. 152; p. 118.
Field, Albert H., Providence, R. I. Combined receptacle and chain for keys. No. 946,119; Jan. 11; Sp. p. 2440; Gaz. vol. 150; p. 406.
Field, Charles H., Syracuse, N. Y. Valve-grinding device. No. 978,442; Dec. 13; Sp. p. 2213; Gaz. vol. 161; p. 383.
Field Force Pump Company. (See Brooks, Mott B., assignor.)
Field, Frederick F., Lakewood, R. I. Valve mechanism. No. 977,723; Dec. 6; Sp. p. 675; Gaz. vol. 161; p. 104.
Field, Furman A., Scottdale, Pa., assignor to United States Cast Iron Pipe and Foundry Company. Apparatus for making cast-iron pipe. No. 952,893; Mar. 22; Sp. p. 4972; Gaz. vol. 152; p. 895.
Field, Henry. (See Gaunt, John W., assignor.)
Field, James E., *et al.* (See Weigand, Alfred, assignor.)
Field, James H., Victoria, British Columbia, Canada, assignor to The Canadian Taylor Automatic Fire Alarm and Call Bell Company, Limited. Electric alarm and call-bell system. No. 976,562; Nov. 22; Sp. p. 5489; Gaz. vol. 160; p. 928.
Field, James H., assignor to The Canadian Taylor Automatic Fire Alarm and Call Bell Company, Limited, Victoria, Canada. Electrical fire-alarm system. No. 976,645; Nov. 22; Sp. p. 5655; Gaz. vol. 160; p. 956.
Field, James P., Atlanta, Ga. Plow-reversing mechanism. No. 954,567; Apr. 12; Sp. p. 1857; Gaz. vol. 153; p. 332.
Field, John. (See Elmer and Field.)
Field, Louise D., *et al.* (See Stipe, Robert and W., assignors.)
Field, Millard F., Winthrop, C. D. Lanning, E. F. Hathaway, Boston, Mass., and F. C. Blanchard, Fort Wayne, Ind., assignors to American Warp-Drawing Machine Company, Boston, Mass. Pattern-drum-actuated driving mechanism. No. 980,086; Dec. 27; Sp. p. 5772; Gaz. vol. 161; p. 990.
Field, Stephen D., Stockbridge, Mass. Multiplex telegraph apparatus. No. 975,756; Nov. 15; Sp. p. 3719; Gaz. vol. 160; p. 627.
Field, Stephen D., Stockbridge, assignor to Pittsfield Spark Coil Company, Dalton, Mass. Rebounding ignition and spacer device for explosive-engines. No. 966,737; Aug. 9; Sp. p. 1933; Gaz. vol. 157; p. 327.
Field, Wallace L., West De Pere, Wis. Metal-sawing machine. No. 958,614; May 17; Sp. p. 4784; Gaz. vol. 154; p. 785.
Fielden, Isaac C., Lynn, Mass. Spreading-machine. No. 950,617; Mar. 1; Sp. p. 328; Gaz. vol. 152; p. 53.
Fieldhouse, George W., Swissvale, Pa. Adjustable double square. No. 974,479; Nov. 1; Sp. p. 927; Gaz. vol. 160; p. 138.
Fielding, Arthur, Salford, England. Production of dextrin, British gums, and the like. No. 979,753; Dec. 27; Sp. p. 5058; Gaz. vol. 161; p. 880.
Fielding, John, Gloucester, England. Machine for forging metals. No. 962,705; June 28; Sp. p. 5219; Gaz. vol. 155; p. 911.
Fielding, Samuel. (See Watt and Fielding.)
Fields, Jesse W., Prosser, Wash. Device for raising and lowering clothes-lines. No. 960,870; June 7; Sp. p. 1267; Gaz. vol. 155; p. 212.
Fields, Lawrence B., Jeffersonville, Ind. Baling-press. No. 948,759; Feb. 8; Sp. p. 2090; Gaz. vol. 151; p. 355.
Fields, Robert E., Fort Worth, Tex. Indicator for pressure-gages. No. 964,634; July 19; Sp. p. 3498; Gaz. vol. 156; p. 598.
Fields, William, *et al.* (See Humphrey, Edwin H., assignor.)
Fields, William C., *et al.* (See Ashford, Thomas B., assignor.)
Fieschi, Victor D. F., Douai, France. Coke retort-oven. No. 964,635; July 19; Sp. p. 3500; Gaz. vol. 156; p. 599.
Fifield, Chester C., Grand Junction, Iowa. Filter for cisterns. No. 950,018; Feb. 22; Sp. p. 4788; Gaz. vol. 151; p. 841.
Fifield, Frank, Hastings, assignor of one-half to E. E. King, Yankee Springs, Mich. Loading device. No. 960,299; June 7; Sp. p. 116; Gaz. vol. 155; p. 23.
Fifield, Fred A., Toronto, Ontario, Canada, assignor to Eastman Kodak Co., Rochester, N. Y. Photographic plate or film holder. No. 976,354; Nov. 22; Sp. p. 5036; Gaz. vol. 160; p. 855.
Fifield, Warren, Sauk Rapids, Minn., assignor of one-third to A. J. Weber, Castle Rock, Wash. Nut-lock. No. 972,758; Oct. 11; Sp. p. 2709; Gaz. vol. 159; p. 461.
Figge, Conrad, Jersey City Heights, N. J., and A. Zebro, West New York, N. Y. Carousel. No. 973,184; Oct. 18; Sp. p. 3723; Gaz. vol. 159; p. 636.
Figueroa, Pedro P. (See Etcheverry, Justo D., assignor.)
File, William E., Paddock Wood, England. Bottle, jar, and like cover. No. 950,749; Mar. 1; Sp. p. 622; Gaz. vol. 152; p. 99.
Filiberto, Nicolas, Brooklyn, N. Y. Steam-pressure reducing and controlling valve. No. 971,435; Sept. 27; Sp. p. 4833; Gaz. vol. 158; p. 846.
Filler, Paul, Berlin, Germany. Lemon-squeezer. No. 946,668; Jan. 18; Sp. p. 3706; Gaz. vol. 150; p. 620.
Fillingham, Joseph P., assignor to Reo Motor Car Company, Lansing, Mich. Chain-gear casing. No. 966,391; Aug. 2; Sp. p. 1128; Gaz. vol. 157; p. 182.
Fillion, Fred T., North Platte, Nebr. Safety-gate for railway-cars. No. 960,871; June 7; Sp. p. 1268; Gaz. vol. 155; p. 213.
Filman, George A., Barton, Ontario, Canada. Windbreak attachment to hay-tedders. No. 945,028; Jan. 4; Sp. p. 35; Gaz. vol. 150; p. 8.
Filson, Ira, Springfield, Ohio. Safety device for heaters. No. 969,466; Sept. 6; Sp. p. 650; Gaz. vol. 158; p. 105.
Filson, William C., Point Pleasant, W. Va. Key. No. 965,095; July 19; Sp. p. 4540; Gaz. vol. 156; p. 757.
Filteau, Victor, Montreal, Quebec, Canada. Plate-locking device for printing-cylinders. No. 954,506; Apr. 12; Sp. p. 1731; Gaz. vol. 153; p. 311.
Finance, Augustin de, Paris, France. Apparatus for preventing fires in chimneys. No. 946,874; Jan. 18; Sp. p. 4197; Gaz. vol. 150; p. 691.
Finch, Charles M., and F. A. Koetitz, assignors to Finch Jail Building and Metal Company, San Francisco, Cal. Jail-door-operating device. No. 959,329; May 24; Sp. p. 6297; Gaz. vol. 154; p. 1053.
Finch, Herbert I. (See Meston and Finch.)
Finch, Herbert I., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Oscillating electric fan. No. 978,147; Dec. 13; Sp. p. 1588; Gaz. vol. 161; p. 281.
Finch Jail Building and Metal Company. (See Finch and Koetitz, assignors.)
Finch, John S. (See Eames and Finch.)
Finch, Stanley W., Washington, D. C. Toy building-block. No. 956,632; May 3; Sp. p. 267; Gaz. vol. 154; p. 45.
Fincher, James B., Adamsville, Ala. Trousers-fastener. No. 952,321; Mar. 15; Sp. p. 3749; Gaz. vol. 152; p. 672.
Finck, Edwin W. (See Morton, George E., assignor.)
Finck, William C., Elizabeth, N. J., assignor to G. H. Benjamin, New York, N. Y. Gas-producer. No. 968,458; Aug. 23; Sp. p. 5567; Gaz. vol. 157; p. 960.
Finck, William C., Elizabeth, N. J., assignor to G. H. Benjamin, New York, N. Y. Generating high temperatures. No. 980,087; Dec. 27; Sp. p. 5780; Gaz. vol. 161; p. 991.
Fincke, Fred O. H., College Point, N. Y. Pressure gas-valve and controlling means therefor. No. 950,150; Feb. 22; Sp. p. 5027; Gaz. vol. 151; p. 884.
Finckel, George M. (See Owens, George L., assignor.)
Fine Cotton Spinners and Double Association Limited, The. (See Whitehead, Philip B., assignor.)
Finestone, Harris C., and M. Marcus, Boston, Mass. Cap. No. 948,273; Feb. 1; Sp. p. 1007; Gaz. vol. 151; p. 165.
Finical, Noah, Galion, Ohio. Automatic fire-extinguisher. No. 973,185; Oct. 18; Sp. p. 3725; Gaz. vol. 159; p. 636.
Finitzer, Philipp. (See Forster and Finitzer.)

Alphabetical list of patentees—Continued.

Fink, Edward, Milwaukee, Wis. Smelting apparatus. No. 948,468; Feb. 8; Sp. p. 1441; Gaz. vol. 151; p. 257.
Fink, Edward J., Sycamore, Ill. Grinding-tool. No 964,636; July 19; Sp. p. 3503; Gaz. vol. 156; p. 599.
Fink, John J., Washington, D. C. Oil mixture. No. 945,711; Jan. 4; Sp. p. 1504; Gaz. vol. 150; p. 235.
Fink, John W., Pittsburg, Pa. Match-box. No. 973,930; Oct. 25; Sp. p. 5277; Gaz. vol. 159; p. 916.
Fink, Willis J., Elk Point, S. D. Scale. No. 953,522; Mar. 29; Sp. p. 6344; Gaz. vol. 152; p. 1136.
Finkelstein, Marcus, New York, N. Y. Hose-supporter. No. 961,593; June 14; Sp. p. 2804; Gaz. vol. 155; p. 484.
Finkelstein, Maurice S., assignor of one-half to J. Moskowitz, New York, N. Y. Fire-escape. No. 974,781; Nov. 8; Sp. p. 1594; Gaz. vol. 160; p. 268.
Finkler, Dittmar, Bonn, Germany. Rendering bran digestible. No. 953,946; Apr. 5; Sp. p. 520; Gaz. vol. 153; p. 94.
Finkler, Dittmar, Bonn, Germany. Food product. No. 966,324; Aug. 2; Sp. p. 998; Gaz. vol. 157; p. 161.
Finkler, Dittmar, Bonn, Germany. Grinding bran. No. 972,103; Oct. 4; Sp. p. 1272; Gaz. vol. 159; p. 216.
Finlay, Robert H. F., Belfast, Ireland. Manufacture of bicarbonate of soda. No. 961,945; June 21; Sp. p. 3546; Gaz. vol. 155; p. 626.
Finlayson, Christopher C., and J. N. Cain, Bisbee, Ariz. Tunnel-support. No. 963,536; July 5; Sp. p. 1154; Gaz. vol. 156; p. 176.
Finley, Alfred P., Sherman, Tex. Railway-rail and nut-lock for fish-plate bolts. No. 980,146; Dec. 27; Sp. p. 5922; Gaz. vol. 161; p. 1011.
Finley, Ross A., and J. S. Glaspy, assignors of one-third to E. D. Piper, Glenco, Ohio. Metallic tie. No. 966,895; Aug. 9; Sp. p. 2303; Gaz. vol. 157; p. 378.
Finley, Sam. (See Swartz and Finley.)
Finley, Thomas L. (See Johnston, Thomas A., assignor.)
Finley, Thomas L. (See Johnston and Finley.)
Finn, J. M. (See Harwood, Sumpter L., assignor.)
Finn, Thomas. (See Johnson, Samuel J., assignor.)
Finnegan, George H., Fairbanks, Alaska. Steam thawing-tool. No. 958,737; May 24; Sp. p. 5028; Gaz. vol. 154; p. 852.
Finnel, Oscar, and F. Carson, Boulder, Mont. Bridle-bit. No. 956,063; Apr. 26; Sp. p. 5144; Gaz. vol. 153; p. 907.
Finney, Alfred C. (See Plank and Finney.)
Finney, Knute I., Chicago, Ill. Finger-board for musical instruments. No. 967,507; Aug. 16; Sp. p. 3583; Gaz. vol. 157; p. 615.
Finning, Frank J., Nashua, N. H. Journal-brass. No. 948,316; Feb. 8; Sp. p. 1119; Gaz. vol. 151; p. 205.
Finsterbach, Ferdinand E. (See Perkins, Frank C., assignor.)
Fiore, Angelo, Trenton, N. J. Barber's chair. No. 947,015; Jan. 18; Sp. p. 4490; Gaz. vol. 150; p. 739.
Firestone, Harvey S., assignor to Firestone Tire & Rubber Company, Akron, Ohio. Vehicle-tire. No. 947,543; Jan. 25; Sp. p. 5674; Gaz. vol. 150; p. 943.
Firestone, Louis H., Chicago, Ill. Fire-escape. No. 976,861; Nov. 29; Sp. p. 6123; Gaz. vol. 160; p. 1055.
Firestone, Samuel. (See Schrader, Moritz, assignor.)
Firestone, Samuel, *et al.* (See Schrader, Moritz, assignor.)
Firestone Tire & Rubber Company. (See Bosworth, Percy B., assignor.)
Firestone Tire & Rubber Company. (See Firestone, Harvey S., assignor.)
Firm, Joseph L., Berwyn, assignor to The Goss Printing Press Company, Chicago, Ill. Stapling-machine. No. 945,506; Jan. 4; Sp. p. 1080; Gaz. vol. 150; p. 167.
Firm, Joseph L., Berwyn, assignor to The Goss Printing Press Company, Chicago, Ill. Stapling mechanism. No. 945,507; Jan. 4; Sp. p. 1081; Gaz. vol. 150; p. 167.
Firm, Joseph L., Berwyn, assignor to The Goss Printing Press Company, Chicago, Ill. Stapling-machine. No. 955,505; Apr. 19; Sp. p. 3900; Gaz. vol. 153; p. 685.
Firm, Joseph L., Berwyn, assignor to The Goss Printing Press Company, Chicago, Ill. Printing-machine. No. 971,533; Oct. 4; Sp. p. 47; Gaz. vol. 159; p. 11.
Firm, Joseph L., Berwyn, assignor to The Goss Printing Press Company, Chicago, Ill. Printing-machine. No. 971,534; Oct. 4; Sp. p. 48; Gaz. vol. 159; p. 11.
Firsching, Joseph A., Utica, N. Y. Cloth-cutting machine. No. 954,025; Apr. 5; Sp. p. 685; Gaz. vol. 153; p. 120.
First Trust and Savings Bank, trustee. (See Erickson, Charles J., assignor.)
Firth, Edwin, Attleboro, Mass. Clothes-wringer. No. 970,317; Sept. 13; Sp. p. 2510; Gaz. vol. 158; p. 423.
Firth, Franklin E., assignor of one-third to H. C. Roemer and one-third to A. Rasor, Toledo, Ohio. Metal barrel. No. 975,342; Nov. 8; Sp. p. 2844; Gaz. vol. 160; p. 459.
Firth, George G., Brooklyn, N. Y. Sink-leg. No. 950,691; Mar. 1; Sp. p. 485; Gaz. vol. 152; p. 78.
Firth, John. (See Saffell, Chester R., assignor.)
Firth, Joseph, assignor of one-half to J. W. Haas, Charlotte, N. C. Curbing. No. 945,312; Jan. 4; Sp. p. 672; Gaz. vol. 150; p. 104.
Firth & Sons, Thomas. (See Strange, Harry, assignor.)
Firth Sterling Steel Company. (See Wheeler and McKenna, assignors.)
Fischer, Adalbert W., assignor to Schutte and Koerting Company, Philadelphia, Pa. Trip-valve. No. 960,872; June 7; Sp. p. 1270; Gaz. vol. 155; p. 213.
Fischer, Adalbert W., assignor to Schutte and Koerting Company, Philadelphia, Pa. Gate-valve. No. 961,594; June 14; Sp. p. 2805; Gaz. vol. 155; p. 485.
Fischer, Adalbert W., assignor to Schutte and Koerting Company, Philadelphia, Pa. Method of and apparatus for compressing gas. No. 968,926; Aug. 30; Sp. p. 6584; Gaz. vol. 157; p. 1146.
Fischer, Adolf, Stuttgart, Germany. Knife and fork cleaning machine. No. 977,519; Dec. 6; Sp. p. 230; Gaz. vol. 161; p. 34.
Fischer, Albert T., Cleveland, Ohio. Transparent sign. No. 968,459; Aug. 23; Sp. p. 5568; Gaz. vol. 157; p. 960.
Fischer, Alexander, Jr., Cheviot, Ohio. Combined mop head and wringer. No. 973,491; Oct. 25; Sp. p. 4366; Gaz. vol. 159; p. 764.
Fischer, Charles W., and C. Zimmerman, assignors to Theo. A. Koch's Company, Chicago, Ill. Barber's chair. No. 947,380; Jan. 25; Sp. p. 5289; Gaz. vol. 150; p. 889.
Fischer, Christian, Port Arthur, Tex. Cistern. No. 951,683; Mar. 8; Sp. p. 2472; Gaz. vol. 152; p. 428.
Fischer, Christian A., Grand Forks, N. D. Envelop-cutter. No. 950,099; Feb. 22; Sp. p. 4930; Gaz. vol. 151; p. 868.
Fischer, Ernst, Gronau, near Hanover, Germany. Iron-albumin-glycerophosphate and making same. No. 972,523; Oct. 11; Sp. p. 2200; Gaz. vol. 159; p. 380.
Fischer, Ernst, and P. Bergell, Berlin, Germany. Making a neutral sodium salt of lactalbumin. No. 962,753; June 28; Sp. p. 5316; Gaz. vol. 155; p. 929.
Fischer, Florean I., New York, N. Y. Window frame and sash. No. 950,765; Mar. 1; Sp. p. 647; Gaz. vol. 152; p. 105.
Fischer, Frederick G., New Haven, Conn. Folding box. No. 953,132; Mar. 29; Sp. p. 5497; Gaz. vol. 152; p. 1003.
Fischer, Fredrick, Philadelphia, Pa. Boring-machine. No. 966,816; Aug. 9; Sp. p. 2142; Gaz. vol. 157; p. 353.
Fischer, George, New York, N. Y. Bottle-opener. No. 961,224; June 14; Sp. p. 1997; Gaz. vol. 155; p. 360.
Fischer, George, New York, N. Y., and C. E. Stanton, West Hoboken, N. J. Roofing. No. 966,187; Aug. 2; Sp. p. 743; Gaz. vol. 157; p. 117.
Fischer, Henry T., St. Louis, Mo. Valve. No. 950,383; Feb. 22; Sp. p. 5500; Gaz. vol. 151; p. 963.
Fischer, Jacob. (See Cota, Daniel E., assignor.)
Fischer, Jakob, Zurich, Switzerland. Gas apparatus. No. 958,245; May 17; Sp. p. 3908; Gaz. vol. 154; p. 658.
Fischer, John A., Memphis, Tenn. Double-acting spring-hinge. No. 962,330; June 21; Sp. p. 4386; Gaz. vol. 155; p. 757.
Fischer, John R., and J. Ditzler, St. Louis, Mo. Fastener for vessels. No. 945,450; Jan. 4; Sp. p. 950; Gaz. vol. 150; p. 149.
Fischer, Michael. (See Der and Fischer.)
Fischer, Moris, New York, N. Y. Fire-escape apparatus. No. 958,383; May 17; Sp. p. 4335; Gaz. vol. 154; p. 708.
Fischer, Paul. (See Thomaschewski, Raeder, Mieg, and Fischer.)
Fischer, Robert, Brooklyn, N. Y. Scarf-pin holder. No. 963,537; July 5; Sp. p. 1155; Gaz. vol. 156; p. 176.
Fischer, Robert E., and M. Wescher, Elberfeld, Germany. Plant for the manufacture of envelops, paper bags, or the like. No. 952,986; Mar. 22; Sp. p. 5153; Gaz. vol. 152; p. 925.
Fischer, Robert E., and M. Wescher, Elberfeld, Germany. Stacking mechanism for printing, folding, or similar paper-treating machines. No. 958,798; May 24; Sp. p. 5186; Gaz. vol. 154; p. 874.
Fischer, Robert E., and M. Wescher, Elberfeld, Germany. Gumming device for envelop, bag, and like making machines. No. 959,493; May 31; Sp. p. 6647; Gaz. vol. 154; p. 1133.
Fischer, Robert E., and M. Wescher, Elberfeld, Germany. Automatic disconnecting device for paper-treating machines. No. 965,576; July 26; Sp. p. 5592; Gaz. vol. 156; p. 951.
Fischer, Sigmund, Cranston, and W. H. Pruefer, Providence, R. I. Pin. No. 955,453; Apr. 19; Sp. p. 3793; Gaz. vol. 153; p. 666.
Fischer, Theodore J., Chicago, Ill. Culinary implement. No. 959,210; May 24; Sp. p. 6058; Gaz. vol. 154; p. 1013.
Fischer, Victor, Budapest, Austria-Hungary. Wire-stitching instrument. No. 960,300; June 7; Sp. p. 118; Gaz. vol. 155; p. 23.
Fiset, Michel, Albany, N. Y. Stand for cuspidors and like articles. No. 975,941; Nov. 15; Sp. p. 4093; Gaz. vol. 160; p. 690.
Fish, Benjamin F., Chicago, Ill. Fruit-mixing machine. No. 959,726; May 31; Sp. p. 7125; Gaz. vol. 154; p. 1210.
Fish, Charles, and C. Wightman, Little Rock, Ark. Stove-grate. No. 956,064; Apr. 26; Sp. p. 5145; Gaz. vol. 153; p. 907.
Fish, Charles H., Dover, N. H. Hose-rack. No. 946,575; Jan. 18; Sp. p. 3503; Gaz. vol. 150; p. 589.
Fish, George W., Central City, Iowa. Collapsible and adjustable mold for cement culverts. No. 955,779; Apr. 19; Sp. p. 4501; Gaz. vol. 153; p. 777.

Fish, George W., Kalamazoo, Mich., assignor of one-half to C. F. Henry, Rockford, Ill. Miter-box. No. 955,149; Apr. 19; Sp. p. 3134; Gaz. vol. 153; p. 563.
Fish, Myron T., Ithaca, N. Y. Fountain-pen filler. No. 947,468; Jan. 25; Sp. p. 5485; Gaz. vol. 150; p. 917.
Fish, Philmer C., Kansas City, Mo. Automatic poultry-duster. No. 974,252; Nov. 1; Sp. p. 380; Gaz. vol. 160; p. 55.
Fish, Walter C., Lynn, Mass., assignor to General Electric Company. Magnetic core for electric apparatus. No. 952,105; Mar. 15; Sp. p. 3325; Gaz. vol. 152; p. 599.
Fishburn, William R., Birkvill, assignor of one-half to C. E. Burton, Logan, Kans. Pawl-and-ratchet mechanism. No. 952,032; Mar. 15; Sp. p. 3198; Gaz. vol. 152; p. 575.
Fishburne, George R. (See Newberry, Spencer B., assignor.)
Fishburne, Skottowe B., and I. H. Bond, Columbia, S. C. Interconnected clutch and brake operating mechanism. No. 974,649; Nov. 1; Sp. p. 1304; Gaz. vol. 160; p. 201.
Fishel, Henry W., New York, N. Y., assignor to Fishel, Nessler & Company. Jewel-bar. No. 947,897; Feb. 1; Sp. p. 257; Gaz. vol. 151; p. 42.
Fishel, Henry W., New York, N. Y., assignor to Fishel, Nessler & Company. Jewelry. No. 948,044; Feb. 1; Sp. p. 55; Gaz. vol. 151; p. 89.
Fishel, Leo J., New York, N. Y. Attachment for window-sashes. No. 965,096; July 19; Sp. p. 4541; Gaz. vol. 156; p. 757.
Fishel, Nessler & Company. (See Fishel, Henry W., assignor.)
Fisher, Albert, Holmfield, Manitoba, Canada. Cattle-guard for railways. No. 958,865; May 24; Sp. p. 5348; Gaz. vol. 154; p. 898.
Fisher, Albert A. (See Fisher, Joseph E. and A. A.)
Fisher, Alfred, Chicago, Ill. Furnace. No. 957,873; May 17; Sp. p. 2913; Gaz. vol. 154; p. 527.
Fisher, Alfred, Chicago, Ill. Metal-furnace. No. 958,384; May 17; Sp. p. 4337; Gaz. vol. 154; p. 708.
Fisher, Alva J., assignor to Hurley Machine Company, Chicago, Ill. Drive mechanism for washing-machines. No. 966,677; Aug. 9; Sp. p. 1789; Gaz. vol. 157; p. 306.
Fisher, Alva J., assignor to Hurley Machine Company, Chicago, Ill. Journal and bearing. No. 970,030; Sept. 13; Sp. p. 1923; Gaz. vol. 158; p. 326.
Fisher, Charles E., San Francisco, assignor of one-half to G. W. Davis, Haywards, Cal. Educational and amusement device. No. 973,186; Oct. 18; Sp. p. 3727; Gaz. vol. 159; p. 636.
Fisher, Charles W., Epping, N. H. Egg-beater. No. 948,214; Feb. 1; Sp. p. 891; Gaz. vol. 151; p. 145.
Fisher, Clarence G., Rochester, N. Y. Paper-fastener. No. 952,322; Mar. 15; Sp. p. 3751; Gaz. vol. 152; p. 672.
Fisher, Clifford H., Cincinnati, Ohio. Tufting apparatus. No. 952,189; Mar. 15; Sp. p. 3476; Gaz. vol. 152; p. 626.
Fisher, Dudley T., Columbus, Ohio. Illuminated sign. No. 966,538; Aug. 9; Sp. p. 1518; Gaz. vol. 157; p. 260.
Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Highway-crossing device for electric railways. No. 947,612; Jan. 25; Sp. p. 5821; Gaz. vol. 150; p. 967.
Fisher, Eugene A., and J. W. Steinhauser, Bethel, Vt. Hide and other material working machine. No. 950,618; Mar. 1; Sp. p. 329; Gaz. vol. 152; p. 53.
Fisher, Frank, Reardan, Wash. Attachment for monkey-wrenches. No. 964,010; July 12; Sp. p. 2178; Gaz. vol. 156; p. 357.
Fisher, Frank, Reardan, Wash. Horse-releaser. No. 978,281; Dec. 13; Sp. p. 1879; Gaz. vol. 161; p. 329.
Fisher, Fred J., Detroit, Mich. Bending-machine. No. 966,678; Aug. 9; Sp. p. 1795; Gaz. vol. 157; p. 307.
Fisher, George F., North Tonawanda, N. Y. Form for concrete building constructions. No. 957,414; May 10; Sp. p. 1974; Gaz. vol. 154; p. 342.
Fisher, George L., Omaha, Nebr. Casement-fastener. No. 959,494; May 31; Sp. p. 6648; Gaz. vol. 154; p. 1133.
Fisher, George W., Western Run, Md. Automatic brake for vehicles. No. 948,418; Feb. 8; Sp. p. 1344; Gaz. vol. 151; p. 240.
Fisher, George W., assignor of one-half to L. C. Caltrider, Upperco, Md. Vehicle-brake. (Reissue.) No. 13,175; Nov. 29; Sp. p. 7394; Gaz. vol. 160; p. 1249.
Fisher Governor Company, The. (See Pearson, Frederick J., assignor.)
Fisher, Harry M. (See Eckhart and Fisher.)
Fisher, Henry R., Warren, Pa. Advertising device. No. 965,097; July 19; Sp. p. 4543; Gaz. vol. 156; p. 757.
Fisher, Henry W., assignor to Standard Underground Cable Company, Pittsburg, Pa. Cable construction. No. 964,961; July 19; Sp. p. 4267; Gaz. vol. 156; p. 712.
Fisher, Herbert E., San Francisco, Cal. Street-indicator. No. 974,763; Nov. 1; Sp. p. 1549; Gaz. vol. 160; p. 238.
Fisher, James J., *et al.* (See Eynon, William D., assignor.)
Fisher, Jesse E., Lemmon, S. D. Belt-guide. No. 954,618; Apr. 12; Sp. p. 1967; Gaz. vol. 153; p. 349.
Fisher, John H., assignor of one-third to B. M. Bridget and one-third to W. W. Mooney, Washington, D. C. Fastener for gloves and the like. No. 947,808; Feb. 1; Sp. p. 55; Gaz. vol. 151; p. 12.
Fisher, John L., Providence, R. I. Syringe. No. 964,903; July 19; Sp. p. 4161; Gaz. vol. 156; p. 693.
Fisher, Joseph E. and A. A., assignors to Martin Fisher and Sons, Buffalo, N. Y. Ventilator. No. 960,873; June 7; Sp. p. 1273; Gaz. vol. 155; p. 214.
Fisher, Lillie T., administratrix. (See Hart, James E., assignor.)
Fisher, Selina A., Helena, Mont. Hair-curler. No. 951,066; Mar. 1; Sp. p. 1221; Gaz. vol. 152; p. 200.
Fisher and Sons, Martin. (See Fisher, Joseph E. and A. A., assignors.)
Fisher, William, Waynesburg, Pa. Heating-furnace. No. 952,426; Mar. 15; Sp. p. 3948; Gaz. vol. 152; p. 706.
Fisher, William C., Middletown, Conn. Making cartridge-belts. No. 962,331; June 21; Sp. p. 4390; Gaz. vol. 155; p. 758.
Fisher, William C., Middletown, Conn. Cartridge-belt. No. 970,905; Sept. 20; Sp. p. 3775; Gaz. vol. 158; p. 644.
Fisher, William C., Middletown, Conn. Cartridge-belt. No. 970,906; Sept. 20; Sp. p. 3776; Gaz. vol. 158; p. 645.
Fisher, Willis H., Baltimore, Md. Presser-head. No. 955,063; Apr. 12; Sp. p. 2965; Gaz. vol. 153; p. 503.
Fisk, Joshua T., assignor to Crown Optical Company, Rochester, N. Y. Photographic shutter. No. 973,020; Oct. 18; Sp. p. 3328; Gaz. vol. 159; p. 579.
Fisk, Joshua T., assignor to Crown Optical Company, Rochester, N. Y. Photographic shutter. No. 973,021; Oct. 18; Sp. p. 3338; Gaz. vol. 159; p. 579.
Fisk Rubber Company. (See Cole, John C., assignor.)
Fisk Rubber Company, The. (See Jameson, William, assignor.)
Fisk, Willard C., and H. L. White, Orofino, Idaho. Telephone attachment. No. 972,839; Oct. 18; Sp. p. 2886; Gaz. vol. 159; p. 514.
Fisk, William B., Upton, Mass. Liquid-retainer. No. 959,495; May 31; Sp. p. 6650; Gaz. vol. 154; p. 1134.
Fiske, Harold A. (See McBride and Fiske.)
Fiske, Jonathan P. B., Newton, Mass., assignor to R. C. Penfield, New York, N. Y. Brickmaking apparatus. No. 974,782; Nov. 8; Sp. p. 1597; Gaz. vol. 160; p. 269.
Fitch, Benjamin F., assignor of one-half to E. F. Fitch, Chicago, Ill. Amusement device. No. 961,595; June 14; Sp. p. 2808; Gaz. vol. 155; p. 485.
Fitch, Chester. (See Evans, John, assignor.)
Fitch, Edwin F. (See Fitch, Benjamin F., assignor.)
Fitch, Fred H. (See Carlson, Adolph G., assignor.)
Fitch, John H., Ludington, Mich. Explosive-engine. No. 972,071; Oct. 4; Sp. p. 1217; Gaz. vol. 159; p. 205.
Fitchet, Charles L., San Francisco, Cal. Adjustable mirror. No. 978,573; Dec. 13; Sp. p. 2516; Gaz. vol. 161; p. 429.
Fite, Less T., Nashville, Tenn. Calculating-machine. No. 972,072; Oct. 4; Sp. p. 1218; Gaz. vol. 159; p. 206.
Fitton, James, Ossett, England. Machine for carbonizing, shaking, mixing, or similarly treating rags and other materials. No. 964,011; July 12; Sp. p. 2179; Gaz. vol. 156; p. 357.
Fitton, John R., Worcester, Mass. Machine for winding bobbins. No. 951,906; Mar. 15; Sp. p. 2954; Gaz. vol. 152; p. 535.
Fitz, Ervin M., Columbus, Ohio. Electric generating-machine. No. 947,279; Jan. 25; Sp. p. 5047; Gaz. vol. 150; p. 853.
Fitz, Ervin M., Columbus, Ohio. Storage-battery separator. No. 963,284; July 5; Sp. p. 656; Gaz. vol. 156; p. 92.
Fitz, John, Jr., assignor of one-half to J. Zimmerman, Philadelphia, Pa. Photographic-printing mask. No. 960,301; June 7; Sp. p. 122; Gaz. vol. 155; p. 24.
Fitz Gerald, Francis A. J. (See Thomson and Fitz Gerald.)
Fitz Gerald, Francis A. J., Niagara Falls, assignor to Imbert Process Company, New York, N. Y. Electric furnace. No. 950,904; Mar. 1; Sp. p. 929; Gaz. vol. 152; p. 148.
Fitz Gerald, Francis A. J., Niagara Falls, assignor to Imbert Process Company, New York, N. Y. Protecting resisters of electric furnaces. No. 950,905; Mar. 1; Sp. p. 931; Gaz. vol. 152; p. 149.
Fitz Gerald, John W. (See Annable and Fitz Gerald.)
Fitzburger, Christian H., *et al.* (See Stevenson, William A., assignor.)
Fitzburger, George, *et al.* (See Stevenson, William A., assignor.)
Fitzgerald, Edmond B., Rosedale, Miss. Seeder. No. 972,178; Oct. 11; Sp. p. 1451; Gaz. vol. 159; p. 259.
Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Elevated track for carriers. No. 954,275; Apr. 5; Sp. p. 1223; Gaz. vol. 153; p. 205.
Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Elevated track. No. 957,757; May 10; Sp. p. 2669; Gaz. vol. 154; p. 459.
Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Overhead switch. No. 961,433; June 14; Sp. p. 2450; Gaz. vol. 155; p. 431.
Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Portable overhead switch. No. 965,701; July 26; Sp. p. 5852; Gaz. vol. 156; p. 994.

Alphabetical list of patentees—Continued.

Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Overhead switch. No. 967,869; Aug. 16; Sp. p. 4298; Gaz. vol. 157; p. 735.
Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Stop and rebounder for elevated carriers. No. 970,031; Sept. 13; Sp. p. 1926; Gaz. vol. 158; p. 326.
Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Elevated-track system for overhead carriers. No. 970,032; Sept. 13; Sp. p. 1928; Gaz. vol. 158; p. 327.
Fitzgerald, John F., Albany, N. Y. Non-refillable bottle. No. 950,479; Mar. 1; Sp. p. 34; Gaz. vol. 152; p. 7.
Fitzgerald, John J., North Walpole, N. H. Cableway. No. 969,356; Sept. 6; Sp. p. 434; Gaz. vol. 158; p. 70.
Fitzgerald, Robert J., Philadelphia, Pa. Washboiler. No. 968,041; Aug. 23; Sp. p. 4678; Gaz. vol. 157; p. 818.
Fitzgerald, William G. (See Flood and Fitzgerald.)
Fitzgerald, William G., West Ealing, and J. G. Flood, Westcliffe-on-Sea, England. Submarine device for dredging and other similar purposes. No. 958,615; May 17; Sp. p. 4786; Gaz. vol. 154; p. 786.
Fitzgerald, William M. (See Connies, Samuel J., as signor.)
Fitzgerald, William P., Easton, Pa. Bag. No. 958,385; May 17; Sp. p. 4341; Gaz. vol. 154; p. 709.
Fitzgerrell, Harry S. (See Walters and Fitzgerrell.)
Fitzhugh, Phillip A., Gulfport, Miss. Cotton-seed delinter. No. 979,066; Dec. 20; Sp. p. 3553; Gaz. vol. 161; p. 621.
Fitzke, Henry C., Peculiar, Mo. Concrete-mixing machine. No. 945,508; Jan. 4; Sp. p. 1083; Gaz. vol. 150; p. 168.
Fitzpatrick, Eugene F., New York, N. Y. Fireproof arch. No. 948,215; Feb. 1; Sp. p. 892; Gaz. vol. 151; p. 146.
Fitzpatrick, James, Fort Dodge, Iowa. Drain-tile outlet. No. 973,022; Oct. 18; Sp. p. 3348; Gaz. vol. 159; p. 580.
Fitzpatrick, William S., Bloomfield, Mo. Saw-set. No. 978,723; Dec. 13; Sp. p. 2829; Gaz. vol. 161; p. 480.
Fitzsimmons, James J., Chicago, Ill. Base-ball-game device. No. 961,851; June 21; Sp. p. 3345; Gaz. vol. 155; p. 595.
Fitzsimmons, James V. (See Hassing and Fitzsimmons.)
Fitzsimons, Louis E., Waterbury, Conn. Foot-rest. No. 956,326; Apr. 26; Sp. p. 5731; Gaz. vol. 153; p. 997.
Fitzwater, Joseph E. (See Kemp, Loomis, and Fitzwater.)
Fix, Grover G. (See Wallace, Robert S., assignor.)
Fix, Samuel D. W., Amity township, Berks county, Pa. Magazine-firearm. No. 977,859; Dec. 6; Sp. p. 957; Gaz. vol. 161; p. 151.
Flach, Philip T., Norwood, Pa. Brush-holder. No. 959,211; May 24; Sp. p. 6061; Gaz. vol. 154; p. 1013.
Flad, Gotlieb H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-grinder. No. 949,760; Feb. 22; Sp. p. 4141; Gaz. vol. 151; p. 749.
Flade, George F. (See Reith and Flade.)
Flagg, Ernest, New York, N. Y. Reinforced partition-wall. No. 946,211; Jan. 11; Sp. p. 2637; Gaz. vol. 150; p. 439.
Flagg, Horatio W., Martinsburg, W. Va. Draft attachment for plows. No. 951,638; Mar. 8; Sp. p. 2386; Gaz. vol. 152; p. 413.
Flagg, Ray, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Dynamo-electric machine. No. 946,212; Jan. 11; Sp. p. 2639; Gaz. vol. 150; p. 439.
Flaig, John, Broadview, Mont. Tongue-truck for harvesters and binders. (Reissue.) No. 13,169; Nov. 22; Sp. p. 6037; Gaz. vol. 160; p. 1020.
Flamant, Georges F., Paris, France. Separating caoutchouc from resinous products. No. 965,098; July 19; Sp. p. 4545; Gaz. vol. 156; p. 758.
Flambo, Charles C., Kansas City, Kans., assignor to Eagle Manufacturing Company, Kansas City, Mo. Springtrip. No. 959,727; May 31; Sp. p. 7126; Gaz. vol. 154; p. 1210.
Flamm, Paul R., North Chicago, Ill. Mechanic's furnace. No. 961,596; June 14; Sp. p. 2809; Gaz. vol. 155; p. 486.
Flanagan, Blanche M. (See Flanagan, Charles P., assignor.)
Flanagan, Charles P., assignor of nine-tenths to B. M. Flanagan, Altoona, Pa. Feed-receptacle. No. 954,948; Apr. 12; Sp. p. 2743; Gaz. vol. 153; p. 465.
Flanagan, Charles W., *et al.* (See Snowden, Rene R., assignor.)
Flanagan, Denis, Clayton-le-Moors, England. Two-reel sewing-machine. No. 947,381; Jan. 25; Sp. p. 5292; Gaz. vol. 150; p. 889.
Flanders, Louis H., Edgewood Park, Pa., assignor, by mesne assignments, to Westinghouse Storage Battery Company. Spacer and insulator for storage-battery electrodes. No. 950,319; Feb. 22; Sp. p. 5383; Gaz. vol. 151; p. 944.
Flanders, Louis H., Edgewood Park, Pa., assignor, by mesne assignments, to Westinghouse Storage Battery Company. Treating electrodes. No. 953,601; Mar. 29; Sp. p. 6503; Gaz. vol. 152; p. 1162.
Flanders, Louis H., Edgewood Park, assignor, by mesne assignments, to The Electric Storage Battery Company, Philadelphia, Pa. Wood-separator for secondary batteries. No. 963,216; July 5; Sp. p. 490; Gaz. vol. 156; p. 67.
Flanegin, Francis A., Chautauqua, N. Y. Cleaning oil-wells. No. 949,567; Feb. 15; Sp. p. 3749; Gaz. vol. 151; p. 651.
Flanigan, John J., Chicago, Ill. Multiple copying-machine. No. 965,887; Aug. 2; Sp. p. 75; Gaz. vol. 157; p. 15.
Flannery, Michael A., Newport, Ky., assignor to The E. H. Huenefeld Company, Cincinnati, Ohio. Knockdown portable oven. No. 964,855; July 19; Sp. p. 4058; Gaz. vol. 156; p. 676.
Flatau, Louis S., St. Louis, Mo. Coffee-maker. No. 980,088; Dec. 27; Sp. p. 5781; Gaz. vol. 161; p. 991.
Flatau, Louis S., assignor to Rabok Manufacturing Company, St. Louis, Mo. Railway-tie. No. 953,602; Mar. 29; Sp. p. 6504; Gaz. vol. 152; p. 1162.
Flatau, Louis S., assignor to Rabok Manufacturing Co., St. Louis, Mo. Railway-tie. No. 972,609; Oct. 11; Sp. p. 2400; Gaz. vol. 159; p. 410.
Flather, Mark, Nashua, N. H. Speed-box for shaping-machines and the like. No. 947,228; Jan. 25; Sp. p. 4903; Gaz. vol. 150; p. 836.
Flather, Mark, Nashua, N. H. Friction feed mechanism. No. 950,480; Mar. 1; Sp. p. 36; Gaz. vol. 152; p. 8.
Flavin, Thomas J. (See Foulke and Flavin.)
Fleak, Glen, Terlton, assignor of one-half to A. G. Sechrist, Lawton, Okla. Advertising device. No. 953,824; Apr. 5; Sp. p. 286; Gaz. vol. 153; p. 51.
Fleege, Frank H., assignor to R. J. Leacock, trustee, St. Louis, Mo. Centrifugal separator. No. 961,488; June 14; Sp. p. 2580; Gaz. vol. 155; p. 450.
Fleer, Henry, *et al.* (See Britton, Robb, assignor.)
Fleet, James A. (See Chandler and Fleet.)
Fleigel, Benjamin, assignor to B. Fleigel Company, Boston, Mass. Guide for sewing-machines. No. 959,330; May 24; Sp. p. 6300; Gaz. vol. 154; p. 1053.
Fleischbein, Louis. (See Jackson and Fleischbein.)
Fleischman, Isdore. (See Fleischman, Jacob, assignor.)
Fleischman, Jacob, assignor of one-half to I. Fleischman, Jersey City, N. J. Automobile-radiator. No. 975,343; Nov. 8; Sp. p. 2845; Gaz. vol. 160; p. 460.
Fleming, Adrian S., and J. Curry, Vancouver, Wash.; said Fleming assignor to M. G. Fleming, Fort D. A. Russell, Wyo. Military field-table. No. 958,799; May 24; Sp. p. 5187; Gaz. vol. 154; p. 874.
Fleming, Allison H., Fairmont, W. Va. Package-tie. No. 963,884; July 12; Sp. p. 1920; Gaz. vol. 156; p. 315.
Fleming, Daniel B., Hartford, Ark. Coffee-condenser. No. 958,616; May 17; Sp. p. 4789; Gaz. vol. 154; p. 786.
Fleming, Frank M., Huntington Beach, Cal. Bicycle-seat. No. 969,096; Aug. 30; Sp. p. 6922; Gaz. vol. 157; p. 1205.
Fleming, George, Chicago, Ill. Filter. No. 976,995; Nov. 29; Sp. p. 6458; Gaz. vol. 160; p. 1102.
Fleming, George T. (See Cobb and Fleming.)
Fleming, George W., Bradford, Pa. Water-closet valve. No. 955,780; Apr. 19; Sp. p. 4503; Gaz. vol. 153; p. 778.
Fleming, Henry C., and W. F. Royster, Denison, Tex. Match-box. No. 945,775; Jan. 11; Sp. p. 1705; Gaz. vol. 150; p. 286.
Fleming, Henry C., and W. F. Royster, Denison, Tex. Match-box. No. 977,441; Dec. 6; Sp. p. 26; Gaz. vol. 161; p. 7.
Fleming, Howard C., Watertown, Mass. Coin-controlled mechanism for automatic vending-machines. No. 973,492; Oct. 25; Sp. p. 4367; Gaz. vol. 159; p. 764.
Fleming, Howard C., Watertown, Mass. Door-check. No. 978,870; Dec. 20; Sp. p. 3110; Gaz. vol. 161; p. 552.
Fleming, James A., Pittsburg, Pa. Pipe-coupling. No. 954,177; Apr. 5; Sp. p. 1020; Gaz. vol. 153; p. 173.
Fleming, John A., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Instrument for detecting electric oscillations. No. 954,619; Apr. 12; Sp. p. 1970; Gaz. vol. 153; p. 349.
Fleming, John C., Washington, D. C. Apparatus for refining oil. No. 956,065; Apr. 26; Sp. p. 5146; Gaz. vol. 153; p. 907.
Fleming, John C., Washington, D. C. Refining-machine. No. 960,529; June 7; Sp. p. 590; Gaz. vol. 155; p. 96.
Fleming, Luke G., Tarrytown, N. Y. Vehicle-wheel. No. 968,337; Aug. 23; Sp. p. 5335; Gaz. vol. 157; p. 919.
Fleming, Mabel G. (See Fleming and Curry, assignors.)
Fleming, Richard, Swampscott, Mass., assignor to General Electric Company. Smelting sulfur ores. No. 945,926; Jan. 11; Sp. p. 2054; Gaz. vol. 150; p. 342.
Fleming, Richard, Lynn, Mass., assignor to General Electric Company. Voltage-regulator. No. 971,184; Sept. 27; Sp. p. 4363; Gaz. vol. 158; p. 765.
Fleming, Richard, and C. A. B. Halvorson, Jr., Lynn, Mass., assignors to General Electric Company. Arc-lamp. No. 964,691; July 19; Sp. p. 3725; Gaz. vol. 156; p. 619.
Fleming, Samuel B., Chicago, Ill. Digging apparatus. No. 951,907; Mar. 15; Sp. p. 2956; Gaz. vol. 152; p. 535.
Fleming, Samuel H., Camden, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Treating glycerin. No. 969,159; Sept. 6; Sp. p. 15; Gaz. vol. 158; p. 6.
Fleming, Samuel H., Camden, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Treating glycerin. No. 978,443; Dec. 13; Sp. p. 2215; Gaz. vol. 161; p. 384.

Alphabetical list of patentees—Continued.

Fleming, William S. S., Portland, Oreg. Lawn-trimming implement. No. 971,000; Sept. 20; Sp. p. 3951; Gaz. vol. 158; p. 675.

Fleming, Wills M., Holyoke, Mass., assignor to International Steam Pump Company, New York, N. Y. Injector-condenser. No. 949,761; Feb. 22; Sp. p. 4143; Gaz. vol. 151; p. 749.

Flemming, John W., Albany, N. Y. Portable lathe. No. 952,564; Mar. 22; Sp. p. 4267; Gaz. vol. 152; p. 782.

Flemming, William J., Richmond Hill, N. Y. Condenser and mold for carbon dioxid. No. 955,454; Apr. 19; Sp. p. 3795; Gaz. vol. 153; p. 666.

Flentje, Ernst, Cambridge, Mass. Hanger for shock-absorbers. (Reissue.) No. 13,148; Aug. 30; Sp. p. 7038; Gaz. vol. 157; p. 1224.

Flerlage, Frank. (See Van Pietersom and Flerlage.)

Flessa, George, Rawhide, Nev. Switch-operating mechanism. No. 962,562; June 28; Sp. p. 4927; Gaz. vol. 155; p. 863.

Fletcher, Albert F., Cleveland, Ohio. Conical pivot-bearing. No. 945,712; Jan. 4; Sp. p. 1505; Gaz. vol. 150; p. 235.

Fletcher, Alfred W., Brooklyn, N. Y. Construction of chimneys. No. 973,023; Oct. 18; Sp. p. 3349; Gaz. vol. 159; p. 580.

Fletcher, Clinton, assignor of two-fifths to G. W. Ward, Veedersburg, Ind. Handle-shaping machine. No. 955,639; Apr. 19; Sp. p. 4203; Gaz. vol. 153; p. 730.

Fletcher, Henry O., Hyde Park, Mass. Shuttle-locking device for shoe-sewing machines. No. 962,206; June 21; Sp. p. 4126; Gaz. vol. 155; p. 716.

Fletcher, Iza J., Elmira, N. Y. Sleeve-protector. No. 946,541; Jan. 18; Sp. p. 3448; Gaz. vol. 150; p. 579.

Fletcher, J., *et al.* (See McPherson, William E., assignor.)

Fletcher, Joseph, *et al.* (See Dodson, Charles I., assignor.)

Fletcher, Joseph, Brick School, N. C. Adjustable bench-dog. No. 972,610; Oct. 11; Sp. p. 2401; Gaz. vol. 159; p. 410.

Fletcher, Joseph, Stoke Newington, assignor to C. W. Harrison, London, England. Stop-valve and the like. No. 959,728; May 31; Sp. p. 7128; Gaz. vol. 154; p. 1210.

Fletcher, Stoughton A., trustee. (See Lowry and Bernhard, assignors.)

Fletcher, William. (See Holbourns and Fletcher.)

Flettner, Charles, New York, N. Y. Adjusting device for music-rolls. No. 955,506; Apr. 19; Sp. p. 3901; Gaz. vol. 153; p. 685.

Fleury, Louis A., Jr., assignor of one-fourth to H. C. Dippel, Indianapolis, Ind. Conduit-hood. No. 975,757; Nov. 15; Sp. p. 3723; Gaz. vol. 160; p. 628.

Fleuss, Henry A., Reading, England. Rotary mercury vacuum-pump. No. 947,988; Feb. 1; Sp. p. 435; Gaz. vol. 151; p. 70.

Flewell, Walter H., Mountain Home, Idaho. Cattle-stanchion. No. 971,981; Oct. 4; Sp. p. 1046; Gaz. vol. 159; p. 175.

Flexible Bolt Company. (See Thompson, George S., assignor.)

Flichtner, Stanwood E., Englewood, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Adjustable support for vapor-lamps. No. 946,027; Jan. 11; Sp. p. 2256; Gaz. vol. 150; p. 375.

Flichtner, Stanwood E., Englewood, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Starter and circuit for vapor devices. No. 956,066; Apr. 26; Sp. p. 5147; Gaz. vol. 153; p. 908.

Flick, Lorenz. (See Butler and Flick.)

Flinchbaugh, Frederick T., York, Pa. Governor mechanism for internal-combustion engines. No. 966,896; Aug. 9; Sp. p. 2305; Gaz. vol. 157; p. 378.

Flinchbaugh, Frederick T., York, Pa. Reversible internal-combustion engine. No. 967,749; Aug. 16; Sp. p. 4067; Gaz. vol. 157; p. 696.

Flindall, John, Chicago, Ill. Tilting-chair. No. 958,998; May 24; Sp. p. 5616; Gaz. vol. 154; p. 943.

Flindall, John, Chicago, Ill. Foot-rest. No. 972,073; Oct. 4; Sp. p. 1220; Gaz. vol. 159; p. 206.

Flinker, Leon A., New York, N. Y. Holder for razor-blades. No. 949,999; Feb. 22; Sp. p. 4720; Gaz. vol. 151; p. 834.

Flinn, George A., assignor of one-half to C. Lochner, Fort Wayne, Ind. Mail-wagon. No. 970,437; Sept. 13; Sp. p. 2741; Gaz. vol. 158; p. 462.

Flinn, Richard J., Boston, Mass. Attachment for steam-traps. No. 959,927; May 31; Sp. p. 7570; Gaz. vol. 154; p. 1279.

Flint, Edgar, Toronto, Ontario, Canada. Vacuo despatch system. No. 973,931; Oct. 25; Sp. p. 5278; Gaz. vol. 159; p. 916.

Flint, William H., *et al.* (See Love, John T., assignor.)

Flint, William P., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Gas-engine-exhaust-valve water connection. No. 971,881; Oct. 4; Sp. p. 784; Gaz. vol. 159; p. 136.

Flintkote Manufacturing Company. (See Du Four, Joseph L. M., assignor.)

Flintkote Manufacturing Company. (See Overbury, Frederick C., assignor.)

Flintoft, Carrie I., Lakewood, Ohio. Mattress. No. 976,352; Nov. 22; Sp. p. 5032; Gaz. vol. 160; p. 854.

Flitcraft, John M., Elkhart, assignor of one-half to J. W. Fryer, Osceola, Iowa. Acetylene-gas generator. No. 967,357; Aug. 16; Sp. p. 3251; Gaz. vol. 157; p. 564.

Flitcroft, James E., Ocean Grove, assignor to O. Bernz, Newark, N. J. Burner. No. 975,518; Nov. 15; Sp. p. 3213; Gaz. vol. 160; p. 547.

Flohr, Josy, Rodange, assignor to Societe Anonyme des Hauts Fourneaux J. Forges, Dudelange, Luxemburg, Refining iron. No. 968,758; Aug. 30; Sp. p. 6247; Gaz. vol. 157; p. 1092.

Flood, Edward H. R. (See Odell and Humason, assignors.)

Flood, John, Ashtabula, Ohio. Border for side-wall registers. No. 947,809; Feb. 1; Sp. p. 58; Gaz. vol. 151; p. 13.

Flood, John G. (See Fitzgerald and Flood.)

Flood, John G., Westcliffe-on-Sea, and W. G. Fitzgerald, West Ealing, England. Diving-bell apparatus for submarine work. No. 962,019; June 21; Sp. p. 3697; Gaz. vol. 155; p. 649.

Flood, Louis I., Shelbyville, Mo. Refrigerator-pail. No. 962,504; June 28; Sp. p. 4785; Gaz. vol. 155; p. 842.

Flood, Thomas A. (See O'Byrne and Flood.)

Flora, Ellsworth E., Chicago, Ill. Locking device for windows, transoms, or the like. No. 958,386; May 17; Sp. p. 4342; Gaz. vol. 154; p. 709.

Flora, George W., Attica, Ind. Cutting apparatus. No. 960,874; June 7; Sp. p. 1278; Gaz. vol. 155; p. 214.

Flora, Perry, Owingsville, Ky. Incubator-alarm. No. 948,504; Feb. 8; Sp. p. 1530; Gaz. vol. 151; p. 270.

Florence, J. Esdaile, trustee. (See Conley, Michael R., assignor.)

Florence, W. L. (See McCain, John A., assignor.)

Florenz, Matthias, Lawrence, Mass. Self-leveling table. No. 969,614; Sept. 6; Sp. p. 991; Gaz. vol. 158; p. 158.

Florsheim, Leonard S., *et al.* (See Florsheim, Sidney E., assignor.)

Florsheim, Norman S., *et al.* (See Florsheim, Sidney E., assignor.)

Florsheim, Sidney E., assignor of one-fourth to S. Florsheim, one-fourth to L. S. Florsheim, and one-fourth to N. S. Florsheim, Chicago, Ill. Corset-clamp. No. 967,627; Aug. 16; Sp. p. 3817; Gaz. vol. 157; p. 655.

Florsheim, Simon, *et al.* (See Florsheim, Sidney E., assignor.)

Flory, Ira H., Arcanum, Ohio. Wrench. No. 955,781; Apr. 19; Sp. p. 4505; Gaz. vol. 153; p. 778.

Flory, John W., Dayton, Ohio. Fireless cooker. No. 971,260; Sept. 27; Sp. p. 4518; Gaz. vol. 158; p. 790.

Flothow, Alfred C. (See Coleman, William C., assignor.)

Flotron, Henry J., and J. J. Hamilton, New York, N. Y., assignors to Noequal Door Co. Door for cold-storage rooms. No. 955,782; Apr. 19; Sp. p. 4507; Gaz. vol. 153; p. 779.

Flotteur Gesellschaft mit beschraenkter Haftung. (See Haxthausen, Frederic C. von, assignor.)

Flounders, Frederick H. and F. R., Ridgely, Md. Machine for shaking canned goods. No. 965,802; July 26; Sp. p. 6066; Gaz. vol. 156; p. 1028.

Flower, Charles E., administrator. (See Flower, Samuel A.)

Flower, James H., Ashtabula, Ohio. Blowpipe. No. 972,759; Oct. 11; Sp. p. 2710; Gaz. vol. 159; p. 461.

Flower, Samuel A., deceased, New York, N. Y.; C. E. Flower, administrator. Making a resilient fiber. No. 957,152; May 3; Sp. p. 1383; Gaz. vol. 154; p. 222.

Flowers, Emory E. (See White and Flowers.)

Flowers, John C. (See Lance, Flowers, and Lance.)

Flowers, Samuel, Galion, Ohio. Washing-machine. No. 964,227; July 12; Sp. p. 2614; Gaz. vol. 156; p. 430.

Floyd, Frank F. (See Miller, William G., assignor.)

Floyd, George G., Kirkwood, Mo. Manufacture of lime and gas. No. 948,045; Feb. 1; Sp. p. 557; Gaz. vol. 151; p. 89.

Floyd, George G., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Car-truck side frame and journal-box. No. 956,633; May 3; Sp. p. 271; Gaz. vol. 154; p. 45.

Floyd, George G., Granite, Ill., assignor to American Steel Foundries, New York, N. Y. Three-tie rail-support. No. 962,423; June 28; Sp. p. 4608; Gaz. vol. 155; p. 814.

Floyd, George G., Granite, Ill., assignor to American Steel Foundries, New York, N. Y. Rail-joint support. No. 962,424; June 28; Sp. p. 4609; Gaz. vol. 155; p. 814.

Floyd, George G., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Car-truck. No. 973,024; Oct. 18; Sp. p. 3351; Gaz. vol. 159; p. 580.

Floyd, George G., Granite, Ill., assignor, by mesne assignments, to Twinplex Manufacturing Company, St. Louis, Mo. Razor-blade sharpener. No. 959,496; May 31; Sp. p. 6651; Gaz. vol. 154; p. 1134.

Floyd, Harrison D., North Fork, Wis. Animal poke or yoke. No. 970,484; Sept. 20; Sp. p. 2859; Gaz. vol. 158; p. 500.

Fludder, Albert W. (See Fludder, George C., G. E., and A. W.)

Fludder, George C., G. E., and A. W., Alresford, Colchester, England. Manufacturing refractory material. No. 976,996; Nov. 29; Sp. p. 6460; Gaz. vol. 160; p. 1102.

Fludder, George E. (See Fludder, George C., G. E., and A. W.)

Flues, Emil F., Ithaca, N. Y. Single-trigger mechanism for firearms. No. 980,174; Dec. 27; Sp. p. 5995; Gaz. vol. 161; p. 1021.

Alphabetical list of patentees—Continued.

Fluke, Cloyd M., Pittsburg, Pa. Reflector. No. 948,216; Feb. 1; Sp. p. 893; Gaz. vol. 151; p. 146.
Fly, Nathaniel D., Alice, Tex. Combination fish-bucket. No. 963,285; July 5; Sp. p. 656; Gaz. vol. 156; p. 92.
Flynn, Daniel C. (See Cudd, Simeon S., assignor.)
Flynn & Emrich Company. (See Partridge, Lambert W., assignor.)
Flynn, Maurice F., Chicago, Ill. Box for bottles. No. 945,121; Jan. 4; Sp. p. 233; Gaz. vol. 150; p. 40.
Flynn, Michael, Superior, Wis. Thresher-concave. No. 952,795; Mar. 22; Sp. p. 4783; Gaz. vol. 152; p. 861.
Flynn, Olice A., Tacoma, Wash. Clown-doll. No. 958,387; May 17; Sp. p. 4343; Gaz. vol. 154; p. 709.
Flynn, William D., Spray, N. C. Buckle. No. 975,942; Nov. 15; Sp. p. 4094; Gaz. vol. 160; p. 691.
Flynn, William D., Spray, N. C. Suspender attachment. No. 979,838; Dec. 27; Sp. p. 5256; Gaz. vol. 161; p. 910.
Flynt, Louis W. G., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Imitation-stitch machine. No. 958,913; May 24; Sp. p. 5460; Gaz. vol. 154; p. 915.
Foans, Andrew B., New York, N. Y. Merry-go-round. No. 952,242; Mar. 15; Sp. p. 3586; Gaz. vol. 152; p. 645.
Focht, George, Hoboken, N. J. Bottom-dump bucket. No. 946,726; Jan. 18; Sp. p. 3822; Gaz. vol. 150; p. 638.
Focht, George, Hoboken, N. J. Bottom-dump bucket. No. 952,894; Mar. 22; Sp. p. 4973; Gaz. vol. 152; p. 895.
Focht, Henry. (See Kissinger, Amos, assignor.)
Fodrea, William L., Noblesville, Ind. Power-transmission gearing. No. 948,694; Feb. 8; Sp. p. 1933; Gaz. vol. 151; p. 332.
Foell, Charles A., Rockwell, Iowa. Tongue-truck. No. 960,082; May 31; Sp. p. 7943; Gaz. vol. 154; p. 1334.
Foell, Otto, and M. Harris, assignors, by mesne assignments, to Nernst Lamp Company, Pittsburg, Pa. Nernst-lamp body. No. 975,126; Nov. 8; Sp. p. 2384; Gaz. vol. 160; p. 386.
Foell, Otto, A. Kusebauch, and R. Neckerman, assignors, by mesne assignments, to Nernst Lamp Company, Pittsburg, Pa. Heater and glower renewal for second-class-conductor lamps. No. 979,455; Dec. 27; Sp. p. 4397; Gaz. vol. 161; p. 778.
Foerster, Emanuel, St. Paul, Minn. Spring-support for wagon-tongues. No. 963,704; July 5; Sp. p. 1486; Gaz. vol. 156; p. 231.
Foerster, George E. (See Druzbach, Theodor, assignor.)
Foersterling, Hans, and H. Philipp, Perth Amboy, N. J., assignors to The Roessler & Hasslacher Chemical Co., New York, N. Y. Composition of matter for and method of generating hydrogen. No. 977,442; Dec. 6; Sp. p. 28; Gaz. vol. 161; p. 8.
Fogal, John E. W., A. M. Crichton, and A. C. Mowry, assignors to Quincy Elevator Gate Company, Quincy, Ill. Fire-alarm. No. 972,840; Oct. 18; Sp. p. 2889; Gaz. vol. 159; p. 514.
Fogarty, Matthew J., Cleveland, Ohio. Sash-fastener. No. 952,516; Mar. 22; Sp. p. 4155; Gaz. vol. 152; p. 764.
Fogarty, Michael H., assignor of one-third to F. L. Foster, Utica, N. Y. Presser-foot attachment. No. 945,384; Jan. 4; Sp. p. 823; Gaz. vol. 150; p. 128.
Fogelmark, Carl J., Sr., Excelsior, Minn. Bailing mechanism. No. 960,221; May 31; Sp. p. 8201; Gaz. vol. 154; p. 1381.
Fogelquist, Alexander E., Minneapolis, Minn. Ventilated receptacle for cooking utensils. No. 961,291; June 14; Sp. p. 2144; Gaz. vol. 155; p. 384.
Fogelsong Machine Company, The. (See Collett, John C., assignor.)
Fogg, Charles E., Kennett Square, Pa. Internal-combustion engine. No. 973,268; Oct. 18; Sp. p. 3880; Gaz. vol. 159; p. 663.
Fogg, Charles F., assignor of one-half to G. M. Orton, New York, N. Y. Automatically-closing file-case. No. 969,262; Sept. 6; Sp. p. 243; Gaz. vol. 158; p. 39.
Fogg, James R., assignor to The American Road Machine Company, Kennett Square, Pa. Screen. No. 967,358; Aug. 16; Sp. p. 3253; Gaz. vol. 157; p. 564.
Fogg, Lester R., Darby, Pa. Guard for pipe-unions. No. 968,759; Aug. 30; Sp. p. 6248; Gaz. vol. 157; p. 1092.
Fogg, Percival M., Rupert, Idaho. Head-gate-controlling mechanism. No. 967,007; Aug. 9; Sp. p. 2529; Gaz. vol. 157; p. 416.
Fogle, William E., Bath, N. Y. Swing for osteopathic tables. No. 957,758; May 10; Sp. p. 2671; Gaz. vol. 154; p. 459.
Fogler, George L., Baltimore, Md. Explosive-engine. No. 975,406; Nov. 15; Sp. p. 2980; Gaz. vol. 160; p. 507.
Fogler, George L., Baltimore, Md., assignor to H. B. Bryson, Pittsburg, Pa. Air and gas mixer for explosive-engines. No. 954,507; Apr. 12; Sp. p. 1733; Gaz. vol. 153; p. 311.
Foglesong Machine Company, The. (See Collett and Rennie, assignors.)
Folb, David, New York, N. Y. Dental flask. No. 969,263; Sept. 6; Sp. p. 244; Gaz. vol. 158; p. 39.
Folberth, William, Cleveland, Ohio. Transmission-gearing. No. 953,992; Apr. 5; Sp. p. 618; Gaz. vol. 153; p. 110.
Folckemer, George C., Weston, W. Va. Spoon-holder. No. 975,683; Nov. 15; Sp. p. 3580; Gaz. vol. 160; p. 603.
Foley, Andrew J., Braintree, and T. Crowley, Athol, Mass. Shoe-vamp protective guard. No. 948,419; Feb. 8; Sp. p. 1346; Gaz. vol. 151; p. 241.
Foley-Gregory Engine Company. (See Gregory, Fred L., assignor.)
Foley, James F., Chicago, Ill. Machine for bundling or compressing broom-corn and the like. No. 958,866; May 24; Sp. p. 5349; Gaz. vol. 154; p. 898.
Foley, James F., Chicago, Ill. Wire-twisting machine. No. 960,162; May 31; Sp. p. 8084; Gaz. vol. 154; p. 1359.
Foley, Thomas F., Washington, D. C. Fastener for closures. No. 969,776; Sept. 13; Sp. p. 1359; Gaz. vol. 158; p. 239.
Folgeman, Morris, and A. Kraus, New York, N. Y. Folding go-cart. No. 955,783; Apr. 19; Sp. p. 4508; Gaz. vol. 153; p. 779.
Folger, Harry S., Chicago, Ill. Holder for rubber type. No. 963,365; July 5; Sp. p. 804; Gaz. vol. 156; p. 118.
Folger, Harry S., Chicago, Ill. Rubber type-base. No. 975,344; Nov. 8; Sp. p. 2847; Gaz. vol. 160; p. 460.
Folger, Thomas H. E., Corral, Idaho. Wind-motor. No. 961,766; June 21; Sp. p. 3159; Gaz. vol. 155; p. 567.
Folk, William H., Suffolk, Va. Hydroplane-boat. No. 966,000; Aug. 2; Sp. p. 336; Gaz. vol. 157; p. 54.
Foll, W. H. (See Wood, Montraville M., assignor.)
Follett, Charles M., Montgomery, Mich. Clothes-line support. No. 950,384; Feb. 22; Sp. p. 5501; Gaz. vol. 151; p. 963.
Follett, Edward P., Chicago, Ill. Shot-cartridge. No. 974,369; Nov. 1; Sp. p. 661; Gaz. vol. 160; p. 99.
Follman, John A., York, N. D. Mail-tying device. No. 963,130; July 5; Sp. p. 267; Gaz. vol. 156; p. 36.
Follman, John A., York, N. D. Mail-bag catcher. No. 963,131; July 5; Sp. p. 268; Gaz. vol. 156; p. 36.
Folsom, Charles R., South Bend, Ind. Wheel-fender. No. 968,239; Aug. 23; Sp. p. 5133; Gaz. vol. 157; p. 884.
Folsom, Frederick M., and E. E. Higgins, Minneapolis, Minn.; said Higgins assignor to said Folsom. Dust-pan. No. 978,724; Dec. 13; Sp. p. 2830; Gaz. vol. 161; p. 480.
Foltin, Frank, assignor of one-half to H. E. Detering, Houston, Tex. Plow. No. 953,325; Mar. 29; Sp. p. 5899; Gaz. vol. 152; p. 1065.
Folts, Frank E., Lincoln, Nebr. Chair. No. 964,012; July 12; Sp. p. 2181; Gaz. vol. 156; p. 357.
Folts, Jefferson H., Plymouth, Ill. Automatic mail distributer and collector. No. 968,460; Aug. 23; Sp. p. 5569; Gaz. vol. 157; p. 961.
Foltz, Henry, Sharon, Pa. Rail-joint. No. 953,660; Mar. 29; Sp. p. 6626; Gaz. vol. 152; p. 1182.
Fonda, Lillie L., Troy, N. Y. Clothes-holder. No. 950,320; Feb. 22; Sp. p. 5385; Gaz. vol. 151; p. 945.
Fonda, Shepherd T., Schenectady, N. Y., assignor to General Electric Company. Machine for cutting turbine buckets or vanes. No. 973,025; Oct. 18; Sp. p. 3352; Gaz. vol. 159; p. 580.
Fondren, John W. (See Hollenbeck, Jacob P., assignor.)
Fongeallaz, Eugene, Norwood, assignor of fifty-one one-hundredths to E. C. Wright, G. R. Underwood, G. Tenney, E. N. Waters, and C. P. Fenton, Boston, Mass. Sectional bolt. No. 948,559; Feb. 8; Sp. p. 1647; Gaz. vol. 151; p. 287.
Fonner, Okey, Terra Alta, W. Va. Holdfast device. No. 973,269; Oct. 18; Sp. p. 3881; Gaz. vol. 159; p. 664.
Fontaine, Robert A., Martinsville, assignor of one-half to L. W. Anderson, Rockymount, Va. Automatic train-pipe coupling. No. 945,158; Jan. 4; Sp. p. 305; Gaz. vol. 150; p. 52.
Foorman, George W., Cressona, Pa. Auger-handle. No. 945,509; Jan. 4; Sp. p. 1090; Gaz. vol. 150; p. 168.
Foote, Albert E., Berlin, Germany. Stereoscope. No. 959,331; May 24; Sp. p. 6303; Gaz. vol. 154; p. 1054.
Foote, Charles E. and C. T., assignors to The Foote Manufacturing Company, Nunda, N. Y. Mixing-machine. No. 978,011; Dec. 6; Sp. p. 1266; Gaz. vol. 161; p. 203.
Foote, Chester T. (See Foote, Charles E. and C. T.)
Foote, Chester T., assignor to Foote Manufacturing Company, Nunda, N. Y. Mixing-machine. No. 975,847; Nov. 15; Sp. p. 3900; Gaz. vol. 160; p. 658.
Foote, Commodore C. and H. W., Memphis, Tenn. Burner. No. 948,009; Feb. 1; Sp. p. 473; Gaz. vol. 151; p. 77.
Foote, Harry W., New Haven, Conn., and E. K. Smith, Morristown, N. J. Moistening tobacco. No. 949,701; Feb. 15; Sp. p. 3994; Gaz. vol. 151; p. 694.
Foote, Henry W. (See Foote, Commodore C. and H. W.)
Foote, James H., Cincinnati, Ohio. Weather-strip. No. 971,001; Sept. 20; Sp. p. 3952; Gaz. vol. 158; p. 676.
Foote, Jeff J., Atlanta, Ga. Hat box or carrier. No. 969,842; Aug. 30; Sp. p. 6414; Gaz. vol. 157; p. 1118.
Foote Manufacturing Company, The. (See Foote, Charles E. and C. T., assignors.)
Foote Manufacturing Company. (See Foote, Chester T., assignor.)
Foote, Theodore M., Allston, Mass. Printing-telegraph. No. 962,082; June 21; Sp. p. 3848; Gaz. vol. 155; p. 673.
Foote, Theodore M., Allston, Mass. Indicating and recording mechanism. No. 974,562; Nov. 1; Sp. p. 1129; Gaz. vol. 160; p. 170.

Alphabetical list of patentees—Continued.

Forbes, Byron. (See Blomskog, Carl V., assignor.)
Forbes, Charles S., assignor to High Speed Ring Company, Boston, Mass. Spinning-ring. No. 957,759; May 10; Sp. p. 2673; Gaz. vol. 154; p. 459.
Forbes, Dudley J., assignor to The Hydraulic Gravity Separator Co., Portland, Oreg. Placer-separator. No. 975,684; Nov. 15; Sp. p. 3581; Gaz. vol. 160; p. 603.
Forbes, Henry, Southampton, England. Valve-gear. No. 953,993; Apr. 5; Sp. p. 620; Gaz. vol. 153; p. 110.
Forbes, James E., Kopple, and B. A. Darr, McKees Rocks, Pa. Hot-water bandage. No. 970,907; Sept. 20; Sp. p. 3777; Gaz. vol. 158; p. 645.
Forbes, John S., Philadelphia, Pa. Apparatus for heating water, milk, and other liquids for sterilizing or other purposes. No. 973,270; Oct. 18; Sp. p. 3883; Gaz. vol. 159; p. 664.
Forbes, Orlando. (See Williams and Forbes.)
Forbes, Oswald V. (See Roberts, William T. B., assignor.)
Forbes, Oswald V. (See Woolston, John T., assignor.)
Forbes, Robert A., Anderson, Ind. Computing-scale. No. 962,332; June 21; Sp. p. 4391; Gaz. vol. 155; p. 758.
Forbes, Thomas C., assignor to Los Angeles Rotary Gas Engine Company, Los Angeles, Cal. Muffler. No. 960,530; June 7; Sp. p. 594; Gaz. vol. 155; p. 96.
Forbes, William Y., and W. H. Rothwell, Huyton, Liverpool, England. Type-writing machine. No. 961,597; June 14; Sp. p. 2811; Gaz. vol. 155; p. 486.
Forbes, William Y., and W. H. Rothwell, Huyton, Liverpool, England. Type-writing machine. No. 961,598; June 14; Sp. p. 2812; Gaz. vol. 155; p. 486.
Forbes, William Y., and W. H. Rothwell, Liverpool, England. Type-writing machine. No. 968,042; Aug. 23; Sp. p. 4680; Gaz. vol. 157; p. 818.
Forbes, William Y., and W. H. Rothwell, Liverpool, England. Type-writing machine. No. 971,032; Sept. 27; Sp. p. 4035; Gaz. vol. 158; p. 714.
Forbess, George M., Longmont, Colo. Self-loading wagon. No. 946,028; Jan. 11; Sp. p. 2257; Gaz. vol. 150; p. 375.
Force, Horace W., Newburgh, N. Y. Carrier for stereopticons. No. 946,501; Jan. 11; Sp. p. 3359; Gaz. vol. 150; p. 540.
Force, Naomi, New York, N. Y. Feather holder and support. No. 951,946; Mar. 15; Sp. p. 3023; Gaz. vol. 152; p. 547.
Forchheimer, David S., White Plains, N. Y. Display-case. No. 957,461; May 10; Sp. p. 2069; Gaz. vol. 154; p. 359.
Ford, Arthur W., Quincy, Mass. Column. No. 969,097; Aug. 30; Sp. p. 6924; Gaz. vol. 157; p. 1206.
Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 949,225; Feb. 15; Sp. p. 3016; Gaz. vol. 151; p. 536.
Ford, Bruce, Philadelphia, Pa. Storage-battery plate. No. 977,443; Dec. 6; Sp. p. 29; Gaz. vol. 161; p. 8.
Ford, Charles R., *et al.* (See Lutz, Herbert, assignor.)
Ford, Edward T., and F. F. Wassam, Pikeville, Ohio. Anti-rail-creeper. No. 956,327; Apr. 26; Sp. p. 5732; Gaz. vol. 153; p. 998.
Ford, Edwin H., Hartford City, Ind. Top for meter-boxes. No. 974,650; Nov. 1; Sp. p. 1305; Gaz. vol. 160; p. 201.
Ford, Edwin H., Hartford City, Ind. Means for setting meters. No. 974,651; Nov. 1; Sp. p. 1307; Gaz. vol. 160; p. 202.
Ford, George H., *et al.* (See Hadley, Benjamin, assignor.)
Ford, George H., Niagara Falls, N. Y. Stone-gatherer. No. 956,575; May 3; Sp. p. 150; Gaz. vol. 154; p. 26.
Ford, George R., Hartford, assignor to E. C. Loomis, Windsor, Conn. Display-stand. (Reissue.) No. 13,098; Mar. 29; Sp. p. 6674; Gaz. vol. 152; p. 1188.
Ford, Hannibal C. (See Briggs and Ford.)
Ford, Hannibal C., Syracuse, N. Y. Compasses. No. 964,962; July 19; Sp. p. 4269; Gaz. vol. 156; p. 713.
Ford, Hannibal C., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 945,159; Jan. 4; Sp. p. 308; Gaz. vol. 150; p. 53.
Ford, Hannibal C., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 946,797; Jan. 18; Sp. p. 3993; Gaz. vol. 150; p. 664.
Ford, John B., Jeffersontown, Ky. Invalid-bed. No. 963,538; July 5; Sp. p. 1156; Gaz. vol. 156; p. 176.
Ford, John C., assignor of one-half to J. De Jong, Keokuk, Iowa. Measuring-faucet. No. 949,890; Feb. 22; Sp. p. 4451; Gaz. vol. 151; p. 795.
Ford, Joseph, Dunedin, New Zealand. Convertible perambulator. No. 957,874; May 17; Sp. p. 2917; Gaz. vol. 154; p. 528.
Ford, Mabel L., Pequot, Minn. Ribbon-holding device. No. 979,456; Dec. 27; Sp. p. 4399; Gaz. vol. 161; p. 778.
Ford and Mimmack. (See Mimmack, Robert B., assignor.)
Ford, Norman D., Ansley, Nebr. Brooder. No. 973,420; Oct. 18; Sp. p. 4207; Gaz. vol. 159; p. 716.
Ford, Otho H., Kansas City, Mo. Wrench attachment. No. 971,033; Sept. 27; Sp. p. 4036; Gaz. vol. 158; p. 715.
Ford, Otice H. (See Mixon and Ford.)
Ford, Patrick J. (See Simmons and Ford.)
Ford, Raymond S., assignor, by mesne assignments, to L. F. Bates, Cuba, N. Y. Fastener for roofing material. No. 980,089; Dec. 27; Sp. p. 5782; Gaz. vol. 161; p. 991.
Ford, Solomon. (See Seddon, George F., assignor.)
Ford, Thomas J., *et al.* (See Hadley, Benjamin, assignor.)
Ford, Thomas P., New York, N. Y. Pressure-reducing valve. No. 971,982; Oct. 4; Sp. p. 1047; Gaz. vol. 159; p. 175.
Ford, Tullius E., Frankford, Pa. Lineograph. No. 950,846; Mar. 1; Sp. p. 821; Gaz. vol. 152; p. 131.
Forder, Samuel W., *et al.* (See Chandeysson, Pierre I., assignor.)
Forder, W. C., *et al.* (See Chandeysson, Pierre I., assignor.)
Fordice, Oscar, Los Angeles, Cal. Hydrocarbon-burner. No. 958,999; May 24; Sp. p. 5617; Gaz. vol. 154; p. 943.
Fordyce, Edgar W., Anniston, Ala. Track-gage. No. 951,068; Mar. 1; Sp. p. 1225; Gaz. vol. 152; p. 201.
Fordyce, Edmond A., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 960,531; June 7; Sp. p. 595; Gaz. vol. 155; p. 97.
Fordyce, Edmond A., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 968,141; Aug. 23; Sp. p. 4900; Gaz. vol. 157; p. 850.
Foreman, David H., Denver, Colo., assignor of one-third to F. H. Shepard, New Rochelle, N. Y., and two-thirds to A. T. Herr, Denver, Colo. Railway-rail anchor. No. 954,409; Apr. 5; Sp. p. 1507; Gaz. vol. 153; p. 250.
Foreman, David J. (See Humbarger and Foreman.)
Foreman, Ira, and J. L. Thornton, Los Angeles, Cal. Machine for forming artificial pressed fuel. No. 949,176; Feb. 15; Sp. p. 2931; Gaz. vol. 151; p. 519.
Forest, Albert, Deer River, assignor of one-fourth to National Iron Company and one-half to J. P. Vincent, Duluth, Minn. Derrick. No. 948,851; Feb. 8; Sp. p. 2268; Gaz. vol. 151; p. 385
Forest Land & Mill Co. (See Roberts, Charles W., assignor.)
Forg, Peter, Somerville, Mass. Lamp-fixture. No. 974,253; Nov. 1; Sp. p. 381; Gaz. vol. 160; p. 56.
Forged Steel Wheel Company. (See Christianson, Andrew, assignor.)
Forgerson, Charles, Kansas City, Mo. Loose-leaf-book device. No. 959,849; May 31; Sp. p. 7395; Gaz. vol. 154; p. 1252.
Forget, William, Uxbridge, Mass. Thread-guide support for spinning-machines. No. 951,310; Mar. 8; Sp. p. 1723; Gaz. vol. 152; p. 304.
Forgie, James, *et al.* (See Vandevort, Frank F., assignor.)
Forgó, Stephan, New York, N. Y. Process and apparatus for making glassware. No. 958,613; May 17; Sp. p. 4782; Gaz. vol. 154; p. 785.
Forgrove Machinery Company, The. (See Grover, Frederick, assignor.)
Forgue, Bengman W., Chicago, Ill. Doughnut-fryer. No. 955,507; Apr. 19; Sp. p. 3902; Gaz. vol. 153; p. 685.
Forgy, Herbert E., Shamrock, Tex. Door-display rack. No. 965,099; July 19; Sp. p. 4546; Gaz. vol. 156; p. 758.
Forman, Paris R., assignor to The Burdett-Rowntree Manufacturing Company, Chicago, Ill. Safety appliance for motors. No. 980,090; Dec. 27; Sp. p. 5784; Gaz. vol. 161; p. 991.
Formentos, Vincente L., Manila, Philippine Islands. Refrigerator. No. 972,074; Oct. 4; Sp. p. 1221; Gaz. vol. 159; p. 206.
Fornaca, Guido, Turin, Italy, assignor, by mesne assignments, to F. I. A. T., Poughkeepsie, N. Y. Oil-feeding mechanism. No. 964,637; July 19; Sp. p. 3505; Gaz. vol. 156; p. 599.
Fornaca, Guido, Turin, Italy, assignor, by mesne assignments, to F. I. A. T., Poughkeepsie, N. Y. Vehicle-frame suspension. No. 979,278; Dec. 20; Sp. p. 4054; Gaz. vol. 161; p. 697.
Forney, John A., Reading, Pa. Vacuum-cleaner. No. 975,028; Nov. 8; Sp. p. 2167; Gaz. vol. 160; p. 353.
Fornoff, Henry G., and H. C. Klages, St. Louis, Mo. Loose-leaf binder. No. 973,932; Oct. 25; Sp. p. 5280; Gaz. vol. 159; p. 917.
Forrer, Joseph D., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Coil for dynamo-electric machines. No. 957,876; May 17; Sp. p. 2921; Gaz. vol. 154; p. 529.
Forrer, Joseph D., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Armature-winding coil for dynamo-electric machines. No. 957,877; May 17; Sp. p. 2922; Gaz. vol. 154; p. 529.
Forrest, James, assignor to Allis-Chalmers Company, Milwaukee, Wis. Bolter. No. 965,447; July 26; Sp. p. 5288; Gaz. vol. 156; p. 904.
Forrest, John W., Blytheville, Ark. Saw set and jointer. No. 972,354; Oct. 11; Sp. p. 1820; Gaz. vol. 159; p. 319.
Forrester, Peter C., and G. A. Browne, Tacoma, Wash. Pulverizer. No. 955,497; Apr. 19; Sp. p. 3887; Gaz. vol. 153; p. 683.
Forrey, George J., assignor of one-half to S. L. Diven, Carlisle, Pa. Nut-lock. No. 955,784; Apr. 19; Sp. p. 4513; Gaz. vol. 153; p. 779.
Forsberg, Erik A., Fleminggaten-Stockholm, assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal cream-separator. No. 964,505; July 19; Sp. p. 3202; Gaz. vol. 156; p. 554.

Alphabetical list of patentees—Continued.

Forsberg, Erik A., and B. Ljungström, Stockholm, Sweden. Gas-turbine. No. 970,204; Sept. 13; Sp. p. 2277; Gaz. vol. 158; p. 385.
Forschler, Philip. (See Jacobs and Forschler.)
Forschner, Richard H., New York, N. Y. Scale. No. 972,443; Oct. 11; Sp. p. 1998; Gaz. vol. 159; p. 351.
Forshee, James H., assignor of one-half to E. M. Baker, Marianna, Ark. Wire-stretcher. No. 956,328; Apr. 26; Sp. p. 5734; Gaz. vol. 153; p. 998.
Forslund, Hugo W., assignor to J. W. Reedy Elevator Manufacturing Co., Chicago, Ill. Mechanical controller. No. 954,508; Apr. 12; Sp. p. 1735; Gaz. vol. 153; p. 312.
Forslund, Hugo W., assignor to J. W. Reedy Elevator Manufacturing Co., Chicago, Ill. Motor-saddle. No. 963,755; July 12; Sp. p. 1610; Gaz. vol. 156; p. 271.
Forst, Moritz, assignor of one-third to M. Beilech and one-third to M. Bern, New York, N. Y. Combined fan and whip. No. 951,271; Mar. 8; Sp. p. 1628; Gaz. vol. 152; p. 291.
Forster, Andrew. (See Carnt and Forster.)
Forster, Carl C., Fall River, Mass. Dobby. No. 947,574; Jan. 25; Sp. p. 5740; Gaz. vol. 150; p. 953.
Forster, Carl R., Evanston, Ill. Light-projecting device. No. 961,114; June 14; Sp. p. 1765; Gaz. vol. 155; p. 321.
Forster, Desider, and P. Finitzer, Budapest, Austria-Hungary. Fermentation for use in manufacture of yeast and spirit. No. 978,282; Dec. 13; Sp. p. 1880; Gaz. vol. 161; p. 330.
Forster, Ferdinand E., New York, N. Y. Shoal-water indicator. No. 966,817; Aug. 9; Sp. p. 2146; Gaz. vol. 157; p. 354.
Forster, Frank T., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 973,645; Oct. 25; Sp. p. 4695; Gaz. vol. 159; p. 816.
Forster, John C., Pittsburg, Pa. Washing-machine. No. 970,205; Sept. 13; Sp. p. 2280; Gaz. vol. 158; p. 385.
Forster, John C., Pittsburg, Pa. Household-tool. No. 970,206; Sept. 13; Sp. p. 2282; Gaz. vol. 158; p. 386.
Forster Manufacturing Company. (See Hall, Albert H., assignor.)
Forster, Thomas W., assignor to Buhl Stamping Company, Detroit, Mich. Milk-can. No. 945,927; Jan. 11; Sp. p. 2057; Gaz. vol. 150; p. 342.
Forster, Zachary P. (See Schrader and Forster.)
Forstner, Adolphus H., Portland, Oreg. Oil-burner. No. 974,652; Nov. 1; Sp. p. 1309; Gaz. vol. 160; p. 202.
Forsyth, Clayton E., and F. S. Ellett, assignors to Eclipse Machine Company, Elmira, N. Y. Back-pedaling coaster-brake. No. 953,688; Apr. 5; Sp. p. 19; Gaz. vol. 153; p. 6.
Forsyth, George H., Chicago, Ill. Metal window-sash. No. 945,225; Jan. 4; Sp. p. 452; Gaz. vol. 150; p. 75.
Forsyth, George H., Chicago, Ill. Strain-resisting mechanism. No. 945,226; Jan. 4; Sp. p. 457; Gaz. vol. 150; p. 75.
Forsyth, George H., Chicago, Ill. Ventilator. No. 945,227; Jan. 4; Sp. p. 460; Gaz. vol. 150; p. 76.
Forsyth, James A., Atlanta, Ga. Steam-boiler furnace. No. 951,069; Mar. 1; Sp. p. 1227; Gaz. vol. 152; p. 201.
Forsyth, James P., *et al.* (See Beahm, Peter, assignor.)
Forsyth, William D., Youngstown, Ohio, assignor, by mesne assignments, to A. M. Neeper, Pittsburg, Pa. Metallic railway-tie. No. 977,179; Nov. 29; Sp. p. 6865; Gaz. vol. 160; p. 1166.
Forsythe, Newton, Hanna, Ind. Train-order deliverer. No. 966,392; Aug. 2; Sp. p. 1129; Gaz. vol. 157; p. 182.
Fort Dearborn Manufacturing Company. (See Benson, Andrew, assignor.)
Fort Dearborn Manufacturing Company. (See Rhode, Frank, assignor.)
Fort, Foster W., and H. T. Cruger, Waco, Tex. Nut-cracker. No. 964,414; July 12; Sp. p. 2980; Gaz. vol. 156; p. 492.
Fort Pitt Bedding Company. (See Sleeth, Montgomery, assignor.)
Fort Pitt Bedding Company. (See Weppner, William F., assignor.)
Fort Pitt Supply Company. (See Young, James M., assignor.)
Fortas, Joseph, and J. R. Jackson, Memphis, Tenn. Electric-light button. No. 967,508; Aug. 16; Sp. p. 3585; Gaz. vol. 157; p. 615.
Fortescue, Albert J., Arncliffe, near Sydney, New South Wales, Australia. Metallic tire. No. 974,046; Oct. 25; Sp. p. 5519; Gaz. vol. 159; p. 957.
Forth, Charles, Winthrop, Mass. Pipe-coupling. No. 950,665; Mar. 1; Sp. p. 434; Gaz. vol. 152; p. 70.
Forth, Charles, Boston, Mass. Heating device. No. 950,666; Mar. 1; Sp. p. 436; Gaz. vol. 152; p. 71.
Forth, John F., Syracuse, N. Y. Optical testing instrument. No. 947,153; Jan. 18; Sp. p. 4736; Gaz. vol. 150; p. 780.
Fortier, Charles L., Milwaukee, Wis., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 956,067; Apr. 26; Sp. p. 5149; Gaz. vol. 153; p. 908.
Fortin, Benjamin P., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 975,610; Nov. 15; Sp. p. 3411; Gaz. vol. 160; p. 579.
Fortin, Philip L., Clyde, Kans. Manure-spreader for wagons. No. 971,836; Oct. 4; Sp. p. 676; Gaz. vol. 159; p. 119.
Fortin, Philip L., Clyde, Kans. Manure-spreader for wagons. No. 971,837; Oct. 4; Sp. p. 681; Gaz. vol. 159; p. 120.
Fortuna-Werke Albert Hirth. (See Keats, Socrates, assignor.)
Fortune, John R. (See Haigh and Fortune.)
Fortune, John R. (See Wells and Fortune.)
Fortune, John R., Detroit, Mich. Furnace. No. 979,661; Dec. 27; Sp. p. 4845; Gaz. vol. 161; p. 850.
Fortune, John R., and H. S. Wells, assignors to Murphy Iron Works, Detroit, Mich. Actuating mechanism for automatic stokers. No. 951,474; Mar. 8; Sp. p. 2063; Gaz. vol. 152; p. 358.
Fortuny, Mariano, Paris, France. Arc-lamp. No. 948,971; Feb. 8; Sp. p. 2497; Gaz. vol. 151; p. 425.
Forward, Ross, Cleveland, Ohio. Fender for motor-cars. No. 952,243; Mar. 15; Sp. p. 3587; Gaz. vol. 152; p. 645.
Forward, Walter L., assignor to Byron Jackson Iron Works, West Berkeley, Cal. High-pressure turbine-pump. No. 963,539; July 5; Sp. p. 1157; Gaz. vol. 156; p. 176.
Forward, Walter L., assignor to Byron Jackson Iron Works, West Berkeley, Cal. High-pressure turbine-pump. No. 964,963; July 19; Sp. p. 4271; Gaz. vol. 156; p. 713.
Forward, William. (See Estes and Forward.)
Forwood, John B., Forest Hill, Md. Cattle-stanchion. No. 977,289; Nov. 29; Sp. p. 7075; Gaz. vol. 160; p. 1203.
Fosbroke, Gerald E., St. Paul, Minn. Display apparatus. No. 976,160; Nov. 22; Sp. p. 4555; Gaz. vol. 160; p. 788.
Fosgate, Daniel O., Chicago, Ill. Truss pad or cushion. No. 947,551; Jan. 25; Sp. p. 5692; Gaz. vol. 150; p. 945.
Fosler, Ira G., Chicago, Ill. Automatic pressure-controller for water and other pipes. No. 974,563; Nov. 1; Sp. p. 1131; Gaz. vol. 160; p. 170.
Foss, Clarence M., assignor to The Seagrave Company, Columbus, Ohio. Clutch-brake. No. 973,187; Oct. 18; Sp. p. 3730; Gaz. vol. 159; p. 637.
Foss, George F., Los Angeles, Cal. Cap for valve-stems for pneumatic tires. No. 958,867; May 24; Sp. p. 5354; Gaz. vol. 154; p. 899.
Fosselman, Otto C., Chicago, Ill. Counterbalanced stairway. No. 945,029; Jan. 4; Sp. p. 36; Gaz. vol. 150; p. 9.
Foster, Abraham G. W., Newman, Ga. Meat-tenderer. No. 949,762; Feb. 22; Sp. p. 4143; Gaz. vol. 151; p. 749.
Foster, Addie M. (See Foster, Jennie C. and A. M.)
Foster, Albert D., Chicago, Ill. Applicator. No. 972,686; Oct. 11; Sp. p. 2554; Gaz. vol. 159; p. 435.
Foster, Andrew J., Northbend, Wash. Ironing-table. No. 976,997; Nov. 29; Sp. p. 6461; Gaz. vol. 160; p. 1102.
Foster Brothers Manufacturing Company, The. (See Frank and Taylor, assignors.)
Foster, Charles A., Portland, Oreg. Corrugated sectional nestable culvert. No. 979,146; Dec. 20; Sp. p. 3770; Gaz. vol. 161; p. 652.
Foster, Charles B., and W. W. Glidden, Oak Park, Ill. Vacuum-cleaner. No. 959,729; May 31; Sp. p. 7132; Gaz. vol. 154; p. 1211.
Foster, Charles B., and W. W. Glidden, Oak Park, Ill. Vacuum dust-remover. No. 977,380; Nov. 29; Sp. p. 7276; Gaz. vol. 160; p. 1235.
Foster, Charles E., Rochester, N. Y. Electrical measuring instrument. No. 959,497; May 31; Sp. p. 6656; Gaz. vol. 154; p. 1134.
Foster, Charles E., Washington, D. C., assignor to Smith Premier Typewriter Company, Syracuse, N. Y. Duplicating device for type-writers. No. 964,856; July 19; Sp. p. 4059; Gaz. vol. 156; p. 676.
Foster, Charles W., New Haven, Conn. Internal-combustion engine. No. 972,841; Oct. 18; Sp. p. 2894; Gaz. vol. 159; p. 514.
Foster, Clarence B., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 974,480; Nov. 1; Sp. p. 928; Gaz. vol. 160; p. 138.
Foster, Ephraim J., Steubenville, Ohio, and F. H. Grafton, Wheeling, W. Va., assignors of one-fourth to J. M. Foster, Steubenville, Ohio, and one-fourth to W. S. Grafton, Wheeling, W. Va. Combined hay rake and shocker. No. 978,725; Dec. 13; Sp. p. 2831; Gaz. vol. 161; p. 481.
Foster, Ernest H., New York, N. Y. Steam-superheater. No. 963,732; July 5; Sp. p. 1563; Gaz. vol. 156; p. 241.
Foster, Frank L. (See Fogarty, Michael H., assignor.)
Foster, Freling C., Chicago, Ill. Wheel. No. 975,407; Nov. 15; Sp. p. 2981; Gaz. vol. 160; p. 507.
Foster, George, East Auburn, Cal. Ironing-table. No. 970,207; Sept. 13; Sp. p. 2284; Gaz. vol. 158; p. 386.
Foster, George M., Bryson, Tex. Fender for cultivators. No. 972,842; Oct. 18; Sp. p. 2896; Gaz. vol. 159; p. 515.
Foster, Jackson W., assignor of one-half to A. Endel and one-fourth to W. C. Warrington, Jacksonville, Fla. Pressure-relief valve. No. 960,302; June 7; Sp. p. 124; Gaz. vol. 155; p. 24.
Foster, Jackson W., and A. A. Stoddard, Jacksonville, Fla. Belt. No. 962,563; June 28; Sp. p. 4929; Gaz. vol. 155; p. 863.

Alphabetical list of patentees—Continued.

Foster, James E., assignor of one-half to E. E. Vorhies, Lore City, Ohio. Door for mining-cars. No. 956,329; Apr. 26; Sp. p. 5735; Gaz. vol. 153; p. 998.

Foster, James M., *et al.* (See Foster and Grafton, assignors.)

Foster, Jennie C. and A. M., Santa Barbara, Cal. Shoelace clamp. No. 947,898; Feb. 1; Sp. p. 259; Gaz. vol. 151; p. 42.

Foster, John F., Argentine, Kans. Roller-bearing. No. 962,333; June 21; Sp. p. 4392; Gaz. vol. 155; p. 758.

Foster, Linwood E., Hoquiam, Wash. Sister-hook. No. 970,033; Sept. 13; Sp. p. 1932; Gaz. vol. 158; p. 327.

Foster Machine Company. (See McKean, John O., assignor.)

Foster, Rolon E., and P. W. Pratt, assignors to Foster Rubber Company, Boston, Mass. Elastic heel. No. 973,026; Oct. 18; Sp. p. 3360; Gaz. vol. 159; p. 581.

Foster Rubber Company. (See Foster and Pratt, assignors.)

Foster, Samuel P., assignor of one-half to C. A. Bedell, East Chattanooga, Tenn. Train-pipe coupling. No. 966,393; Aug. 2; Sp. p. 1130; Gaz. vol. 157; p. 182.

Foster, William B., Norwood, assignor of one-third to M. J. Klaw and one-third to A. H. Duwelius, Cincinnati, Ohio. Pantographic pyrograph. No. 978,012; Dec. 6; Sp. p. 1270; Gaz. vol. 161; p. 204.

Foster, William F. C., Wawanesa, Manitoba, Canada. Numbering-machine. No. 955,785; Apr. 19; Sp. p. 4514; Gaz. vol. 153; p. 780.

Foster, William J., Schenectady, N. Y., assignor to General Electric Company. Means for starting alternating-current motors. No. 955,455; Apr. 19; Sp. p. 3796; Gaz. vol. 153; p. 667.

Foulke, John T., Richmond, Ind. Swivel-action cultivator attachment. No. 957,322; May 10; Sp. p. 1789; Gaz. vol. 154; p. 312.

Foulke, Joseph S., and T. J. Flavin, Gunnison, Colo. Dandelion-killer. No. 951,760; Mar. 8; Sp. p. 2634; Gaz. vol. 152; p. 455.

Fountain, John, Jr., Elizabeth, N. J. Combination pull-sleeve, pipe or cable support or connector. No. 954,081; Apr. 5; Sp. p. 800; Gaz. vol. 153; p. 139.

Fountain, John, Jr., Elizabeth, N. J. Universal floor-box for the distribution of electric wires. No. 974,370; Nov. 1; Sp. p. 663; Gaz. vol. 160; p. 99.

Fountain, Robert, Banning, Cal. Fruit-gatherer. No. 959,332; May 24; Sp. p. 6304; Gaz. vol. 154; p. 1054.

Four Utensil Manufacturing Company. (See Sylvester, William, assignor.)

Fourman, Colonel E., Columbus, Ohio. Child's vehicle. No. 958,914; May 24; Sp. p. 5462; Gaz. vol. 154; p. 915.

Fourneau, Ernest, Paris, France. Preparation of esters of oxyamino acids. No. 952,006; Mar. 15; Sp. p. 3143; Gaz. vol. 152; p. 566.

Fourneau, Ernest, Paris, France. Obtaining acidylic derivatives of esters of dimethylaminodimethyloxyacetic acid. No. 952,323; Mar. 15; Sp. p. 3752; Gaz. vol. 152; p. 672.

Fournia, John, assignor of one-half to F. R. Greene, Albany, N. Y. Draft-equalizer for locomotive front ends. No. 959,333; May 24; Sp. p. 6305; Gaz. vol. 154; p. 1054.

Fournia, John, assignor of one-half to F. R. Greene, Albany, N. Y. Fluid-pressure valve. No. 974,872; Nov. 8; Sp. p. 1800; Gaz. vol. 160; p. 299.

Fournia, John, assignor of one-half to F. R. Greene, Albany, N. Y. Device for heating feed-water. No. 976,794; Nov. 22; Sp. p. 5964; Gaz. vol. 160; p. 1007.

Fouts, Calvin C., Middletown, Ohio, assignor to The Arkansas Corrugated Metal Culvert Company, Little Rock, Ark. Gutter-bridge. No. 979,754; Dec. 27; Sp. p. 5059; Gaz. vol. 161; p. 881.

Fouts & Hunter Carriage Manufacturing Company. (See Hunter, William A., assignor.) (Reissue.)

Fouts, William P., and F. B. Hobbs, Cleveland, Ohio. Expansion-reamer. No. 961,115; June 14; Sp. p. 1769; Gaz. vol. 155; p. 321.

Fowden, Robert A., Philadelphia, Pa. Piston-packing. No. 976,563; Nov. 22; Sp. p. 5491; Gaz. vol. 160; p. 928.

Fowle, Charles L., assignor to Dowagiac Manufacturing Company, Dowagiac, Mich. Bearing. No. 962,629; June 28; Sp. p. 5059; Gaz. vol. 155; p. 884.

Fowle, John W., Wellesley, Mass. Safety thermal cut-out or switch. No. 946,597; Jan. 18; Sp. p. 3542; Gaz. vol. 150; p. 596.

Fowler, Albert C., St. Louis, Mo. Golf-club. No. 959,053; May 24; Sp. p. 5720; Gaz. vol. 154; p. 961.

Fowler, Alfred B., Central Falls, R. I., assignor of one-half to B. Phillips, Boston, Mass. Driving mechanism for motor-vehicles. No. 969,140; Aug. 30; Sp. p. 7020; Gaz. vol. 157; p. 1221.

Fowler, Alfred B., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Buffing-machine. No. 972,843; Oct. 18; Sp. p. 2897; Gaz. vol. 159; p. 515.

Fowler, Alfred B., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 976,450; Nov. 22; Sp. p. 5245; Gaz. vol. 160; p. 890.

Fowler Automobile Railway Equipment Company. (See Fowler, James B., assignor.)

Fowler, Benjamin F., assignor of five-eighths to E. W. Bingenheimer, Minneapolis, Minn. Lamp-burner. No. 964,904; July 19; Sp. p. 4162; Gaz. vol. 156; p. 693.

Fowler, Benjamin F., assignor, by mesne assignments, to C. E. Van Duzee, Minneapolis, Minn. Device for beating eggs and whipping cream. No. 966,738; Aug. 9; Sp. p. 1938; Gaz. vol. 157; p. 328.

Fowler, Charles E., Seattle, Wash. Scow. No. 962,706; June 28; Sp. p. 5220; Gaz. vol. 155; p. 911.

Fowler Concentrator Company, The. (See Fowler, George A., assignor.)

Fowler, Edward, assignor of one-sixth to O. T. Simmons, one-sixth to J. L. Simmons, and one-sixth to B. V. Kell, Cedar Grove, Ga. Disk plow. No. 952,895; Mar. 22; Sp. p. 4975; Gaz. vol. 152; p. 895.

Fowler, Edward M., Alexandria, Mo. Valve for drainage and irrigating systems. No. 961,292; June 14; Sp. p. 2147; Gaz. vol. 155; p. 385.

Fowler, Edwin, Kansas City, Mo., and H. E. Sadler, Sedan, Kans. Reclining-chair. No. 945,928; Jan. 11; Sp. p. 2058; Gaz. vol. 150; p. 342.

Fowler, Frank G., Altoona, Pa. Spring for car-vestibule diaphragms. No. 966,818; Aug. 9; Sp. p. 2147; Gaz. vol. 157; p. 354.

Fowler, Fred D., Glens Falls, assignor to International Paper Company, New York, N. Y. Screen for paper-stock. No. 973,493; Oct. 25; Sp. p. 4371; Gaz. vol. 159; p. 764.

Fowler, George A., Denver, Colo. Water or other fluid-heating apparatus. No. 955,393; Apr. 19; Sp. p. 3679; Gaz. vol. 153; p. 646.

Fowler, George A., Denver, Colo. Fluid-operated rotary-movement-reversing mechanism. No. 976,998; Nov. 29; Sp. p. 6462; Gaz. vol. 160; p. 1103.

Fowler, George A., assignor to The Fowler Concentrator Company, Denver, Colo. Reciprocating multiple-compartment concentrator. No. 955,329; Apr. 19; Sp. p. 3529; Gaz. vol. 153; p. 624.

Fowler, George W. (See Makean, De Witt O., assignor.)

Fowler, George W., and W. P. Siebenmorgen, Westfield, N. J. Speed-changing device for motors. No. 952,033; Mar. 15; Sp. p. 3199; Gaz. vol. 152; p. 575.

Fowler, Gilbert J., Urmston, near Manchester, England. Extracting lac dye. No. 954,949; Apr. 12; Sp. p. 2745; Gaz. vol. 153; p. 465.

Fowler, Gilbert J., Urmston, near Manchester, England. Obtaining pure shellac from stick-lac or the like. No. 975,224; Nov. 8; Sp. p. 2601; Gaz. vol. 160; p. 420.

Fowler, Herbert O., Buffalo, N. Y. Key-ring fob. No. 964,228; July 12; Sp. p. 2616; Gaz. vol. 156; p. 430.

Fowler, Jacob, New York, N. Y. Meat-hanger. No. 947,016; Jan. 18; Sp. p. 4491; Gaz. vol. 150; p. 739.

Fowler, James A., Glenallen, Mo. Table-fan. No. 956,068; Apr. 26; Sp. p. 5156; Gaz. vol. 153; p. 908.

Fowler, James B., Columbus, Ohio, assignor to Fowler Automobile Railway Equipment Company. Railway and car and appliances therefor. No. 961,293; June 14; Sp. p. 2148; Gaz. vol. 155; p. 385.

Fowler, John W., Scranton, Pa. Grate. No. 949,065; Feb. 15; Sp. p. 2711; Gaz. vol. 151; p. 482.

Fowler, Jonathan O. (See Dilg and Fowler.)

Fowler, Joseph C., assignor, by mesne assignments, to J. R. Preston, Chicago, Ill. Machine for casting and setting individual type. No. 958,738; May 24; Sp. p. 5029; Gaz. vol. 154; p. 852.

Fowler, Josiah, Cambridge, Mass. Street-sweeping machine. No. 959,000; May 24; Sp. p. 5619; Gaz. vol. 154; p. 943.

Fowler, Lewis D., assignor of one-third to A. D. Marble, Oklahoma, Okla. Collapsible shipping-box. No. 945,228; Jan. 4; Sp. p. 463; Gaz. vol. 150; p. 76.

Fowler, Paul L., Crockett, Cal. Clothes-rack. No. 949,066; Feb. 15; Sp. p. 2712; Gaz. vol. 151; p. 482.

Fowler, Robert H., T. Benstead, and A. Pepper, Leeds, England. Disk plow for steam cultivation. No. 954,950; Apr. 12; Sp. p. 2746; Gaz. vol. 153; p. 465.

Fowler, Roy E., and T. Tuckerman, Fremont, Ohio. Device for pointing and finishing cigars. No. 953,743; Apr. 5; Sp. p. 123; Gaz. vol. 153; p. 24.

Fowler, Samuel B., La Fayette, Ind. Spark-plug. No. 950,847; Mar. 1; Sp. p. 823; Gaz. vol. 152; p. 132.

Fowler, Samuel B., La Fayette, Ind. Telephone-exchange system. No. 959,498; May 31; Sp. p. 6658; Gaz. vol. 154; p. 1135.

Fowler, William, *et al.* (See Wolentarsky, Charles, assignor.)

Fowler, William, Canterbury, England. Cooking apparatus. No. 976,646; Nov. 22; Sp. p. 5658; Gaz. vol. 160; p. 957.

Fowler, William A., Salisbury, N. C. Dyeing-machine. No. 965,625; July 26; Sp. p. 5699; Gaz. vol. 156; p. 968.

Fowler, William E., Montreal, Quebec, Canada. Box-car. No. 962,425; June 28; Sp. p. 4611; Gaz. vol. 155; p. 814.

Fowler, William H., Flomaton, Ala. Line-check. No. 949,177; Feb. 15; Sp. p. 2933; Gaz. vol. 151; p. 520.

Fowler, William H., Flomaton, Ala. Line-check. No. 954,178; Apr. 5; Sp. p. 1021; Gaz. vol. 153; p. 173.

Fox, Anna B., administratrix. (See Fox, George H.)

Alphabetical list of patentees—Continued.

Fox, Charles, deceased; J. C. Eckert, administrator, Stamford, Conn. Carbureter. No. 964,409; July 12; Sp. p. 2971; Gaz. vol. 156; p. 490.
Fox, Charles, deceased; J. C. Eckert, administrator, Stamford, Conn. Heater for carbureters. No. 964,410; July 12; Sp. p. 2974; Gaz. vol. 156; p. 491.
Fox, Charles E., assignor of one-fourth to H. Sanders and one-fourth to O. Hast, St. Louis, Mo. Car-seal. No. 950,151; Feb. 22; Sp. p. 5030; Gaz. vol. 151; p. 885.
Fox, Charles H., Cincinnati, Ohio. Steam-boiler. No. 953,166; Mar. 29; Sp. p. 5566; Gaz. vol. 152; p. 1014.
Fox, G. W., *et al.* (See Fox, Levi W., assignor.)
Fox, George. (See Dreifuss, Max, assignor.)
Fox, George G., Kittanning, assignor of one-fourth to J. K. Johnston, Charleroi, Pa. Cooker. No. 956,802; May 3; Sp. p. 648; Gaz. vol. 154; p. 103.
Fox, George H., deceased, Bangor, Me.; A. B. Fox, administratrix. Machine for molding candy pipes and other articles. No. 978,726; Dec. 13; Sp. p. 2836; Gaz. vol. 161; p. 481.
Fox, George L., Albany, N. Y. Window-bar. No. 953,197; Mar. 29; Sp. p. 5636; Gaz. vol. 152; p. 1024.
Fox, Ivan, Media, assignor to Fox Optical Manufacturing Company, Philadelphia, Pa. Optometer. No. 971,499; Sept. 27; Sp. p. 4952; Gaz. vol. 158; p. 867.
Fox, Jason S., Honolulu, Hawaii. Medical eye-cup. No. 976,862; Nov. 29; Sp. p. 6124; Gaz. vol. 160; p. 1055.
Fox, Levi W., Norvell, assignor of one-third to C. E. West and one-third to G. W. Fox, Jackson county, Mich. Support for third rails. No. 966,001; Aug. 2; Sp. p. 337; Gaz. vol. 157; p. 54.
Fox Optical Manufacturing Company. (See Fox, Ivan, assignor.)
Fox, Otto, assignor to Natural Gas Regulator Company, Cleveland, Ohio. Water-heater. No. 965,100; July 19; Sp. p. 4547; Gaz. vol. 156; p. 758.
Fox, Richard M., Bluefield, W. Va., assignor of one-half to J. P. Hunt, Chatham, Va. Car-brake. No. 973,933; Oct. 25; Sp. p. 5284; Gaz. vol. 159; p. 917.
Fox, Richard M., assignor of one-fourth to R. M. Garrett, Bluefield, W. Va. Coal-loading device. No. 975,225; Nov. 8; Sp. p. 2602; Gaz. vol. 160; p. 420.
Fox, Rosalie A. W., assignor of one-half to E. J. Wylde, Seattle, Wash. Window-grille. No. 973,027; Oct. 18; Sp. p. 3361; Gaz. vol. 159; p. 581.
Fox, Warren C., Kansas City, Mo. Bit-holder. No. 972,179; Oct. 11; Sp. p. 1452; Gaz. vol. 159; p. 259.
Fox, William H., Lincoln, Nebr. Pad. No. 967,750; Aug. 16; Sp. p. 4070; Gaz. vol. 157; p. 696.
Fox, William R., Grand Rapids, Mich. Miter-cutting machine. No. 964,506; July 19; Sp. p. 3203; Gaz. vol. 156; p. 554.
Fox, William R., Grand Rapids, Mich. Manufacturing double type for type-writing machines. No. 966,188; Aug. 2; Sp. p. 745; Gaz. vol. 157; p. 117.
Fox, William R., Grand Rapids, Mich. Escapement mechanism for type-writers. No. 978,871; Dec. 20; Sp. p. 3111; Gaz. vol. 161; p. 552.
Foy, William, Sycamore, Ill. Combined cultivator and seeder. No. 965,702; July 26; Sp. p. 5856; Gaz. vol. 156; p. 995.
Fraas, M. J., *et al.* (See Hill, Rozier C., assignor.)
Frackelton, David S., Fenton, Mich. Playing-cards. No. 963,429; July 5; Sp. p. 934; Gaz. vol. 156; p. 139.
Frahlich, John, Arlington, Ky. Auger. No. 972,611; Oct. 11; Sp. p. 2403; Gaz. vol. 159; p. 410.
Frahm, Hermann, Hamburg, Germany. Means for preventing the rolling of ships. No. 968,927; Aug. 30; Sp. p. 6586; Gaz. vol. 157; p. 1147.
Frahm, Hermann, Hamburg, Germany. Means for damping the rolling motion of ships. No. 970,368; Sept. 13; Sp. p. 2605; Gaz. vol. 158; p. 440.
Frakes, Mattie F., Portland, Oreg. Device for holding pillow-shams. No. 978,148; Dec. 13; Sp. p. 1589; Gaz. vol. 161; p. 282.
Fraley, Robert M., Champaign, Ill. Lifting-jack. No. 964,905; July 19; Sp. p. 4164; Gaz. vol. 156; p. 693.
Frame, George W., Fairfield, Iowa. Neck-yoke. No. 956,634; May 3; Sp. p. 273; Gaz. vol. 154; p. 45.
Frame, Robert E. (See Rohling, John M., assignor.)
Frame, Robert E., assignor to American Car and Foundry Company, St. Louis, Mo. Car-ventilator. No. 954,509; Apr. 12; Sp. p. 1742; Gaz. vol. 153; p. 312.
Frampton, George M., Pendleton, Ind. Stallion-shield. No. 976,863; Nov. 29; Sp. p. 6125; Gaz. vol. 160; p. 1055.
Frampton, Reynolds C., Swissvale, Pa. Controlling apparatus for water-heaters. No. 973,647; Oct. 25; Sp. p. 4698; Gaz. vol. 159; p. 816.
Frampton, Reynolds C., assignor to Pittsburg Water Heater Company, Pittsburg, Pa. Heater. No. 961,434; June 14; Sp. p. 2453; Gaz. vol. 155; p. 432.
Frampton, Reynolds C., assignor to Pittsburg Water Heater Company, Allegheny, Pa. Instantaneous water-heater. No. 973,646; Oct. 25; Sp. p. 4697; Gaz. vol. 159; p. 816.
Frampton, Samuel S., and L. J. Bailey, Whittier, Cal. Drive-spear. No. 962,020; June 21; Sp. p. 3700; Gaz. vol. 155; p. 650.
Franberg, Otto W. (See Miner, Raymond C., assignor.)
Franc, Georges, Washington, D. C. Friction-clutch. No. 967,150; Aug. 9; Sp. p. 2840; Gaz. vol. 157; p. 466.
Francart, Fernand M., Arnold, G. C. Debay, J. W. Johnston, and G. B. Couch, Springdale, Pa. Apparatus for making sheet-glass. No. 976,125; Nov. 15; Sp. p. 4453; Gaz. vol. 160; p. 754.
France, Adam W., assignor to The France Packing Company, Philadelphia, Pa. Piston and rod packing. No. 945,030; Jan. 4; Sp. p. 44; Gaz. vol. 150; p. 9.
France, Adam W., assignor to The France Packing Company, Philadelphia, Pa. Piston-rod packing. No. 945,031; Jan. 4; Sp. p. 47; Gaz. vol. 150; p. 9.
France Packing Company, The. (See France, Adam W., assignor.)
Franchini, Alcide, New Haven, Conn. Centering device. No. 961,599; June 14; Sp. p. 2813; Gaz. vol. 155; p. 487.
Francis, Albert. (See Callery and Francis.)
Francis, Alvin A., Marcus, Wash. Combined ironing-board, step-ladder, and clothes-rack. No. 968,843; Aug. 30; Sp. p. 6414; Gaz. vol. 157; p. 1118.
Francis, Floyd E., Gaines, Pa. Gummed-strip-serving apparatus. No. 952,106; Mar. 15; Sp. p. 3326; Gaz. vol. 152; p. 599.
Francis, George E., Butte, Mont. High-chair go-cart. No. 949,421; Feb. 15; Sp. p. 3458; Gaz. vol. 151; p. 604.
Francis, Graham I., Coventry, England. Cycle-pedal. No. 955,957; Apr. 26; Sp. p. 4916; Gaz. vol. 153; p. 868.
Francis, Isaac, Fremont, Nebr. Barrel-head. No. 965,803; July 26; Sp. p. 6069; Gaz. vol. 156; p. 1029.
Francis, John C., West New York, N. J., assignor, by mesne assignments, to United Electric Protection Company. Central-energy alarm system. No. 966,897; Aug. 9; Sp. p. 2309; Gaz. vol. 157; p. 378.
Francis, John H., assignor to The Kilby Manufacturing Company, Cleveland, Ohio. Wire-nail machine. No. 979,457; Dec. 27; Sp. p. 4399; Gaz. vol. 161; p. 778.
Francis, John M., Marion, Ind. Sign. No. 962,630; June 28; Sp. p. 5061; Gaz. vol. 155; p. 885.
Francis, William H., Cherryvale, Kans. Brick-kiln and process of burning bricks. No. 972,524; Oct. 11; Sp. p. 2201; Gaz. vol. 159; p. 380.
Francis, William J. (See McGonegal and Francis.)
Francis, William P., Pensacola, Fla. Composite beam structure. No. 957,048; May 3; Sp. p. 1181; Gaz. vol. 154; p. 187.
Francisco, Dudley M., Kalamazoo, Mich. Stalk-puller. No. 973,188; Oct. 18; Sp. p. 3731; Gaz. vol. 159; p. 637.
Francisco, Ferris L. R., Jersey City, N. J. Hanger. No. 972,525; Oct. 11; Sp. p. 2205; Gaz. vol. 159; p. 380.
Frank Adam Electric Company. (See Adam, Fredrick B., assignor.)
Frank, Adolph, Charlottenburg, Germany. Producing hydrogen from water-gas. No. 964,415; July 12; Sp. p. 2982; Gaz. vol. 156; p. 492.
Frank, Albert, Charlottenburg, and H. Freudenberg, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to Societa Generale per La Cianamide, Rome, Italy. Fertilizer. (Reissue.) No. 13,131; July 12; Sp. p. 3118; Gaz. vol. 156; p. 514.
Frank, Albert H. (See Frank, George and A. H.)
Frank and Dugan. (See Murphy, Arthur, assignor.)
Frank, Frank X., Guelph, Ontario, Canada. Suction dust-remover. No. 951,808; Mar. 15; Sp. p. 2741; Gaz. vol. 152; p. 501.
Frank, George and A. H., Fremont, Ohio. Razor. No. 952,034; Mar. 15; Sp. p. 3201; Gaz. vol. 152; p. 576.
Frank Holton & Company. (See Holton, Frank, assignor.)
Frank, John J., Schenectady, N. Y., assignor to General Electric Company. Three-phase transformer. No. 963,132; July 5; Sp. p. 269; Gaz. vol. 156; p. 37.
Frank & Lambert. (See Loomis, Harry T., assignor.)
Frank, Michael E., assignor of one-third to L. Herman, Sheboygan, Wis. Bank-protector. No. 974,564; Nov. 1; Sp. p. 1132; Gaz. vol. 160; p. 170.
Frank Mossberg Company. (See Mossberg, Frank, assignor.)
Frank W. Whitcher Co. (See Barbour, George O., assignor.)
Frank, William E., and C. C. Taylor, assignors to The Foster Brothers Manufacturing Company, St. Louis, Mo. Wire fabric. No. 978,149; Dec. 13; Sp. p. 1590; Gaz. vol. 161; p. 282.
Frank, William V., Springfield, Ohio. Motor. No. 969,467; Sept. 6; Sp. p. 654; Gaz. vol. 158; p. 105.
Frank, William V., Springfield, Ohio. Oscillating motor. No. 969,532; Sept. 6; Sp. p. 815; Gaz. vol. 158; p. 128.
Franke, Arthur, Manitowoc, Wis. Pocket-case. No. 974,371; Nov. 1; Sp. p. 665; Gaz. vol. 160; p. 100.
Franke, Carl G., Monroe, Mich. Apparatus for swaging dental plates. No. 967,873; Aug. 16; Sp. p. 4305; Gaz. vol. 157; p. 736.
Franke, Charles B. (See Hohl and Franke.)
Franke, Emil, assignor to Chemische Fabrik Grünau Landshoff and Meyer Aktiengesellschaft, Grünau, Germany. Alizarin preparation and making same. No. 965,804; July 26; Sp. p. 6070; Gaz. vol. 156; p. 1029.
Franke, Franz, Rheinsberg, Germany. Machine for grinding straight machine-knives. No. 946,635; Jan. 18; Sp. p. 3631; Gaz. vol. 150; p. 609.
Franke, Frederick C. (See Linde and Franke.)
Franke, Herman L., Chicago, Ill. Fly-screen. No. 969,777; Sept. 13; Sp. p. 1361; Gaz. vol. 158; p. 239.

Alphabetical list of patentees—Continued.

Franke, John H., Peoria, Ill. Window-ventilator. No. 946,213; Jan. 11; Sp. p. 2640; Gaz. vol. 150; p. 439.

Franke, Rudolph. (See Burgert and Franke.)

Frankem, Isaac L., Indianapolis, Ind. Dish-washing machine. No. 948,046; Feb. 1; Sp. p. 561; Gaz. vol. 151; p. 90.

Franken, Robert, Los Angeles, assignor to G. E. Alderson, Delano, Cal. Can-opener. No. 961,946; June 21; Sp. p. 3548; Gaz. vol. 155; p. 626.

Frankenheim, Aaron. (See Crowe and Frankenheim.)

Frankenhoff, Anthony G., Atchison, Kans. Lap-robe. No. 958,617; May 17; Sp. p. 4790; Gaz. vol. 154; p. 787.

Frankenstein, Herbert A., and F. H. Amos, South Bend, Ind. Sand and gravel separator. No. 968,928; Aug. 30; Sp. p. 6587; Gaz. vol. 157; p. 1147.

Frankfort, Benjamin. (See Frankfort, Joseph and B.)

Frankfort, Joseph and B., New York, N. Y. Mail-pouch receiving and delivering mechanism. No. 945,776; Jan. 11; Sp. p. 1707; Gaz. vol. 150; p. 287.

Frankl, Arthur, Berlin, Germany. Remedy for swine-plague. No. 953,947; Apr. 5; Sp. p. 521; Gaz. vol. 153; p. 94.

Franklin Chemical Works. (See Ridenour, William E., assignor.)

Franklin Core Rod and Gagger Co. (See Rinebolt, Guy S., assignor.)

Franklin, Edward A., North Chicago, Ill. Churn-dasher. No. 955,394; Apr. 19; Sp. p. 3681; Gaz. vol. 153; p. 647.

Franklin, Emil, New York, N. Y. Air-inlet box for sewers. No. 977,860; Dec. 6; Sp. p. 959; Gaz. vol. 161; p. 151.

Franklin, Moses, Grand Junction, Colo. Chalk holder or cup. No. 967,628; Aug. 16; Sp. p. 3818; Gaz. vol. 157; p. 655.

Franklin, Robert M., Galveston, Tex. Bicycle. No. 958,618; May 17; Sp. p. 4791; Gaz. vol. 154; p. 787.

Franklin, William, Manly, near Sydney, New South Wales, Australia. Apparatus for exhibiting carpets and other textile fabrics. No. 979,755; Dec. 27; Sp. p. 5060; Gaz. vol. 161; p. 881.

Franks, Samuel C., Fremont, Ohio. Window. No. 969,778; Sept. 13; Sp. p. 1362; Gaz. vol. 158; p. 239.

Franks, William, assignor to Superior Manufacturing Company, Muskegon, Mich. Seating. No. 947,493; Jan. 25; Sp. p. 5575; Gaz. vol. 150; p. 926.

Franquist, Gustave E., New York, N. Y. Force-feed oiler. No. 968,929; Aug. 30; Sp. p. 6589; Gaz. vol. 157; p. 1148.

Fransecky, William M., Brooklyn, N. Y. Apparatus for bagging charcoal. No. 952,987; Mar. 22; Sp. p. 5155; Gaz. vol. 152; p. 925.

Franta, Joseph T., Canton, Ohio. Sink-plate. No. 965,510; July 26; Sp. p. 5432; Gaz. vol. 156; p. 927.

Frantz, Ezra A., *et al.* (See Eddleman and Armstrong, assignors.)

Frantz, Fred J., Louisville, Ky. Sand-box. No. 963,885; July 12; Sp. p. 1921; Gaz. vol. 156; p. 316.

Frantz, Tilghman S., and W. H. Troxell, near Coplay borough, Pa. Fertilizer-distributing attachment to cultivators. No. 978,363; Dec. 13; Sp. p. 2043; Gaz. vol. 161; p. 356.

Franz, August, Passaic, N. J. Truck-bearing. No. 960,532; June 7; Sp. p. 596; Gaz. vol. 155; p. 97.

Franz, Frank, Burke, Idaho. Ore-screen. No. 967,008; Aug. 9; Sp. p. 2530; Gaz. vol. 157; p. 417.

Franz, Jacob, Erie, Pa. Life-saving apparatus. No. 946,798; Jan. 18; Sp. p. 4007; Gaz. vol. 150; p. 664.

Franz, Ludwig, Admont, Austria-Hungary. Treatment of peat fiber and its manufacture into paper, &c. No. 945,313; Jan. 4; Sp. p. 673; Gaz. vol. 150; p. 105.

Franzen, Nicklas, Walton, Pa. Method of and machine for making wire-glass. No. 945,314; Jan. 4; Sp. p. 674; Gaz. vol. 150; p. 105.

Franzen, Nicklas, Walton, Pa. Method of and apparatus for manufacturing wire-glass. No. 945,315; Jan. 4; Sp. p. 677; Gaz. vol. 150; p. 105.

Franzen, Nicklas, Walton, Pa. Apparatus for manufacturing wire-glass. No. 945,316; Jan. 4; Sp. p. 679; Gaz. vol. 150; p. 105.

Franzen, Nicklas, Walton, Pa. Machine for making wire-glass. No. 945,317; Jan. 4; Sp. p. 681; Gaz. vol. 150; p. 106.

Franzen, Nicklas, Walton, Pa. Method of and machine for making wire-glass. No. 945,318; Jan. 4; Sp. p. 683; Gaz. vol. 150; p. 106.

Franzen, Nicklas, Walton, Pa. Apparatus for rolling plastic material. No. 945,319; Jan. 4; Sp. p. 685; Gaz. vol. 150; p. 106.

Franzen, Nicklas, Walton, Pa. Method of and machine for making wire-glass. No. 966,819; Aug. 9; Sp. p. 2148; Gaz. vol. 157; p. 354.

Franzmeier, Louis, Newton, Wis. Mower attachment. No. 973,421; Oct. 18; Sp. p. 4209; Gaz. vol. 159; p. 717.

Frasch, Herman, New York, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Obtaining petroleum products. No. 951,272; Mar. 8; Sp. p. 1629; Gaz. vol. 152; p. 291.

Frasch, Herman, New York, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Apparatus for use in obtaining petroleum products. No. 951,729; Mar. 8; Sp. p. 2543; Gaz. vol. 152; p. 443.

Frasch, Herman, New York, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Obtaining petroleum products. No. 968,760; Aug. 30; Sp. p. 6249; Gaz. vol. 157; p. 1092.

Frasch, Herman, New York, N. Y., assignor to The Frasch Sulphur Process Company. Apparatus for mining sulfur. No. 977,444; Dec. 6; Sp. p. 30; Gaz. vol. 161; p. 8.

Frasch Sulphur Process Company, The. (See Frasch, Herman, assignor.)

Frase, Albert J., Breckenridge, Minn. Flight attachment for conveyers. No. 956,520; May 3; Sp. p. 23; Gaz. vol. 154; p. 7.

Fraser, Arthur C., New York, assignor, by mesne assignments, to American Blower Company, Green Island, N. Y. Centrifugal fan or pump. No. 976,795; Nov. 22; Sp. p. 5965; Gaz. vol. 160; p. 1007.

Fraser, Ethelbert M., Yonkers, N. Y. Electrohydraulic elevator system. No. 955,508; Apr. 19; Sp. p. 3904; Gaz. vol. 153; p. 686.

Fraser, James H. (See Mooney, William A., assignor.)

Fraser, John, Milwaukee, Wis. Gyratory machine. No. 948,047; Feb. 1; Sp. p. 562; Gaz. vol. 151; p. 90.

Fraser, John, Milwaukee, Wis. Gyratory machine. No. 952,565; Mar. 22; Sp. p. 4268; Gaz. vol. 152; p. 782.

Fraser, Laura R. (See Harkins, Francis W., assignor.)

Fraser, Norman P., Carsonville, Mich. Gearing. No. 955,858; Apr. 26; Sp. p. 4696; Gaz. vol. 153; p. 834.

Fraser, Spencer L., and A. E. Jacobson, Minneapolis, Minn. Grinding-plate for attrition-mills. No. 975,848; Nov. 15; Sp. p. 3902; Gaz. vol. 160; p. 659.

Fraser, William. (See McCracken, William J., assignor.)

Fraser, William H., San Francisco, Cal. Picture-hanger. No. 947,678; Jan. 25; Sp. p. 5942; Gaz. vol. 150; p. 988.

Fraw, Edward C., Jefferson, Ohio. Hopper-closet grappling-hook. No. 958,915; May 24; Sp. p. 5465; Gaz. vol. 154; p. 916.

Fray, John S., assignor to The John S. Fray Company, Bridgeport, Conn. Tool-chuck. No. 957,760; May 10; Sp. p. 2675; Gaz. vol. 154; p. 460.

Frayer, Charles A., assignor to The Vulcan Steam Shovel Company, Toledo, Ohio. Telescopic bucket. No. 977,608; Dec. 6; Sp. p. 440; Gaz. vol. 161; p. 65.

Frayer, Lee A., and C. O. Howard, Columbus, Ohio, assignors, by mesne assignments, to The Kouns Manufacturing Company, Detroit, Mich. Rotary valve. (Reissue.) No. 13,108; May 3; Sp. p. 1437; Gaz. vol. 154; p. 230.

Frayer, Lee A., Columbus, and W. J. Miller, assignors, by mesne assignments, to The Kelly Motor Truck Company, Springfield, Ohio. Explosive-engine. No. 970,034; Sept. 13; Sp. p. 1933; Gaz. vol. 158; p. 328.

Frazee, Chester M., Hammond, Ind. Machine for making straw pads. No. 960,083; May 31; Sp. p. 7945; Gaz. vol. 154; p. 1334.

Frazer, George G., St. Louis, Mo. Lawn and hedge trimmer. No. 974,653; Nov. 1; Sp. p. 1310; Gaz. vol. 160; p. 203.

Frazer, James A., Los Angeles, Cal. Whip-lock. No. 963,286; July 5; Sp. p. 657; Gaz. vol. 156; p. 92.

Frazer, Terry H., and W. W. Vanlandingham, Lone Oak, Tex. Rotary engine. No. 970,035; Sept. 13; Sp. p. 1934; Gaz. vol. 158; p. 328.

Frazier, Charles H., South Bend, Ind. Vehicle-tire tool. No. 979,279; Dec. 20; Sp. p. 4055; Gaz. vol. 161; p. 697.

Frazier, George C., Pittsburg, Pa. Sheet-metal-bending machine. No. 951,639; Mar. 8; Sp. p. 2388; Gaz. vol. 152; p. 413.

Frazier, George C., assignor to The National Casket Company, Pittsburg, Pa. Catch for casket-covers. No. 952,796; Mar. 22; Sp. p. 4785; Gaz. vol. 152; p. 862.

Frazier, George C., assignor to The National Casket Company, Pittsburg, Pa. Fastening for casket-tops. No. 954,276; Apr. 5; Sp. p. 1230; Gaz. vol. 153; p. 205.

Frazier, Isaiah F., New Castle, Pa. Fence-post. No. 958,619; May 17; Sp. p. 4793; Gaz. vol. 154; p. 787.

Freak, George R., assignor of one-half to J. Roberts, Chicago, Ill. Safety-gate. No. 979,458; Dec. 27; Sp. p. 4403; Gaz. vol. 161; p. 779.

Frear, Otto E., Albany, assignor of one-third to P. J. Marsh, Troy, and one-third to F. C. Few, Albany, N. Y. Internal-combustion engine. No. 955,786; Apr. 19; Sp. p. 4516; Gaz. vol. 153; p. 780.

Frech, Theodore W., Jr., assignor to The National Electric Lamp Company, Cleveland, Ohio. Glass-heating furnace. No. 952,517; Mar. 22; Sp. p. 4156; Gaz. vol. 152; p. 765.

Freck, Harry M., Columbus, Ohio. Type-setting machine. No. 945,777; Jan. 11; Sp. p. 1709; Gaz. vol. 150; p. 287.

Frede, Charles F. (See Westlake and Frede.)

Frede, Charles F., assignor to Cast Steel Platform Company, St. Louis, Mo. Car-underframe. No. 954,026; Apr. 5; Sp. p. 689; Gaz. vol. 153; p. 121.

Fredenburgh, George A., Pawtucket, R. I., assignor to Boston Braiding Company. Finishing threads or yarns from warp-beams. No. 972,760; Oct. 11; Sp. p. 2712; Gaz. vol. 159; p. 461.

Fredenhagen, Harry A., Chicago, Ill. Combined washtub, sink, and drain-board cover. No. 964,857; July 19; Sp. p. 4062; Gaz. vol. 156; p. 676.

Frederick, Charles W. H., Melrose, Mass. Car-seat. No. 971,983; Oct. 4; Sp. p. 1050; Gaz. vol. 159; p. 176.

Alphabetical list of patentees—Continued.

Frederick, Frank J., Scranton, Pa. Sealing means for registering devices. No. 956,490; Apr. 26; Sp. p. 6089; Gaz. vol. 153; p. 1054.
Frederick, John H., Tiffin, Ohio. Bracket for ironing-boards. No. 972,355; Oct. 11; Sp. p. 1822; Gaz. vol. 159; p. 320.
Frederick, Joseph H. (See Cookingham, Peter P., assignor.)
Frederick, Lott, Indiana, Pa. Ironing-table. No. 969,615; Sept. 6; Sp. p. 992; Gaz. vol. 158; p. 158.
Frederick Stearns & Company. (See Cadwell, Harry W., assignor.)
Frederick, Walter A., Muskegon, Mich. Breather for explosive-engines. No. 967,895; Aug. 23; Sp. p. 4353; Gaz. vol. 157; p. 768.
Frederick, Walter A., Muskegon, Mich. Multiple-feed gear-pump. No. 974,783; Nov. 8; Sp. p. 1601; Gaz. vol. 160; p. 269.
Fredericks, Elmer. (See Jones, Chesney L., assignor.)
Frederickson, Clayton E., assignor of twenty-five one-hundredths to G. S. Chamberlin and thirty-seven and one-half one-hundredths to E. D. McCaddam, San Francisco, Cal. Lifting-magnet. No. 974,047; Oct. 25; Sp. p. 5520; Gaz. vol. 159; p. 957.
Frederickson, Erasmus. (See Olds, Charles L., assignor.)
Frederiksen, Anton, Copenhagen, Denmark. Three-pronged safety-pin. No. 959,499; May 31; Sp. p. 6662; Gaz. vol. 154; p. 1135.
Frederiksen, Thorvald C., Astoria, Oreg. Hand-truck. No. 953,523; Mar. 29; Sp. p. 6346; Gaz. vol. 152; p. 1137.
Fredlihp, Joseph L., Madera, Cal. Belt-loop. No. 980,175; Dec. 27; Sp. p. 6000; Gaz. vol. 161; p. 1021.
Fredrick, Isaac M., Perkasie, Pa. Poultry and animal feeding device. No. 963,041; July 5; Sp. p. 27; Gaz. vol. 156; p. 6.
Fredrick, William D., Bridgeton, assignor to Millville Machine Company, Millville, N. J. Glass-blowing machine. No. 975,758; Nov. 15; Sp. p. 3725; Gaz. vol. 160; p. 628.
Fredrick, William D., Bridgeton, assignor to Millville Machine Company, Millville, N. J. Glass-blowing machine. No. 975,759; Nov. 15; Sp. p. 3731; Gaz. vol. 160; p. 629.
Fredriksson, Reinhold F. (See Egner and Fredriksson.)
Fredrum, John W., Denver, Colo. Milk-strainer. No. 969,357; Sept. 6; Sp. p. 436; Gaz. vol. 158; p. 70.
Free, Reuben L., Leechburg, Pa. Clothes-dampener. No. 978,727; Dec. 13; Sp. p. 2839; Gaz. vol. 161; p. 482.
Free, William C., assignor to Illinois Sewing Machine Company, Chicago, Ill. Tension-releasing device for sewing-machines. No. 954,858; Apr. 12; Sp. p. 2551; Gaz. vol. 153; p. 435.
Freeland, George W., Rock Island, Ill., assignor to Williams, White & Company. Reversing mechanism. No. 948,781; Feb. 8; Sp. p. 2129; Gaz. vol. 151; p. 362.
Freeland, Gustaf, Salt Lake City, Utah. Miner's candlestick. No. 977,381; Nov. 29; Sp. p. 7278; Gaz. vol. 160; p. 1236.
Freeland, John F., Bloomfield, Ind. Rein-support. No. 945,385; Jan. 4; Sp. p. 824; Gaz. vol. 150; p. 128.
Freeland, William O., Ainsworth, Iowa. Brace for fence-posts. No. 962,950; June 28; Sp. p. 5682; Gaz. vol. 155; p. 996.
Freelman, Louis G., Cincinnati, Ohio. Shoe-supporting jack. No. 977,180; Nov. 29; Sp. p. 6868; Gaz. vol. 160; p. 1166.
Freeman, Charles H., Bloomington, Ill. Metal culvert. No. 949,568; Feb. 15; Sp. p. 3751; Gaz. vol. 151; p. 652.
Freeman, Edgar H., Trenton, N. J. Electrical sign-receptacle. No. 961,600; June 14; Sp. p. 2814; Gaz. vol. 155; p. 487.
Freeman, Edgar H., Trenton, N. J. Adjustable casing for lamp-sockets. No. 972,526; Oct. 11; Sp. p. 2206; Gaz. vol. 159; p. 381.
Freeman, Edgar H., assignor to E. H. Freeman Electric Company, Trenton, N. J. Electrical-receptacle mounting. No. 947,154; Jan. 18; Sp. p. 4739; Gaz. vol. 150; p. 781.
Freeman, Edgar H., assignor to E. H. Freeman Electric Company, Trenton, N. J. Cover for electrical outlet-boxes. No. 971,002; Sept. 20; Sp. p. 3954; Gaz. vol. 158; p. 676.
Freeman, Edwin T., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting metallic fastenings. No. 970,908; Sept. 20; Sp. p. 3779; Gaz. vol. 158; p. 645.
Freeman, Frank D., Minot, N. D. Filter. No. 955,787; Apr. 19; Sp. p. 4519; Gaz. vol. 153; p. 780.
Freeman, George M., Seattle, Wash. Cream-collecting pump. No. 972,075; Oct. 4; Sp. p. 1222; Gaz. vol. 159; p. 207.
Freeman, Henry L., Dundee, Ill. Music rack and support. No. 951,273; Mar. 8; Sp. p. 1640; Gaz. vol. 152; p. 291.
Freeman, Horace C., White Bear, Minn. Sand-drying apparatus. No. 963,133; July 5; Sp. p. 271; Gaz. vol. 156; p. 37.
Freeman, John W., Joplin, Mo. Auto-drive boat. No. 956,491; Apr. 26; Sp. p. 6090; Gaz. vol. 153; p. 1054.
Freeman, John W., Joplin, Mo. Hoisting-engine. No. 973,028; Oct. 18; Sp. p. 3362; Gaz. vol. 159; p. 581.
Freeman, John W., Kansas City, Kans. Lock. No. 964,507; July 19; Sp. p. 3204; Gaz. vol. 156; p. 555.
Freeman, Joseph W., Peebles, Ohio. Grave-vault. No. 970,208; Sept. 13; Sp. p. 2286; Gaz. vol. 158; p. 387.
Freeman, Josiah P., Social Circle, Ga. Back-band hook and clamp. No. 947,017; Jan. 18; Sp. p. 4492; Gaz. vol. 150; p. 739.
Freeman, Laban T., Sr., Brookville, Miss. Educational appliance. No. 971,185; Sept. 27; Sp. p. 4365; Gaz. vol. 158; p. 766.
Freeman, Merrill P. (See Worthen, Burt L., assignor.)
Freeman, Michael, Racine, Wis. Conveyer for feed-cutters. No. 961,601; June 14; Sp. p. 2815; Gaz. vol. 155; p. 487.
Freeman, Nat H., Boulder, Colo. Apparatus for purifying liquids or semiliquids. No. 948,725; Feb. 8; Sp. p. 2007; Gaz. vol. 151; p. 343.
Freeman, Nat H., Boulder, Colo. Retort-furnace. No. 949,178; Feb. 15; Sp. p. 2934; Gaz. vol. 151; p. 520.
Freeman, Richard. (See Promenshenkel and Freeman.)
Freeman, Vernon C., Rock Falls, assignor of one-half to J. W. and D. L. Martin, Sterling, Ill. Supporting device for fruit-protecting envelops. No. 946,897; Jan. 18; Sp. p. 4254; Gaz. vol. 150; p. 699.
Freeman, Vernon C., Rock Falls, and C. T. Mack, Sterling, Ill. Post-card. No. 963,886; July 12; Sp. p. 1922; Gaz. vol. 156; p. 316.
Freeman, Walter F., Tooting, London, England, assignor to Merkham Trading Company. Hair curler and waver. No. 957,462; May 10; Sp. p. 2070; Gaz. vol. 154; p. 359.
Freeman, William F., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Adjustable detachable bracket. No. 977,609; Dec. 6; Sp. p. 441; Gaz. vol. 161; p. 65.
Freemark, Micheal, Hope, N. D. Post-hole digger. No. 978,444; Dec. 13; Sp. p. 2216; Gaz. vol. 161; p. 384.
Freer, Charles K., Sandusky, Ohio. Device for driving fishes. No. 978,872; Dec. 20; Sp. p. 3115; Gaz. vol. 161; p. 553.
Freese, Etson L., New York, N. Y. Apparatus for felling trees. No. 971,600; Oct. 4; Sp. p. 197; Gaz. vol. 159; p. 35.
Freeth, Francis A., Great Crosby, and H. E. Cocksedge, London, England. Making ammonium chlorid. No. 970,909; Sept. 20; Sp. p. 3784; Gaz. vol. 158; p. 646.
Freeze, John H., assignor to The Freeze Threshing Machine Co., Cape Girardeau, Mo. Threshing-machine. No. 963,887; July 12; Sp. p. 1923; Gaz. vol. 156; p. 316.
Freeze Threshing Machine Co., The. (See Freeze, John H., assignor.)
Frefel, Johann. (See Kuttruff and Frefel.)
Freier, Anton, Boston, Mass., assignor to Holtzer-Cabot Electric Company. Brush-holder. No. 960,875; June 7; Sp. p. 1280; Gaz. vol. 155; p. 214.
Freitag, Charles A., St. Joseph, Mich. Picker for grapes, &c. No. 971,186; Sept. 27; Sp. p. 4365; Gaz. vol. 158; p. 766.
Frelinger, Margaret. (See Stockmann, Fred B., assignor.)
Fremaux, Charles. (See Schmidt and Fremaux.)
Fremon, Jules A., Leeper, Mo. Lock. No. 977,181; Nov. 29; Sp. p. 6872; Gaz. vol. 160; p. 1167.
Fremont, Charles, Paris, France. Shaft or axle crank. No. 958,958; May 24; Sp. p. 5536; Gaz. vol. 154; p. 929.
Fremont Mitten and Glove Company, The. (See Zimmerman, Harry, assignor.)
French, Alfred W., Buffalo, N. Y. Dumping-bucket. No. 965,511; July 26; Sp. p. 5433; Gaz. vol. 156; p. 927.
French, Alfred W., Buffalo, N. Y. Dumping-bucket. No. 975,345; Nov. 8; Sp. p. 2848; Gaz. vol. 160; p. 460.
French, Algy D., Shelton, Conn. Foot-support. No. 970,910; Sept. 20; Sp. p. 3785; Gaz. vol. 158; p. 646.
French, Cyrus O., Kansas City, Mo., assignor to Bender Car Door Company. Grain-door for cars. No. 951,809; Mar. 15; Sp. p. 2742; Gaz. vol. 152; p. 501.
French, Dennis T., assignor to French Upper Hanger Company, Exeter, N. H. Upper-hanger. No. 951,500; Mar. 8; Sp. p. 2117; Gaz. vol. 152; p. 366.
French, Dennis T., assignor to French Upper Hanger Company, Exeter, N. H. Upper-hanger. No. 956,069; Apr. 26; Sp. p. 5158; Gaz. vol. 153; p. 909.
French, Franklin B., Cincinnati, Ohio. Metal bed-frame. No. 950,619; Mar. 1; Sp. p. 331; Gaz. vol. 152; p. 54.
French, G. Watson, *et al.* (See Hecht, Joseph L., assignor.)
French, George B., Fremont, Nebr. Hydraulic motor. No. 960,876; June 7; Sp. p. 1281; Gaz. vol. 155; p. 214.
French, Harold, London, England. Apparatus for casting concrete structures. No. 975,943; Nov. 15; Sp. p. 4095; Gaz. vol. 160; p. 691.
French, John A. (See Baker and French.)
French, John R., Los Angeles, Cal. Milling-machine attachment. No. 953,904; Apr. 5; Sp. p. 435; Gaz. vol. 153; p. 79.
French, Joseph, Woonsocket, R. I. Sewing-machine needle. No. 947,484; Jan. 25; Sp. p. 5553; Gaz. vol. 150; p. 923.
French, Joseph, Woonsocket, R. I. Sewing-machine needle. No. 947,485; Jan. 25; Sp. p. 5555; Gaz. vol. 150; p. 923.
French, Lamartine M., and W. M. O'Brien, assignors to Ariston Piano-Player Company, Chicago, Ill. Pneumatic actuating unit. No. 968,546; Aug. 30; Sp. p. 5775; Gaz. vol. 157; p. 1017.

Alphabetical list of patentees—Continued.

French, Marcus L., Onida, S. D. Trap. No. 957,049; May 3; Sp. p. 1182; Gaz. vol. 154; p. 187.
French, Nathaniel, *et al.* (See Hecht, Joseph L., assignor.)
French, Robert, Hillsboro, Ill. Cartridge-filler. No. 970,318; Sept. 13; Sp. p. 2513; Gaz. vol. 158; p. 424.
French, Rollin M. (See Spoor, Robert C., assignor.)
French, Silas H., Oberlin, Ohio. Flying-machine. No. 976,161; Nov. 22; Sp. p. 4556; Gaz. vol. 160; p. 788.
French Upper Hanger Company. (See French, Dennis T., assignor.)
French, Wallace G., Oakland, Cal. Telephone-directory. No. 974,957; Nov. 8; Sp. p. 2012; Gaz. vol. 160; p. 329.
French, Walter, assignor to Steel Roll Machine Company, Chicago, Ill. Ironing-machine. No. 961,489; June 14; Sp. p. 2583; Gaz. vol. 155; p. 450.
French, Walter L., Brockton, Mass. Manufacturing shoe-rands. No. 951,108; Mar. 8; Sp. p. 1309; Gaz. vol. 152; p. 240.
French, Warren, assignor, by mesne assignments, to C. M. Hall Lamp Company, Detroit, Mich. Lamp. No. 960,632; June 7; Sp. p. 807; Gaz. vol. 155; p. 132.
French, William D., San Diego, Cal. Carbureter. No. 951,779; Mar. 8; Sp. p. 2674; Gaz. vol. 152; p. 462.
French, William H., Evansville, Ind. Rail-joint. No. 952,324; Mar. 15; Sp. p. 3754; Gaz. vol. 152; p. 672.
Frennet, Louis, Ligny, Belgium. Chemical-manure distributer. No. 977,290; Nov. 29; Sp. p. 7076; Gaz. vol. 160; p. 1204.
Frenot, Louis D., Newark, N. J. Nut-lock. No. 957,504; May 10; Sp. p. 2156; Gaz. vol. 154; p. 373.
Frentzen, Georg, Aix-la-Chapelle, Germany. Hand steering-wheel for motor-vehicles. No. 949,297; Feb. 15; Sp. p. 3178; Gaz. vol. 151; p. 560.
Frenzel, William F., assignor of one-half to J. H. Weston, Indianapolis, Ind. Removable handle for fare-register rods. No. 960,877; June 7; Sp. p. 1286; Gaz. vol. 155; p. 215.
Frerichs, Frederick W., St. Louis, Mo. Manufacturing ammonia. No. 946,427; Jan. 11; Sp. p. 3198; Gaz. vol. 150; p. 515.
Frerichs, Gustav, Hanover, Germany. Barovacuummeter. No. 960,633; June 7; Sp. p. 809; Gaz. vol. 155; p. 133.
Frese, Adolf, Los Angeles, Cal. Combined transit and level. No. 955,958; Apr. 26; Sp. p. 4917; Gaz. vol. 153; p. 869.
Frese, Sophia, Kellogg, Minn. Vegetable-topper. No. 945,229; Jan. 4; Sp. p. 465; Gaz. vol. 150; p. 76.
Fresko, Alix and B. W., Amsterdam, Ohio. Wrench. No. 970,209; Sept. 13; Sp. p. 2287; Gaz. vol. 158; p. 387.
Fresko, Bela W. (See Fresko, Alix and B. W.)
Fretwell, John A. (See Cheek, Henry M., assignor.)
Fretz, Samuel S., Jr. (See Hartzell, Morris H., assignor.)
Freudenberg, Hermann. (See Frank and Freudenberg.) (Reissue.)
Freund, Conrad, St. Paul, Minn. Leg-spreader. No. 949,118; Feb. 15; Sp. p. 2825; Gaz. vol. 151; p. 499.
Freund, Erwin O., assignor to G. Freund, Chicago, Ill. Machine for cleaning intestines. No. 973,348; Oct. 18; Sp. p. 4044; Gaz. vol. 159; p. 692.
Freund, Gustav. (See Freund, Erwin O., assignor.)
Freund, Joseph, St. Louis, Mo. Tile. No. 979,280; Dec. 20; Sp. p. 4056; Gaz. vol. 161; p. 698.
Frey, Charles G., Youngwood, Pa. Fluid-pressure railway-brake. No. 945,087; Jan. 4; Sp. p. 171; Gaz. vol. 150; p. 28.
Frey, Ernest H., Cleveland, Ohio. Type casting and tubing machine. No. 965,448; July 26; Sp. p. 5290; Gaz. vol. 156; p. 905.
Frey, Ernest H., Cleveland, Ohio. Adressing-machine. No. 967,896; Aug. 23; Sp. p. 4354; Gaz. vol. 157; p. 768.
Frey, George, Steelton, and S. Lotz, Harrisburg, Pa. Car-fender. No. 970,699; Sept. 20; Sp. p. 3340; Gaz. vol. 158; p. 574.
Frey, Henry. (See Reutzel and Frey.)
Frey, Jacob, New York, N. Y. Spool-holder for embroidery-machines. No. 951,810; Mar. 15; Sp. p. 2743; Gaz. vol. 152; p. 501.
Frey, John S., New York, N. Y. Soap-dish. No. 970,485; Sept. 20; Sp. p. 2861; Gaz. vol. 158; p. 500.
Frey, John W. (See Schmitt, Oscar J. E., assignor.)
Frey, Victor, assignor to Schuhfabrik Bonndorf Gebrüder Kriechle, Bonndorf, Germany. Manufacture of boot or shoe caps. No. 976,451; Nov. 22; Sp. p. 5249; Gaz. vol. 160; p. 891.
Freyberg, Otto, Leipzig, Germany. Door-guard. No. 975,760; Nov. 15; Sp. p. 3735; Gaz. vol. 160; p. 629.
Freyer, Egmont R., Sacramento, assignor to Peerless Crown Cork Feeder Company, San Francisco, Cal. Mechanism for feeding caps to capping-machines. No. 953,326; Mar. 29; Sp. p. 5902; Gaz. vol. 152; p. 1066.
Freyman, John E., Schenectady, N. Y. Countersink. No. 975,944; Nov. 15; Sp. p. 4098; Gaz. vol. 160; p. 692.
Freymuth, Louis H., Los Angeles, Cal. Heating apparatus. No. 948,488; Feb. 8; Sp. p. 1496; Gaz. vol. 151; p. 264.
Friar, Michael. (See Cunningham and Friar.)
Frick, Chester A., Defiance, Ohio. Wheel construction. No. 962,631; June 28; Sp. p. 5062; Gaz. vol. 155; p. 885.
Frick Company. (See Baer, Alvin H., assignor.)
Frick, Henry H., assignor to Frick Manufacturing Company, Frick, Pa. Napkin-holder. No. 948,576; Feb. 8; Sp. p. 1680; Gaz. vol. 151; p. 293.
Frick, John J., assignor to Thos. Devlin Manufacturing Co., Philadelphia, Pa. Pulley. No. 959,212; May 24; Sp. p. 6062; Gaz. vol. 154; p. 1014.
Frick Manufacturing Company. (See Frick, Henry H., assignor.)
Frick, Orlando A., assignor to The Turnbull Wagon Company, Defiance, Ohio. Wheel construction. No. 962,207; June 21; Sp. p. 4127; Gaz. vol. 155; p. 716.
Frick, Orlando C., assignor to Smalley Manufacturing Company, Manitowoc, Wis. Driving and reversing gearing. No. 966,679; Aug. 9; Sp. p. 1796; Gaz. vol. 157; p. 307.
Fricke, Louis E., Evansville, Ind. Shelving. No. 966,002; Aug. 2; Sp. p. 338; Gaz. vol. 157; p. 55.
Friday, Marton, Bluffs, Ill. Wire-splicer. No. 972,844; Oct. 18; Sp. p. 2900; Gaz. vol. 159; p. 516.
Fridell, Louis A., Houston, Tex. Target-throwing device. No. 947,299; Jan. 25; Sp. p. 5090; Gaz. vol. 150; p. 860.
Fridell, Willis M., Washington, D. C. Clothes-line clip. No. 955,257; Apr. 19; Sp. p. 3376; Gaz. vol. 153; p. 601.
Fridgen, John A., Leaf Mountain, Minn. Friction-clutch. No. 975,226; Nov. 8; Sp. p. 2604; Gaz. vol. 160; p. 420.
Fried, Johann A., Barmen, Germany, assignor, by mesne assignments, of two-thirds to M. Bouchsein, New York, N. Y. Grate for refuse-consumers. No. 963,430; July 5; Sp. p. 936; Gaz. vol. 156; p. 139.
Fried. Krupp Aktiengesellschaft. (See Böminghaus, Franz, assignor.)
Fried. Krupp Aktiengesellschaft. (See Eberhard and Schmitz, assignors.)
Fried. Krupp Actiengesellschaft. (See Koch, Norbert, assignor.)
Fried. Krupp Aktiengesellschaft. (See Ziegenfuss, Friedrich, assignor.)
Fried. Krupp Aktiengesellschaft Germaniawerft. (See Noe, Ludwig, assignor.)
Friedberg, Guido, Wieliczka, assignor of two-thirds to K. Kotwinski, Wieliczka, and F. Drobniak, Brzeszcze, Austria-Hungary. Elastic wheel. No. 953,327; Mar. 29; Sp. p. 5904; Gaz. vol. 152; p. 1066.
Friedberger, Simon. (See Bloemker, Henry W., assignor.)
Friedel, Albert H., Baltimore, Md. Flying-machine. No. 967,359; Aug. 16; Sp. p. 3255; Gaz. vol. 157; p. 565.
Friedel, John G., Jr., Van Nest, N. Y. Folding bed. No. 979,281; Dec. 20; Sp. p. 4057; Gaz. vol. 161; p. 698.
Friedel, Robert, Cincinnati, Ohio, assignor of one-third to A. H. F. Geyer, Newport, Ky. Puttyless window-sash. No. 970,438; Sept. 13; Sp. p. 2742; Gaz. vol. 158; p. 462.
Friedenwald, Jacob H., Baltimore, Md. Decanter. No. 950,321; Feb. 22; Sp. p. 5387; Gaz. vol. 151; p. 945.
Friedenwald, Jacob H., Baltimore, Md. Igniting system for internal-combustion engines. No. 953,603; Mar. 29; Sp. p. 6505; Gaz. vol. 152; p. 1162.
Friedenwald, Jacob H., Baltimore, Md. Auxiliary air-valve for charge-forming devices. No. 960,084; May 31; Sp. p. 7945; Gaz. vol. 154; p. 1334.
Friederich, Frederick, *et al.* (See Woerner, Albert M., assignor.)
Friederick, Philippe, Salina, Kans. Mail delivering and receiving apparatus. No. 963,134; July 5; Sp. p. 272; Gaz. vol. 156; p. 37.
Friedey, Charles L., Cleveland, Ohio. Rotary brush. No. 980,091; Dec. 27; Sp. p. 5787; Gaz. vol. 161; p. 992.
Friedlaender, Albert, Berlin-Halensee, assignor to A. Horowitz, Berlin, Germany. Rendering hydroxyl derivatives of aromatic hydrocarbons soluble in water. No. 966,820; Aug. 9; Sp. p. 2152; Gaz. vol. 157; p. 354.
Friedlander, Jacob, and M. Pecar, Gary, Ind. Automatic electric railway-signal. No. 951,640; Mar. 8; Sp. p. 2389; Gaz. vol. 152; p. 414.
Friedlander, Joseph, New York, N. Y. Eyeglasses. (Reissue.) No. 13,088; Mar. 8; Sp. p. 2696; Gaz. vol. 152; p. 465.
Friedlund, Charles, Mountain, Wis. Bark-rossing device. No. 973,494; Oct. 25; Sp. p. 4372; Gaz. vol. 159; p. 765.
Friedman, Edgar, New York, N. Y. Bung and tap for barrels. No. 976,647; Nov. 22; Sp. p. 5663; Gaz. vol. 160; p. 958.
Friedman, Goste, Jamestown, N. Y. Bread-mixer. No. 960,878; June 7; Sp. p. 1287; Gaz. vol. 155; p. 215.
Friedman, Goste, Jamestown, N. Y. Floor-wiper. No. 960,879; June 7; Sp. p. 1289; Gaz. vol. 155; p. 215.
Friedman, Joseph L. (See Hall, Charles F., assignor.)
Friedman, Joseph P., *et al.* (See Schoepe, Joseph, assignor.)
Friedman, Samuel, New York, N. Y. Snow-melting machine. No. 977,724; Dec. 6; Sp. p. 678; Gaz. vol. 161; p. 105.
Friedman, Samuel M., New York, N. Y. Vehicle-wheel. No. 970,911; Sept. 20; Sp. p. 3786; Gaz. vol. 158; p. 646.
Friedman, Samuel N., New York, N. Y., assignor to Gabbe Friedman Company. Combination-lock. No. 952,797; Mar. 22; Sp. p. 4786; Gaz. vol. 152; p. 862.
Friedmann, Firm of Alex. (See Hajek, Otto, assignor.)
Friedmann, Anton R., Piqua, Ohio. Shaft-brace. No. 951,780; Mar. 8; Sp. p. 2676; Gaz. vol. 152; p. 462.

Alphabetical list of patentees—Continued.

Friedrich, Richard, Glösa, near Chemnitz, Germany, and F. Hirsch, Vienna, Austria-Hungary. Making sodium sulfite and ammonium chlorid. No. 957,761; May 10; Sp. p. 2677; Gaz. vol. 154; p. 460.
Friedrichs, Adolf. (See Klein and Friedrichs.)
Friend, Charles M., Chicago, Ill. Mechanical clasp particularly adapted for wearing-apparel. No. 948,048; Feb. 1; Sp. p. 563; Gaz. vol. 151; p. 90.
Fries, Albert C., Grove City, Ohio. Attachment for educational globes. No. 978,997; Dec. 20; Sp. p. 3405; Gaz. vol. 161; p. 599.
Fries, Albert N., Cincinnati, Ohio. Window-shade catch-pulley. No. 968,547; Aug. 30; Sp. p. 5778; Gaz. vol. 157; p. 1017.
Fries, John W., Winston Salem, N. C. Humidifier. No. 947,300; Jan. 25; Sp. p. 5094; Gaz. vol. 150; p. 860.
Fries, John W., Winston Salem, N. C. Humidifier. No. 947,301; Jan. 25; Sp. p. 5098; Gaz. vol. 150; p. 861.
Fries, John W., Winston Salem, N. C. Humidifier. No. 957,197; May 10; Sp. p. 1491; Gaz. vol. 154; p. 266.
Fries, John W., Winston Salem, N. C. Humidifier. No. 969,854; Sept. 13; Sp. p. 1542; Gaz. vol. 158; p. 265.
Friesen, George E., North Yakima, Wash. Spring-wheel. No. 970,486; Sept. 20; Sp. p. 2862; Gaz. vol. 158; p. 500.
Frikart, Eugen, assignor to Elsässische Maschinenbau-Gesellschaft, Mülhausen, Germany. Slide-valve motion for steam-engines. No. 957,762; May 10; Sp. p. 2679; Gaz. vol. 154; p. 460.
Frink, Carroll H., Jacksonville, Fla. Apparatus for the administration of general anesthetics. No. 978,728; Dec. 13; Sp. p. 2840; Gaz. vol. 161; p. 482.
Frink, Etta P., and D. A. Jones, Fort Lupton, Colo. Mold for cement blocks. No. 977,792; Dec. 6; Sp. p. 817; Gaz. vol. 161; p. 127.
Frink, Fred J. (See Frink, Robert L. and F. J.)
Frink, Robert L., Cleveland, Ohio. Method of and apparatus for drawing glass. No. 963,888; July 12; Sp. p. 1927; Gaz. vol. 156; p. 317.
Frink, Robert L., Cleveland, Ohio. Method of and apparatus for drawing glass. No. 972,613; Oct. 11; Sp. p. 2406; Gaz. vol. 159; p. 411.
Frink, Robert L., Cleveland, Ohio. Regulation of air-supply in drawing glass cylinders. No. 972,614; Oct. 11; Sp. p. 2410; Gaz. vol. 159; p. 412.
Frink, Robert L., Lancaster, Ohio. Bait for drawing glass. No. 972,615; Oct. 11; Sp. p. 2413; Gaz. vol. 159; p. 412.
Frink, Robert L., Belle Vernon, assignor to Window Glass Machine Company, Pittsburg, Pa. Valve for regulating the volume and pressure of fluids. No. 953,133; Mar. 29; Sp. p. 5500; Gaz. vol. 152; p. 1003.
Frink, Robert L., Belle Vernon, assignor to Window Glass Machine Company, Pittsburg, Pa. Bait for drawing glass. No. 973,934; Oct. 25; Sp. p. 5285; Gaz. vol. 159; p. 917.
Frink, Robert L., Cleveland, and W. R. Campbell, Lancaster, Ohio. Flattening-oven. No. 972,612; Oct. 11; Sp. p. 2404; Gaz. vol. 159; p. 411.
Frink, Robert L. and F. J., Lancaster, Ohio. Drawing glass. No. 972,616; Oct. 11; Sp. p. 2417; Gaz. vol. 159; p. 412.
Frink, Robert L. and F. J., Lancaster, Ohio. Bait for drawing glass. No. 972,687; Oct. 11; Sp. p. 2555; Gaz. vol. 159; p. 435.
Frisbee, Frank E., Des Moines, Iowa. Window-frame. No. 971,261; Sept. 27; Sp. p. 4519; Gaz. vol. 158; p. 790.
Frisbie, Charles B. (See Bailey, Charles A., assignor.)
Frisell, Gustav. (See Jörgensen, Walter, assignor.)
Frishmuth, Charles S., Philadelphia, Pa. Packless valve. No. 967,009; Aug. 9; Sp. p. 2532; Gaz. vol. 157; p. 417.
Frisholm, William W., Leadville, Colo. Beer-tapper. No. 948,647; Feb. 8; Sp. p. 1839; Gaz. vol. 151; p. 316.
Fritchle Automobile and Battery Company, The. (See Fritchle, Oliver P., assignor.)
Fritchle, Oliver P., assignor to The Fritchle Automobile and Battery Company, Denver, Colo. Safety-brake and lock-switch mechanism for electric automobiles. No. 972,845; Oct. 18; Sp. p. 2902; Gaz. vol. 159; p. 516.
Fritsch, Edward J., Willoughby, assignor to The American Clay Machinery Company, Bucyrus, Ohio. Machine for handling bricks. No. 956,330; Apr. 26; Sp. p. 5736; Gaz. vol. 153; p. 998.
Fritsch, Edward J., Willoughby, assignor to The American Clay Machinery Company, Bucyrus, Ohio. Device for handling bricks. No. 977,610; Dec. 6; Sp. p. 443; Gaz. vol. 161; p. 65.
Fritsche, Lillian S. (See Fritsche, Richard C., assignor.)
Fritsche, Richard C., assignor to himself and L. S. Fritsche, Brooklyn, N. Y. Attachment for holding down vests. No. 960,303; June 7; Sp. p. 125; Gaz. vol. 155; p. 25.
Fritz, Charles P., Philadelphia, Pa. Dental scraper. No. 945,713; Jan. 4; Sp. p. 1506; Gaz. vol. 150; p. 235.
Fritz, Emil A., and H. J. Carson, Fairfax, Minn. Portable elevator. No. 973,495; Oct. 25; Sp. p. 4373; Gaz. vol. 159; p. 765.
Fritz, Godfrey. (See Vondenbosch, Raymond H., assignor.)
Fritz, John P., Paterson, N. J. Box-fastener. No. 958,916; May 24; Sp. p. 5466; Gaz. vol. 154; p. 916.
Fritz, Oscar, H. E., *et al.* (See Aschenbrener, Fredrick C., assignor.)
Fritz, Walter. (See Emden and Fritz.)
Friz, Emil, Göppingen, Germany. Top-spinner. No. 969,264; Sept. 6; Sp. p. 244; Gaz. vol. 158; p. 40.
Froehlich, David. (See Feld and Froehlich.)
Froehlich, David, New York, N. Y. Lock for vehicles. No. 950,262; Feb. 22; Sp. p. 5274; Gaz. vol. 151; p. 925.
Froelich, Carl H., St. Louis, Mo. Electric street-lighting. No. 979,459; Dec. 27; Sp. p. 4405; Gaz. vol. 161; p. 779.
Froelich, Charles F. (See White, John W., assignor.)
Froesé, Minna, New York, N. Y. Ash can or barrel. No. 973,029; Oct. 18; Sp. p. 3363; Gaz. vol. 159; p. 582.
Froesé, Minnie, New York, N. Y. Bow forming, holding, and attaching device. No. 967,509; Aug. 16; Sp. p. 3586; Gaz. vol. 157; p. 615.
Froggatt, John, Camberwell, and C. Stacey, Malvern, Victoria, Australia. Coupling. No. 974,254; Nov. 1; Sp. p. 383; Gaz. vol. 160; p. 56.
Froggatt, William H. (See Seeger, August C., assignor.)
Frogue, Arthur J., Kansas City, Mo., and M. A. Weber, La Crosse, Wis. Spring-wheel. No. 973,769; Oct. 25; Sp. p. 4943; Gaz. vol. 159; p. 860.
Frohlich, Richard C., Philadelphia, Pa. Turbine. No. 957,944; May 17; Sp. p. 3078; Gaz. vol. 154; p. 552.
Fromhart, William H., Golden, Colo. Hinge. No. 976,999; Nov. 29; Sp. p. 6466; Gaz. vol. 160; p. 1103.
Fromhold, Alexander, Rutherford, N. J. Transom-lifter, &c. No. 977,291; Nov. 29; Sp. p. 7078; Gaz. vol. 160; p. 1204.
Fromhold, Alexander, Rutherford, N. J. Sheet-metal window. No. 977,611; Dec. 6; Sp. p. 445; Gaz. vol. 161; p. 66.
Fromm, John F., Rochester, N. Y. Fish and fruit net. No. 956,803; May 3; Sp. p. 650; Gaz. vol. 154; p. 103.
Frommer, Rudolf, Budapest, Austria-Hungary. Connection of helical springs. No. 949,466; Feb. 15; Sp. p. 3541; Gaz. vol. 151; p. 617.
Frommer, Rudolf, Budapest, Austria-Hungary. Locking device for firearms. No. 949,467; Feb. 15; Sp. p. 3542; Gaz. vol. 151; p. 618.
Frommer, Rudolf, Budapest, Austria-Hungary. Firearm for hand and automatic loading. No. 952,896; Mar. 22; Sp. p. 4979; Gaz. vol. 152; p. 895.
Frommer, Rudolf, Budapest, Austria-Hungary. Automatic firearm. No. 959,002; May 24; Sp. p. 5621; Gaz. vol. 154; p. 944.
Frommer, Rudolf, Budapest, Austria-Hungary. Automatic firearm. No. 960,880; June 7; Sp. p. 1291; Gaz. vol. 155; p. 216.
Frommer, Rudolph, Budapest, Austria-Hungary. Greasing device for the ammunition of firearms. No. 974,784; Nov. 8; Sp. p. 1602; Gaz. vol. 160; p. 269.
Frömsdorf, Robert, Leipzig-Eutritzsch, assignor to Ludwig Hupfeld Aktiengesellschaft, Leipzig, Germany. Mechanical musical instrument. No. 947,899; Feb. 1; Sp. p. 260; Gaz. vol. 151; p. 42.
Frömsdorf, Robert, Leipzig-Eutritzsch, assignor to Ludwig Hupfeld Aktiengesellschaft, Leipzig, Germany. Pneumatically-operated string instrument. No. 964,013; July 12; Sp. p. 2183; Gaz. vol. 156; p. 358.
Froslid, Anton S., assignor to Silkworth-Froslid Machinery Company, Portland, Oreg. Lumber edger, trimmer, and lath mill. No. 980,147; Dec. 27; Sp. p. 5923; Gaz. vol. 161; p. 1011.
Fross, George W., Cleveland, Ohio. Hod. No. 957,604; May 10; Sp. p. 2341; Gaz. vol. 154; p. 407.
Frost, Anton. (See Printz and Frost.)
Frost, Charles L., Grand Rapids, Mich. Garment-supporting slide for wardrobes. No. 956,696; May 3; Sp. p. 433; Gaz. vol. 154; p. 68.
Frost, Horatio T., Vivian, S. D. Mold for ventilated concrete walls. No. 965,805; July 26; Sp. p. 6071; Gaz. vol. 156; p. 1029.
Frost, John B., assignor of one-half to F. Wenke, Buckley, Wash. Can-antibuckling press. No. 957,323; May 10; Sp. p. 1790; Gaz. vol. 154; p. 313.
Frost, Joseph W., Washington, D. C. Automatic thermostat-adjuster. No. 950,548; Mar. 1; Sp. p. 182; Gaz. vol. 152; p. 31.
Frost, Lorenzo S., Cambridge, Mass. Soldering-iron. No. 956,070; Apr. 26; Sp. p. 5159; Gaz. vol. 153; p. 909.
Frost Manufacturing Company, The. (See Frost, Walter J., assignor.)
Frost Manufacturing Company, The. (See Henkel, Adolph W., assignor.)
Frost, Nannie V. (See Jordan, William W., assignor.)
Frost, Nathaniel, assignor to American Foundry & Furnace Co., Bloomington, Ill. Urinal. No. 966,189; Aug. 2; Sp. p. 746; Gaz. vol. 157; p. 118.
Frost, Parmenas F., New York, N. Y. Post and wire-fence construction. No. 962,632; June 28; Sp. p. 5063; Gaz. vol. 155; p. 885.
Frost Prevention Company, The. (See Bolton, Joseph P., assignor.)
Frost, Walter E., assignor of three-fourths to E. G. Learn, Auburn, and one-fourth to J. M. Scannell, Lewiston, Me. Heating device. No. 954,428; Apr. 12; Sp. p. 1543; Gaz. vol. 153; p. 284.
Frost, Walter J., Kenosha, Wis. Valve-operating mechanism for flush-tanks, &c. No. 964,098; July 12; Sp. p. 2362; Gaz. vol. 156; p. 388.

Alphabetical list of patentees—Continued.

Frost, Walter J., assignor to The Frost Manufacturing Company, Kenosha, Wis. Internal clamp. No. 969,098; Aug. 30; Sp. p. 6926; Gaz. vol. 157; p. 1206.

Frost, Warren H., and J. J. Nix, Los Angeles, Cal.; said Nix assignor to said Frost. Production of carbon-black together with combustible gas. No. 977,000; Nov. 29; Sp. p. 6468; Gaz. vol. 160; p. 1103.

Frost, William, London, England. Vulcanizing apparatus. No. 951,881; Mar. 15; Sp. p. 2900; Gaz. vol. 152; p. 525.

Frost, William M., Eureka, Mont. Electric insect-destroyer. No. 974,785; Nov. 8; Sp. p. 1603; Gaz. vol. 160; p. 270.

Frumviller, Frank A., Detroit, Mich. Pruning-knife. No. 978,574; Dec. 13; Sp. p. 2520; Gaz. vol. 161; p. 430.

Fruwirth, Arthur, New York, N. Y. Positioning and focusing indicator for enlarging and reducing cameras. No. 971,367; Sept. 27; Sp. p. 4720; Gaz. vol. 158; p. 824.

Fry, Charley, Denver, Colo. Pounder. No. 956,697; May 3; Sp. p. 435; Gaz. vol. 154; p. 69.

Fry, George W., Morgantown, W. Va. Grinding-chuck. No. 975,408; Nov. 15; Sp. p. 2983; Gaz. vol. 160; p. 507.

Fry, George W., Morgantown, W. Va. Mold for glassware. No. 975,409; Nov. 15; Sp. p. 2984; Gaz. vol. 160; p. 507.

Fry, Henry C., *et al.* (See Strub, Albert, assignor.)

Fry, Henry C., Rochester, Pa. Manufacture of glassware. No. 959,500; May 31; Sp. p. 6663; Gaz. vol. 154; p. 1135.

Fry, Lee E., assignor to N. B. Douglass, San Francisco, Cal. Wall-bed. No. 966,898; Aug. 9; Sp. p. 2314; Gaz. vol. 157; p. 379.

Fry, William H., Des Moines, Iowa. Sliding-door fastener. No. 953,905; Apr. 5; Sp. p. 438; Gaz. vol. 153; p. 80.

Frye, Charles E., Laconia, N. H. Door-hanger. No. 949,067; Feb. 15; Sp. p. 2714; Gaz. vol. 151; p. 482.

Frye, Charles R., East St. Louis, Ill. Device to fasten grain-doors in freight-cars. No. 972,688; Oct. 11; Sp. p. 2562; Gaz. vol. 159; p. 436.

Frye, Charles W., assignor of one-third to A. H. Cochran, Sr., and one-third to J. E. Turner, Atlanta, Ga. Air-brake. No. 955,788; Apr. 19; Sp. p. 4520; Gaz. vol. 153; p. 781.

Frye, George C. (See Tremblay, Joseph, assignor.)

Frye, John C. F. (See Wise, Joseph C., assignor.)

Frye, Lee E., San Francisco, Cal. Bed. No. 973,108; Oct. 18; Sp. p. 3518; Gaz. vol. 159; p. 608.

Frye, Theodore C., and C. E. Magnusson, Seattle, Wash. Preparing seaweeds for food. No. 965,382; July 26; Sp. p. 5141; Gaz. vol. 156; p. 882.

Fryer, George G., Syracuse, N. Y. Animal-feeder. No. 964,906; July 19; Sp. p. 4165; Gaz. vol. 156; p. 694.

Fryer, George G., and E. Pfleiderer, Syracuse, N. Y. Locomotor for use in conduits. No. 976,162; Nov. 22; Sp. p. 4559; Gaz. vol. 160; p. 788.

Fryer, J. W. (See Flitcraft, John M., assignor.)

Fryett, Rollo B., and H. H. Botten, Bremerton, Wash. Hydraulic indicator. No. 954,727; Apr. 12; Sp. p. 2230; Gaz. vol. 153; p. 387.

Fryette, Harrison H., Chicago, Ill. Articulated mounting for bones of a body. No. 979,147; Dec. 20; Sp. p. 3773; Gaz. vol. 161; p. 653.

Fryman, Nicholas, Bowdon, N. D. Rack for hay-gatherers. No. 952,670; Mar. 22; Sp. p. 4509; Gaz. vol. 152; p. 819.

Fuchs, Emiel R. (See Kohn, Jacob, assignor.)

Fuchs, Emiel R., New York, N. Y. Door-securer. No. 977,182; Nov. 29; Sp. p. 6878; Gaz. vol. 160; p. 1167.

Fuchs, Emiel R., New York, N. Y. Door-securing device. No. 977,183; Nov. 29; Sp. p. 6880; Gaz. vol. 160; p. 1168.

Fuchs, Emiel R., New York, N. Y. Door-securer. No. 977,184; Nov. 29; Sp. p. 6882; Gaz. vol. 160; p. 1168.

Fuchs, Ernesto, Guadalajara, Mexico. Tide and wave power. No. 968,930; Aug. 30; Sp. p. 6592; Gaz. vol. 157; p. 1148.

Fuchs, Heinrich, Friedrichsfelde, near Berlin, Germany. Anchor. No. 945,269; Jan. 4; Sp. p. 550; Gaz. vol. 150; p. 90.

Fuchs, Heinrich, Friedrichsfelde, near Berlin, Germany. Ground-anchor. No. 954,510; Apr. 12; Sp. p. 1743; Gaz. vol. 153; p. 313.

Fuchs, Henry, Allegheny, Pa. Invalid-rest. No. 969,099; Aug. 30; Sp. p. 6926; Gaz. vol. 157; p. 1206.

Fuchs, Nathan, assignor of one-half to H. D. Kirk, Chicago, Ill. Stethoscope. No. 965,174; July 26; Sp. p. 4691; Gaz. vol. 156; p. 813.

Fuchs, William. (See Lund, Olaf H., assignor.)

Fudge, Jacob O. (See Riggs, Albert W., assignor.)

Fuel Saving Company. (See Smith, Solomon P., assignor.)

Fuerth, William G., assignor to Equilibrator Company, Newark, N. J. Ink. No. 970,439; Sept. 13; Sp. p. 2743; Gaz. vol. 158; p. 462.

Fuessel, Frank W., Hicksville, N. Y. Combined hobby-horse and vehicle. No. 956,331; Apr. 26; Sp. p. 5740; Gaz. vol. 153; p. 999.

Fuest, Joe. (See Clark, Otis O., assignor.)

Fugate, Jefferson D., Morrill, Nebr. Combined shipping-tag and invoice-holder. No. 977,445; Dec. 6; Sp. p. 37; Gaz. vol. 161; p. 9.

Fugazzi, Constantino, West Philadelphia, Pa. Safety appliance for ships. No. 972,180; Oct. 11; Sp. p. 1454; Gaz. vol. 159; p. 260.

Fugler, Daniel W. (See Pipes and Fugler.)

Fuhrmann, Warren, Newark, N. J. Miter-box. No. 976,730; Nov. 22; Sp. p. 5811; Gaz. vol. 160; p. 984.

Fujita, Tamaki, Los Angeles, Cal. Universal photometer. No. 961,852; June 21; Sp. p. 3348; Gaz. vol. 155; p. 595.

Fuld, Manes E., Baltimore, Md. Electric-battery cell. No. 960,222; May 31; Sp. p. 8203; Gaz. vol. 154; p. 1381.

Fulda, Lamartine R., San Francisco, Cal. Propeller. No. 970,319; Sept. 13; Sp. p. 2514; Gaz. vol. 158; p. 424.

Fulford, Charles F., Rochester, N. Y. Bail. No. 978,445; Dec. 13; Sp. p. 2217; Gaz. vol. 161; p. 384.

Fulghum, Thomas E., assignor to The National Orchard Heater Co., Grand Junction, Colo. Orchard-heater. No. 975,611; Nov. 15; Sp. p. 3413; Gaz. vol. 160; p. 579.

Fulgora, Robert, F. S. and W. Murray, New York, N. Y. Amusement apparatus. No. 961,947; June 21; Sp. p. 3549; Gaz. vol. 155; p. 626.

Fulkerson, Ambus M., Sac and Fox Agency, Okla. Ratchet-wrench. No. 970,320; Sept. 13; Sp. p. 2516; Gaz. vol. 158; p. 424.

Fullam, Leighton G., Ludlow, Vt. Chair. No. 945,510; Jan. 4; Sp. p. 1091; Gaz. vol. 150; p. 168.

Fullenkamp, Frank, Fort Recovery, Ohio. Mold. No. 974,372; Nov. 1; Sp. p. 667; Gaz. vol. 160; p. 100.

Fuller, Albert. (See Hiering and Fuller.)

Fuller, Alvarado M., Topeka, Kans. Submarine torpedo-boat. No. 970,210; Sept. 13; Sp. p. 2288; Gaz. vol. 158; p. 387.

Fuller, Andrew D., Wakefield, Mass. Closet. No. 951,604; Mar. 8; Sp. p. 2307; Gaz. vol. 152; p. 401.

Fuller, Benjamin D., J. R. Reilly, Lakewood, and T. A. Reilly, Cleveland, Ohio. Power-transmission mechanism. No. 970,440; Sept. 13; Sp. p. 2745; Gaz. vol. 158; p. 462.

Fuller, Charles, assignor of one-third to N. S. Croker and one-third to A. V. Boucher, Montreal, Quebec, Canada. Coffee-percolator. No. 956,332; Apr. 26; Sp. p. 5742; Gaz. vol. 153; p. 999.

Fuller, Edgar L., Everett, Mass. Mattress-cover. No. 948,684; Feb. 8; Sp. p. 1917; Gaz. vol. 151; p. 329.

Fuller, Ernest M., Grand Rapids, Mich. Ratchet die-stock. No. 963,705; July 5; Sp. p. 1488; Gaz. vol. 156; p. 231.

Fuller, Eugene, Providence, R. I. Rubber sole-protector for boots and shoes. No. 955,509; Apr. 19; Sp. p. 3909; Gaz. vol. 153; p. 686.

Fuller, Frank E. (See Samuel, Walter A., assignor.)

Fuller, Frederick R., Worcester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Clicking-press. No. 974,373; Nov. 1; Sp. p. 668; Gaz. vol. 160; p. 100.

Fuller, George and L., Bow, London, England. Apparatus for electrically heating running water. No. 957,667; May 10; Sp. p. 2483; Gaz. vol. 154; p. 429.

Fuller, George H., *et al.* (See McMaster, Abraham L., assignor.)

Fuller, George H. (See Street, James M., assignor.)

Fuller, Henry W., assignor of one-fourth to N. Haydon, one-fourth to A. E. Trimble, and one-fourth to O. F. Heer, Hachita, N. Mex. Drill-chuck. No. 964,416; July 12; Sp. p. 2983; Gaz. vol. 156; p. 492.

Fuller, James, Clinton, Mass. Friction let-off. No. 949,268; Feb. 15; Sp. p. 3123; Gaz. vol. 151; p. 550.

Fuller, John L., Schaghticoke, N. Y. Hydrant and valve therefor. No. 979,941; Dec. 27; Sp. p. 5460; Gaz. vol. 161; p. 943.

Fuller, Lawson M., assignor to Velie Motor Vehicle Company, Moline, Ill. Air-intake for carbureters. No. 971,034; Sept. 27; Sp. p. 4038; Gaz. vol. 158; p. 715.

Fuller, Lawson M., assignor to Velie Motor Vehicle Company, Moline, Ill. Sight-feed. No. 975,127; Nov. 8; Sp. p. 2386; Gaz. vol. 160; p. 387.

Fuller Manufacturing Company, The. (See Cole, A., assignor.)

Fuller, Rodolphus, Detroit, Mich. Motor-vehicle. No. 948,317; Feb. 8; Sp. p. 1120; Gaz. vol. 151; p. 205.

Fuller, Russell B., Evansville, Ind. Automatic machinery for making basket-covers. No. 947,324; Jan. 25; Sp. p. 5154; Gaz. vol. 150; p. 870.

Fuller, Thomas J., McRae, Ga. Planter. No. 950,019; Feb. 22; Sp. p. 4789; Gaz. vol. 151; p. 842.

Fuller, Valancey M., New York, N. Y. Holder. No. 965,512; July 26; Sp. p. 5436; Gaz. vol. 156; p. 928.

Fuller, William C., New York, N. Y., assignor, by mesne assignments, to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-cutter. No. 947,100; Jan. 18; Sp. p. 4642; Gaz. vol. 150; p. 765.

Fuller, William C., assignor of one-half to H. T. Saxton, Philadelphia, Pa. Paper-bag machine. No. 949,468; Feb. 15; Sp. p. 3543; Gaz. vol. 151; p. 618.

Fuller, William C., assignor of one-half to H. T. Saxton, Philadelphia, Pa. Paper-bag machine. No. 949,469; Feb. 15; Sp. p. 3552; Gaz. vol. 151; p. 619.

Fullmer, Benjamin, and A. H. Powell, Alpine City, Utah. Apple cutter and corer. No. 975,410; Nov. 15; Sp. p. 2985; Gaz. vol. 160; p. 508.

Fulloni, Roberto, Rome, Italy. Pigment with basis of calcium cyanamid and making same. No. 957,153; May 3; Sp. p. 1384; Gaz. vol. 154; p. 222.

Fülöp, Frank, and S. Nagy, Hooversville, Pa. Milk-can lock. No. 973,271; Oct. 18; Sp. p. 3886; Gaz. vol. 159; p. 665.

Alphabetical list of patentees—Continued.

Fulton Chemical Company. (See Ellis, Carleton, assignor.)
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, Creed M., *et al.* (See Christmas, William W., assignor.)
Fulton, Louis B., assignor to The Chaplin-Fulton Manufacturing Company, Pittsburg, Pa. Feed-water regulator. No. 959,334; May 24; Sp. p. 6308; Gaz. vol. 154; p. 1055.
Fulton, Richard T. (See Burdick, Fulton, and Williams.)
Fulton, Robert B., Red Cloud, Nebr. Loader and stacker. No. 975,849; Nov. 15; Sp. p. 3903; Gaz. vol. 160; p. 659.
Fulton, Weston M., Knoxville, Tenn. Flexible corrugated-metal wall for collapsible and expansible vessels. No. 979,460; Dec. 27; Sp. p. 4407; Gaz. vol. 161; p. 780.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Corrugated metal wall for collapsible expansible vessels. No. 947,229; Jan. 25; Sp. p. 4906; Gaz. vol. 150; p. 836.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Making collapsible and expansible corrugated walls. No. 962,951; June 28; Sp. p. 5682; Gaz. vol. 155; p. 996.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Flexible corrugated-metal wall. No. 967,010; Aug. 9; Sp. p. 2534; Gaz. vol. 157; p. 417.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Making tubular metal walls. No. 971,838; Oct. 4; Sp. p. 684; Gaz. vol. 159; p. 120.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Collapsible and expansible vessel. No. 975,519; Nov. 15; Sp. p. 3215; Gaz. vol. 160; p. 548.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Flexible corrugated-metal wall for collapsible and expansible vessels. No. 976,060; Nov. 15; Sp. p. 4308; Gaz. vol. 160; p. 731.
Funcheon, Daniel C., Denver, Colo. Flying-machine. No. 953,198; Mar. 29; Sp. p. 5638; Gaz. vol. 152; p. 1025.
Funcheon, Daniel C., and C. E. Olsen, Denver, Colo. Railway-tie. No. 950,322; Feb. 22; Sp. p. 5387; Gaz. vol. 151; p. 946.
Funk, Charles L., assignor of one-half to J. A. Britz, Buffalo, N. Y. Horseshoe. No. 947,327; Jan. 25; Sp. p. 5160; Gaz. vol. 150; p. 871.
Funk, Daniel D., Springfield, Ohio. Hand cultivator and planter. No. 946,598; Jan. 18; Sp. p. 3544; Gaz. vol. 150; p. 597.
Funk, Edward, assignor to American Tire Drill Company, Cincinnati, Ohio. Boring and bolt-inserting machine for tires and fellies. No. 956,071; Apr. 26; Sp. p. 5162; Gaz. vol. 153; p. 910.
Funk, Henry W., Hagerstown, Md. Ironing-board. No. 972,356; Oct. 11; Sp. p. 1823; Gaz. vol. 159; p. 320.
Funk, Levi L., Chicago, Ill. Fan. No. 966,190; Aug. 2; Sp. p. 748; Gaz. vol. 157; p. 118.
Funk, Lewis A., Jeromesville, Ohio. Manure-spreader. No. 971,436; Sept. 27; Sp. p. 4837; Gaz. vol. 158; p. 847.
Funk, Louis E., Chicago, Ill. Tongs. No. 973,862; Oct. 25; Sp. p. 5131; Gaz. vol. 159; p. 891.
Funke, Anton, Westig, Germany, assignor to The Papyrus Artificial Paper Manufacturing Company, Hoboken, N. J. Insulation-bag for conduits. No. 967,360; Aug. 16; Sp. p. 3258; Gaz. vol. 157; p. 565.
Funke, Anton, Westig, Germany, assignor to The Papyrus Artificial Paper Manufacturing Company, Hoboken, N. J. Machine for spinning paper threads. No. 974,132; Nov. 1; Sp. p. 53; Gaz. vol. 160; p. 12.
Funke, Anton and J., New York, N. Y., assignors to The Papyrus Artificial Paper Manufacturing Co., Hoboken, N. J. Craping paper. No. 962,505; June 28; Sp. p. 4786; Gaz. vol. 155; p. 843.
Funke, Josef. (See Funke, Anton and J.)
Funke, Robert C., Philadelphia, Pa. Hammock-stand. No. 950,070; Feb. 22; Sp. p. 4874; Gaz. vol. 151; p. 857.
Funkhouser, Jacob O., Hagerstown, Md. Electric coupler-action for organs. No. 948,010; Feb. 1; Sp. p. 475; Gaz. vol. 151; p. 77.
Furbeck, George H. (See Stewart, Lemuel N., assignor.)
Furber, Frederick M., Beachmont, Mass. Milk-bottle holder. No. 952,107; Mar. 15; Sp. p. 3329; Gaz. vol. 152; p. 599.
Furbos, Frank R., and B. T. Lumpkin, Rock Island, Ill. Planter. No. 953,604; Mar. 29; Sp. p. 6507; Gaz. vol. 152; p. 1163.
Furbush, Albourne F., Cliftondale, Mass., assignor to himself, and C. W. Hale, Hartford, Conn. Electrical switch. No. 974,106; Oct. 25; Sp. p. 5629; Gaz. vol. 159; p. 976.
Furbush, Frank L., Graniteville, Mass. Squeeze-roll for washing and other machines. No. 963,540; July 5; Sp. p. 1159; Gaz. vol. 156; p. 177.
Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Wool-washer. No. 954,728; Apr. 12; Sp. p. 2234; Gaz. vol. 153; p. 388.
Furbush, Levi, Woburn, assignor to Merrimac Chemical Company, Boston, Mass. Protective device for carboy-necks. No. 950,720; Mar. 1; Sp. p. 565; Gaz. vol. 152; p. 88.
Furer, Thomas. (See Wettergren and Furer.)
Furey, Patrick L., Haverhill, Mass. Cue-guard. No. 953,167; Mar. 29; Sp. p. 5568; Gaz. vol. 152; p. 1015.
Furlong, Martin J., New Orleans, La. Means for unloading ships. No. 957,878; May 17; Sp. p. 2924; Gaz. vol. 154; p. 529.
Furlong, Patrick M., New York, N. Y. Plate-holder for use in bending electrotype-plates. No. 956,521; May 3; Sp. p. 24; Gaz. vol. 154; p. 7.
Furlong, Patrick M., New York, N. Y. Bending electrotype-plates. No. 956,522; May 3; Sp. p. 25; Gaz. vol. 154; p. 7.
Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Means for tightening plunger-cables. No. 954,027; Apr. 5; Sp. p. 690; Gaz. vol. 153; p. 121.
Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Plunger-elevator. No. 955,959; Apr. 26; Sp. p. 4918; Gaz. vol. 153; p. 869.
Furnace Patent Company, The. (See Wedge, Utley, assignor.)
Furnas, Brown & Plummer. (See Donaldson and Furnas, assignors.)
Furnas, Vincent E. (See Donaldson and Furnas.)
Furnberg, Christian C., Osgood, N. D. Farm-hoist. No. 965,806; July 26; Sp. p. 6073; Gaz. vol. 156; p. 1029.
Furney, Elliott E., assignor of one-half to J. F. O'Neil, St. Louis, Mo. Propeller. No. 962,136; June 21; Sp. p. 3980; Gaz. vol. 155; p. 692.
Furowicz, Aleksander, Fastov, Russia. Centrifugal mixing apparatus. No. 954,951; Apr. 12; Sp. p. 2750; Gaz. vol. 153; p. 465.
Furrow, George W., Troy, Ohio. Hood for emery-wheels. No. 956,762; May 3; Sp. p. 563; Gaz. vol. 154; p. 90.
Furst, John K., assignor to Pennsylvania Engineering Works, New Castle, Pa. Dumping-car. No. 947,197; Jan. 18; Sp. p. 4824; Gaz. vol. 150; p. 795.
Fusch, Gustav, Hanover, Germany, assignor to Schutte and Koerting Company, Philadelphia, Pa. Injector. No. 972,846; Oct. 18; Sp. p. 2903; Gaz. vol. 159; p. 516.
Fuss, Max, Berlin, Germany, assignor to General Electric Company. Safety-switch. No. 953,415; Mar. 29; Sp. p. 6108; Gaz. vol. 152; p. 1097.
Fussenegger, Ernst. (See Julius and Fussenegger.)
Fuston, Walter J., Waxahachie, Tex. Gate-latch. No. 951,109; Mar. 8; Sp. p. 1310; Gaz. vol. 152; p. 240.
Fuzy, Paul, Pittsburg, Pa. Antirefillable bottle. No. 964,858; July 19; Sp. p. 4064; Gaz. vol. 156; p. 677.
Fylling, Ole, Crookston, Minn. Convertible tool. No. 978,283; Dec. 13; Sp. p. 1882; Gaz. vol. 161; p. 330.
Fynn, Valère A., London, England. Alternate-current motor. No. 946,502; Jan. 11; Sp. p. 3364; Gaz. vol. 150; p. 540.
Fynn, Valère A., London, England. Single-phase commutator-motor. No. 946,503; Jan. 11; Sp. p. 3369; Gaz. vol. 150; p. 540.
Fynn, Valère A., London, England. Alternate-current motor and generator. No. 946,504; Jan. 11; Sp. p. 3373; Gaz. vol. 150; p. 541.
Fynn, Valère A., London, England. Alternating-current motor. No. 946,505; Jan. 11; Sp. p. 3375; Gaz. vol. 150; p. 541.
Fynn, Valère A., London, England. Single-phase alternate-current motor and generator. No. 956,845; May 3; Sp. p. 748; Gaz. vol. 154; p. 119.
Fynn, Valère A., London, England. Alternating-current motor. No. 956,893; May 3; Sp. p. 857; Gaz. vol. 154; p. 136.
Fynn, Valère A., London, England. Alternating-current motor. No. 956,894; May 3; Sp. p. 858; Gaz. vol. 154; p. 137.
Fynn, Valère A., London, England. Alternating-current motor. No. 957,505; May 10; Sp. p. 2156; Gaz. vol. 154; p. 373.
Fynn, Valère A., London, England. Alternating-current motor. No. 957,668; May 10; Sp. p. 2486; Gaz. vol. 154; p. 430.
Fynn, Valère A., London, England. Alternating-current motor. No. 960,881; June 7; Sp. p. 1292; Gaz. vol. 155; p. 216.
Fynn, Valère A., London, England. Polyphase commutator-motor. No. 960,882; June 7; Sp. p. 1294; Gaz. vol. 155; p. 216.
Fynn, Valère A., London England. Polyphase commutator-motor. No. 960,883; June 7; Sp. p. 1296; Gaz. vol. 155; p. 217.
Fynn, Valère A., London, England. Alternate-current commutator-motor. No. 960,884; June 7; Sp. p. 1299; Gaz. vol. 155; p. 217.
Fynn, Valère A., London, England. Alternating-current motor. No. 962,334; June 21; Sp. p. 4393; Gaz. vol. 155; p. 758.
Fynn, Valère A., London, England. Alternating-current motor. No. 962,335; June 21; Sp. p. 4401; Gaz. vol. 155; p. 759.
Fynn, Valère A., London, England. Alternating-current motor. No. 962,336; June 21; Sp. p. 4404; Gaz. vol. 155; p. 759.
Fynn, Valère A., London, England. Alternating-current motor. No. 962,337; June 21; Sp. p. 4410; Gaz. vol. 155; p. 760.
Fynn, Valère A., London, England. Alternating-current motor. No. 967,361; Aug. 16; Sp. p. 3259; Gaz. vol. 157; p. 565.

Fynn, Valère A., London, England. Alternating-current motor. No. 967,362; Aug. 16; Sp. p. 3268; Gaz. vol. 157; p. 566.
Fynn, Valère A., London, England. Alternating-current motor. No. 967,363; Aug. 16; Sp. p. 3270; Gaz. vol. 157; p. 566.
Fynn, Valère A., London, England, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor. No. 952,566; Mar. 22; Sp. p. 4270; Gaz. vol. 152; p. 783.
Fyrberg, Andrew, Hopkinton, Mass. Firearm. No. 945,320; Jan. 4; Sp. p. 687; Gaz. vol. 150; p. 107.
Fyrberg, Andrew, Hopkinton, Mass. Revolver. No. 975,685; Nov. 15; Sp. p. 3583; Gaz. vol. 160; p. 603.
G. Drouve Company, The. (See Cibulas, Stephen E., assignor.)
G. Sauerbrey Maschinenfabrik, Aktiengesellschaft. (See Sauerbrei, Richard, assignor.)
G. A. Bisler. (See Coryell, George N., assignor.)
G. & H. Manufacturing Company. (See Gallagher, Richard W., assignor.)
G. M. Parks Company. (See Parks, Frederick W., assignor.)
G. M. Thompson Railway Switch Company, The. (See Thompson, Guy M., assignor.)
Gaar, William J. C., Braxton, Miss. Churn. No. 950,152; Feb. 22; Sp. p. 5032; Gaz. vol. 151; p. 885.
Gaara, Halvor, New York, N. Y. Paper-making machine. No. 951,183; Mar. 8; Sp. p. 1455; Gaz. vol. 152; p. 263.
Gaara, Halvor, New York, N. Y. Cylinder-machine. No. 962,208; June 21; Sp. p. 4129; Gaz. vol. 155; p. 717.
Gaara, Halvor, Bö, Norway. Cylinder-machine for straining wood-pulp and for similar purposes. No. 953,744; Apr. 5; Sp. p. 125; Gaz. vol. 153; p. 24.
Gabbard, Thomas L., Hyden, Ky. Combined ash-pan and blower. No. 947,900; Feb. 1; Sp. p. 262; Gaz. vol. 151; p. 43.
Gabbe Friedman Company. (See Friedman, Samuel N., assignor.)
Gabel, Charles, Hawkeye, Iowa. Combined mop-head and wringer. No. 959,130; May 24; Sp. p. 5891; Gaz. vol. 154; p. 987.
Gabel, Charles, Hawkeye, Iowa. Mop-head. No. 959,131; May 24; Sp. p. 5892; Gaz. vol. 154; p. 987.
Gabel, Charles, Hawkeye, Iowa. Veterinary obstetrical instrument. No. 960,885; June 7; Sp. p. 1301; Gaz. vol. 155; p. 218.
Gabel, Charles, Hawkeye, Iowa. Corn-popper. No. 974,048; Oct. 25; Sp. p. 5521; Gaz. vol. 159; p. 957.
Gabel, George, Fairpoint, Ohio. Whip-socket lock. No. 959,501; May 31; Sp. p. 6665; Gaz. vol. 154; p. 1136.
Gabert, Morris. (See Weidemann, Reinhold, assignor.)
Gabioud, Joseph A., Chicago, Ill. Trousers stretcher and hanger. No. 952,190; Mar. 15; Sp. p. 3478; Gaz. vol. 152; p. 626.
Gable, John E., Evanston, Ill. Automobile. No. 949,422; Feb. 15; Sp. p. 3461; Gaz. vol. 151; p. 604.
Gabriel, Charles R., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Mooring for mine-anchors, &c. No. 947,230; Jan. 25; Sp. p. 4909; Gaz. vol. 150; p. 837.
Gabriel, George A., assignor to Bleach & Caustic Process Company, New York, N. Y. Treating electrolytic and similar solutions. No. 959,730; May 31; Sp. p. 7135; Gaz. vol. 154; p. 1211.
Gabrielson, Carl, assignor to L. C. Smith & Bros. Typewriter Company, Syracuse, N. Y. Ribbon mechanism for type-writing machines. No. 958,388; May 17; Sp. p. 4345; Gaz. vol. 154; p. 709.
Gabrielson, Carl, assignor to L. C. Smith & Bros. Typewriter Company, Syracuse, N. Y. Paper-finger for type-writing machines. No. 959,850; May 31; Sp. p. 7397; Gaz. vol. 154; p. 1253.
Gabrielson, Carl, assignor to L. C. Smith and Bros. Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 964,638; July 19; Sp. p. 3506; Gaz. vol. 156; p. 600.
Gabrielson, Carl, assignor to L. C. Smith and Bros. Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 967,180; Aug. 16; Sp. p. 2904; Gaz. vol. 157; p. 503.
Gabrielson, Carl, and F. C. Stanley, assignors to L. C. Smith & Bros. Typewriter Company, Syracuse, N. Y. Platen-brake for type-writing machines. No. 961,767; June 21; Sp. p. 3161; Gaz. vol. 155; p. 567.
Gadd, Charles J. (See Carney and Gadd.)
Gaddis, John W., Princeton, Ind. Lifting-jack. No. 974,049; Oct. 25; Sp. p. 5522; Gaz. vol. 159; p. 958.
Gadebusch, Gustav, *et al.* (See Streich, Robert, assignor.)
Gadebusch, Richard, *et al.* (See Streich, Robert, assignor.)
Gadsden, William B., Montgomery, Ala. Siphon. No. 947,231; Jan. 25; Sp. p. 4912; Gaz. vol. 150; p. 837.
Gaede, John W., Cleveland, Ohio. Saw-set. No. 964,417; July 12; Sp. p. 2984; Gaz. vol. 156; p. 493.
Gaertner, John A., Boston, Mass. Foot and leg rest. No. 971,437; Sept. 27; Sp. p. 4839; Gaz. vol. 158; p. 847.
Gaeth, Paul, Cleveland, Ohio. Gearing. No. 957,763; May 10; Sp. p. 2681; Gaz. vol. 154; p. 461.
Gaethje, William, South Rock Island, Ill. Flower-stand. No. 976,061; Nov. 15; Sp. p. 4310; Gaz. vol. 160; p. 731.
Gaffers, Herman B., Watervliet, N. Y. Step-ladder. No. 950,323; Feb. 22; Sp. p. 5389; Gaz. vol. 151; p. 946.
Gage, Burt O., assignor to Warren Steam Pump Company, Warren, Mass. Pump. No. 969,616; Sept. 6; Sp. p. 994; Gaz. vol. 158; p. 158.
Gage, Burt O., Warren, Mass., assignor to Warren Steam Pump Company. Pumping-engine. No. 972,357; Oct. 11; Sp. p. 1824; Gaz. vol. 159; p. 320.
Gage, Edwin L., Toledo, Ohio. Truck-scale. No. 955,640; Apr. 19; Sp. p. 4207; Gaz. vol. 153; p. 731.
Gage, H. R. (See Morris, Homer, assignor.)
Gage, Mancil, Big Sandy, Tex. Fence-post. No. 948,607; Feb. 8; Sp. p. 1751; Gaz. vol. 151; p. 303.
Gager, Lee E., Mobile, Ala., assignor of five-sixteenths to L. L. Pendleton, U. S. Army, one-eighth to P. Calagoz, and one-eighth to W. A. Jordan, Mobile, Ala. Speaking-tube attachment. No. 945,929; Jan. 11; Sp. p. 2062; Gaz. vol. 150; p. 343.
Gaggs, Thomas, assignor to T. H. Sidney, Chicago, Ill. Reflector for store-windows and the like. No. 974,374; Nov. 1; Sp. p. 671; Gaz. vol. 160; p. 101.
Gagnon, Elisee. (See Saucier, Henry L., assignor.)
Gagnon, Frank A., Watertown, N. Y. Velocipede. No. 980,092; Dec. 27; Sp. p. 5788; Gaz. vol. 161; p. 992.
Gagnon, Joseph, Fall River, Mass. Shuttle. No. 971,187; Sept. 27; Sp. p. 4366; Gaz. vol. 158; p. 766.
Gaide, Albert, Chicago, Ill. Safety system for refrigerating apparatus. No. 971,984; Oct. 4; Sp. p. 1053; Gaz. vol. 159; p. 176.
Gaiennie, Alphonse F. (See Deming and Gaiennie.)
Gail, Charles H., Kenosha, Wis. Wire fabric. No. 946,120; Jan. 11; Sp. p. 2442; Gaz. vol. 150; p. 406.
Gail, John F., Kenosha, Wis. Metallic-fabric-assembling machine. No. 967,011; Aug. 9; Sp. p. 2537; Gaz. vol. 157; p. 417.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Bed construction. No. 954,620; Apr. 12; Sp. p. 1973; Gaz. vol. 153; p. 350.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Buffing-machine. No. 957,198; May 10; Sp. p. 1495; Gaz. vol. 154; p. 267.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Machine for bending tubes. No. 957,199; May 10; Sp. p. 1503; Gaz. vol. 154; p. 267.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Tube-bending machine. No. 957,200; May 10; Sp. p. 1506; Gaz. vol. 154; p. 268.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Buffing machinery. No. 957,201; May 10; Sp. p. 1510; Gaz. vol. 154; p. 268.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Bending machinery. No. 957,202; May 10; Sp. p. 1518; Gaz. vol. 154; p. 269.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Link-forming machine. No. 957,203; May 10; Sp. p. 1523; Gaz. vol. 154; p. 269.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Buffing-machine. No. 959,502; May 31; Sp. p. 6667; Gaz. vol. 154; p. 1136.
Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Fabric-chain machine. No. 975,850; Nov. 15; Sp. p. 3907; Gaz. vol. 160; p. 659.
Gailey, Stewart C. (See Holtmann, Charles F., assignor.)
Gailor, William H., Saratoga Springs, N. Y. Road-oiler. No. 962,209; June 21; Sp. p. 4130; Gaz. vol. 155; p. 717.
Gaines, John. (See Kappler and Gaines.)
Gair, Robert, Brooklyn, N. Y. Display-card. No. 977,292; Nov. 29; Sp. p. 7079; Gaz. vol. 160; p. 1204.
Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Shaving set. No. 953,948; Apr. 5; Sp. p. 521; Gaz. vol. 153; p. 95.
Gaither, George M., Baltimore, Md. Sewing-table for bookbinders. No. 956,333; Apr. 26; Sp. p. 5743; Gaz. vol. 153; p. 999.
Galambos, John, Lorain, Ohio. Metallic railway tie and rail-clamp. No. 975,520; Nov. 15; Sp. p. 3217; Gaz. vol. 160; p. 548.
Galbraith, David G., assignor to N. L. Galbraith, Mineral Wells, Tex. Paper-clip. No. 957,764; May 10; Sp. p. 2681; Gaz. vol. 154; p. 461.
Galbraith, David G., assignor to N. L. Galbraith, Mineral Wells, Tex. Condenser. No. 975,612; Nov. 15; Sp. p. 3415; Gaz. vol. 160; p. 579.
Galbraith, Nannie L. (See Galbraith, David G., assignor.)
Galbraith, Robert J., Albany, Oreg. Steam-generator. No. 961,490; June 14; Sp. p. 2587; Gaz. vol. 155; p. 451.
Gale, Burton L. (See Merritt and Gale.)
Gale, Ernest L. (See Scott and Gale.)
Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. System of motor control. No. 965,175; July 26; Sp. p. 4692; Gaz. vol. 156; p. 813.
Gale, Francis G., Waterville, Quebec, Canada. Combined bed and chair. No. 979,461; Dec. 27; Sp. p. 4409; Gaz. vol. 161; p. 780.
Gale, Gertrude I., *et al.* (See Merritt and Gale, assignors.)
Gale, Horace B. (See Ayer and Gale.)
Gale, Horace B., Natick, Mass., assignor to Submarine Signal Company, Waterville, Me. Sound-producing device. No. 946,029; Jan. 11; Sp. p. 2259; Gaz. vol. 150; p. 376.

Alphabetical list of patentees—Continued.

Gale, Horace B., Natick, assignor to Simplex Electric Heating Company, Boston, Mass. Electrically-heated apparatus. No. 965,449; July 26; Sp. p. 5292; Gaz. vol. 156; p. 905.
Gale, Laburton A., Malden, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Covered strap for boots or shoes and producing same. No. 968,461; Aug. 23; Sp. p. 5572; Gaz. vol. 157; p. 961.
Gale Manufacturing Company. (See Beail, William L., assignor.)
Gale, Otis R., Santa Rosa, Cal. Clothes-drier. No. 968,240; Aug. 23; Sp. p. 5134; Gaz. vol. 157; p. 884.
Gall, Julius, Ableman, Wis. Hanging cabinet. No. 957,324; May 10; Sp. p. 1792; Gaz. vol. 154; p. 313.
Gallagher, Bernard, Lynn, Mass. Machine for filling bottles. No. 962,564; June 28; Sp. p. 4931; Gaz. vol. 155; p. 863.
Gallagher, Darius, New York, N. Y. Fountain-pen. No. 971,742; Oct. 4; Sp. p. 491; Gaz. vol. 159; p. 85.
Gallagher, Emma G., *et al.* (See Gallagher, George S., assignor.)
Gallagher, George F., *et al.* (See Peddy, Thomas T., assignor.)
Gallagher, George S., assignor of one-half to H. Gallagher and one-half to E. G. Gallagher, New York, N. Y. Steam-boiler furnace. No. 966,680; Aug. 9; Sp. p. 1798; Gaz. vol. 157; p. 307.
Gallagher, Henry, *et al.* (See Gallagher, George S., assignor.)
Gallagher, James A., Midford Station, N. Y. Pneumatic tool. No. 953,263; Mar. 29; Sp. p. 5775; Gaz. vol. 152; p. 1046.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Buffing mechanism for passenger-cars. No. 961,948; June 21; Sp. p. 3552; Gaz. vol. 155; p. 627.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Car construction. No. 961,949; June 21; Sp. p. 3555; Gaz. vol. 155; p. 627.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Railway-car coupling. No. 971,882; Oct. 4; Sp. p. 785; Gaz. vol. 159; p. 137.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Buffing mechanism for railway-cars. No. 971,985; Oct. 4; Sp. p. 1058; Gaz. vol. 159; p. 177.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Buffing mechanism. No. 974,654; Nov. 1; Sp. p. 1312; Gaz. vol. 160; p. 203.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Buffing mechanism for passenger-cars. No. 975,945; Nov. 15; Sp. p. 4099; Gaz. vol. 160; p. 692.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Mechanism for yieldingly resisting relative movement of bodies. No. 978,873; Dec. 20; Sp. p. 3116; Gaz. vol. 161; p. 553.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Buffing mechanism for railway-cars. No. 979,756; Dec. 27; Sp. p. 5062; Gaz. vol. 161; p. 881.
Gallagher, Richard W., San Francisco, assignor to Automatic Billing Company, Los Angeles, Cal. Bill-delivery mechanism for meters. No. 946,961; Jan. 18; Sp. p. 4379; Gaz. vol. 150; p. 720.
Gallagher, Richard W., assignor to Automatic Billing Company, Los Angeles, Cal. Automatic billing-machine for meters. No. 960,533; June 7; Sp. p. 598; Gaz. vol. 155; p. 97.
Gallagher, Richard W., Los Angeles, Cal., assignor to G. & H. Manufacturing Company, Jersey City, N. J. Carbureter. No. 976,258; Nov. 22; Sp. p. 4825; Gaz. vol. 160; p. 824.
Gallagher, Samuel J. (See Wilson and Gallagher.)
Gallagher, Stephen J. (See Cox and Gallagher.)
Gallagher, Thomas. (See Leen, John D., assignor.)
Gallagher, Thomas F., Charlestown, Mass. Game. No. 970,321; Sept. 13; Sp. p. 2518; Gaz. vol. 158; p. 425.
Gallaher, Jesse B., Penrith, Wash. Saw-set. No. 977,861; Dec. 6; Sp. p. 961; Gaz. vol. 161; p. 151.
Galland, Joshua H., assignor of one-half to S. P. Smith, Florence, Colo. Fan. No. 959,503; May 31; Sp. p. 6679; Gaz. vol. 154; p. 1136.
Galland, Justin S. (See Poindexter, Alfred M., assignor.)
Gallarda, Prudent H. (See Sitton, Frank, assignor.)
Gallaspy, Benjamin E., and A. H. McCarty, Fort Worth, Tex. Railway-crossing. No. 962,338; June 21; Sp. p. 4413; Gaz. vol. 155; p. 760.
Gallaudet, Edson F., Norwich, Conn., assignor to The Platt Iron Works Company, Dayton, Ohio. Air-compressor. No. 952,798; Mar. 22; Sp. p. 4793; Gaz. vol. 152; p. 862.
Galletti, Roberto C., Rome, Italy. Wireless telegraphy. No. 960,304; June 7; Sp. p. 127; Gaz. vol. 155; p. 25.
Galli, Andrew, Peoria, Ill. Suspending holder for paper bags. No. 960,886; June 7; Sp. p. 1302; Gaz. vol. 155; p. 218.
Galli, Louis, New York, N. Y. Device for supplying compressed air. No. 952,799; Mar. 22; Sp. p. 4798; Gaz. vol. 152; p. 863.
Galliland, Leo, *et al.* (See Sharpneck, Frank A., assignor.)
Gallinek, Benno, New York, N. Y. Embroidery-stiletto. No. 957,154; May 3; Sp. p. 1385; Gaz. vol. 154; p. 222.
Gallon, Henry E. A., Sotteville-les-Rouen, France. Apparatus for beading or turning over boiler-tubes. No. 956,334; Apr. 26; Sp. p. 5745; Gaz. vol. 153; p. 1000.
Galloway, Gilbert N., Elwood, Ind. Suspension clothes-drier. No. 947,591; Jan. 25; Sp. p. 5773; Gaz. vol. 150; p. 959.
Galloway, Robert, West Philadelphia, Pa. Artificial teeth. No. 963,541; July 5; Sp. p. 1161; Gaz. vol. 156; p. 177.
Galt, Robert B., *et al.*, trustees. (See Smith, Arthur K., assignor.)
Galusha, Albert L., Dorchester, Mass. Power plant. No. 974,255; Nov. 1; Sp. p. 385; Gaz. vol. 160; p. 56.
Galvao, Manuel, Paris, France. Vapor-lamp. No. 953,906; Apr. 5; Sp. p. 440; Gaz. vol. 153; p. 80.
Galvin Brass Company. (See Galvin, Thaddeus, assignor.)
Galvin, James A., Astoria, N. Y. Artificial limb. No. 975,029; Nov. 8; Sp. p. 2168; Gaz. vol. 160; p. 353.
Galvin, Thaddeus, assignor to Galvin Brass Company, Detroit, Mich. Valve. No. 955,859; Apr. 26; Sp. p. 4697; Gaz. vol. 153; p. 835.
Gamble, Edward A., Hastings, Nebr. Harness attachment. No. 979,067; Dec. 20; Sp. p. 3555; Gaz. vol. 161; p. 622.
Gamble, Henry A., assignor of one-fourth to J. H. Murch, Jr., San Francisco, Cal. Tire-armor. No. 966,438; Aug. 9; Sp. p. 1238; Gaz. vol. 157; p. 225.
Gamble, James H., assignor to R. Larner, Kenosha, Wis. Press-punch. No. 945,930; Jan. 11; Sp. p. 2064; Gaz. vol. 150; p. 343.
Gamble, John, Philadelphia, Pa. Base-ball mitt. No. 967,120; Aug. 9; Sp. p. 2783; Gaz. vol. 157; p. 456.
Gamble, John A., Liverpool, England. Device for recording or registering messages, memoranda, and the like. No. 976,062; Nov. 15; Sp. p. 4311; Gaz. vol. 160; p. 731.
Gamble, John M., Burlington, Iowa. Self-locking ticket-window closure. No. 970,912; Sept. 20; Sp. p. 3788; Gaz. vol. 158; p. 647.
Gamble, John R., *et al.* (See Bryant, William A., assignor.)
Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Feed-water heater and separator. No. 979,462; Dec. 27; Sp. p. 4412; Gaz. vol. 161; p. 780.
Gamble, Lena, administratrix. (See Gamble, William U. and S. J.)
Gamble, Sidney J. (See Gamble, William U. and S. J.)
Gamble, William U., deceased, (L. Gamble, administratrix,) and S. J. Gamble, Massillon, Ohio. Metallic railway-tie. No. 953,004; Mar. 22; Sp. p. 5196; Gaz. vol. 152; p. 932.
Gamblee, August. (See Pugh, Willeston C., assignor.)
Gamewell Fire Alarm Telegraph Company, The. (See Cole, Frederick W., assignor.)
Gamewell Fire Alarm Telegraph Company, The. (See Suren, Nathan H., assignor.)
Gamewell Fire Alarm Telegraph Company, The. (See Wheeler, Alden D., assignor.)
Gamewell, Joseph M., and J. A. Kirby, Spartanburg, S. C. Hydraulic press. No. 966,191; Aug. 2; Sp. p. 750; Gaz. vol. 157; p. 118.
Gammeter, Harry C., Bratenahl, Ohio. Mechanical movement. No. 948,782; Feb. 8; Sp. p. 2133; Gaz. vol. 151; p. 363.
Gammeter, Harry C., Collinwood, Ohio. Flying-machine. No. 968,931; Aug. 30; Sp. p. 6595; Gaz. vol. 157; p. 1148.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Paper-stripping device for printing-presses. No. 970,441; Sept. 13; Sp. p. 2749; Gaz. vol. 158; p. 463.
Gammeter, John R., assignor, by mesne assignments, to The United Rim Company, Akron, Ohio. Vehicle-wheel rim. No. 969,779; Sept. 13; Sp. p. 1364; Gaz. vol. 158; p. 240.
Gammons, Ferdinand C., Bridgewater, Mass., assignor to Continental Gin Company, Birmingham, Ala. Cotton-seed linter and condenser. No. 948,274; Feb. 1; Sp. p. 1008; Gaz. vol. 151; p. 165.
Gamon, Ernest E., Long Island City, N. Y. Water-meter. No. 953,199; Mar. 29; Sp. p. 5639; Gaz. vol. 152; p. 1025.
Gamon, Ernest E., Newark, N. J. Water-meter. No. 953,200; Mar. 29; Sp. p. 5640; Gaz. vol. 152; p. 1025.
Gamon, Ernest E., Newark, N. J. Stuffing-box for water-meters. No. 954,621; Apr. 12; Sp. p. 1974; Gaz. vol. 153; p. 350.
Gamon, Ernest E., Newark, N. J. Water-heater. No. 961,116; June 14; Sp. p. 1770; Gaz. vol. 155; p. 321.
Gamon, Ernest E., Newark, N. J. Nut. No. 963,042; July 5; Sp. p. 29; Gaz. vol. 156; p. 7.
Gamon, Ernest E., Newark, N. J. Water-meter. No. 974,256; Nov. 1; Sp. p. 387; Gaz. vol. 160; p. 57.
Gane, Cyril E., Normanby, New Zealand. Means for automatically delivering the milk from the vacuum-pipes of milking-machines. No. 950,385; Feb. 22; Sp. p. 5502; Gaz. vol. 151; p. 963.
Ganey, Jeremiah, Chicago, Ill. Street sprinkling or flushing wagon. No. 974,764; Nov. 1; Sp. p. 1552; Gaz. vol. 160; p. 239.

Gangawere, Albert O., and O. G. Romig, East McKeesport, Pa. Ash-lifter. No. 955,860; Apr. 26; Sp. p. 4699; Gaz. vol. 153; p. 835.
Gangewere, Rocky C., Selma, Ala. Apparatus for treating slag. No. 961,602; June 14; Sp. p. 2818; Gaz. vol. 155; p. 488.
Gano, Charles D. (See Nicholas, Kane, MacRae, and Gano.)
Ganong, S. H. (See Morris, Charles F., assignor.)
Gans, Robert, Pankow, near Berlin, assignor to J. D. Riedel Aktiengesellschaft, Berlin, Germany. Removing iron and organic germs from water. No. 951,641; Mar. 8; Sp. p. 2391; Gaz. vol. 152; p. 414.
Gans, Robert, Pankow, near Berlin, assignor to J. D. Riedel Aktiengesellschaft, Berlin, Germany. Softening water. No. 960,887; June 7; Sp. p. 1303; Gaz. vol. 155; p. 218.
Ganser, Adam, Lodi, Wis. Road-grader. No. 954,386; Apr. 5; Sp. p. 1462; Gaz. vol. 153; p. 243.
Gansslen, Hermann, Chicago, Ill., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Machine for making wired edges. No. 976,353; Nov. 22; Sp. p. 5033; Gaz. vol. 160; p. 854.
Gant, Kenneth W., assignor of ten one-hundredths to H. B. Warren and fifty one-hundredths to C. Becker, Indianapolis, Ind. Change-speed mechanism. No. 971,883; Oct. 4; Sp. p. 787; Gaz. vol. 159; p. 137.
Ganz, Edward, New York, N. Y. Emery-cloth file. No. 959,213; May 24; Sp. p. 6063; Gaz. vol. 154; p. 1014.
Ganzini, Mario, Milan, Italy. Screen for displaying projected pictures. No. 970,913; Sept. 20; Sp. p. 3790; Gaz. vol. 158; p. 647.
Gapp, John, Scranton, Pa. Track-sanding device. No. 950,531; Mar. 1; Sp. p. 147; Gaz. vol. 152; p. 24.
Garaghty, Charles F. (See Philipp and Garaghty.)
Garbarino, Paul P., San Jose, Cal. Base-ball and like game. No. 945,511; Jan. 4; Sp. p. 1092; Gaz. vol. 150; p. 168.
Garbarino, Victor, Malden, Mass. Steam-boiler regulator and feeder. No. 956,635; May 3; Sp. p. 276; Gaz. vol. 154; p. 45.
Garbart, John G. (See Scheib and Garbart.)
Garbe, William F., Fort Collins, Colo. Reservoir head-gate. No. 966,192; Aug. 2; Sp. p. 751; Gaz. vol. 157; p. 119.
Garber, David N., assignor of one-half to A. V. Nyberg, Grand Marais, Mich. Bedstead. No. 958,107; May 17; Sp. p. 3624; Gaz. vol. 154; p. 611.
Garber, Jesse B., assignor to The Deming Company, Salem, Ohio. Pump. No. 948,168; Feb. 1; Sp. p. 790; Gaz. vol. 151; p. 131.
Garber, Jesse B., assignor to The Deming Company, Salem, Ohio. Valve-cage and valve for pumps. No. 948,169; Feb. 1; Sp. p. 792; Gaz. vol. 151; p. 131.
Garber, Jesse B., assignor to The Deming Company, Salem, Ohio. Pump. No. 949,423; Feb. 15; Sp. p. 3463; Gaz. vol. 151; p. 604.
Garber, Jesse B., assignor to The Deming Company, Salem, Ohio. Combined air and water pump. No. 953,524; Mar. 29; Sp. p. 6347; Gaz. vol. 152; p. 1137.
Garber, Jesse B., assignor to The Deming Company, Salem, Ohio. Hydropneumatic pump. No. 970,914; Sept. 20; Sp. p. 3790; Gaz. vol. 158; p. 647.
Garber, Jesse B., assignor to The Deming Company, Salem, Ohio. Gravity valve-cage and valve for pumps. No. 978,729; Dec. 13; Sp. p. 2845; Gaz. vol. 161; p. 482.
Garbo, Nils F., Minneapolis, Minn. Sales-book holder. No. 958,739; May 24; Sp. p. 5044; Gaz. vol. 154; p. 852.
Garbo, Nils F., Minneapolis, Minn. Auditor's combination-report. No. 965,703; July 26; Sp. p. 5857; Gaz. vol. 156; p. 995.
Garby, Louis R., Lewiston, Idaho. Hand-stamp. No. 977,293; Nov. 29; Sp. p. 7079; Gaz. vol. 160; p. 1205.
Gardella, Albert B., Corlett, Ohio. Seal. No. 952,035; Mar. 15; Sp. p. 3202; Gaz. vol. 152; p. 576.
Gardiner, Arthur. (See Warburton and Gardiner.)
Gardiner, Charles, Philadelphia, Pa. Cleaner for windshields for automobiles, trolley-cars, and the like. No. 978,013; Dec. 6; Sp. p. 1272; Gaz. vol. 161; p. 204.
Gardiner, James C., Montreal, Quebec, Canada. Multiple-signing machine. No. 957,765; May 10; Sp. p. 2682; Gaz. vol. 154; p. 461.
Gardiner, Robert J., Tinsley, near Sheffield, assignor to Stewarts & Lloyds Limited, Birmingham, England. Piercing-mandrel. No. 945,932; Jan. 11; Sp. p. 2067; Gaz. vol. 150; p. 344.
Gardner, Adelbert L., Minneapolis, Minn. Automatic elevator. No. 964,099; July 12; Sp. p. 2364; Gaz. vol. 156; p. 388.
Gardner, Arthur, Wellington, New Zealand. Railway and tramway track point. No. 966,193; Aug. 2; Sp. p. 754; Gaz. vol. 157; p. 119.
Gardner Auto Spring Wheel Company. (See Gardner, William R., assignor.)
Gardner, Benjamin F., Chicago, Ill. Method of and apparatus for pumping oil and other wells. No. 965,287; July 26; Sp. p. 4928; Gaz. vol. 156; p. 850.
Gardner, Benjamin F., Chicago, Ill. Electric-controller plug. No. 969,265; Sept. 6; Sp. p. 245; Gaz. vol. 158; p. 40.
Gardner, Benjamin F., assignor to G. C. Richardson, Chicago, Ill. Tag. No. 958,620; May 17; Sp. p. 4794; Gaz. vol. 154; p. 788.
Gardner, Benjamin F., assignor of one-half to S. R. Salinger, Chicago, Ill. Telephone-disinfector. No. 975,346; Nov. 8; Sp. p. 2850; Gaz. vol. 160; p. 460.
Gardner, Charles A. (See Mogg and Gardner.)
Gardner, Clarence H., Santa Barbara, Cal. Loose-leaf ledger. No. 962,895; June 28; Sp. p. 5590; Gaz. vol. 155; p. 978.
Gardner, Clyde E. W., assignor to Pike Adding Machine Company, Orange, N. J. Recording mechanism. No. 955,789; Apr. 19; Sp. p. 4524; Gaz. vol. 153; p. 781.
Gardner, Clyde E. W., assignor to Pike Adding Machine Company, Orange, N. J. Perpendicular and horizontal adding machine. No. 960,634; June 7; Sp. p. 811; Gaz. vol. 155; p. 133.
Gardner, Clyde E. W., assignor to Pike Adding Machine Company, Orange, N. J. Recording mechanism. No. 966,194; Aug. 2; Sp. p. 756; Gaz. vol. 157; p. 120.
Gardner, Delamere B., Chicago, Ill. Reinforcing-truss for motor-cars. No. 961,406; June 14; Sp. p. 2385; Gaz. vol. 155; p. 422.
Gardner, Edward F., Scranton, Pa. Time-controlled damper-actuating mechanism. No. 979,148; Dec. 20; Sp. p. 3775; Gaz. vol. 161; p. 653.
Gardner, Edward O. (See Moats, Harlan G., assignor.)
Gardner, Edwin A., assignor of one-tenth to C. Baldacci, Chicago, Ill. Gasolene-engine starter. No. 950,848; Mar. 1; Sp. p. 825; Gaz. vol. 152; p. 132.
Gardner, Edwin L. (See Sherwood and Gardner.)
Gardner, Elijah, assignor of one-fourth to J. C. Almack, Rockford, and one-fourth to W. H. Keller, Spangle, Wash. Fruit and vegetable stand and rotary or turbine sprayer. No. 953,676; Mar. 29; Sp. p. 6670; Gaz. vol. 152; p. 1188.
Gardner, Francis, Rogers, Mont. Mail receiving and delivering apparatus. No. 954,952; Apr. 12; Sp. p. 2751; Gaz. vol. 153; p. 466.
Gardner, Frederic E. (See Gardner, Frederick N. and F. E.)
Gardner, Frederick, Chicago, assignor to T. Gardner, Oak Park, Ill. Combined package and toy. No. 975,227; Nov. 8; Sp. p. 2605; Gaz. vol. 160; p. 421.
Gardner, Frederick N. and F. E., assignors of one-third to L. W. Thompson, Beloit, Wis. Producing grinding-disks. No. 945,931; Jan. 11; Sp. p. 2065; Gaz. vol. 150; p. 344.
Gardner, Gilbert E. (See Giblyn and Gardner.)
Gardner, James, Baltimore, Md. Portable vacuum cleaning device. No. 952,244; Mar. 15; Sp. p. 3589; Gaz. vol. 152; p. 646.
Gardner, John R., Elm City, N. C. Sweep mechanism for hay-presses. No. 966,088; Aug. 2; Sp. p. 520; Gaz. vol. 157; p. 84.
Gardner, John S., Kansas City, Mo. Needle-case. No. 947,967; Feb. 1; Sp. p. 399; Gaz. vol. 151; p. 64.
Gardner, John W., Quincy, Ill. Air-compressor. No. 970,487; Sept. 20; Sp. p. 2863; Gaz. vol. 158; p. 501.
Gardner, Levi S., Otts Mills, assignor, by mesne assignments, to Gardner Wood Company, Corbin, La. Coloring wood. No. 952,245; Mar. 15; Sp. p. 3592; Gaz. vol. 152; p. 646.
Gardner, Norman E., Easton, Pa. Machine for cleaning bags. No. 956,523; May 3; Sp. p. 27; Gaz. vol. 154; p. 8.
Gardner, Robert Z. (See Cochran and Gardner.)
Gardner, Roland, Cleveland, Ohio. Abrasive material and mounting. No. 966,540; Aug. 9; Sp. p. 1521; Gaz. vol. 157; p. 260.
Gardner, Roland, Cleveland, Ohio. Abrading-wheel. No. 970,618; Sept. 20; Sp. p. 3136; Gaz. vol. 158; p. 547.
Gardner, Roland, Cleveland, Ohio. Abrading-block and carrier therefor. No. 970,619; Sept. 20; Sp. p. 3137; Gaz. vol. 158; p. 547.
Gardner, Sylvester C., Swansea, C. Chase, Fall River, Mass., and C. V. Kent, Bangor, Pa. Carrier. No. 960,534; June 7; Sp. p. 605; Gaz. vol. 155; p. 98.
Gardner, Theresa. (See Gardner, Frederick, assignor.)
Gardner, William E., and G. A. Israelson, Pittsburg, Pa. Oil-well heater. No. 945,321; Jan. 4; Sp. p. 689; Gaz. vol. 150; p. 107.
Gardner, William H. (See Williams and Gardner.)
Gardner, William J. (See Ingram, Thomas B., assignor.)
Gardner, William R., assignor to Gardner Auto Spring Wheel Company, Los Angeles, Cal. Spring-wheel. No. 955,258; Apr. 19; Sp. p. 3378; Gaz. vol. 153; p. 602.
Gardner, William R., assignor to Gardner's Lock Nut Company, Los Angeles, Cal. Nut-lock. No. 966,003; Aug. 2; Sp. p. 339; Gaz. vol. 157; p. 55.
Gardner, William R., assignor to Gardner's Lock Nut Company, Los Angeles, Cal. Nut-lock. No. 966,004; Aug. 2; Sp. p. 340; Gaz. vol. 157; p. 55.
Gardner, William R., assignor of one-fourth to F. Herr, one-half to D. G. Lytle, and one-fourth to G. H. Smith, Los Angeles, Cal. Jointed tool. No. 964,907; July 19; Sp. p. 4168; Gaz. vol. 156; p. 694.
Gardner Wood Company. (See Gardner, Levi S., assignor.)
Gardner's Lock Nut Company. (See Gardner, William R., assignor.)

Alphabetical list of patentees—Continued.

Gare, Thomas, New Brighton, England. Manufacture and repair of india-rubber goods. No. 967,751; Aug. 16; Sp. p. 4071; Gaz. vol. 157; p. 697.
Gare, Thomas, Bramble Beach, New Brighton, England. Machine for reducing vulcanized rubber to powder. No. 969,100; Aug. 30; Sp. p. 6928; Gaz. vol. 157; p. 1206.
Garfinkel, Ettey. (See Garfinkel, Himan, assignor.)
Garfinkel, Himan, assignor to E. Garfinkel, Brooklyn, N. Y. Post. No. 965,101; July 19; Sp. p. 4549; Gaz. vol. 156; p. 758.
Garford, Arthur L. (See Guilder, Walter C., assignor.)
Garforth, William E., Normanton, England. Respiration apparatus for use in coal-mines and other places. No. 953,462; Mar. 29; Sp. p. 6206; Gaz. vol. 152; p. 1113.
Garicsan, Anton, Chicago, Ill. Making a medicinal compound. No. 957,204; May 10; Sp. p. 1527; Gaz. vol. 154; p. 270.
Garisio, Theodore J., Allentown, Pa. Thread-cutting shuttle. No. 979,282; Dec. 20; Sp. p. 4058; Gaz. vol. 161; p. 698.
Garisio, Theodore J., Allentown, Pa. Shuttle. No. 980,093; Dec. 27; Sp. p. 5791; Gaz. vol. 161; p. 993.
Garland, Harrison W. (See Garland, Michael and H. W.)
Garland, Michael and H. W., assignors to The M. Garland Company, Bay City, Mich. Motor-driven set-works for sawmill-carriages. No. 949,068; Feb. 15; Sp. p. 2716; Gaz. vol. 151; p. 483.
Garland, Thomas H., Chicago, Ill. Car ventilating, refrigerating, and heating system. No. 978,284; Dec. 13; Sp. p. 1883; Gaz. vol. 161; p. 330.
Garland, William L., Llanerch, Pa., assignor to Safety Car Heating & Lighting Company. Steam-heating system. No. 959,504; May 31; Sp. p. 6681; Gaz. vol. 154; p. 1137.
Garlick, Jew, Paterson, N. J. Front automobile-axle. No. 965,288; July 26; Sp. p. 4930; Gaz. vol. 156; p. 850.
Garlinghouse, Burton A., Jackson, Mich. Hat-guard. No. 978,364; Dec. 13; Sp. p. 2044; Gaz. vol. 161; p. 357.
Garlock, Harry E. (See Perkins, William E., assignor.)
Garlock, William H., Seattle, Wash. Support for the fronts of coats. No. 968,142; Aug. 23; Sp. p. 4904; Gaz. vol. 157; p. 851.
Garloff, August J., Stony Point, Cal. Oil-burner. No. 966,899; Aug. 9; Sp. p. 2316; Gaz. vol. 157; p. 379.
Garman, Anne M., Le Beau, S. D. Ironing-board. No. 952,427; Mar. 15; Sp. p. 3950; Gaz. vol. 152; p. 707.
Garman, Harry B., Ottawa, Ill. Bearing. No. 964,859; July 19; Sp. p. 4066; Gaz. vol. 156; p. 677.
Garman, John H., Bristol, Ind. Mail-delivering apparatus. No. 955,861; Apr. 26; Sp. p. 4701; Gaz. vol. 153; p. 836.
Garner, James G., Chicago, Ill. Ventilating apparatus. No. 975,851; Nov. 15; Sp. p. 3914; Gaz. vol. 160; p. 660.
Garner, Robert M., Ripley, Ala. Cotton-chopper. No. 953,264; Mar. 29; Sp. p. 5776; Gaz. vol. 152; p. 1046.
Garner, Vernon. (See Dexter and Garner.)
Garnet, George H., Allentown, Pa. Disinfector. No. 966,900; Aug. 9; Sp. p. 2317; Gaz. vol. 157; p. 380.
Garnett, Fred M. (See Shannon and Garnett.)
Garnett, Lemuel E., Chanute, Kans. Pallet setting and adjusting tool. No. 956,956; May 3; Sp. p. 998; Gaz. vol. 154; p. 157.
Garnett, Robert L., Cedar Falls, Iowa. Device for elevators. No. 952,988; Mar. 22; Sp. p. 5156; Gaz. vol. 152; p. 926.
Garnett, William B., assignor of one-half to J. E. Faulds, Tonkawa, Okla. Soap-dispenser. No. 957,669; May 10; Sp. p. 2492; Gaz. vol. 154; p. 430.
Garnier, Alphonse E., Paris, France. Starting device for motor-vehicles. No. 952,800; Mar. 22; Sp. p. 4800; Gaz. vol. 152; p. 863.
Garnier, (alias Girrane,) Gustave, and C. Grobon, Lyon, France. Theatrical machinery. No. 960,888; June 7; Sp. p. 1305; Gaz. vol. 155; p. 219.
Garon, George E., Manchester, N. H. Spring-wheel. No. 974,765; Nov. 1; Sp. p. 1553; Gaz. vol. 160; p. 239.
Garpheide, Fritz, and W. Westerheide, Solingen, Germany. Wrench. No. 964,100; July 12; Sp. p. 2370; Gaz. vol. 156; p. 388.
Garr, Samuel R., Garfield, Utah. Feeding device for reverberatory furnaces. No. 961,768; June 21; Sp. p. 3163; Gaz. vol. 155; p. 568.
Garrard, Jeremiah, Muncie, Ind. Fish-cage. No. 980,148; Dec. 27; Sp. p. 5927; Gaz. vol. 161; p. 1012.
Garratt, James H., and W. J. McGivern, assignors to J. G. Kaelber, Rochester, N. Y. Fire-alarm system No. 961,853; June 21; Sp. p. 3351; Gaz. vol. 155; p. 595.
Garraway, Lee O., and H. T. Haase, Memphis, Tenn. Window shade and curtain fixture. No. 969,051; Aug. 30; Sp. p. 6828; Gaz. vol. 157; p. 1189.
Garrett, Frank W., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cover-fastener. No. 956,524; May 3; Sp. p. 29; Gaz. vol. 154; p. 8.
Garrett, George K., Philadelphia, Pa., assignor to National Umbrella Frame Company. Umbrella. No. 946,121; Jan. 11; Sp. p. 2443; Gaz. vol. 150; p. 407.
Garrett, George K., Philadelphia, Pa., assignor to National Umbrella Frame Company. Umbrella. No. 946,122; Jan. 11; Sp. p. 2445; Gaz. vol. 150; p. 407.
Garrett, H. P., *et al.* (See Kilpatrick, Robert L., assignor.)
Garrett, James C., Jersey City, N. J. Pneumatic clutch. No. 964,639; July 19; Sp. p. 3509; Gaz. vol. 156; p. 600.
Garrett, James W., Elk City, Okla. Cotton-chopper. No. 979,463; Dec. 27; Sp. p. 4414; Gaz. vol. 161; p. 781.
Garrett, Myers A., Chicago, Ill. Tank-car. No. 951,239; Mar. 8; Sp. p. 1562; Gaz. vol. 152; p. 281.
Garrett, Myers A., Chicago, Ill. Angle-cock and train-pipe connection. No. 957,325; May 10; Sp. p. 1793; Gaz. vol. 154; p. 313.
Garrett, Myers A., Chicago, Ill. Angle-cock support for air-brake systems. No. 960,889; June 7; Sp. p. 1307; Gaz. vol. 155; p. 219.
Garrett, Myers A., Chicago, Ill. Air-brake angle-cock connection and support. No. 960,890; June 7; Sp. p. 1309; Gaz. vol. 155; p. 219.
Garrett, Oliver K., *et al.* (See Nobis, Curtis A., assignor.)
Garrett, Robert M. (See Fox, Richard M., assignor.)
Garrett, S. A., *et al.* (See Kilpatrick, Robert L., assignor.)
Garrigus, Louis E., Newark, N. J. Cigar-tip cutter. No. 950,692; Mar. 1; Sp. p. 487; Gaz. vol. 152; p. 78.
Garrigus, Louis E., Newark, N. J. Jewelry. No. 964,229; July 12; Sp. p. 2617; Gaz. vol. 156; p. 431.
Garrison, Ferdnando G., Fort Worth, Tex. Automobile-radiator. No. 971,127; Sept. 27; Sp. p. 4221; Gaz. vol. 158; p. 746.
Garrison, George H., Olympia, Wash. Artificial bait. No. 974,050; Oct. 25; Sp. p. 5523; Gaz. vol. 159; p. 958.
Garrison, George W., Hanford, Cal. Earth-scraper. No. 979,283; Dec. 20; Sp. p. 4061; Gaz. vol. 161; p. 698.
Garrison, Harry A., Fayette, Iowa. Reverse-gearing. No. 976,731; Nov. 22; Sp. p. 5812; Gaz. vol. 160; p. 984.
Garrison, John I. (See Armstrong, William P., assignor.)
Garrison, Perry J., Mount Vernon, Ill. Railway-car jack. No. 952,518; Mar. 22; Sp. p. 4158; Gaz. vol. 152; p. 765.
Garsed, John L., Elland, England. Apparatus for operating planes or wings and rudders of aerial machines. No. 965,289; July 26; Sp. p. 4931; Gaz. vol. 156; p. 851.
Garside, Edmund, assignor to Engineering Instruments Limited, Darlington, England. Starting-switch for electric motors. No. 950,130; Feb. 22; Sp. p. 4992; Gaz. vol. 151; p. 878.
Garside, Edmund, assignor to Engineering Instruments Limited, Darlington, England. Starting-switch for electric motors. No. 957,945; May 17; Sp. p. 3080; Gaz. vol. 154; p. 552.
Garson, Edgar I., New York, N. Y., assignor to American Vending Machine Company. Coin-controlled mechanism for vending-machines, &c. No. 965,290; July 26; Sp. p. 4933; Gaz. vol. 156; p. 851.
Garst, Edwin, assignor of one-half to H. Garst, Dayton, Ohio. Steam-engine. No. 950,906; Mar. 1; Sp. p. 932; Gaz. vol. 152; p. 149.
Garst, Hamlin. (See Garst, Edwin, assignor.)
Garst, Julius. (See Lucier, David F., assignor.)
Gartenberg, Abraham. (See Ginaca, Henry G., assignor.)
Gartenmeister, Rudolf, Elberfeld, Germany. Purifying chlorates. No. 975,613; Nov. 15; Sp. p. 3416; Gaz. vol. 160; p. 580.
Garth, Thomas. (See McGaw, Solon, assignor.)
Gärtner, Moritz. (See Weinbeer, Gregor, assignor.)
Garton, William R., Brooklyn, N. Y., assignor to C. J. Griffin, Montezuma, Iowa. Lightning-arrester. No. 946,542; Jan. 18; Sp. p. 3449; Gaz. vol. 150; p. 580.
Garton, William R., Chicago, Ill., assignor to C. J. Griffin, Montezuma, Iowa. Lightning-arrester. No. 979,464; Dec. 27; Sp. p. 4416; Gaz. vol. 161; p. 781.
Gartrell, Charles B., Kansas City, Mo. Ironing-machine. No. 959,335; May 24; Sp. p. 6310; Gaz. vol. 154; p. 1055.
Garver, Allen J., Clarkson, Wash. Roaster for ores. No. 954,729; Apr. 12; Sp. p. 2236; Gaz. vol. 153; p. 388.
Garverich, Ross E., Harrisburg, Pa. Railway-switch. No. 950,532; Mar. 1; Sp. p. 149; Gaz. vol. 152; p. 25.
Garvey, Matthias, Mineville, N. Y. Hydraulic safety-clamp. No. 965,807; July 26; Sp. p. 6074; Gaz. vol. 156; p. 1030.
Garvey, Matthias, Mineville, N. Y. Apparatus for testing drill-holes. No. 965,808; July 26; Sp. p. 6076; Gaz. vol. 156; p. 1030
Garvin, George K., and E. J. McClellan, New York, N. Y., assignors to The Garvin Machine Company. Chuck. No. 976,452; Nov. 22; Sp. p. 5250; Gaz. vol. 160; p. 891.
Garvin Machine Company, The. (See Garvin and McClellan, assignors.)
Garvy Company, The. (See Hauser, Theodore, assignor.)
Garwood, Miles E., Georgetown, Wash. Runner-cutter and plant-topper. No. 959,003; May 24; Sp. p. 5623; Gaz. vol. 154; p. 945.
Gas Engine Pneumatic Company. (See Merrill, Frank H., assignor.)
Gas Power Company. (See Tait, Godfrey M. S., assignor.)
Gas Traction Co. (See Strite, George T., assignor.)
Gasau Spring & Bed Co. (See Rose, Byron H., assignor.)
Gasche, Ferdinand G., Chicago, Ill. Steam-hammer. No. 960,891; June 7; Sp. p. 1311; Gaz. vol. 155; p. 220.
Gasche, Heinrich, and K. Wenskÿ, Frankfort-on-the-Main, Germany. Mold. No. 967,012; Aug. 9; Sp. p. 2546; Gaz. vol. 157; p. 418.
Gash, William L., Glen Inglis, N. C. Sidehill-plow. No. 964,230; July 12; Sp. p. 2619; Gaz. vol. 156; p. 431.

Gaspard, Robert, Paris, France. Stiffener for garment-collars. No. 965,383; July 26; Sp. p. 5141; Gaz. vol. 156; p. 882.
Gasparich, Anton, Oakland, Cal. Adjustable irregular curve. No. 962,896; June 28; Sp. p. 5592; Gaz. vol. 155; p. 978.
Gassel, Jacob, Pittsburg, Pa. Shoe-salesman's stool. No. 975,852; Nov. 15; Sp. p. 3916; Gaz. vol. 160; p. 660.
Gasstrom, Herman, assignor to Dahl Manufacturing Company, New York, N. Y. Rule. No. 978,446; Dec. 13; Sp. p. 2219; Gaz. vol. 161; p. 385.
Gaster, Samuel A., Randolph, La. Rule. No. 965,450; July 26; Sp. p. 5296; Gaz. vol. 156; p. 905.
Gastlin, Albert J., New York, N. Y. Hoof-protector. No. 980,094; Dec. 27; Sp. p. 5793; Gaz. vol. 161; p. 993.
Gaston, Joseph. (See Matter, Albert J., assignor.)
Gaston, Walter, New York, N. Y. Treating carbon electrodes. No. 979,465; Dec. 27; Sp. p. 4418; Gaz. vol. 161; p. 781.
Gastram, Louis, Chicago, Ill. Shelf-covering. No. 954,179; Apr. 5; Sp. p. 1022; Gaz. vol. 153; p. 174.
Gasway, W. H., *et al.* (See Thomas, Howard W., assignor.)
Gatch, Milton W. (See Melish and Gatch.)
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Presser-foot for sewing-machines. No. 963,135; July 5; Sp. p. 275; Gaz. vol. 156; p. 38.
Gates, Benjamin L., Chicago, Ill. Massage apparatus. No. 973,770; Oct. 25; Sp. p. 4945; Gaz. vol. 159; p. 860.
Gates, Edward C. (See Hoover and Gates.)
Gates, George W., Flint, Mich. Fruit-parer. No. 965,513; July 26; Sp. p. 5438; Gaz. vol. 156; p. 928.
Gates, H. Z. (See Gates, William R., assignor.)
Gates, Hiram W., assignor of forty-nine and one-half one-hundredths to F. Lambe, Durham, N. C. Time-controlled gas-lighting device. No. 961,435; June 14; Sp. p. 2455; Gaz. vol. 155; p. 432.
Gates, Isaac N., assignor of one-half to D. R. Sheen, Peoria, Ill. Mold or form for concrete walls. No. 963,431; July 5; Sp. p. 937; Gaz. vol. 156; p. 140.
Gates, John C., Tipton, Ind. Nail-setter. No. 970,809; Sept. 20; Sp. p. 3595; Gaz. vol. 158; p. 614.
Gates, John W. (See Kittle and Gates.)
Gates, Richard T., London, England. Field-firing or surprise target. No. 945,512; Jan. 4; Sp. p. 1095; Gaz. vol. 150; p. 169.
Gates, Richard T., London, England. Field-firing or surprise target. No. 960,892; June 7; Sp. p. 1313; Gaz. vol. 155; p. 220.
Gates, Robert R. (See McKee and Gates.)
Gates, Walter S., and H. H. Dow, Midland, Mich., assignors, by mesne assignments, to The Ontario Nickel Company, Limited, Worthington, Canada. Separating metals in solution. No. 956,763; May 3; Sp. p. 564; Gaz. vol. 154; p. 90.
Gates, William H., Norwich, Conn. Automatic firearm. No. 962,137; June 21; Sp. p. 3981; Gaz. vol. 155; p. 692.
Gates, William H., assignor to The Hopkins & Allen Arms Company, Norwich, Conn. Firearm. No. 946,214; Jan. 11; Sp. p. 2642; Gaz. vol. 150; p. 440.
Gates, William R., assignor of one-half to H. Z. Gates, Winnfield, La. Saw-clamp. No. 964,508; July 19; Sp. p. 3207; Gaz. vol. 156; p. 555.
Gathmann, Emil, New York, N. Y. Ingot-mold. No. 961,854; June 21; Sp. p. 3367; Gaz. vol. 155; p. 596.
Gathmann, Emil, New York, N. Y. Ingot-mold. No. 974,133; Nov. 1; Sp. p. 54; Gaz. vol. 160; p. 12.
Gathmann, Emil, Bethlehem, Pa. Explosive-engine. No. 963,366; July 5; Sp. p. 805; Gaz. vol. 156; p. 119.
Gathmann, Emil, Bethlehem, Pa., assignor to Gathmann Engineering Company, New York, N. Y. Projectile. (Reissue.) No. 13,132; July 12; Sp. p. 3119; Gaz. vol. 156; p. 514.
Gathmann, Emil A., assignor to Bethlehem Steel Company, Bethlehem, Pa. Hydraulic jack. No. 947,613; Jan. 25; Sp. p. 5824; Gaz. vol. 150; p. 967.
Gathmann, Emil A., assignor to Bethlehem Steel Company, South Bethlehem, Pa. Percussion-fuse. No. 950,205; Feb. 22; Sp. p. 5156; Gaz. vol. 151; p. 905.
Gathmann Engineering Company. (See Gathmann, Emil, assignor.) (Reissue.)
Gathright, Josiah B., Louisville, Ky. Machine for blocking horse-collars. No. 968,143; Aug. 23; Sp. p. 4905; Gaz. vol. 157; p. 851.
Gathy, Jean J., Mons, Belgium. Treating dolomite. No. 971,368; Sept. 27; Sp. p. 4721; Gaz. vol. 158; p. 825.
Gatrell, Isaac N., *et al.* (See Scott, Samuel J., assignor.)
Gaucher, Elie, Constantinople, Turkey. Air-compressor adapted to work as a vacuum-pump. No. 967,013; Aug. 9; Sp. p. 2547; Gaz. vol. 157; p. 418.
Gaudin, Albert, and E. Tellier, Douai, France. Electromagnetically-operated valve. No. 946,344; Jan. 11; Sp. p. 2928; Gaz. vol. 150; p. 486.
Gaul, Henry M., Jr., Sinking Spring, Pa. Railway-tie and rail-fastener. No. 958,389; May 17; Sp. p. 4351; Gaz. vol. 154; p. 710.
Gault, Harry D., Wooster, Ohio. Expansible pulley. No. 978,285; Dec. 13; Sp. p. 1887; Gaz. vol. 161; p. 330.
Gaunt, John W., South Hadley, assignor of one-fourth to H. Field, Holyoke, Mass. Cloth-folding machine. No. 950,153; Feb. 22; Sp. p. 5033; Gaz. vol. 151; p. 885.
Gauntt, Forest G., Fort Wayne, Ind. Feeding device. No. 972,761; Oct. 11; Sp. p. 2714; Gaz. vol. 159; p. 462.
Gaupel, Adolph F. (See Ewing, Clifford, assignor.)
Gaut, John E., Vermontville, Mich. Table-slide. No. 978,730; Dec. 13; Sp. p. 2847; Gaz. vol. 161; p. 482.
Gaut, Joseph, Leichhardt, near Sydney, assignor of one-half to Harrington and Company Limited, Sydney, Australia. Photographic camera. No. 948,942; Feb. 8; Sp. p. 2435; Gaz. vol. 151; p. 414.
Gauthier, Joseph, Gorham, N. H. Car-door fastener. No. 975,347; Nov. 8; Sp. p. 2851; Gaz. vol. 160; p. 461.
Gauthier, Joseph, Gorham, N. H. Guide-bracket for sliding doors. No. 975,761; Nov. 15; Sp. p. 3735; Gaz. vol. 160; p. 629.
Gautier, Claude M., Lewisham, London, England. Metallic fabric suitable for pneumatic tires of motor-cars and other carriages. No. 978,731; Dec. 13; Sp. p. 2848; Gaz. vol. 161; p. 483.
Gautschi, Alfred, Menziken, assignor to Aluminiumwarenfabrik Gontenschwil Aktiengesellschaft, Gontenschwil, Switzerland. Rolling-mill. No. 977,725; Dec. 6; Sp. p. 679; Gaz. vol. 161; p. 105.
Gautzsch, Fred, Jr., Philadelphia, Pa. Fender. No. 962,754; June 28; Sp. p. 5318; Gaz. vol. 155; p. 929.
Gauvin, Emery C. (See St. Pierre and Gauvin.)
Gavan, Michael D., St. Louis, Mo. Convertible bed. No. 953,687; Apr. 5; Sp. p. 17; Gaz. vol. 153; p. 6.
Gavan, Michael D., St. Louis, Mo. Invalid-bed. No. 954,082; Apr. 5; Sp. p. 802; Gaz. vol. 153; p. 139.
Gavin, Joseph E., New York, N. Y. Bed and douche pan. No. 968,932; Aug. 30; Sp. p. 6600; Gaz. vol. 157; p. 1149.
Gavryloff, Alexander, Warsaw, Russia. Lift. No. 966,394; Aug. 2; Sp. p. 1133; Gaz. vol. 157; p. 183.
Gaw, Anna S., Chicago, Ill. Sliding-sole. No. 966,821; Aug. 9; Sp. p. 2153; Gaz. vol. 157; p. 354.
Gawler, Henry C. (See Pease and Gawler.)
Gay, Edgar A., Rochester, N. Y. Furniture attachment. No. 979,149; Dec. 20; Sp. p. 3777; Gaz. vol. 161; p. 654.
Gay, Herman T., Baltimore, Md. Spring-balance. No. 946,822; Jan. 18; Sp. p. 4055; Gaz. vol. 150; p. 672.
Gay, Richard H., Conesville, Iowa. Massage apparatus. No. 954,083; Apr. 5; Sp. p. 805; Gaz. vol. 153; p. 140.
Gayley, James. (See Brassert, Hermann A., assignor.)
Gayley, James, New York, N. Y. Apparatus for extracting moisture from air for blast-furnaces and converters. No. 953,525; Mar. 29; Sp. p. 6351; Gaz. vol. 152; p. 1137.
Gayley, James, New York, N. Y. Extracting moisture from air. No. 970,453; Sept. 13; Sp. p. 2778; Gaz. vol. 158; p. 467.
Gaylord, Edwin P., assignor to Ideal Carriage Washer and Automatic Water Saver Company, Rochester, N. Y. Water-controlling device. No. 955,150; Apr. 19; Sp. p. 3136; Gaz. vol. 153; p. 563.
Gaynor, Arthur C., Bridgeport, Conn. Swinging tire-holder. No. 964,153; July 12; Sp. p. 2472; Gaz. vol. 156; p. 405.
Gaynor, Joseph, New York, N. Y. Extensible cabinet. No. 957,605; May 10; Sp. p. 2342; Gaz. vol. 154; p. 407.
Gaynor, Joseph, New York, N. Y. Resilient vehicle-wheel. No. 969,266; Sept. 6; Sp. p. 247; Gaz. vol. 158; p. 40.
Gaynor, Joseph, New York, N. Y. Resilient vehicle-wheel. No. 977,520; Dec. 6; Sp. p. 232; Gaz. vol. 161; p. 35.
Gaynor, Thomas F. (See Curtin, Peter A., assignor.)
Gaynor, Thomas F., New York, N. Y. Self-filling fountain-pen. No. 977,424; Nov. 29; Sp. p. 7389; Gaz. vol. 160; p. 1249.
Gaynor, Thomas F., New York, N. Y., assignor to Pedaphone Company. Pedal-keyboard musical instrument. No. 980,149; Dec. 27; Sp. p. 5929; Gaz. vol. 161; p. 1012.
Gaynor, Timothy, Jr., assignor to E. Zink, Indianapolis, Ind. Automatic sprinkler-head. No. 968,144; Aug. 23; Sp. p. 4913; Gaz. vol. 157; p. 852.
Gayraud, José, Buenos Ayres, Argentina. Feeder for threshing-machines. No. 973,496; Oct. 25; Sp. p. 4374; Gaz. vol. 159; p. 765.
Gays, Giuseppe, Los Angeles, Cal. Propeller. No. 958,108; May 17; Sp. p. 3625; Gaz. vol. 154; p. 611.
Gear Grinding Machine Company. (See Ward, Frederick A., assignor.)
Gearhart, C. M., *et al.* (See Haslup, William, assignor.)
Gearless Transmission Co. (See Breyfogle, John W., assignor.)
Gearon, John, Sr., Chicago, Ill. Railway cross-tie. No. 963,542; July 5; Sp. p. 1162; Gaz. vol. 156; p. 177.
Geary, James E., Quincy, Mass. Swivel-lamp for vehicles. No. 945,122; Jan. 4; Sp. p. 234; Gaz. vol. 150; p. 40.
Geary, William H., Newport, Ark. Portable support for weighing-scales. No. 973,771; Oct. 25; Sp. p. 4946; Gaz. vol. 159; p. 860.
Geb, George F., Franklin, Mass. Carding mechanism. No. 978,998; Dec. 20; Sp. p. 3407; Gaz. vol. 161; p. 599.
Gebauer, Carl W., Dresden, Germany. Shell for artillery. No. 965,809; July 26; Sp. p. 6080; Gaz. vol. 156; p. 1031.
Gebauer, Emil G., Chicago, Ill. Car-seal. No. 952,801; Mar. 22; Sp. p. 4801; Gaz. vol. 152; p. 864.
Gebauer, William H., St. Louis, Mo. Vegetable-cutter. No. 965,384; July 26; Sp. p. 5143; Gaz. vol. 156; p. 882.

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Gebhardt, John H., Des Moines, Iowa. Adjustable reversing attachment and feed for cutting-tools. No. 971,262; Sept. 27; Sp. p. 4522; Gaz. vol. 158; p. 791.
Gebhardt, Victor A., Cincinnati, Ohio. Setting for precious stones. No. 954,568; Apr. 12; Sp. p. 1859; Gaz. vol. 153; p. 332.
Gebott, Frederick W., Everett, Wash. Slasher-head and coupling. No. 970,915; Sept. 20; Sp. p. 3792; Gaz. vol. 158; p. 648.
Gebr. Körting Aktien-Gesellschaft. (See Brauss, Edward, assignor.)
Gebrüder Siemens & Co. (See Viertel, Hermann, assignor.)
Geddes, Albert H., Empire, Panama. Dipper-trip for steam-shovels. No. 978,575; Dec. 13; Sp. p. 2522; Gaz. vol. 161; p. 430.
Geddes, William, Annan, Ontario, Canada, assignor of one-fourth to H. B. Wilson and one-fourth to J. S. Dundon, San Francisco, Cal. Boring or drilling bit. No. 960,635; June 7; Sp. p. 814; Gaz. vol. 155; p. 133.
Geddes, William E., Chicago, Ill. Railway-gate. No. 977,001; Nov. 29; Sp. p. 6471; Gaz. vol. 160; p. 1104.
Gedeon, James, assignor of one-third to C. L. Brown and one-third to R. D. Mansfield, Cleveland, Ohio. Vessel-loading alarm. No. 973,772; Oct. 25; Sp. p. 4947; Gaz. vol. 159; p. 861.
Gedge, Burton H., Anderson, Ind. Stock-watering tank. No. 974,873; Nov. 8; Sp. p. 1802; Gaz. vol. 160; p. 299.
Gee, Albert, assignor of one-half to W. P. Moore, Philadelphia, Pa. Automatic yarn-changing mechanism for knitting-machines. No. 971,986; Oct. 4; Sp. p. 1061; Gaz. vol. 159; p. 177.
Gee, Charles A., South Tottenham, London, England. Exhibiting and advertising apparatus. No. 969,780; Sept. 13; Sp. p. 1366; Gaz. vol. 158; p. 240.
Gee, John H., and G. W. Coates, Palestine, Tex. Forming implement. No. 968,548; Aug. 30; Sp. p. 5779; Gaz. vol. 157; p. 1018.
Gee, Samuel, *et al.* (See Tingley, Lloyd M., assignor.)
Geer, George T., Denver, Colo. Rotary engine. No. 953,328; Mar. 29; Sp. p. 5905; Gaz. vol. 152; p. 1066.
Geer, George T., Denver, Colo. Rotary engine. No. 971,671; Oct. 4; Sp. p. 339; Gaz. vol. 159; p. 59.
Geer, Harrison. (See Kendrick, Karl A., assignor.)
Geer, Harry R., assignor of one-half to J. D. W. Snowden, Johnstown, Pa. Variable-speed transmission mechanism. No. 948,091; Feb. 1; Sp. p. 654; Gaz. vol. 151; p. 106.
Geeseman, Earle E., Cuba, Ill. Dumping-wagon. No. 948,092; Feb. 1; Sp. p. 658; Gaz. vol. 151; p. 106.
Geessels, Guillaume, Brussels, Belgium. Device for increasing the draft of chimneys and for obtaining draft with bad chimneys. No. 972,847; Oct. 18; Sp. p. 2905; Gaz. vol. 159; p. 517.
Gefvert, Gustaf A., Bridgeport, Conn. Adjustable vise. No. 955,259; Apr. 19; Sp. p. 3379; Gaz. vol. 153; p. 602.
Geh, Frederick. (See Mueller, Robert G., assignor.)
Gehrke, Edward A., Lincoln, Nebr. Tap-screw for plugging leaks. No. 951,437; Mar. 8; Sp. p. 1985; Gaz. vol. 152; p. 345.
Gehrkens, Edward F., Schenectady, N. Y., assignor to General Electric Company. Means for heating metals. No. 970,488; Sept. 20; Sp. p. 2865; Gaz. vol. 158; p. 501.
Gehrman, Otto C. (See Trapp and Gehrman.)
Geier, James, assignor to C. Nielsen and H. S. Giles, Troy, N. Y. Ice-cream spoon. No. 977,382; Nov. 29; Sp. p. 7279; Gaz. vol. 160; p. 1236.
Geiger, Calvin C., Bluffton, assignor to I. T. Evans, Columbus, Ohio. Display-rack. No. 968,933; Aug. 30; Sp. p. 6602; Gaz. vol. 157; p. 1149.
Geiger, Charles B., Manning, S. C. Vehicle-spring. No. 959,336; May 24; Sp. p. 6311; Gaz. vol. 154; p. 1055.
Geiger, Frank, Patoka, Ill. Wagon-top. No. 979,839; Dec. 27; Sp. p. 5258; Gaz. vol. 161; p. 910.
Geiger, Goslee F., Louisville, Ky. Blotter attachment. No. 949,702; Feb. 15; Sp. p. 3995; Gaz. vol. 151; p. 695.
Geiger, Joseph M., Wormleysburg, Pa. Penholder. No. 948,852; Feb. 8; Sp. p. 2271; Gaz. vol. 151; p. 385.
Geiger, Walter H. (See Rickards and Geiger.)
Geiger, William F., Quarryville, Pa. Flush-valve attachment. No. 948,876; Feb. 8; Sp. p. 2310; Gaz. vol. 151; p. 393.
Geipel, William, Southwark, England. Electric cable. No. 965,810; July 26; Sp. p. 6082; Gaz. vol. 156; p. 1031.
Geis, William H., Massillon, Ohio. Hot-water boiler. No. 978,365; Dec. 13; Sp. p. 2045; Gaz. vol. 161; p. 357.
Geisel, Carl H., Wheeling, W. Va. Cake-baking pan. No. 968,761; Aug. 30; Sp. p. 6257; Gaz. vol. 157; p. 1093.
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 945,933; Jan. 11; Sp. p. 2068; Gaz. vol. 150; p. 344.
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Friction-clutch. No. 946,123; Jan. 11; Sp. p. 2447; Gaz. vol. 150; p. 407.
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Machine for cutting turbine vanes or buckets. No. 972,848; Oct. 18; Sp. p. 2907; Gaz. vol. 159; p. 517.
Geiser Manufacturing Company, The. (See Beard, Daniel S., assignor.)
Geiser Manufacturing Company, The. (See Clymans, Ezra G., assignor.)
Geisler, Louis, Paris, France, assignor to Chromography Limited, London, England. Apparatus for taking photographs in colors and causing them to appear stereoscopically. No. 970,322; Sept. 13; Sp. p. 2519; Gaz. vol. 158; p. 425.
Geissenhainer, Frederick W., Freehold, N. J., and M. S. Cumner, New York, N. Y. Ice-pick. No. 949,470; Feb. 15; Sp. p. 3555; Gaz. vol. 151; p. 619.
Geissinger, Harry G., assignor to Geissinger Regulator Company, New York, N. Y. Electromagnetic device. No. 946,215; Jan. 11; Sp. p. 2643; Gaz. vol. 150; p. 440.
Geissinger, Harry G., assignor to Geissinger Regulator Company, New York, N. Y. Electromagnetic circuit-controller. No. 964,418; July 12; Sp. p. 2986; Gaz. vol. 156; p. 493.
Geissinger, Harry G., assignor to Geissinger Regulator Company, New York, N. Y. Automatic electric heat control. No. 969,781; Sept. 13; Sp. p. 1370; Gaz. vol. 158; p. 240.
Geissinger Regulator Company. (See Geissinger, Harry G., assignor.)
Gekeler, Alvin G., Lima, Ohio. Relief device for cleaning apparatus. No. 953,825; Apr. 5; Sp. p. 288; Gaz. vol. 153; p. 51.
Gelas, Marie, Paris, France. Display device. No. 963,706; July 5; Sp. p. 1490; Gaz. vol. 156; p. 232.
Gelarie, Louis. (See Hirsch, Henry, assignor.)
Gelbman, Harry, Hamilton, Mont. Meat-boning implement. No. 954,084; Apr. 5; Sp. p. 807; Gaz. vol. 153; p. 140.
Geller, Peter J., Detroit, Mich. Paint and varnish remover. No. 951,369; Mar. 8; Sp. p. 1849; Gaz. vol. 152; p. 323.
Gelsinger, Henry A., Chicago, Ill. Fishing apparatus. No. 967,897; Aug. 23; Sp. p. 4358; Gaz. vol. 157; p. 768.
Gelzenlichter, John, Lynn, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Automatic hand-tacker. No. 957,946; May 17; Sp. p. 3081; Gaz. vol. 154; p. 552.
Gem City Stove Mfg. Co. (See Specht, Adolph A., assignor.)
Gem Shirt Co., The. (See Sabine, Lorenzo, assignor.)
Gemmer, Louis, Aurora, Ill. Suit-hanger. No. 965,577; July 26; Sp. p. 5593; Gaz. vol. 156; p. 952.
Gemmill, James I., Cleveland, Ohio. Automatic phonograph of the wax-cylinder type. No. 978,014; Dec. 6; Sp. p. 1273; Gaz. vol. 161; p. 204.
Gemunder, Arthur. (See Snow, Gemunder, and Michel.)
Gendron Wheel Company. (See Diemer, William, assignor.)
Gendron Wheel Company. (See Nauts, Frank A., assignor.)
Gendts, Rudolf, New York, N. Y. Airship. No. 957,205; May 10; Sp. p. 1528; Gaz. vol. 154; p. 270.
Genella, Alphonse J. K., New Orleans, La., assignor, by mesne assignments, to G. H. Underhill, Boston, Mass. Multiple-record graphophone. No. 979,466; Dec. 27; Sp. p. 4419; Gaz. vol. 161; p. 782.
General Chemical Company. (See Herreshoff, John B. F., assignor.)
General Chemical Company. (See Neumann, Max, assignor.)
General Device Manufacturing Company. (See Brown, Henry P., assignor.)
General Electric Company. (See Ahlquist, Karl, assignor.)
General Electric Company. (See Alexander, Hans, assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Allen, Joseph H., assignor.)
General Electric Company. (See Anderson, Albert S., assignor.)
General Electric Company. (See Appelberg, Axel O., assignor.)
General Electric Company. (See Arsem, William C., assignor.)
General Electric Company. (See Atwood, Winfield A., assignor.)
General Electric Company. (See Ball, Augustus A., Jr., assignor.)
General Electric Company. (See Ball, Henry P., assignor.)
General Electric Company. (See Barker, Ralph E., assignor.)
General Electric Company. (See Batchelder, Asa F., assignor.)
General Electric Company. (See Bechoff, Ferdinand, assignor.)
General Electric Company. (See Beechlyn, John T., assignor.)
General Electric Company. (See Bell, Thomas, assignor.)
General Electric Company. (See Benson, Harry F., assignor.)
General Electric Company. (See Bentley, Fred W., assignor.)
General Electric Company. (See Bentley, Frederick W., assignor.)
General Electric Company. (See Berry, Arthur F., assignor.)

Alphabetical list of patentees—Continued.

General Electric Company. (See Berry and Guay, assignors.)
General Electric Company. (See Boyd, Frederic R. C., assignor.)
General Electric Company. (See Bresler, Harry W., assignor.)
General Electric Company. (See Broadbent, Thomas, assignor.)
General Electric Company. (See Burrows, William R., assignor.)
General Electric Company. (See Burrows and McIntosh, assignors.)
General Electric Company. (See Butts, Daniel G., assignor.)
General Electric Company. (See Callan, John G., assignor.)
General Electric Company. (See Carichoff, Eugene R., assignor.)
General Electric Company. (See Case, Frank E., assignor.)
General Electric Company. (See Chapman, Lewis S., assignor.)
General Electric Company. (See Coffey, Michael L., assignor.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Corey, Fred B., assignor.)
General Electric Company. (See Creighton, Elmer E. F., assignor.)
General Electric Company. (See Crocker, Arthur T., assignor.)
General Electric Company. (See Cubitt, Archibald S., assignor.)
General Electric Company. (See Curtis, Charles G., assignor.)
General Electric Company. (See Dallam, John C., assignor.)
General Electric Company. (See Darke, Jesse M., assignor.)
General Electric Company. (See Davis, Albert G., assignor.)
General Electric Company. (See Dempster, John T. H., assignor.)
General Electric Company. (See Dempster, Leonard E., assignor.)
General Electric Company. (See Doen, Nathan M., assignor.)
General Electric Company. (See Duff, Jenesse R., assignor.)
General Electric Company. (See Dunning, Parker, assignor.)
General Electric Company. (See Dutton, Edgar F., assignor.)
General Electric Company. (See Eagar, George T., assignor.)
General Electric Company. (See Emerson, Henry B., assignor.)
General Electric Company. (See Emmet, William L. R., assignor.)
General Electric Company. (See Eveleth, Charles E., assignor.)
General Electric Company. (See Faccioli, Giuseppe, assignor.)
General Electric Company. (See Feeney, Joseph P., assignor.)
General Electric Company. (See Fish, Walter C., assignor.)
General Electric Company. (See Fleming, Richard, assignor.)
General Electric Company. (See Fleming and Halvorson, assignors.)
General Electric Company. (See Fonda, Shepherd T., assignor.)
General Electric Company. (See Forster, Frank T., assignor.)
General Electric Company. (See Foster, William J., assignor.)
General Electric Company. (See Frank, John J., assignor.)
General Electric Company. (See Fuss, Max, assignor.)
General Electric Company. (See Gehrkens, Edward F., assignor.)
General Electric Company. (See Geisenhöner, Henry, assignor.)
General Electric Company. (See Graybill, John E., assignor.)
General Electric Company. (See Green, Charles M., assignor.)
General Electric Company. (See Hall, John L., assignor.)
General Electric Company. (See Halliwell, Reginald F., assignor.)
General Electric Company. (See Halsey, Edward S., assignor.)
General Electric Company. (See Halvorson, Cromwell A. B., Jr., assignor.)
General Electric Company. (See Harthan and Dalton, assignors.)
General Electric Company. (See Haskins, Caryl D., assignor.)
General Electric Company. (See Hawkins, Laurence A., assignor.)
General Electric Company. (See Hayden, Joseph L. R., assignor.)
General Electric Company. (See Hentschel, Charles T., assignor.)
General Electric Company. (See Hewlett, Edward M., assignor.)
General Electric Company. (See Hewlett and Button, assignors.)
General Electric Company. (See Hewson, Robert, assignor.)
General Electric Company. (See Heymann, Hugo, assignor.)
General Electric Company. (See Hill, George H., assignor.)
General Electric Company. (See Howell, Fred B., assignor.)
General Electric Company. (See Howell, John W., assignor.)
General Electric Company. (See Jacobs, Ernest H., assignor.)
General Electric Company. (See Janisch, Leopold, assignor.)
General Electric Company. (See Jodrey, Elbert W., assignor.)
General Electric Company. (See Junggren, Oscar, assignor.)
General Electric Company. (See Junggren and Bentley, assignors.)
General Electric Company. (See Kellogg, James W., assignor.)
General Electric Company. (See Kleser, Walter, assignor.)
General Electric Company. (See Kruesi, August H., assignor.)
General Electric Company. (See Kruh, Osias O., assignor.)
General Electric Company. (See Kudlich, Alfred H., assignor.)
General Electric Company. (See Kužel, Hans, assignor.)
General Electric Company. (See Larzelere, Charles B., assignor.)
General Electric Company. (See Lee and Button, assignors.)
General Electric Company. (See Legel, Willy, assignor.)
General Electric Company. (See Lemp, Hermann, assignor.)
General Electric Company. (See Loewenstein and Dyer, assignors.)
General Electric Company. (See Logan, Judson C., assignor.)
General Electric Company. (See Luther, John E., assignor.)
General Electric Company. (See Mackintosh, Frederick, assignor.)
General Electric Company. (See Macloskie, George, assignor.)
General Electric Company. (See Marshall, Norman, assignor.)
General Electric Company. (See Maxwell, Howard, assignor.)
General Electric Company. (See Mayer, Max, assignor.)
General Electric Company. (See Milch, Maurice, assignor.)
General Electric Company. (See Mix, Edgar W., assignor.)
General Electric Company. (See Moss, Sanford A., assignor.)
General Electric Company. (See Müller, Heinrich, assignor.)
General Electric Company. (See Mulvey, Peter J., assignor.)
General Electric Company. (See Noeggerath, Jakob E., assignor.)
General Electric Company. (See Olivier, Paul, assignor.)
General Electric Company. (See Owens, Robert B., assignor.)
General Electric Company. (See Paine, Sidney B., assignor.)
General Electric Company. (See Parkhurst, Leon F., assignor.)
General Electric Company. (See Pearson, Millard M., assignor.)
General Electric Company. (See Peek, Frank W., Jr., assignor.)
General Electric Company. (See Persson, Otto F., assignor.)
General Electric Company. (See Peterson, Charles F., assignor.)
General Electric Company. (See Plank and Finney, assignors.)
General Electric Company. (See Potter, William B., assignor.)
General Electric Company. (See Pratt, William H., assignor.)
General Electric Company. (See Priest, Edward D., assignor.)
General Electric Company. (See Rausch, August, assignor.)
General Electric Company. (See Reist, Henry G., assignor.)

Alphabetical list of patentees—Continued.

General Electric Company. (See Rice, Edwin W., Jr., assignor.)
General Electric Company. (See Rice, Richard H., assignor.)
General Electric Company. (See Riddell, John, assignor.)
General Electric Company. (See Riest, Henry G., assignor.)
General Electric Company. (See Robertson, Thomas E., assignor.)
General Electric Company. (See Robinson, Lewis T., assignor.)
General Electric Company. (See Robinson and Miller, assignors.)
General Electric Company. (See Roos, Herman, assignor.)
General Electric Company. (See Ryan, Walter D., assignor.)
General Electric Company. (See Sährig, Theodor, assignor.)
General Electric Company. (See Samuelson, Frederick, assignor.)
General Electric Company. (See Sargent, Howard R., assignor.)
General Electric Company. (See Savage, Arthur C., assignor.)
General Electric Company. (See Sawin, George A., assignor.)
General Electric Company. (See Schattner, Ernest, assignor.) (Reissue.)
General Electric Company. (See Scheeffer, Gustave A., assignor.)
General Electric Company. (See Shailor, Frank E., assignor.)
General Electric Company. (See Simon, Edward, assignor.)
General Electric Company. (See Simonds, Charles G., assignor.)
General Electric Company. (See Slichter, Walter I., assignor.)
General Electric Company. (See Smith, Henry L., assignor.)
General Electric Company. (See Smith, Herbert M., assignor.)
General Electric Company. (See Smoot, Charles H., assignor.)
General Electric Company. (See Smythe, Edwin H., assignor.)
General Electric Company. (See Stanley, William, assignor.)
General Electric Company. (See Steinmetz, Charles P., assignor.)
General Electric Company. (See Stern, Philip K., assignor.)
General Electric Company. (See Stevens, George E., assignor.)
General Electric Company. (See Stevens, Harry M., assignor.)
General Electric Company. (See Taylor, John B., assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
General Electric Company. (See Tournier, Julius C., assignor.)
General Electric Company. (See Tritle, John F., assignor.)
General Electric Company. (See Troy, Matthew O., assignor.)
General Electric Company. (See Underwood, Louis E., assignor.)
General Electric Company. (See Underwood and Bergman, assignors.)
General Electric Company. (See Underwood and Smith, assignors.)
General Electric Company. (See Unger, Magnus, assignor.)
General Electric Company. (See Van Aller, Tycho, assignor.)
General Electric Company. (See Vollmer, Joseph, assignor.)
General Electric Company. (See Wakefield, William O., assignor.)
General Electric Company. (See Weaver, Eugene M., assignor.)
General Electric Company. (See Weeks, Harry G., assignor.)
General Electric Company. (See Weintraub, Ezechiel, assignor.)
General Electric Company. (See Weston, Frederick H., Jr., assignor.)
General Electric Company. (See Wheeler, Horace, assignor.)
General Electric Company. (See White, Harold E., assignor.)
General Electric Company. (See White and Carichoff, assignors.)
General Electric Company. (See Whitney, Willis R., assignor.)
General Electric Company. (See Wiard, John B., assignor.)
General Electric Company. (See Wiler, Carl, assignor.)
General Electric Company. (See Willey, Leland M., assignor.)
General Electric Company. (See Winkler, Otto, assignor.)
General Electric Company. (See Wirt, Herbert C., assignor.)
General Electric Company. (See Wood, Montraville M., assignor.)
General Electric Company. (See Worsey, Charles H., assignor.)
General Electric Company. (See Wright, Gilbert, assignor.)
General Electric Company. (See Wright and Hoffman, assignors.)
General Electric Company. (See Yates, William C., assignor.)
General Electric Company. (See Yates and Lum, assignors.)
General Electrolytic Parent Company Limited. (See Stubbs, John W., assignor.)
General Fire Extinguisher Company. (See Derby, John H., assignor.)
General Fire Extinguisher Company. (See Meloon, Jonathan C., assignor.)
General Fire Extinguisher Company. (See Reynolds, George H., assignor.)
General Fireproofing Company, The. (See Hunting, Eugene N., assignor.)
General Fireproofing Company, The. (See Wege, Peter M., assignor.)
General Fireproofing Company, The. (See White, Herbert E., assignor.)
General Fireproofing Company, The. (See White and Ham, assignors.)
General Gas Light Company. (See Humphrey, Frederick J., assignor.)
General Hydrocarbon Co. (See Donnelly, John R., assignor.)
General Knit Fabric Company. (See Scott, Robert W., assignor.)
General Manifold and Printing Company. (See Lewis, Edward Z., assignor.)
General Music Supply Company. (See Haskins, Caryl D., assignor.)
General Package Company, The. (See McMurray, William, assignor.)
General Railway Equipment Company, The. (See Dukesmith, Frank H., assignor.)
General Railway Signal Company. (See Balliet, Herbert S., assignor.)
General Railway Signal Company. (See Dodgson, Frank L., assigner.)
General Railway Signal Company. (See Henry, William S., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
General Refrigerating Company. (See Cooper, William, assignor.)
Genest, Werner, Gross-Lichterfelde, and H. Stössel, Westend, Germany. Plate for deadening vibration and sound. No. 971,369; Sept. 27; Sp. p. 4722; Gaz. vol. 158; p. 825.
Geneva Furniture Manufacturing Company. (See Karpen, Solomon, assignor.)
Gennert, Emil F., assignor to Manhattan Brass Company, New York, N. Y. Kerosene-burner. No. 975,411; Nov. 15; Sp. p. 2987; Gaz. vol. 160; p. 508.
Genossenschaft für Textilpatente. (See Koechlin, Albert G., assignor.)
Gensburg, Samuel H., Pittsburg, Pa. Clamp. No. 951,001; Mar. 1; Sp. p. 1113; Gaz. vol. 152; p. 180.
Gensecke, Wilhelm. (See Josse and Gensecke.)
Genthner, Benjamin T., Foxcroft, Me. Smoking-pipe. No. 974,051; Oct. 25; Sp. p. 5525; Gaz. vol. 159; p. 958.
Gentle, Charles. (See Partridge, Carr, and Gentle.)
Gentle, Charles, Hamilton, Ontario, Canada. Truck. No. 978,015; Dec. 6; Sp. p. 1281; Gaz. vol. 161; p. 205.
Gentle, William M., Southport, Ind. Steam-boiler. No. 957,155; May 3; Sp. p. 1387; Gaz. vol. 154; p. 223.
Gentle, William M., Greenwood, Ind. Game apparatus. No. 970,489; Sept. 20; Sp. p. 2863; Gaz. vol. 158; p. 501.
Gentle, William M., assignor to National Pressed Fuel Company, Indianapolis, Ind. Compressing-machine. No. 959,928; May 31; Sp. p. 7572; Gaz. vol. 154; p. 1280.
Gentzsch, Adolf, Vienna, Austria-Hungary. Utilization of waste rubber. No. 951,811; Mar. 15; Sp. p. 2745; Gaz. vol. 152; p. 502.
Geo. Borgfeldt & Co., Firm of. (See Steiner, Louis, assignor.)
Geo. Ertel Co. (See Tuttle, Josiah S., assignor.)
Geo. W. Stafford Company, The. (See Jackson, Simeon S., assignor.)
George D. Barnard & Company. (See Mewes, Gustav F., assignor.)
George Ertel Co. (See Tuttle, Josiah S., assignor.)
George, Frank S., Hopkins, Minn. Pocket check-protector. No. 971,601; Oct. 4; Sp. p. 201; Gaz. vol. 159; p. 36.
George Frost Company. (See Glidden, George B., assignor.)
George, Gilbert D., St. Paul, Minn. Tent. No. 947,281; Jan. 25; Sp. p. 5051; Gaz. vol. 150; p. 854.
George, Gilbert D., St. Paul, Minn. Tent. No. 947,407; Jan. 25; Sp. p. 5357; Gaz. vol. 150; p. 898.
George H. Frothingham Co. (See Prescott, Arthur T., assignor.)

George H. Fuller & Son Company. (See Phinney, Elisha A., assignor.)
George, James H., New York, N. Y. Metallic barrel. No. 967,629; Aug. 16; Sp. p. 3819; Gaz. vol. 157; p. 656.
George, James H., Boston, Mass. Metallic barrel. No. 967,630; Aug. 16; Sp. p. 3821; Gaz. vol. 157; p. 656.
George, James H., New York, N. Y. Metallic barrel. No. 967,752; Aug. 16; Sp. p. 4071; Gaz. vol. 157; p. 697.
George, Jerome R. (See Edwards and George.)
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 946,030; Jan. 11; Sp. p. 2264; Gaz. vol. 150; p. 377.
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 966,089; Aug. 2; Sp. p. 522; Gaz. vol. 157; p. 85.
George Lawrence Co., The. (See Reisacher, John, assignor.)
George, Lemuel L., assignor of one-half to H. C. Miller, York, Pa. Bat-and-ball game device. No. 973,935; Oct. 25; Sp. p. 5286; Gaz. vol. 159; p. 917.
George M. Davis Regulator Company. (See Davis and Daley, assignors.)
George, Marion N., Irondale, Ala. Mail-bag deliverer. No. 948,217; Feb. 1; Sp. p. 895; Gaz. vol. 151; p. 146.
George, Marion N., Irondale, Ala. Mail-bag deliverer. No. 964,231; July 12; Sp. p. 2621; Gaz. vol. 156; p. 431.
George, Newton R., Rochester, N. Y. Stropping device for safety-razors. No. 949,424; Feb. 15; Sp. p. 3464; Gaz. vol. 151; p. 605.
George P. Bent Company. (See Weiser, Frank J. W., assignor.)
George, Thomas E. (See Fetzer, Riley C., assignor.)
George, Thomas J., Inglewood, N. J. Building construction. No. 971,035; Sept. 27; Sp. p. 4040; Gaz. vol. 158; p. 716.
George W. Bartlett Rotary Engine Company. (See Bartlett, George W., assignor.)
George W. Smith & Company. (See Smith, Rayburn C., assignor.)
George Whiting Company. (See Whiting and Parcells, assignors.)
George, William H., Dexter, Iowa. Driving mechanism for washing-machines. No. 965,811; July 26; Sp. p. 6084; Gaz. vol. 156; p. 1031.
Georgeff, Evan, Seattle, Wash. Sash-closing mechanism. No. 970,036; Sept. 13; Sp. p. 1936; Gaz. vol. 158; p. 328.
Georgian Manufacturing Company, The. (See Nelson and Churchill, assignors.)
Geraerdts, Gerard H., New York, N. Y. Window-sill. No. 977,946; Dec. 6; Sp. p. 1133; Gaz. vol. 161; p. 182.
Geraghty, Fred C. (See Cathcart, Harry G., assignor.)
Gerald, August P., Jersey City, N. J. Tool for spreading boiler-tubes. No. 968,338; Aug. 23; Sp. p. 5336; Gaz. vol. 157; p. 919.
Gerald, August P., Jersey City, N. J. Flame or baffle bridge for water-tube boilers. No. 975,853; Nov. 15; Sp. p. 3917; Gaz. vol. 160; p. 660.
Gerald, Eugene E., Baltimore, Md. Automatic gas-igniter and safety device. No. 973,030; Oct. 18; Sp. p. 3364; Gaz. vol. 159; p. 582.
Gerald, Eugene E., Baltimore, Md. Automatic gas-igniter. No. 974,565; Nov. 1; Sp. p. 1135; Gaz. vol. 160; p. 171.
Geraldson, Gerald, Newcastle, Cal. Aeroplane. No. 963,543; July 5; Sp. p. 1164; Gaz. vol. 156; p. 178.
Geraldson, Gerald, Newcastle, Cal. Shoe-cleaning machine. No. 965,176; July 26; Sp. p. 4702; Gaz. vol. 156; p. 813.
Geraldson, Gerald, Newcastle, Cal. Aeroplane launcher and lander. No. 968,339; Aug. 23; Sp. p. 5339; Gaz. vol. 157; p. 920.
Gerard, Alonzo, Austin, Tex. Incubator. No. 964,509; July 19; Sp. p. 3208; Gaz. vol. 156; p. 555.
Gerard Ozone Process Company. (See Twombly, Alexander H., assignor.)
Gerard, William L., Bellingham, Wash. Receptacle for sputum. No. 975,854; Nov. 15; Sp. p. 3920; Gaz. vol. 160; p. 661.
Gerb, Fritz, Berlin, Germany. Bed-plate for machinery. No. 976,126; Nov. 15; Sp. p. 4457; Gaz. vol. 160; p. 754.
Gerb, William, Berlin, Germany. Device for grinding commutators or collecting-rings. No. 945,270; Jan. 4; Sp. p. 551; Gaz. vol. 150; p. 90.
Gerb, William, Berlin, Germany. Producing lithographic-printing plates. No. 956,764; May 3; Sp. p. 570; Gaz. vol. 154; p. 91.
Gerber, Emanuel, Kansas City, Mo. Motor-vehicle. No. 959,851; May 31; Sp. p. 7399; Gaz. vol. 154; p. 1253.
Gerberich, Clarence E., Aurora, assignor of one-half to A. Nelson, Montgomery, Ill. Shelving. No. 951,475; Mar. 8; Sp. p. 2065; Gaz. vol. 152; p. 358.
Gerbers Co. m. b. H., Dr. N. (See Wendler, Oscar, assignor.)
Gerdin, Sven P., Amal, Sweden. Sewing-machine table. No. 977,726; Dec. 6; Sp. p. 681; Gaz. vol. 161; p. 105.
Gerdom, Gregory, Watervliet, N. Y., assignor to Ordnance Improvement Company. Gas-check pad. No. 968,762; Aug. 30; Sp. p. 6257; Gaz. vol. 157; p. 1093.
Gerds, Charles L. (See Kelly and Gerds.)
Gerdtzen, Oscar, Valparaiso, Chile. Discharge-head for collapsible tubes. No. 975,348; Nov. 8; Sp. p. 2853; Gaz. vol. 160; p. 461.
Gerencier, Charles, Northampton, Pa. Cuspidor. No. 973,189; Oct. 18; Sp. p. 3732; Gaz. vol. 159; p. 637.
Gerhard, Frank F. (See Mills and Gerhard.)
Gerhardt, Eduard, Jr., Mauer, near Vienna, Austria-Hungary. Electric terminal. No. 967,631; Aug. 16; Sp. p. 3822; Gaz. vol. 157; p. 656.
Gerhardt, Smith K., East St. Louis, Ill. Folding car-step. No. 968,340; Aug. 23; Sp. p. 5340; Gaz. vol. 157; p. 920.
Gericke, Conrad. (See Wenkel, Max, assignor.)
Gering, Andrew, Chicago, Ill. Switch. No. 980,150; Dec. 27; Sp. p. 5933; Gaz. vol. 161; p. 1013.
Gerke, Henry W. (See Neff, Harry O., assignor.)
Gerken, Louis C., New York, N. Y. Carbureter for gas-engines. No. 970,916; Sept. 20; Sp. p. 3793; Gaz. vol. 158; p. 648.
Gerlache, Jean, Brussels, Belgium. Preserving wood. No. 959,505; May 31; Sp. p. 6683; Gaz. vol. 154; p. 1137.
Gerling, Charles H., assignor to Bernhardt Manufacturing Company, Edwardsville, Ill. Picker for potato-planters. No. 961,436; June 14; Sp. p. 2457; Gaz. vol. 155; p. 433.
Gerling, Herman, St. Louis, Mo. Combination dipper and funnel. No. 964,908; July 19; Sp. p. 4170; Gaz. vol. 156; p. 695.
Germain, Edward J. (See Rohr, Richard, assignor.)
Germain, Jules E., and G. A. Ossart, Rueil, assignors to J. A. G. Rousset, Vincennes, France. Lens-shaping machine. No. 947,774; Jan. 25; Sp. p. 6111; Gaz. vol. 150; p. 1019.
German-American Button Co. (See Hastings, Herbert, assignor.)
Gernaert, Jules, Brussels, Belgium. Manufacture of paper. No. 964,014; July 12; Sp. p. 2185; Gaz. vol. 156; p. 358.
Gernert, John. (See Palmer, Albert D., assignor.)
Gernet, Harry J., assignor of one-half to E. F. Gorman, Philadelphia, Pa. Support for automobile lamps and number-plates. No. 954,387; Apr. 5; Sp. p. 1464; Gaz. vol. 153; p. 244.
Gernsback, Hugo, New York, N. Y. Electrorheostat-regulator. No. 948,275; Feb. 1; Sp. p. 1010; Gaz. vol. 151; p. 166.
Gernsback, Hugo, New York, N. Y. Electro-adjustable condenser. No. 951,788; Mar. 8; Sp. p. 2694; Gaz. vol. 152; p. 464.
Gernsback, Hugo, New York, N. Y. Detectorium. No. 961,855; June 21; Sp. p. 3368; Gaz. vol. 155; p. 596.
Gernsback, Hugo, New York, N. Y. Relay. No. 978,999; Dec. 20; Sp. p. 3410; Gaz. vol. 161; p. 600.
Gerrard, Adam, Taunton, Mass. Rivet-drilling machine. No. 976,453; Nov. 22; Sp. p. 5252; Gaz. vol. 160; p. 891.
Gerrard, Clarence L., Columbus, Nebr. Apparatus for treating gas electrically. No. 968,145; Aug. 23; Sp. p. 4915; Gaz. vol. 157; p. 852.
Gerry, James A., Mechanic Falls, Me. Machine for cutting green corn. No. 954,085; Apr. 5; Sp. p. 808; Gaz. vol. 153; p. 140.
Gerson, Louis J., Philadelphia, Pa. Sound-reproducing machine. No. 962,565; June 28; Sp. p. 4933; Gaz. vol. 155; p. 864.
Gerst, Joseph C. H., Jr., St. Paul, Minn. Carrier. No. 945,513; Jan. 4; Sp. p. 1097; Gaz. vol. 150; p. 169.
Gerstenberg, Ernst, assignor to The Deis Pump Company, Washington, D. C. Pump. No. 955,960; Apr. 26; Sp. p. 4920; Gaz. vol. 153; p. 870.
Gerstenkorn, Adolph, Moorfleth, near Hamburg, Germany. Coin-controlled apparatus. No. 958,621; May 17; Sp. p. 4795; Gaz. vol. 154; p. 788.
Gerstenkorn, Adolph, Moorfleth, near Hamburg, Germany. Apparatus for stamping letters and other postal matter. No. 968,043; Aug. 23; Sp. p. 4681; Gaz. vol. 157; p. 818.
Gerstenkorn, Paul, Milwaukee, Wis. Machine for grinding cocks. No. 959,506; May 31; Sp. p. 6684; Gaz. vol. 154; p. 1137.
Gerster & Cie. (See Evers, Heinz, assignor.)
Gerster, Samuel W., Gerster, Mo. Milking-vessel support. No. 953,994; Apr. 5; Sp. p. 621; Gaz. vol. 153; p. 111.
Gerth, Frank, assignor of one-half to P. H. Wickord, Chicago, Ill. Clamping device. No. 962,566; June 28; Sp. p. 4935; Gaz. vol. 155; p. 864.
Gervin, Charles D., New York, N. Y. Switch for electric-light sockets. No. 967,753; Aug. 16; Sp. p. 4072; Gaz. vol. 157; p. 697.
Gervin, Charles D., New York, N. Y. Pendant-switch. No. 977,446; Dec. 6; Sp. p. 38; Gaz. vol. 161; p. 9.
Gervin, Charles D., assignor to J. H. Dale, New York, N. Y. Cluster lamp-socket. No. 949,533; Feb. 15; Sp. p. 3673; Gaz. vol. 151; p. 639.
Gervin, Charles D., assignor to J. H. Dale, New York, N. Y. Series lamp-receptacle. No. 966,681; Aug. 9; Sp. p. 1800; Gaz. vol. 157; p. 308.
Gerwig, Charles W. (See Bierce and Jones, assignors.)
Gerwig, Frederick H. N. (See Mohr and Gerwig.)
Géry, Paul H. J.-B. M. C. de, Nantes, France. Cord for surgical ligatures and other purposes. No. 977,383; Nov. 29; Sp. p. 7280; Gaz. vol. 160; p. 1236.
Gesellschaft für Drahtlose Telegraphie M. B. H. (See Schloemilch, Wilhelm, assignor.)
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schloemilch and Pichon, assignors.)

Alphabetical list of patentees—Continued.

Gesellschaft für Steiner's Malz-Entkeimungs-Putz und-Poliermaschinen mit beschränkter Haftung. (See Steiner, Isidor, assignor.)
Gess, Charles. (See Murphy and Gess.)
Gessi, Felix. (See Kostanjevic, Matzenik, and Gessi.)
Gessler, Maximilian, Milwaukee, Wis. Water-filter. No. 956,698; May 3; Sp. p. 435; Gaz. vol. 154; p. 69.
Gessler, Samuel, Chicago, Ill. Cigar. No. 973,497; Oct. 25; Sp. p. 4377; Gaz. vol. 159; p. 766.
Gessner, David, Worcester, Mass. Treating cloth. No. 946,915; Jan. 18; Sp. p. 4294; Gaz. vol. 150; p. 705.
Gessner, David, Worcester, Mass. Apparatus for treating cloth. No. 946,916; Jan. 18; Sp. p. 4299; Gaz. vol. 150; p. 706.
Gessner, David, Worcester, Mass. Cloth-treating apparatus. No. 975,349; Nov. 8; Sp. p. 2854; Gaz. vol. 160; p. 461.
Getchell, Frederic O., New Rockford, N. D. Cooking and heating apparatus. No. 961,437; June 14; Sp. p. 2458; Gaz. vol. 155; p. 433.
Gether, Charles R., Milwaukee, Wis. Rotary pump or air-compressor. No. 971,188; Sept. 27; Sp. p. 4368; Gaz. vol. 158; p. 766.
Getley, William, South Lorain, assignor of two-fifths to C. A. Smith, Lorain, Ohio. Safety device for gas-supply connections. No. 970,490; Sept. 20; Sp. p. 2869; Gaz. vol. 158; p. 501.
Getman, Anson, Johnstown, N. Y. Garden-hose supporter. No. 955,260; Apr. 19; Sp. p. 3381; Gaz. vol. 153; p. 602.
Getman, Charles W., Buffalo, assignor to Cruman-Caldwell Co., Lackawanna, N. Y. Concrete-block mold. No. 952,702; Mar. 22; Sp. p. 4577; Gaz. vol. 152; p. 830.
Getsinger, Jesse R., Level Land, S. C. Cotton-chopper. No. 952,443; Mar. 22; Sp. p. 3990; Gaz. vol. 152; p. 740.
Gettle, Thomas S. (See Winkelmeyer, John, assignor.)
Getty, Fred I., Jennings, La., assignor to C. F. Gillmann, New York, N. Y. Master-clock. No. 961,950; June 21; Sp. p. 3558; Gaz. vol. 155; p. 628.
Getty, Fred I., Jennings, La., assignor to C. F. Gillmann, New York, N. Y. Circuit-controller. No. 961,951; June 21; Sp. p. 3563; Gaz. vol. 155; p. 628.
Getty, Fred I., Jennings, La., assignor to C. F. Gillmann, New York, N. Y. Electric clock. No. 961,952; June 21; Sp. p. 3567; Gaz. vol. 155; p. 629.
Getty, John C., assignor of one-half to J. H. Dittman, Pittsburg, Pa. Rail. No. 958,486; May 17; Sp. p. 4538; Gaz. vol. 154; p. 743.
Getz, Alfred C., Sidney, Ohio. Universal woodworking-machine. No. 970,917; Sept. 20; Sp. p. 3794; Gaz. vol. 158; p. 648.
Geurink, Bernard A., East Cleveland, assignor to The Trenkamp Stove & Manufacturing Company, Cleveland, Ohio. Mixer for gas-burners. No. 946,345; Jan. 11; Sp. p. 2931; Gaz. vol. 150; p. 486.
Geurink, Bernard A., East Cleveland, assignor to The Trenkamp Stone & Manufacturing Company, Cleveland, Ohio. Valve. No. 955,862; Apr. 26; Sp. p. 4706; Gaz. vol. 153; p. 836.
Geurink, Bernard A., East Cleveland, assignor to The Trenkamp Stove & Manufacturing Company, Cleveland, Ohio. Gas-burner. No. 973,498; Oct. 25; Sp. p. 4377; Gaz. vol. 159; p. 766.
Geurink, Bernard A., East Cleveland, assignor to The Trenkamp Stove and Manufacturing Company, Cleveland, Ohio. Water-heater. No. 980,095; Dec. 27; Sp. p. 5794; Gaz. vol. 161; p. 993.
Geurink, Harry J., Cleveland, Ohio. Operating mechanism for drainage-plugs. No. 955,456; Apr. 19; Sp. p. 3798; Gaz. vol. 153; p. 667.
Geurink, Harry J., Cleveland, Ohio. Water-supply for flush-tanks. No. 955,457; Apr. 19; Sp. p. 3800; Gaz. vol. 153; p. 667.
Geverts, Frank J. (See Lisch, Jacob J., assignor.)
Gewerkschaft der Steinkohlenzeche Mont. Cenis. (See Caro, Nikodem, assignor.)
Gewerkschaft Pionier. (See Trainer, Ernst, assignor.)
Geyer, Albert H. F. (See Friedel, Robert, assignor.)
Geyer, William E., Cambridge, Mass. Fountain-pen. No. 949,425; Feb. 15; Sp. p. 3468; Gaz. vol. 151; p. 605.
Geyer, William E., Cambridge, Mass. Steering-gear. No. 950,818; Mar. 1; Sp. p. 770; Gaz. vol. 152: p. 122.
Gfeller, Frederick, Oakland, Cal. Valve for water-nozzles. No. 975,350; Nov. 8; Sp. p. 2863; Gaz. vol. 160; p. 461.
Gherassimoff, Nicolas. St. Petersburg, Russia. Gyroscopic rocket. No. 976,732; Nov. 22; Sp. p. 5813; Gaz. vol. 160; p. 985.
Gibbard, William F., Fruitvale, Cal. Sash-slide. No. 947,552; Jan. 25; Sp. p. 5693; Gaz. vol. 150; p. 945.
Gibberd, George W., and O. A. Elias, London, England. Telephone-mouthpiece. No. 979,467; Dec. 27; Sp. p. 4424; Gaz. vol. 161; p. 782.
Gibbins, Virginia, Fruitvale, Cal. Adjustable sewing-machine table. No. 958,800; May 24; Sp. p. 5190; Gaz. vol. 154; p. 874.
Gibbon, Robert J., Chicago, Ill. Storage-receptacle. No. 971,987; Oct. 4; Sp. p. 1062; Gaz. vol. 159; p. 178.
Gibbon, Robert J., Chicago, Ill., assignor, by mesne assignments, to International Device Company. Starting device for internal-combustion engines. No. 950,206; Feb. 22; Sp. p. 5159; Gaz. vol. 151; p. 905.
Gibbon, Robert J., Chicago, Ill., assignor, by mesne assignments, to International Device Company. Igniting device for internal-combustion engines. No. 950,228; Feb. 22; Sp. p. 5209; Gaz. vol. 151; p. 913.
Gibbons, William J., Philadelphia, Pa. Switch and fuse support. No. 953,782; Apr. 5; Sp. p. 197; Gaz. vol. 153; p. 36.
Gibbons, William J., Philadelphia, Pa. Switch and fuse supporting base. No. 965,514; July 26; Sp. p. 5443; Gaz. vol. 156; p. 928.
Gibbons, William J., Philadelphia, Pa. Combined junction-box and cut-out and switch-support. No. 967,632; Aug. 16; Sp. p. 3823; Gaz. vol. 157; p. 656.
Gibbs, Arthur S., Scranton, Pa. Electrical flasher. No. 977,294; Nov. 29; Sp. p. 7081; Gaz. vol. 160; p. 1205.
Gibbs, Bryce P., Los Angeles, Cal. Typewriter attachment. No. 972,358; Oct. 11; Sp. p. 1830; Gaz. vol. 159; p. 321.
Gibbs, Burdette B., Minneapolis, Minn. Trolley-wheel. No. 955,863; Apr. 26; Sp. p. 4708; Gaz. vol. 153; p. 836.
Gibbs, Charles, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 975,228; Nov. 8; Sp. p. 2606; Gaz. vol. 160; p. 421.
Gibbs, Charles, and J. Sokolov, assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 979,000; Dec. 20; Sp. p. 3411; Gaz. vol. 161; p. 600.
Gibbs, Charles E., Malden, Mass. Paper-file. No. 958,801; May 24; Sp. p. 5192; Gaz. vol. 154; p. 875.
Gibbs, Frank I., Birmingham, England. Producing metallic articles by electrodeposition. No. 975,386; Nov. 8; Sp. p. 2939; Gaz. vol. 160; p. 474.
Gibbs, Frederick H., New York, N. Y., assignor to American Car & Foundry Company, St. Louis, Mo. Brake-shoe. No. 961,344; June 14; Sp. p. 2282; Gaz. vol. 155; p. 403.
Gibbs, Harry A., Princeton, Ill. Machine for forming eaves-trough hangers. No. 973,648; Oct. 25; Sp. p. 4701; Gaz. vol. 159; p. 817.
Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-nozzle. No. 963,136; July 5; Sp. p. 276; Gaz. vol. 156; p. 38.
Gibbs, Isaac A., assignor of one-half to J. Rose, Roanoke, Va. Track-sanding apparatus. No. 946,346; Jan. 11; Sp. p. 2932; Gaz. vol. 150; p. 487.
Gibbs, James M., assignor of one-half to G. E. Powell, Santa Ana, Cal. Valve-seating attachment. No. 979,068; Dec. 20; Sp. p. 3557; Gaz. vol. 161; p. 622.
Gibbs, John C. (See Pletcher and Gibbs.)
Gibbs, Lewis, assignor to The Gibbs Manufacturing Company, Canton, Ohio. Hoop sizing and clamping device. No. 958,390; May 17; Sp. p. 4352; Gaz. vol. 154; p. 710.
Gibbs Manufacturing Company, The. (See Gibbs, Lewis, assignor.)
Gibbs Manufacturing Company, The. (See Maynard, William C., assignor.)
Gibbs, W. W. (See Lohman, Anthony, assignor.)
Gibbs, William D., Durham, N. H. Educational appliance. No. 977,793; Dec. 6; Sp. p. 819; Gaz. vol. 161; p. 127.
Gibbs, William E., Pittsburg, Pa. Mechanical player for organs. No. 979,284; Dec. 20; Sp. p. 4062; Gaz. vol. 161; p. 699.
Gibby Foundry Company. (See Decker, Edwin S., assignor.)
Gibford, Edward B., assignor to The Gibford Specialty Co., Adrian, Mich. Stropping-machine. No. 951,240; Mar. 8; Sp. p. 1566; Gaz. vol. 152; p. 281.
Gibford Specialty Co., The. (See Gibford, Edward B., assignor.)
Giblyn, Charles W., Glendale, and G. E. Gardner, Los Angeles, Cal. Toilet-seat paper and holder therefor. No. 965,515; July 26; Sp. p. 5444; Gaz. vol. 156; p. 929.
Gibson, Angus H. (See Roberts and Gibson.)
Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Electropneumatic track-channeler. No. 962,755; June 28; Sp. p. 5319; Gaz. vol. 155; p. 929.
Gibson, Calder C., Buffalo, N. Y. Rubber stamp. No. 972,359; Oct. 11; Sp. p. 1831; Gaz. vol. 159; p. 321.
Gibson, Charles A., *et al.* (See Brooks, Evert P., assignor.)
Gibson, David N., Pittsburg, Pa. Water-heating apparatus. No. 949,298; Feb. 15; Sp. p. 3178; Gaz. vol. 151; p. 560.
Gibson, Edward T., Brooklyn, N. Y. Doll. No. 952,731; Mar. 22; Sp. p. 4633; Gaz. vol. 152; p. 840.
Gibson, Edwin, and J. Burns, Hornell, N. Y. Gasket-tool. No. 971,672; Oct. 4; Sp. p. 342; Gaz. vol. 159; p. 60.
Gibson, Hugh S., Cincinnati, Ohio. Machine for sealing envelops. No. 961,117; June 14; Sp. p. 1772; Gaz. vol. 155; p. 322.
Gibson, Hugo C., New York, N. Y. Internal-combustion engine. No. 965,135; July 19; Sp. p. 4609; Gaz. vol. 156; p. 768.
Gibson, Hugo C., New York, N. Y. Muffler. No. 969,101; Aug. 30; Sp. p. 6929; Gaz. vol. 157; p. 1207.
Gibson, Humphrey M., assignor of one-third to J. A. Paasche and one-third to J. Waage, Chicago, Ill. Exhibitor. No. 949,569; Feb. 15; Sp. p. 3753; Gaz. vol. 151; p. 652.

Alphabetical list of patentees—Continued.

Gibson, Irvin, assignor of one-fourth to W. I. Hawkins, Pittsburg, Pa. Combined receiving and storing apparatus. No. 967,121; Aug. 9; Sp. p. 2784; Gaz. vol. 157; p. 456.

Gibson, James A. (See Jones and Gibson.)

Gibson, James J., Homestead, and C. L. W. Trinks, Pittsburg, Pa.; said Trinks assignor to said Gibson. Positive-displacement rotary blower. No. 974,481; Nov. 1; Sp. p. 939; Gaz. vol. 160; p. 139.

Gibson, James J., Homestead, and C. L. W. Trinks, Pittsburg, Pa.; said Trinks assignor to said Gibson. Sound-deadener for rotary blowers. No. 976,063; Nov. 15; Sp. p. 4313; Gaz. vol. 160; p. 732.

Gibson, John H., Greenville, Pa. Shock-absorber. No. 951,070; Mar. 1; Sp. p. 1228; Gaz. vol. 152; p. 202.

Gibson Mandolin-Guitar Company. (See Laurian, George D., assignor.)

Gibson, Paul E. (See Towne and Gibson.)

Gibson, Robert A., Berkeley, and J. B. Sartolou, Emeryville, Cal. Music-leaf turner. No. 979,942; Dec. 27; Sp. p. 5463; Gaz. vol. 161; p. 944.

Gibson, Robert L., Philadelphia, Pa. Sound-box for talking-machines. No. 954,953; Apr. 12; Sp. p. 2753; Gaz. vol. 153; p. 466.

Gibson, Robert L., Philadelphia, Pa., assignor to Victor Talking Machine Company. Talking-machine. No. 957,206; May 10; Sp. p. 1529; Gaz. vol. 154; p. 270.

Gibson, Robert L., Philadelphia, Pa., assignor to Victor Talking Machine Company. Supporting device for sound-box arms and horns of talking-machines. No. 958,109; May 17; Sp. p. 3626; Gaz. vol. 154; p. 611.

Gibson, Rupert R., Waco, Tex. Cotton-chopper. No. 952,007; Mar. 15; Sp. p. 3146; Gaz. vol. 152; p. 566.

Gibson, Rupert R., Waco, Tex. Cotton-chopper. No. 965,888; Aug. 2; Sp. p. 92; Gaz. vol. 157; p. 15.

Gibson, William A., Peoria, Ill. Water heater and purifier. No. 973,773; Oct. 25; Sp. p. 4948; Gaz. vol. 159; p. 861.

Gibson, William W., assignor of one-half to D. W. Hanbury, Victoria, British Columbia, Canada. Flying-machine. No. 978,732; Dec. 13; Sp. p. 2849; Gaz. vol. 161; p. 483.

Gielow, Emil, *et al.* (See Gielow, John, assignor.)

Gielow, John, Congress Park, assignor of one-third to E. Gielow, Chicago, one-third to M. Gielow, Congress Park, and one-third to W. H. Puscheck, Chicago, Ill. Faucet. No. 955,641; Apr. 19; Sp. p. 4209; Gaz. vol. 153; p. 731.

Gielow, Maria, *et al.* (See Gielow, John, assignor.)

Gierding, Charles E., Belleville, N. J. Bracket for supporting smoke-canopies. No. 950,043; Feb. 22; Sp. p. 4832; Gaz. vol. 151; p. 849.

Gierding, Charles E., assignor to Sterling-Meaker Company, Newark, N. J. Trolley-base. No. 970,211; Sept. 13; Sp. p. 2306; Gaz. vol. 158; p. 387.

Gierke, John, Fayette, Mich. Self-clearing gill-net-lifting machine. No. 948,760; Feb. 8; Sp. p. 2095; Gaz. vol. 151; p. 355.

Giermann, Wilhelm A., Blencoe, Iowa. End-gate. No. 967,181; Aug. 16; Sp. p. 2907; Gaz. vol. 157; p. 504.

Gierth, William, Newark, assignor of one-half to E. E. Decker, Elizabeth, and one-half to H. Gries, Bloomfield, N. J. Plumber's torch. No. 965,136; July 19; Sp. p. 4612; Gaz. vol. 156; p. 769.

Giesberg, John G., Houston, Tex. Polishing-machine. No. 964,101; July 12; Sp. p. 2371; Gaz. vol. 156; p. 389.

Giese, Robert W., Philadelphia, Pa. Garment-hanger. No. 977,727; Dec. 6; Sp. p. 682; Gaz. vol. 161; p. 106.

Giesecke, Julius, B. F. Nebergall, and G. F. Oheim, New Braunfels, Tex. Bookbinder's gluing-press. No. 972,617; Oct. 11; Sp. p. 2422; Gaz. vol. 159; p. 413.

Gieseke, Henry J. C., Jersey City, N. J. Mechanical stoker. No. 945,322; Jan. 4; Sp. p. 690; Gaz. vol. 150; p. 107.

Gieselmann, Edward, assignor of one-fourth to E. H. Meyer and one-fourth to G. Gieselmann, Mount Olive, Ill. Cultivator. No. 976,864; Nov. 29; Sp. p. 6127; Gaz. vol. 160; p. 1056.

Gieselmann, George, *et al.* (See Gieselmann, Edward, assignor.)

Giesler, Arthur, assignor to The Platt Iron Works Co., Dayton, Ohio. Multistage centrifugal pump. No. 948,292; Feb. 1; Sp. p. 1064; Gaz. vol. 151; p. 172.

Giffee, William M., Green, Kans. Trace-buckle. No. 957,415; May 10; Sp. p. 1978; Gaz. vol. 154; p. 342.

Giffen, James F. (See Nefflen and Giffen.)

Giffen, Otto A., San Gabriel, Cal. Gas-cut-off valve. No. 954,180; Apr. 5; Sp. p. 1024; Gaz. vol. 153; p. 174.

Gifford, F. H. (See McComber, Frank A., assignor.)

Gifford, John H., Milwaukee, Wis. Shoe-sole-drying machine. No. 973,422; Oct. 18; Sp. p. 4211; Gaz. vol. 159; p. 717.

Gifford, Lester R., Westmont, Pa. Concrete-metal railway-tie. No. 975,855; Nov. 15; Sp. p. 3922; Gaz. vol. 160; p. 661.

Gifford, Mark E., Wessington, S. D. Gate. No. 967,754; Aug. 16; Sp. p. 4074; Gaz. vol. 157; p. 698.

Gifford, Robert L., *et al.* (See Nistle, George W., assignor.)

Gifford, Robert L. (See Nistle and Gifford.)

Gilbert & Barker Manufacturing Company. (See Barker, John F., Jr., assignor.)

Gilbert & Barker Manufacturing Company. (See Hatmaker, Charles F., assignor.)

Gilbert, Edward R., Kittanning, Pa. Wrench. No. 976,064; Nov. 15; Sp. p. 4314; Gaz. vol. 160; p. 732.

Gilbert, Elam, Portland, Oreg.; M. R. Gilbert guardian of said Elam Gilbert, insane. Record-ejector for phonographs. No. 969,946; Sept. 13; Sp. p. 1732; Gaz. vol. 158; p. 297.

Gilbert, Garrett, *et al.* (See Storne, William H., assignor.)

Gilbert, Harold A., New York, N. Y. Conduit-outlet. No. 949,628; Feb. 15; Sp. p. 3854; Gaz. vol. 151; p. 672.

Gilbert, Harris & Company. (See Sauter, Herman, assignor.)

Gilbert, Henry J., Saginaw, Mich. Pulley. No. 955,864; Apr. 26; Sp. p. 4709; Gaz. vol. 153; p. 836.

Gilbert, Henry J., Saginaw, Mich. Pulley. No. 966,541; Aug. 9; Sp. p. 1523; Gaz. vol. 157; p. 261.

Gilbert, Henry W., assignor to The Spirella Company, Meadville, Pa. Waist-girdle. No. 950,907; Mar. 1; Sp. p. 936; Gaz. vol. 152; p. 150.

Gilbert, Henry W., and E. M. Martin, assignors to The Spirella Company, Meadville, Pa. Corset. No. 956,957; May 3; Sp. p. 1000; Gaz. vol. 154; p. 157.

Gilbert, Jacob, assignor, by mesne assignments, to National Novelty Company, Nashville, Tenn. Straw holder and dispenser. No. 967,014; Aug. 9; Sp. p. 2550; Gaz. vol. 157; p. 419.

Gilbert, James E., assignor, by mesne assignments, to Gilbert Slip-Sheeting Machine Company, Chicago, Ill. Smut-sheeting machine. No. 966,739; Aug. 9; Sp. p. 1939; Gaz. vol. 157; p. 328.

Gilbert, James W. (See Benjamin and Gilbert.)

Gilbert, Joseph M., Mount Vernon, N. Y. Automobile-wheel. No. 979,468; Dec. 27; Sp. p. 4425; Gaz. vol. 161; p. 782.

Gilbert, Joseph N., Chicago, Ill. Gate-valve. No. 971,673; Oct. 4; Sp. p. 343; Gaz. vol. 159; p. 60.

Gilbert, Louis H., Lowell, Mass. Game. No. 951,212; Mar. 8; Sp. p. 1507; Gaz. vol. 152; p. 272.

Gilbert, Mattie R., guardian. (See Gilbert, Elam.)

Gilbert, Perry R., Chambersburg, Pa., assignor of one-half to S. R. Gilbert, Washington, D. C. Lock for umbrellas, canes, and the like. No. 977,612; Dec. 6; Sp. p. 446; Gaz. vol. 161; p. 66.

Gilbert, Royal H., Lakewood, Ohio. Driving-axle. No. 949,179; Feb. 15; Sp. p. 2936; Gaz. vol. 151; p. 520.

Gilbert, Royal H., Lakewood, Ohio. Rear-axle construction. No. 962,633; June 28; Sp. p. 5065; Gaz. vol. 155; p. 886.

Gilbert, Royal H., Lakewood, Ohio. Driving-gearing. No. 973,031; Oct. 18; Sp. p. 3365; Gaz. vol. 159; p. 582.

Gilbert Slip-Sheeting Machine Company. (See Gilbert, James E., assignor.)

Gilbert, Stanley R. (See Gilbert, Perry R., assignor.)

Gilbert, Walter V., London, England. Resilient compound lever. No. 966,325; Aug. 2; Sp. p. 999; Gaz. vol. 157; p. 161.

Gilbert, William, Sterling, Colo. Brush-cutter. No. 951,812; Mar. 15; Sp. p. 2746; Gaz. vol. 152; p. 502.

Gilbertson, George, Bloomfield, Nebr. Cultivator. No. 979,150; Dec. 20; Sp. p. 3779; Gaz. vol. 161; p. 654.

Gilbreth, Frank B., New York, N. Y. Concrete construction. No. 960,305; June 7; Sp. p. 129; Gaz. vol. 155; p. 25.

Gilbride, Thomas F., New York, assignor of one-half to W. H. Diamond, Poughkeepsie, N. Y. Amusement apparatus. No. 971,003; Sept. 20; Sp. p. 3955; Gaz. vol. 158; p. 676.

Gilchrist, Benjamin W. (See Emery and Gilchrist.)

Gilchrist, Benjamin W. (See Rice and Gilchrist.)

Gilchrist, John E., South Bend, Wash. Pulley-block. No. 977,613; Dec. 6; Sp. p. 448; Gaz. vol. 161; p. 67.

Gilchrist, Joseph J., Pittsburg, Pa. Apparatus for recovering alcohol from the lining of barrels, &c. No. 951,110; Mar. 8; Sp. p. 1311; Gaz. vol. 152; p. 240.

Gilchrist, Raymond B., Newark, N. J. Squeezer. No. 952,519; Mar. 22; Sp. p. 4160; Gaz. vol. 152; p. 766.

Gilchrist, William A. (See Dickinson and Gilchrist.)

Gildenmeister, Auguste. (See Delpeuch, Leon A., assignor.)

Giles, Chesley T. J., Greenville, S. C. Hinge. No. 950,386; Feb. 22; Sp. p. 5504; Gaz. vol. 151; p. 964.

Giles, Chesley T. J., Greenville, S. C. Hinge. No. 960,085; May 31; Sp. p. 7947; Gaz. vol. 154; p. 1334.

Giles, Chesley T. J., Greenville, S. C. Latch. No. 974,566; Nov. 1; Sp. p. 1137; Gaz. vol. 160; p. 171.

Giles, David, Chattanooga, Tenn., assignor to United States Cast Iron Pipe & Foundry Company. Sand cooling and tempering apparatus. No. 952,897; Mar. 22; Sp. p. 4983; Gaz. vol. 152; p. 896.

Giles, Edwin S., assignor of one-half to J. McClellan, Owosso, Mich. Combined feed-roller and pressure-guide. No. 963,217; July 5; Sp. p. 492; Gaz. vol. 156; p. 68.

Giles, Henry S., *et al.* (See Geier, James, assignor.)

Giles, Isaac W., New Bedford, and C. W. Tobey, Fairhaven, Mass. Sparking device. No. 947,155; Jan. 18; Sp. p. 4740; Gaz. vol. 150; p. 781.

Giles, W. Trickett. (See Westphal, Albert, assignor.)

Alphabetical list of patentees—Continued.

Gilfillan, Essington N. (See Casey, James P., assignor.)
Gilfillan, Essington N., Chicago, Ill. Pocket-scale. No. 960,535; June 7; Sp. p. 610; Gaz. vol. 155; p. 98.
Gilfillan, Essington N., Syracuse, N. Y., assignor to Continental Paper Bag Company. Carton. No. 961,491; June 14; Sp. p. 2588; Gaz. vol. 155; p. 451.
Gilfillan, Essington N., Syracuse, assignor of fifty-one one-hundredths to J. Hunter, Fulton, N. Y. Cigar-wrapper. No. 961,692; June 14; Sp. p. 2988; Gaz. vol. 155; p. 518.
Gilfillan, Essington N., Syracuse, assignor of fifty-one one-hundredths to J. Hunter, Fulton, N. Y. Closure for receptacles. No. 970,037; Sept. 13; Sp. p. 1937; Gaz. vol. 158; p. 328.
Gilfillan, Essington N., and E. Schinscholl, Syracuse, N. Y., assignors to Continental Paper Bag Company. Carton-machine. No. 964,232; July 12; Sp. p. 2624; Gaz. vol. 156; p. 432.
Gilges, Dudley H., Baldwin, Kans. Lace-cutting implement. No. 974,766; Nov. 1; Sp. p. 1555; Gaz. vol. 160; p. 240.
Gilkeson, Rush S., Detroit, Mich. Toy. No. 968,549; Aug. 30; Sp. p. 5781; Gaz. vol. 157; p. 1018.
Gilkison, Frank E., *et al.* (See Batchelor, Henry, assignor.)
Gill, Benjmen F., and J. D. Kizer, Scranton, Pa. Stove-lid. No. 952,008; Mar. 15; Sp. p. 3149; Gaz. vol. 152; p. 567.
Gill, Charles W., Syracuse, N. Y. Seal-lock. No. 962,827; June 28; Sp. p. 5462; Gaz. vol. 155; p. 954.
Gill & Company. (See Donohoe, Michael, assignor.)
Gill, Edwin R., Yonkers, N. Y., assignor to United States Electric Company. Answer-back signal. No. 978,733; Dec. 13; Sp. p. 2851; Gaz. vol. 161; p. 483.
Gill, George W. (See Alther, Henry J., assignor.)
Gill, James F., and T. C. Aveling, Birmingham, England. Toy. No. 946,669; Jan. 18; Sp. p. 3706; Gaz. vol. 150; p. 620.
Gill, Seth E., Brooklyn, N. Y. Non-refillable bottle. No. 976,065; Nov. 15; Sp. p. 4315; Gaz. vol. 160; p. 732.
Gill, Thomas E., Canton, Ohio. File-handle. No. 958,622; May 17; Sp. p. 4797; Gaz. vol. 154; p. 788.
Gillam, Manly M., New York, N. Y. Catamenial bandage. No. 951,184; Mar. 8; Sp. p. 1458; Gaz. vol. 152; p. 264.
Gillaspie, Wellington, Elizabeth, W. Va. Sled. No. 966,006; Aug. 2; Sp. p. 344; Gaz. vol. 157; p. 56.
Gille, Charles N., Omaha, Nebr. Milk-refrigerating apparatus. No. 968,550; Aug. 30; Sp. p. 5782; Gaz. vol. 157; p. 1018.
Gilleland, Edgar B., Wichita, Kans., assignor, by mesne assignments, to The Automatic Steel Grain Door Company, Pierre, S. D. Grain-door. No. 967,870; Aug. 16; Sp. p. 4301; Gaz. vol. 157; p. 736.
Gilleland, Marion A., Stonewall, Miss. Machine for stacking cotton. No. 952,108; Mar. 15; Sp. p. 3331; Gaz. vol. 152; p. 600.
Gilleland, Samuel G., Kansas City, Mo. Baling-press. No. 968,650; Aug. 30; Sp. p. 5991; Gaz. vol. 157; p. 1053.
Gillies, John. (See Walker and Gilles.)
Gillespie, Alfred J., assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Support for voting-machines. No. 945,230; Jan. 4; Sp. p. 466; Gaz. vol. 150; p. 77.
Gillespie, Alfred J., Atlantic, Iowa, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Irregular mechanism of voting-machines. No. 945,714; Jan. 4; Sp. p. 1507; Gaz. vol. 150; p. 236.
Gillespie, Alfred J., Atlantic, Iowa, and W. J. Lausterer, Jamestown, N. Y., assignors, by mesne assignments, to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Controlling mechanism for voting-machines. No. 972,527; Oct. 11; Sp. p. 2208; Gaz. vol. 159; p. 381.
Gillespie, Earl C., Woodhaven, N. Y. Take-up device for guy-wires. No. 976,865; Nov. 29; Sp. p. 6128; Gaz. vol. 160; p. 1056.
Gillespie, James, Chicago, Ill. Riveting-machine. No. 972,689; Oct. 11; Sp. p. 2562; Gaz. vol. 159; p. 430.
Gillespie, James A., and M. J. Corey, Coalinga, Cal. Pipe-tongs. No. 946,506; Jan. 11; Sp. p. 2377; Gaz. vol. 150; p. 542.
Gillespie, Jane E., Atlanta, Ga. Hanging basket. No. 951,684; Mar. 8; Sp. p. 2473; Gaz. vol. 152; p. 428.
Gillespie, John, Detroit, Mich. Trick-chair No. 945,032; Jan. 4; Sp. p. 50; Gaz. vol. 150; p. 10.
Gillet, Joseph, Schöneberg, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Instrument for determining the position of an organ or the like within human bodies. (Reissue.) No. 13,089; Mar. 8; Sp. p. 2698; Gaz. vol. 152; p. 465.
Gillette, Cassius E., *et al.* (See Moran, Thomas, assignor.)
Gillette, Charles J., Washington, D. C. Measuring device. No. 976,066; Nov. 15; Sp. p. 4317; Gaz. vol. 160; p. 733.
Gillette, George H., New York, N. Y., assignor to Armstrong Cork Company, Pittsburg, Pa. Treating cork articles. No. 946,216; Jan. 11; Sp. p. 2646; Gaz. vol. 150; p. 440.
Gillette, John R., *et al* (See Sutton, Henry G., assignor.)
Gillette, Mott G., assignor to D. S. De Jongh, New York, N. Y. Cigarette-former. No. 961,118; June 14; Sp. p. 1777; Gaz. vol. 155; p. 322.
Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
Gillette, Walter A., Los Angeles, Cal. Rotary road-scarifier. No. 978,016; Dec. 6; Sp. p. 1282; Gaz. vol. 161; p. 205.
Gillette, William R., Chicago, Ill. Powder-box. No. 965,291; July 26; Sp. p. 4937; Gaz. vol. 156; p. 851.
Gilliam Manufacturing Company, The. (See Krug, Dayton, assignor.)
Gilliam, Thomas J., Houma, La. Shaping-machine. No. 975,946; Nov. 15; Sp. p. 4102; Gaz. vol. 160; p. 692.
Gilliard, Ernest T., assignor to T. C. O'Connor, New York, N. Y. Internal-combustion engine. No. 955,151; Apr. 19; Sp. p. 3139; Gaz. vol. 153; p. 564.
Gillie, John W., North Shields, England. Artificial horizon. No. 971,189; Sept. 27; Sp. p. 4372; Gaz. vol. 158; p. 767.
Gillies, Alexander, Heidelberg, Victoria, Australia. Pneumatic milking apparatus. No. 947,156; Jan. 18; Sp. p. 4741; Gaz. vol. 150; p. 781.
Gillies, John. (See McPhee and Gillies.)
Gilligan, Bernard C., assignor to L. A. Gilligan, Toledo, Ohio. Blowpipe. No. 976,796; Nov. 22; Sp. p. 5967; Gaz. vol. 160; p. 1007.
Gilligan, John, Nebraska City, Nebr. Reinforced concrete construction. No. 979,285; Dec. 20; Sp. p. 4067; Gaz. vol. 161; p. 699.
Gilligan, Joseph J., *et al.* (See Rager, Reuben M., assignor.)
Gilligan, Luvina A. (See Gilligan, Bernard C., assignor.)
Gilliland, Alexander, Bellevue, Pa. Knockdown scaffold. No. 964,233; July 12; Sp. p. 2629; Gaz. vol. 156; p. 432.
Gilliland, Lee O., assignor of one-half to R. Reichardt, Chicago, Ill. Rotary engine. No. 976,355; Nov. 22; Sp. p. 5037; Gaz. vol. 160; p. 855.
Gilliland, Maria A., Brookline, Mass. Skimmer. No. 976,733; Nov. 22; Sp. p. 5814; Gaz. vol. 160; p. 985.
Gillinder, Edgar A., Philadelphia, Pa. Reflector for incandescent lamps. No. 960,306; June 7; Sp. p. 131; Gaz. vol. 155; p. 25.
Gillis, William C. (See Clark and Gillis.)
Gillitt, Fredric C., Hastings, Minn. Clamp. No. 971,438; Sept. 27; Sp. p. 4840; Gaz. vol. 158; p. 847.
Gillmann, Charles F. (See Getty, Fred I., assignor.)
Gillmor, Horatio G., Bath, Me., assignor to C. A. Price, Quincy, Mass. Means of forming rail-joints. No. 970,810; Sept. 20; Sp. p. 3597; Gaz. vol. 158; p. 615.
Gilman, Frederick J., assignor of one-fourth to H. A. Allan, Montreal, Quebec, Canada. Transporter-rail. No. 979,469; Dec. 27; Sp. p. 4428; Gaz. vol. 161; p. 783.
Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Fluid-pressure-actuated impact-tool. No. 974,375; Nov. 1; Sp. p. 672; Gaz. vol. 160; p. 101.
Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Conveying apparatus. No. 947,592; Jan. 25; Sp. p. 5776; Gaz. vol. 150; p. 960.
Gilman, John J. (See Malloy, Thomas, assignor.)
Gilman, Leander F., Spokane, Wash. Coffer-dam for placer-mining and pier-building. No. 946,841; Jan. 18; Sp. p. 4108; Gaz. vol. 150; p. 680.
Gilmer, John T., Florala, Ala. Sap or gum extractor. No. 961,953; June 21; Sp. p. 3571; Gaz. vol. 155; p. 629.
Gilmore, Andrew R., Mason, Ill. Planter. No. 961,769; June 21; Sp. p. 3164; Gaz. vol. 155; p. 568.
Gilmore, Arthur F. (See Stone, Charles W., assignor.)
Gilmore, Eva, Hamilton, Ontario, Canada. Curtain-ring. No. 971,263; Sept. 27; Sp. p. 4524; Gaz. vol. 158; p. 791.
Gilmore, George J., Chicago, Ill. Fireproof receptacle for films of moving-picture apparatus. No. 976,067; Nov. 15; Sp. p. 4318; Gaz. vol. 160; p. 733.
Gilmore, George J., Chicago, Ill. Film-cabinet. No. 976,068; Nov. 15; Sp. p. 4320; Gaz. vol. 160; p. 733.
Gilmore, Ira F., Bloomington, Ill. Piano-action. No. 967,015; Aug. 9; Sp. p. 2552; Gaz. vol. 157; p. 419.
Gilmore, John, Montrose, S. D. Reinforced concrete structure. No. 963,218; July 5; Sp. p. 493; Gaz. vol. 156; p. 68.
Gilmore, John E., Sullivan, Ind., and W. E. Gilmore, Winterhaven, Fla. Pump. No. 951,908; Mar. 15; Sp. p. 2957; Gaz. vol. 152; p. 535.
Gilmore, Judson B., Dubuque, Iowa. Step-ladder attachment. No. 967,898; Aug. 23; Sp. p. 4359; Gaz. vol. 157; p. 769.
Gilmore, William E. (See Gilmore, John E. and W. E.)
Gilmore, William E., Holmesville, Ohio. Envelop. No. 964,234; July 12; Sp. p. 2630; Gaz. vol. 156; p. 433.
Gilmore, Willis B., Idaho Springs, Colo. Spinning device. No. 945,934; Jan. 11; Sp. p. 2071; Gaz. vol. 150; p. 344.
Gilmore, Willis B., Idaho Springs, Colo. Spinning device. No. 967,756; Aug. 16; Sp. p. 4076; Gaz. vol. 157; p. 698.
Gilmour Hogshead Machine Company. (See Gilmour, John, assignor.)
Gilmour, Hugh K., Owensboro, Ky. Egg-beater and cream-whipper. No. 959,731; May 31; Sp. p. 7141; Gaz. vol. 154; p. 1212.
Gilmour, John, Owensboro, Ky., assignor to Gilmour Hogshead Machine Company. Machine for making casks. No. 962,210; June 21; Sp. p. 4132; Gaz. vol. 155; p. 717.

Alphabetical list of patentees—Continued.

Gilpin, Elijah B., Philadelphia, Pa. Offal-bag for horses and the like. No. 962,211; June 21; Sp. p. 4133; Gaz. vol. 155; p. 717.

Gilroy, Frank J., Buffalo, N. Y. Pneumatic padlock. No. 948,853; Feb. 8; Sp. p. 2272; Gaz. vol. 151; p. 386.

Gilson, John E., assignor to Gilson Manufacturing Company, Port Washington, Wis. Internal-combustion engine. No. 960,536; June 7; Sp. p. 613; Gaz. vol. 155; p. 99.

Gilson Manufacturing Company. (See Gilson, John E., assignor.)

Gilson, Samuel H., assignor of one-third to J. S. Milner, Salt Lake City, Utah. Aeroplane. No. 964,771; July 19; Sp. p. 3892; Gaz. vol. 156; p. 646.

Gilstrap, David P., Brownwood, Tex. Fish-net. No. 957,766; May 10; Sp. p. 2686; Gaz. vol. 154; p. 462.

Giltner, William H., Paris, Ky. Engine-governor attachment. No. 974,655; Nov. 1; Sp. p. 1315; Gaz. vol. 160; p. 203.

Gimbel, Frank J., Allegheny, Pa. Newspaper-holder. No. 964,154; July 12; Sp. p. 2474; Gaz. vol. 156; p. 406.

Gin, Gustave, Paris, France. Device for singeing textile fabrics. No. 962,828; June 28; Sp. p. 5465; Gaz. vol. 155; p. 954.

Gin, Gustave, Paris, France. Device for singeing textile fabrics. (Reissue.) No. 13,154; Oct. 4; Sp. p. 1359; Gaz. vol. 159; p. 229.

Gin, Gustave, Paris, France, assignor to F. B. Crocker, New York, N. Y. Electric furnace for transforming pig-iron into steel. No. 970,700; Sept. 20; Sp. p. 3342; Gaz. vol. 158; p. 574.

Ginaca, Henry G., assignor of two-fifths to A. Gartenberg, Honolulu, Hawaii. Sugar-cane harvester. No. 953,265; Mar. 29; Sp. p. 5777; Gaz. vol. 152; p. 1046.

Ginaca, Henry G., assignor of two-fifths to A. Gartenberg, Honolulu, Hawaii. Sugar-cane bundler. No. 953,329; Mar. 29; Sp. p. 5909; Gaz. vol. 152; p. 1067.

Ginn, Blanch W. (See Averbeck and Ginn.)

Ginn, Blanch W., assignor to Lovell & Buffington Tobacco Company, Covington, Ky. Tobacco-ordering machine. No. 975,412; Nov. 15; Sp. p. 2989; Gaz. vol. 160; p. 508.

Giolitti, Federico, Rome, assignor to Società Anonima Italiana Gio. Ansaldo Armstrong & C., Genoa, Italy. Armor-plate and other article of steel. No. 946,428; Jan. 11; Sp. p. 3200; Gaz. vol. 150; p. 515.

Giolitti, Federico, Rome, assignor to Societa Anonima Italiana Gio Ansaldo Armstrong & Co., Genoa, Italy. Manufacturing armor-plates for protecting ships and other steel object or objects made from an alloy of steel. No. 947,486; Jan. 25; Sp. p. 5557; Gaz. vol. 150; p. 923.

Giorgi, Amedeo, Florence, Italy. Means for lighting and extinguishing gas-lamps. No. 965,102; July 19; Sp. p. 4550; Gaz. vol. 156; p. 759.

Giovannini, Sebastiano, Chicago, Ill. Means for propelling boats. No. 957,550; May 10; Sp. p. 2248; Gaz. vol. 154; p. 389.

Girand, Wilberforce D., Abilene, Tex. Word-counting device for type-writers. No. 954,277; Apr. 5; Sp. p. 1231; Gaz. vol. 153; p. 205.

Girard, Aimé D., Ware, Mass. Window-alarm. No. 945,935; Jan. 11; Sp. p. 2073; Gaz. vol. 150; p. 345.

Girard, Ferdinand, Paris, France. Suspension for bars on lathes for dressing, cutting, or working the same. No. 962,829; June 28; Sp. p. 5466; Gaz. vol. 155; p. 955.

Girard, Louis B., assignor to The Girard Manufacturing Company, Los Angeles, Cal. Tack forming and driving die. No. 953,416; Mar. 29; Sp. p. 6111; Gaz. vol. 152; p. 1098.

Girard, Louis B., assignor to The Girard Manufacturing Company, Los Angeles, Cal. Machine for fastening shades on rollers. No. 976,356; Nov. 22; Sp. p. 5040; Gaz. vol. 160; p. 856.

Girard Manufacturing Company, The. (See Girard, Louis B., assignor.)

Girard, William. (See Barell and Girard.)

Girndt, Otto, Oberneukirch in the Lausitz, Germany. Device for the automatic introduction of cloth between calender-rollers. No. 946,429; Jan. 11; Sp. p. 3202; Gaz. vol. 150; p. 515.

Girod, Paul, Ugine, France. Crown or cover of electric furnaces. No. 956,699; May 3; Sp. p. 437; Gaz. vol. 154; p. 69.

Girod, Paul, Ugine, France. Electric furnace for metallurgical purposes. (Reissue.) No. 13,186; Dec. 27; Sp. p. 6007; Gaz. vol. 161; p. 1022.

Giroud, Felipe, New York, N. Y. Paper-sheet-feed mechanism. No. 946,347; Jan. 11; Sp. p. 2934; Gaz. vol. 150; p. 487.

Giroud, Felipe, New York, N. Y. Machine for wrapping various articles. No. 968,146; Aug. 23; Sp. p. 4917; Gaz. vol. 157; p. 852.

Giroux, Ovila T., Salem, Mass. Collapsible barrel. No. 948,318; Feb. 8; Sp. p. 1122; Gaz. vol. 151; p. 206.

Girt, Charles A., J. T. Wilson, and A. Atkins, Rainier, Oreg. Independent car-axle. No. 977,002; Nov. 29; Sp. p. 6475; Gaz. vol. 160; p. 1104.

Girtanner, Frederick, assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Ash-drag. No. 968,844; Aug. 30; Sp. p. 6415; Gaz. vol. 157; p. 1118.

Girvin, Lincoln A., Toledo, Assignor to The Novelty Iron Company, Canton, Ohio. Adjustable ventilating connection for radiators. No. 977,088; Nov. 29; Sp. p. 6647; Gaz. vol. 160; p. 1133.

Gish, John L., South Bend, Ind. Regulated automatic-closing valve. No. 946,217; Jan. 11; Sp. p. 2648; Gaz. vol. 150; p. 441.

Gissot, Emmanuel L. J., Vanves, France. Pneumatic apparatus. No. 947,176; Jan. 18; Sp. p. 4780; Gaz. vol. 150; p. 788.

Gist, William V., Sparta, Tenn. Whiffletree. No. 957,551; May 10; Sp. p. 2250; Gaz. vol. 154; p. 389.

Gist, William V., Sparta, Tenn. Bolt-holder. No. 960,307; June 7; Sp. p. 133; Gaz. vol. 155; p. 26.

Gist, William V., Sparta, Tenn. Wagon-jack. No. 964,235; July 12; Sp. p. 2631; Gaz. vol. 156; p. 433.

Githens, George S., *et al.* (See Haskell, Frank H., assignor.)

Gits, Alphons H., Chicago, Ill. Transmission-belt. No. 979,151; Dec. 20; Sp. p. 3781; Gaz. vol. 161; p. 654.

Gittins, Charles E., Twickenham, England. Automatic piano-player. No. 979,470; Dec. 27; Sp. p. 4430; Gaz. vol. 161; p. 783.

Giulio, Biondi, Silverton, Colo. Pool-table. No. 964,236; July 12; Sp. p. 2632; Gaz. vol. 156; p. 433.

Giusto, Nicola, and C. De-Felice, New York, N. Y. Repeating firearm or rifle. No. 964,419; July 12; Sp. p. 2990; Gaz. vol. 156; p. 493.

Givens, Charles H., Wawona, Cal. Vehicle-wheel support. No. 955,790; Apr. 19; Sp. p. 4526; Gaz. vol. 153; p. 782.

Glackmeyer, Alexandrine, *et al.* (See Marchand, Omer, assignor.)

Gladback, Peter, Mendon, Mo. Rake. No. 957,947; May 17; Sp. p. 3087; Gaz. vol. 154; p. 553.

Gladding, Samuel E., Jersey City, N. J. Faucet attachment. No. 971,602; Oct. 4; Sp. p. 202; Gaz. vol. 159; p. 36.

Glaeser, Henry, Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 974,958; Nov. 8; Sp. p. 2013; Gaz. vol. 160; p. 329.

Glafcke, Charles L., Michigan City, Ind. Filing-case. No. 965,177; July 26; Sp. p. 4704; Gaz. vol. 156; p. 814.

Glahn, Charles Von. Watervliet, N. Y. Paper-feeding apparatus. No. 977,146; Nov. 29; Sp. p. 6790; Gaz. vol. 160; p. 1154.

Glandon, Alexander H., Wabedo, Minn. Car-door. No. 967,757; Aug. 16; Sp. p. 4077; Gaz. vol. 157; p. 698.

Glannon, John P., *et al.* (See Eakin and Deboo, assignors.)

Glannon, John P., assignor of one-half to J. A. Seiler, Pittsburg, Pa. Flushing-tank. No. 949,927; Feb. 22; Sp. p. 4525; Gaz. vol. 151; p. 808.

Glasel, Charles J., Boston, Mass. Treating hides or skins. No. 952,703; Mar. 22; Sp. p. 4579; Gaz. vol. 152; p. 830.

Glasel, Charles J., Boston, Mass. Automatic tanning-machine. (Reissue.) No. 13,116; May 17; Sp. p. 4979; Gaz. vol. 154; p. 818.

Glasel, Charles J., Washington, D. C. Apparatus for treating hides. No. 970,701; Sept. 20; Sp. p. 3344; Gaz. vol. 158; p. 574.

Glaser, Charles, and G. J. Muller, Baltimore, Md. Refining salt and recovering its impurities as by-products. No. 957,416; May 10; Sp. p. 1979; Gaz. vol. 154; p. 343.

Glaser, Charles, and G. J. Muller, Baltimore, Md. Refining salt. No. 957,417; May 10; Sp. p. 1986; Gaz. vol. 154; p. 343.

Glaser, George, Halleck, Nebr. Straw-hoisting net. No. 980,096; Dec. 27; Sp. p. 5796; Gaz. vol. 161; p. 994.

Glaser, Manuel, and B. Wainblatt, assignors, by mesne assignments, to American Looking-Glass Co., New York, N. Y. Apparatus for silvering glass plates. No. 952,191; Mar. 15; Sp. p. 3479; Gaz. vol. 152; p. 626.

Gläser, Max. (See Thième and Gläser.)

Glasgow, Samuel G. H., Palestine, Tex. Shoe-blackener. No. 959,507; May 31; Sp. p. 6686; Gaz. vol. 154; p. 1138.

Glaspy, John S. (See Finley and Glaspy.)

Glass, Charles L., Joplin, Mo. Shoveling-machine. No. 971,036; Sept. 27; Sp. p. 4044; Gaz. vol. 158; p. 716.

Glass Enameled Package Co., The. (See Shields, George, assignor.)

Glass, Max, Vienna, Austria-Hungary. Torpedo. No. 957,670; May 10; Sp. p. 2494; Gaz. vol. 154; p. 431.

Glass, Max, Vienna, Austria-Hungary. Briqueting fines of ore, furnace-dust, waste metal, waste iron, &c. No. 958,623; May 17; Sp. p. 4797; Gaz. vol. 154; p. 788.

Glass, Max, Vienna, Austria-Hungary. Briqueting fines of ore, furnace-dust, waste metal, waste iron, &c. No. 958,700; May 17; Sp. p. 4947; Gaz. vol. 154; p. 813.

Glass, Max, Vienna, Austria-Hungary. Briqueting fines of ore, furnace-dust, waste metal, waste iron, &c. No. 958,701; May 17; Sp. p. 4948; Gaz. vol. 154; p. 813.

Glass, Max, Vienna, Austria-Hungary. Double-walled exploding projectile. No. 965,812; July 26; Sp. p. 6086; Gaz. vol. 156; p. 1032.

Glass, Max, Vienna, Austria-Hungary. Filling for exploding projectiles. No. 969,102; Aug. 30; Sp. p. 6932; Gaz. vol. 157; p. 1207.

Glass, Max, Vienna, Austria-Hungary. Turbine. No. 972,762; Oct. 11; Sp. p. 2715; Gaz. vol. 159; p. 462.

Alphabetical list of patentees—Continued.

Glass, Max, Vienna, Austria-Hungary. Means for increasing tension of gaseous propellants for torpedoes. No. 973,774; Oct. 25; Sp. p. 4952; Gaz. vol. 159; p. 861.
Glass, Perley R. (See Welsh, Morris, assignor.)
Glass, Perley R., Quincy, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Loading mechanism for hand-tackers. No. 957,948; May 17; Sp. p. 3090; Gaz. vol. 154; p. 553.
Glass, Perley R., Quincy,, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Lasting-machine. No. 957,949; May 17; Sp. p. 3093; Gaz. vol. 154; p. 553.
Glass, Perley R., Quincy, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Automatic rotary shoe-jack. No. 957,950; May 17; Sp. p. 3102; Gaz. vol. 154; p. 554.
Glass, Robert W., Pueblo, Colo. Clothes-clamp. No. 945,451; Jan. 4; Sp. p. 951; Gaz. vol. 150; p. 150.
Glasspoole, Charles E., St. Paul, Minn. Quack-grass plow. No. 945,734; Jan. 4; Sp. p. 1580; Gaz. vol. 150; p. 243.
Glauber, Elkan W., St. Louis, Mo. Shirt holder and protector. No. 947,302; Jan. 25; Sp. p. 5099; Gaz. vol. 150; p. 861.
Glaum, Conrad, Audubon, Minn. Nut-lock. No. 974,786; Nov. 8; Sp. p. 1607; Gaz. vol. 160; p. 270.
Glaus, Christian, Milwaukee, Wis. Butter-cutting tool. No. 956,072; Apr. 26; Sp. p. 5169; Gaz. vol. 153; p. 910.
Glaus, Christian, Milwaukee, Wis. Butter-treating apparatus. No. 959,508; May 31; Sp. p. 6688; Gaz. vol. 154; p. 1138.
Glaus, Christian, Milwaukee, Wis. Butter-cutting tool. No. 969,947; Sept. 13; Sp. p. 1733; Gaz. vol. 158; p. 298.
Glauser, Frederick. (See Pagnard, Munson, and Glauser.)
Glauser, Gustave, Girardot, Colombia, assignor to Ferd. Esser & Co., Hamburg, Germany. Implement for tapping trees. No. 978,366; Dec. 13; Sp. p. 2047; Gaz. vol. 161; p. 357.
Glawatzky, Kasimir, Philadelphia, Pa. Life-saving fire-escape. No. 978,447; Dec. 13; Sp. p. 2220; Gaz. vol. 161; p. 385.
Glaxon, Adolphe J. (See Reese and Glaxon.)
Glaze, Herbert L., assignor of two-thirds to Young Construction Co., Los Angeles, Cal. Scraper-bucket. No. 976,163; Nov. 22; Sp. p. 4562; Gaz. vol. 160; p. 789.
Glazier, Lyman G., Pomfret Center, Conn. Burglar-proof safe door. No. 958,624; May 17; Sp. p. 4799; Gaz. vol. 154; p. 788.
Glazier, Peter F., Indianapolis, Ind. Play-pipe pressure-equalizer. No. 968,462; Aug. 23; Sp. p. 5575; Gaz. vol. 157; p. 962.
Gleason, Frederick J., assignor to Walpole Rubber Company, Walpole, Mass. Making hollow rubber articles. No. 964,510; July 19; Sp. p. 3209; Gaz. vol. 156; p. 556.
Gleason, James E., assignor to Gleason Works, Rochester, N. Y. Gear-generating machine. No. 950,766; Mar. 1; Sp. p. 649; Gaz. vol. 152; p. 105.
Gleason, John E., Havelock, Nebr. Locomotive-cylinder cock. No. 952,898; Mar. 22; Sp. p. 4984; Gaz. vol. 152; p. 896.
Gleason, Lafayette B. (See Alperin, Bernard A., assignor.)
Gleason, Lafayette B. (See Kallis and Berg, assignors.)
Gleason, M. B. (See McGann, Thomas W. J., assignor.)
Gleason, Michael, Hamilton, Ohio. Crate-machine. No. 961,954; June 21; Sp. p. 3573; Gaz. vol. 155; p. 629.
Gleason, Odiorne J. W., Worcester, Mass. Mail-box. No. 969,948; Sept. 13; Sp. p. 1734; Gaz. vol. 158; p. 298.
Gleason Works. (See Gleason, James E., assignor.)
Gledhill, Joseph S., Plymouth, Mass., and H. D. Belmer, Jersey City, N. J., assignors to The International Filter Company, New York, N. Y. Filter. No. 965,451; July 26; Sp. p. 5297; Gaz. vol. 156; p. 905.
Glencoe Foundry and Machine Company, The. (See Anderson, John S., assignor.)
Glendining, Robert. (See Beaumont, George, assignor.)
Glendinning, Thomas A., assignor to William Mann Company, New York, N. Y. Ledger-locking device. No. 954,791; Apr. 12; Sp. p. 2376; Gaz. vol. 153; p. 410.
Glenn, John S., West Covington, Ky. Drill-brace. No. 971,037; Sept. 27; Sp. p. 4047; Gaz. vol. 158; p. 717.
Glenn, William, Mount Vernon, Iowa. Voting-machine. No. 957,326; May 10; Sp. p. 1795; Gaz. vol. 154; p. 314.
Glenn, William H., Hempstead, N. Y. Valve. No. 977,614; Dec. 6; Sp. p. 450; Gaz. vol. 161; p. 67.
Glidden, Charles C., Birmingham, Ala. Fluid pulsating apparatus. No. 969,782; Sept. 13; Sp. p. 1373; Gaz. vol. 158; p. 241.
Glidden, George B., Dighton, assignor to George Frost Company, Boston, Mass. Display-package for garters. No. 978,367; Dec. 13; Sp. p. 2049; Gaz. vol. 161; p. 357.
Glidden, Wilmot W. (See Foster and Glidden.)
Glidden, Wright L., Brooklyn, N. Y. Extension ladder and trestle. No. 947,810; Feb. 1; Sp. p. 58; Gaz. vol. 151; p. 13.
Glidden, Wright L., Brooklyn, N. Y. Clamp. No. 947,811; Feb. 1; Sp. p. 59; Gaz. vol. 151; p. 13.
Glines, Earl C., Leominster, Mass., assignor of two-thirds to I. E. Glines and one-third to J. W. Bond, Providence, R. I. Barrette. No. 979,471; Dec. 27; Sp. p. 4432; Gaz. vol. 161; p. 783.
Glines, Ida E., *et al.* (See Glines, Earl C., assignor.)
Glinicke, Albert, Berlin, and K. Zehnpfund, Friedenau, near Berlin, Germany. Inverted incandescent lamp for liquid combustibles. No. 950,908; Mar. 1; Sp. p. 937; Gaz. vol. 152; p. 150.
Glise, Roy C., Prosper, Minn. Loading apparatus. No. 947,902; Feb. 1; Sp. p. 263; Gaz. vol. 151; p. 43.
Glise, Roy C., Prosper, Minn. Scraper. No. 970,323; Sept. 13; Sp. p. 2520; Gaz. vol. 158; p. 425.
Globe Ear-Phone Company. (See Barber, Raymond J., assignor.)
Globe Machine & Stamping Company, The. (See Abbott, George E., assignor.)
Globe Manufacturing Company. (See Watkins, Orla H., assignor.)
Globe Register Company, The. (See Konerman, Harry, assignor.)
Globe Steel Filtration Process Company, The. (See Hawkins and Key, assignors.)
Globe Vending Company. (See Hagen, Erik S., assignor.)
Globe-Wernicke Company, The. (See Senge, Liborius, assignor.)
Gloor, Edwin, Webster Groves, and W. W. Pascal, assignors to Commonwealth Feed Mills Company, St. Louis, Mo. Alfalfa feed mixture. No. 969,267; Sept. 6; Sp. p. 248; Gaz. vol. 158; p. 40.
Glor, Alvin J. (See Glor, Robert M. and A. J.)
Glor Brothers & Willis Manufacturing Company. (See Glor, Robert M. and A. J., assignors.)
Glor, Robert M., Attica, N. Y. Stanchion. No. 972,849; Oct. 18; Sp. p. 2913; Gaz. vol. 159; p. 518.
Glor, Robert M. and A. J., assignors to Glor Brothers & Willis Manufacturing Company, Attica, N. Y. Carrier for fertilizers, litter, and other materials. No. 956,073; Apr. 26; Sp. p. 5170; Gaz. vol. 153; p. 911.
Glosser, Frank D., assignor of one-half to A. J. Berry, Marion, Ohio. Measuring instrument. No. 967,510; Aug. 16; Sp. p. 3587; Gaz. vol. 157; p. 615.
Glossinger, John, Chicago, Ill. Sample-case. No. 974,874; Nov. 8; Sp. p. 1805; Gaz. vol. 160; p. 299.
Glover, Charles. (See Bartels, William A., assignor.)
Glover, Charles. (See Jones, Horace K., assignor.)
Glover, Charles, New Britain, Conn. Hinge. No. 958,740; May 24; Sp. p. 5047; Gaz. vol. 154; p. 853.
Glover, Charles, New Britain, Conn. Grinding and polishing disk. No. 959,054; May 24; Sp. p. 5721; Gaz. vol. 154; p. 961.
Glover, Charles, New Britain, Conn. Coaster-brake. No. 959,509; May 31; Sp. p. 6689; Gaz. vol. 154; p. 1138.
Glover, Charles, New Britain, Conn. Coaster-brake. No. 961,225; June 14; Sp. p. 1998; Gaz. vol. 155; p. 361.
Glover, Clare G., New York, N. Y., assignor to Henry A. Muller Company. Wire-stitching machine. No. 946,799; Jan. 18; Sp. p. 4008; Gaz. vol. 150; p. 665.
Glover, George A., Bristol, Tenn. Door-hanger. No. 966,007; Aug. 2; Sp. p. 345; Gaz. vol. 157; p. 56.
Gluck, David L. (See Meyerheim, Max, assignor.)
Gluck, Isidore. (See Topp, Orla, assignor.)
Glymps, Frank W., assignor of nine-tenths to E. E. Peterson, Shinglehouse, and G. M. Corwin, Oswayo, Pa. Lifter. No. 957,463; May 10; Sp. p. 2072; Gaz. vol. 154; p. 359.
Glynn, Charles N., Philadelphia, Pa., assignor to Barbour-Stockwell Company. Switch structure. No. 972,104; Oct. 4; Sp. p. 1273; Gaz. vol. 159; p. 216.
Glynn, Cyrus L., Boston, Mass. Spring grip-holder for wire cord. No. 977,384; Nov. 29; Sp. p. 7283; Gaz. vol. 160; p. 1237.
Gmelin, Jacob H., Bay City, Mich. Sand and gravel screen. No. 964,237; July 12; Sp. p. 2634; Gaz. vol. 156; p. 433.
Gnoeth, Emil, Madisonville, assignor to The International Harness Machinery Company, Cincinnati, Ohio. Thong-stitch sewing-machine. No. 978,017; Dec. 6; Sp. p. 1284; Gaz. vol. 161; p. 205.
Goad, James H., Ryan, Okla. Tie attachment. No. 968,044; Aug. 23; Sp. p. 4683; Gaz. vol. 157; p. 818.
Gober, Richard, Alameda, Cal. Vacuum-sweeper. No. 971,743; Oct. 4; Sp. p. 493; Gaz. vol. 159; p. 85.
Goble, Christopher C., Byron, Nebr. Machine for shearing metal. No. 973,032; Oct. 18; Sp. p. 3368; Gaz. vol. 159; p. 583.
Goble, Frank. (See Hughes, Robert M., assignor.)
Goble, Frank, Fairpoint, Ohio. Package-holder. No. 957,767; May 10; Sp. p. 2687; Gaz. vol. 154; p. 462.
Goble, Frank, Fairpoint, Ohio. Currycomb. No. 972,690; Oct. 11; Sp. p. 2564; Gaz. vol. 159; p. 436.
Goble, James F. S., New Albin, Iowa. Clamping device for grinding lawn-mowers. No. 960,163; May 31; Sp. p. 8087; Gaz. vol. 154; p. 1360.
Goble, William A., Conway Springs, Kans. Plumb-level attachment. No. 969,855; Sept. 13; Sp. p. 1547; Gaz. vol. 158; p. 265.
Goble, William E., Dinuba, Cal. Aerial machine. No. 945,514; Jan. 4; Sp. p. 1099; Gaz. vol. 150; p. 169.
Godard, Henry M. (See Ells, Hallett D., assignor.)
Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. Multiplying-back for cameras. No. 953,005; Mar. 22; Sp. p. 5198; Gaz. vol. 152; p. 932.

Alphabetical list of patentees—Continued.

Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. Film-pack adapter. No. 968,341; Aug. 23; Sp. p. 5343; Gaz. vol. 157; p. 921.

Goddard, Walter T., assignor to The Locke Insulator Mfg. Co., Victor, N. Y. Insulator. No. 947,516; Jan. 25; Sp. p. 5625; Gaz. vol. 150; p. 934.

Goddard, Walter T., assignor to Locke Insulator Manufacturing Company, Victor, N. Y. High-voltage switch. No. 959,929; May 31; Sp. p. 7578; Gaz. vol. 154; p. 1280.

Goddard, Walter T., assignor to Locke Insulator Manufacturing Company, Victor, N. Y. Insulator-base. No. 979,840; Dec. 27; Sp. p. 5259; Gaz. vol. 161; p. 910.

Goddard, William B., Brooklyn, N. Y. Metal barrel. No. 971,439; Sept. 27; Sp. p. 4841; Gaz. vol. 158; p. 847.

Goddin, George J., and H. B. Evans, Elkins, W. Va. Sled-knee. No. 970,324; Sept. 13; Sp. p. 2522; Gaz. vol. 158; p. 426.

Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company. Machine for driving fastenings into work. No. 950,693; Mar. 1; Sp. p. 488; Gaz. vol. 152; p. 79.

Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-attaching apparatus. No. 970,702; Sept. 20; Sp. p. 3346; Gaz. vol. 158; p. 575.

Godeau, Pierre L. M., Paris, France. Change-speed gear. No. 971,744; Oct. 4; Sp. p. 494; Gaz. vol. 159; p. 86.

Godek, Boleslas A., Paris, France. Elastic tire for vehicle-wheels. No. 961,955; June 21; Sp. p. 3574; Gaz. vol. 155; p. 630.

Godfrey, J. B. (See Reilly, Michael E., assignor.)

Goding, Edwin L., Sanford, assignor to O. A. Miller Treeing Machine Company, Portland, Me. Block-last. No. 956,576; May 3; Sp. p. 152; Gaz. vol. 154; p. 26.

Godlewski, Anthony, St. Louis, Mo. Drill. No. 959,055; May 24; Sp. p. 5722; Gaz. vol. 154; p. 961.

Godman, Emory J., and W. H. Niemeyer, Baltimore, Md., assignors to H. F. Griffith, Philadelphia, Pa. Machine for sealing bottles. No. 961,603; June 14; Sp. p. 2819; Gaz. vol. 155; p. 488.

Godward, Frank, Bergholz, Ohio. Railway-tie. No. 961,294; June 14; Sp. p. 2157; Gaz. vol. 155; p. 385.

Godwin, Ellis, Concord, N. C. Wire-stretcher. No. 951,111; Mar. 8; Sp. p. 1313; Gaz. vol. 152; p. 241.

Goe, Henry H., Prescott, Wash. Weeding-machine. No. 970,212; Sept. 13; Sp. p. 2308; Gaz. vol. 158; p. 388.

Goeb, Rudolph W. (See Ketcheson and Goeb.)

Goeb, Rudolph W., assignor to Development & Investment Company, St. Louis, Mo. Machine for printing address-strips. No. 947,303; Jan. 25; Sp. p. 5102; Gaz. vol. 150; p. 862.

Goebel, Herman. (See Collins, John M., assignor.)

Goebel, John, assignor to Jasper & Goebel, New York, N. Y. Sanitary drinking-fountain. No. 970,213; Sept. 13; Sp. p. 2310; Gaz. vol. 158; p. 388.

Goebel, William, assignor of forty-five one-hundredths to J. M. Collins, Chicago, Ill. Soil-stack fitting. No. 974,875; Nov. 8; Sp. p. 1806; Gaz. vol. 160; p. 300.

Goedecker, Adolph, West Hoboken, N. J. Collector. No. 948,924; Feb. 8; Sp. p. 2402; Gaz. vol. 151; p. 409.

Goehner, Fred, Buffalo, N. Y. Flying-machine. No. 979,472; Dec. 27; Sp. p. 4433; Gaz. vol. 161; p. 783.

Goehst, John H., assignor to Federal Electric Company, Chicago, Ill. Electric-lamp socket. No. 968,147; Aug. 23; Sp. p. 4924; Gaz. vol. 157; p. 853.

Goehst, John H., and J. A. Dunlap, assignors to Federal Electric Company, Chicago, Ill. Vacuum cleaning device. No. 950,767; Mar. 1; Sp. p. 660; Gaz. vol. 152; p. 106.

Goeke, Ernest, Baxter, Iowa. Pail-tilting device. No. 950,444; Feb. 22; Sp. p. 5612; Gaz. vol. 151; p. 984.

Goeltz, Henry C., St. Paul, Minn. Combined sad-iron heater and oven. No. 950,020; Feb. 22; Sp. p. 4791; Gaz. vol. 151; p. 842.

Goerk, Jacob, Irvington, N. J. Desk-pad. No. 970,811; Sept. 20; Sp. p. 3607; Gaz. vol. 158; p. 615.

Goeth, Richard A., San Antonio, Tex. Automobile-pump. No. 950,283; Feb. 22; Sp. p. 5317; Gaz. vol. 151; p. 932.

Goetsche, Charles H. (See Shields and Goetsche.)

Goetz, Charley G., and B. Piechowski, Bay City, Mich. Circular-crosscut-saw-filing machine. No. 953,134; Mar. 29; Sp. p. 5502; Gaz. vol. 152; p. 1004.

Goetz, Edward C. (See Keller and Goetz.)

Goetz, George, assignor to Streeter Amet Weighing and Recording Company, Chicago, Ill. Metal-turning tool-holder and tool. No. 946,599; Jan. 18; Sp. p. 3547; Gaz. vol. 150; p. 597.

Goetz, George, assignor to Streeter-Amet Weighing & Recording Company, Chicago, Ill. Automatic recording car-scale. No. 946,600; Jan. 18; Sp. p. 3548; Gaz. vol. 150; p. 597.

Goetz, George, assignor to Streeter-Amet Weighing and Recording Company, Chicago, Ill. Automatic weighing and recording car-scale. No. 946,601; Jan. 18; Sp. p. 3552; Gaz. vol. 150; p. 598.

Goetz, George, assignor to Streeter-Amet Weighing & Recording Company, Chicago, Ill. Automatic car weighing and recording scale. No. 978,874; Dec. 20; Sp. p. 3119; Gaz. vol. 161; p. 553.

Goetz, George, assignor to Streeter Amet Weighing & Recording Company, Chicago, Ill. Recording car-scale. No. 979,401; Dec. 20; Sp. p. 4277; Gaz. vol. 161; p. 735.

Goetz, Henry A., New Albany, Ind., assignor to American Pulverizer Company, St. Louis, Mo. Pulverizer. No. 945,160; Jan. 4; Sp. p. 317; Gaz. vol. 150; p. 53.

Goetz, Henry A., New Albany, Ind., assignor to American Pulverizer Company, St. Louis, Mo. Screening mechanism. No. 950,170; Feb. 22; Sp. p. 5080; Gaz. vol. 151; p. 892.

Goetz, Leon E., Monroe, Wis. Submarine boat. No. 960,537; June 7; Sp. p. 615; Gaz. vol. 155; p. 99.

Goewey, James E., Newark, N. J., assignor to Diamond Expansion Bolt Company. Toggle-bolt. No. 979,841; Dec. 27; Sp. p. 5260; Gaz. vol. 161; p. 911.

Goff, Arthur, Edwardsville, Ill. Clothes-line. No. 951,185; Mar. 8; Sp. p. 1459; Gaz. vol. 152; p. 264.

Goff, Emet, Hillsboro, Oreg. Whip-lock. No. 951,730; Mar. 8; Sp. p. 2558; Gaz. vol. 152; p. 443.

Goff, Frank C., Denver, Colo. Heating system. No. 957,156; May 3; Sp. p. 1392; Gaz. vol. 154; p. 223.

Goff, George W. (See Abell, Irvin H., assignor.)

Goff, George W. (See Kidney, Josiah R., assignor.)

Goff, Richard C., Charlottetown, Prince Edward Island, Canada. Shirt. No. 967,182; Aug. 16; Sp. p. 2909; Gaz. vol. 157; p. 504.

Goff, Samuel B., Camden, N. J. Device for applying adhesive material to bottles, &c. No. 950,207; Feb. 22; Sp. p. 5162; Gaz. vol. 151; p. 905.

Goff, Samuel B., Camden, N. J. Wave-power. No. 959,214; May 24; Sp. p. 6064; Gaz. vol. 154; p. 1014.

Goff, Samuel B., Camden, N. J. Snow-melter. No. 961,604; June 14; Sp. p. 2823; Gaz. vol. 155; p. 488.

Goheen, Leonard L., Sherwood, N. D. Clothes-pin. No. 945,033; Jan. 4; Sp. p. 53; Gaz. vol. 150; p. 10.

Goheen, Leonard L., Sherwood, N. D. Portable fire-curtain. No. 956,335; Apr. 26; Sp. p. 5748; Gaz. vol. 153; p. 1000.

Goheen, Leonard L., Sherwood, N. D. Weed, stubble, and seed burning machine. No. 978,875; Dec. 20; Sp. p. 3122; Gaz. vol. 161; p. 554.

Gohl, Friedrich L., Arlen, near Singen, Germany. Ink-stand. No. 979,473; Dec. 27; Sp. p. 4435; Gaz. vol. 161; p. 784.

Gohl, John J., Petoskey, assignor of one-half to D. J. Macdonald, Cheboygan, Mich. Fire-kindling compound. No. 947,101; Jan. 18; Sp. p. 4643; Gaz. vol. 150; p. 766.

Gohlke, Max, Berlin, and B. Eitner, Reinickendorf-West, near Berlin, Germany. Antifriction-bearing. No. 956,700; May 3; Sp. p. 438; Gaz. vol. 154; p. 70.

Gohmann, Charles L., New Albany, Ind. Stove. No. 967,364; Aug. 16; Sp. p. 3273; Gaz. vol. 157; p. 567.

Gohring, Herman C., Spokane, Wash. Sausage-linking machine. No. 972,181; Oct. 11; Sp. p. 1461; Gaz. vol. 159; p. 260.

Gohy, Jean, Ensival, near Verviers, Belgium. Machine for the production of paper tubes. No. 968,241; Aug. 23; Sp. p. 5135; Gaz. vol. 157; p. 884.

Going, William J., Amsterdam, N. Y. Forming blanks. No. 961,119; June 14; Sp. p. 1778; Gaz. vol. 155; p. 322.

Gold Car Heating & Lighting Company. (See Robertson, Henry M., assignor.)

Gold, Edward E., New York, N. Y. Coupling. No. 947,280; Jan. 25; Sp. p. 5049; Gaz. vol. 150; p. 854.

Gold, Edward E., New York, N. Y. Coupling. No. 947,487; Jan. 25; Sp. p. 5559; Gaz. vol. 150; p. 923.

Gold, Edward E., New York, N. Y. Hose-coupling. No. 963,137; July 5; Sp. p. 278; Gaz. vol. 156; p. 38.

Gold, Egbert H., Chicago, Ill. Hose-coupling. No. 948,667; Feb. 8; Sp. p. 1875; Gaz. vol. 151; p. 323.

Gold, Egbert H., Chicago, Ill. Thawing device for drip-pipes. No. 978,150; Dec. 13; Sp. p. 1591; Gaz. vol. 161; p. 282.

Gold Medal Camp Furniture Mfg. Co. (See Rasmussen, Rudolph C., assignor.)

Gold, William. (See Sobel, Gold, and Stretch.)

Goldbach, William, Meriden, Conn. Caster. No. 950,154; Feb. 22; Sp. p. 5038; Gaz. vol. 151; p. 886.

Goldberg, Charlotte, Chicago, Ill. Garment-receptacle. No. 969,468; Sept. 6; Sp. p. 657; Gaz. vol. 158; p. 105.

Goldberg, Georg, assignor of two-thirds to I. Kokosky and M. H. G. Th. Fiedeldy Dop, Amsterdam, Netherlands. Valve for carbonated-liquid receptacles. No. 965,704; July 26; Sp. p. 5860; Gaz. vol. 156; p. 995.

Goldberg, Wolf, New York, N. Y. Clutch device. No. 951,882; Mar. 15; Sp. p. 2901; Gaz. vol. 152; p. 525.

Goldblatt, Edward J., Chicago, Ill. Electrically-ignited burner. No. 977,521; Dec. 6; Sp. p. 233; Gaz. vol. 161; p. 35.

Golden, Alphonsus L., Oakland, Cal. Telautograph instrument. No. 957,050; May 3; Sp. p. 1183; Gaz. vol. 154; p. 188.

Golden-Anderson Valve Specialty Company. (See Kennington, George B., assignor.)

Golden, Asher. (See Landau and Golden.)

Golden, Charles E. (See Anderson, Edward V., assignor.)

Golden, Charles E., Crafton, Pa. Non-return-valve mechanism. No. 948,445; Feb. 8; Sp. p. 1399; Gaz. vol. 151; p. 249.

Alphabetical list of patentees—Continued.

Golden, Harry, Blytheville, Ark. Dog for log-wagons. No. 951,213; Mar. 8; Sp. p. 1508; Gaz. vol. 152; p. 272.
Golden, Joseph, Brooklyn, N. Y. Multiple door-bolt. No. 966,195; Aug. 2; Sp. p. 759; Gaz. vol. 157; p. 120.
Golden, Maximilian K., and W. H. Kendall, assignors to Crown Hat Manfg. Co., Detroit, Mich. Power-transmission mechanism. No. 963,138; July 5; Sp. p. 281; Gaz. vol. 156; p. 39.
Golden, Percy N., Elizabeth, N. J. Printing device for meters. No. 946,755; Jan. 18; Sp. p. 3894; Gaz. vol. 150; p. 649.
Golden, Victor E., Byron, Nebr. Match-safe. No. 958,802; May 24; Sp. p. 5193; Gaz. vol. 154; p. 875.
Golden, William E., Fremont, Ohio. Wrench. No. 967,899; Aug. 23; Sp. p. 4360; Gaz. vol. 157; p. 769.
Goldenetz, Albert, Defiance, Ohio. Folding box. No. 952,444; Mar. 22; Sp. p. 3992; Gaz. vol. 152; p. 740.
Goldenetz, Albert, Defiance, Ohio. Folding box. No. 952,445; Mar. 22; Sp. p. 3996; Gaz. vol. 152; p. 741.
Goldenstein, William H., and T. Voigt, Danforth, Ill. Whip-socket. No. 948,319; Feb. 8; Sp. p. 1124; Gaz. vol. 151; p. 206.
Goldfield, Abraham T., New York, N. Y. Toy. No. 972,691; Oct. 11; Sp. p. 2566; Gaz. vol. 159; p. 437.
Goldie, William, Jr., Bay City, Mich. Manufacture of tie-plates. No. 964,511; July 19; Sp. p. 3214; Gaz. vol. 156; p. 556.
Goldie, William, Jr., Bay City, Mich. Apparatus for making tie-plates. No. 968,148; Aug. 23; Sp. p. 4926; Gaz. vol. 157; p. 853.
Golding, George W., Lodi, N. Y. Device for laying off wooden axles. No. 945,515; Jan. 4; Sp. p. 1101; Gaz. vol. 150; p. 169.
Goldman, Albert P., Chillicothe, Ill. Car-coupling. No. 960,538; June 7; Sp. p. 617; Gaz. vol. 155; p. 100.
Goldman, Allie E., Galena, Kans. Tire-protector. No. 954,730; Apr. 12; Sp. p. 2237; Gaz. vol. 153; p. 388.
Goldman, Henry, Berlin-Friedenau, Germany. Calculating-machine. No. 956,846; May 3; Sp. p. 755; Gaz. vol. 154; p. 119.
Goldman, Hymen. (See Ackerman, Maurice, assignor.)
Goldman, Sigmund L., Chicago, Ill. Ball-bearing for conveyer-rollers. No. 960,009; May 31; Sp. p. 7780; Gaz. vol. 154; p. 1309.
Goldman, Sigmund L., Chicago, Ill. Conveyer-roller. No. 960,010; May 31; Sp. p. 7781; Gaz. vol. 154; p. 1309.
Goldman, Sigmund L., Chicago, Ill. Bottle-rack. No. 966,008; Aug. 2; Sp. p. 347; Gaz. vol. 157; p. 56.
Goldman, Sigmund L., Chicago, Ill. Discharge-conveyer. No. 967,758; Aug. 16; Sp. p. 4080; Gaz. vol. 157; p. 699.
Goldner, Simon. (See Collé and Goldner.)
Goldsborough, John B., Croton, assignor to The Underpinning Company, New York, N. Y. Method and apparatus for construction of supports of buildings and other structures. No. 961,438; June 14; Sp. p. 2459; Gaz. vol. 155; p. 433.
Goldsborough, John B., Croton, assignor to The Underpinning Company, New York, N. Y. Constructing piles. No. 961,492; June 14; Sp. p. 2590; Gaz. vol. 155; p. 451.
Goldsborough, John B., Croton, assignor to The Underpinning Company, New York, N. Y. Apparatus for the construction of supports for building and other structures. No. 979,474; Dec. 27; Sp. p. 4436; Gaz. vol. 161; p. 784.
Goldsborough, Richard H., Washington, D. C. Turbine. No. 953,013; Mar. 22; Sp. p. 5215; Gaz. vol. 152; p. 935.
Goldsborough, Winder E., La Fayette, Ind. Inductance-neutralizing coil-wound core and commutating impedance-coil for electric machines. No. 952,899; Mar. 22; Sp. p. 4986; Gaz. vol. 152; p. 897.
Goldschlag, Oscar, *et al.* (See Ellendman, Jacob E., assignor.)
Goldschmidt Detinning Company. (See Goldschmidt and Weber, assignors.) (Reissue.)
Goldschmidt Detinning Company. (See Sperry, Elmer A., assignor.)
Goldschmidt, Hans, and F. Lange, Essen-on-the-Ruhr, Germany, assignors to Goldschmidt Thermit Company of New York. Transportable clamping apparatus for welding purposes. No. 964,640; July 19; Sp. p. 3514; Gaz. vol. 156; p. 601.
Goldschmidt, Karl, and J. Weber, Essen-on-the-Ruhr, Germany, assignors, by mesne assignments, to Goldschmidt Detinning Company, Jersey City, N. J. Cleaning old tinned sheet-iron boxes and other tinned articles to render the same suitable for being detinned. (Reissue.) No. 13,123; June 28; Sp. p. 5833; Gaz. vol. 155; p. 1021.
Goldschmidt, Karl, and J. Weber, Essen-on-the-Ruhr, Germany, assignors to Goldschmidt Detinning Company, Jersey City, N. J. Furnace for heating old tinned sheet-iron boxes and the like to render them suitable to be detinned. No. 978,018; Dec. 6; Sp. p. 1287; Gaz. vol. 161; p. 206.
Goldschmidt Thermit Company. (See Pellissier, George E, assignor.)
Goldschmidt Thermit Company of New York. (See Goldschmidt and Lange, assignors.)
Goldsmith, Byron B., New York, N. Y. Indurated casein compound. No. 964,964; July 19; Sp. p. 4272; Gaz. vol. 156; p. 713.
Goldsmith, Byron B., New York, N. Y. Indurated albuminoid compound. No. 965,137; July 19; Sp. p. 4614; Gaz. vol. 156; p. 769.
Goldsmith, Frederick E., Middletown, assignor to The Ceramic Machinery Company, Hamilton, Ohio. Tile-coating machine. No. 948,011; Feb. 1; Sp. p. 478; Gaz. vol. 151; p. 77.
Goldsmith, Frederick E., Middletown, assignor to The Ceramic Machinery Company, Hamilton, Ohio. Tile-coating machine. No. 948,012; Feb. 1; Sp. p. 481; Gaz. vol. 151; p. 78.
Goldsmith, Frederick E., Middletown, assignor to The Ceramic Machinery Company, Hamilton, Ohio. Apparatus for coating. No. 973,649; Oct. 25; Sp. p. 4702; Gaz. vol. 159; p. 817.
Goldsmith, Herbert F., London, England. Piano-playing mechanism. No. 967,148; Aug. 9; Sp. p. 2838; Gaz. vol. 157; p. 465.
Goldsmith, Hugo. (See Yeager and Goldsmith.)
Goldsmith, Joel L., Chicago, Ill. Fountain-pen. No. 979,757; Dec. 27; Sp. p. 5064; Gaz. vol. 161; p. 882.
Goldsmith, Karl M., *et al.* (See Harris, Nathan, assignor.)
Goldsmith's Sons, P. (See Yeager and Goldsmith, assignors.)
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical signaling system. No. 966,823; Aug. 9; Sp. p. 2156; Gaz. vol. 157; p. 355.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical signaling system. No. 966,824; Aug. 9; Sp. p. 2159; Gaz. vol. 157; p. 355.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical signaling system. No. 966,825; Aug. 9; Sp. p. 2161; Gaz. vol. 157; p. 356.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical signaling system. No. 966,902; Aug. 9; Sp. p. 2319; Gaz. vol. 157; p. 380.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical alarm system. No. 966,903; Aug. 9; Sp. p. 2321; Gaz. vol. 157; p. 381.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Temperature alarm device. No. 966,904; Aug. 9; Sp. p. 2323; Gaz. vol. 157; p. 381.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical thermostatic alarm system. No. 977,295; Nov. 29; Sp. p. 7083; Gaz. vol. 160; p. 1205.
Goldstein, Albert, New York, N. Y., assignor to Electric Protection Company of New York. Alarm system. No. 966,901; Aug. 9; Sp. p. 2318; Gaz. vol. 157; p. 380.
Goldstein, Albert, New York, N. Y., assignor to Automatic Fire Protection Company. Circuit-maintenance system. No. 967,633; Aug. 16; Sp. p. 3825; Gaz. vol. 157; p. 657.
Goldstein, Albert, New York, N. Y., and H. E. Rice, Philadelphia, Pa., assignors, by mesne assignments, to Automatic Fire Protection Company. Automatic fire-alarm system. No. 963,432; July 5; Sp. p. 941; Gaz. vol. 156; p. 140.
Goldstein, Albert, and C. H. Pool, New York, N. Y., assignors to International Electric Protection Company. Electrical signaling system. No. 966,822; Aug. 9; Sp. p. 2154; Gaz. vol. 157; p. 355.
Goldstein, Albert, and C. H. Pool, assignors to International Electric Protection Company, New York, N. Y. Central-energy electrical temperature-alarm system. No. 977,296; Nov. 29; Sp. p. 7085; Gaz. vol. 160; p. 1205.
Goldstein, Isidore, Chicago, Ill. Armor for pneumatic tires. No. 960,308; June 7; Sp. p. 133; Gaz. vol. 155; p. 26.
Goldstein, John L., Philadelphia, Pa. Child's carriage. No. 968,763; Aug. 30; Sp. p. 6259; Gaz. vol. 157; p. 1093.
Goldstein, Meyer, Richmond, Va. Combined interlining and bust-form. No. 963,367; July 5; Sp. p. 807; Gaz. vol. 156; p. 119.
Goldstein, Morris, Brooklyn, assignor to C. De Lukacsevics, New York, N. Y. Blue-printing machinery. No. 976,164; Nov. 22; Sp. p. 4563; Gaz. vol. 160; p. 789.
Goldstein, Robert, New York, N. Y. Photographic camera. No. 973,272; Oct. 18; Sp. p. 3888; Gaz. vol. 159; p. 665.
Goldsword, James, administrator. (See Rogers, John.)
Goldsworthy, Ernest J. (See Taliaferro and Goldsworthy.)
Goldthorp, Robert R., Hartford, Conn. Receiving apparatus for wireless telegraphy. No. 959,510; May 31; Sp. p. 6692; Gaz. vol. 154; p. 1138.
Golgert, William J., Juniata, Nebr. Mail-box. No. 959,511; May 31; Sp. p. 6693; Gaz. vol. 154; p. 1139.
Goliasch, Karl, Berlin, Germany. Accordion. No. 961,120; June 14; Sp. p. 1782; Gaz. vol. 155; p. 323.
Golightly, William J., *et al.* (See Sidney, William E., assignor.)
Golland, Henry S., Manchester, England. Yarn-winding machine. No. 948,320; Feb. 8; Sp. p. 1125; Gaz. vol. 151; p. 207.

Alphabetical list of patentees—Continued.

Gollmar, George J., Baraboo, Wis. Mechanical bell-ringer. No. 970,703; Sept. 20; Sp. p. 3351; Gaz. vol. 158; p. 575.

Golter, John R., Greensboro, N. C. Washing-machine cylinder. No. 946,348; Jan. 11; Sp. p. 2938; Gaz. vol. 150; p. 487.

Golter, John R., assignor of one-half to J. M. Dick, Greensboro, N. C. Reversing mechanism. No. 947,661; Jan. 25; Sp. p. 5919; Gaz. vol. 150; p. 983.

Goltra, Edward F., St. Louis, Mo. Cleaning iron ores. No. 957,157; May 3; Sp. p. 1394; Gaz. vol. 154; p. 224.

Goltra, Edward F., St. Louis, Mo. Cleaning iron ores. No. 961,121; June 14; Sp. p. 1783; Gaz. vol. 155; p. 323.

Goltstein, Ewald, Cologne, Germany. Apparatus for sealing receptacles. No. 945,516; Jan. 4; Sp. p. 1102; Gaz. vol. 150; p. 170.

Gominsky, John. (See Burger and Gominsky.)

Gommel, Paul, Chicago, Ill. Lathe-center grinder. No. 966,826; Aug. 9; Sp. p. 2165; Gaz. vol. 157; p. 356.

Gonard, Jean L., Coytesville, N. J. Cut diamond. No. 946,939; Jan. 18; Sp. p. 4336; Gaz. vol. 150; p. 713.

Gonce, John W., Chattanooga, Tenn. Comb. No. 952,732; Mar. 22; Sp. p. 4634; Gaz. vol. 152; p. 840.

Gonce, John W., Chattanooga, Tenn. Hames-fastening device. No. 955,152; Apr. 19; Sp. p. 3141; Caz. vol. 153; p. 564.

Gones, Alfred G., Hannibal, Mo. Railway-switch. No. 953,605; Mar. 29; Sp. p. 6511; Gaz. vol. 152; p. 1163.

Gonin, Paul. (See Marseille and Gonin.)

Gooch, Alphonso S., Little Rock, Ark. Elevator. No. 945,034; Jan. 4; Sp. p. 54; Gaz. vol. 150; p. 10.

Good, Edgar, assignor to The United States Malleable Iron Company, Toledo, Ohio. Rail-clamp. No. 949,321; Feb. 15; Sp. p. 3223; Gaz. vol. 151; p. 568.

Good, Ezra E., Waterloo, Iowa. Pulsating device for milking apparatus. No. 960,636; June 7; Sp. p. 815; Gaz. vol. 155; p. 134.

Good Manufacturing Company. (See Biedenmeister, Frederick, assignor.)

Good, Thomas L., assignor of one-fourth to T. A. Desmond, one-fourth to H. Baird, and one-fourth to R. J. Baird, Edwardsville, Ill. Potato-planter. No. 955,395; Apr. 19; Sp. p. 3683; Gaz. vol. 153; p. 647.

Goodair, Thomas, Winnipeg, Manitoba, Canada. Combination pencil protector and sharpener. No. 947,812; Feb. 1; Sp. p. 60; Gaz. vol. 151; p. 13.

Goodale, Otto W., Norton, Kans. Riding-harrow. No. 946,031; Jan. 11; Sp. p. 2265; Gaz. vol. 150; p. 377.

Goodall, Jeremiah M. (See Tate and Goodall.)

Goodall, John N., Portsmouth, N. H., assignor, by mesne assignments, to Goodall Manufacturing Company. Pipe-coupling. No. 969,358; Sept. 6; Sp. p. 438; Gaz. vol. 158; p. 71.

Goodall, John N., Portsmouth, N. H., and F. S. Head, Stoneham, Mass. Combined pipe-coupling and valve. No. 960,309; June 7; Sp. p. 135; Gaz. vol. 155; p. 26.

Goodall Manufacturing Company. (See Goodall, John N., assignor.)

Goodall, Samuel H. (See Smith, Newton A., assignor.)

Goodchild, Joshua, assignor of one-half to F. X. Mathis, Jr., Philadelphia, Pa. Refrigerator. No. 945,778; Jan. 11; Sp. p. 1713; Gaz. vol. 150; p. 287.

Goode, John B., Spring Hope, N. C. Trip-hook for log-carriers. No. 966,905; Aug. 9; Sp. p. 2324; Gaz. vol. 157; p. 381.

Goode, William B., Philadelphia, Pa. Pencil-clip. No. 971,190; Sept. 27; Sp. p. 4373; Gaz. vol. 158; p. 767.

Goodell, Albert D., assignor to Goodell Tool Company, Shelburne Falls, Mass. Bench-stop. No. 974,482; Nov. 1; Sp. p. 942; Gaz. vol. 160; p. 139.

Goodell Company. (See Hinchliffe, George H., assignor.)

Goodell, Henry E., Greenfield, Mass. Miter-box. No. 978,576; Dec. 13; Sp. p. 2524; Gaz. vol. 161; p. 431.

Goodell-Pratt Company. (See Farley, Fred E., assignor.)

Goodell Tool Company. (See Goodell, Albert D., assignor.)

Goodenow, Albert L., Utica, N. Y. Furnace-regulator. No. 961,226; June 14; Sp. p. 2000; Gaz. vol. 155; p. 361.

Gooderham, Edward G. (See May, Thomas L., assignor.)

Goodfellow, Moore, deceased, Columbus, Ohio, assignor of one-half to J. O. Dye, administrator. Beet-topper. No. 950,909; Mar. 1; Sp. p. 938; Gaz. vol. 152; p. 150.

Goodhue, Edward A., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 945,035; Jan. 4; Sp. p. 56; Gaz. vol. 150; p. 11.

Goodhue, Homer, Chicago, Ill. Can-washing machine. No. 963,219; July 5; Sp. p. 494; Gaz. vol. 156; p. 68.

Gooding, Charles F., Oronogo, Mo. Bed-clamp. No. 958,246; May 17; Sp. p. 3909; Gaz. vol. 154; p. 658.

Gooding, Edward F. (See Goodrow and Gooding.)

Gooding, Stephen W., Los Angeles, Cal. Attachment for lawn-mowers. No. 955,261; Apr. 19; Sp. p. 3382; Gaz. vol. 153; p. 602.

Goodison, John, Sarnia, Ontario, Canada, assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 974,483; Nov. 1; Sp. p. 943; Gaz. vol. 160; p. 139.

Goodknight, John M., Kansas City, Kans. Elevator. No. 979,001; Dec. 20; Sp. p. 3415; Gaz. vol. 161; p. 600.

Goodloe, Peyton V. (See Melville, John, assignor.)

Goodman, Benedict, Wallace, Kans. Wrench. No. 963,287; July 5; Sp. p. 658; Gaz. vol. 156; p. 92.

Goodman, David T. (See Ulsh and Goodman.)

Goodman, David T., Altoona, Pa. Auxiliary coupling-hook. No. 962,634; June 28; Sp. p. 5069; Gaz. vol. 155; p. 886.

Goodman, Henry M., Louisville, Ky. Centrifugal separating-machine. No. 949,226; Feb. 15; Sp. p. 3017; Gaz. vol. 151; p. 536.

Goodman, Henry M., Louisville, Ky. Centrifugal separator. No. 949,227; Feb. 15; Sp. p. 3021; Gaz. vol. 151; p. 536.

Goodman, Henry M., Louisville, Ky. Separating organic materials from aqueous liquids. No. 966,196; Aug. 2; Sp. p. 760; Gaz. vol. 157; p. 120.

Goodman Manufacturing Company. (See Davis, Charles E., assignor. (Reissue.)

Goodman Manufacturing Company. (See Levin, Nils D., assignor.)

Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)

Goodman, Max, New York, N. Y. Safety device for preventing runaway accidents on bridges. No. 963,433; July 5; Sp. p. 949; Gaz. vol. 156; p. 141.

Goodman, Nathan J., assignor of one-fifth to D. C. Smith and one-fifth to R. Hirsch, St. Louis, Mo. Combined packing-box and wrapper. No. 953,135; Mar. 29; Sp. p. 5506; Gaz. vol. 152; p. 1004.

Goodman, Patrick, New York, N. Y. Gas-main stopper. No. 960.086; May 31; Sp. p. 7949; Gaz. vol. 154; p. 1335.

Goodman, Walter. (See Hempen, John H., assignor.)

Goodman, Walter. (See Rodgers, Thomas E., assignor.)

Goodmundson, Alvin K., and R. F. Smith, Oakland, Cal. Machine for mixing concrete. No. 959,512; May 31; Sp. p. 6694; Gaz. vol. 154; p. 1139.

Goodnow, Russell J. (See Symonds and Goodnow.)

Goodnow, William T. (See Loetzer and Goodnow.)

Goodnow, William V., Atlanta, Ga. Car-seal. No. 946,997; Jan. 18; Sp. p. 4446; Gaz. vol. 150; p. 732.

Goodrich, Clarence L., assignor to Pratt & Whitney Company, Hartford, Conn. Tool-supporting attachment for turret-lathes. No. 968,045; Aug. 23; Sp. p. 4684; Gaz. vol. 157; p. 819.

Goodrich, Luman L., Jr., San Antonio, Tex. Spark-arrester. No. 973,775; Oct. 25; Sp. p. 4953; Gaz. vol. 159; p. 862.

Goodrich, Ralph B., Cincinnati, Ohio. Washing-machine dolly. No. 969,359; Sept. 6; Sp. p. 441; Gaz. vol. 158; p. 71.

Goodrick, Edward W., Appleton, Wis., assignor to American Grass Twine Company, St. Paul, Minn. Machine for making grass twine. No. 951,390; Mar. 8; Sp. p. 1889; Gaz. vol. 152; p. 330.

Goodrick, Edward W., assignor to American Grass Twine Company, St. Paul, Minn. Machine for making grass twine. No. 951,391; Mar. 8; Sp. p. 1892; Gaz. vol. 152; p. 330.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Fusible switch. No. 947,677; Jan. 25; Sp. p. 5941; Gaz. vol. 150; p. 988.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Pull-socket. No. 957,768; May 10; Sp. p. 2688; Gaz. vol. 154; p. 462.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp-socket cap. No. 958,625; May 17; Sp. p. 4800; Gaz. vol. 154; p. 789.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp-socket cap. No. 958,626; May 17; Sp. p. 4801; Gaz. vol. 154; p. 789.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket. No. 961,605; June 14; Sp. p. 2824; Gaz. vol. 155; p. 489.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electrical contact. No. 965,103; July 19; Sp. p. 4551; Gaz. vol. 156; p. 759.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Key-socket for electric incandescent lamps. No. 969,617; Sept. 6; Sp. p. 998; Gaz. vol. 158; p. 159.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Wall-socket. No. 977,297; Nov. 29; Sp. p. 7087; Gaz. vol. 160; p. 1206.

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Pull-socket for electric lamps. No. 979,475; Dec. 27; Sp. p. 4440; Gaz. vol. 161; p. 784.

Goodridge, Gilbert W., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Binding-post. No. 960,087; May 31; Sp. p. 7950; Gaz. vol. 154; p. 1335.

Goodrow, Frank A., and E. F. Gooding, Elgin, Ill. Blasting-plug. No. 971,264; Sept. 27; Sp. p. 4525; Gaz. vol. 158; p. 791.

Goodrow, William. (See Kaufman, Frank, assignor.)

Goodrum, Charles L., Atlantic City, N. J., assignor, by mesne assignments, to C. P. Burns, Chicago, Ill. Telephone system. No. 958,627; May 17; Sp. p. 4802; Gaz. vol. 154; p. 789.

Goodsir, George E., Jersey City, N. J. Propeller. No. 964,155; July 12; Sp. p. 2476; Gaz. vol. 156; p. 406.

Alphabetical list of patentees—Continued.

Goodson, George A., Minneapolis, Minn. Apparatus for treating metals. No. 978,448; Dec. 13; Sp. p. 2221; Gaz. vol. 161; p. 385.
Goodson, Milton A., Childress, Tex. Brace. No. 976,564; Nov. 22; Sp. p. 5492; Gaz. vol. 160; p. 928.
Goodspeed, Mathew A., Fremont, Nebr. Slide-carrier for stereopticons. No. 967,511; Aug. 16; Sp. p. 3589; Gaz. vol. 157; p. 616.
Goodwin, Edwin B., Ward, Colo. Treating ores. No. 970,325; Sept. 13; Sp. p. 2523; Gaz. vol. 158; p. 426.
Goodwin, George. (See Reid, James H., assignor.)
Goodwin, George H., Los Angeles, Cal. Water-gage. No. 967,634; Aug. 16; Sp. p. 3828; Gaz. vol. 157; p. 657.
Goodwin, James E., Cumberland Gap, Tenn., assignor to Crompton & Knowles Loom Works. Loom. No. 949,629; Feb. 15; Sp. p. 3855; Gaz. vol. 151; p. 672.
Goodwin, John, New York, N. Y. Race-game apparatus. No. 974,376; Nov. 1; Sp. p. 675; Gaz. vol. 160; p. 102.
Goodwin, John B., Ambridge, Pa. Sheet-metal building construction. No. 963,889; July 12; Sp. p. 1931; Gaz. vol. 156; p. 317.
Goodwin, John M., Mount Vernon, N. Y. Dumping-car. No. 971,603; Oct. 4; Sp. p. 203; Gaz. vol. 159; p. 36.
Goodwin, Ransom, West Union, Ill. Grain-door. No. 976,357; Nov. 22; Sp. p. 5046; Gaz. vol. 160; p. 856.
Goodwin, William, South Hayling, England. Tap. No. 945,517; Jan. 4; Sp. p. 1103; Gaz. vol. 150; p. 170.
Goodwin, William F., and J. C. Low, San Francisco, Cal. Liquid-fuel burner. No. 953,136; Mar. 29; Sp. p. 5507; Gaz. vol. 152; p. 1004.
Goodwyne, Charles O., Jr. (See Wolcott and Goodwyne.)
Goodwyne, Early N. (See Wolcott and Goodwyne.)
Goodyear, Nelson, assignor to J. B. Colt Company, New York, N. Y. Gas-generator. No. 967,183; Aug. 16; Sp. p. 2910; Gaz. vol. 157; p. 504.
Goodyear, Nelson, assignor to J. B. Colt Company, New York, N. Y. Feeding apparatus for acetylene-generators. No. 967,184; Aug. 16; Sp. p. 2914; Gaz. vol. 157; p. 504.
Gooley, Louis N., Haverhill, Mass. Vibration-reducer for shaft-bearings. No. 954,859; Apr. 12; Sp. p. 2552; Gaz. vol. 153; p. 435.
Goolsby, Hannah, Wauchula, Fla. Undergarment. No. 974,787; Nov. 8; Sp. p. 1608; Gaz. vol. 160; p. 270.
Goosmann, Justus C., Chicago, Ill. Surgical instrument. No. 947,382; Jan. 25; Sp. p. 5293; Gaz. vol. 150; p. 889.
Goppelt, Frederick A., Jr., Waterbury, Conn. Window-shade bracket. No. 971,988; Oct. 4; Sp. p. 1063; Gaz. vol. 159; p. 178.
Gorden, James R., Portland, Oreg. Device for roding off cement and concrete surfaces. No. 947,469; Jan. 25; Sp. p. 5487; Gaz. vol. 150; p. 917.
Gordon, Albert A., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-binder for looms. No. 958,487; May 17; Sp. p. 4539; Gaz. vol. 154; p. 744.
Gordon, Albert A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-box motion for looms. No. 949,355; Feb. 15; Sp. p. 3313; Gaz. vol. 151; p. 580.
Gordon, Albert A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Stop-motion for looms. No. 950,910; Mar. 1; Sp. p. 942; Gaz. vol. 152; p. 150.
Gordon, Albert A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shedding mechanism for looms. No. 954,181; Apr. 5; Sp. p. 1027; Gaz. vol. 153; p. 174.
Gordon, Albert A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 959,132; May 24; Sp. p. 5893; Gaz. vol. 154; p. 987.
Gordon, Albert A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Thread-cutting temple for weft-replenishing looms. No. 961,439; June 14; Sp. p. 2465; Gaz. vol. 155; p. 434.
Gordon, Albert A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shedding mechanism for looms. No. 966,439; Aug. 9; Sp. p. 1243; Gaz. vol. 157; p. 225.
Gordon, Albert E., Trenton, N. J., assignor to Ajax-Grieb Rubber Company, New York, N. Y. Stopper-retainer. No. 950,387; Feb. 22; Sp. p. 5505; Gaz. vol. 151; p. 964.
Gordon, Charles. (See Hyde and Gordon.)
Gordon, Charles. (See Matchette, Gordon, and Moukos.)
Gordon, Edward B., Jr., assignor to B. E. Van Auken, Chicago, Ill. Mechanism for discharging water of condensation from steam-heating systems. No. 953,330; Mar. 29; Sp. p. 5912; Gaz. vol. 152; p. 1068.
Gordon, Elmer P., Denver, Colo. Centrifugal pulverizer. No. 964,102; July 12; Sp. p. 2372; Gaz. vol. 156; p. 389.
Gordon, Frederick M., Cave Springs, Ga. Planter. No. 959,852; May 31; Sp. p. 7400; Gaz. vol. 154; p. 1254.
Gordon, Frederick W., Philadelphia, Pa. Metal-reducing process. No. 974,257; Nov. 1; Sp. p. 389; Gaz. vol. 160; p. 57.
Gordon, Fynis C., assignor to Gordon Propeller Company, Cleveland, Ohio. Propeller. No. 945,123; Jan. 4; Sp. p. 236; Gaz. vol. 150; p. 41.
Gordon, George E., Philadelphia, Pa. Apparatus for cleansing bottles and jars. No. 979,842; Dec. 27; Sp. p. 5261; Gaz. vol. 161; p. 911.
Gordon, Hamilton A., East Orange, N. J. Turnstile. No. 954,182; Apr. 5; Sp. p. 1030; Gaz. vol. 153; p. 175.
Gordon, Henry C. (See Evans and Gordon.)
Gordon, Henry D., Idlewild, N. Y. Fruit-conveyer. No. 967,365; Aug. 16; Sp. p. 3275; Gaz. vol. 157; p. 567.
Gordon, Horace S., Dayton, Ohio. Food-guard. No. 967,366; Aug. 16; Sp. p. 3279; Gaz. vol. 157; p. 567.
Gordon, John L., *et al.* (See MacDuffee, Chester E., assignor.)
Gordon, John P., Columbus, Ohio. Automobile-hood. No. 975,128; Nov. 8; Sp. p. 2387; Gaz. vol. 160; p. 387.
Gordon, John P., Columbus, Ohio. Automobile-robe. No. 976,866; Nov. 29; Sp. p. 6130; Gaz. vol. 160; p. 1056.
Gordon, John R. (See Hayden and Gordon.)
Gordon, John S. P., *et al.* (See Lawrence, Harry O., assignor.)
Gordon, John W. (See Vandegrift and Gordon.)
Gordon, Martin A., Indianapolis, Ind. Machine for drying cloth. No. 947,696; Jan. 25; Sp. p. 5972; Gaz. vol. 150; p. 994.
Gordon Propeller Company. (See Gordon, Fynis C., assignor.)
Gordon, Raymond D., Dewey, Okla. Hitching device. No. 948,626; Feb. 8; Sp. p. 1799; Gaz. vol. 151; p. 309.
Gordon, Robert W., assignor to The Stearns-Roger Manufacturing Co., Denver, Colo. Pulp-agitator. No. 954,511; Apr. 12; Sp. p. 1744; Gaz. vol. 153; p. 313.
Gordon, Seth, Chazy, N. Y. Lantern-hook. No. 978,734; Dec. 13; Sp. p. 2859; Gaz. vol. 161; p. 484.
Gordon, William L., Deal, N. J. Fastening for heel-cushions. No. 959,513; May 31; Sp. p. 6695; Gaz. vol. 154; p. 1139.
Gordon, William R., Philadelphia, Pa. Chair. No. 957,552; May 10; Sp. p. 2251; Gaz. vol. 154; p. 389.
Gore, Arvin J., Denver, Colo. Pulverizing-mill. No. 960,893; June 7; Sp. p. 1315; Gaz. vol. 155; p. 220.
Gore, Roscoe C., Tecumseh, Nebr. Flying-machine. No. 975,229; Nov. 8; Sp. p. 2608; Gaz. vol. 160; p. 421.
Gore, Roscoe C., Tecumseh, Nebr. Aerial navigator. No. 979,286; Dec. 20; Sp. p. 4068; Gaz. vol. 161; p. 700.
Gorham, Frank C., Chicago, Ill. Razor-blade holder. No. 975,762; Nov. 15; Sp. p. 3736; Gaz. vol. 160; p. 629.
Gorham Manufacturing Company. (See MacBeth, Alexander, assignor.)
Gorham Manufacturing Company. (See Pender, James E. P., assignor.)
Gorman, Edward F. (See Gernet, Harry J., assignor.)
Gorman, Frederick, Okemah, Okla. Tile-mold. No. 958,628; May 17; Sp. p. 4810; Gaz. vol. 154; p. 790.
Gorman, Horace P., Hazleton, Pa. Liquid-dispensing apparatus. No. 977,298; Nov. 29; Sp. p. 7088; Gaz. vol. 160; p. 1206.
Gorman, James P., Chicago, Ill. Rail-cleaner. No. 954,278; Apr. 5; Sp. p. 1233; Gaz. vol. 153; p. 206.
Gorman, John T. (See McMurray, John H., assignor.)
Gorman, Katherine, Los Angeles, Cal. Buttonhole device. No. 951,561; Mar. 8; Sp. p. 2235; Gaz. vol. 152; p. 388.
Gormly, Robert W., Troy, N. Y. Casting-off bur for circular-knitting machines. No. 976,867; Nov. 29; Sp. p. 6130; Gaz. vol. 160; p. 1056.
Görner, Johannes, Eschersheim, near Frankfort-on-the-Main, Germany, assignor to Hartmann & Braun Aktiengesellschaft, Bockenheim, Frankfort-on-the-Main, Germany. Electricity-measuring instrument. No. 964,015; July 12; Sp. p. 2187; Gaz. vol. 156; p. 359.
Gorrell, Benjamin W. D. (See Gorrell, Joseph K. and B. W. D.)
Gorrell, Joseph K. and B. W. D., Newport, Tenn. Rail-joint. No. 948,069; Feb. 1; Sp. p. 609; Gaz. vol. 151; p. 98.
Gorrell, William R., assignor of one-third to H. G. Reynolds and one-third to A. F. Brown, Jr., Havre de Grace, Md. Railway-tie and rail-fastening. No. 948,877; Feb. 8; Sp. p. 2311; Gaz. vol. 151; p. 393.
Gorsline, Leon D., assignor to Case Brothers Cutlery Company, Little Valley, N. Y. Knife. No. 968,463; Aug. 23; Sp. p. 5577; Gaz. vol. 157; p. 962.
Gorton, Mark. (See Affelder and Gorton.)
Gose, Robert G., Upton, Wyo. Sage-brush cutter. No. 969,469; Sept. 6; Sp. p. 659; Gaz. vol. 158; p. 106.
Goshorn, Leonard, Waco, Tex. Extension obstetrical instrument. No. 962,952; June 28; Sp. p. 5685; Gaz. vol. 155; p. 996.
Goslee, George S., Waukegan, Ill. Fluid-pressure-regulating device. No. 949,180; Feb. 15; Sp. p. 2941; Gaz. vol. 151; p. 521.
Goss, George A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Rivet. No. 968,551; Aug. 30; Sp. p. 5784; Gaz. vol. 157; p. 1019.
Goss, George F., Wallaceton, Pa. Pool-ball rack. No. 971,128; Sept. 27; Sp. p. 4222; Gaz. vol. 158; p. 746.
Goss, George W., Orlo, Tex., assignor of one-half to C. M. Acrey, Carlsbad, N. Mex. Calculator. No. 970,038; Sept. 13; Sp. p. 1939; Gaz. vol. 158; p. 329.
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Staple for attaching barbuttons. No. 977,615; Dec. 6; Sp. p. 451; Gaz. vol. 161; p. 67.

Alphabetical list of patentees—Continued.

Goss, John H., and G. R. Leggett, assignors to Scovill Manufacturing Company, Waterbury, Conn. Machine for attaching glove-fasteners. No. 956,847; May 3; Sp. p. 756; Gaz. vol. 154; p. 119.

Goss, John H., and G. R. Legett, assignors to Scovill Manufacturing Company, Waterbury, Conn. Machine for attaching glove-fasteners. No. 956,848; May 3; Sp. p. 759; Gaz. vol. 154; p. 120.

Goss Printing Press Co. (See Pickering, Edward, assignor.)

Goss Printing Press Company. (See Evensen, William, assignor.)

Goss Printing Press Company, The. (See Firm, Joseph L., assignor.)

Goss Printing Press Company, The. (See Goss, Samuel G., assignor.)

Goss Printing Press Company, The. (See Lang, Hubert, assignor.)

Goss Printing Press Company, The. (See Schroeder, Hans C., assignor.)

Goss Printing Press Company, The. (See Walser, Joseph J., assignor.)

Goss, Samuel G., assignor to The Goss Printing Press Company, Chicago, Ill. Folding-machine. No. 954,086; Apr. 5; Sp. p. 810; Gaz. vol. 153; p. 141.

Goss, Samuel G., assignor to The Goss Printing Press Company, Chicago, Ill. Folding-machine. No. 954,087; Apr. 5; Sp. p. 815; Gaz. vol. 153; p. 141.

Goss, Samuel G., assignor to The Goss Printing Press Company, Chicago, Ill. Inking mechanism for printing-presses. No. 954,088; Apr. 5; Sp. p. 819; Gaz. vol. 153; p. 142.

Goss, Samuel G., assignor to The Goss Printing Press Company, Chicago, Ill. Paper-roll-braking mechanism for printing-presses. No. 954,089; Apr. 5; Sp. p. 823; Gaz. vol. 153; p. 143.

Goss, Samuel G., assignor to The Goss Printing Press Company, Chicago, Ill. Plate-clamping mechanism for printing-presses. No. 954,090; Apr. 5; Sp. p. 829; Gaz. vol. 153; p. 143.

Goss, Samuel G., assignor to The Goss Printing Press Company, Chicago, Ill. Plate-clamping mechanism for printing-presses. No. 954,091; Apr. 5; Sp. p. 833; Gaz. vol. 153; p. 143.

Goss, Samuel G., assignor to The Goss Printing Press Company, Chicago, Ill. Combined plate shaving, trimming, and tail-cutting machine. No. 975,521; Nov. 15; Sp. p. 3219; Gaz. vol. 160; p. 548.

Goss, William. (See McIntire, Harvey W., assignor.)

Goss, William, Newark, N. J. Smoker's outfit. No. 956,701; May 3; Sp. p. 440; Gaz. vol. 154; p. 70.

Goss, William H., Stonington, Me. Pipe-coupling. No. 964,238; July 12; Sp. p. 2636; Gaz. vol. 156; p. 434.

Gosse, Henry J., and W. Wagner, Reno, Nev. Flushing apparatus. No. 963,707; July 5; Sp. p. 1491; Gaz. vol. 156; p. 232.

Gosser, George W., Allentown, Pa. Head-rest for barbers' chairs. No. 945,518; Jan. 4; Sp. p. 1106; Gaz. vol. 150; p. 171.

Gossett, Alfred N. (See Gossett, Elwood, assignor.)

Gossett, Charles T. (See Markwell, Andrew E., assignor.)

Gossett, Elwood, Kansas City, Kans., assignor of one-half to A. N. Gossett, Kansas City, Mo. Paint-oil. No. 979,662; Dec. 27; Sp. p. 4847; Gaz. vol. 161; p. 850.

Gossett, Oliver M., Seymour, Ind. Furnace-door-operating device. No. 947,903; Feb. 1; Sp. p. 265; Gaz. vol. 151; p. 44.

Gossett, William, assignor, by mesne assignments, of one-half to D. Scott, R. Bates, and T. Murphy, Falls City, Nebr. Sectional arch. No. 954,410; Apr. 5; Sp. p. 1512; Gaz. vol. 153; p. 251.

Gossom, Charles W. (See Schneider and Gossom.)

Goteborgs Nya Verkstadsaktiebolag. (See Lindahl, John T., assignor.)

Gothan, Hermann, Celle, Germany. Means for sheltering the landing-places of airships from the force of the wind. No. 966,395; Aug. 2; Sp. p. 1135; Gaz. vol. 157; p. 183.

Göthe, Emil A. O. (See Johansson and Göthe.)

Gothing, Charles A., Worcester, Mass. Shutter-worker. No. 970,039; Sept. 13; Sp. p. 1940; Gaz. vol. 158; p. 329.

Gotshall, Eddie H., Bloomingdale, Ohio. Wrench. No. 956,074; Apr. 26; Sp. p. 5172; Gaz. vol. 153; p. 911.

Götte, Georg, Cassel, Germany. Draft-excluder for doors. No. 974,959; Nov. 8; Sp. p. 2014; Gaz. vol. 160; p. 330.

Gottleib, Robert. (See Armstrong, Frank S., Jr., assignor.)

Gottlieb, Josef, *et al.* (See Müller, David, assignor.)

Gottschalk, Emil. (See Remané, Gottschalk, and Hurwitz.)

Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 950,229; Feb. 22; Sp. p. 5211; Gaz. vol. 151; p. 913.

Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 977,616; Dec. 6; Sp. p. 453; Gaz. vol. 161; p. 68.

Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 977,617; Dec. 6; Sp. p. 456; Gaz. vol. 161; p. 68.

Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 977,618; Dec. 6; Sp. p. 458; Gaz. vol. 161; p. 69.

Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 977,619; Dec. 6; Sp. p. 459; Gaz. vol. 161; p. 69.

Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 977,620; Dec. 6; Sp. p. 461; Gaz. vol. 161; p. 69.

Gottschalk, Felix, New York, N. Y. Sound-reproducing device. No. 977,621; Dec. 6; Sp. p. 463; Gaz. vol. 161; p. 70.

Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 977,622; Dec. 6; Sp. p. 466; Gaz. vol. 161; p. 70.

Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 977,623; Dec. 6; Sp. p. 468; Gaz. vol. 161; p. 70.

Gottschall, Mansford W., Frederick, Okla. Crude-oil burner. No. 953,380; Mar. 29; Sp. p. 6037; Gaz. vol. 152; p. 1085.

Gottschall, Paul, Leutzsch, near Leipzig, assignor of one-half to A. Wohlfarth, Leipzig-Connewitz, Germany. Door-hinge. No. 968,764; Aug. 30; Sp. p. 6260; Gaz. vol. 157; p. 1093.

Goubeaut, Albert, Melun, France. Turning door. No. 959,514; May 31; Sp. p. 6697; Gaz. vol. 154; p. 1140.

Gough, Edward C., Shullsburg, Wis. Exercising apparatus. No. 950,100; Feb. 22; Sp. p. 4932; Gaz. vol. 151; p. 868.

Gough, Jacob C., Cleveland, Ohio, assignor of one-half to M. D. Gough, Curwensville, Pa., and one-half to A. L. Lawrence, Cleveland, Ohio. Protective system and apparatus for safeguarding vaults, safes, and the like. No. 973,033; Oct. 18; Sp. p. 3369; Gaz. vol. 159; p. 583.

Gough, Margaret D., *et al.* (See Gough, Jacob C., assignor.)

Goughenour, Levi D., Scottdale, Pa. Combined folding music-rack and cane. No. 956,336; Apr. 26; Sp. p. 5749; Gaz. vol. 153; p. 1000.

Goughnour, Charles L., assignor, by mesne assignments, to The United Electric Company, Canton, Ohio. Cleaning-machine. No. 968,934; Aug. 30; Sp. p. 6603; Gaz. vol. 157; p. 1149.

Goughnour, Heenan S., Johnstown, Pa., assignor to The Lorain Steel Company. Pinless switch. No. 946,349; Jan. 11; Sp. p. 2939; Gaz. vol. 150; p. 488.

Gouin, Paul. (See Marseille and Gouin.)

Gould, Albert E., Grand Rapids, Mich. Metallic weather-strip. No. 956,702; May 3; Sp. p. 441; Gaz. vol. 154; p. 70.

Gould Coupler Company. (See Richards, Willard F., assignor.)

Gould Coupler Company. (See Turbayne, William A., assignor.)

Gould & Eberhardt. (See Eberhardt, Frederick L., assignor.)

Gould & Eberhardt. (See Zimmermann, William F., assignor.)

Gould, Edward, assignor of one-fourth to S. C. Pattridge, one-fourth to W. D. Ingalls, and one-fourth to F. Viall, Spring Valley, Minn. Cut-out telephone system. No. 977,447; Dec. 6; Sp. p. 41; Gaz. vol. 161; p. 9.

Gould, Frank I., Hallebury, Ontario, Canada. Bed-frame construction. No. 973,349; Oct. 18; Sp. p. 4048; Gaz. vol. 159; p. 693.

Gould, Fred L., assignor of one-fourth to J. H. Dodd and one-fourth to A. M. Smith, Reno, Nev. Flying-machine. No. 965,452; July 26; Sp. p. 5298; Gaz. vol. 156; p. 906.

Gould-Mersereau Company *et al.* (See McBride, Charles S., assignor.)

Gould Storage Battery Company. (See Chamberlain, Rufus N., assignor.)

Gould Storage Battery Company. (See Chamberlain and Shedd, assignors.)

Gould Storage Battery Company. (See Hubbard, Albert S., assignor.)

Gould Storage Battery Company. (See Sloan, James R., assignor.)

Gould Storage Battery Company. (See Turbayne, William A., assignor.)

Gould Storage Battery Company. (See Winship, Walter E., assignor.)

Gould, William F., Des Moines, Iowa. Railway-rail chair. No. 945,779; Jan. 11; Sp. p. 1714; Gaz. vol. 150; p. 288.

Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for breasting heels. No. 955,865; Apr. 26; Sp. p. 4712; Gaz. vol. 153; p. 837.

Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for breasting heels. No. 968,516; Aug. 23; Sp. p. 5695; Gaz. vol. 157; p. 981.

Goulding, Charles E., Tampa, Fla. Type-writer stand. No. 946,218; Jan. 11; Sp. p. 2650; Gaz. vol. 150; p. 441.

Gounevitch, Etienne de, Paris, and A. Couaillet, St. Nicolas d'Aliermont, France. Clockwork-globe. No. 970,040; Sept. 13; Sp. p. 1941; Gaz. vol. 158; p. 329.

Alphabetical list of patentees—Continued.

Gourdeau, John G., Lawrence, Mass. Spacing device for warps. No. 954,512; Apr. 12; Sp. p. 1746; Gaz. vol. 153; p. 313.
Gousseff, Simeon, St. Petersburg, Russia. Fireproofing compound. No. 955,262; Apr. 19; Sp. p. 3383; Gaz. vol. 153; p. 602.
Gouverneur, Minor F. H. (See Chase and Gouverneur.)
Gover, Bowen R., Newton, Ohio. Headlight for vehicles. No. 971,265; Sept. 27; Sp. p. 4527; Gaz. vol. 158; p. 792.
Gow, Alexander M. (See Westinghouse and Gow.)
Gow, Alexander M., Edgewood Park, Pa., assignor, by mesne assignments, to The Westinghouse Machine Company. Apparatus for the manufacture of gas. No. 945,715; Jan. 4; Sp. p. 1514; Gaz. vol. 150; p. 236.
Gow, Alexander M., Edgewood Park, Pa., assignor, by mesne assignments, to The Westinghouse Machine Company. Gas-scrubber apparatus. No. 945,936; Jan. 11; Sp. p. 2075; Gaz. vol. 150; p. 345.
Gow, John, Schenectady, assignor of one-half to A. M. Loudon, Elmira, N. Y. Apparatus for making cores. No. 976,648; Nov. 22; Sp. p. 5667; Gaz. vol. 160; p. 958.
Gowdy, George E., New York, N. Y. Machine for forming plastic material. No. 971,884; Oct. 4; Sp. p. 790; Gaz. vol. 159; p. 138.
Gowie, William, Carnegie, Pa. Faucet. No. 966,682; Aug. 9; Sp. p. 1802; Gaz. vol. 157; p. 308.
Gowing, Ernest T., assignor of one-half to A. T. Plunkett, Watertown, N. Y. Stop-collar for winding-shafts. No. 969,268; Sept. 6; Sp. p. 248; Gaz. vol. 158; p. 41.
Gowing, William N., San Augustine, Tex. Cushion-padded horseshoe. No. 958,629; May 17; Sp. p. 4812; Gaz. vol. 154; p. 790.
Goyette, Trephle B., Chicopee Falls, Mass. Action for firearms. No. 972,076; Oct. 4; Sp. p. 1224; Gaz. vol. 159; p. 207.
Goynon, James and L., Bay City, Mich. Hay-cocker. No. 966,009; Aug. 2; Sp. p. 349; Gaz. vol. 157; p. 56.
Goynon, Louis. (See Goynon, James and L.)
Grabe, William H., and J. Brant, Fort Gage, Ill. Corn-planter. No. 978,735; Dec. 13; Sp. p. 2860; Gaz. vol. 161; p. 484.
Graber Calculating Machine Company, The. (See Graber, Julius, assignor.)
Graber, Julius, assignor to The Graber Calculating Machine Company, New York, N. Y. Calculating-machine. No. 972,360; Oct. 11; Sp. p. 1833; Gaz. vol. 159; p. 322.
Grabler, Peter, assignor to The Cleveland Flushometer Company, Cleveland, Ohio. Flush-valve. No. 955,961; Apr. 26; Sp. p. 4922; Gaz. vol. 153; p. 870.
Grabs, Virgil T., King, N. C. Log-turning device. No. 973,423; Oct. 18; Sp. p. 4214; Gaz. vol. 159; p. 717.
Grace, James A., De Kalb, Miss. Cotton-chopper. No. 965,104; July 19; Sp. p. 4552; Gaz. vol. 156; p. 759.
Grace, John. (See Baucum, Samuel C., assignor.)
Grace, John W., Burlington, Vt. Combined punching and shearing machine. No. 947,212; Jan. 18; Sp. p. 4858; Gaz. vol. 150; p. 801.
Grace, Sergius P., Pittsburg, Pa., assignor to Western Electric Company, Chicago, Ill. Knob-insulator. No. 948,321; Feb. 8; Sp. p. 1126; Gaz. vol. 151; p. 207.
Grace, William E. (See Downs, George H., assignor.)
Gradolph Electric Company. (See Gradolph and Hahne, assignors.)
Gradolph, William F., St. Louis, Mo., and W. C. Hahne, Chicago, Ill., assignors to Gradolph Electric Company, St. Louis, Mo. Telephone system. No. 958,868; May 24; Sp. p. 5354; Gaz. vol. 154; p. 899.
Gradolph, William F., St. Louis, Mo., and W. C. Hahne, Chicago, Ill., assignors to Gradolph Electric Company, St. Louis, Mo. Transmission of electrical energy. No. 959,337; May 24; Sp. p. 6313; Gaz. vol. 154; p. 1056.
Gradolph, William F., St. Louis, Mo., and W. C. Hahne, Chicago, Ill., assignors to Gradolph Electric Company, St. Louis, Mo. Transmitting electrical energy. No. 959,428; May 24; Sp. p. 6472; Gaz. vol. 154; p. 1084.
Grady, Willie T., Orange, Va. Filing apparatus. No. 977,003; Nov. 29; Sp. p. 6478; Gaz. vol. 160; p. 1105.
Graef, Francis S., New York, N. Y. Form for concrete conduit construction. No. 963,544; July 5; Sp. p. 1166; Gaz. vol. 156; p. 178.
Graf, Alfred. (See Graf, Otto and A.)
Graf, Otto and A., Messkirch, Germany. Machine for stringing tobacco-leaves. No. 979,287; Dec. 20; Sp. p. 4071; Gaz. vol. 161; p. 700.
Graff, Oscar C., assignor to C. P. Kimball & Co., Chicago, Ill. Fender. No. 967,900; Aug. 23; Sp. p. 4362; Gaz. vol. 157; p. 769.
Graffort, Lory J., and P. L. Hoffman, New Carlisle, Ind. Fruit-jar wrench. No. 976,868; Nov. 29; Sp. p. 6133; Gaz. vol. 160; p. 1057.
Graft, John R., Cedar Rapids, Iowa. Fence attachment. No. 960,164; May 31; Sp. p. 8087; Gaz. vol. 154; p. 1360.
Grafton, Frank H. (See Foster and Grafton.)
Grafton, William S., *et al.* (See Foster and Grafton, assignors.)
Graham, Albert C., Oilfields, Cal. Tool-fishing apparatus. No. 967,759; Aug. 16; Sp. p. 4082; Gaz. vol. 157; p. 699.
Graham, Albert C., Oilfields, Cal. Shoe-guide for well-casings. No. 970,812; Sept. 20; Sp. p. 3608; Gaz. vol. 158; p. 615.

Graham, Albert C., Oilfields, Cal. Rope-knife. No. 978,577; Dec. 13; Sp. p. 2528; Gaz. vol. 161; p. 431.
Graham, Charles L., Ashley, N. D. Wire-fence stretcher. No. 973,034; Oct. 18; Sp. p. 3372; Gaz. vol. 159; p. 584.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Soldering can-seams. No. 949,763; Feb. 22; Sp. p. 4144; Gaz. vol. 151; p. 749.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Making can-seams. No. 953,381; Mar. 29; Sp. p. 6039; Gaz. vol. 152; p. 1085.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Feeding mechanism. No. 955,866; Apr. 26; Sp. p. 4717; Gaz. vol. 153; p. 837.
Graham, Charles W., assignor, by mesne assignments, to American Can Company, New York, N. Y. Can-forming apparatus. No. 958,741; May 24; Sp. p. 5048; Gaz. vol. 154; p. 853.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Soldering-machine. No. 960,310; June 7; Sp. p. 138; Gaz. vol. 155; p. 27.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Can-heading machine. No. 969,470; Sept. 6; Sp. p. 660; Gaz. vol. 158; p. 106.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Can-cleaning machine. No. 969,949; Sept. 13; Sp. p. 1736; Gaz. vol. 158; p. 298.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Body-forming machine. No. 970,620; Sept. 20; Sp. p. 3139; Gaz. vol. 158; p. 547.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Can-testing machine. No. 970,621; Sept. 20; Sp. p. 3168; Gaz. vol. 158; p. 547.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Making can-bodies. No. 970,622; Sept. 20; Sp. p. 3173; Gaz. vol. 158; p. 548.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Apparatus for use in can-making. No. 970,704; Sept. 20; Sp. p. 3354; Gaz. vol. 158; p. 576.
Graham, Charles W., assignor to Utica Industrial Company, Rome, N. Y. Machine for slitting or trimming blanks for can-bodies, &c. No. 954,622; Apr. 12; Sp. p. 1975; Gaz. vol. 153; p. 350.
Graham, F. M., *et al.* (See Mills, Edward N., assignor.)
Graham, George, St. Louis, Mo. Spring-holder for valve-gear. No. 962,953; June 28; Sp. p. 5687; Gaz. vol. 155; p. 996.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Reinforced concrete structure. No. 974,656; Nov. 1; Sp. p. 1316; Gaz. vol. 160; p. 204.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Reinforcing-frame for concrete structures. No. 974,657; Nov. 1; Sp. p. 1318; Gaz. vol. 160; p. 204.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Reinforced-concrete floor. No. 974,658; Nov. 1; Sp. p. 1319; Gaz. vol. 160; p. 204.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Reinforced concrete car structure. No. 974,659; Nov. 1; Sp. p. 1320; Gaz. vol. 160; p. 205.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Fitting for reinforcing-frames. No. 976,869; Nov. 29; Sp. p. 6134; Gaz. vol. 160; p. 1057.
Graham, Herbert C. (See Wegner, Frederick A., assignor.)
Graham, Horace R. (See Watterson, Charles P., assignor.)
Graham, Isaac N., and J. G. Dula, Deerfield, Va. Gate. No. 961,606; June 14; Sp. p. 2826; Gaz. vol. 155; p. 489.
Graham, James H., Pittsburg, assignor of one-half to E. Kemp, Coal Valley, Pa. Bottle. No. 978,736; Dec. 13; Sp. p. 2862, Gaz. vol. 161; p. 484.
Graham, John J., Sheyenne, N. D. Protector for harvesters. No. 968,935; Aug. 30; Sp. p. 6606; Gaz. vol. 157; p. 1150.
Graham, John L., Reynoldsville, Pa., assignor to Wickes Brothers, Saginaw, Mich. Oscillation for gang-saws. No. 968,342; Aug. 23; Sp. p. 5345; Gaz. vol. 157; p. 921.
Graham, Miles G., Albany, N. Y. Improving the tone or timbre of musical instruments. No. 966,010; Aug. 2; Sp. p. 352; Gaz. vol. 157; p. 57.
Graham Nut Company. (See Mummelthey, Ferdinand, assignor.)
Graham, Philip S. (See McReynolds and Graham.)
Graham, Tilghman, Fort Worth, Tex. Post-card. No. 972,361; Oct. 11; Sp. p. 1838; Gaz. vol. 159; p. 322.
Graham, Wallace S., Lancaster, Ohio. Glass-press. No. 966,440; Aug. 9; Sp. p. 1245; Gaz. vol. 157; p. 225.

Alphabetical list of patentees—Continued.

Graham, Walter E., Philadelphia, Pa. Lawn-edging machine. No. 954,792; Apr. 12; Sp. p. 2378; Gaz. vol. 153; p. 411.

Graham, William H., Detroit, Mich. Dental-crown-swaging device. No. 946,962; Jan. 18; Sp. p. 4382; Gaz. vol. 150; p. 720.

Graham, William J., Toronto, Ontario, Canada. Junction-box. No. 949,426; Feb. 15; Sp. p. 3469; Gaz. vol. 151; p. 606.

Graham, William S., assignor to Federal-Huber Company, Chicago, Ill. Combination supply and overflow fixture. No. 954,731; Apr. 12; Sp. p. 2239; Gaz. vol. 153; p. 389.

Graham, William S., assignor to Federal-Huber Company, Chicago, Ill. Basin-cock. No. 962,083; June 21; Sp. p. 3851; Gaz. vol. 155; p. 673.

Graham, William S., assignor to Federal-Huber Company, Chicago, Ill. Faucet. No. 962,084; June 21; Sp. p. 3853; Gaz. vol. 155; p. 674.

Graham, William S., assignor to Federal-Huber Company, Chicago, Ill. Closet-flushing apparatus. No. 970,214; Sept. 13; Sp. p. 2312; Gaz. vol. 158; p. 389.

Graham, William S., assignor to Parlin & Orendorff Co., Canton, Ill. Lister-cultivator. No. 955,510; Apr. 19; Sp. p. 3911; Gaz. vol. 153; p. 686.

Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Combined corn and cotton planter. No. 966,326; Aug. 2; Sp. p. 1002; Gaz. vol. 157; p. 161.

Graham, William W., New Philadelphia, Ohio. Stovepipe. No. 955,153; Apr. 19; Sp. p. 3143; Gaz. vol. 153; p. 565.

Graham, Zachariah D., St. Paul, Minn. Rubber-stamp rack. No. 954,793; Apr. 12; Sp. p. 2381; Gaz. vol. 153; p. 411.

Grahl, Gustav de, Wilmersdorf, near Berlin, Germany. Boiler-furnace. No. 965,292; July 26; Sp. p. 4938; Gaz. vol. 156; p. 851.

Grahl, Gustav de, Zehlendorf, near Berlin, Germany. Boiler-furnace. No. 969,250; Sept. 6; Sp. p. 220; Gaz. vol. 158; p. 36.

Grahl, Gustav de, Zehlendorf, near Berlin, Germany. Furnace-door. No. 971,266; Sept. 27; Sp. p. 4528; Gaz. vol. 158; p. 792.

Grahl, Gustav de, Zehlendorf, near Berlin, Germany. Boiler-furnace. No. 975,763; Nov. 15; Sp. p. 3737; Gaz. vol. 160; p. 630.

Grahn, Henry. (See Marten and Grahn.)

Grahn, Henry, San Francisco, Cal. Barrel-heater. No. 954,623; Apr. 12; Sp. p. 1988; Gaz. vol. 153; p. 351.

Grain Belt Car Specialty Company. (See Posson, Edward, assignor.)

Grainger, C. J., *et al.* (See Milton, John F., assignor.)

Grainger, Jesse W., *et al.* (See Ashford, Thomas B., assignor.)

Grand Rapids Brass Company. (See Barrett, Glenn J., assignor.)

Grand Rapids Brass Company. (See Tower, Daniel W., assignor.)

Grand Rapids Refrigerator Company. (See Whittier, Walter H., assignor.)

Grand Rapids Show Case Company. (See Freeman, William F., assignor.)

Grand Rapids Show Case Company. (See Lindberg, John H., assignor.)

Grand Rapids Show Case Company. (See Vanderveld, Anthony, assignor.)

Grandchamp, Napoleon J., and L. S. Barnard, Olympia, Wash. Wire-cable cutter. No. 964,860; July 19; Sp. p. 4067; Gaz. vol. 156; p. 678.

Grandjean, Arthur, San Diego, Cal. Carbureting apparatus. No. 953,606; Mar. 29; Sp. p. 6514; Gaz. vol. 152; p. 1164.

Grandperrin, Paul M., Sag Harbor, N. Y. Wood-cutter or countersink. No. 961,770; June 21; Sp. p. 3165; Gaz. vol. 155; p. 568.

Grandperrin, Paul M., Sag Harbor, N. Y. Multiplying attachment. No. 969,360; Sept. 6; Sp. p. 442; Gaz. vol. 158; p. 71.

Grandperrin, Paul M., Sag Harbor, N. Y. Extension-rack for photographers. No. 970,491; Sept. 20; Sp. p. 2871; Gaz. vol. 158; p. 502.

Grandsagne, Pierre A. de, Paris, France. Silencer for explosive engines. No. 947,431; Jan. 25; Sp. p. 5405; Gaz. vol. 150; p. 905.

Graney, Michael C., Hoosick Falls, N. Y. Conveyer-belt. No. 957,769; May 10; Sp. p. 2690; Gaz. vol. 154; p. 462.

Granger, Amédée, New Orleans, La. X ray apparatus. No. 961,607; June 14; Sp. p. 2827; Gaz. vol. 155; p. 489.

Granger, Danus D., New London, Ohio. Egg-tray. No. 947,813; Feb. 1; Sp. p. 61; Gaz. vol. 151; p. 13.

Granger, Frank W., assignor of one-half to H. A. Clark, New York, N. Y. Stamp and envelop moistener. No. 946,963; Jan. 18; Sp. p. 4384; Gaz. vol. 150; p. 721.

Granger, William S., Providence, R. I. Calender-roll. No. 975,686; Nov. 15; Sp. p. 3585; Gaz. vol. 160; p. 604.

Granges, Louis, Paris, France. Self-closing joint for vessels. No. 971,989; Oct. 4; Sp. p. 1064; Gaz. vol. 159; p. 178.

Grannis, Charles S., assignor to New Process Rawhide Company, Syracuse, N. Y. Adjustable shaft-hanger attachment to girders. No. 966,906; Aug. 9; Sp. p. 2326; Gaz. vol. 157; p. 382.

Grant, Benson J., Galena, Kans. Checkrein. No. 946,754; Jan. 18; Sp. p. 3893; Gaz. vol. 150; p. 649.

Grant, Charles, assignor of one-half to R. Plunkett, New York, N. Y. Engine-governor. No. 959,853; May 31; Sp. p. 7403; Gaz. vol. 154; p. 1254.

Grant, Daniel, Memphis, Tenn. Delinting-machine. No. 964,909; July 19; Sp. p. 4171; Gaz. vol. 156; p. 695.

Grant, Edward, Mobile, Ala. Display-carrier. No. 980,097; Dec. 27; Sp. p. 5798; Gaz. vol. 161; p. 994.

Grant, Edwin J., Sandy Point, Me. Thermostatic oil-cup. No. 971,440; Sept. 27; Sp. p. 4843; Gaz. vol. 158; p. 848.

Grant, Francis M., Napoleon, Ohio. Meat-case. No. 978,578; Dec. 13; Sp. p. 2529; Gaz. vol. 161; p. 431.

Grant, Harry C., Bayonne, N. J. Electric switch. No. 961,693; June 14; Sp. p. 2989; Gaz. vol. 155; p. 518.

Grant, Harry C., Bayonne, N. J. Means for securing wheels to axles. No. 965,705; July 26; Sp. p. 5862; Gaz. vol. 156; p. 996.

Grant, Harry C., Bayonne, N. J., assignor, by mesne assignments, to The Lionel Manufacturing Company. Switch used with electric motors. No. 955,154; Apr. 19; Sp. p. 3144; Gaz. vol. 153; p. 565.

Grant, Harry H., Warsaw, Ill. Metal brooding-coop. No. 958,630; May 17; Sp. p. 4813; Gaz. vol. 154; p. 790.

Grant, Harry H., Warsaw, Ill. Automatic feeder and fountain. No. 966,907; Aug. 9; Sp. p. 2327; Gaz. vol. 157; p. 382.

Grant, John B., Atlanta, Ga. Bill-board. No. 977,862; Dec. 6; Sp. p. 962; Gaz. vol. 161; p. 151.

Grant, Joseph C., Akron, Ohio. Dough-raiser. No. 969,533; Sept. 6; Sp. p. 817; Gaz. vol. 158; p. 129.

Grant, Lorenzo E., and E. A. Wegener, Portage, Wis. Eyeglass-mount. No. 964,239; July 12; Sp. p. 2637; Gaz. vol. 156; p. 434.

Grant, Sidney A., Thompsonville, Conn. Envelop-machine. No. 945,386; Jan. 4; Sp. p. 826; Gaz. vol. 150; p. 128.

Grantham, Alexander H., Durban, Natal. Writing implement. No. 979,843; Dec. 27; Sp. p. 5264; Gaz. vol. 161; p. 911.

Grantham, Charles J. (See Roberts and Grantham.)

Grantham, James M., Wauwatosa, Wis. Seeder. No. 971,990; Oct. 4; Sp. p. 1065; Gaz. vol. 159; p. 178.

Gräntzdörffer, August, Magdeburg, Germany. Radiator for vacuum-pans. No. 953,607; Mar. 29; Sp. p. 6520; Gaz. vol. 152; p. 1164.

Granz, Joseph, assignor to Trinity Electric Clock Company, Chicago, Ill. Motor device for electric clocks. No. 945,716; Jan. 4; Sp. p. 1516; Gaz. vol. 150; p. 237.

Grasnick, Carl W., Berlin, assignor to C. Radermacher, Godesberg, Germany. Matrix for linotype-machines. No. 956,337; Apr. 26; Sp. p. 5751; Gaz. vol. 153; p. 1001.

Grass, Henry, Alvin, Tex. Rail connection. No. 945,519; Jan. 4; Sp. p. 1107; Gaz. vol. 150; p. 171.

Grasselli Chemical Company, The. (See Krickbaum, William M., assignor.)

Gratz, Martin, assignor of one-half to C. F. Ryer, Prescott, Ariz. Vapor-burner. No. 954,092; Apr. 5; Sp. p. 835; Gaz. vol. 153; p. 144.

Grau, Adam A., Milwaukee, Wis. Show-case for umbrellas, canes, and the like. No. 953,331; Mar. 29; Sp. p. 5915; Gaz. vol. 152; p. 1068.

Grau, Henry W. (See Grau, O Peter, assignor.)

Grau, O Peter, assignor of one-half to H. W. Grau, Long Green, Md. Friction drive mechanism. No. 956,958; May 3; Sp. p. 1001; Gaz. vol. 154; p. 157.

Grauel, Edwin L., assignor to Troy Telephone Specialty Company, Troy, N. Y. Fuse-supporting connection. No. 972,362; Oct. 11; Sp. p. 1839; Gaz. vol. 159; p. 322.

Graver, Alexander M. (See Graver, William and A. M.)

Graver, William and A. M., Chicago, Ill. Tank-wagon. No. 960,165; May 31; Sp. p. 8088; Gaz. vol. 154; p. 1360.

Graves, Albert H. (See Soans and Graves.)

Graves, Clarence D., Clarksville, Tenn. Temporary binder. No. 971,441; Sept. 27; Sp. p. 4844; Gaz. vol. 158; p. 848.

Graves, David E., Oberlin, Ohio. Combined grading, digging, and leveling machine. No. 962,756; June 28; Sp. p. 5321; Gaz. vol. 155; p. 930.

Graves, Edwin B. (See Graves, Henry R. and E. B.)

Graves, Francis C., Hartford, Conn., assignor to United States Envelope Company, Portland, Me. Gage for trimming or shearing machines. No. 964,240; July 12; Sp. p. 2639; Gaz. vol. 156; p. 434.

Graves, Francis C., Hartford, and A. F. Olin, Windsor, Conn., assignors to United States Envelope Company, Springfield, Mass. Machine for separating and feeding paper blanks. No. 965,889; Aug. 2; Sp. p. 94; Gaz. vol. 157; p. 16.

Graves, George, *et al.* (See Wynn, Robert E., assignor.)

Graves, George A. (See Graves, Herbert and G. A.)

Graves, Henry R. and E. B., Reno, Nev. Electric-cable retriever. No. 972,077; Oct. 4; Sp. p. 1226; Gaz. vol. 159; p. 208.

Alphabetical list of patentees—Continued.

Graves, Herbert and G. A., Springbrook, Oreg. Damper device. No. 974,876; Nov. 8; Sp. p. 1808; Gaz. vol. 160; p. 300.
Graves, Hiram P., Elmira Heights, N. Y. Valve-gear. No. 978,737; Dec. 13; Sp. p. 2863; Gaz. vol. 161; p. 485.
Graves, James C., Midland, Mich., and J. P. Simons, Cleveland, Ohio, assignors to The Dow Chemical Company, Midland, Mich. Making haloids. No. 964,156; July 12; Sp. p. 2476; Gaz. vol. 156; p. 406.
Graves, James T., Wilson, N. C. Combined stalk-cutter and cart. No. 948,854; Feb. 8; Sp. p. 2273; Gaz. vol. 151; p. 386.
Graves, John N. (See Tidnam and Graves.)
Graves, John N., Oklahoma, Okla. Receptacle washer and polisher. No. 977,385; Nov. 29; Sp. p. 7283; Gaz. vol. 160; p. 1237.
Graves, Luther M., Philadelphia, Pa., and J. W. Allen, Lumberton, N. J. Oil-can. No. 965,578; July 26; Sp. p. 5595; Gaz. vol. 156; p. 952.
Graves, Oriel M., Spokane, Wash. Burner. No. 957,857; May 10; Sp. p. 2868; Gaz. vol. 154; p. 491.
Graves, Willard, Pontiac, Mich. Shield. No. 973,936; Oct. 25; Sp. p. 5287; Gaz. vol. 159; p. 918.
Gravity Coal Bin Company. (See Hart, Eli S., assignor.)
Gravity Conveyor Company. (See Schwab, Martin C., assignor.)
Gray, Adelbert W., New York, N. Y. System of electric distribution. No. 949,534; Feb. 15; Sp. p. 3675; Gaz. vol. 151; p. 640.
Gray, Albert M., Roanoke, Va. Shock-absorber. No. 969,052; Aug. 30; Sp. p. 6830; Gaz. vol. 157; p. 1190.
Gray, Alexander M., Milwaukee, Wis., assignor to Allis-Chalmers Company. Rotary field member of dynamo-electric machines. No. 972,850; Oct. 18; Sp. p. 2914; Gaz. vol. 159; p. 518.
Gray, Almon J., *et al.* (See Williams, Roger F., assignor.)
Gray, Bartlett S., executor. (See Gray, Stephen B.)
Gray, Budd D., Providence, R. I. Motor-vehicle. No. 947,637; Jan. 25; Sp. p. 5870; Gaz. vol. 150; p. 974.
Gray, Budd D., Providence, R. I., assignor to American Locomotive Company, New York, N. Y. Supporting-axle for motor-vehicles. No. 947,968; Feb. 1; Sp. p. 400; Gaz. vol. 151; p. 64.
Gray, Charles H., Denver, Colo. Dumb-waiter. No. 969,269; Sept. 6; Sp. p. 251; Gaz. vol. 158; p. 41.
Gray, D. P., *et al.* (See Winkler, Ehregott T., assignor.)
Gray, Edward W., Windsor, Va. Metallic window-shutter. No. 953,995; Apr. 5; Sp. p. 622; Gaz. vol. 153; p. 111.
Gray, Edward W., Jacksonville, Fla. Heel-plate. No. 975,764; Nov. 15; Sp. p. 3739; Gaz. vol. 160; p. 630.
Gray, Emmet P., Detroit, Mich. Check-valve. No. 965,178; July 26; Sp. p. 4706; Gaz. vol. 156; p. 814.
Gray, Emmet P., Detroit, Mich. Signal-bell. No. 969,270; Sept. 6; Sp. p. 255; Gaz. vol. 158; p. 41.
Gray, Emmet P., Detroit, Mich. Strainer. No. 975,687; Nov. 15; Sp. p. 3586; Gaz. vol. 160; p. 604.
Gray, George. (See Felix and Gray.)
Gray, George, assignor to Mianus Motor Works, Mianus, Conn. Gas-engine igniter. No. 956,075; Apr. 26; Sp. p. 5174; Gaz. vol. 153; p. 911.
Gray, George H., San Francisco, Cal. Oven. No. 964,241; July 12; Sp. p. 2640; Gaz. vol. 156; p. 434.
Gray, George M., Boston, Mass. Making garments. No. 963,434; July 5; Sp. p. 950; Gaz. vol. 156; p. 141.
Gray, Harry, and J. A. Kenyon, Rawtenstall, England. Hollow shaft-packing. No. 955,867; Apr. 26; Sp. p. 4720; Gaz. vol. 153; p. 838.
Gray, Harry L. (See Ault, William S., assignor.)
Gray, Hobart H., assignor to The Standard Optical Company. Geneva, N. Y. Nose-guard. No. 979,288; Dec. 20; Sp. p. 4072; Gaz. vol. 161; p. 700.
Gray, Homer L., Alameda, Cal. Mailing-tube. No. 956,636; May 3; Sp. p. 278; Gaz. vol. 154; p. 46.
Gray, James A., Coeur d'Alene, Idaho. Jack-block. No. 952,325; Mar. 15; Sp. p. 3755; Gaz. vol. 152; p. 673.
Gray, John H., East Orange, N. J. Air-lock for excavating apparatus. No. 950,388; Feb. 22; Sp. p. 5506; Gaz. vol. 151; p. 964.
Gray, Joseph A., Norwalk, Conn. Metal band. No. 954,093; Apr. 5; Sp. p. 837; Gaz. vol. 153; p. 144.
Gray Lithograph Company. (See Phelps, Erastus R., assignor.)
Gray, Loftus, Cleveland, Ohio. Manufacturing an explosive compound. No. 967,185; Aug. 16; Sp. p. 2916; Gaz. vol. 157; p. 505.
Gray, Loftus, Cleveland, Ohio. Explosive. No. 975,030; Nov. 8; Sp. p. 2172; Gaz. vol. 160; p. 353.
Gray, Mary E. (See Johnson, Oscar L., assignor.)
Gray, Michael J., Burlington, N. J. Testing-clamp. No. 971,191; Sept. 27; Sp. p. 4374; Gaz. vol. 158; p. 768.
Gray Motor Company. (See Kreis, Oscar C., Jr., assignor.)
Gray National Telautograph Company, The. (See Armstrong, Ralph W., assignor.)
Gray National Telautograph Company, The. (See Tiffany, George C., assignor.)
Gray, Niel, Jr., Oswego, N. Y. Paper-cutting machine. No. 957,553; May 10; Sp. p. 2252; Gaz. vol. 154; p. 390.
Gray, Norman D., West Chester, Pa. Puzzle-lock. No. 976,165; Nov. 22; Sp. p. 4566; Gaz. vol. 160; p. 789.
Gray, Robert J., Waltersburg, Pa. Nut-lock. No. 955,791; Apr. 19; Sp. p. 4528; Gaz. vol. 153; p. 782.
Gray, Stephen B., deceased, Jacksonville, Ill.; B. S. Gray, executor. Dirigible-wheel mount. No. 951,883; Mar. 15; Sp. p. 2902; Gaz. vol. 152; p. 523.
Gray, Thomas, Buffalo, N. Y. Electric-light support. No. 971,192; Sept. 27; Sp. p. 4376; Gaz. vol. 158; p. 768.
Gray, Thomas B. (See Roche, Herbert N., assignor.)
Gray, William A. (See Montgomery, Gray, and Chapin.)
Gray, William A., Newark, N. J. Stationery-box. No. 976,166; Nov. 22; Sp. p. 4567; Gaz. vol. 160; p. 790.
Gray, William T., El Campo, Tex., assignor to El Campo Machine Company. Two-stage pump. No. 963,756; July 12; Sp. p. 1612; Gaz. vol. 156; p. 271.
Gray, William T., El Campo, Tex., assignor to El Campo Machine Company. Well-pumping mechanism. No. 976,565; Nov. 22; Sp. p. 5493; Gaz. vol. 160; p. 929.
Gray, Wiltshire S., assignor of one-half to G. W. Snyder, Indianapolis, Ind. Bottle-dam. No. 960,894; June 7; Sp. p. 1319; Gaz. vol. 155; p. 221.
Graybill, John E., York, Pa. Connection-box for electric conduits. No. 954,954; Apr. 12; Sp. p. 2755; Gaz. vol. 153; p. 467.
Graybill, John E., York, Pa. Circuit-protecting apparatus. No. 969,361; Sept. 6; Sp. p. 446; Gaz. vol. 158; p. 72.
Graybill, John E., York, Pa., assignor to General Electric Company. Automatic flanging-machine. No. 959,930; May 31; Sp. p. 7579; Gaz. vol. 154; p. 1280.
Graydon, George A., assignor of one-half to F. E. Bonfey, Gloversville, N. Y. Sewing-machine attachment. No. 962,021; June 21; Sp. p. 3703; Gaz. vol. 155; p. 650.
Grayson, Pauline, Jersey City, N. J. Artificial fuel. No. 961,608; June 14; Sp. p. 2830; Gaz. vol. 155; p. 490.
Grazer, Charles J. (See Grazer, William E. and C. J.)
Grazer, William E., Pittsburg, and C. J. Grazer, Fairhaven, Pa. Folding shipping box and crate. No. 969,751; Sept. 6; Sp. p. 1290; Gaz. vol. 158; p. 206.
Grearson, Frederick A. (See Thompson and Grearson.)
Great American Automatic Vending Machine Company, The. (See Westervelt, Henry V., assignor.)
Great Western Novelty Company, The. (See Schnoor, Peter J. A., assignor.)
Great Western Pottery Company. (See Conradt, Albert V., assignor.)
Great Western Wire Fence & Mfg. Co. (See Young, Ira J., assignor.)
Greaves, Charles K., Waco, Tex. Ice-cream freezer. No. 970,369; Sept. 13; Sp. p. 2609; Gaz. vol. 158; p. 440.
Greaves, Gertrude M., South Yarra, Victoria, Australia. Adjustable bed attachment or rest for invalids. No. 947,383; Jan. 25; Sp. p. 5295; Gaz. vol. 150; p. 890.
Greaves & Klusman Company, The. (See Greaves, William A., assignor.)
Greaves, Klusman & Company. (See Greaves, William A., assignor.)
Greaves, William A., assignor to The Greaves & Klusman Company, Cincinnati, Ohio. Back-gear for machine-tools. No. 945,271; Jan. 4; Sp. p. 552; Gaz. vol. 150; p. 90.
Greaves, William A., assignor to Greaves and Klusman Company, Cincinnati, Ohio. Gage. No. 946,032; Jan. 11; Sp. p. 2268; Gaz. vol. 150; p. 377.
Greaves, William A., assignor to Greaves, Klusman & Company, Cincinnati, Ohio. Speed-changing device. No. 952,037; Mar. 15; Sp. p. 3206; Gaz. vol. 152; p. 577.
Greaves, William A., assignor to Greaves, Klusman and Company, Cincinnati, Ohio. Tail-stock. No. 956,804; May 3; Sp. p. 653; Gaz. vol. 154; p. 104.
Grebe, Albert. (See Saegmuller and Grebe.)
Grebel, Paul J., Chicago, Ill. Chuck. No. 959,515; May 31; Sp. p. 6699; Gaz. vol. 154; p. 1140.
Grebel, Paul J., and W. J. Theis, assignors to Manufacturers Equipment Company, Chicago, Ill. Air-valve. No. 978,579; Dec. 13; Sp. p. 2529; Gaz. vol. 161; p. 431.
Gredt, Paul, Luxemburg, Germany. Induction-furnace. No. 950,911; Mar. 1; Sp. p. 944; Gaz. vol. 152; p. 151.
Greeley, Charles U., Bangor, Me. Automatic mail-delivering apparatus. No. 945,272; Jan. 4; Sp. p. 555; Gaz. vol. 150; p. 91.
Greeley, Charles U., Bangor, Me. Automatic mail-delivering apparatus. No. 945,273; Jan. 4; Sp. p. 557; Gaz. vol. 150; p. 91.
Greeley Manufacturing Company, The. (See Carr, Dox W., assignor.)
Green, Alfred R., Leeds, England. Shoe-straightener. No. 978,286; Dec. 13; Sp. p. 1889; Gaz. vol. 161; p. 331.
Green, Amos V., Denver, Colo. Crumb-tray. No. 977,185; Nov. 29; Sp. p. 6884; Gaz. vol. 160; p. 1168.
Green, Antonio, Jet, Okla. Wire-stretcher. No. 974,258; Nov. 1; Sp. p. 394; Gaz. vol. 160; p. 58.
Green, Arthur G., Leeds, England. Production of anilin black on fibers and fabrics. No. 959,516; May 31; Sp. p. 6701; Gaz. vol. 154; p. 1140.
Green, Austin E., and C. A. McIntosh, Fort Fairfield, Me. Potato cleaning and barreling device. No. 956,338; Apr. 26; Sp. p. 5752; Gaz. vol. 153; p. 1001.
Green, Charles, assignor to Lefever Arms Company, Syracuse, N. Y. Firing mechanism for guns. No. 974,259; Nov. 1; Sp. p. 396; Gaz. vol. 160; p. 58.

Alphabetical list of patentees—Continued.

Green, Charles H., Chicago, Ill., assignor to The S. Obermayer Company, Cincinnati, Ohio. Snap-band for molds. No. 975,351; Nov. 8; Sp. p. 2865; Gaz. vol. 160; p. 462.

Green, Charles M., Hartford, Conn. Rotary explosive-engine. No. 955,155; Apr. 19; Sp. p. 3145; Gaz. vol. 153; p. 565.

Green, Charles M., Lynn, Mass., assignor to General Electric Company. Vapor-rectifier system. No. 952,109; Mar. 15; Sp. p. 3332; Gaz. vol. 152; p. 600.

Green, Charles M., Lynn, Mass., assignor to General Electric Company. Vapor-rectifier system. No. 958,391; May 17; Sp. p. 4354; Gaz. vol. 154; p. 710.

Green, Charles M., assignor of one-half to A. D. Skinner, Grand Forks, N. D. Grain-fork. No. 966,197; Aug. 2; Sp. p. 763; Gaz. vol. 157; p. 120.

Green, Dallas F., Fort Wayne, Ind. Lens-mounting. No. 954,513; Apr. 12; Sp. p. 1748; Gaz. vol. 153; p. 314.

Green, Elmer E., Walkerville, Md. Wheel-truing device. No. 952,038; Mar. 15; Sp. p. 3207; Gaz. vol. 152; p. 577.

Green Engineering Co. (See Dewey, Jesse S., assignor.)

Green Engineering Company. (See Harrington, Joseph, assignor.)

Green, Fred. (See Outhouse, Harry, assignor.)

Green, Fred F. (See Hart and Green.)

Green, Frederick D., Florence, Ala., assignor of one-half to W. T. Adams, Corinth, Miss. Wood-molding machine. No. 946,507; Jan. 11; Sp. p. 3379; Gaz. vol. 150; p. 542.

Green, Frederick D., assignor of one-half to W. T. Adams, Corinth, Miss. Woodworking-machine. No. 946,508; Jan. 11; Sp. p. 3387; Gaz. vol. 150; p. 543.

Green, Grant C., Beaumont, Tex. Railway-tie. No. 974,788; Nov. 8; Sp. p. 1610; Gaz. vol. 160; p. 270.

Green, Gustavus, Bexhill, England. Valve-operating mechanism for use in internal-combustion engines. No. 979,943; Dec. 27; Sp. p. 5465; Gaz. vol. 161; p. 944.

Green, Henry, Hartford, Conn. X-ray tube. No. 958,488; May 17; Sp. p. 4541; Gaz. vol. 154; p. 744.

Green, Henry R., Spokane, Wash. Oil-burner. No. 962,212; June 21; Sp. p. 4134; Gaz. vol. 155; p. 718.

Green, Herbert S., assignor to Saint Paul Fire & Marine Insurance Company, St. Paul, Minn. Manifolding-pad. No. 945,323; Jan. 4; Sp. p. 691; Gaz. vol. 150; p. 108.

Green, James B. (See Lucas and Green.)

Green, James M., deceased, assignor of one-fourth to F. A. Curtis, Chicago, Ill., and one-fourth to J. E. McCauley, Sylvania, Ohio; The Northern Trust Company, administrator, assignor, by mesne assignments, of one-half to Brilliant Light Company, Chicago, Ill. Burner. No. 954,389; Apr. 5; Sp. p. 1465; Gaz. vol. 153; p. 244.

Green, Jesse B., *et al.* (See Brabham, John A., assignor.)

Green, John D., Chillicothe, Ohio. Collapsible tub. No. 962,954; June 28; Sp. p. 5688; Gaz. vol. 155; p. 997.

Green, John R., Woodstock, Ala. Steel combination railway-tie. (Reissue.) No. 13,085; Mar. 1; Sp. p. 1284; Gaz. vol. 152; p. 211.

Green, John S., Philadelphia, Pa. Smoke-consumer. No. 975,688; Nov. 15; Sp. p. 3587; Gaz. vol. 160; p. 604.

Green, John W., St. Louis, Mo. Device for feeding sash-cords to weights. No. 951,071; Mar. 1; Sp. p. 1231; Gaz. vol. 152; p. 202.

Green, Jonathan S., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Blading for elastic-fluid turbines. No. 950,803; Mar. 1; Sp. p. 741; Gaz. vol. 152; p. 118.

Green, Jonathan S., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Blading for elastic-fluid turbines. No. 950,804; Mar. 1; Sp. p. 743; Gaz. vol. 152; p. 118.

Green, Jonathan S., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 953,526; Mar. 29; Sp. p. 6354; Gaz. vol. 152; p. 1138.

Green, L. H. (See Sundell, Godfrey E., assignor.)

Green, Leonard M. (See Holms, Green, and Pattinson.)

Green, Malcolm, Boston, Mass. Deflector for furnaces. No. 969,752; Sept. 6; Sp. p. 1291; Gaz. vol. 158; p. 207.

Green, Paul E. (See Ream and Green.)

Green, Raphael S., Chicago, Ill. Blade-sharpening machine. No. 950,284; Feb. 22; Sp. p. 5319; Gaz. vol. 151; p. 932.

Green, Robert E., New York, N. Y. Airship. No. 960,539; June 7; Sp. p. 620; Gaz. vol. 155; p. 100.

Green, Thomas L., Indianapolis, Ind. Wire-cut soft-cake machine. No. 970,370; Sept. 13; Sp. p. 2611; Gaz. vol. 158; p. 441.

Green, Thomas W., New York, N. Y. Bottle-holder. No. 950,790; Mar. 1; Sp. p. 714; Gaz. vol. 152; p. 114.

Green, Thomas W., Philadelphia, Pa. Rotary blower and exhauster. No. 973,190; Oct. 18; Sp. p. 3733; Gaz. vol. 159; p. 638.

Green, Walter L., Denver, Colo. Fuse-replacing device. No. 950,389; Feb. 22; Sp. p. 5508; Gaz. vol. 151; p. 965.

Green, Warren C., Concordia, Kans. Tray-attaching device. No. 961,771; June 21; Sp. p. 3166; Gaz. vol. 155; p. 568.

Green, William H., The Dalles, Oreg. Target. No. 950,101; Feb. 22; Sp. p. 4934; Gaz. vol. 151; p. 868.

Green, William J., Chicago, Ill. Concrete tie. No. 977,728; Dec. 6; Sp. p. 683; Gaz. vol. 161; p. 106.

Green, William M., Evanston, Ill., assignor of one-half to H. Pew, Weehawken, N. J. Hydrocarbon-burner. No. 977,186; Nov. 29; Sp. p. 6886; Gaz. vol. 160; p. 1169.

Green, William W., Niles, Mich. Railway-tie. No. 972,444; Oct. 11; Sp. p. 2001; Gaz. vol. 159; p. 352.

Greenan, Hugh A., and F. O. Redford, assignors to American Water Main Cleaning and Contracting Co., Louisville, Ky. Cleaner for mains and pipes. No. 957,051; May 3; Sp. p. 1185; Gaz. vol. 154; p. 188.

Greenawald, Karl E. (See Knott, Frederick, assignor.)

Greenawalt, David F., Philadelphia, Pa. Filing-case. No. 964,242; July 12; Sp. p. 2642; Gaz. vol. 156; p. 435.

Greenawalt, William E., Denver, Colo. Extracting metals from their ores. No. 968,651; Aug. 30; Sp. p. 5996; Gaz. vol. 157; p. 1054.

Greenawalt, William E., Denver, Colo. Extracting metals from their ores. No. 968,652; Aug. 30; Sp. p. 6002; Gaz. vol. 157; p. 1055.

Greenawalt, William E., Denver, Colo. Extracting metals from their ores. No. 968,845; Aug. 30; Sp. p. 6417; Gaz. vol. 157; p. 1118.

Greenawalt, William E., Denver, Colo. Extracting metals from their ores. No. 973,776; Oct. 25; Sp. p. 4955; Gaz. vol. 159; p. 862.

Greenbaum, Oscar, assignor to Langfeld Bros. & Company, Philadelphia, Pa. Snap-catch for pocket-books, handbags, and the like. No. 964,641; July 19; Sp. p. 3516; Gaz. vol. 156; p. 601.

Greenberg Automatic Fitting Machine Company. (See Greenberg, Samuel E., assignor.)

Greenberg, Benjamin, Philadelphia, Pa. Watch-protector. No. 953,527; Mar. 29; Sp. p. 6355; Gaz. vol. 152; p. 1138.

Greenberg, Jacob, assignor to Neostyle Envelope Company, New York, N. Y. Wrapper. No. 960,311; June 7; Sp. p. 143; Gaz. vol. 155; p. 27.

Greenberg, Samuel, assignor of one-half to G. W. Happle, Fort Washington, Md. Clothes-hanger. No. 947,102; Jan. 18; Sp. p. 4643; Gaz. vol. 150; p. 766.

Greenberg, Samuel E., assignor to Greenberg Automatic Fitting Machine Company, Chicago, Ill. Pinning-machine. No. 979,758; Dec. 27; Sp. p. 5065; Gaz. vol. 161; p. 882.

Greene, Elmer E., Altoona, Pa. Metallic car-sash. No. 954,094; Apr. 5; Sp. p. 838; Gaz. vol. 153; p. 145.

Greene, Frank C. (See Greene, Oscar V., assignor.)

Greene, Frank C., Cleveland, Ohio. Car-dumping mechanism. No. 946,636; Jan. 18; Sp. p. 3633; Gaz. vol. 150; p. 610.

Greene, Frank C., Cleveland, Ohio. Car-lift. No. 949,228; Feb. 15; Sp. p. 3026; Gaz. vol. 151; p. 537.

Greene, Frank C., Cleveland, Ohio. Car-dumping mechanism. No. 976,168; Nov. 22; Sp. p. 4578; Gaz. vol. 160; p. 790.

Greene, Frank C., Cleveland, Ohio. Car-dumping mechanism. No. 976,170; Nov. 22; Sp. p. 4594; Gaz. vol. 160; p. 791.

Greene, Frank C., Cleveland, and C. G. Palmer, East Cleveland, Ohio; said Palmer assignor to said Greene. Continuous car-dumping mechanism. No. 976,167; Nov. 22; Sp. p. 4568; Gaz. vol. 160; p. 790.

Greene, Frank C., Cleveland, and C. G. Palmer, East Cleveland, Ohio; said Palmer assignor to said Greene. Continuous car-dumping mechanism. No. 976,169; Nov. 22; Sp. p. 4590; Gaz. vol. 160; p. 791.

Greene, Frederick R. (See Fournia, John, assignor.)

Greene, Harry J., North Brooksville, Me. Soldering implement. No. 957,327; May 10; Sp. p. 1801; Gaz. vol. 154; p. 314.

Greene, Herbert W., *et al.* (See Woods, John H., assignor.)

Greene, Howard, Cranford, N. J., assignor of one-third to W. F. Blaisdell, Brooklyn, and one-third to J. H. Kennard, New York, N. Y. Wagon. No. 974,877; Nov. 8; Sp. p. 1809; Gaz. vol. 160; p. 300.

Greene, James G., and L. F. A. Büchner, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine. No. 949,729; Feb. 15; Sp. p. 4051; Gaz. vol. 151; p. 703.

Greene, John. (See Kingsley, Greene, and Sadleir.)

Greene, Lemual A., Greenville, S. C., assignor, by mesne assignments, to Farmers' Cotton Grader Company. Cotton-grader. No. 952,802; Mar. 22; Sp. p. 4802; Gaz. vol. 152; p. 864.

Greene, Oscar V., assignor to F. C. Greene, Cleveland, Ohio. Crossover-dump. No. 964,965; July 19; Sp. p. 4274; Gaz. vol. 156; p. 713.

Greene, Thomas S., Pasadena, Cal. Resonating-support for sound-reproducing instruments. No. 949,269; Feb. 15; Sp. p. 3124; Gaz. vol. 151; p. 551.

Greene, William H., Ann Arbor, Mich. Drill-feed. No. 975,031; Nov. 8; Sp. p. 2174; Gaz. vol. 160; p. 354.

Greene, William J., assignor to W. Barbour & Sons, Limited, Lisburn, Ireland. Thread-holder. No. 947,517; Jan. 25; Sp. p. 5626; Gaz. vol. 150; p. 934.

Greenebaum, David S., *et al.* (See Lacroix, Fred, assignor.)

Greeneisen, R. R. (See Stoffer, Jacob L., assignor.)

Greenfield, Edwin T., Kiamesha, N. Y. Treating metal and other tubes or rods. No. 947,439; Jan. 25; Sp. p. 5419; Gaz. vol. 150; p. 908.

Alphabetical list of patentees—Continued.

Greenfield, Edwin T., Kiamesha, N. Y. Mechanism for treating metal or other tubes or rods. No. 947,440; Jan. 25; Sp. p. 5423; Gaz. vol. 150; p. 908.
Greenfield, Edwin T., Kiamesha, N. Y. Coupling. No. 956,076; Apr. 26; Sp. p. 5177; Gaz. vol. 153; p. 912.
Greenfield, Edwin T., Kiamesha, N. Y. Coupling. No. 956,077; Apr. 26; Sp. p. 5179; Gaz. vol. 153; p. 912.
Greenfield, Edwin T., Kiamesha, N. Y. Tubing. No. 966,396; Aug. 2; Sp. p. 1136; Gaz. vol. 157; p. 184.
Greenfield, Edwin T., Kiamesha, N. Y. Hose. No. 967,901; Aug. 23; Sp. p. 4363; Gaz. vol. 157; p. 770.
Greenfield, Edwin T., Kiamesha, N. Y. Junction-box. No. 975,032; Nov. 8; Sp. p. 2175; Gaz. vol. 160; p. 354.
Greenfield, Edwin T., Kiamesha, N. Y. Hose. No. 979,759; Dec. 27; Sp. p. 5071; Gaz. vol. 161; p. 883.
Greenfield, Edwin T., Kiamesha, N. Y. Hose. No. 979,760; Dec. 27; Sp. p. 5072; Gaz. vol. 161; p. 883.
Greenfield, Ella M., Erie, Pa. Grain-car door. No. 956,078; Apr. 26; Sp. p. 5180; Gaz. vol. 153; p. 912.
Greenfield Machine Company, The. (See Smith, Edward F., assignor.)
Greenfield, Richard F. (See Olsson, John W., assignor.)
Greenfield, Rudolf, Philadelphia, Pa. Combined fan and sun-shade. No. 956,959; May 3; Sp. p. 1007; Gaz. vol. 154; p. 158.
Greening, William J., Middletown, N. Y. Means for lubricating axles, bearings, and the like. No. 962,955; June 28; Sp. p. 5689; Gaz. vol. 155; p. 997.
Greenlaw, Arthur L. (See Jewett and Greenlaw.)
Greenlaw Manufacturing Co., The. (See Jewett and Greenlaw, assignors.)
Greenlaw Manufacturing Company, The. (See Greenlaw, Warren A., assignor.)
Greenlaw, Warren A., Melrose Highlands, Mass. Lamp-controlling device for motor-cars. No. 977,729; Dec. 6; Sp. p. 684; Gaz. vol. 161; p. 106.
Greenlaw, Warren A., Melrose Highlands, assignor to The Greenlaw Manufacturing Company, Boston, Mass. Flexible pipe-joint. No. 978,876; Dec. 20; Sp. p. 3124; Gaz. vol. 161; p. 554.
Greenleaf, George E., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Metal-planer. No. 972,363; Oct. 11; Sp. p. 1841; Gaz. vol. 159; p. 322.
Greenleaf, W. F. (See Melchert, August L., assignor.)
Greeniee, William F., Atchison, Kans. Water-guard for chimneys. No. 960,088; May 31; Sp. p. 7951; Gaz. vol. 154; p. 1336.
Greeno, Grover C. (See Williams and Greeno.)
Greenough, Charles E. (See Tufts, Edward R., assignor.)
Greenslitt, Charles W., assignor of one-third to A. C. Morse and one-third to C. F. Saenger, Cleveland, Ohio. Apparatus for measuring telephone service. No. 965,453; July 26; Sp. p. 5302; Gaz. vol. 156; p. 906.
Greenspun, Jacob, *et al.* (See Henry, Charles J., assignor.)
Greenstran, Oscar, Granada, Minn. Jack. No. 962,506; June 28; Sp. p. 4787; Gaz. vol. 155; p. 843.
Greenwald, Isador, J. Blaustein, Pittsburg, and M. Z. Weiss, McKeesport, Pa. Lamp-extinguisher. No. 970,813; Sept. 20; Sp. p. 3609; Gaz. vol. 158; p. 616.
Greenwald, Isador, J. Blaustein, Pittsburg, M. Z. Weiss and M. Selkovits, McKeesport, Pa. Lamp-extinguisher. No. 975,352; Nov. 8; Sp. p. 2865; Gaz. vol. 160; p. 462.
Greenwald, Isidor, and I. Harrison, Pittsburg, Pa. Attachment for jewelers' lathes. No. 965,105; July 19; Sp. p. 4553; Gaz. vol. 156; p. 759.
Greenwald, Jonas, New York, N. Y. Trousers. No. 968,343; Aug. 23; Sp. p. 5348; Gaz. vol. 157; p. 922.
Greenwald, Lemon, Buffalo, N. Y. Non-skid tire. No. 952,039; Mar. 15; Sp. p. 3209; Gaz. vol. 152; p. 577.
Greenway, Henry H. (See Sulman, Greenway, and Higgins.)
Greenway, Richard J., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Ink-fountain for printing-presses. No. 975,856; Nov. 15; Sp. p. 3923; Gaz. vol. 160; p. 661.
Greenwood, Percy T., assignor to J. J. Beirne, Bridgeport, Conn. Pipe-wrench. No. 965,890; Aug. 2; Sp. p. 98; Gaz. vol. 157; p. 16.
Greenwood, Thomas, Halifax, England. Gear-cutting machine and cutters. No. 966,683; Aug. 9; Sp. p. 1804; Gaz. vol. 157; p. 309.
Greenwood, William G., Prescott, Ariz. Revolver-display stand. No. 945,520; Jan. 4; Sp. p. 1109; Gaz. vol. 150; p. 171.
Greenwood, Williston W., Los Angeles, Cal. Type-scale. No. 975,689; Nov. 15; Sp. p. 3591; Gaz. vol. 160; p. 605.
Greer, Benjamin J., Athens, Tex. Padlock. No. 954,795; Apr. 12; Sp. p. 2382; Gaz. vol. 153; p. 411.
Greer, Frank, Cleveland, Ohio, assignor of one-half to W. R. Smith, Jackson, Mich. Cushion. No. 963,757; July 12; Sp. p. 1614; Gaz. vol. 156; p. 272.
Greer, Howard, Jr., Chicago, Ill. Coke-drawing machine. No. 977,522; Dec. 6; Sp. p. 235; Gaz. vol. 161; p. 35.
Greer, Jackson K., Berner, Ga. Nut-lock. No. 967,367; Aug. 16; Sp. p. 3280; Gaz. vol. 157; p. 568.
Greer, Santford M., *et al.* (See Baughn, Samuel C., assignor.)
Greer, William E., Kenmore, assignor of one-third to W. F. Pfeiffer, Akron, and one-third to J. Pfeiffer, Columbus, Ohio. Vehicle-wheel rim. No. 959,732; May 31; Sp. p. 7143; Gaz. vol. 154; p. 1212.
Greer, William H. C., Sherman, Tex. Suspension-bridge. No. 968,552; Aug. 30; Sp. p. 5786; Gaz. vol. 157; p. 1019.
Greer, William J., Goldthwaite, Tex. Insect collector and destroyer. No. 971,193; Sept. 27; Sp. p. 4379; Gaz. vol. 158; p. 769.
Greeven, Walther, Crefeld, Germany. Card-cutting machine. No. 957,052; May 3; Sp. p. 1186; Gaz. vol. 154; p. 188.
Greeves, Walter B., and L. J. Black, Beaumont, Tex. Rope-socket. No. 966,011; Aug. 2; Sp. p. 355; Gaz. vol. 157; p. 57.
Gregg Company, The. (See Gregg, Louis D., assignor.)
Gregg, Francis F., Monessen, Pa., assignor to L. A. Burrell, Cincinnati, Ohio. Adjustable mechanism for feeding metal hoops, bands, strips, or bars to rolls. No. 956,525; May 3; Sp. p. 30; Gaz. vol. 154; p. 8.
Gregg, Louis D., Newburgh, N. Y., assignor to The Gregg Company, Ltd. Cane-sling. No. 948,577; Feb. 8; Sp. p. 1682; Gaz. vol. 151; p. 293.
Gregg, Louise I., Santa Monica, and E. A. De Voss, Los Angeles, Cal. Auxiliary car-step. No. 969,362; Sept. 6; Sp. p. 449; Gaz. vol. 158; p. 72.
Gregg, Margaret M., Brooklyn, N. Y. Coloring leather and product thereof. No. 970,326; Sept. 13; Sp. p. 2526; Gaz. vol. 158; p. 426.
Gregg, Norris B., assignor to National Veneer Package Company, St. Louis, Mo. Receptacle. No. 966,740; Aug. 9; Sp. p. 1957; Gaz. vol. 157; p. 329.
Gregg Publishing Company, The. (See Mallin, Isaac H., assignor.)
Gregg, Watson H., Cambridge, Ohio. Safety device for mine-shafts. No. 946,350; Jan. 11; Sp. p. 2940; Gaz. vol. 150; p. 488.
Greggs, Uriah C., Terre Haute, Ind. Wrench. No. 970,371; Sept. 13; Sp. p. 2618; Gaz. vol. 158; p. 441.
Gregory, C. V. (See Naylor, Joseph S., assignor.)
Gregory, Fred L., assignor to Foley-Gregory Engine Company, Chicago, Ill. Engine. No. 954,095; Apr. 5; Sp. p. 839; Gaz. vol. 153; p. 145.
Gregory, George H., Mount Carmel, Ill. Furnace fire-door. No. 948,218; Feb. 1; Sp. p. 897; Gaz. vol. 151; p. 147.
Gregory, George H., Mount Carmel, Ill. Furnace-door-operating mechanism. No. 962,339; June 21; Sp. p. 4416; Gaz. vol. 155; p. 761.
Gregory, J. Allen. (See Johnson, Oscar W., assignor.)
Gregory, John, Hamden, N. Y. Ice-creeper. No. 946,543; Jan. 18; Sp. p. 3451; Gaz. vol. 150; p. 580.
Gregory, John J., Hazleton, Pa. Miter-box. No. 970,327; Sept. 13; Sp. p. 2527; Gaz. vol. 158; p. 426.
Gregory, Joseph, assignor of one-third to J. Isbell and one-third to J. H. Schaper, Washington, Mo. Bundle-tying device. No. 960,089; May 31; Sp. p. 7952; Gaz. vol. 154; p. 1336.
Gregory, Luther C., Friendship, Tenn. Double-shovel plow. No. 954,279; Apr. 5; Sp. p. 1234; Gaz. vol. 153; p. 206.
Gregory, Robert H. (See Coleman, Lewis A., assignor.)
Gregory, Walter. (See Wilkinson, Gregory, and Jenkins.)
Gregory, William B., and A. M. Lockett, New Orleans, La. Means for measuring water for irrigation purposes. No. 967,512; Aug. 16; Sp. p. 3591; Gaz. vol. 157; p. 616.
Gregson, Emily G. L., Fort Worth, Tex. Crude-oil burner. No. 976,358; Nov. 22; Sp. p. 5048; Gaz. vol. 160; p. 857.
Gregson, Lewis, assignor to Morse Twist Drill & Machine Company, New Bedford, Mass. Tool-socket. No. 972,105; Oct. 4; Sp. p. 1274; Gaz. vol. 159; p. 216.
Greig, Harry B., Cleveland, Ohio. Lathe. No. 958,631; May 17; Sp. p. 4815; Gaz. vol. 154; p. 790.
Greim, Otto F., assignor to The Milwaukee Coke and Gas Company, Milwaukee, Wis. Foul-gas valve. No. 948,049; Feb. 1; Sp. p. 564; Gaz. vol. 151; p. 90.
Greim, Otto F., assignor to The Milwaukee Coke and Gas Company, Milwaukee, Wis. Automatic pressure-regulator for gas-collecting mains. No. 974,260; Nov. 1; Sp. p. 405; Gaz. vol. 160; p. 59.
Greiner, Charles F., Biloxi, Miss. Apparatus for picking crabs and other crustacea. No. 965,706; July 26; Sp. p. 5863; Gaz. vol. 156; p. 996.
Greiner, Eugene R., Brantford, Ontario, Canada. Clothes-drying frame. No. 974,052; Oct. 25; Sp. p. 5526; Gaz. vol. 159; p. 958.
Greiner, Joseph C. (See Vale, Andrew M., assignor.)
Greist, Hubert M., New Haven, Conn. Tumbling-barrel. No. 965,813; July 26; Sp. p. 6087; Gaz. vol. 156; p. 1032.
Greive, Norman I. (See Blodgett, Frank, assignor.)
Gremel, Frank J., Detroit, Mich. Explosive-engine. No. 963,043; July 5; Sp. p. 30; Gaz. vol. 156; p. 7.
Grémi, Louis, Puteaux, France. Coupling mechanism for motor-cars. No. 965,814; July 26; Sp. p. 6088; Gaz. vol. 156; p. 1032.
Grenelle, Edward A., assignor to The West Tire Setter Company, Rochester, N. Y. Tire-setter. No. 973,035; Oct. 18; Sp. p. 3374; Gaz. vol. 159; p. 584.

Grenier, Emadia J., Menominee, Mich. Combined jack and restoring-trip. No. 954,624; Apr. 12; Sp. p. 1988; Gaz. vol. 153; p. 351.
Grenier, Joseph N., Boston, Mass. Skylight. No. 951,112; Mar. 8; Sp. p. 1315; Gaz. vol. 152; p. 241.
Greshner, J. H. (See Wertz, Harvey C., assignor.)
Greter, John G., Crestline, Ohio. Collar. No. 978,738; Dec. 13; Sp. p. 2865; Gaz. vol. 161; p. 485.
Greth, John C. W., assignor to Wm. B. Scaife & Sons Company, Pittsburg, Pa. Water-purifying apparatus. No. 973,424; Oct. 18; Sp. p. 4216; Gaz. vol. 159; p. 718.
Greve, Herman L., Brooklyn, N. Y. Mailing tube or wrapper. No. 951,421; Mar. 8; Sp. p. 1956; Gaz. vol. 152; p. 340.
Grever, Edward C., Cincinnati, Ohio. Garment-pressing machine. No. 979,844; Dec. 27; Sp. p. 5265; Gaz. vol. 161; p. 911.
Grevillius, Carl G. O., Stockholm, Sweden. Firearm. No. 972,364; Oct. 11; Sp. p. 1843; Gaz. vol. 159; p. 323.
Grewe, Albert H., Des Plaines, Ill. Muffler for explosive-engines. No. 978,287; Dec. 13; Sp. p. 1891; Gaz. vol. 161; p. 331.
Grewen, John A. and W., Johnstown, N. Y. Skirt. No. 975,947; Nov. 15; Sp. p. 4104; Gaz. vol. 160; p. 693.
Grewen, William. (See Grewen, John A. and W.)
Grey, Charles M., East Orange, N. J., assignor to New York Steel Beam & Girder Company, New York, N. Y. Art of rolling. No. 968,464; Aug. 23; Sp. p. 5578; Gaz. vol. 157; p. 962.
Grey, Charles M., East Orange, N. J., assignor to New York Steel Beam & Girder Company, New York, N. Y. Art of rolling. No. 968,465; Aug. 23; Sp. p. 5581; Gaz. vol. 157; p. 963.
Grey, William G., and W. Griffith, Pittsburg, Pa. Electrolyte for depositing copper. No. 976,454; Nov. 22; Sp. p. 5254; Gaz. vol. 160; p. 892.
Grey, William G., and W. Griffith, Pittsburg, Pa. Uniting metals. No. 976,455; Nov. 22; Sp. p. 5256; Gaz. vol. 160; p. 892.
Grey, William G., and W. Griffith, Pittsburg, Pa. Uniting metals. No. 976,456; Nov. 22; Sp. p. 5257; Gaz. vol. 160; p. 892.
Gribben, John E., Moundsville, W. Va. Washing-machine. No. 952,192; Mar. 15; Sp. p. 3480; Gaz. vol. 152; p. 627.
Gribble, John W., Tuttletown, Cal. Washboard. No. 954,429; Apr. 12; Sp. p. 1544; Gaz. vol. 153; p. 284.
Gridley, George O., Windsor, Vt. Lathe. No. 971,370; Sept. 27; Sp. p. 4724; Gaz. vol. 158; p. 825.
Gridley, Lewis G. (See Baker, William J., assignor.)
Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Presser-foot. No. 955,962; Apr. 26; Sp. p. 4924; Gaz. vol. 153; p. 871.
Grierson, Thomas C., Eveleth, Minn. Pipe-coupling. No. 959,854; May 31; Sp. p. 7405; Gaz. vol. 154; p. 1255.
Gries, Harry, *et al.* (See Gierth, William, assignor.)
Griesbeck, Albert, New York, N. Y. Package-protector. No. 969,950; Sept. 13; Sp. p. 1741; Gaz. vol. 158; p. 299.
Grieser, Richard, assignor to The Pollard-Alling Manufacturing Co., New York, N. Y. Engraving-machine. No. 955,868; Apr. 26; Sp. p. 4721; Gaz. vol. 153; p. 838.
Grieshaber, Benjamin, Chicago, Ill. Self-filling fountain-pen. No. 956,895; May 3; Sp. p. 860; Gaz. vol. 154; p. 137.
Griesser, Wilhelm, Pittsburg, Pa. Attachment for storage and refrigerating tanks. No. 948,219; Feb. 1; Sp. p. 898; Gaz. vol. 151; p. 147.
Griffen, Arthur B., Verona, N. J. Liquid-measuring pump. No. 969,271; Sept. 6; Sp. p. 255; Gaz. vol. 158; p. 42.
Griffen, Catherine S., administratrix. (See Griffen, Henry R.)
Griffen, Henry R., deceased, Phoenixville, Pa.; C. S. Griffen, administratrix. Calculating or computing machine. No. 979,391; Dec. 20; Sp. p. 4250; Gaz. vol. 161; p. 732.
Griffeth, Francis E., Athens, Ga. Sad-iron holder. No. 958,634; May 17; Sp. p. 4821; Gaz. vol. 154; p. 791.
Griffin, Alvah H., and W. A. Kirksey, Lincoln, Ala. Coin and letter holder for rural mail-boxes. No. 952,614; Mar. 22; Sp. p. 4382; Gaz. vol. 152; p. 800.
Griffin, Anthony J., New York, N. Y. Submarine vessel. No. 958,742; May 24; Sp. p. 5051; Gaz. vol. 154; p. 853.
Griffin, C. J. (See Garton, William R., assignor.)
Griffin, Charles J. (See Garton, William R., assignor.)
Griffin, Charles W. (See Whitney and Griffin.)
Griffin, Edward. (See Reeves, George H., assignor.)
Griffin, Elvin H., South Boston, Va. Back-band attachment. No. 958,879; May 17; Sp. p. 2927; Gaz. vol. 154; p. 530.
Griffin, Hubert C., assignor of one-third to C. S. Ware, Bristol, England. Change-speed gear. No. 958,632; May 17; Sp. p. 4817; Gaz. vol. 154; p. 791.
Griffin, John V., Toungoo, Burma, India. Bottle-seal. No. 962,022; June 21; Sp. p. 3705; Gaz. vol. 155; p. 651.
Griffin, Melvern B., *et al.* (See Febiger, Henry B., assignor.)
Griffin, Michael G., Cincinnati, Ohio. Loose-leaf binder. No. 958,633; May 17; Sp. p. 4820; Gaz. vol. 154; p. 791.
Griffin, Orrin F., New York, N. Y. Attachment for automobile-engines. No. 965,626; July 26; Sp. p. 5703; Gaz. vol. 156; p. 969.
Griffin, Patrick, Saron, Tex. Sewing-machine attachment. No. 960,895; June 7; Sp. p. 1320; Gaz. vol. 155; p. 221.
Griffin, Patrick J., Camden, N. J. Blowpipe for welding metal. No. 955,064; Apr. 12; Sp. p. 2966; Gaz. vol. 153; p. 503.
Griffin, Stanley, Elyria, Ohio. Road-scraper. No. 945,088; Jan. 4; Sp. p. 174; Gaz. vol. 150; p. 29.
Griffin, Stanton D., West Point, Miss. Locomotive automatic stoker. No. 948,220; Feb. 1; Sp. p. 901; Gaz. vol. 151; p. 147.
Griffing, Charles E., Salt Lake City, Utah. Explosive. No. 979,476; Dec. 27; Sp. p. 4441; Gaz. vol. 161; p. 784.
Griffis, Elias L., Pearson, Ga. Banjo-bridge. No. 974,053; Oct. 25; Sp. p. 5527; Gaz. vol. 159; p. 958.
Griffith, Charles J., St. Louis, Mo. Railway-crossing. No. 963,758; July 12; Sp. p. 1616; Gaz. vol. 156; p. 272.
Griffith, Graves, San Francisco, Cal. Range-finder. No. 959,338; May 24; Sp. p. 6317; Gaz. vol. 154; p. 1056.
Griffith, Horace F. (See Godman and Niemeyer, assignors.)
Griffith, Jacob K., Latrobe, Pa. Mold for casting car-wheels. No. 971,604; Oct. 4; Sp. p. 210; Gaz. vol. 159; p. 37.
Griffith, Jacob K., Latrobe, Pa. Mold for casting car-wheels. No. 971,605; Oct. 4; Sp. p. 211; Gaz. vol. 159; p. 37.
Griffith, Lawrence, Yonkers, N. Y. Insulated rail-joint. No. 969,856; Sept. 13; Sp. p. 1548; Gaz. vol. 158; p. 266.
Griffith, Lumen, Hudson, Mich. Sound-reproducing device for talking-machines. No. 971,442; Sept. 27; Sp. p. 4845; Gaz. vol. 158; p. 848.
Griffith, Stanton, Rockford, Ill., assignor to J. Crist, Beloit, Wis. Molding apparatus. No. 954,430; Apr. 12; Sp. p. 1545; Gaz. vol. 153; p. 284.
Griffith, Thomas A., Kansas City, Mo. Overshoe for horses, mules, &c. No. 950,131; Feb. 22; Sp. p. 4994; Gaz. vol. 151; p. 878.
Griffith, William. (See Grey and Griffith.)
Griffith, William, Pittsburg, Pa. Producing hollow articles of metal. No. 959,518; May 31; Sp. p. 6704; Gaz. vol. 154; p. 1141.
Griffith, William, assignor of one-half to J. M. Anderson, Pittsburg, Pa. Uniting metals. No. 959,517; May 31; Sp. p. 6703; Gaz. vol. 154; p. 1140.
Griffiths, Daniel D., New Madrid, Mo. Pneumatic suction-cleaner. No. 963,139; July 5; Sp. p. 284; Gaz. vol. 156; p. 39.
Griffiths, David M. (See Speicher, Mathias, assignor.)
Griffiths, Gomer T., *et al.* (See Russell, Robert C., assignor.)
Griffiths, William U., Philadelphia, Pa. Ceiling-bend for supporting pipes. No. 967,902; Aug. 23; Sp. p. 4365; Gaz. vol. 157; p. 770.
Griffiths, William U., Philadelphia, Pa. Air-compressing apparatus. No. 974,261; Nov. 1; Sp. p. 408; Gaz. vol. 160; p. 60.
Griggs, David C., and R. L. Wilcox, assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Feed mechanism. No. 968,046; Aug. 23; Sp. p. 4685; Gaz. vol. 157; p. 819.
Griggs, E. M. (See Riley, Samuel L., assignor.)
Griggs, Eli Z., Athens, Pa. Safety oar-lock. No. 951,685; Mar. 8; Sp. p. 2474; Gaz. vol. 152; p. 429.
Grigsby, Joseph B., *et al.* (See Henshaw, Fred M., assignor.)
Grigsby, William W., Winnfield, La. Cuspidor. No. 967,368; Aug. 16; Sp. p. 3282; Gaz. vol. 157; p. 568.
Grills, Thomas O., Brooklyn, assignor of one-half to C. H. Ferris, New York, N. Y. Vertically-adjustable curtain-support. No. 945,324; Jan. 4; Sp. p. 693; Gaz. vol. 150; p. 108.
Grim, Charles B., Camden, N. J. Wrench structure. No. 959,056; May 24; Sp. p. 5725; Gaz. vol. 154; p. 962.
Grimberg, Frederich H. (See Leimbach and Grimberg.)
Grimes, Charles D., deceased; H. E. Dill, administrator, assignor to M. B. Grimes, Dayton, Ohio. Machine for forming and attaching fasteners to paper receptacles. No. 970,314; Sept. 13; Sp. p. 2503; Gaz. vol. 158; p. 422.
Grimes, George L., Detroit, Mich. Molding-machine. No. 972,851; Oct. 18; Sp. p. 2916; Gaz. vol. 159; p. 518.
Grimes, Howard, Newcomb, N. Y. Machine for leveling and rolling snow on roads. No. 955,590; Apr. 19; Sp. p. 4085; Gaz. vol. 153; p. 713.
Grimes, Howard, Newcomb, N. Y. Snow-plow. No. 964,157; July 12; Sp. p. 2478; Gaz. vol. 156; p. 406.
Grimes, Howard, Newcomb, N. Y. Snow-plow. No. 964,158; July 12; Sp. p. 2480; Gaz. vol. 156; p. 407.
Grimes, Howard, Newcomb, N. Y. Snow-plow. No. 964,159; July 12; Sp. p. 2482; Gaz. vol. 156; p. 407.
Grimes, Mary B. (See Grimes, Charles D., assignor.)
Grimes, Thaddeus S., Columbus, Ga., assignor to F. H. Lummus Sons Company. Gear mechanism for cotton-gin feeders. No. 978,877; Dec. 20; Sp. p. 3126; Gaz. vol. 161; p. 555.
Grimm, Gustav H., Rutland, Vt. Heater for evaporators. No. 962,830; June 28; Sp. p. 5467; Gaz. vol. 155; p. 955.
Grimm, John, Brooklyn, N. Y. Clothes-line support. No. 956,079; Apr. 26; Sp. p. 5181; Gaz. vol. 153; p. 913.

Alphabetical list of patentees—Continued.

Grimm, John J., New York, N. Y. Device for giving horses pills. No. 977,004; Nov. 29; Sp. p. 6479; Gaz. vol. 160; p. 1105.
Grimm, Paul H., assignor to The Sulphur Dioxide Co., Glen Cove, N. Y. Sulfur-burner. No. 957,418; May 10; Sp. p. 1989; Gaz. vol. 154; p. 343.
Grimm, William. (See Elwell and Grimm.)
Grimm, William. (See Elwell, Grimm, and Drexler.)
Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien. (See Jahnz, Erwin, assignor.)
Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien, Braunschweig. (See Jahnz, Erwin, assignor.)
Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien, Braunschweig. (See Naumann, Friedrich, assignor.)
Grimmer, William T., Vineyard, Ark. Plow. No. 945,937; Jan. 11; Sp. p. 2077; Gaz. vol. 150; p. 345.
Grimsdale, William H., Twickenham, England. Apparatus for producing music-sheets for mechanical piano-players, &c. No. 970,492; Sept. 20; Sp. p. 2873; Gaz. vol. 158; p. 502.
Grimsley, Wivel G., Cincinnati, Ohio. Cattle-releasing device. No. 964,772; July 19; Sp. p. 3895; Gaz. vol. 156; p. 647.
Grimwood, Oscar, Owensville, Ind. Street-sweeper. No. 949,069; Feb. 15; Sp. p. 2720; Gaz. vol. 151; p. 483.
Grinden Art Metal Company. (See Nellis, Charles E., assignor.)
Grindle, William W. (See Sweeny and Grindle.)
Grindrod, Albert B. (See Hutchinson and Grindrod.)
Grine, Harry A., assignor of one-half to F. C. Nelles, Los Angeles, Cal. Making fixed gas from liquid-hydrocarbon fuels. No. 952,989; Mar. 22; Sp. p. 5157; Gaz. vol. 152; p. 926.
Griner, Alvah A., Chicago, Ill. Stair structure. No. 973,109; Oct. 18; Sp. p. 3520; Gaz. vol. 159; p. 608.
Griner, Fredrick C., Watertown, S. D. Adjustable feed-trough. No. 962,635; June 28; Sp. p. 5070; Gaz. vol. 155; p. 886.
Grinestaff, John M. (See Humble, Terry L., assignor.)
Grings, Casper H., Dubuque, assignor to The Waterloo Saddlery Co., Waterloo, Iowa. Machine for manufacturing harness-pads. No. 959,519; May 31; Sp. p. 6705; Gaz. vol. 154; p. 1141.
Grip Nut Company. (See Hibbard, Edward R., assignor.)
Griscom, Alfred C., New York, N. Y. Automatic switch mechanism. No. 953,028; Mar. 29; Sp. p. 5254; Gaz. vol. 152; p. 969.
Grisdale, George W., Jr., Trenton, N. J. Watch-stem movement. No. 960,166; May 31; Sp. p. 8091; Gaz. vol. 154; p. 1361.
Griseri, Lorenzo, New York, N. Y. Automatic piano. No. 961,122; June 14; Sp. p. 1785; Gaz. vol. 155; p. 323.
Grison, Julius C., Chicago, Ill. Shoe-stretcher. No. 946,124; Jan. 11; Sp. p. 2448; Gaz. vol. 150; p. 408.
Grissom, Abraham J., Yeager, Okla. Automatic weighing-cabinet. No. 976,069; Nov. 15; Sp. p. 4323; Gaz. vol. 160; p. 734.
Grissom, Joseph, Birmingham, Ala. Flue-base. No. 973,777; Oct. 25; Sp. p. 4963; Gaz. vol. 159; p. 863.
Griswold, George M., and H. C. Beagley, Kingman, Kans. Bonding and tie plate for building-blocks. No. 977,794; Dec. 6; Sp. p. 821; Gaz. vol. 161; p. 128.
Griswold, Glen G., Madison, Ohio. Silo. No. 970,041; Sept. 13; Sp. p. 1943; Gaz. vol. 158; p. 330.
Griswold, Harrison, New York, N. Y. Vapor-lamp burner. No. 960,167; May 31; Sp. p. 8095; Gaz. vol. 154; p. 1361.
Griswold, Harrison, New York, N. Y. Vapor-lamp burner. No. 960,168; May 31; Sp. p. 8097; Gaz. vol. 154; p. 1362.
Griswold, Henry S., Phoenix, Ariz. Tire-healing compound. No. 974,134; Nov. 1; Sp. p. 56; Gaz. vol. 160; p. 12.
Griswold, Howard L., and T. Kerin, Oakland, Cal. Trolley-wire crossing. No. 953,996; Apr. 5; Sp. p. 624; Gaz. vol. 153; p. 111.
Griswold, Howard L., and T. Kerin, Oakland, Cal. Trolley-wire splicer. No. 963,288; July 5; Sp. p. 660; Gaz. vol. 156; p. 92.
Griswold Manufacturing Company. (See Griswold and Briegel, assignors.)
Griswold, Milton O., and T. Briegel, assignors to Griswold Manufacturing Company, Rock Island, Ill. Dust-collector. No. 978,739; Dec. 13; Sp. p. 2866; Gaz. vol. 161; p. 485.
Griswold, Perley A. (See Stevenson, John W., assignor.)
Griswold, Robert, Livingston, Wis. Seed-sowing attachment for cultivators. No. 964,243; July 12; Sp. p. 2644; Gaz. vol. 156; p. 435.
Griswold, Robert, Denver, Colo. Fly-trap. No. 969,363; Sept. 6; Sp. p. 452; Gaz. vol. 158; p. 73.
Griswold, Roy A., and J. Zang, Seattle, Wash. Elevator signaling apparatus. No. 968,466; Aug. 23; Sp. p. 5585; Gaz. vol. 157; p. 963.
Grizzell, Emory C., Claflin, Kans. Traction-gas-engine gearing. No. 970,493; Sept. 20; Sp. p. 2876; Gaz. vol. 158; p. 502.
Grobon, César. (See Garnier (alias Girrane) and Grobon.)
Grodhaus, George W., Fruitvale, Cal. Sash-fastener. No. 950,324; Feb. 22; Sp. p. 5390; Gaz. vol. 151; p. 946.
Grodin, M. (See Jachimovicz, Szymon, assignor.)
Groebli, Joseph A., assignor to The Kursheedt Manufacturing Company, New York, N. Y. Decorated fabric. No. 947,814; Feb. 1; Sp. p. 62; Gaz. vol. 151; p. 14.
Groebli, Joseph A., assignor to The Kursheedt Manufacturing Company, New York, N. Y. Decorated fabric. No. 948,050; Feb. 1; Sp. p. 567; Gaz. vol. 151; p. 91.
Groene, William F. (See Le Blond and Groene.)
Groene, William F., Cincinnati, Ohio, assignor to R. K. Le Blond Machine Tool Company. Combined oil-bush and friction device. No. 959,520; May 31; Sp. p. 6706; Gaz. vol. 154; p. 1141.
Groff, Floyd B., St. Johnsville, N. Y. Vacuum automatic milking-machine. No. 967,513; Aug. 16; Sp. p. 3593; Gaz. vol. 157; p. 617.
Groff, Floyd B., St. Johnsville, N. Y. Teat-cup. No. 973,036; Oct. 18; Sp. p. 3375; Gaz. vol. 159; p. 584.
Groff, Frederick F., Lancaster, Pa. Panorama attachment for cameras. No. 946,800; Jan. 18; Sp. p. 4013; Gaz. vol. 150; p. 665.
Groff, Frederick F., Lancaster, Pa. Wagon-body. No. 959,855; May 31; Sp. p. 7406; Gaz. vol. 154; p. 1255.
Groff, Howard M., Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Ratchet mechanism for watch-movements. No. 971,500; Sept. 27; Sp. p. 4955; Gaz. vol. 158; p. 867.
Grogan, James, Prescott, Ariz. Smelting-furnace. No. 957,554; May 10; Sp. p. 2257; Gaz. vol. 154; p. 391.
Gröger, Hugo, Vienna, Austria-Hungary. Reinforced-concrete sleeper. No. 957,328; May 10; Sp. p. 1802; Gaz. vol. 154; p. 314.
Groh, Harry H., assignor of one-half to J. R. Kline, Monocacy, Pa. Union check-valve. No. 967,514; Aug. 16; Sp. p. 3595; Gaz. vol. 157; p. 617.
Grohmann, Carl L., assignor to Pratt & Whitney Company, Hartford, Conn. Clutch mechanism. No. 948,695; Feb. 8; Sp. p. 1938; Gaz. vol. 151; p. 333.
Grohmann, Carl L., assignor to Pratt & Whitney Company, Hartford, Conn. Attachment for milling-machines. No. 968,047; Aug. 23; Sp. p. 4688; Gaz. vol. 157; p. 819.
Grohmann, Carl L., assignor to Pratt & Whitney Company, Hartford, Conn. Milling-machine. No. 971,885; Oct. 4; Sp. p. 793; Gaz. vol. 159; p. 138.
Grohs, Anton, East Pittsburg, Pa. Danger-signal apparatus for mines, &c. No. 977,947; Dec. 6; Sp. p. 1135; Gaz. vol. 161; p. 182.
Grohs, John P., Los Angeles, Cal. Apparatus for making conduits and tunnels. No. 974,960; Nov. 8; Sp. p. 2015; Gaz. vol. 160; p. 330.
Grommë, John J., assignor to The Hocking Valley Manufacturing Company, Lancaster, Ohio. Knife-adjusting means for feed-cutters. No. 958,743; May 24; Sp. p. 5054; Gaz. vol. 154; p. 854.
Gronberg, John G. (See Thoits and Gronberg.) (Reissue.)
Gröndal, Gustaf, Djursholm, Sweden, assignor to American Grondal Kjellin Company, New York, N. Y. Apparatus for forming ore blocks for the briqueting-furnace. No. 968,467; Aug. 23; Sp. p. 5588; Gaz. vol. 157; p. 964.
Grondal Kjellin Company, The. (See Härdén, Johannes, assignor.)
Gronde, Louis J., assignor of one-half to P. J. Siebold, Chicago, Ill. Adjustable bed. No. 951,274; Mar. 8; Sp. p. 1641; Gaz. vol. 152; p. 292.
Gronke, William, and W. T. Rouse, Canora, Saskatchewan, Canada. Railway-spike. No. 977,795; Dec. 6; Sp. p. 823; Gaz. vol. 161; p. 128.
Grönwall, Eugen A. A., A. R. Lindblad, and O. Stålhane, Ludvika, Sweden. Electric smelting-furnace. No. 953,029; Mar. 29; Sp. p. 5258; Gaz. vol. 152; p. 969.
Grönwall, Eugen A. A., A. R. Lindblad, and O. Stålhane, Ludvika, Sweden. Transformer-furnace. No. 953,030; Mar. 29; Sp. p. 5260; Gaz. vol. 152; p. 969.
Groom, Amos E., Pittsburg, D. S. McFall, Avalon, and W. J. Noah, Ben Avon, Pa. Sealing-tool. No. 975,857; Nov. 15; Sp. p. 3924; Gaz. vol. 160; p. 662.
Grooms, Elias L., Gulfport, Miss. Valve. No. 976,070; Nov. 15; Sp. p. 4327; Gaz. vol. 160; p. 734.
Grooms, George W., Ottumwa, Iowa. Wheel-hub. No. 949,928; Feb. 22; Sp. p. 4528; Gaz. vol. 151; p. 808.
Grootenhuis, Lewis T., Bigtimber, Mont. Revolving self-cleaning screen. No. 969,364; Sept. 6; Sp. p. 455; Gaz. vol. 158; p. 74.
Groover, William E., Atlanta, Ga. Running-gear. No. 953,689; Apr. 5; Sp. p. 20; Gaz. vol. 153; p. 6.
Gropper, Samuel, Brooklyn, N. Y. Top. No. 951,186; Mar. 8; Sp. p. 1460; Gaz. vol. 152; p. 264.
Gros, Charles M. D., Klotzville, La. Beer-faucet. No. 969,053; Aug. 30; Sp. p. 6831; Gaz. vol. 157; p. 1190.
Gros Claude, Frederic W. (See Baker and Gros Claude.)
Gros, Hermann C., Leipzig-Leutzsch, Germany. Cutting-die. No. 967,871; Aug. 16; Sp. p. 4303; Gaz. vol. 157; p. 736.
Gros, Oscar, Leipzig, Germany. Preparation impermeable for Roentgen rays. No. 970,215; Sept. 13; Sp. p. 2317; Gaz. vol. 158; p. 389.
Grose, Toward S., and J. W. Hawkins, Philadelphia, Pa. Music-leaf turner. No. 963,545; July 5; Sp. p. 1167; Gaz. vol. 156; p. 178.

Groshon, John A., New York, N. Y., assignor of one-half to E. J. Métérié, East Orange, N. J. Vacuum-pan apparatus. No. 963,759; July 12; Sp. p. 1617; Gaz. vol. 156; p. 272.

Grosjean, C. E. (See Kuhlmann, Frederick J. P., assignor.)

Gross, August, Corona, assignor to The Manhattan Brass Company, New York, N. Y. Metal roller. No. 976,171; Nov. 22; Sp. p. 4601; Gaz. vol. 160; p. 791.

Gross, Charles G., Omaha, Nebr. Hand-truck. No. 974,135; Nov. 1; Sp. p. 56; Gaz. vol. 160; p. 12.

Gross, Edward H., Stamford, Conn. Foldable hand snow-plow. No. 956,896; May 3; Sp. p. 861; Gaz. vol. 154; p. 137.

Gross, Elmer S. (See Gross, George H. and E. S.)

Gross, Elwood and W. E., and W. Felter, West Pittston, Pa. Pneumatic cleaner. No. 976,566; Nov. 22; Sp. p. 5499; Gaz. vol. 160; p. 929.

Gross, George H., Harrisburg, Pa. Rotary engine. No. 968,653; Aug. 30; Sp. p. 6007; Gaz. vol. 157; p. 1053.

Gross, George H. and E. S., Harrisburg, Pa. Socket and drifting-key for tang-driven tools. No. 975,522; Nov. 15; Sp. p. 3223; Gaz. vol. 160; p. 549.

Gross, Harry E., Knoxville, assignor of one-half to W. H. Arras, Pittsburg, Pa. Threading-machine. No. 979,152; Dec. 20; Sp. p. 3784; Gaz. vol. 161; p. 655.

Gross, John F., Canton, Ohio. Axle-lubricator. No. 968,149; Aug. 23; Sp. p. 4927; Gaz. vol. 157; p. 854.

Gross, Joseph, Chicago, Ill. Machine for pressing clothes. No. 951,909; Mar. 15; Sp. p. 2958; Gaz. vol. 152; p. 536.

Gross, Joseph, Chicago, Ill. Corn-planter. No. 973,499; Oct. 25; Sp. p. 4379; Gaz. vol. 159; p. 766.

Gross, William E. (See Gross and Felter.)

Grosser, Paul, Markersdorf, Germany. Web-holder device for straight-knitting machines. No. 967,760; Aug. 16; Sp. p. 4083; Gaz. vol. 157; p. 699.

Grossman, Simon, Pittsburg, Pa. Traveling case and bag. No. 948,170; Feb. 1; Sp. p. 794; Gaz. vol. 151; p. 132.

Grossman, Simon, Pittsburg, Pa. Mechanism for applying corner-pieces to suit-cases and bags. No. 969,471; Sept. 6; Sp. p. 676; Gaz. vol. 158; p. 107.

Grossman, Simon, Pittsburg, Pa., assignor to The R. Neumann Hardware Co., Newark, N. J. Leather-trimming machine. No. 954,955; Apr. 12; Sp. p. 2757; Gaz. vol. 153; p. 467.

Grossmann, Friedrich, Königswinter, assignor to H. Schmits, Herne, Germany. Refractory substance. No. 951,113; Mar. 8; Sp. p. 1317; Gaz. vol. 152; p. 241.

Grosvenor, William M. (See May and Grosvenor.)

Grote, Ludwig. (See Vivian, Davies, and Grote.)

Grotenhuis, William J., Elkhart, Ind., assignor to Sanitary Steel Couch Company, Chicago, Ill. Bed or couch. No. 973,778; Oct. 25; Sp. p. 4963; Gaz. vol. 159; p. 863.

Grott, Thomas J., Richmond Hill, N. Y. Carbureter. No. 951,002; Mar. 1; Sp. p. 1114; Gaz. vol. 152; p. 180.

Grounds, George H., *et al.* (See MacLachlan, John C., assignor.)

Grout, Frank L. (See Sprague, Frederick H., assignor.)

Grove, August W., Chicago, Ill. Fly-frightener. No. 969,857; Sept. 13; Sp. p. 1552; Gaz. vol. 158; p. 266.

Grove, Clyde, Warren, Ohio. Artificial bait. No. 970,216; Sept. 13; Sp. p. 2317; Gaz. vol. 158; p. 389.

Grove, George H., Harrisburg, Pa. Plotter. No. 970,918; Sept. 20; Sp. p. 3803; Gaz. vol. 158; p. 649.

Grove, Jacob R., Philipsburg, Pa. Gage-pin for tympans of printing-presses. No. 960,312; June 7; Sp. p. 144; Gaz. vol. 155; p. 27.

Grover, Albert D., Malden, Mass. Coin-operated delivering and fraud-preventing mechanism for vending-machines. No. 969,272; Sept. 6; Sp. p. 257; Gaz. vol. 158; p. 42.

Grover, Frederick, assignor to The Forgrove Machinery Company, Limited, Leeds, England. Wrapping-machine. No. 973,863; Oct. 25; Sp. p. 5133; Gaz. vol. 159; p. 892.

Grover, Frederick, assignor to The Forgrove Machinery Company Limited, Leeds, England. Machine for wrapping and affixing labels around rectangular tablets. No. 976,567; Nov. 22; Sp. p. 5500; Gaz. vol. 160; p. 929.

Grover, Ronello A., Andover, Me. Skewer-making machine. No. 977,948; Dec. 6; Sp. p. 1137; Gaz. vol. 161; p. 183.

Grover, Victor H., Spokane, Wash. Reel. No. 964,420; July 12; Sp. p. 2995; Gaz. vol. 156; p. 494.

Grubb, Howard, Rathmines, Dublin, Ireland. Apparatus for sighting objects from protected positions. No. 978,368; Dec. 13; Sp. p. 2050; Gaz. vol. 161; p. 358.

Grube, Robert, Egg Harbor City, N. J. Attachment for running-gears of vehicles. No. 966,327; Aug. 2; Sp. p. 1004; Gaz. vol. 157; p. 162.

Gruber, Archibald B., Portland, Oreg. Attachment for music-stands. No. 969,365; Sept. 6; Sp. p. 456; Gaz. vol. 158; p. 74.

Gruber, Joseph, Tampa, Fla. Stove. No. 973,650; Oct. 25; Sp. p. 4705; Gaz. vol. 159; p. 818.

Gruber, Joseph, Ybor City, assignor of one-half to M. Crocowaner, Tampa, Fla. Metallic shingle. No. 954,796; Apr. 12; Sp. p. 2385; Gaz. vol. 153; p. 412.

Gruender, Joseph J., St. Louis, Mo. Extension-table. No. 949,119; Feb. 15; Sp. p. 2827; Gaz. vol. 151; p. 500.

Gruenfeldt, Emil, assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Device for supporting shaft-hangers. No. 949,229; Feb. 15; Sp. p. 3030; Gaz. vol. 151; p. 537.

Gruenfeldt, Emil, assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Fastening device for vehicle-body structures. No. 958,917; May 24; Sp. p. 5467; Gaz. vol. 154; p. 916.

Gruenfeldt, Emil, assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Controller for electric motors. No. 960,896; June 7; Sp. p. 1322; Gaz. vol. 155; p. 222.

Gruenfeldt, Emil, assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Running-gear construction. No. 960,897; June 7; Sp. p. 1324; Gaz. vol. 155; p. 222.

Gruettefien, Wilhelm, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing aminoacetylpyrocatechin. No. 970,217; Sept. 13; Sp. p. 2318; Gaz. vol. 158; p. 390.

Grummel, Wilhelm, Behrenbostel, near Hanover, Germany. Separator. No. 964,244; July 12; Sp. p. 2646; Gaz. vol. 156; p. 435.

Grunbaum Brüder, *et al.* (See Sprinzel, Hermann, assignor.)

Grunberg, Oskar. (See Boeckel, Grunberg, Korwin-Krukovsky, and Luxembourg.)

Grundmann, Albert. (See Schmidt and Grundmann.)

Grundy, Rothwell R. (See Brazier and Watson, assignors.)

Grunewald, Samuel, Van Wert, Ohio. Wheel-tire. No. 971,267; Sept. 27; Sp. p. 4531; Gaz. vol. 158; p. 792.

Grunwald, Carl, Bredeney, Germany. Apparatus for producing wheels in divided metallic molds. No. 958,635; May 17; Sp. p. 4822; Gaz. vol. 154; p. 792.

Grunwaldt, Albert W., Abrams, Wis. Grain-growing apparatus. No. 946,033; Jan. 11; Sp. p. 2271; Gaz. vol. 150; p. 378.

Gruschow, Frank, Chicago, Ill. Faucet. No. 974,878; Nov. 8; Sp. p. 1811; Gaz. vol. 160; p. 301.

Gruss, Lucien R. and R. L., assignors to Auto-Compressed-Air-Wheel Company, Chico, Cal. Cushion vehicle-wheel. No. 967,515; Aug. 16; Sp. p. 3596; Gaz. vol. 157; p. 617.

Gruss, Raymond L. (See Gruss, Lucien R. and R. L.)

Grüter, Reinhold, and H. Pohl, assignors to Chemische Werke vorm. Dr. Heinrich Byk, Charlottenburg, Germany. Stable mixture for producing hydrogen peroxid. No. 975,129; Nov. 8; Sp. p. 2389; Gaz. vol. 160; p. 387.

Grüter, Reinhold, and H. Pohl, assignors to Chemische Werke vorm. Dr. Heinrich Byk, Charlottenburg, Germany. Stable mixture for producing hydrogen peroxid. No. 975,353; Nov. 8; Sp. p. 2867; Gaz. vol. 160; p. 463.

Grüter, Reinhold, and H. Pohl, assignors to Chemische Werke vorm. Dr. Heinrich Byk, Charlottenburg, Germany. Stable mixture for producing hydrogen peroxid. No. 975,354; Nov. 8; Sp. p. 2868; Gaz. vol. 160; p. 463.

Grüttefien, Wilhelm, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Isobutyl ester of para-amino-benzoic acid. No. 958,110; May 17; Sp. p. 3629; Gaz. vol. 154; p. 612.

Grüttefien, Wilhelm, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Aminoacidylpyrocatechin and making same. No. 970,042; Sept. 13; Sp. p. 1945; Gaz. vol. 158; p. 330.

Gstalder, Paul A., assignor of one-half to C. P. Burke, Pittsburg, Pa. Valve. No. 951,392; Mar. 8; Sp. p. 1901; Gaz. vol. 152; p. 331.

Guadagni, Giuseppe, Pavia, Italy. Apparatus for the manufacture of artificial silk. No. 977,863; Dec. 6; Sp. p. 963; Gaz. vol. 161; p. 152.

Guadagni, Giuseppe, Pavia, Italy. Manufacture of artificial silk. No. 978,878; Dec. 20; Sp. p. 3128; Gaz. vol. 161; p. 555.

Guarantee Trust & Safe Deposit Co. *et al.*, executors. (See Schutte, Louis.)

Guastavino, Rafael, New York, N. Y. Masonry structure. No. 947,177; Jan. 18; Sp. p. 4783; Gaz. vol. 150; p. 788.

Guay, Emile J. (See Berry and Guay.)

Gubbins, John. (See Settergren, Bernhard, assignor.)

Gubrud, Adolph P., Hudson, S. D. Corn-planter. No. 966,908; Aug. 9; Sp. p. 2328; Gaz. vol. 157; p. 382.

Guéniffet, Julien, A. Benoit, and J. Nicault, Paris, France. Machine for making and fitting mouthpieces to cigarette tubes or cases. No. 953,417; Mar. 29; Sp. p. 6114; Gaz. vol. 152; p. 1098.

Guenther, Emil. (See Tiedemann and Clarke, assignors.)

Guenther, Hermann M., Centralia, Wash. Ventilating-oversock for boots and shoes. No. 945,036; Jan. 4; Sp. p. 59; Gaz. vol. 150; p. 11.

Guenther, Jacob J. (See Tiedemann and Clarke, assignors.)

Guenther, Rudolph R., Jr., South Bethlehem, Pa. Signaling device. No. 949,703; Feb. 15; Sp. p. 3996; Gaz. vol. 151; p. 695.

Guérard, Henri E. A., Graville Ste. Honorine, France. Floating and luminous line-carrying rocket. No. 947,904; Feb. 1; Sp. p. 267; Gaz. vol. 151; p. 44.

Alphabetical list of patentees—Continued.

Guernsey, Charles C., Derry, N. H., assignor of one-half to F. O. Libbey, Lawrence, Mass. Monkey-wrench. No. 978,151; Dec. 13; Sp. p. 1593; Gaz. vol. 161; p. 283.
Guertin, Alfred E. (See Bourdreau, Peter, assignor.)
Guest, Isaac D., Telles, N. Mex. Pruning implement. No. 960,540; June 7; Sp. p. 623; Gaz. vol. 155; p. 100.
Guetschoff, Herman C., Fraser, Mich. Account-register. No. 953,608; Mar. 29; Sp. p. 6521; Gaz. vol. 152; p. 1165.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 972,365; Oct. 11; Sp. p. 1844; Gaz. vol. 159; p. 323.
Guffin, John W., Duke, Okla. Animal-poke. No. 962,507; June 28; Sp. p. 4788; Gaz. vol. 155; p. 843.
Guggenheim, S. D. (See Benjamin and Gilbert, assignors.)
Gugler, Julius H., Milwaukee, Wis. Electric-battery cell. No. 979,153; Dec. 20; Sp. p. 3786; Gaz. vol. 161; p. 655.
Gugler, Julius H., Milwaukee, Wis. Combined primary and secondary battery system. No. 979,154; Dec. 20; Sp. p. 3788; Gaz. vol. 161; p. 656.
Gugler, Julius H., Milwaukee, Wis. Combined primary and secondary battery system. No. 979,155; Dec. 20; Sp. p. 3789; Gaz. vol. 161; p. 656.
Guhl, Heinrich A. H., Hamburg, Germany. Machine for sharpening knives. No. 977,624; Dec. 6; Sp. p. 470; Gaz. vol. 161; p. 71.
Guiberson, W. R., *et al.* (See Longtine, Robert V., assignor.)
Guiguet, Léon, assignor to La Société pour l'Exploitation du Caoutchouc au Congo, Lyon-Villeurbanne, France. Apparatus for extracting rubber. No. 958,918; May 24; Sp. p. 5468; Gaz. vol. 154; p. 916.
Guilder, Walter C., assignor to A. L. Garford, Elyria, Ohio. Frictional power-transmission apparatus. No. 966,012; Aug. 2; Sp. p. 356; Gaz. vol. 157; p. 57.
Guillard, Eugene J., New York, N. Y. Hat-holder. No. 957,770; May 10; Sp. p. 2691; Gaz. vol. 154; p. 463.
Guillaume, Emile, Paris, France. Baffle-plate for column-stills. No. 960,223; May 31; Sp. p. 8206; Gaz. vol. 154; p. 1381.
Guillo, Harry P., Revere, Mass. Chart-box and course-indicator. No. 964,773; July 19; Sp. p. 3896; Gaz. vol. 156; p. 647.
Guillo, Harry P., Revere, Mass. Gripper mechanism for cylinder-presses. No. 979,845; Dec. 27; Sp. p. 5267; Gaz. vol. 161; p. 912.
Guion, Richard L., and B. C. Johnson, assignors to American Thermostat Company, Elmira, N. Y. Automatic controlling-switch for electric motors. No. 953,006; Mar. 22; Sp. p. 5202; Gaz. vol. 152; p. 933.
Gulbransen, Axel G., assignor to Gulbransen, Dickinson Company, Chicago, Ill. Pedal mechanism for pneumatically-operated pianos. No. 972,182; Oct. 11; Sp. p. 1463; Gaz. vol. 159; p. 261.
Gulbransen, Dickinson Company. (See Gulbransen, Axel G., assignor.)
Gulick, Edward J., assignor to The Simplex Motor Car Company, Mishawaka, Ind. Carbureter. No. 971,038; Sept. 27; Sp. p. 4049; Gaz. vol. 158; p. 717.
Gulick, Eugene. (See McClellan, James B., assignor.)
Gullickson, Charles M., assignor of one-sixth to A. Kueny, four-sixths to J. W. Skinner and F. T. Terry, and one-sixth to J. W. Mudroch, Milwaukee, Wis. Tobacco-spearing machine. No. 945,717; Jan. 4; Sp. p. 1518; Gaz. vol. 150; p. 237.
Gullong, Jacob, Holyoke, Mass. Oil-can. No. 960,898; June 7; Sp. p. 1325; Gaz. vol. 155; p. 222.
Gumb, John. (See Kerkow, Gustav C., assignor.)
Gumbel, George H., Brooklyn, N. Y. Non-refillable bottle. No. 948,420; Feb. 8; Sp. p. 1347; Gaz. vol. 151; p. 241.
Gummo, John H., Waverly, Kans. Dental impression-cup. No. 975,033; Nov. 8; Sp. p. 2176; Gaz. vol. 160; p. 354.
Gunderson, Gust. (See Durant and Gunderson.)
Güngerich, Paul, assignor to M. Jahr, G. m. b. H., Gera, Germany. Washing and cleaning machine for textile fabrics and the like. No. 971,745; Oct. 4; Sp. p. 497; Gaz. vol. 159; p. 86.
Gunlach, John. (See Jasmer and Gunlach.)
Gunn, Charles H., Marysville, Cal. Shaking-grizzly. No. 975,413; Nov. 15; Sp. p. 2991; Gaz. vol. 160; p. 509.
Gunn, Francis. (See Mitchell and Gunn.)
Gunn, William A., and L. W. Link, Cincinnati, Ohio. Trolley-wheel holder and guide. No. 958,744; May 24; Sp. p. 5055; Gaz. vol. 154; p. 854.
Gunnell, Orville J., *et al.* (See Walter, Harrison B., assignor.)
Gunnell, Orville J. (See Wood, Charles E., assignor.)
Günther, Johann, Haaren, Germany. Violin-case. No. 973,500; Oct. 25; Sp. p. 4386; Gaz. vol. 159; p. 767.
Günther, Oscar, and L. Hesse, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. (Reissue.) No. 13,121; June 14; Sp. p. 3110; Gaz. vol. 155; p. 537.
Günther, Oscar, and L. Hesse, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. (Reissue.) No. 13,122; June 14; Sp. p. 3111; Gaz. vol. 155; p. 537.
Günther, Oscar, L. Hesse, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Black azo dye. No. 945,780; Jan. 11; Sp. p. 1717; Gaz. vol. 150; p. 288.
Günther, Oscar, L. Hesse, Elberfeld, and A. Zart, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 978,580; Dec. 13; Sp. p. 2532; Gaz. vol. 161; p. 432.
Gunthorpe, Dennis M., Battle Creek, and E. T. Wade, Flint, Mich. Switch-controller. No. 966,397; Aug. 2; Sp. p. 1138; Gaz. vol. 157; p. 184.
Gunton, Frank W., London, England, assignor to The Wilcox & White Company, Meriden, Conn. Automatic musical instrument. No. 980,151; Dec. 27; Sp. p. 5933; Gaz. vol. 161; p. 1013.
Guntrum, Carl, New York, N. Y. Air-filter. No. 972,183; Oct. 11; Sp. p. 1467; Gaz. vol. 159; p. 261.
Guntrum, Carl, Brooklyn, N. Y. Air-filter. No. 972,184; Oct. 11; Sp. p. 1468; Gaz. vol. 159; p. 262.
Gurley, Charles K., Salt Lake City, Utah. Baby-jumper No. 957,419; May 10; Sp. p. 1991; Gaz. vol. 154; p. 344.
Gurtler, Helen, Rochester, N. Y. Fringe-making and embroidering device. No. 975,355; Nov. 8; Sp. p. 2869; Gaz. vol. 160; p. 463.
Gury, John B. (See Rubin, Adolph, assignor.)
Gury, John B., St. Louis, Mo. Cloth-notching machine. No. 952,446; Mar. 22; Sp. p. 3999; Gaz. vol. 152; p. 741.
Guss, Florence E., administratrix. (See Guss, Samuel M.)
Guss, Herbert S. (See Guss, Samuel M., assignor.)
Guss, Samuel M., deceased, (F. E. Guss, administratrix,) assignor of one-half to H. S. Guss, Reading, Pa. Valve. No. 964,468; July 12; Sp. p. 3095; Gaz. vol. 156; p. 508.
Gussenhoven, Walter, Chicago, Ill., assignor to Revere Rubber Company, Boston, Mass. Beater for hog-scraping machines. No. 965,293; July 26; Sp. p. 4940; Gaz. vol. 156; p. 852.
Gust, Herman, Joliet, Ill. Means for operating detector-bars for railway-switches. No. 967,369; Aug. 16; Sp. p. 3283; Gaz. vol. 157; p. 568.
Gustafson, Alfred, R. Enszlin, and J. M. Reynolds, San Francisco, Cal. Sandpapering and polishing machine. No. 949,181; Feb. 15; Sp. p. 2943; Gaz. vol. 151; p. 521.
Gustafson, Andrew S., Chattanooga, Tenn. Car-wheel. No. 963,289; July 5; Sp. p. 661; Gaz. vol. 156; p. 93.
Gustafson, August M., Bisbee, Ariz. Ship-table. No. 959,004; May 24; Sp. p. 5625; Gaz. vol. 154; p. 945.
Gustafson, Bernhard, Plainfield, N. J. Pile-elevator for sheet-feeding machines. No. 954,732; Apr. 12; Sp. p. 2243; Gaz. vol. 153; p. 389.
Gustafson, Bernhard, Jamaica Plain, Mass. Registering device. No. 971,991; Oct. 4; Sp. p. 1068; Gaz. vol. 159; p. 179.
Gustafson, Ernest G., and T. Duquette, Grosvenor Dale, Conn., assignors to Draper Company, Hopedale, Mass. Cloth-guiding means for looms. No. 953,826; Apr. 5; Sp. p. 289; Gaz. vol. 153; p. 51.
Gustafson, Victor G., Joliet, Ill. Automatic balancing device. No. 977,523; Dec. 6; Sp. p. 242; Gaz. vol. 161; p. 36.
Gustafson, Wilhelm L., Chicago, Ill. Clothes-drier. No. 945,231; Jan. 4; Sp. p. 467; Gaz. vol. 150; p. 77.
Gustave, George, assignor to Western Electric Company, Chicago, Ill. Reeling-machine. No. 966,827; Aug. 9; Sp. p. 2166; Gaz. vol. 157; p. 356.
Gut, Gottlieb, assignor to Aufzüge- & Räderfabrik Seebach, Seebach, near Zurich, Switzerland. Switch-box. No. 977,187; Nov. 29; Sp. p. 6888; Gaz. vol. 160; p. 1169.
Gutenkunst, William, Milwaukee, Wis. Single-lever lock and trip mechanism for litter-carriers. No. 961,493; June 14; Sp. p. 2595; Gaz. vol. 155; p. 452.
Gutermann, Edward A. (See Chapman and Gutermann.)
Gutermann, Edward A. (See Savage and Gutermann.)
Gutermann, Edward A., assignor to Manning Bowman and Company, Meriden, Conn. Percolator-overflow. No. 945,938; Jan. 11; Sp. p. 2079; Gaz. vol. 150; p. 346.
Gutermann, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Vapor-stove. No. 948,393; Feb. 8; Sp. p. 1294; Gaz. vol. 151; p. 232.
Gutermann, Hans W. (See Swanson, Ludvig G., assignor.)
Gutermuth, Max F., Darmstadt, Germany. Clack or flap valve. No. 949,070; Feb. 15; Sp. p. 2722; Gaz. vol. 151; p. 484.
Gutermuth, Max F., Darmstadt, Germany. Automatically-acting spring flap-valve. No. 978,152; Dec. 13; Sp. p. 1595; Gaz. vol. 161; p. 283.
Guth, Anna, Seattle, Wash. Combined pillow-sham holder and bolster-roll. No. 964,469; July 12; Sp. p. 3096; Gaz. vol. 156; p. 508.
Guth, Frederick A., Waverly, Ohio. Tilting-gate-operating mechanism. No. 954,280; Apr. 5; Sp. p. 1235; Gaz. vol. 153; p. 206.
Guthrie, Asa, Chicago, Ill. Stay-bolt header. No. 960,313; June 7; Sp. p. 146; Gaz. vol. 155; p. 28.
Guthrie, Bayard, Pittsburg, Pa., and J. P. Karch, Plainville, Conn. Electric furnace. No. 979,663; Dec. 27; Sp. p. 4848; Gaz. vol. 161; p. 850.

Guthrie, Charley E. (See Guthrie, Jeremiah P. and C. E.)
Guthrie, Charley E., and M. C. Jones, Okemah, J. P. Guthrie, Guthrie, and J. W. Hunt, Henryetta, Okla.; said Jones and said Hunt assignors to said C. E. Guthrie. Coin-operated key-lock. No. 955,792; Apr. 19; Sp. p. 4529; Gaz. vol. 153; p. 782.
Guthrie, Jeremiah P. (See Guthrie, Jones, Guthrie, and Hunt.)
Guthrie, Jeremiah P. and C. E., Okemah, Okla. Mail-handling apparatus. No. 947,679; Jan. 25; Sp. p. 5943; Gaz. vol. 150; p. 989.
Guthrie, John W., Falls Creek, Pa. Valve mechanism for engines. No. 959,339; May 24; Sp. p. 6320; Gaz. vol. 154; p. 1056.
Guthrie, Nehemiah, and C. L. Johnson, Dallas, Tex. Tire for vehicle-wheels. No. 978,019; Dec. 6; Sp. p. 1289; Gaz. vol. 161; p. 206.
Gutman, Simon, New York, N. Y. Belt. No. 974,262; Nov. 1; Sp. p. 411; Gaz. vol. 160; p. 60.
Gutmann, John A., Wilkes-Barre, Pa. Emergency street-car brake. No. 977,089; Nov. 29; Sp. p. 6649; Gaz. vol. 160; p. 1133.
Gutsch, Carl R. O., *et al.* (See Resch, Hermann, assignor.)
Guttinger, Charles G., New York, N. Y. Strainer. No. 967,370; Aug. 16; Sp. p. 3284; Gaz. vol. 157; p. 569.
Güttler, Max R., Weifa, near Dresden, Germany. Motor. No. 947,061; Jan. 18; Sp. p. 4565; Gaz. vol. 150; p. 752.
Guttman, Harry J., Chicago, Ill. Table. No. 960,314; June 7; Sp. p. 149; Gaz. vol. 155; p. 28.
Guttman, Harry J., assignor to Edward Katzinger Co., Chicago, Ill. Dough-cutter. No. 946,898; Jan. 18; Sp. p. 4255; Gaz. vol. 150; p. 699.
Guttmann, Walter, Mülheim-on-the-Ruhr, Germany. Plaster. No. 977,730; Dec. 6; Sp. p. 686; Gaz. vol. 161; p. 107.
Guy, Albert E., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Centrifugal pump. No. 962,023; June 21; Sp. p. 3706; Gaz. vol. 155; p. 651.
Guy, Albert E., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Centrifugal pump. No. 972,366; Oct. 11; Sp. p. 1845; Gaz. vol. 159; p. 324.
Guy, Albert E., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Rotor for high-frequency alternating-current machines. No. 973,037; Oct. 18; Sp. p. 3376; Gaz. vol. 159; p. 584.
Guy-Bernard, Georges E. M., Fossé, France. Threshing-machine. No. 964,966; July 19; Sp. p. 4280; Gaz. vol. 156; p. 714.
Guy, Frank, Springfield, Ill. Acetylene-lamp. No. 974,054; Oct. 25; Sp. p. 5528; Gaz. vol. 159; p. 959.
Guy, Ross C., Chicago, Ill. Knife, fork, and spoon holder. No. 975,858; Nov. 15; Sp. p. 3925; Gaz. vol. 160; p. 662.
Guyaux, Fred. (See Guyaux, Peter J., Sr., P. J., Jr., and F.)
Guyaux, Peter J., Sr., P. J., Jr., and F., Point Marion, Pa. Method of and apparatus for making wire-glass. No. 954,956; Apr. 12; Sp. p. 2760; Gaz. vol. 153; p. 467.
Guyer, Clinton, assignor of one-half to W. C. Crawford, Muncy, Pa. Pipe-coupling. No. 960,899; June 7; Sp. p. 1326; Gaz. vol. 155; p. 223.
Guynes, John W., Calvert, Tex. Hay-press. No. 951,988; Mar. 15; Sp. p. 3108; Gaz. vol. 152; p. 561.
Guyton, William, Avalon, assignor of one-half to R. Stinson, Pittsburg, Pa. Flushing apparatus. No. 976,870; Nov. 29; Sp. p. 6135; Gaz. vol. 160; p. 1057.
Guzowski, Joseph, Chicago, Ill. Cutting apparatus. No. 972,852; Oct. 18; Sp. p. 2919; Gaz. vol. 159; p. 519.
Gwaltney, John L., Dothan, Ala. Hand-planter. No. 967,371; Aug. 16; Sp. p. 3285; Gaz. vol. 157; p. 569.
Gwinn, George E., San Antonio, Tex. Surgical instrument. No. 974,879; Nov. 8; Sp. p. 1813; Gaz. vol. 160; p. 301.
Gwinn, George W. (See Mueller and Gwinn.)
Gwinn, William A. (See Hobb and Gwinn.)
Gwóźdź, Bronislaw, Schmargendorf, near Berlin, Germany. Means for regulating the illumination of films in kinematographs. No. 947,490; Jan. 25; Sp. p. 5564; Gaz. vol. 150; p. 925.
Gwynne, Jerome S., Reubens, Idaho. Saw-filing device. No. 967,761; Aug. 16; Sp. p. 4087; Gaz. vol. 157; p. 700.
Gyer, William, Fullerton, Pa. Dust-collector. No. 962,757; June 28; Sp. p. 5324; Gaz. vol. 155; p. 930.
Gyrex Manufacturing Company. (See Webb and Stickels, assignors.)
H. Krantz Manufacturing Company. (See Krantz, Hubert, assignor.)
H. Lange Wagon Co. (See Lange, Elias, assignor.)
H. Mueller Manufacturing Company. (See Mueller, Henry, assignor.)
H. Mueller Manufacturing Company. (See Mueller, Philip, assignor.)
H. Mueller Manufacturing Company, The. (See Mueller, Henry and P., assignors.)
H. Mueller Manufacturing Company. (See Schuermann, Anton C., assignor.)
H. Mueller Manufacturing Company, The. (See Tucker, Edwin D., assignor.)
H. B. Sherman Manufacturing Company. (See Hart and Dobson, assignors.)
H. D. Smith and Company. (See Ward, William S., assignor.)
H. F. Barrows Co. (See Benjamin, George H., assignor.)
H. F. Brammer Manufacturing Company. (See Edens, John, assignor.)
H. G. Kotten Company. (See Kotten, Herman G., assignor.)
H. J. Keith Company. (See Keith, Herbert J. and S. C., Jr., assignors.)
H. K. Porter Company. (See Hodges, Charles B., assignor.)
H. L. Judd Company. (See Lathrop, Frank L., assignor.)
H. L. Judd Company *et al.* (See McBride, Charles S., assignor.)
H. M. Byllesby & Company. (See Thompson, Warren R., assignor.)
H. O. Wilbur and Sons. (See Wilbur, Lawrence H., assignor.)
H. P. and E. Day. (See Pierson, William D., assignor.)
H. S. Judd Manufacturing Company. (See Judd, Henry S., assignor.)
H. W. Caldwell & Son Company. (See Messier, Auguste L., assignor.)
H. W. Johns-Manville Company. (See Wardell, Henry R., assignor.)
Haag, Anthony, New York, N. Y. Plumbing apparatus for concrete-wall molds. No. 972,618; Oct. 11; Sp. p. 2426; Gaz. vol. 159; p. 413.
Haage, Wilhelm. (See Trainer and Haage.)
Haas, Ernest, Manchester, England. Apparatus for affixing postage-stamps, labels, or the like, and for selling postage-stamps. No. 956,526; May 3; Sp. p. 33; Gaz. vol. 154; p. 9.
Haas, Fred W., assignor of one-third to G. N. Powell, Pittsburg, Pa. Raw-water-freezing apparatus. No. 980,152; Dec. 27; Sp. p. 5935; Gaz. vol. 161; p. 1013.
Haas, Fredolin. (See Haas, Joseph A. and F.)
Haas, Gustave W., Los Angeles, Cal. Attachment for chairs. No. 946,842; Jan. 18; Sp. p. 4110; Gaz. vol. 150; p. 680.
Haas, Gustave W., Los Angeles, Cal. Jury and jury-frame for orthopedic treatment. No. 963,890; July 12; Sp. p. 1932; Gaz. vol. 156; p. 317.
Haas, Hanna, New York, N. Y. Furnace. No. 973,273; Oct. 18; Sp. p. 3891; Gaz. vol. 159; p. 666.
Haas, John W. (See Firth, Joseph, assignor.)
Haas, Joseph, New York, N. Y. Furniture. No. 967,903; Aug. 23; Sp. p. 4367; Gaz. vol. 157; p. 771.
Haas, Joseph A., Pittsburg, and F. Haas, West Apollo, Pa. Window-fixture. No. 970,814; Sept. 20; Sp. p. 3611; Gaz. vol. 158; p. 616.
Haas, Thomas. (See Deats and Haas.)
Haas, William J., St. Paul, Minn. Portable granary. No. 953,827; Apr. 5; Sp. p. 291; Gaz. vol. 153; p. 51.
Haase, A. C. L., *et al.* (See Scott, William H., assignor.)
Haase, Charles L., Jr., Milwaukee, Wis. Gas-igniter. No. 957,951; May 17; Sp. p. 3105; Gaz. vol. 154; p. 554.
Haase, Edward T., *et al.* (See Scott, William H., assignor.)
Haase, Herman T. (See Garraway and Haase.)
Haase, Louis H., *et al.* (See Scott, William H., assignor.)
Haase, William H., *et al.* (See Scott, William H., assignor.)
Habben, Jacob, Montmorenci, Ind. Wire-stretcher. No. 966,828; Aug. 9; Sp. p. 2169; Gaz. vol. 157; p. 357.
Habberley, Albert N., Newton, Mass. Ice-harvester. No. 945,781; Jan. 11; Sp. p. 1718; Gaz. vol. 150; p. 288.
Habein, John, Zion City, Ill. Shade-adjuster. No. 953,418; Mar. 29; Sp. p. 6117; Gaz. vol. 152; p. 1099.
Haben, John A., *et al.* (See Smith, Christian N., assignor.)
Haber, Fritz, and R. Le Rossignol, Karlsruhe, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of ammonia. No. 971,501; Sept. 27; Sp. p. 4957; Gaz. vol. 158; p. 868.
Haberkorn, Theodore H., Fort Wayne, Ind. Internal-combustion engine. No. 973,651; Oct. 25; Sp. p. 4707; Gaz. vol. 159; p. 818.
Haberle, Fred L., Jacksonville, Tex. Handling-machine for baskets. No. 945,521; Jan. 4; Sp. p. 1109; Gaz. vol. 150; p. 171.
Häberle, Michael, Brooklyn, N. Y. Pivoted sliding window. No. 956,527; May 3; Sp. p. 37; Gaz. vol. 154; p. 9.
Habernigg, George F., *et al.* (See Anthony, David S., assignor.)
Habicht, William C., assignor to The Kirk, Habicht Company of Baltimore City, Baltimore, Md. Skylight-lift. No. 959,429; May 24; Sp. p. 6475; Gaz. vol. 154; p. 1085.
Habig, George, Los Angeles, Cal. Electric-lamp-shade holder. No. 964,016; July 12; Sp. p. 2191; Gaz. vol. 156; p. 359.
Hachmann, Frederick, St Paul, Minn. Car-seat. No. 946,125; Jan. 11; Sp. p. 2449; Gaz. vol. 150; p. 408.
Hachmann, Frederick, assignor of nineteen thirty-seconds to G. A. Doran, seven thirty-seconds to F. W. Lapham, and two thirty-seconds to W. H. Springer, St. Paul, Minn. Wrench. No. 959,931; May 31; Sp. p. 7585; Gaz. vol. 154; p. 1281.
Hacker, Clifton A., Fairhaven, Mass. Lamplighter. No. 966,328; Aug. 2; Sp. p. 1006; Gaz. vol. 157; p. 162.

Alphabetical list of patentees—Continued.

Hackett, Benjamin F., and J. J. Owen, Willard, N. Mex. Track-adjusting jack. No. 968,150; Aug. 23; Sp. p. 4928; Gaz. vol. 157; p. 854.
Hackett, Charles H., assignor to W. W. Marsh, Waterloo, Iowa. Centrifugal liquid-separator. No. 951,370; Mar. 8; Sp. p. 1850; Gaz. vol. 152; p. 323.
Hackett, Charles H., and T. W. Morgan, assignors to W. W. Marsh, Waterloo, Iowa. Elastic collar-bearing for centrifugal machines. No. 961,345; June 14; Sp. p. 2284; Gaz. vol. 155; p. 403.
Hackett, Charles H., and T. W. Morgan, assignors to W. W. Marsh, Waterloo, Iowa. Feed device for centrifugal separators. No. 967,372; Aug. 16; Sp. p. 3287; Gaz. vol. 157; p. 569.
Hackett, George E., New York, N. Y. Tool-shank. No. 971,039; Sept. 27; Sp. p. 4052; Gaz. vol. 158; p. 718.
Hackett, George L., Denver, Colo. Ticket-holder. No. 963,760; July 12; Sp. p. 1619; Gaz. vol. 156; p. 273.
Hackett, Lewis, North Yakima, Wash. Last-jack. No. 963,140; July 5; Sp. p. 288; Gaz. vol. 156; p. 40.
Hackley, John H., Cherryvale, Kans. Ash-pan for locomotives. No. 953,137; Mar. 29; Sp. p. 5510; Gaz. vol. 152; p. 1005.
Hackmann, William J., Pittsburg, Pa. Burner. No. 975,859; Nov. 15; Sp. p. 3926; Gaz. vol. 160; p. 662.
Hackney, Leslie S., St. Paul, Minn. Orange and lemon squeezer. No. 968,344; Aug. 23; Sp. p. 5349; Gaz. vol. 157; p. 922.
Hackney, Leslie S., St. Paul, Minn. Lemon-squeezer. No. 968,345; Aug. 23; Sp. p. 5350; Gaz. vol. 157; p. 922.
Hackney, William H., National Soldiers Home, Cal. Gold-saving apparatus. No. 962,636; June 28; Sp. p. 5072; Gaz. vol. 155; p. 886.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on welts. No. 962,138; June 21; Sp. p. 3987; Gaz. vol. 155; p. 692.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stitch separating and indenting tool. No. 962,139; June 21; Sp. p. 3991; Gaz. vol. 155; p. 693.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon welts. No. 963,708; July 5; Sp. p. 1494; Gaz. vol. 156; p. 233.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-sewing machine. No. 963,761; July 12; Sp. p. 1620; Gaz. vol. 156; p. 273.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-trimming machine. No. 968,553; Aug. 30; Sp. p. 5787; Gaz. vol. 157; p. 1019.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-trimming machine. No. 968,554; Aug. 30; Sp. p. 5790; Gaz. vol. 157; p. 1020.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-trimming machine. No. 968,555; Aug. 30; Sp. p. 5794; Gaz. vol. 157; p. 1020.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-trimming machine. No. 968,556; Aug. 30; Sp. p. 5798; Gaz vol. 157; p. 1021.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-reinforcing machine. No. 971,674; Oct. 4; Sp. p. 344; Gaz. vol. 159; p. 60.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Impression or imitation stitch machine. No. 973,038; Oct. 18; Sp. p. 3378; Gaz. vol. 159; p. 585.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated device. No. 977,625; Dec. 6; Sp. p. 471; Gaz. vol. 161; p. 71.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Electric toaster. No. 977,626; Dec. 6; Sp. p. 472; Gaz. vol. 161; p. 71.
Haddock, Worcester, assignor of one-fourth to R. J. Berne and one-half to H. Volz, Cincinnati, Ohio. Apparatus for clearing obstructions from drain and other pipes. No. 977,005; Nov. 29; Sp. p. 6480; Gaz. vol. 160; p. 1105.
Haddon, Leonard F., assignor of one-half to C. A. Richey, Louisville, Nebr. Carrier. No. 959,733; May 31; Sp. p. 7144; Gaz. vol. 154; p. 1212.
Hadfield, Burton L., and H. A. Hall, Wausau, Wis. Current-reducer. No. 958,111; May 17; Sp. p. 3630; Gaz. vol. 154; p. 612.
Hadfield, Robert A., Sheffield, England. Apparatus for making sound metal ingots and other castings. No. 954,183; Apr. 5; Sp. p. 1032; Gaz. vol. 153; p. 175.
Hadfield, Robert A., Sheffield, England. Tramway-point. No. 977,006; Nov. 29; Sp. p. 6483; Gaz. vol. 160; p. 1106.
Hadida, Henry, London, England. Stamp-affixing machine. No. 953,661; Mar. 29; Sp. p. 6628; Gaz. vol. 152; p. 1183.
Hadie, John, Rockford, Ill. Potato-planter. No. 954,860; Apr. 12; Sp. p. 2555; Gaz. vol. 153; p. 435.
Hadjich, George, assignor of one-fourth to C. B. Shaffner, Chicago, Ill. Rubber heel. No. 961,346; June 14; Sp. p. 2285; Gaz. vol. 155; p. 403.
Hadka, Joseph, Chicago, Ill. Wind-shield. No. 975,414; Nov. 15; Sp. p. 2992; Gaz. vol. 160; p. 509.
Hadler, Henry, Moorhead, Iowa. Railway-spike. No. 945,452; Jan. 4; Sp. p. 952; Gaz. vol. 150; p. 150.
Hadley, Artemus N., Indianapolis, Ind. Power transmission. No. 950,044; Feb. 22; Sp. p. 4833; Gaz. vol. 151; p. 850.
Hadley, Artemus N., Indianapolis, Ind. Harvester. No. 967,904; Aug. 23; Sp. p. 4369; Gaz. vol. 157; p. 771.
Hadley, Artemus N., Indianapolis, Ind. Shock-lifter. (Reissue.) No. 13,187; Dec. 27; Sp. p. 6010; Gaz. vol. 161; p. 1023.
Hadley, Asher H., Forestville, N. Y. Hopper for grain-drills. No. 964,245; July 12; Sp. p. 2649; Gaz. vol. 156; p. 436.
Hadley, Benjamin, assignor of three-fourths to T. J. Ford and one-fourth of G. H. Ford, Elmira, N. Y. Saw-setting machine. No. 951,767; Mar. 8; Sp. p. 2645; Gaz. vol. 152; p. 457.
Hadley, Benjamin, and B. Moylan, Elmira, N. Y.; said Hadley assignor to said Moylan. Sharpener for lawn-mowers. No. 950,445; Feb. 22; Sp. p. 5613; Gaz. vol. 151; p. 984.
Hadley, James, Swanlake, Idaho. Hay-loader. No. 979,846; Dec. 27; Sp. p. 5269; Gaz. vol. 161; p. 912.
Hadley, William, *et al.* (See Stowell, Byron F., assignor.)
Hadlock, Clark W., assignor to The Standard Supply and Manufacturing Company, Hutchinson, Kans. Flue-cleaner. No. 947,905; Feb. 1; Sp. p. 268; Gaz. vol. 151; p. 44.
Hadnagy, Peter, Dayton, Ohio. Gearing. No. 960,900; June 7; Sp. p. 1327; Gaz. vol. 155; p. 223.
Hadsel, Alvah D., Wilkes-Barre, Pa. Elevated carrier. No. 945,939; Jan. 11; Sp. p. 2080; Gaz. vol. 150; p. 346.
Haehnle, George. (See Clay, Fred, assignor.)
Haelebjian, Joseph, Bridgeport, Conn. Self-cleaning comb. No. 973,039; Oct. 18; Sp. p. 3380; Gaz. vol. 159; p. 585.
Haennig, Joseph E., Belfort, France. Thermodynamic machine. No. 977,731; Dec. 6; Sp. p. 687; Gaz. vol. 161; p. 107.
Haerry, Rudolph F., Scotia, N. Y. Press. No. 954,625; Apr. 12; Sp. p. 1992; Gaz. vol. 153; p. 351.
Haerst, Pièrre, Chicago, Ill. Dumping hopper-cart. No. 946,430; Jan. 11; Sp. p. 3203; Gaz. vol. 150; p. 516.
Haeske, Charles M., South Bend, Ind. Guard for painted articles. No. 945,161; Jan. 4; Sp. p. 320; Gaz. vol. 150; p. 54.
Haeske, Charles M., South Bend, Ind. False spindle. No. 947,544; Jan. 25; Sp. p. 5676; Gaz. vol. 150; p. 943.
Haeske, Charles M., South Bend, Ind. Dump-wagon. No. 953,783; Apr. 5; Sp. p. 198; Gaz. vol. 153; p. 37.
Haesloop, Christian F. (See Hahan, Adolf, assignor.)
Hafemeister, William C., assignor, by mesne assignments, to The Van Dorn & Dutton Company, Cleveland, Ohio. Portable electric drill. No. 956,849; May 3; Sp. p. 763; Gaz. vol. 154; p. 120.
Hafer, Charlotte M. (See Humma and Hafer.)
Haff, Maximilian M. (See Willson and Haff.)
Haffey, James F. (See Baron and Haffey.)
Haffey, James F., assignor to C. S. Baron, Tiffin, Ohio. Molasses-jug and other hinged-lid receptacle. No. 952,428; Mar. 15; Sp. p. 3951; Gaz. vol. 152; p. 707.
Hafsaas, John A., Gross, Nebr. Seed-corn grader or separator. No. 977,524; Dec. 6; Sp. p. 244; Gaz. vol. 161; p. 36.
Haga, John P., Minneapolis, Minn. Straightening-machine. No. 962,831; June 28; Sp. p. 5469; Gaz. vol. 155; p. 955.
Hagan, Alexander J., assignor of one-half to C. Murray, Represa, Cal. Automatic car-fender. No. 969,753; Sept. 6; Sp. p. 1293; Gaz. vol. 158; p. 207.
Hagan, George J., Pittsburg, Pa. Gas-producer. No. 969,273; Sept. 6; Sp. p. 259; Gaz. vol. 158; p. 42.
Hagan, Ira B., Sr., Lamoine, Me. Measuring instrument. No. 964,246; July 12; Sp. p. 2650; Gaz. vol. 156; p. 436.
Hagar, Franklin W., Nashville, Tenn. Carbureter. No. 952,326; Mar. 15; Sp. p. 3756; Gaz. vol. 152; p. 673.
Hagar, Walter F., Jr. (See Allsop, Sibson, and Hagar.)
Hage, Leonell and W., Hawley, Minn. Cement-block machine. No. 968,048; Aug. 23; Sp. p. 4691; Gaz. vol. 157; p. 820.
Hage, Walter. (See Hage, Leonell and W.)
Hagel, August. (See Hagel, John L. and A.)
Hagel, John L. and A., Dawson, Minn. Spring wagon-bolster. No. 947,815; Feb. 1; Sp. p. 63; Gaz. vol. 151; p. 14.
Hageman, Ira, San Francisco, Cal. Quicksilver apparatus. No. 970,705; Sept. 20; Sp. p. 3356; Gaz. vol. 158; p. 576.
Hagen, Arthur T., and D. M. Cooper, Rochester, N. Y., assignors, by mesne assignments, to American Laundry Machinery Company, Cincinnati, Ohio. Cuff-pressing machine. No. 962,213; June 21; Sp. p. 4135; Gaz. vol. 155; p. 718.

Alphabetical list of patentees—Continued.

Hagen, Arthur T., and D. M. Cooper, Rochester, N. Y., assignors, by mesne assignments, to American Laundry Machinery Company, Cincinnati, Ohio. Dampening-machine. No. 969,688; Sept. 6; Sp. p. 1135; Gaz. vol. 158; p. 183.

Hagen, Erik S., assignor, by mesne assignments, to Globe Vending Company, Chicago, Ill. Coin-actuated mechanism. No. 958,489; May 17; Sp. p. 4542; Gaz. vol. 154; p. 744.

Hagen, Erik S., assignor, by mesne assignments, to Globe Vending Company, Chicago, Ill. Coin-chute. No. 958,490; May 17; Sp. p. 4545; Gaz. vol. 154; p. 745.

Hagen, Erik S., assignor, by mesne assignments, to Globe Vending Company, Chicago, Ill. Centering mechanism for rotary vending-machines. No. 958,491; May 17; Sp. p. 4548; Gaz. vol. 154; p. 745.

Hagen, John, Hopkins, Minn. Pneumatic stacker. No. 975,230; Nov. 8; Sp. p. 2610; Gaz. vol. 160; p. 422.

Hagency, Patrick, Ashtabula Harbor, Ohio. Metallic railway-tie. No. 968,049; Aug. 23; Sp. p. 4693; Gaz. vol. 157; p. 820.

Hagerman, Addison W. (See Hagerman, Lyman S. and A. W.)

Hagerman, Joseph A., Findlay, Ohio. Edge-trimmer. No. 968,654; Aug. 30; Sp. p. 6012; Gaz. vol. 157; p. 1056.

Hagerman, Lyman S. and A. W., Mondamin, Iowa. Windmill-regulator. No. 969,366; Sept. 6; Sp. p. 458; Gaz. vol. 158; p. 74.

Hagerty, John W., Fort Worth, Tex. Door-stop. No. 968,936; Aug. 30; Sp. p. 6607; Gaz. vol. 157; p. 1150.

Hagey, James C., Boston, Mass., assignor of one-half to The Cable Company, Chicago, Ill. Automatic musical instrument. No. 955,869; Apr. 26; Sp. p. 4727; Gaz. vol. 153; p. 839.

Hagg, Virgil B., Los Angeles, Cal. Water-filter. No. 967,905; Aug. 23; Sp. p. 4375; Gaz. vol. 157; p. 771.

Hagman, Henry W., Argusville, N. D. Hame-clip. No. 965,106; July 19; Sp. p. 4556; Gaz. vol. 156; p. 760.

Hagman, Theodor, Syracuse, N. Y. Safety-clutch. No. 964,774; July 19; Sp. p. 3898; Gaz. vol. 156; p. 648.

Hagman, William J., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Slotting-machine. No. 972,367; Oct. 11; Sp. p. 1848; Gaz. vol. 159; p. 324.

Hagman, William J., assignor to Niles-Bement-Pond Company, Philadelphia, Pa. Steam-hammer. No. 972,368; Oct. 11; Sp. p. 1848; Gaz. vol. 159; p. 324.

Hagman, William J., and E. H. Wray, Philadelphia, Pa., assignors to Niles-Bement-Pond Company, Jersey City, N. J. Slotting-machine. No. 964,421; July 12; Sp. p. 2996; Gaz. vol. 156; p. 494.

Hagmann, John G., assignor of one-half to G. M. Heath, La Crosse, Wis. Wheat-heater. No. 945,089; Jan. 4; Sp. p. 176; Gaz. vol. 150; p. 29.

Hagstedt, Anna O., New York, N. Y. Flying-machine, &c. No. 954,733; Apr. 12; Sp. p. 2245; Gaz. vol. 153; p. 390.

Hague, Charles E., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone-exchange system. No. 966,013; Aug. 2; Sp. p. 358; Gaz. vol. 157; p. 58.

Hahan, Adolf, New York, assignor of one-half to C. P. Haesloop, Brooklyn, N. Y. Oil or vehicle for paints, colors, and pigments. No. 946,126; Jan. 11; Sp. p. 2451; Gaz. vol. 150; p. 408.

Hähle, Hermann. (See Seifert and Hähle.)

Hahn, Chester A., Collegeview, Nebr. Automatic gate. No. 968,846; Aug. 30; Sp. p. 6420; Gaz. vol. 157; p. 1119.

Hahn, Emil, Albion, Mich. Clip. No. 964,247; July 12; Sp. p. 2651; Gaz. vol. 156; p. 437.

Hahn, Frank, Doland, S. D. Traction-wheel. No. 960,541; June 7; Sp. p. 624; Gaz. vol. 155; p. 101.

Hahn, George, New York, N. Y. Vegetable-cutter. No. 978,153; Dec. 13; Sp. p. 1598; Gaz. vol. 161; p. 283.

Hahn, John, Los Angeles, Cal. Deep-well pump. No. 976,071; Nov. 15; Sp. p. 4328; Gaz. vol. 160; p. 735.

Hahn, John N., Cleveland, Ohio. Staple. No. 951,393; Mar. 8; Sp. p. 1902; Gaz. vol. 152; p. 331.

Hahn, John N., Cleveland, Ohio, and G. H. Eckhouse, Hillsboro, Ill. Box or package. No. 953,828; Apr. 5; Sp. p. 292; Gaz. vol. 153; p. 52.

Hahn, Konrad, Winkel, near Gifhorn, assignor to Schott & Gen., Jena, Germany. Electrolytic apparatus with liquid anode. No. 959,521; May 31; Sp. p. 6708; Gaz. vol. 154; p. 1141.

Hahn, Martin F., Hamburg, Germany. Making fish sausage. No. 974,660; Nov. 1; Sp. p. 1324; Gaz. vol. 160; p. 205.

Hahn, William, Bridgeport, Conn. Penholder. No. 952,733; Mar. 22; Sp. p. 4636; Gaz. vol. 152; p. 840.

Hahne, William C. (See Gradolph and Hahne.)

Hahnemann, Paul R., assignor to Max Ams Machine Co., Mount Vernon, N. Y. Power-press. No. 972,369; Oct. 11; Sp. p. 1850; Gaz. vol. 159; p. 325.

Haig, James P., and A. H. Porter, Grand Rapids, Mich. Valve. No. 966,198; Aug. 2; Sp. p. 765; Gaz. vol. 157; p. 121.

Haigh, Gilbert R., and J. R. Fortune, assignors to Murphy Iron Works, Detroit, Mich. Furnace. No. 973,652; Oct. 25; Sp. p. 4711; Gaz. vol. 159; p. 819.

Hail, John E., Merkel, Tex. Harvesting-machine. No. 968,655; Aug. 30; Sp. p. 6013; Gaz. vol. 157; p. 1056.

Haile, Luther T., Philadelphia, Pa. Sound-box for talking-machines. No. 963,546; July 5; Sp. p. 1169; Gaz. vol. 156; p. 179.

Hailey, Robert L., assignor to The Lowe Electric Company, New York, N. Y. Electric heating device. No. 959,215; May 24; Sp. p. 6066; Gaz. vol. 154; p. 1014.

Hailstone, C. E., *et al.* (See Mills, Edward N., assignor.)

Hailwood, Ernest A., Morley, near Leeds, England. Apparatus for igniting miners' safety-lamps. No. 946,670; Jan. 18; Sp. p. 3707; Gaz. vol. 150; p. 620.

Hainer, Whitfield, Toronto, Ontario, Canada. Type-writing machine. No. 978,369; Dec. 13; Sp. p. 2054; Gaz. vol. 161; p. 358.

Haines, A. M., administrator. (See Woodbury, George E.)

Haines, Lewis A., Columbus, Ohio. Blading for turbines. No. 977,299; Nov. 29; Sp. p. 7092; Gaz. vol. 160; p. 1206.

Haines, Lewis A., Columbus, Ohio. Blading for turbines. No. 977,300; Nov. 29; Sp. p. 7095; Gaz. vol. 160; p. 1207.

Haines, Mary A., Cleveland, Ohio. Massage apparatus. No. 949,230; Feb. 15; Sp. p. 3031; Gaz. vol. 151; p. 537.

Haines Oil Measuring Pump Company. (See Haines, William B., assignor.)

Haines, Thomas, St. Louis, Mo. Fire-alarm box. No. 961,440; June 14; Sp. p. 2468; Gaz. vol. 155; p. 434.

Haines, Thomas G., Springdale, Wash. Hay-loader. No. 968,656; Aug. 30; Sp. p. 6016; Gaz. vol. 157; p. 1056.

Haines, William B., Sunbury, assignor to Haines Oil Measuring Pump Company, Harrisburg, Pa. Measuring-pump. No. 958,919; May 24; Sp. p. 5470; Gaz. vol. 154; p. 917.

Haines, William B., Sunbury, assignor to Haines Oil Measuring Pump Company, Harrisburg, Pa. Liquid-delivering device. No. 959,216; May 24; Sp. p. 6068; Gaz. vol. 154; p. 1015.

Haines, William E., Cheltenham, England. Carbureter. No. 973,937; Oct. 25; Sp. p. 5288; Gaz. vol. 159; p. 918.

Hainline, Ennis C., Mount Sterling, Ky. Stock-pen for scales. No. 951,947; Mar. 15; Sp. p. 3025; Gaz. vol. 152; p. 548.

Hains, William F. (See Abbott, Warren E., assignor.)

Hair, Isaac M., Union, S. C. Dental cuspidor. No. 957,671; May 10; Sp. p. 2495; Gaz. vol. 154; p. 431.

Hair, James L., St. Elmo, Tenn. Coal-hod. No. 970,218; Sept. 13; Sp. p. 2320; Gaz. vol. 158; p. 390.

Haislip, John P., assignor of one-half to J. T. Peters, Roanoke, Va. Churn-dasher. No. 968,937; Aug. 30; Sp. p. 6608; Gaz. vol. 157; p. 1150.

Hajdú, Joseph, and M. Kovács, Pricedale, Pa. Fan attachment for swings. No. 953,463; Mar. 29; Sp. p. 6209; Gaz. vol. 152; p. 1113.

Hajek, Otto, assignor to The Firm of A. Friedmann, Vienna, Austria-Hungary. Lubricator. No. 953,609; Mar. 29; Sp. p. 6523; Gaz. vol. 152; p. 1165.

Hajek, Otto, assignor to The Firm of A. Friedmann, Vienna, Austria-Hungary. Lubricator. No. 963,547; July 5; Sp. p. 1171; Gaz. vol. 156; p. 179.

Hajos, Joseph, Pilot Knob, Mo. Folding chair. No. 946,352; Jan. 11; Sp. p. 2943; Gaz. vol. 150; p. 489.

Hakes, Hudson W., Millbury, Mass. Harness-frame for looms. No. 968,847; Aug. 30; Sp. p. 6423; Gaz. vol. 157; p. 1119.

Halane, George W., Covell, Ill. Straw-stacker. No. 975,415; Nov. 15; Sp. p. 2994; Gaz. vol. 160; p. 509.

Halász, Ákos, Maros-Illye, Austria-Hungary. Paper-adjusting device for writing-machines. No. 972,445; Oct. 11; Sp. p. 2002; Gaz. vol. 159; p. 352.

Halbleib, Edward A., Rochester, N. Y. Circuit-controller-retarding device. No. 968,468; Aug. 23; Sp. p. 5589; Gaz. vol. 157; p. 964.

Halbom, Oley R. (See Stridell, Halbom, and McNeil.)

Halcomb Steel Company. (See Bulley, Reginald H., assignor.)

Hald, Alfred P., Minneapolis, Minn. Derrick. No. 964,248; July 12; Sp. p. 2653; Gaz. vol. 156; p. 437.

Haldeman, John R., Independence, Mo. Loose-leaf holder. No. 955,330; Apr. 19; Sp. p. 3534; Gaz. vol. 153; p. 625.

Haldeman, John R., Springfield, Mo. Domestic boiler. No. 978,020; Dec. 6; Sp. p. 1290; Gaz. vol. 161; p. 207.

Halderman, Joseph A., Chicago, Ill. Wardrobe-hanger for sleeping-cars. No. 949,356; Feb. 15; Sp. p. 3316; Gaz. vol. 151; p. 581.

Haldy, Henri, assignor to J. Stark, Waltham, Mass. Tool-post for lathes. No. 970,219; Sept. 13; Sp. p. 2320; Gaz. vol. 158; p. 390.

Hale, Charles W. (See Furbush, Albourne F., assignor.)

Hale, Elbert D., Endicott, Wash. Money-changing device. No. 966,741; Aug. 9; Sp. p. 1959; Gaz. vol. 157; p. 329.

Hale, Frank B., Fosterville, Tenn. Metallic roofing. No. 946,998; Jan. 18; Sp. p. 4449; Gaz. vol. 150; p. 733.

Hale, George C., Kansas City, Mo. Concrete post. No. 962,340; June 21; Sp. p. 4417; Gaz. vol. 155; p. 761.

Hale, Henry A. (See Talbert, Edgar H., assignor.)

Hale, Henry S., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Seat-frame. No. 971,371; Sept. 27; Sp. p. 4727; Gaz. vol. 158; p. 826.

Hale, Hugh E., and J. O. Potts, St. Louis, Mo. Hand-car. No. 948,878; Feb. 8; Sp. p. 2312; Gaz. vol. 151; p. 393.

Alphabetical list of patentees—Continued.

Hale, John R., Mendocino, assignor of fifteen one-hundredths to D. H. Antrim and thirty-three one-hundredths to J. Halliday, Point Arena, Cal. Combined lever and wedge. No. 953,138; Mar. 29; Sp. p. 5511; Gaz. vol. 152; p. 1005.
Hale and Kilburn Manufacturing Company, The. (See Old and Bennett, assignors.)
Hale-Kilburn Metal Company. (See Brinckerhoff, Francis M., assignor.)
Hale-Kilburn Metal Company. (See Budd, Edward G., assignor.)
Hale-Kilburn Metal Company. (See Hale, Henry S., assignor.)
Hale-Kilburn Metal Company. (See Hoffman, Jacob K., assignor.)
Hale, Stephen H., St. Joseph, Mo. Exhaust-regenerating steam and water heater combined. No. 958,636; May 17; Sp. p. 4825; Gaz. vol. 154; p. 792.
Hale, Stephen H., Neodesha, Kans. Air and gas mixing device. No. 970,919; Sept. 20; Sp. p. 3804; Gaz. vol. 158; p. 649.
Hale, William S., Buckley, Ill. Automatic attachment for cleaning round carbon or metal lightning-arresters. No. 968,938; Aug. 30; Sp. p. 6609; Gaz. vol. 157; p. 1151.
Hales, Robert, Garfield township, Sioux county, Iowa. Seed-corn tester. No. 966,742; Aug. 9; Sp. p. 1964; Gaz. vol. 157; p. 330.
Hales, William E., assignor of two-thirds to A. Porter and W. J. Weaver, Detroit, Mich. Vending-machine. No. 961,694; June 14; Sp. p. 2990; Gaz. vol. 155; p. 518.
Haley, Arthur L., assignor to A. L. Haley Architect Incorporated, Los Angeles, Cal. Bed. No. 956,339; Apr. 26; Sp. p. 5754; Gaz. vol. 153; p. 1001.
Haley, Arthur L., assignor to A. L. Haley Architect Incorporated, Los Angeles, Cal. Wall-seat wall-bed. No. 956,340; Apr. 26; Sp. p. 5756; Gaz. vol. 153; p. 1002.
Haley, Patrick A., Cleveland, Ohio. Steel tie and rail-joint. No. 946,696; Jan. 18; Sp. p. 3760; Gaz. vol. 150; p. 629.
Halin, Ole E., Minneapolis, Minn. Double-swinging-door hinge. No. 975,130; Nov. 8; Sp. p. 2390; Gaz. vol. 160; p. 387.
Hall, Abner M., Williamsport, Pa. Pipe-wrench. No. 953,610; Mar. 29; Sp. p. 6524; Gaz. vol. 152; p. 1165.
Hall, Albert H., Peru, assignor to Forster Manufacturing Company, Dixfield, Me. Splint-cutting machine. No. 963,141; July 5; Sp. p. 294; Gaz. vol. 156; p. 41.
Hall, Alida L., administratrix. (See Hall, Wilber P.)
Hall, Almon E., Williamstown, Mass. Coin-mailing device. No. 962,956; June 28; Sp. p. 5692; Gaz. vol. 155; p. 997.
Hall, Benjamin, Nevada City, Cal. Ore-roasting furnace. No. 945,522; Jan. 4; Sp. p. 1116; Gaz. vol. 150; p. 172.
Hall, Bicknell, Taunton, assignor to Rotary Ring Spinning Company, Boston, Mass. Holder for rotary rings. No. 952,803; Mar. 22; Sp. p. 4803; Gaz. vol. 152; p. 864.
Hall, Bicknell, Taunton, assignor to Rotary Ring Spinning Company, Boston, Mass. Holder for rotary spinning-rings. No. 952,804; Mar. 22; Sp. p. 4805; Gaz. vol. 152; p. 864.
Hall, Bicknell, Taunton, assignor to Rotary Ring Spinning Company, Boston, Mass. Holder for rotary rings. No. 958,392; May 17; Sp. p. 4356; Gaz. vol. 154; p. 711.
Hall, Blanche, Brooklyn, N. Y. Chafing-shield. No. 956,341; Apr. 26; Sp. p. 5763; Gaz. vol. 153; p. 1002.
Hall, Charles E., and W. Dicks, assignors to Charles E. Hall Company, Buffalo, N. Y. Carbureter. No. 962,140; June 21; Sp. p. 3992; Gaz. vol. 155; p. 693.
Hall, Charles F., assignor, by mesne assignments, to J. L. Friedman, Chicago, Ill. Machine for stripping tobacco. No. 948,136; Feb. 1; Sp. p. 731; Gaz. vol. 151; p. 120.
Hall, Charles F. A., Newburyport, Mass. Physician's card-index. No. 946,637; Jan. 18; Sp. p. 3639; Gaz. vol. 150; p. 610.
Hall, Charles L., Bryan, Tex. Plow. No. 975,614; Nov. 15; Sp. p. 3417; Gaz. vol. 160; p. 580.
Hall, Charles R., assignor of one-fourth to R. F. Hall, Monroeton, Pa. Cranking device for internal-combustion engines. No. 974,136; Nov. 1; Sp. p. 58; Gaz. vol. 160; p. 13.
Hall, Dana G. (See King and Hall.)
Hall, Edgar R., Austin, Tex. Lock-corner. No. 959,734; May 31; Sp. p. 7148; Gaz. vol. 154; p. 1213.
Hall, Edward L., New York, N. Y. Camera. No. 965,516; July 26; Sp. p. 5445; Gaz. vol. 156; p. 929.
Hall, Edwin A., Hyde Park, Mass. Phonograph-cabinet. No. 959,522; May 31; Sp. p. 6708; Gaz. vol. 154; p. 1142.
Hall, Edwin A., Dansville, and F. G. Hall, Jr., Newburgh, N. Y. Exhaust-silencer. No. 945,523; Jan. 4; Sp. p. 1118; Gaz. vol. 150; p. 172.
Hall, Edwin T. W., Concord, N. H. Refrigerating apparatus. No. 952,040; Mar. 15; Sp. p. 3210; Gaz. vol. 152; p. 577.
Hall, Eugene D., Iuka, Miss. Cheese-cover. No. 957,053; May 3; Sp. p. 1193; Gaz. vol. 154; p. 189.
Hall, Francis G., Jr. (See Hall, Edwin A. and F. G., Jr.)
Hall, Francis H., Burbank, Cal. Mail-crane. No. 966,743; Aug. 9; Sp. p. 1966; Gaz. vol. 157; p. 330.
Hall, Francis W., Wickliffe, Ohio. Tagging-machine. No. 957,420; May 10; Sp. p. 1992; Gaz. vol. 154; p. 344.
Hall, Frank. (See Davis, Claude B., assignor.)
Hall, Frank B., Wheeling, W. Va. Electric-circuit-changing mechanism. No. 978,879; Dec. 20; Sp. p. 3130; Gaz. vol. 161; p. 555.
Hall, Frank G., Riverside, Cal. Mechanical directory. No. 946,034; Jan. 11; Sp. p. 2273; Gaz. vol. 150; p. 378.
Hall, Frank I., *et al.* (See Talbot, John W., assignor.)
Hall, Frank W. (See King, Hughes, and Hall.)
Hall, Fred C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 969,472; Sept. 6; Sp. p. 678; Gaz. vol. 158; p. 107.
Hall, George E., assignor of one-half to G. L. Rice, Denver, Colo. Metal railway-tie. No. 961,070; June 7; Sp. p. 1668; Gaz. vol. 155; p. 279.
Hall, George E., Denver, Colo., assignor of one-half to G. L. Rice. Rail-cushion metal railway-tie. No. 961,071; June 7; Sp. p. 1670; Gaz. vol. 155; p. 280.
Hall, George F., Providence, R. I. Combined floor leveling and surfacing machine. No. 970,043; Sept. 13; Sp. p. 1947; Gaz. vol. 158; p. 330.
Hall, George F., Providence, R. I. Floor-dressing machine. No. 971,443; Sept. 27; Sp. p. 4846; Gaz. vol. 158; p. 849.
Hall, George F., Providence, R. I. Floor-dressing machine. No. 972,446; Oct. 11; Sp. p. 2003; Gaz. vol. 159; p. 352.
Hall, George F., Summit, assignor of one-half to G. Rubsamen, Jersey City, N. J. Umbrella-runner. No. 960,169; May 31; Sp. p. 8099; Gaz. vol. 154; p. 1362.
Hall, George F., Newark, N. J., assignor of two-thirds to A. W. Hammett and W. Sweetland. Can-opener. No. 974,484; Nov. 1; Sp. p. 945; Gaz. vol. 160; p. 140.
Hall, George L., New York, N. Y. Washer for screw-bolts. No. 946,127; Jan. 11; Sp. p. 2452; Gaz. vol. 150; p. 409.
Hall, George L., New York, N. Y. Guard-rail clamp. No. 979,477; Dec. 27; Sp. p. 4442; Gaz. vol. 161; p. 784.
Hall, George L., New York, N. Y. Rail-joint. No. 979,478; Dec. 27; Sp. p. 4443; Gaz. vol. 161; p. 785.
Hall, Gilbert, Brooklyn, N. Y. Bottle. No. 950,446; Feb. 22; Sp. p. 5614; Gaz. vol. 151; p. 984.
Hall, Grant, Winnipeg, Manitoba, Canada. Liner for locomotive driving-boxes and the like. No. 946,035; Jan. 11; Sp. p. 2279; Gaz. vol. 150; p. 378.
Hall, Harry A. (See Hadfield and Hall.)
Hall, Harry A. (See Reeve and Hall.)
Hall, Harry H., *et al.* (See Talbot, John W., assignor.)
Hall, Hartwell & Co. (See McKay, Joseph, assignor.)
Hall, Hartwell & Co. (See Schoen, Paul E., assignor.)
Hall, Harvey, Paonia, Colo. Cross-line buckle. No. 961,347; June 14; Sp. p. 2286; Gaz. vol. 155; p. 404.
Hall, Harvey, Paonia, Colo. Reel. No. 977,732; Dec. 6; Sp. p. 689; Gaz. vol. 161; p. 107.
Hall, Herman H., Quincy, Mass. Clamping device. No. 947,282; Jan. 25; Sp. p. 5052; Gaz. vol. 150; p. 854.
Hall, James C., and J. Saborne, Vancouver, British Columbia, Canada. Rocket-head grapple. No. 952,805; Mar. 22; Sp. p. 4806; Gaz. vol. 152; p. 865.
Hall, James E., Greenville, Ill. Lawn-swing fan. No. 962,341; June 21; Sp. p. 4418; Gaz. vol. 155; p. 761.
Hall, James G., O'Fallon, Ill., assignor of one-half to J. A. Sauls, St. Louis, Mo. Chalk-line holder. No. 946,964; Jan. 18; Sp. p. 4387; Gaz. vol. 150; p. 721.
Hall, James R., Winnfield, La. Device for elevating water. No. 967,122; Aug. 9; Sp. p. 2785; Gaz. vol. 157; p. 456.
Hall, Jay H., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Control system for electromagnets. No. 967,186; Aug. 16; Sp. p. 2919; Gaz. vol. 157; p. 505.
Hall, Joel E., Meridian, Miss. Vertically-movable shade-bracket. No. 977,949; Dec. 6; Sp. p. 1140; Gaz. vol. 161; p. 183.
Hall, John B. (See Day, Louis A., assignor.)
Hall, John B., Philadelphia, Pa. Chuck. No. 948,685; Feb. 8; Sp. p. 1919; Gaz. vol. 151; p. 329.
Hall, John E., Buffalo, N. Y. Alarm apparatus. No. 954,675; Apr. 12; Sp. p. 2106; Gaz. vol. 153; p. 369.
Hall, John G., St. Louis, Mo. Fence-wire fastening. No. 977,386; Nov. 29; Sp. p. 7285; Gaz. vol. 160; p. 1237.
Hall, John H. (See Jones, Theodore N., assignor.)
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Range-transmitter. No. 945,940; Jan. 11; Sp. p. 2082; Gaz. vol. 150; p. 347.
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Signaling system. No. 946,431; Jan. 11; Sp. p. 3205; Gaz. vol. 150; p. 516.
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Training mechanism for guns, projectors, and the like. No. 953,139; Mar. 29; Sp. p. 5513; Gaz. vol. 152; p. 1006.
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Apparatus for transmitting and receiving information. No. 956,960; May 3; Sp. p. 1008; Gaz. vol. 154; p. 158.
Hall, Josephine A., Oakland, Cal. Telephone-mouthpiece. No. 976,457; Nov. 22; Sp. p. 5258; Gaz. vol. 160; p. 892.
Hall, Leon E., North Springfield, Vt. Stovepipe-ventilator. No. 947,816; Feb. 1; Sp. p. 65; Gaz. vol. 151; p. 14.

Alphabetical list of patentees—Continued.

Hall, Louis H., New York, N. Y. Clutch mechanism. No. 977,864; Dec. 6; Sp. p. 965; Gaz. vol. 161; p. 152.
Hall, Margaret B., Philadelphia, Pa. Sand-box for cars. No. 966,829; Aug. 9; Sp. p. 2170; Gaz. vol. 157; p. 357.
Hall, Philo, Brookings, S. D. Weed-destroyer. No. 947,906; Feb. 1; Sp. p. 269; Gaz. vol. 151; p. 44.
Hall, Ralph, Leadwood, Mo. Flue-thimble. No. 964,642; July 19; Sp. p. 3517; Gaz. vol. 156; p. 601.
Hall, Robert F. (See Hall, Charles R., assignor.)
Hall, Robert F., Moseley, near Birmingham, England. Magneto-machine for use in connection with the ignition systems of internal-combustion engines. No. 972,692; Oct. 11; Sp. p. 2566; Gaz. vol. 159; p. 437.
Hall, Robert F., Moseley, Birmingham, England. Sparking plug for internal-combustion engines. No. 976,797; Nov. 22; Sp. p. 5968; Gaz. vol. 160; p. 1008.
Hall, Robert H., Blair, Nev. Tramway-oiler. No. 945,782; Jan. 11; Sp. p. 1720; Gaz. vol. 150; p. 289.
Hall, Roderic F., East Orange, N. J., assignor to Western Electric Company, Chicago, Ill. Electric cable. No. 957,506; May 10; Sp. p. 2158; Gaz. vol. 154; p. 373.
Hall, Rollie E., Liverpool, N. Y. Pocket-fastener. No. 979,156; Dec. 20; Sp. p. 3792; Gaz. vol. 161; p. 657.
Hall, Samuel N., Houston, Tex. Well-screen. No. 956,080; Apr. 26; Sp. p. 5183; Gaz. vol. 153; p. 913.
Hall, Samuel N., Houston, Tex. Rotary for well-tubing. No. 956,081; Apr. 26; Sp. p. 5184; Gaz. vol. 153; p. 913.
Hall, Stephen S., assignor to The Pickering Governor Co., Portland, Conn. Self-locking automatic stop for governors. No. 979,289; Dec. 20; Sp. p. 4074; Gaz. vol. 161; p. 700.
Hall, Thomas, Brooklyn, N. Y. Concrete structure. No. 963,368; July 5; Sp. p. 809; Gaz. vol. 156; p. 119.
Hall, Thomas, assignor to Ridgway Dynamo & Engine Company, Ridgway, Pa. Valve-gear. No. 979,002; Dec. 20; Sp. p. 3421; Gaz. vol. 161; p. 601.
Hall, Thomas B. (See Bond and Hall.)
Hall, Thomas H., Worcester, Mass. Trap for kitchen-sinks. No. 960,901; June 7; Sp. p. 1329; Gaz. vol. 155; p. 223.
Hall, Walter S. (See Proelss and Hall.)
Hall, Wilber P., deceased, Pembroke, N. Y.; A. L. Hall, administratrix. Draft-regulating device for furnaces. No. 965,815; July 26; Sp. p. 6091; Gaz. vol. 156; p. 1033.
Hall, William A., Los Angeles, Cal. Folding knife. No. 950,102; Feb. 22; Sp. p. 4936; Gaz. vol. 151; p. 869.
Hall, William A., assignor to Hall's Perfect Beer Pipe Cleaning Co., New York, N. Y. Pipe-cleaning apparatus. No. 949,891; Feb. 22; Sp. p. 4454; Gaz. vol. 151; p. 796.
Hall, William A., New York, N. Y., assignor to American Mahogany Company. Coloring and fireproofing wood. No. 961,123; June 14; Sp. p. 1786; Gaz. vol. 155; p. 323.
Hall, William A., New York, N. Y., assignor to American Mahogany Company. Transforming wood. No. 964,017; July 12; Sp. p. 2192; Gaz. vol. 156; p. 359.
Hall, William A., assignor, by mesne assignments, to American Aerial Commercial Company, Los Angeles, Cal. Gearing for propellers. No. 974,961; Nov. 8; Sp. p. 2018; Gaz. vol. 160; p. 330.
Hall, William A., assignor to The Cincinnati Cooperage Company, Cincinnati, Ohio. Parquet flooring. No. 977,796; Dec. 6; Sp. p. 824; Gaz. vol. 161; p. 129.
Hall, William G., Irvington, N. J. Fruit-jar sealer. No. 957,952; May 17; Sp. p. 3107; Gaz. vol. 154; p. 555.
Hall, William G., Honolulu, Hawaii. Housing for sugar-mills. No. 966,199; Aug. 2; Sp. p. 766; Gaz. vol. 157; p. 121.
Hall, William H., Cincinnati, Ohio, and J. E. Dwyer, Newport, Ky., assignors to The Hall's Safe Company, Cincinnati, Ohio. Safe. No. 964,861; July 19; Sp. p. 4069; Gaz. vol. 156; p. 678.
Hall, William I., Rosehill, N. C. Vine-mower. No. 952,009; Mar. 15; Sp. p. 3150; Gaz. vol. 152; p. 567.
Hall, William J. (See Schandoney, Fred W., assignor.)
Hall, William L., Brockton, Mass. Gun-sight. No. 965,454; July 26; Sp. p. 5307; Gaz. vol. 156; p. 907.
Halladay, Reginald, *et al.* (See Poillon, George W., assignor.)
Hallahan, John P., assignor of one-half to G. B. Carey, Philadelphia, Pa. Support for concrete. No. 959,217; May 24; Sp. p. 6070; Gaz. vol. 154; p. 1015.
Hallam, Guy M., assignor to Historical Calendar Advertising Company, New York, N. Y. Advertising device. No. 964,967; July 19; Sp. p. 4282; Gaz. vol. 156; p. 714.
Hallam, William W. (See McCarty and Hindman, assignors.)
Hallander, John A., assignor to American Mining Tool Company, Ottumwa, Iowa. Apparatus for making cores for worm-gears. No. 945,941; Jan. 11; Sp. p. 2084; Gaz. vol. 150; p. 347.
Hallberg, Josef H., New York, N. Y., assignor to The Beck Flaming Lamp Company, Canton, N. Y. Arc-lamp electrode. No. 959,133; May 24; Sp. p. 5896; Gaz. vol. 154; p. 988.
Halle, Otto, Oranienburg, Germany. Exposure-indicator for photographic-plate holders. No. 970,494; Sept. 20; Sp. p. 2879; Gaz. vol. 158; p. 503.
Halleck, Frank A. (See Nelson, Halvorsen, and Halleck.)
Halleland, Karl J. (See Höiland and Halleland.)
Haller, Edward, assignor of one-half to M. Weinstein, Cleveland, Ohio. Serving-rack. No. 953,007; Mar. 22; Sp. p. 5205; Gaz. vol. 152; p. 933.
Haller, Edward, assignor of one-fourth to J. J. Koller and one-fourth to L. Herold, Cleveland, Ohio. Cigar-ash protector. No. 979,944; Dec. 27; Sp. p. 5466; Gaz. vol. 161; p. 944.
Haller, Joseph F., Sheridanville, Pa. Fruit-washing machine. No. 952,734; Mar. 22; Sp. p. 4638; Gaz. vol. 152; p. 841.
Haller, Joseph F., Sheridan borough, Pa. Filling-machine. No. 978,154; Dec. 13; Sp. p. 1599; Gaz. vol. 161; p. 284.
Haller, Pearl M. (See Winters, George, assignor.)
Halley, Edward, Chicago, Ill., assignor of one-half to R. J. McDonell, Victoria, British Columbia, Canada. Steam and water gage. No. 971,268; Sept. 27; Sp. p. 4532; Gaz. vol. 158; p. 792.
Halliday, Joseph, *et al.* (See Hale, John R., assignor.)
Halliday, Robert W., Cleveland, Ohio. Fence-making machine. No. 946,353; Jan. 11; Sp. p. 2944; Gaz. vol. 150; p. 489.
Halliwell, John J., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Ink-feeding mechanism for printing-machines. No. 967,906; Aug. 23; Sp. p. 4377; Gaz. vol. 157; p. 772.
Halliwell, Reginald F., Rugby, England, assignor to General Electric Company. Elastic-fluid turbine. No. 963,142; July 5; Sp. p. 300; Gaz. vol. 156; p. 41.
Halliwell, Thomas S., and H. B. Maschmeier, Denver, Colo. Boring-tool. No. 958,112; May 17; Sp. p. 3631; Gaz. vol. 154; p. 612.
Hallmark, Ples C., Sparta, Tex. Cotton-stalk cutter. No. 945,090; Jan. 4; Sp. p. 178; Gaz. vol. 150; p. 30.
Hallock, Anne L. (See Hallock, Arthur T., assignor.)
Hallock, Arthur T., assignor to Cookerette Company, Grand Rapids, Mich. Fireless cooker. No. 966,014; Aug. 2; Sp. p. 366; Gaz. vol. 157; p. 59.
Hallock, Arthur T., Grand Rapids, assignor to Cookerette Company, Muskegon, Mich. Fireless cooker. No. 975,416; Nov. 15; Sp. p. 2996; Gaz. vol. 160; p. 510.
Hallock, Arthur T., Grand Rapids, assignor, by mesne assignments, to A. L. Hallock, Muskegon, Mich. Swinging bed or hammock. No. 979,157; Dec. 20; Sp. p. 3794; Gaz. vol. 161; p. 657.
Hallock, Arthur T., Grand Rapids, assignor, by mesne assignments, to A. L. Hallock, Muskegon, Mich. Bottom for hammocks. No. 979,158; Dec. 20; Sp. p. 3795; Gaz. vol. 161; p. 657.
Hallock, Fletcher D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistance-terminal. No. 946,576; Jan. 18; Sp. p. 3504; Gaz. vol. 150; p. 589.
Hallock, Fletcher D., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Controller. No. 958,803; May 24; Sp. p. 5194; Gaz. vol. 154; p. 875.
Hallock, Fletcher D., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-starter. No. 958,804; May 24; Sp. p. 5196; Gaz. vol. 154; p. 876.
Hallock, Fletcher D., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rheostatic controller for electric motors. No. 958,805; May 24; Sp. p. 5198; Gaz. vol. 154; p. 876.
Hallock, Fletcher D., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulating-rheostat. No. 958,806; May 24; Sp. p. 5201; Gaz. vol. 154; p. 877.
Hallock, Fletcher D., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Rheostat. No. 958,869; May 24; Sp. p. 5360; Gaz. vol. 154; p. 899.
Hallock, Fletcher D., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Starting-rheostat. No. 958,870; May 24; Sp. p. 5362; Gaz. vol. 154; p. 900.
Hallock, Fletcher D., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulating-rheostat for electric motors. No. 959,005; May 24; Sp. p. 5626; Gaz. vol. 154; p. 945.
Hallock, Rufus B., Portland, Oreg. Fountain-pen. No. 946,036; Jan. 11; Sp. p. 2280; Gaz. vol. 150; p. 379.
Halloran, Arthur H., San Francisco, Cal. Type-measuring device. No. 972,528; Oct. 11; Sp. p. 2210; Gaz. vol. 159; p. 381.
Halloran, Henry G., Brighton, Mass., assignor to Methalco Chemical Company, Providence, R. I. Forming glue from leather. No. 967,762; Aug. 16; Sp. p. 4088; Gaz. vol. 157; p. 700.
Hallowell, William, assignor of one-half to H. and W. E. Storey, Manchester, England. Valve. No. 966,909; Aug. 9; Sp. p. 2331; Gaz. vol. 157; p. 383.
Hall's Perfect Beer Pipe Cleaning Co. (See Hall, William A., assignor.)
Hall's Safe Company, The. (See Hall and Dwyer, assignors.)
Hallwood, Henry S., Columbus, Ohio. Scale. No. 970,442; Sept. 13; Sp. p. 2751; Gaz. vol. 158; p. 463.
Halsall, William H. A., Charleston, S. C. Ice-making apparatus. No. 975,523; Nov. 15; Sp. p. 3225; Gaz. vol. 160; p. 549.

Alphabetical list of patentees—Continued.

Halsey, Edward S., Lynn, Mass., assignor to General Electric Company. Gas-meter. No. 952,110; Mar. 15; Sp. p. 3335; Gaz. vol. 152; p. 600.
Halsey, Norman, Charleston, S. C. Tennis-court marker. No. 975,948; Nov. 15; Sp. p. 4105; Gaz. vol. 160; p. 693.
Halstead, Charles, Brooklyn, N. Y. Vapor-lamp. No. 960,011; May 31; Sp. p. 7782; Gaz. vol. 154; p. 1310.
Halsted, James E. (See Mallon, John A., assignor.)
Halverson, John O. (See Orgaard, Carl, assignor.)
Halverstadt, Leroy J., assignor to The Crescent Machine Company, Leetonia, Ohio. Guard for woodworking-machines. No. 969,618; Sept. 6; Sp. p. 999; Gaz. vol. 158; p. 159.
Halvorsen, Birger F., assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Absorbing dilute nitrous gases. No. 948,726; Feb. 8; Sp. p. 2010; Gaz. vol. 151; p. 344.
Halvorsen, Emanuel G., Brooklyn, N. Y. Automatic alarm. No. 973,425; Oct. 18; Sp. p. 4217; Gaz. vol. 159; p. 718.
Halvorsen, Halbert B. (See Nelson, Halvorsen, and Halleck.)
Halvorsen, Helge A., Chicago, Ill. Footwear-stretcher. No. 959,932; May 31; Sp. p. 7585; Gaz. vol. 154; p. 1281.
Halvorson, August, Spokane, Wash. Lifting-jack. No. 956,577; May 3; Sp. p. 154; Gaz. vol. 154; p. 26.
Halvorson, August, Spokane, Wash. Train-order-delivery apparatus. No. 971,004; Sept. 20; Sp. p. 3956; Gaz. vol. 158; p. 676.
Halvorson, Cromwell A. B., Jr. (See Fleming and Halvorson.)
Halvorson, Cromwell A. B., Jr., Saugus, Mass., assignor to General Electric Company. Arc-lamp. No. 973,653; Oct. 25; Sp. p. 4712; Gaz. vol. 159; p. 819.
Halyburton, John L., Hampton, N. J. Straightway valve. No. 974,055; Oct. 25; Sp. p. 5529; Gaz. vol. 159; p. 959.
Ham, William H. (See White and Ham.)
Hamacek, Adolph F., Chicago, Ill. Intermittent-motion device. No. 966,090; Aug. 2; Sp. p. 525; Gaz. vol. 157; p. 85.
Hamachek, Frank, Kewaunee, Wis. Feeder for threshing-machines. No. 952,520; Mar. 22; Sp. p. 4162; Gaz. vol. 152; p. 766.
Hamacher-Hawkins Manufacturing Co. (See Hamacher and Melchert, assignors.)
Hamacher, Lee D., and C. A. Melchert, Kansas City, Mo., assignors to Hamacher-Hawkins Manufacturing Co. Loose-leaf book. No. 968,657; Aug. 30; Sp. p. 6018; Gaz. vol. 157; p. 1056.
Hamaker, Aaron W., New York, N. Y. Attachment for type-casting machines. No. 971,040; Sept. 27; Sp. p. 4055; Gaz. vol. 158; p. 718.
Haman, Albert L. (See Hummel, Ernest A., assignor.)
Hamann, Adolph P., Adams Basin, N. Y. Attachment for pens. No. 969,689; Sept. 6; Sp. p. 1137; Gaz. vol. 158; p. 184.
Hamann, Richard W., assignor to E. J. Feiner, St. Louis, Mo. Boiler-tube-cleaner nozzle. No. 950,694; Mar. 1; Sp. p. 496; Gaz. vol. 152; p. 79.
Hamann, Richard W., assignor to E. J. Feiner, St. Louis, Mo. Boiler-tube cleaner. No. 955,870; Apr. 26; Sp. p. 4733; Gaz. vol. 153; p. 839.
Hamann, Richard W., assignor to E. J. Feiner, St. Louis, Mo. Boiler-tube cleaner. No. 955,871; Apr. 26; Sp. p. 4736; Gaz. vol. 153; p. 840.
Hamblen, Samuel. (See Lubbock and Hamblen.)
Hambourger, Samuel, Cleveland, Ohio. Burglar-alarm. No. 968,469; Aug. 23; Sp. p. 5591; Gaz. vol. 157; p. 965.
Hambry, Harold H., and G. McCans, Donora, Pa. Milk-can lock. No. 972,853; Oct. 18; Sp. p. 2921; Gaz. vol. 159; p. 519.
Hambuechen, Carl. (See Phillips and Hambuechen.)
Hamburger, Manes I., Baltimore, Md. Garment-clasp. No. 956,342; Apr. 26; Sp. p. 5764; Gaz. vol. 153; p. 1002.
Hamby, Arthur W., *et al.* (See McDaniel, James E., assignor.)
Hamby, Theodotus C., *et al.* (See McDaniel, James E., assignor.)
Hamel, Fernand, Paris, France. Manufacturing artificial fruit and other plastic objects. No. 976,359; Nov. 22; Sp. p. 5049; Gaz. vol. 160; p. 857.
Hamel, Riglander & Co. (See Bowers, George W., assignor.)
Hamelstrom, Charles E., Sioux Falls, S. D. Wall-papering apparatus. No. 951,562; Mar. 8; Sp. p. 2236; Gaz. vol. 152; p. 388.
Hamer, Frederick. (See King and Hamer.)
Hamer, Philip B., Renner, Tex. Rotary valve for planter-legs. No. 968,765; Aug. 30; Sp. p. 6261; Gaz. vol. 157; p. 1093.
Hamilton, Augustus W., and E. L. Thompson, Bluffton, Ind. Fence-post brace. No. 978,740; Dec. 13; Sp. p. 2869; Gaz. vol. 161; p. 486.
Hamilton, Cassius M., assignor to A. C. Thomas, Chicago, Ill. Mail-cabinet. No. 974,263; Nov. 1; Sp. p. 412; Gaz. vol. 160; p. 60.
Hamilton, Clarence W., Washington, D. C. String or cord fastener. No. 951,114; Mar. 8; Sp. p. 1317; Gaz. vol. 152; p. 241.
Hamilton, Coello, Plymouth, Mich. Rifle. No. 967,123; Aug. 9; Sp. p. 2788; Gaz. vol. 157; p. 457.
Hamilton, Edgar G., Burlington, Vt. Mailing-tube. No. 969,367; Sept. 6; Sp. p. 459; Gaz. vol. 158; p. 75.
Hamilton, Elmer G., Rockport, Ind. Wrench. No. 953,611; Mar. 29; Sp. p. 6526; Gaz. vol. 152; p. 1166.
Hamilton, Elwood E., Alfred, N. Y. Check-book. No. 961,956; June 21; Sp. p. 3576; Gaz. vol. 155; p. 630.
Hamilton, Frank, Jamaica, N. Y. Ventilation and aeration of sewage in sewage plants. No. 947,333; Jan. 25; Sp. p. 5172; Gaz. vol. 150; p. 873.
Hamilton, Frank, Beardstown, and C. R. Twyman, Galesburg, Ill. Variable-exhaust nozzle for engines. No. 977,301; Nov. 29; Sp. p. 7096; Gaz. vol. 160; p. 1207.
Hamilton, Frank L. (See Vroman and Hamilton.)
Hamilton, Frank P., Cleveland, Ohio. Blow-off valve. No. 972,370; Oct. 11; Sp. p. 1851; Gaz. vol. 159; p. 325.
Hamilton, Frederick, Providence, R. I. Eye-shield for spectacles. No. 971,372; Sept. 27; Sp. p. 4728; Gaz. vol. 158; p. 826.
Hamilton, Harry F., Boston, Mass. Saliva-tube for dentists' use. No. 979,290; Dec. 20; Sp. p. 4076; Gaz. vol. 161; p. 701.
Hamilton, Henry M., assignor to International Text Book Company, Scranton, Pa. Type-writing machine. No. 979,480; Dec. 27; Sp. p. 4447; Gaz. vol. 161; p. 786.
Hamilton, James. (See Hebig, Harry C., assignor.)
Hamilton, James. (See Lundén, Uno M., assignor.)
Hamilton, James, Weir, Kans. Automobile-rim. No. 957,672; May 10; Sp. p. 2497; Gaz. vol. 154; p. 431.
Hamilton, James, New York, N. Y. Valve-gear for power-hammers. No. 974,264; Nov. 1; Sp. p. 413; Gaz. vol. 160; p. 61.
Hamilton, James L., Grand Junction, Colo. Orchard-heater. No. 970,044; Sept. 13; Sp. p. 1953; Gaz. vol. 158; p. 331.
Hamilton, James L., Grand Junction, Colo. Orchard-heater. No. 976,072; Nov. 15; Sp. p. 4330; Gaz. vol. 160; p. 735.
Hamilton, John F. (See Downey and Hamilton.)
Hamilton, John J. (See Flotron and Hamilton.)
Hamilton, John R., Yonkers, N. Y., assignor to Ventura Alarm Company, Dover, N. J. Cutter for pipe and the like. No. 969,858; Sept. 13; Sp. p. 1553; Gaz. vol. 158; p. 267.
Hamilton, Joseph R., Kansas City, Mo. Collapsible-object mailing and souvenir card. No. 953,168; Mar. 29; Sp. p. 5569; Gaz. vol. 152; p. 1015.
Hamilton, Lew L., assignor to T. C. Prouty Company, Albion, Mich. Combined door check and buffer. No. 958,959; May 24; Sp. p. 5536; Gaz. vol. 154; p. 929.
Hamilton, Robert, assignor of one-half to H. O. V. Humble, Gouldbusk, Tex. Cotton checker and cultivator. No. 946,354; Jan. 11; Sp. p. 2950; Gaz. vol. 150; p. 490.
Hamilton, Robert, assignor of one-half to H. O. V. Humble, Gouldbusk, Tex. Cotton checker and cultivator. No. 946,509; Jan. 11; Sp. p. 3394; Gaz. vol. 150; p. 543.
Hamilton, Robert E. (See Densmore, Thomas H., assignor.)
Hamilton, Robert J., Wichita, Kans. Machine for molding cement blocks. No. 975,231; Nov. 8; Sp. p. 2610; Gaz. vol. 160; p. 422.
Hamilton, Uriah C., *et al.* (See Stickle, Arthur W., assignor.)
Hamilton, Willard I. (See Hughes, Charles M., assignor.)
Hamilton, William, assignor to Ferranti Limited, Hollinwood, England. Coin-freed prepayment mechanism. No. 953,612; Mar. 29; Sp. p. 6526; Gaz. vol. 152; p. 1166.
Hamilton, William, assignor to Ferranti Limited, Hollinwood, England. Coin-freed prepayment mechanism. No. 965,891; Aug. 2; Sp. p. 99; Gaz. vol. 157; p. 16.
Hamilton, William A., Mill Valley, assignor of one-half to E. C. Walter, San Francisco, Cal. Game apparatus. No. 974,661; Nov. 1; Sp. p. 1325; Gaz. vol. 160; p. 205.
Hamilton, William H. W., Los Angeles, Cal. Pump. No. 966,684; Aug. 9; Sp. p. 1807; Gaz. vol. 157; p. 309.
Hamilton, William L., Chicago, Ill. Reciprocating gear mechanism. No. 955,331; Apr. 19; Sp. p. 3535; Gaz. vol. 153; p. 625.
Hamilton, William L., Bangor, Mich. Valve. No. 975,524; Nov. 15; Sp. p. 3227; Gaz. vol. 160; p. 549.
Hamilton, William L., Glasgow, Scotland. Aerial or suspended railway. No. 978,581; Dec. 13; Sp. p. 2533; Gaz. vol. 161; p. 432.
Hamilton, William M., Westplains, Mo. Automatic car-step. No. 962,832; June 28; Sp. p. 5470; Gaz. vol. 155; p. 956.
Hamlin, Frederick N., Austin, Pa. Paper-making machine. No. 958,113; May 17; Sp. p. 3634; Gaz. vol. 154; p. 613.
Hamlin, Henrietta J., Metaline, Wash. Sewing-machine gage. No. 968,346; Aug. 23; Sp. p. 5351; Gaz. vol. 157; p. 923.
Hamlin, Percy M. (See Peakes and Hamlin.)
Hamlin, Pulaski M., Pittston, Pa., assignor of one-half to C. H. Unverzagt, New York, N. Y. Means for recovering by-products. No. 960,542; June 7; Sp. p. 626; Gaz. vol. 155; p. 101.
Hamm, Jacob M., Pittsburg, Pa. Adjustable plant-stand. No. 949,535; Feb. 15; Sp. p. 3686; Gaz. vol. 151; p. 640.
Hamm, Phillip T. (See Evans and Hamm.)
Hamm, Philip T., assignor to Atlas Chain Company, New York, N. Y. Antiskid device for tires. No. 979,159; Dec. 20; Sp. p. 3796; Gaz. vol. 161; p. 658.

Alphabetical list of patentees—Continued.

Hamm, Philip T., assignor to Atlas Chain Company, New York, N. Y. Antiskid device for tires. No. 979,160; Dec. 20; Sp. p. 3798; Gaz. vol. 161; p. 658.
Hamm, William S., Lakeside, assignor to The Adams & Westlake Company, Chicago, Ill. Lantern. No. 947,036; Jan. 18; Sp. p. 4523; Gaz. vol. 150; p. 745.
Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Lantern. No. 947,037; Jan. 18; Sp. p. 4525; Gaz. vol. 150; p. 745.
Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Lantern. No. 947,038; Jan. 18; Sp. p. 4526; Gaz. vol. 150; p. 746.
Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Lantern. No. 970,815; Sept. 20; Sp. p. 3612; Gaz. vol. 158; p. 616.
Hamma, Adolph J., Delawanna, N. J. Machine for sponging and finishing fabrics. No. 954,861; Apr. 12; Sp. p. 2557; Gaz. vol. 153; p. 436.
Hammalian, Paul M. (See Smith, John J. C., assignor.)
Hammalian, Peter M., Fresno, Cal. Shoe-lace. No. 969,054; Aug. 30; Sp. p. 6833; Gaz. vol. 157; p. 1190.
Hammar, Sigard A. S. (See Meigs and Hammar.)
Hammat, Henry P., Kahoka, Mo. Hay-grapple. No. 953,613; Mar. 29; Sp. p. 6530; Gaz. vol. 152; p. 1166.
Hamme, H. O. (See Ose, Knute E., assignor.)
Hammel, Charles A. (See Rogers, William A., assignor.)
Hammel, Charles A., Los Angeles, Cal. Oil-burning steam-boiler. No. 973,110; Oct. 18; Sp. p. 3521; Gaz. vol. 159; p. 608.
Hammel, Charles A., Los Angeles, Cal. Steam-boiler. No. 973,111; Oct. 18; Sp. p. 3523; Gaz. vol. 159; p. 609.
Hammel, Charles A., Los Angeles, Cal. Oil-burning locomotive-furnace. No. 973,112; Oct. 18; Sp. p. 3525; Gaz. vol. 159; p. 609.
Hammel, John F., Philadelphia, Pa. Feed-bag. No. 965,179; July 26; Sp. p. 4707; Gaz. vol. 156; p. 815.
Hammel, John F., Philadelphia, Pa. Feed-bag and support therefor. No. 965,180; July 26; Sp. p. 4708; Gaz. vol. 156; p. 815.
Hammen, Charles, assignor of one-half to J. Mohr, Chicago, Ill. Valve-gear for fluid-pressure motors. No. 976,458; Nov. 22; Sp. p. 5259; Gaz. vol. 160; p. 892.
Hammer, Conrad, Buffalo, N. Y. Animal-cleaning apparatus. (Reissue.) No. 13,078; Jan. 25; Sp. p. 6128; Gaz. vol. 150; p. 1021.
Hammer, Henry H., *et al.* (See Repass, James A., assignor.)
Hammer, Karl W., and C. L. Crist, Dayton, Ohio. Vehicle-spring. No. 965,579; July 26; Sp. p. 5596; Gaz. vol. 156; p. 952.
Hammer, Peter, Marlboro, N. Y. Arch-support, shoe cushion and ventilator. No. 951,605; Mar. 8; Sp. p. 2310; Gaz. vol. 152; p. 401.
Hammerschmidt, Anthony F., Grand Rapids, Mich. Combined shovel and scoop. No. 956,961; May 3; Sp. p. 1014; Gaz. vol. 154; p. 159.
Hammersley, Ralph. (See Vermilyea and Hammersley.)
Hammerstein, Arthur, New York, N. Y. Time-controlled apparatus. No. 949,764; Feb. 22; Sp. p. 4146; Gaz. vol. 151; p. 750.
Hammerstein, Oscar, New York, N. Y. Mouthpiece and lip-protector for cigars. No. 953,419; Mar. 29; Sp. p. 6119; Gaz. vol. 152; p. 1099.
Hammerstein, Oscar, New York, N. Y. Cigar-making machine. No. 967,187; Aug. 16; Sp. p. 2922; Gaz. vol. 157; p. 506.
Hammerstein, Oscar, New York, N. Y. Cigar-rolling machine. No. 969,274; Sept. 6; Sp. p. 260; Gaz. vol. 158; p. 43.
Hammerstein, Oscar, New York, N. Y. Cigar-banding machine. No. 972,185; Oct. 11; Sp. p. 1469; Gaz. vol. 159; p. 262.
Hammett, Arlingham W., *et al.* (See Hall, George F., assignor.)
Hammett, Charles A., Washington, D. C. Building tile or block. No. 964,160; July 12; Sp. p. 2483; Gaz. vol. 156; p. 408.
Hammett, Elbert A., assignor to Hammett Manufacturing Company, Kansas City, Mo. Lens-grinding apparatus. No. 974,880; Nov. 8; Sp. p. 1814; Gaz. vol. 160; p. 301.
Hammett, Elbert A., and E. H. Clark, Kansas City, Mo. Gradometer. No. 956,962; May 3; Sp. p. 1015; Gaz. vol. 154; p. 159.
Hammett, Isaac E. (See Huffman and Hammett.)
Hammett Manufacturing Company. (See Hammett, Elbert A., assignor.)
Hammett, Walter A., Corsicana, Tex. Playing-cards. No. 972,371; Oct. 11; Sp. p. 1852; Gaz. vol. 159; p. 325.
Hammetter, August H. (See Pfefferkorn, Schloerb, and Hammetter.)
Hammock, Royal H., Monroe, Ga. Clevis. No. 959,430; May 24; Sp. p. 6476; Gaz. vol. 154; p. 1085.
Hammond, Bennett W., Richmond, Cal. Vehicle-wheel. No. 976,360; Nov. 22; Sp. p. 5050; Gaz. vol. 160; p. 857.
Hammond, Charles P., Americus, Ga. Fastening device for securing rails to metal ties. No. 960,543; June 7; Sp. p. 629; Gaz. vol. 155; p. 102.
Hammond, Egbert F. (See Maxfield, Charles E., assignor.)
Hammond, George F., Cleveland, Ohio. Camera-finder. No. 970,443; Sept. 13; Sp. p. 2757; Gaz. vol. 158; p. 464.
Hammond, George W., Autreyville, Ga. Fence-stretcher. No. 970,495; Sept. 20; Sp. p. 2881; Gaz. vol. 158; p. 503.
Hammond, Grant, Hartford, Conn. Automatic gun. No. 954,799; Apr. 12; Sp. p. 2409; Gaz. vol. 153; p. 413.
Hammond, Grant, Hartford, Conn., assignor of one-half to T. Darlington, New York, N. Y. Automatic gun. No. 954,797; Apr. 12; Sp. p. 2385; Gaz. vol. 153; p. 412.
Hammond, Grant, Hartford, Conn., assignor of one-half to T. Darlington, New York, N. Y. Automatic gun. No. 954,798; Apr. 12; Sp. p. 2398; Gaz. vol. 153; p. 412.
Hammond, Henry C., Wanstead, England. Device for converting reciprocating into rotary motion. No. 947,233; Jan. 25; Sp. p. 4913; Gaz. vol. 150; p. 837.
Hammond, Hugh, Rochester, N. Y. Fruit-conveyer. No. 976,871; Nov. 29; Sp. p. 6137; Gaz. vol. 160; p. 1058.
Hammond, Irving L., Lewiston, Me. Machine for cording shipping-tags. No. 950,667; Mar. 1; Sp. p. 438; Gaz. vol. 152; p. 71.
Hammond, James T., Winsted, Conn. Handle. No. 958,114; May 17; Sp. p. 3636; Gaz. vol. 154; p. 613.
Hammond, John, Lineville, Iowa. Mail-hook. No. 953,829; Apr. 5; Sp. p. 293; Gaz. vol. 153; p. 52.
Hammond, John F., Prince Bay, N. Y., assignor to The S. S. White Dental Mfg. Co., Philadelphia, Pa. Dental bracket-engine. No. 950,768; Mar. 1; Sp. p. 662; Gaz. vol. 152; p. 106.
Hammond, John F., Prince Bay, N. Y., assignor to The S. S. White Dental Mfg. Co., Philadelphia, Pa. Foot-controller for electric motors. No. 969,055; Aug. 30; Sp. p. 6834; Gaz. vol. 157; p. 1190.
Hammond, Laurence, Spangler, Pa. Clip tie or gland puller. No. 950,849; Mar. 1; Sp. p. 827; Gaz. vol. 152; p. 133.
Hammond, Ormus D., Wyoming, N. Y. Towel-holder. No. 965,707; July 26; Sp. p. 5866; Gaz. vol. 156; p. 996.
Hammond, Robert A., Sandwich, Mass. Flat rope or belt. No. 966,830; Aug. 9; Sp. p. 2171; Gaz. vol. 157; p. 357.
Hammond, Robert O., assignor of one-half to H. A. Evans, one-fourth to C. E. Tyler, and one-eighth to J. S. Tyler, Rome, N. Y. Cold handle for cooking utensils. No. 979,847; Dec. 27; Sp. p. 5271; Gaz. vol. 161; p. 912.
Hammond, Robert P., Fort Worth, Tex. Coin-controlled slide. No. 970,045; Sept. 13; Sp. p. 1955; Gaz. vol. 158; p. 331.
Hammond, Theodore A., Passaic, N. J. Switchboard construction. No. 955,263; Apr. 19; Sp. p. 3383; Gaz. vol. 153; p. 603.
Hammond, William P., assignor to Securo Manufacturing Company, Passaic, N. J. Electrical switch. No. 977,797; Dec. 6; Sp. p. 826; Gaz. vol. 161; p. 129.
Hammonds, Green C., Thomaston, assignor of one-half to R. F. Duckworth, Union City, Ga. Cotton chopper and cultivator. No. 952,447; Mar. 22; Sp. p. 4001; Gaz. vol. 152; p. 742.
Hamor, George D. (See Tomer, John L., assignor.)
Hampel, Fredrick, New York, N. Y. Fruit-cutter. No. 951,241; Mar. 8; Sp. p. 1567; Gaz. vol. 152; p. 281.
Hamper, Harry D., and T. R. McKnight, assignors to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 961,772; June 21; Sp. p. 3167; Gaz. vol. 155; p. 569.
Hampton, Edward J., Berkeley, Cal. Stand for holding printing-press rolls. No. 970,046; Sept. 13; Sp. p. 1956; Gaz. vol. 158; p. 332.
Hampton, Emma C., New York, N. Y. Bed-robe. No. 971,992; Oct. 4; Sp. p. 1071; Gaz. vol. 159; p. 179.
Hampton, Frank H., Pullman, Ill., assignor to Jackson Cushion Edge Company, Jackson, Mich. Cushion-edge support. No. 947,907; Feb. 1; Sp. p. 270; Gaz. vol. 151; p. 45.
Hampton, Frank H., Pullman, Ill., assignor to Jackson Cushion Edge Company, Jackson, Mich. Cushion edge. No. 958,115; May 17; Sp. p. 3638; Gaz. vol. 154; p. 613.
Hampton, Frank H., Pullman, Ill., assignor to Jackson Cushion Edge Company, Jackson, Mich. Cushion edge. No. 958,116; May 17; Sp. p. 3640; Gaz. vol. 154; p. 614.
Hampton, William, Metz, Mich. Stovepipe-lock. No. 950,325; Feb. 22; Sp. p. 5391; Gaz. vol. 151; p. 946.
Hampton, Willis H., Canaseraga, N. Y. Power-gearing. No. 955,458; Apr. 19; Sp. p. 3802; Gaz. vol. 153; p. 668.
Hamrick, Fred H., Shawnee, Okla. Corn-popper. No. 972,854; Oct. 18; Sp. p. 2923; Gaz. vol. 159; p. 520.
Hanahan, Edward P., Springfield, Ohio. Steam-boiler. No. 967,763; Aug. 16; Sp. p. 4089; Gaz. vol. 157; p. 700.
Hanbury, David W. (See Gibson, William W., assignor.)
Hance, Anthony M., assignor to Hance Brothers & White, Philadelphia, Pa. Tablet-machine. No. 960,902; June 7; Sp. p. 1331; Gaz. vol. 155; p. 223.
Hance, Anthony M., assignor to Hance Brothers & White, Philadelphia, Pa. Multiple-plunger case. No. 960,903; June 7; Sp. p. 1334; Gaz. vol. 155; p. 224.
Hance, Anthony M., assignor to Hance Brothers & White, Philadelphia, Pa. Multiple-plunger case. No. 965,138; July 19; Sp. p. 4616; Gaz. vol. 156; p. 769.
Hance Brothers & White. (See Hance, Anthony M., assignor.)
Hanchett Swage Works. (See Hedstrom, John P., assignor.)
Hancock, Abram O., Richmond, Va. Stove. No. 960,904; June 7; Sp. p. 1335; Gaz. vol. 155; p. 224.

Alphabetical list of patentees—Continued.

Hancock, Elmer E., Philadelphia, Pa. Automobile-license-tag holder. No. 959,735; May 31; Sp. p. 7149; Gaz. vol. 154; p. 1213.
Hancock, Elmer E., and C. F. Arnold, Philadelphia, Pa. Gas-generator. No. 951,501; Mar. 8; Sp. p. 2119; Gaz. vol. 152; p. 367.
Hancock, George H., assignor of one-half to W. T. Burkhalter, Reidsville, Ga. Cotton-chopper. No. 967,373; Aug. 16; Sp. p. 3289; Gaz. vol. 157; p. 570.
Hancock, George H., assignor of one-half to W. T. Burkhalter, Reidsville, Ga. Music-leaf turner. No. 968,470; Aug. 23; Sp. p. 5591; Gaz. vol. 157; p. 965.
Hancock, Harry A., assignor to The Brown Straw Binder Company, Indianapolis, Ind. Clutch. No. 962,567; June 28; Sp. p. 4937; Gaz. vol. 155; p. 865.
Hancock, Henry R., Burnside, South Australia, Australia, assignor to Allis-Chalmers Company, Milwaukee, Wis. Jigging-machine for dressing ores. No. 965,294; July 26; Sp. p. 4942; Gaz. vol. 156; p. 852.
Hancock, Thomas C., Johannesburg, Transvaal. Combined free-wheel clutch and back-pedaling band-brake for cycles. No. 952,041; Mar. 15; Sp. p. 3212; Gaz. vol. 152; p. 578.
Hancock, William O., Orleans, Ind. Gearing. No. 970,328; Sept. 13; Sp. p. 2528; Gaz. vol. 158; p. 427.
Hand, Alfred. (See Kulp, Joseph, assignor.)
Hand, George T. (See Snell and Hand.)
Hand, Harry and T.; said Harry Hand assignor to said T. Hand, Seattle, Wash. Wrench. No. 952,327; Mar. 15; Sp. p. 3763; Gaz. vol. 152; p. 674.
Hand, James T. G., Atco, N. J. Post or column of metal, cement, &c. No. 967,374; Aug. 16; Sp. p. 3290; Gaz. vol. 157; p. 570.
Hand, Jesse H., Ann Arbor, Mich. Car-brake. No. 949,471; Feb. 15; Sp. p. 3556; Gaz. vol. 151; p. 619.
Hand, Townson. (See Hand, Harry and T.)
Handel, Philip J., and A. E. Teich, Meriden, Conn.; said Teich assignor to said Handel. Shade-holder. No. 979,664; Dec. 27; Sp. p. 4850; Gaz. vol. 161; p. 850.
Handiges, Philip T., assignor of one-half to A. Waycott, Cleveland, Ohio. Door-operator. No. 959,523; May 31; Sp. p. 6709; Gaz. vol. 154; p. 1142.
Handiges, Philip T., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Forged-steel fulcrum for trussed type of brake-beams. No. 959,524; May 31; Sp. p. 6713; Gaz. vol. 154; p. 1143.
Handlan, Alexander H., Jr., St. Louis, Mo. Signal-lantern. No. 962,758; June 28; Sp. p. 5325; Gaz. vol. 155; p. 930.
Handlan, Alexander H., Jr., St. Louis, Mo. Lantern. No. 968,347; Aug. 23; Sp. p. 5352; Gaz. vol. 157; p. 923.
Handlan, Alexander H., Jr., St. Louis, Mo. Lantern-frame. No. 968,348; Aug. 23; Sp. p. 5353; Gaz. vol. 157; p. 923.
Handlan, Alexander H., Jr., St. Louis, Mo. Lantern-frame. No. 979,848; Dec. 27; Sp. p. 5272; Gaz. vol. 161; p. 913.
Handlan-Buck Manufacturing Company. (See Prahm, Adolph F., assignor.)
Handlan-Buck Manufacturing Company. (See Rolfes, George H., assignor.)
Händle, Gottlob, Mühlacker, Germany. Charging device for mixing and crushing machines. No. 964,512; July 19; Sp. p. 3216; Gaz. vol. 156; p. 556.
Handley, Edward. (See Keyhoe and Handley.)
Handley, John A., Jr. (See Lott, Andrew G., assignor.)
Handly, Thomas F., Allegheny, Pa. Fire-extinguisher. No. 954,184; Apr. 5; Sp. p. 1034; Gaz. vol. 153; p. 175.
Handly, Thomas F., Allegheny, Pa. Fire-extinguisher. No. 954,281; Apr. 5; Sp. p. 1237; Gaz. vol. 153; p. 206.
Handly, Thomas F., Allegheny, Pa. Fire-extinguisher. No. 954,282; Apr. 5; Sp. p. 1242; Gaz. vol. 153; p. 207.
Handschy, Frederick W., Seattle, Wash. Carton. No. 970,220; Sept. 13; Sp. p. 2322; Gaz. vol. 158; p. 390.
Handseth, Iver. (See Moen, Nels L., assignor.)
Handy, Arthur E., Cranston, R. I. Automatic motor-controller. No. 948,560; Feb. 8; Sp. p. 1648; Gaz. vol. 151; p. 288.
Handy Manufacturing Company, The. (See Loeber, Edgar O., assignor.)
Handy Things Company. (See Bailey, Herbert L., assignor.)
Handy, Thomas J., *et al.* (See Jones, Robert T., assignor.)
Handy, William W., *et al.* (See Jones, Robert T., assignor.)
Hancl, Albert B., Milwaukee, Wis. Concealed fish-hook. No. 945,091; Jan. 4; Sp. p. 179; Gaz. vol. 150; p. 30.
Hanes, Christopher G., Louis, Okla. Cotton-chopper. No. 950,481; Mar. 1; Sp. p. 37; Gaz. vol. 152; p. 8.
Hanes, Frederick A., and W. Staples, assignors to W. M. Duncan, Huntsville, Canada. Adjustable box-bit. No. 960,315; June 7; Sp. p. 151; Gaz. vol. 155; p. 28.
Hanes, George E., and J. B. Waller, Kansas City, Mo. Centrifugal pump. No. 975,232; Nov. 8; Sp. p. 2614; Gaz. vol. 160; p. 422.
Haney, Frederick G., assignor of one-fourth to A. Moore, and one-fourth to W. Simpson, East Liverpool, Ohio. Pottery-kiln. No. 965,892; Aug. 2; Sp. p. 102; Gaz. vol. 157; p. 17.
Hanfig, Harris, Charlestown, Mass. Combination-lock. No. 976,872; Nov. 29; Sp. p. 6138; Gaz. vol. 160; p. 1058.
Hanger, James A., Dayton, Wash. Plow. No. 945,274; Jan. 4; Sp. p. 558; Gaz. vol. 150; p. 92.
Hanger, James E., Washington, D. C. Artificial limb. No. 951,989; Mar. 15; Sp. p. 3110; Gaz. vol. 152; p. 561.
Haniquet, George, Longbeach, Cal. Revolving gas-engine. No. 965,385; July 26; Sp. p. 5144; Gaz. vol. 156; p. 883.
Hanisch, Paul, Cologne-on-the-Rhine, Germany. Arc-lamp. No. 975,034; Nov. 8; Sp. p. 2177; Gaz. vol. 160; p. 354.
Hanisch, Paul, Cologne, and J. Rosemeyer, Cologne-Lindenthal, Germany. Arc-lamp. No. 953,140; Mar. 29; Sp. p. 5517; Gaz. vol. 152; p. 1006.
Hank, Frank, New York, N. Y. Resilient wheel. No. 964,249; July 12; Sp. p. 2655; Gaz. vol. 156; p. 437.
Hankin, Richard, Passaic, N. J., and J. Mosner, New York, N. Y. Beam clamp and hanger. No. 947,441; Jan. 25; Sp. p. 5428; Gaz. vol. 150; p. 909.
Hankins, Robert A., assignor of one-half to E. R. Lyons, New Orleans, La. Needle-case. No. 969,141; Aug. 30; Sp. p. 7024; Gaz. vol. 157; p. 1222.
Hankins, Thomas W., Stella, Mo. Sanitary milking-pail. No. 970,816; Sept. 20; Sp. p. 3614; Gaz. vol. 158; p. 617.
Hanks, Gardner C. (See Nelson and Hanks.)
Hanley, John M., assignor of one-half to W. C. Casey, Altona, N. Y. Train-order holder. No. 967,907; Aug. 23; Sp. p. 4380; Gaz. vol. 157; p. 772.
Hanley, William, Bradford, Pa. Apparatus for making bricks. No. 959,006; May 24; Sp. p. 5628; Gaz. vol. 154; p. 946.
Hanline, Alexander M., *et al.* (See Leder, Paul H. A., assignor.)
Hanlon, Bernard, Miles City, Mont. Hame-ring. No. 977,733; Dec. 6; Sp. p. 692; Gaz. vol. 161; p. 108.
Hanlon, George W., New York, assignor of one-third to E. Morange, Mount Vernon, and one-third to F. R. Kalck, New York, N. Y. Advertising device. No. 960,316; June 7; Sp. p. 152; Gaz. vol. 155; p. 29.
Hanlon, John H., Somerville, Mass. Track-sander. No. 952,111; Mar. 15; Sp. p. 3336; Gaz. vol. 152; p. 601.
Hanlon, John H., Somerville, Mass. Engineer's valve for pneumatic sanders. No. 958,393; May 17; Sp. p. 4357; Gaz. vol. 154; p. 711.
Hanlon, John J., Troy, N. Y. Soot-ejector for water-tube boilers. No. 948,761; Feb. 8; Sp. p. 2097; Gaz. vol. 151; p. 356.
Hanly, George A. (See Martin and Hanly.)
Hanly, George A., and G. R. Martin, Chicago, Ill. Gas-distributing system. No. 976,734; Nov. 22; Sp. p. 5815; Gaz. vol. 160; p. 985.
Hann, Alice M. (See Hann, Chester K., assignor.)
Hann, Chester K., assignor to A. M. Hann, Columbus, Ohio. Grass-catcher. No. 954,569; Apr. 12; Sp. p. 1860; Gaz. vol. 153; p. 332.
Hann, Samuel H. (See Rider, Charles B., assignor.)
Hanna, Albert H. (See Hanna, John and A. H.)
Hanna, Carl M., Del Norte, Colo. Attachment for sheaf-carriers. No. 948,013; Feb. 1; Sp. p. 484; Gaz. vol. 151; p. 78.
Hanna, David J. (See Van Houten and Hanna.)
Hanna, Frank W., Boise, Idaho. Self-registering water-meter. No. 946,128; Jan. 11; Sp. p. 2454; Gaz. vol. 150; p. 409.
Hanna, John and A. H., Troy, N. Y. Air-compressor. No. 975,233; Nov. 8; Sp. p. 2616; Gaz. vol. 160; p. 422.
Hanna, Samuel C., Shelby, assignor to F. B. Zieg Mfg. Co., Fredericktown, Ohio. Grading-machine. No. 972,763; Oct. 11; Sp. p. 2717; Gaz. vol. 159; p. 462.
Hanna, William T., assignor, by mesne assignments, to The Mechanical Construction Company, Cincinnati, Ohio. Automatic stoker. No. 979,849; Dec. 27; Sp. p. 5273; Gaz. vol. 161; p. 913.
Hanna, William T., assignor, by mesne assignments, to The Mechanical Construction Company, Cincinnati, Ohio. Automatic stoker. No. 979,850; Dec. 27; Sp. p. 5276; Gaz. vol. 161; p. 913.
Hannaford, Alfred, Chicago, Ill. Hog-hoisting machine. No. 972,186; Oct. 11; Sp. p. 1474; Gaz. vol. 159; p. 262.
Hannaford, Alfred, Chicago, Ill., assignor to Allbright-Nell Company. Beater-arms for animal cleaning or dehairing machines. No. 954,431; Apr. 12; Sp. p. 1547; Gaz. vol. 153; p. 285.
Hannaford, William P., Newton, assignor to The Clark Manufacturing Company, Boston, Mass. Garment-clasp. No. 964,968; July 19; Sp. p. 4283; Gaz. vol. 156; p. 715.
Hannagan, Paul, Lawrence, Mass. Snow-plow. No. 963,369; July 5; Sp. p. 810; Gaz. vol. 156; p. 120.
Hannah, George O., St. John, New Brunswick, Canada. Blacking device. No. 967,764; Aug. 16; Sp. p. 4091; Gaz. vol. 157; p. 701.
Hannah, Hugh A., *et al.* (See Hannah, William H., assignor.)
Hannah, William H., assignor of one-sixth to H. A. Hannah, Yelk, and one-sixth to J. F. Judy, Bartow, W. Va. Wire-stretcher. No. 969,951; Sept. 13; Sp. p. 1742; Gaz. vol. 158; p. 299.
Hannaman, Fredrick, Blue Earth, Minn. Power-transmitting mechanism for wind-motors. No. 950,750; Mar. 1; Sp. p. 623; Gaz. vol. 152; p. 99.
Hannan, Thomas F., Schenectady, N. Y. Beam-compass. No. 972,106; Oct. 4; Sp. p. 1275; Gaz. vol. 159; p. 216.

Alphabetical list of patentees—Continued.

Hannay, James B., Cove Castle, Scotland, and S. B. Wilson, Westminster, London, England. Manufacture of white sulfate-of-lead pigment. No. 955,396; Apr. 19; Sp. p. 3685; Gaz. vol. 153; p. 648.

Hanneman, Robert F., Detroit, Mich. Cement-mold. No. 975,615; Nov. 15; Sp. p. 3419; Gaz. vol. 160; p. 580.

Hannig, Estelle, San Mateo, Cal. Device for removing facial lines and defects. No. 971,373; Sept. 27; Sp. p. 4730; Gaz. vol. 158; p. 826.

Hannigan, John J., Chicago, Ill. Faucet. No. 956,082; Apr. 26; Sp. p. 5186; Gaz. vol. 153; p. 913.

Hannold, Ed J., Mexico, Mo., assignor, by mesne assignments, to C. M. Clay. Hose-coupling. No. 979,481; Dec. 27; Sp. p. 4448; Gaz. vol. 161; p. 786.

Hannon, James J., Logansport, Ind., assignor to W. P. Murphy, St. Louis, Mo. Uncoupling-lever. No. 949,824; Feb. 22; Sp. p. 4282; Gaz. vol. 151; p. 772.

Hannula, Klaus A. (See Himottu, Albert, assignor.)

Hano, Philip, New York, N. Y. Autographic register. No. 965,708; July 26; Sp. p. 5867; Gaz. vol. 156; p. 996.

Hanrahan, Joseph F., and H. A. Wende, Buffalo, N. Y.; said Wende assignor to said Hanrahan. Evaporator. No. 948,322; Feb. 8; Sp. p. 1127; Gaz. vol. 151; p. 207.

Hanscom, Frank Z., Chicago, Ill. Artificial tooth. No. 976,798; Nov. 22; Sp. p. 5970; Gaz. vol. 160; p. 1008.

Hansel, Heinrich C., Giessen, Germany. Percussive tool. No. 966,329; Aug. 2; Sp. p. 1007; Gaz. vol. 157; p. 163.

Hansell-Elcock Company. (See Olson, Julius, assignor.)

Hansell, Robert B., Baltimore, Md. Clock and watch. No. 961,957; June 21; Sp. p. 3577; Gaz. vol. 155; p. 630.

Hansell, Robert C., Muskogee, Okla. Concrete construction. No. 973,501; Oct. 25; Sp. p. 4386; Gaz. vol. 159; p. 767.

Hansen, Alfred, Gotham, Wis. Pan-handle. No. 978,741; Dec. 13; Sp. p. 2870; Gaz. vol. 161; p. 486.

Hansen, Amund, Christiania, assignor to H. Stub, Christiania, and T. Qviller, Lilleströmmen, Norway. Clamping device. No. 973,654; Oct. 25; Sp. p. 4715; Gaz. vol. 159; p. 820.

Hansen, Anders, Philadelphia, Pa. Railway-car. No. 970,047; Sept. 13; Sp. p. 1958; Gaz. vol. 158; p. 332.

Hansen, August, Vienna, Austria-Hungary. Washing and steeping malt as well as for grinding washed and steeped malt. No. 966,910; Aug. 9; Sp. p. 2333; Gaz. vol. 157; p. 383.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Mounting for drills. No. 949,427; Feb. 15; Sp. p. 3470; Gaz. vol. 151; p. 606.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Mounting for drills. No. 956,850; May 3; Sp. p. 767; Gaz. vol. 154; p. 121.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Mounting for drills. No. 977,734; Dec. 6; Sp. p. 693; Gaz. vol. 161; p. 108.

Hansen, Christian, San Antonio, Tex. Nail. No. 975,235; Nov. 8; Sp. p. 2620; Gaz. vol. 160; p. 423.

Hansen, Ebbe J., Exira, Iowa. Cover for culinary utensils. No. 968,557; Aug. 30; Sp. p. 5799; Gaz. vol. 157; p. 1021.

Hansen, Edward M. E., St. Louis, Mo. Chemical fire-engine. No. 957,054; May 3; Sp. p. 1193; Gaz. vol. 154; p. 189.

Hansen, Gustav A., Christiania, Norway. Pistol. No. 965,386; July 26; Sp. p. 5148; Gaz. vol. 156; p. 883.

Hansen, Hans A., Frederiksberg, and M. E. Petersen, Copenhagen, Denmark. Warp-uniting mechanism. No. 954,862; Apr. 12; Sp. p. 2561; Gaz. vol. 153; p. 436.

Hansen, Haus C., *et al.* (See Feller, Adolph F., assignor.)

Hansen, Hans P., Denver, Colo. Adjustable high chair. No. 957,055; May 3; Sp. p. 1195; Gaz. vol. 154; p. 190.

Hansen, Hansine K., New York, N. Y. Parasol-bag. No. 980,098; Dec. 27; Sp. p. 5800; Gaz. vol. 161; p. 995.

Hansen, Heber K., assignor of one-half to R. Lafount, Logan, Utah. Spring door-hinge. No. 962,426; June 28; Sp. p. 4614; Gaz. vol. 155; p. 815.

Hansen, John C., Jr., Newark, N. J. Plumb-level. No. 977,735; Dec. 6; Sp. p. 694; Gaz. vol. 161; p. 108.

Hansen, John M., Pittsburg, Pa. Reworking car-wheels. No. 969,275; Sept. 6; Sp. p. 263; Gaz. vol. 158; p. 43.

Hansen, John M., assignor to Standard Steel Car Company, Pittsburg, Pa. Box-car. No. 961,773; June 21; Sp. p. 3169; Gaz. vol. 155; p. 569.

Hansen, John P., Suring, Wis. Ratchet-wrench. No. 973,779; Oct. 25; Sp. p. 4966; Gaz. vol. 159; p. 863.

Hansen, John S., Brockton, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Shoe-tree. No. 963,370; July 5; Sp. p. 815; Gaz. vol. 156; p. 120.

Hansen, John S., Medford, Mass., assignor, by mesne assignments, to O. A. Miller Treeing Machine Company, Portland, Me. Holder for boot and shoe forms. No. 979,851; Dec. 27; Sp. p. 5279; Gaz. vol. 161; p. 914.

Hansen, Marius H., Chicago, Ill. Spring-scale. No. 967,188; Aug. 16; Sp. p. 2927; Gaz. vol. 157; p. 506.

Hansen, Niels A., J. F. Lehmann, and N. Jensen, Seattle, Wash. Plasterer's hawk. No. 963,143; July 5; Sp. p. 303; Gaz. vol. 156; p. 42.

Hansen, Niels M., assignor to De Vilbiss Plier Company, Dundee, Mich. Tool. No. 958,807; May 24; Sp. p. 5203; Gaz. vol. 154; p. 877.

Hansen, Niels M., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale. No. 960,905; June 7; Sp. p. 1337; Gaz. vol. 155; p. 225.

Hansen, Otto E., Perth Amboy, N. J. Gas-log. No. 948,561; Feb. 8; Sp. p. 1652; Gaz. vol. 151; p. 288.

Hansen, Peter J., assignor to Dansk Patent Kontor, Aktieselskab, Copenhagen, Denmark. Apparatus for a round game. No. 968,558; Aug. 30; Sp. p. 5800; Gaz. vol. 157; p. 1021.

Hansen, Rasmus P., Knob, Cal. Pincers. No. 966,015; Aug. 2; Sp. p. 368; Gaz. vol. 157; p. 59.

Hansen, William A., San Francisco, Cal. Gas-engine-starting device. No. 977,007; Nov. 29; Sp. p. 6485; Gaz. vol. 160; p. 1106.

Hansen, William F., Des Moines, Iowa. Furnace-casing. No. 971,269; Sept. 27; Sp. p. 4533; Gaz. vol. 158; p. 793.

Hanses, Frank. (See O'Donnell and Hanses.)

Hansford, Hallie D., Sylvester, Ga. Foot-rest for vehicles. No. 962,637; June 28; Sp. p. 5073; Gaz. vol. 155; p. 887.

Hansley, Edwin M., and H. Will, Williamsburg, Mich. Fruit-picker. No. 971,005; Sept. 20; Sp. p. 3958; Gaz. vol. 158; p. 677.

Hanson, Albert T., Antigo, and G. J. Hanson, Milwaukee, Wis. Switch-lock. No. 964,910; July 19; Sp. p. 4173; Gaz. vol. 156; p. 695.

Hanson, Alfred G., Willmar, Minn. Door-holder. No. 953,662; Mar. 29; Sp. p. 6632; Gaz. vol. 152; p. 1183.

Hanson, Amandus, Caney, Kans. Glass-heating apparatus. No. 959,057; May 24; Sp. p. 5726; Gaz. vol. 154; p. 962.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine. No. 945,387; Jan. 4; Sp. p. 830; Gaz. vol. 150; p. 129.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Mechanism for actuating cross-slides. No. 945,453; Jan. 4; Sp. p. 954; Gaz. vol. 150; p. 150.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Feed-arresting device. No. 945,454; Jan. 4; Sp. p. 955; Gaz. vol. 150; p. 150.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Reducing-machine. No. 945,455; Jan. 4; Sp. p. 956; Gaz. vol. 150; p. 151.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine. No. 945,456; Jan. 4; Sp. p. 958; Gaz. vol. 150; p. 151.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Machine for milling spirals. No. 948,696; Feb. 8; Sp. p. 1944; Gaz. vol. 151; p. 333.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Gearing. No. 948,697; Feb. 8; Sp. p. 1946; Gaz. vol. 151; p. 334.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Tool-holder. No. 948,698; Feb. 8; Sp. p. 1949; Gaz. vol. 151; p. 334.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Steady-rest. No. 952,193; Mar. 15; Sp. p. 3481; Gaz. vol. 152; p. 627.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-reducing machine. No. 955,642; Apr. 19; Sp. p. 4210; Gaz. vol. 153; p. 731.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Relieving attachment for lathes. No. 955,643; Apr. 19; Sp. p. 4222; Gaz. vol. 153; p. 732.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Tool-holder. No. 963,144; July 5; Sp. p. 304; Gaz. vol. 156; p. 42.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Tool-holder. No. 965,893; Aug. 2; Sp. p. 104; Gaz. vol. 157; p. 17.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Mechanism for adjusting cross-slides for taper attachments. No. 968,050; Aug. 23; Sp. p. 4695; Gaz. vol. 157; p. 820.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Spring-chuck. No. 968,051; Aug. 23; Sp. p. 4696; Gaz. vol. 157; p. 821.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Tool-support for turret-lathes. No. 968,052; Aug. 23; Sp. p. 4698; Gaz. vol. 157; p. 821.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Turret-lathe. No. 971,886; Oct. 4; Sp. p. 796; Gaz. vol. 159; p. 139.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine. No. 971,887; Oct. 4; Sp. p. 807; Gaz. vol. 159; p. 139.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine. No. 974,056; Oct. 25; Sp. p. 5532; Gaz. vol. 159; p. 959.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Face-plate-holding means. No. 974,057; Oct. 25; Sp. p. 5536; Gaz. vol. 159; p. 960.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Belt-shifter. No. 975,356; Nov. 8; Sp. p. 2870; Gaz. vol. 160; p. 463.

Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Grinding-machine. No. 975,382; Nov. 8; Sp. p. 2930; Gaz. vol. 160; p. 473.

Alphabetical list of patentees—Continued.

Hanson, Carl A., Seattle, Wash. Water-power mining-drill. No. 977,302; Nov. 29; Sp. p. 7098; Gaz. vol. 160; p. 1208.
Hanson, Charles A., Donovan, Ill. Rope-supporting device for hay-elevators. No. 979,665; Dec. 27; Sp. p. 4851; Gaz. vol. 161; p. 851.
Hanson, Christ. (See Hassell and Hanson.)
Hanson, Fred P., San Francisco, Cal., assignor to The United States Stone Saw Company, Tucson, Ariz. Stone-saw. No. 947,969; Feb. 1; Sp. p. 401; Gaz. vol. 151; p. 64.
Hanson, Fred P., San Francisco, Cal., assignor to The United States Stone Saw Company, Tucson, Ariz. Stone-saw. No. 947,989; Feb. 1; Sp. p. 437; Gaz. vol. 151; p. 70.
Hanson, Fred P., San Francisco, and H. W. Arnold, Sacramento, Cal., assignors to The United States Stone Saw Company, Tucson, Ariz. Stone-saw. No. 971,746; Oct. 4; Sp. p. 499; Gaz. vol. 159; p. 87.
Hanson, Fredrik, Rome, Ga. Adjustable coupling. No. 948,221; Feb. 1; Sp. p. 903; Gaz. vol. 151; p. 148.
Hanson, Freeman, Hollis Center, Me. Rotary harrow. No. 967,189; Aug. 16; Sp. p. 2930; Gaz. vol. 157; p. 506.
Hanson, Gehart J., Buxton, N. D. Hanger for sliding doors. No. 967,765; Aug. 16; Sp. p. 4092; Gaz. vol. 157; p. 701.
Hanson, George A. (See Anderson and Hanson.)
Hanson, George J. (See Hanson, Albert T. and G. J.)
Hanson, Gustaf W., Marquette, Kans. Broom-corn knife. No. 972,187; Oct. 11; Sp. p. 1477; Gaz. vol. 159; p. 263.
Hanson, Haaken P., Albert Lea, Minn. Hanger for elevated rails. No. 950,103; Feb. 22; Sp. p. 4938; Gaz. vol. 151; p. 869.
Hanson, Haaken P., Albert Lea, Minn. Hay-sling. No. 964,250; July 12; Sp. p. 2656; Gaz. vol. 156; p. 438.
Hanson, Haaken P., Albert Lea, Minn. Elevated railway. No. 968,939; Aug. 30; Sp. p. 6611; Gaz. vol. 157; p. 1151.
Hanson, Hans C., Laclede, Mo. Corn-planter. No. 963,548; July 5; Sp. p. 1173; Gaz. vol. 156; p. 180.
Hanson, Hans J., Litchville, N. D. Mail-box support. No. 949,231; Feb. 15; Sp. p. 3032; Gaz. vol. 151; p. 538.
Hanson, Hans J., assignor to Ann Arbor Machine Company, Ann Arbor, Mich. Baling-press. No. 971,606; Oct. 4; Sp. p. 214; Gaz. vol. 159; p. 37.
Hanson, Hans N., Henry, S. D. Quack-grass digger. No. 968,658; Aug. 30; Sp. p. 6019; Gaz. vol. 157; p. 1057.
Hanson, Harry D., East Boston, Mass. Electric alarm. No. 967,766; Aug. 16; Sp. p. 4095; Gaz. vol. 157; p. 701.
Hanson, John H., Chicago, Ill. Electric fuse-plug. No. 949,630; Feb. 15; Sp. p. 3857; Gaz. vol. 151; p. 672.
Hanson, Joseph T., Sioux Falls, S. D. Band-cutter for threshing-machines. No. 970,920; Sept. 20; Sp. p. 3806; Gaz. vol. 158; p. 649.
Hanson, Louis, Cottonwood, Idaho. Bag-holder. No. 968,349; Aug. 23; Sp. p. 5355; Gaz. vol. 157; p. 924.
Hanson, Martin, assignor to Louis Hanson Company, Chicago, Ill. Hydraulic chair. No. 977,736; Dec. 6; Sp. p. 698; Gaz. vol. 161; p. 109.
Hanson, Nels T., Hawarden, Iowa. Compressed-steam cooker. No. 952,112; Mar. 15; Sp. p. 3339; Gaz. vol. 152; p. 601.
Hanson, Paul, and S. Matney, Rockford, Wash. Mail-bag crane. No. 946,774; Jan. 18; Sp. p. 3941; Gaz. vol. 150; p. 655.
Hanson, Paul, and S. Matney, Rockford, Wash. Mail-bag crane. No. 977,627; Dec. 6; Sp. p. 473; Gaz. vol. 161; p. 72.
Hanson, Peter N. (See Peterson, Guy J., assignor.)
Hanson, Samuel L., Albert Lea, Minn. Hay-carrier. No. 947,384; Jan. 25; Sp. p. 5297; Gaz. vol. 150; p. 890.
Hanson, Samuel L., Albert Lea, Minn. Trolley-shifter. No. 969,754; Sept. 6; Sp. p. 1294; Gaz. vol. 158; p. 207.
Hanson & Van Winkle Co. (See King, Willis R., assignor.)
Hansson, Carl, Belt, Mont. Machine for pointing building-walls. No. 951,242; Mar. 8; Sp. p. 1568; Gaz. vol. 152; p. 282.
Hanstein, Hermann, Chicago, Ill. Educational appliance. No. 951,606; Mar. 8; Sp. p. 2312; Gaz. vol. 152; p. 401.
Hanstine, Harry S. (See Thompson and Hanstine.)
Hanzlik, John E., Wonewoc, Wis. Negotiable interest-bearing instrument. No. 967,016; Aug. 9; Sp. p. 2554; Gaz. vol. 157; p. 420.
Hanzsche, Edward. (See Hollingsworth, William, assignor.)
Happe, Arthur H., assignor of one-half to S. C. Mumford, Detroit, Mich. Electric sad-iron. No. 979,291; Dec. 20; Sp. p. 4076; Gaz. vol. 161; p. 701.
Happle, George W. (See Greenberg, Samuel, assignor.)
Harbaugh, William F., and C. F. Smith, Lakota, N. D. Vegetable-cutter. No. 947,076; Jan. 18; Sp. p. 4591; Gaz. vol. 150; p. 758.
Harbeck, Jervis R., assignor, by mesne assignments, to Detroit Can Company, Detroit, Mich. Can-top. No. 960,637; June 7; Sp. p. 817; Gaz. vol. 155; p. 134.
Harbeck, Jervis R., assignor, by mesne assignments, to Detroit Can Company, Detroit, Mich. Container-closure. No. 970,496; Sept. 20; Sp. p. 2882; Gaz. vol. 158; p. 504.
Harbeck, Marx, Davenport, Iowa. Sewer-cleaning device. No. 947,990; Feb. 1; Sp. p. 439; Gaz. vol. 151; p. 71.
Harbin, John D. (See McCallum, Wilks W., assignor.)
Harbolt, Curtis L., assignor to Parlin and Orendorff Company, Canton, Ill. Lister-plow. No. 965,295; July 26; Sp. p. 4944; Gaz. vol. 156; p. 853.
Harbour, John L. (See Smith, James O., assignor.)
Harbrecht, William F., *et al.* (See Millspaugh, William H., assignor.) (Reissue.)
Harbridge, Herbert C., Margo, Saskatchewan, Canada. Measure. No. 960,906; June 7; Sp. p. 1338; Gaz. vol. 155; p. 225.
Hard, Charles T., East Liverpool, Ohio. Adjustable support for books, papers, &c. No. 958,637; May 17; Sp. p. 4828; Gaz. vol. 154; p. 793.
Hard Manufacturing Company. (See Dyett and Hulpian, assignors.)
Hardart, Frank, *et al.* (See Anderson, John, assignor.)
Harden, George M., Philadelphia, Pa., assignor to The Philadelphia Pipe Bending Company. Condenser. No. 962,427; June 28; Sp. p. 4615; Gaz. vol. 155; p. 815.
Härdén, Johannes, London, England, Electric furnace. No. 977,303; Nov. 29; Sp. p. 7100; Gaz. vol. 160; p. 1208.
Härdén, Johannes, assignor to The Grondal Kjellin Company, Limited, London, England. Electric furnace. No. 967,908; Aug. 23; Sp. p. 4381; Gaz. vol. 157; p. 772.
Härdén, Johannes, assignor to The Grondal Kjellin Company, Limited, London, England. Electric furnace. No. 967,909; Aug. 23; Sp. p. 4384; Gaz. vol. 157; p. 773.
Härdén, Petrus, Stockholm, Sweden, assignor to American Gröndal, Kjellin Company, New York, N. Y. Method and means for feeding the trucks in channel-furnaces. No. 946,355; Jan. 11; Sp. p. 2951; Gaz. vol. 150; p. 490.
Harders, Hartwig M. A., Milwaukee, Wis., assignor, by mesne assignments, to S. Stein, Chicago, Ill. Pasteurizing apparatus. (Reissue.) No. 13,188; Dec. 27; Sp. p. 6014; Gaz. vol. 161; p. 1025.
Hardgrave, Robert G. (See Adair and Hardgrave.)
Hardgrave, Robert G., Tucumcari, N. Mex. Fused distributing-board and cross-connecting rack. No. 958,808; May 24; Sp. p. 5204; Gaz. vol. 154; p. 878.
Hardie, Jeffie W., Sourlake, assignor of one-fifth to Smith, Crawford & Sonfield and Mackey, Jefferson county, Tex. Water-heater. No. 953,690; Apr. 5; Sp. p. 22; Gaz. vol. 153; p. 7.
Hardie, William M., *et al.* (See Utley, John H., assignor.)
Hardin, Cornelious C., La Fayette, Ga. Insulator. No. 955,065; Apr. 12; Sp. p. 2968; Gaz. vol. 153; p. 503.
Hardin, Ferguson S., Los Angeles, Cal. Lever-locking device. No. 968,659; Aug. 30; Sp. p. 6021; Gaz. vol. 157; p. 1057.
Hardin, Joseph P., Pawnee City, Nebr. Composition for the manufacture of a tile. No. 965,894; Aug. 2; Sp. p. 105; Gaz. vol. 157; p. 18.
Hardin, Joseph P., Pawnee City, Nebr. System of sub-irrigation. No. 965,895; Aug. 2; Sp. p. 106; Gaz. vol. 157; p. 18.
Harding, Charles K., Chicago, Ill. Inverted incandescent mantle. No. 960,638; June 7; Sp. p. 818; Gaz. vol. 155; p. 134.
Harding, Charles K., Chicago, Ill. Process and apparatus for producing light from hydrocarbons. No. 969,368; Sept. 6; Sp. p. 460; Gaz. vol. 158; p. 75.
Harding, Charles K., Chicago, Ill. Hydrocarbon lighting system. No. 976,127; Nov. 15; Sp. p. 4458; Gaz. vol. 160; p. 754.
Harding, Edwin L. (See Woods and Harding.)
Harding, Elmon D., Montevideo, Minn. Truck-brake. No. 961,494; June 14; Sp. p. 2596; Gaz. vol. 155; p. 452.
Harding, George R., Utica, N. Y. Truss. No. 953,691; Apr. 5; Sp. p. 23; Gaz. vol. 153; p. 7.
Harding, Henry M., New York, N. Y. Overhead monorail trackway system. No. 961,348; June 14; Sp. p. 2287; Gaz. vol. 155; p. 404.
Harding, John, Jr., assignor to J. T. Landis, Nashville, Tenn. Clutch mechanism. No. 972,693; Oct. 11; Sp. p. 2571; Gaz. vol. 159; p. 437.
Harding, Kathryn D., Evanston, Ill. Attachment for crutches. No. 970,497; Sept. 20; Sp. p. 2883; Gaz. vol. 158; p. 504.
Harding, Pelham, *et al.* (See Eynon, William D., assignor.)
Harding, Sherren B. D., London, England. Internal-combustion engine. No. 945,232; Jan. 4; Sp. p. 468; Gaz. vol. 150; p. 77.
Harding, Simon J., Harrisburg, Pa. Washing-machine. No. 971,993; Oct. 4; Sp. p. 1071; Gaz. vol. 159; p. 179.
Harding, Thomas, San Jose, Cal. Hose-clamp. No. 972,372; Oct. 11; Sp. p. 1855; Gaz. vol. 159; p. 326.
Harding, William T., Raleigh, N. C. Logging-car. No. 971,444; Sept. 27; Sp. p. 4852; Gaz. vol. 158; p. 849.
Hardinge Company, The. (See Brown, Cornelia J., assignor.)
Hardinge, Henry H., assignor to Wiebking, Hardinge & Co., Chicago, Ill. Mold for automatic type-casting machines. No. 954,028; Apr. 5; Sp. p. 691; Gaz. vol. 153; p. 121.
Hardinge, Henry H., assignor to Wiebking, Hardinge & Co., Chicago, Ill. Providing nick projections on type-mold body-blocks. No. 973,191; Oct. 18; Sp. p. 3736; Gaz. vol. 159; p. 638.

Hardman, Charles C., assignor to The Barnes Manufacturing Company, Mansfield, Ohio. Sink or the like. No. 945,457; Jan. 4; Sp. p. 960; Gaz. vol. 150; p. 151.
Hardman, George E., East Ham, London, assignor to Caribonum Company Limited, London, England. Paper-feeding device. No. 976,735; Nov. 22; Sp. p. 5816; Gaz. vol. 160; p. 986.
Hardman, Samuel, Holyoke, Mass. Apparatus for providing alum solution for paper-makers' use. No. 979,482; Dec. 27; Sp. p. 4450; Gaz. vol. 161; p. 786.
Hards, Edward, assignor of one-half to L. D. Coggins, Phoenix, Ariz. Mechanical movement. No. 946,671; Jan. 18; Sp. p. 3710; Gaz. vol. 150; p. 620.
Hardsocg, Martin, Ottumwa, Iowa. Bit-chuck and bit. No. 945,735; Jan. 4; Sp. p. 1583; Gaz. vol. 150; p. 243.
Hardsocg, Martin, Ottumwa, Iowa. Air-feed for drills. No. 966,911; Aug. 9; Sp. p. 2335; Gaz. vol. 157; p. 383.
Hardsocg, Martin, Ottumwa, Iowa. Earth-auger. No. 968,471; Aug. 23; Sp. p. 5593; Gaz. vol. 157; p. 965.
Hardsocg, Martin, Ottumwa, Iowa. Drill and drill-shank. No. 968,472; Aug. 23; Sp. p. 5596; Gaz. vol. 157; p. 966.
Hardsocg Mfg. Co. (See Edwards, William M., assignor.)
Hardy, Edward K., Akron, Ohio. Steering-wheel for automobiles. No. 960,907; June 7; Sp. p. 1339; Gaz. vol. 155; p. 225.
Hardy, Frank H., Andover, Mass. Dabbing-brush. No. 964,103; July 12; Sp. p. 2374; Gaz. vol. 156; p. 389.
Hardy, Frederick, Columbia, Tenn. Nut-lock. No. 978,021; Dec. 6; Sp. p. 1292; Gaz. vol. 161; p. 207.
Hardy, Frederick, Columbia, Tenn., assignor to R. E. Haynes, trustee, Columbia, Tenn. Device for locking the breech-blocks of repeating shotguns. No. 946,999; Jan. 18; Sp. p. 4450; Gaz. vol. 150; p. 733.
Hardy, George H., Twickenham, England. Rotary engine. No. 959,856; May 31; Sp. p. 7407; Gaz. vol. 154; p. 1255.
Hardy, John N., Columbus, Ohio. Water-motor. No. 958,492; May 17; Sp. p. 4549; Gaz. vol. 154; p. 746.
Hardy, Joseph H., Ipswich, Mass. Hose-coupling. No. 969,160; Sept. 6; Sp. p. 17; Gaz. vol. 158; p. 6.
Hardy, Paul, Walnut Springs, Tex. Well-casing. No. 965,181; July 26; Sp. p. 4710; Gaz. vol. 156; p. 815.
Hardy, Paul, Walnut Springs, Tex. Tool for lowering and raising well-tubes. No. 965,182; July 26; Sp. p. 4710; Gaz. vol. 156; p. 815.
Hardy, Robert W., assignor of one-half to H. E. Adams, Pittsburg, Pa. Hinge. No. 968,473; Aug. 23; Sp. p. 5597; Gaz. vol. 157; p. 966.
Hardy, T. B., *et al.* (See Noland, William H., assignor.)
Hardy, Walter V., Indianola, Miss. Match-scratching device. No. 955,397; Apr. 19; Sp. p. 3688; Gaz. vol. 153; p. 648.
Hare, Donald W., Los Angeles, Cal. Timer. No. 961,407; June 14; Sp. p. 2386; Gaz. vol. 155; p. 422.
Hare, Wilfred A., assignor to The Standard Engineering Company, Toronto, Ontario, Canada. Hoist. No. 963,435; July 5; Sp. p. 952; Gaz. vol. 156; p. 141.
Hare, William L., and E. E. Winne, Hamilton, Mo. Rotary blotter for penholders. No. 957,329; May 10; Sp. p. 1804; Gaz. vol. 154; p. 315.
Hargie, Thomas, assignor, by mesne assignments, to E. Cook, Kalamazoo, Mich. Drilling-machine. No. 979,161; Dec. 20; Sp. p. 3800; Gaz. vol. 161; p. 658.
Hargrave, Charles F., Winthrop, Mass. Composite roller. No. 979,666; Dec. 27; Sp. p. 4852; Gaz. vol. 161; p. 851.
Hargraves, William H. (See Miller, Steinberger, and Hargraves.)
Hargraves, William H., and M. M. Miller, assignors of one-third to C. M. W. Keck, Allentown, Pa. Mail-handling apparatus. No. 957,330; May 10; Sp. p. 1805; Gaz. vol. 154; p. 315.
Hargreaves, George, Jr., Detroit, Mich. Draft-rigging. No. 965,183; July 26; Sp. p. 4712; Gaz. vol. 156; p. 816.
Hargreaves, George E., Oregon City, Oreg. Drum fire-plug. No. 974,265; Nov. 1; Sp. p. 415; Gaz. vol. 160; p. 61.
Hargreaves, Thomas. (See Marshall and Hargreaves.)
Haring, Sarah A., Chicago, Ill. Flat-iron heater. No. 974,137; Nov. 1; Sp. p. 60; Gaz. vol. 160; p. 13.
Harker, Albert E., Windsor, N. J. Double envelop. No. 956,343; Apr. 26; Sp. p. 5766; Gaz. vol. 153; p. 1003.
Harker, Frank L., assignor of one-half to J. W. Ramsey, Butler, La. Screw-cutting stock and die. No. 959,736; May 31; Sp. p. 7150; Gaz. vol. 154; p. 1213.
Harkins, Effie R., Gurnee, Ala. Blasting-barrel. No. 970,372; Sept. 13; Sp. p. 2619; Gaz. vol. 158; p. 441.
Harkins, Francis W., assignor to Laura R. Fraser, Chicago, Ill. Fabric-clasp. No. 965,143; July 19; Sp. p. 4625; Gaz. vol. 156; p. 771.
Harkins, Fred, Peru, Kans. Combined fish-hook, sinker, and line-fastener. No. 952,615; Mar. 22; Sp. p. 4383; Gaz. vol. 152; p. 800.
Harkleroad, Andrew R., *et al.* (See Watterson, John S., assignor.)
Harkness, Louis T., Jamestown, N. Y. Hair-pin. No. 971,994; Oct. 4; Sp. p. 1074; Gaz. vol. 159; p. 180.
Harkness, William E., East Orange, N. J., assignor, by mesne assignments, to The Dean Electric Company. Telephone-transmitter. (Reissue.) No. 13,146; Aug. 23; Sp. p. 5704; Gaz. vol. 157; p. 983.
Harkom, John W., Melbourne, Quebec, Canada. Valve. No. 978,288; Dec. 13; Sp. p. 1893; Gaz. vol. 161; p. 331.
Harlan, George W., Otterville, Mo. Mail-bag catcher and deliverer. No. 963,145; July 5; Sp. p. 306; Gaz. vol. 156; p. 42.
Harlan, Wilson B. (See Platt and Harlan.)
Harland, Allen P., Tupelo, Miss. Ink-supplying means for printing-presses. No. 956,083; Apr. 26; Sp. p. 5188; Gaz. vol. 153; p. 914.
Harland, Allen P., Tupelo, Miss. Printing-press. No. 956,084; Apr. 26; Sp. p. 5193; Gaz. vol. 153; p. 914.
Harland, William H., Jr. (See Knickerbocker and Harland.)
Harle, Ralph J., Tanta, Egypt. Spark-arrester and draft-regulator for locomotives. No. 950,447; Feb. 22; Sp. p. 5615; Gaz. vol. 151; p. 984.
Harley-Davidson Company. (See Harley, William S., assignor.)
Harley-Davidson Motor Company. (See Harley, William S., assignor.)
Harley, William M., assignor to J. Weerts, St. Louis, Mo. Pneumatic tire. No. 949,472; Feb. 15; Sp. p. 3557; Gaz. vol. 151; p. 619.
Harley, William S., Milwaukee, Wis. Variable-speed gearing. No. 978,880; Dec. 20; Sp. p. 3132; Gaz. vol. 161; p. 556.
Harley, William S., Milwaukee, Wis. Vehicle-frame. No. 978,881; Dec. 20; Sp. p. 3137; Gaz. vol. 161; p. 557.
Harley, William S., Milwaukee, Wis. Spring-seat post. No. 979,483; Dec. 27; Sp. p. 4452; Gaz. vol. 161; p. 787.
Harley, William S., Milwaukee, Wis. Lubricator system. No. 979,484; Dec. 27; Sp. p. 4454; Gaz. vol. 161; p. 787.
Harley, William S., assignor to Harley-Davidson Company, Milwaukee, Wis. Motor-cycle stand. No. 946,037; Jan. 11; Sp. p. 2282; Gaz. vol. 150; p. 379.
Harley, William S., assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Belt-tightener for motor-cycles. No. 973,426; Oct. 18; Sp. p. 4218; Gaz. vol. 159; p. 718.
Harlin, George C., Ottumwa, Iowa. Car-coupling. No. 976,361; Nov. 22; Sp. p. 5051; Gaz. vol. 160; p. 857.
Harlin, William, and S. Westerhausen, Piper City, Ill. Grain-harvester. No. 963,220; July 5; Sp. p. 496; Gaz. vol. 156; p. 69.
Harlow, Harry B. (See McPike and Harlow.)
Harlow, James S., Mineral, Va. Rock-drill. No. 955,591; Apr. 19; Sp. p. 4087; Gaz. vol. 153; p. 713.
Harman, David H., Spokane, Wash. Animal-trap. No. 960,170; May 31; Sp. p. 8100; Gaz. vol. 154; p. 1362.
Harman, Effie, Topsey, Tex. Lard-press. No. 964,018; July 12; Sp. p. 2193; Gaz. vol. 156; p. 360.
Harman, James G., Pittsburg, Pa. Removable saw-handle. No. 950,390; Feb. 22; Sp. p. 5510; Gaz. vol. 151; p. 965.
Harman John H. (See Wilson and Harman.)
Harman, Michael, Youngstown, Pa. Cuspidor. No. 966,330; Aug. 2; Sp. p. 1008; Gaz. vol. 157; p. 163.
Harmeyer, Cyrus L. (See Bowman and Harmeyer.)
Harmison, Henry P. (See Harmison, James and H. P.)
Harmison, James and H. P., Romney, W. Va. Lard-cutter. No. 968,940; Aug. 30; Sp. p. 6614; Gaz. vol. 157; p. 1152.
Harmon, Cathorine P., Evanston, Ill. Electric curling-iron heater. No. 950,620; Mar. 1; Sp. p. 333; Gaz. vol. 152; p. 54.
Harmon, Frank L., Beverly, Mass. Stringed musical instrument. No. 960,317; June 7; Sp. p. 153; Gaz. vol. 155; p. 29.
Harmon, John, Okey, Ohio. Stirrup. No. 945,524; Jan. 4; Sp. p. 1120; Gaz. vol. 150; p. 172.
Harmon, Nathaniel O., Los Angeles, Cal. Wave-motor. No. 970,048; Sept. 13; Sp. p. 1959; Gaz. vol. 158; p. 333.
Harmon, William, Tiffin, Ohio. Well-screen. No. 963,549; July 5; Sp. p. 1175; Gaz. vol. 156; p. 180.
Harmon, William E., assignor of one-half to J. B. Brockman, Houston, Tex. Mail-box signal. No. 968,151; Aug. 23; Sp. p. 4930; Gaz. vol. 157; p. 854.
Harms, Carl T., Fayetteville, Tenn. Stovepipe-cleaner. No. 946,129; Jan. 11; Sp. p. 2456; Gaz. vol. 150; p. 410.
Harmuth, Gustave, St. Louis, Mo. Sash-lock. No. 956,963; May 3; Sp. p. 1016; Gaz. vol. 154; p. 159.
Harn, Harry R., Denver, Colo. Street-sweeping machine. No. 953,201; Mar. 29; Sp. p. 5642; Gaz. vol. 152; p. 1025.
Harner, Philip H., Dooms, Va. Telephone cut-out. No. 979,292; Dec. 20; Sp. p. 4078; Gaz. vol. 161; p. 701.
Harnischfeger, August, New York, N. Y. Suspension-clamp for meat and bacon. No. 979,945; Dec. 27; Sp. p. 5468; Gaz. vol. 161; p. 945.
Harold, James J., Jersey City, N. J., assignor, by mesne assignments, to E. A. Bern, Chicago, Ill. Metal piling. No. 949,473; Feb. 15; Sp. p. 3558; Gaz. vol. 151; p. 620.
Harp, Charles A., Sacramento, Cal., assignor to Harp Railway Motor Car Company. Motor-car. No. 946,855; Jan. 18; Sp. p. 4135; Gaz. vol. 150; p. 684.
Harp Railway Motor Car Company. (See Harp, Charles A., assignor.)
Harpain, Johann J., U. S. Navy. Steam-trap. No. 975,357; Nov. 8; Sp. p. 2872; Gaz. vol. 160; p. 463.
Harper, Charles O., Omaha, Nebr. Adjustable curve-ruler. No. 950,285; Feb. 22; Sp. p. 5321; Gaz. vol. 151; p. 933.
Harper, Harold E., Atwood, Kans. Lumber-piler. No. 979,293; Dec. 20; Sp. p. 4080; Gaz. vol. 161; p. 702.

Alphabetical list of patentees—Continued.

Harper, James M., assignor to The Harper Supply Company, Chicago, Ill. Sad-iron. No. 951,438; Mar. 8; Sp. p. 1985; Gaz. vol. 152; p. 345.
Harper, James M., Chicago, Ill., assignor to Harper Supply Company. Sad-iron. No. 958,638; May 17; Sp. p. 4829; Gaz. vol. 154; p. 793.
Harper, James M., Chicago, Ill., assignor to The Harper Supply Company. Sad-iron handle. No. 963,709; July 5; Sp. p. 1498; Gaz. vol. 156; p. 233.
Harper, John A. (See Cable, Daniel J., assignor.)
Harper, Robert E., Nashville, Tenn. Display-rack for chairs. No. 972,447; Oct. 11; Sp. p. 2010; Gaz. vol. 159; p. 353.
Harper Supply Company, The. (See Harper, James M., assignor.)
Harper, Wilson R., Vinton, Iowa. Rotary steam-engine. No. 951,607; Mar. 8; Sp. p. 2314; Gaz. vol. 152; p. 402.
Harpham, G. E. (See Kelly, Richard W., assignor.)
Harpole, Andrew J., *et al.* (See Ellison, John D., assignor.)
Harpster, Fred H., Hazleton, Pa. Automatic pipe-coupling for cars. No. 950,263; Feb. 22; Sp. p. 5276; Gaz. vol. 151; p. 925.
Harpster, Willis M., Florence, Kans. Vaporizer for internal-combustion engines. No. 979,667; Dec. 27; Sp. p. 4853; Gaz. vol. 161; p. 851.
Harrah, Philip J., assignor to Automatic Jack Company, Bloomfield, Ind. Lifting-jack. No. 968,474; Aug. 23; Sp. p. 5599; Gaz. vol. 157; p. 966.
Harrell, Andy B., Pilotmountain, N. C. Shield for harness. No. 957,771; May 10; Sp. p. 2693; Gaz. vol. 154; p. 463.
Harrell, James R., Cincinnati, Ohio. Automatic forced-draft smoke-consumer. No. 967,375; Aug. 16; Sp. p. 3291; Gaz. vol. 157; p. 570.
Harrell, Jessey F., Monroe township, Madison county, Ind. Oil-gas generator and burner for stoves. No. 964,775; July 19; Sp. p. 3900; Gaz. vol. 156; p. 648.
Harrell, Joab B., Chappel, Tex. Attachment for riding breaking-plows. No. 962,342; June 21; Sp. p. 4420; Gaz. vol. 155; p. 762.
Harrell, Rupert L., assignor of one-half to The Red Top Bottling Company, Northwilkesboro, N. C. Vehicle-wheel hub. No. 974,662; Nov. 1; Sp. p. 1326; Gaz. vol. 160; p. 206.
Harrell, Samuel J., Minden, La. Safety-nest. No. 979,294; Dec. 20; Sp. p. 4082; Gaz. vol. 161; p. 702.
Harrigan, John, Brooklyn, N. Y. Manure-receptacle. No. 957,772; May 10; Sp. p. 2693; Gaz. vol. 154; p. 463.
Harrigan, John, Brooklyn, N. Y. Furnace. No. 966,200; Aug. 2; Sp. p. 769; Gaz. vol. 157; p. 122.
Harrigan, Patrick J. (See Henvis, Maurice P., assignor.)
Harrigan, Patrick J., Steubenville, Ohio. Check-holder. No. 954,096; Apr. 5; Sp. p. 843; Gaz. vol. 153; p. 145.
Harrigan, Patrick J., McKeesport, Pa. Safety appliance for car-couplings. No. 965,107; July 19; Sp. p. 4557; Gaz. vol. 156; p. 760.
Harrigan, Patrick J., McKeesport, Pa. Door-operating mechanism. No. 975,860; Nov. 15; Sp. p. 3928; Gaz. vol. 160; p. 662.
Harrigan, Patrick J., McKeesport, Pa. Dump car and vehicle. No. 975,861; Nov. 15; Sp. p. 3936; Gaz. vol. 160; p. 663.
Harrigan, Thomas M., Woodstock, Vt. Electric-light-pull insulator. No. 948,109; Feb. 1; Sp. p. 686; Gaz. vol. 151; p. 112.
Harrigan, Thomas M., Woodstock, Vt. Coupling for the operating-chains of lighting apparatus, &c. No. 974,567; Nov. 1; Sp. p. 1138; Gaz. vol. 160; p. 171.
Harriman, Edward H., Arden, N. Y., and W. R. McKeen, Jr., assignors, by mesne assignments, to McKeen Motor Car Company, Omaha, Nebr. Car-window. No. 973,502; Oct. 25; Sp. p. 4388; Gaz. vol. 159; p. 767.
Harriman, Frederick C., New York, N. Y. Combined roll-carrier and haversack. No. 946,856; Jan. 18; Sp. p. 4137; Gaz. vol. 150; p. 685.
Harriman, John E., Jr., Brookline, Mass. Flying-machine. No. 972,448; Oct. 11; Sp. p. 2011; Gaz. vol. 159; p. 353.
Harriman, John E., Jr., Brookline, and J. F. Hendrickson, Quincy, Mass. Coupling for pipes, rods, &c. No. 954,957; Apr. 12; Sp. p. 2762; Gaz. vol. 153; p. 468.
Harriman, Norman F. (See Hoffhine and Harriman.)
Harrington, Alexander W., Brooklyn, N. Y. Composition for treating paper. No. 960,319; June 7; Sp. p. 154; Gaz. vol. 155; p. 29.
Harrington, Alexander W., Brooklyn, N. Y., assignor, by mesne assignments, to The A. W. Harrington Company. Size for paper-makers. No. 960,318; June 7; Sp. p. 154; Gaz. vol. 155; p. 29.
Harrington, Charlie M., *et al.* (See Brown, Mark A., assignor.)
Harrington, Claude N., Avon, Minn. Automatic comb-cleaning holder. No. 952,328; Mar. 15; Sp. p. 3765; Gaz. vol. 152; p. 674.
Harrington, Claude N., Avon, Minn. Ear-corn holder. No. 952,616; Mar. 22; Sp. p. 4384; Gaz. vol. 152; p. 801.
Harrington and Company Limited. (See Gaut, Joseph, assignor.)
Harrington, James I., Sheffield, Mo. Washbench. No. 957,880; May 17; Sp. p. 2928; Gaz. vol. 154; p. 530.
Harrington, John L. (See Waddell and Harrington.)
Harrington, John M., Edgerton Junction, Mo. Road-scraper. No. 950,171; Feb. 22; Sp. p. 5083; Gaz. vol. 151; p. 892.
Harrington, Joseph. (See Poppenhusen and Harrington.)
Harrington, Joseph. (See Poppenhausen and Harrington.) (Reissue.)
Harrington, Joseph, assignor to Green Engineering Company, Chicago, Ill. Thermostatic valve for water-backs. No. 951,439; Mar. 8; Sp. p. 1986; Gaz. vol. 152; p. 345.
Harrington, Joseph A., South Boston, Mass. Razor-stropping device. No. 966,685; Aug. 9; Sp. p. 1811; Gaz. vol. 157; p. 309.
Harrington, Norman T., Lansing, Mich. Valve-gear for explosion-engines. No. 951,910; Mar. 15; Sp. p. 2961; Gaz. vol. 152; p. 536.
Harrington, Norman T., Lansing, Mich. Valve-control mechanism for explosion-engines. No. 962,214; June 21; Sp. p. 4139; Gaz. vol. 155; p. 718.
Harrington, Norman T., Lansing, Mich. Valve-gear for explosion-engines. No. 975,234; Nov. 8; Sp. p. 2619; Gaz. vol. 160; p. 423.
Harrington & Richardson Arms Company. (See Stockwell, Abner H., assignor.)
Harrington, Robert, and E. W. S. Young, Pietermaritzburg, Natal. Automatic adjustment device for railway brake mechanism. No. 946,356; Jan. 11; Sp. p. 2952; Gaz. vol. 150; p. 490.
Harrington, Thomas, New York, N. Y. Support for display matter. No. 950,912; Mar. 1; Sp. p. 945; Gaz. vol. 152; p. 151.
Harrington, William E. (See Burke and Harrington.)
Harris, Adolphus H., Denver, Colo., assignor to The International Railroad Automatic Safety Pipe Coupling Company, Omaha, Nebr. Automatic safety hose-coupling. No. 969,276; Sept. 6; Sp. p. 266; Gaz. vol. 158; p. 43.
Harris, Agnes, Oakland, Cal. Abdominal adjuster, reducer, supporter, and retainer. No. 960,908; June 7; Sp. p. 1340; Gaz. vol. 155; p. 225.
Harris Air Pump Company. (See Miller, Francis S., assignor.)
Harris, Albert M., South Bend, assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 973,113; Oct. 18; Sp. p. 3527; Gaz. vol. 159; p. 609.
Harris, Andrew J. and C., Sturgeon, Mo. Stock-feeder. No. 966,686; Aug. 9; Sp. p. 1813; Gaz. vol. 157; p. 310.
Harris, Archer H., Youngstown Ohio. Vulcanizing-press. No. 949,428; Feb. 15; Sp. p. 3472; Gaz. vol. 151; p. 606.
Harris, Arthur, Sylvania, Ga. Gas-generator. No. 972,188; Oct. 11; Sp. p. 1478; Gaz. vol. 159; p. 263.
Harris Automatic Press Company, The. (See Minnick, William F., assignor.)
Harris Automatic Press Company, The. (See Smith, Walter H., assignor.)
Harris, Benjamin, *et al.* (See Lutz, Herbert, assignor.)
Harris, Bert A. (See Brown and Harris.)
Harris, C. R. (See Warfield, John G., assignor.)
Harris, Caroline A. (See Casto, Frank M., assignor.)
Harris, Charles. (See Harris, Andrew J. and C.)
Harris, Charles A., Webster City, Iowa. Safety-shield and self-sharpener for razors. No. 976,259; Nov. 22; Sp. p. 4828; Gaz. vol. 160; p. 824.
Harris, Charles F., Altoona, Pa. Attachment for locomotive or other boilers. No. 959,134; May 24; Sp. p. 5897; Gaz. vol. 154; p. 988.
Harris, Charles F., Altoona, Pa. Smoke-consumer. No. 961,072; June 7; Sp. p. 1672; Gaz. vol. 155; p. 280.
Harris, Charles G., Louisville, Ky. Checking device. No. 960,544; June 7; Sp. p. 630; Gaz. vol. 155; p. 102.
Harris, Charlotte, New York, N. Y. Shield for gloves. No. 967,376; Aug. 16; Sp. p. 3293; Gaz. vol. 157; p. 570.
Harris, Edward. (See Kercheveal, John A., assignor.)
Harris, Edward K., Canandaigua, N. Y. Station-indicator. No. 953,528; Mar. 29; Sp. p. 6356; Gaz. vol. 152; p. 1138.
Harris, Edward K., Canandaigua, N. Y. Trolley-wheel. No. 976,172; Nov. 22; Sp. p. 4602; Gaz. vol. 160; p. 792.
Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rheostat. No. 946,544; Jan. 18; Sp. p. 3452; Gaz. vol. 150; p. 580.
Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device for electric apparatus. No. 963,762; July 12; Sp. p. 1623; Gaz. vol. 156; p. 273.
Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric thermostat. No. 963,763; July 12; Sp. p. 1625; Gaz. vol. 156; p. 274.
Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-circuit interrupter. No. 963,764; July 12; Sp. p. 1627; Gaz. vol. 156; p. 274.
Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 973,938; Oct. 25; Sp. p. 5292; Gaz. vol. 159; p. 918.
Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric-circuit switch. No. 975,417; Nov. 15; Sp. p. 2997; Gaz. vol. 160; p. 510.

Alphabetical list of patentees—Continued.

Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric switching device. No. 975,418; Nov. 15; Sp. p. 2998; Gaz. vol. 160; p. 511.

Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric-circuit switch. No. 975,419; Nov. 15; Sp. p. 3001; Gaz. vol. 160; p. 511.

Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electric-circuit protection. No. 975,420; Nov. 15; Sp. p. 3002; Gaz. vol. 160; p. 512.

Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-breaker. No. 975,421; Nov. 15; Sp. p. 3005; Gaz. vol. 160; p. 512.

Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker. No. 978,882; Dec. 20; Sp. p. 3139; Gaz. vol. 161; p. 557.

Harris, Frank E., Lowell, Mass. Search-light controller. No. 953,332; Mar. 29; Sp. p. 5918; Gaz. vol. 152; p. 1068.

Harris, George. (See Lindhorst, Frank E., assignor.)

Harris, Gordon D., Bay Shore, assignor of one-half to A. R. Brandly, New York, N. Y. Apparatus for dehydrating food products. No. 959,933; May 31; Sp. p. 7588; Gaz. vol. 154; p. 1282.

Harris, Harley M., assignor, by mesne assignments, of one-half to H. A. Harris, Goodwine, Ill. Railway-track-surfacing device. No. 949,429; Feb. 15; Sp. p. 3475; Gaz. vol. 151; p. 607.

Harris, Harley M., assignor, by mesne assignments, of one-half to H. A. Harris, Goodwine, Ill. Jack-block for track-levelings. No. 975,765; Nov. 15; Sp. p. 3740; Gaz. vol. 160; p. 630.

Harris, Harvey A. (See Harris, Harley M., assignor.)

Harris, Henry B., *et al.* (See Steinberger, Edward J., assignor.)

Harris, Henry K., Providence, R. I. Envelop-sealing machine. No. 957,555; May 10; Sp. p. 2260; Gaz. vol. 154; p. 391.

Harris, Irvin F., Forreston, Tex. Vending apparatus. No. 969,619; Sept. 6; Sp. p. 1001; Gaz. vol. 158; p. 160.

Harris, Irvin F., Forreston, Tex. Vending-machine. No. 973,939; Oct. 25; Sp. p. 5293; Gaz. vol. 159; p. 919.

Harris, Israel N. (See Davis, John N., assignor.)

Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electric meter. No. 970,498; Sept. 20; Sp. p. 2884; Gaz. vol. 158; p. 504.

Harris, John, Cleveland, Ohio. Blowpipe. No. 948,323; Feb. 8; Sp. p. 1130; Gaz. vol. 151; p. 208.

Harris, John C., Savannah, Ga. Tag-fastener. No. 949,570; Feb. 15; Sp. p. 3755; Gaz. vol. 151; p. 653.

Harris, John M., Callao, Mo. Wheelbarrow. No. 961,609; June 14; Sp. p. 2831; Gaz. vol. 155; p. 490.

Harris, Joseph G., and A. Mancuso, Philadelphia, Pa. Telephone-receiver support. No. 978,370; Dec. 13; Sp. p. 2057; Gaz. vol. 161; p. 359.

Harris, Joseph W. (See Désy, Louis A., assignor.)

Harris, Lawrence P., assignor of one-half to C. C. Reynolds, Portales, N. Mex. Window-shade adjuster. No. 956,085; Apr. 26; Sp. p. 5202; Gaz. vol. 153; p. 915.

Harris, Louis, *et al.* (See Harris, Nathan, assignor.)

Harris, Lydia, East Pasadena, Cal. Washing-machine. No. 969,952; Sept. 13; Sp. p. 1743; Gaz. vol. 158; p. 299.

Harris, M. J. (See Merritt, Rex C., assignor.)

Harris, Malcolm L., Chicago, Ill. Rotary gas-engine. No. 963,436; July 5; Sp. p. 955; Gaz. vol. 156; p. 142.

Harris, Malcolm L., Chicago, Ill. Rotary engine. No. 974,485; Nov. 1; Sp. p. 948; Gaz. vol. 160; p. 140.

Harris, Max. (See Foell and Harris.)

Harris, Nathan, Jamaica Plain, Mass., assignor of one-third to K. M. Goldsmith, New York, N. Y., and one-third to L. Harris, Boston, Mass. Coat-collar. No. 977,865; Dec. 6; Sp. p. 969; Gaz. vol. 161; p. 153.

Harris, Nathan, Jamaica Plain, Mass., assignor of one-third to K. M. Goldsmith, New York, N. Y., and one-third to L. Harris, Boston, Mass. Coat-collar. No. 977,866; Dec. 6; Sp. p. 971; Gaz. vol. 161; p. 153.

Harris, Reese T. (See Stolkrantz, John W., assignor.)

Harris, Richard E., Cody, Nebr. Hay-stacker. No. 955,264; Apr. 19; Sp. p. 3386; Gaz. vol. 153; p. 603.

Harris, Thaddeus S., Modesto, Ill. Airship. No. 976,873; Nov. 29; Sp. p. 6140; Gaz. vol. 160; p. 1058.

Harris, Thomas L. (See Williams and Harris.)

Harris Tire & Rubber Company. (See Harris, William D., assignor.)

Harris, Varian M., Chicago, Ill., assignor, by mesne assignments, to The Cleveland Phonograph Record Company, Cleveland, Ohio. Manufacture of cylindrical phonograph record-blanks. (Reissue.) No. 13,067; Jan. 4; Sp. p. 1586; Gaz. vol. 150; p. 244.

Harris, Varian M., Chicago, Ill., assignor, by mesne assignments, to The United States Phonograph Company, Cleveland, Ohio. Manufacture of phonograph-record blanks. No. 960,320; June 7; Sp. p. 155; Gaz. vol. 155; p. 30.

Harris, Warren B., Milbury, Mass. Window-frame. No. 957,881; May 17; Sp. p. 2929; Gaz. vol. 154; p. 530.

Harris, William, Paterson, N. J. Loom. No. 950,021; Feb. 22; Sp. p. 4792; Gaz. vol. 151; p. 842.

Harris, William, Buffalo, N. Y. Electrical muscular exercising-machine. No. 955,793; Apr. 19; Sp. p. 4531; Gaz. vol. 153; p. 782.

Harris, William A., assignor to G. W. Taylor, Greenville, S. C. File-cabinet. No. 974,663; Nov. 1; Sp. p. 1327; Gaz. vol. 160; p. 206.

Harris, William C. (See Phelps, William J., assignor.)

Harris, William D., assignor to Harris Tire & Rubber Co., Philadelphia, Pa. Tire. No. 947,442; Jan. 25; Sp. p. 5430; Gaz. vol. 150; p. 909.

Harris, William H., Gladstone, N. Mex. Shoe-fastener. No. 954,390; Apr. 5; Sp. p. 1467; Gaz. vol. 153; p. 244.

Harris, William H., Gladstone, N. Mex. Portable truck. No. 955,398; Apr. 19; Sp. p. 3689; Gaz. vol. 153; p. 648.

Harris, William H., Gladstone, N. Mex. Glove-fastener. No. 959,737; May 31; Sp. p. 7151; Gaz. vol. 154; p. 1214.

Harris, William H., Gladstone, N. Mex. Shoe-fastening device. No. 960,545; June 7; Sp. p. 631; Gaz. vol. 155; p. 102.

Harris, William H., Gladstone, N. Mex. Portable track. No. 978,582; Dec. 13; Sp. p. 2537; Gaz. vol. 161; p. 432.

Harris, William H., Laurium, Mich. Calipers. No. 970,817; Sept. 20; Sp. p. 3615; Gaz. vol. 158; p. 617.

Harris, William T., Sr., Harrodsburg, Ky. Concrete-mold. No. 960,909; June 7; Sp. p. 1341; Gaz. vol. 155; p. 225.

Harris, William W. (See Pfleiderer and Harris.)

Harris, William W., Bridgeport, Conn., assignor to Acetylene Lamp Company, New York, N. Y. Acetylene-gas generator. No. 972,855; Oct. 18; Sp. p. 2925; Gaz. vol. 159; p. 520.

Harrisburg Foundry & Machine Works. (See Allen, Benjamin T., assignor.)

Harrison, Abraham, Los Angeles, Cal. Bath-tub head-rest. No. 977,950; Dec. 6; Sp. p. 1142; Gaz. vol. 161; p. 184.

Harrison, Alexander R., Millville, N. J. Reflector for headlights. No. 979,852; Dec. 27; Sp. p. 5282; Gaz. vol. 161; p. 914.

Harrison, Archer H., assignor of one-third to J. H. Cain and one-sixth to J. M. Conerly, Orange, La. Automatic air-coupling. No. 967,516; Aug. 16; Sp. p. 3598; Gaz. vol. 157; p. 618.

Harrison Bros. & Co. (See Havens, Franke S., assignor.)

Harrison Bros. & Co. (See Hileman, Albert, assignor.)

Harrison, Charles H. (See Hughes, Raymond E., assignor.)

Harrison, Charlie, Armstrong, Ill. Barn-door latch. No. 956,086; Apr. 26; Sp. p. 5202; Gaz. vol. 153; p. 915.

Harrison, Clark W. (See Fletcher, Joseph, assignor.)

Harrison, Dabney C., Washington, D. C. Window-shade. No. 957,207; May 10; Sp. p. 1532; Gaz. vol. 154; p. 271.

Harrison, Frank M., Newton, assignor to C. H. McDermott, Malden, Mass. Bottle-stopper. No. 978,449; Dec. 13; Sp. p. 2223; Gaz. vol. 161; p. 385.

Harrison, George A. (See Mitchell and Harrison.)

Harrison, Harry O., Wichita, Kans. Foot-pump. No. 956,703; May 3; Sp. p. 442; Gaz. vol. 154; p. 70.

Harrison, Henry W., Clinton, Iowa. Broom-holding device. No. 957,673; May 10; Sp. p. 2498; Gaz. vol. 154; p. 432.

Harrison, Herbert C., Lockport, N. Y., assignor to Electro Metallurgical Company. Electrode-protector. No. 951,990; Mar. 15; Sp. p. 3112; Gaz. vol. 152; p. 561.

Harrison, Herbert C., Lockport, N. Y., assignor to Electro Metallurgical Company. Blowpipe and operating the same. No. 968,350; Aug. 23; Sp. p. 5357; Gaz. vol. 157; p. 924.

Harrison, Holmes C., Buffalo Junction, Va. Car-replacer. No. 954,800; Apr. 12; Sp. p. 2419; Gaz. vol. 153; p. 414.

Harrison, Isaac. (See Greenwald and Harrison.)

Harrison, James E., New York, N. Y. Vehicle-tire. No. 968,941; Aug. 30; Sp. p. 6615; Gaz. vol. 157; p. 1152.

Harrison, James G., assignor to American Fibre Matting Company, Lawrence, Mass. Yarn and making same. No. 961,441; June 14; Sp. p. 2470; Gaz. vol. 155; p. 434.

Harrison, James P. M. (See McKee and Coursey, assignors.)

Harrison, John H., Broadway, Va. Rotary engine. No. 945,525; Jan. 4; Sp. p. 1121; Gaz. vol. 150; p. 173.

Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 949,892; Feb. 22; Sp. p. 4457; Gaz. vol. 151; p. 796.

Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 953,784; Apr. 5; Sp. p. 199; Gaz. vol. 153; p. 37.

Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 956,087; Apr. 26; Sp. p. 5203; Gaz. vol. 153; p. 915.

Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 956,637; May 3; Sp. p. 279; Gaz. vol. 154; p. 46.

Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Trussed structure. No. 960,639; June 7; Sp. p. 819; Gaz. vol. 155; p. 134.

Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Trussed structure. No. 980,099; Dec. 27; Sp. p. 5801; Gaz. vol. 161; p. 995.

Harrison, Robert B. (See Logan and Harrison.)

Harrison Safety Boiler Works. (See Gamble, Joseph W., assignor.)

Alphabetical list of patentees—Continued.

Harrison Safety Boiler Works. (See Jones, Robert V., assignor.)
Harrison Safety Boiler Works. (See Wallem, Axel B., assignor.)
Harrison, Sallie B., Martinsburg, W. Va. Culinary article. No. 972,078; Oct. 4; Sp. p. 1229; Gaz. vol. 159; p. 208.
Harrison, Samuel A., Brooklyn, N. Y. Oriental typewriter. No. 977,448; Dec. 6; Sp. p. 44; Gaz. vol. 161; p. 10.
Harrison, William L., Branford, Conn. Mechanism for transmitting rotary motion. No. 978,371; Dec. 13; Sp. p. 2059; Gaz. vol. 161; p. 359.
Harrison, William W., Glenside, Pa. Motor-driven lawnmower. No. 963,146; July 5; Sp. p. 311; Gaz. vol. 156; p. 43.
Harrod, Walter E., Harrod, Ohio. Index-tab. No. 976,073; Nov. 15; Sp. p. 4333; Gaz. vol. 160; p. 735.
Harrod, Walter E., Harrod, Ohio. Index-tab. No. 979,946; Dec. 27; Sp. p. 5469; Gaz. vol. 161; p. 945.
Harrold, Lawn, Ellwood City, and W. J. Thamsen, Hazeldell, Pa. Overshoe-retainer. No. 962,428; June 28; Sp. p. 4617; Gaz. vol. 155; p. 815.
Harry, Owen K., Dallas, Tex. Storm and refrigerator cellar. No. 955,794; Apr. 19; Sp. p. 4532; Gaz. vol. 153; p. 783.
Harry, Owen K., Dallas, Tex. Tank and support. No. 965,455; July 26; Sp. p. 5308; Gaz. vol. 156; p. 907.
Harry, Owen K., Dallas, Tex. Metallic culvert. No. 973,503; Oct. 25; Sp. p. 4391; Gaz. vol. 159; p. 767.
Harry, Thomas C. (See Creager and Harry.)
Harryman, Carrel R., Shawnee, Okla. Plow. No. 970,818; Sept. 20; Sp. p. 3616; Gaz. vol. 158; p. 617.
Harshbarger, Parrott G., Hyde Park, Mass. Form for manholes. No. 975,525; Nov. 15; Sp. p. 3228; Gaz. vol. 160; p. 550.
Harshell, Robert E., Georges Station, Pa. Wrench. No. 963,550; July 5; Sp. p. 1176; Gaz. vol. 156; p. 180.
Hart, Barney, Jacksonville, Fla. Turpentine-still. No. 947,662; Jan. 25; Sp. p. 5920; Gaz. vol. 150; p. 984.
Hart, Charles, Oakland, Cal., assignor to The Hart Heater Company. Burner for water-heaters. No. 978,123; Dec. 6; Sp. p. 1511; Gaz. vol. 161; p. 243.
Hart, Charles M. (See Inglee and Hart.)
Hart, Charles W., Charles City, Iowa. Steering-wheel for traction-vehicles. No. 950,045; Feb. 22; Sp. p. 4834; Gaz. vol. 151; p. 850.
Hart & Cooley Company, The. (See Wilson, Frederick A., assignor.)
Hart, Edwin, assignor to The New England Watch Co., Waterbury, Conn. Self-mounting case for watches and watch-clocks. No. 950,780; Mar. 1; Sp. p. 691; Gaz. vol. 152; p. 110.
Hart, Eli S., assignor to Gravity Coal Bin Company, Chicago, Ill. Device for unloading and distributing coal. No. 946,219; Jan. 11; Sp. p. 2653; Gaz. vol. 150; p. 442.
Hart, Frederick A., assignor to New York Adding Typewriter Company, Orange, N. J. Adding type-writer. No. 961,073; June 7; Sp. p. 1678; Gaz. vol. 155; p. 281.
Hart, Gilbert, Detroit, Mich. Grinding-wheel. No. 945,526; Jan. 4; Sp. p. 1124; Gaz. vol. 150; p. 173.
Hart, Harry. (See Peters, Hart, and Stinecipher.)
Hart, Harry S., Chicago, Ill., assignor to Rodger Ballast Car Company. Dump-car. No. 956,851; May 3; Sp. p. 768; Gaz. vol. 154; p. 121.
Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Underframe for railway-cars. No. 963,891; July 12; Sp. p. 1933; Gaz. vol. 156; p. 317.
Hart Heater Company, The. (See Hart, Charles, assignor.)
Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
Hart, Henry U., New York, N. Y. Metal seat and the like. No. 951,371; Mar. 8; Sp. p. 1851; Gaz. vol. 152; p. 323.
Hart, Hubert C., Unionville, Conn. Knife. No. 947,103; Jan. 18; Sp. p. 4644; Gaz. vol. 150; p. 766.
Hart, Hubert C., Unionville, Conn. Composition of matter for knife-handles. No. 948,727; Feb. 8; Sp. p. 2011; Gaz. vol. 151; p. 344.
Hart, James E., Edgefield, S. C., assignor of one-fourth to L. T. Fisher, administratrix, Southport, N. C. Storing and dispensing cabinet for sheet fabrics. No. 954,801; Apr. 12; Sp. p. 2421; Gaz. vol. 153; p. 414.
Hart, Joseph L., Chickasha, Okla. Cotton huller and cleaner. No. 962,343; June 21; Sp. p. 4421; Gaz. vol. 155; p. 762.
Hart, Justin, and F. F. Green, Lawrence, Mass. Stock-feeding device. No. 967,517; Aug. 16; Sp. p. 3601; Gaz. vol. 157; p. 618.
Hart, Louis F., assignor to The Hart Manufacturing Company, Cleveland, Ohio. Screw-cutting device. No. 962,024; June 21; Sp. p. 3709; Gaz. vol. 155; p. 652.
Hart Manufacturing Company, The. (See Hart, Louis F., assignor.)
Hart Manufacturing Company, The. (See Leppert, Henry E., assignor.)
Hart, Milton H. (See Bundy, Henry C., assignor.)
Hart, Milton H., New York, N. Y. Nozzle for fire-fighting apparatus. No. 965,709; July 26; Sp. p. 5870; Gaz. vol. 156; p. 997.
Hart, Richard J., Marietta, Ohio. Baling-machine. No. 947,039; Jan. 18; Sp. p. 4526; Gaz. vol. 150; p. 746.
Hart, Robert, Ardoch, N. D. Machine for treating grain. No. 963,551; July 5; Sp. p. 1177; Gaz. vol. 156; p. 181.
Hart, Samuel R., Andalusia, Ala. Stump-puller. No. 961,074; June 7; Sp. p. 1693; Gaz. vol. 155; p. 281.
Hart, Stephen D., and A. Hoefer, Villard, Minn. Door. No. 946,038; Jan. 11; Sp. p. 2284; Gaz. vol. 150; p. 379.
Hart, Thomas M., assignor to L. Munzinger, New York, N. Y. Fence. No. 964,470; July 12; Sp. p. 3098; Gaz. vol. 156; p. 509.
Hart, William D. (See Carlson and Hart.)
Hart, William H., Battle Creek, and J. E. Dobson, Detroit, assignors to H. B. Sherman Manufacturing Company, Battle Creek, Mich. Nail-making machine. No. 948,879; Feb. 8; Sp. p. 2313; Gaz. vol. 151; p. 394.
Hart, William P., assignor to The Automatic Individual Butter Cutter Co., Boston, Mass. Butter-cutter. No. 949,929; Feb. 22; Sp. p. 4529; Gaz. vol. 151; p. 808.
Hart, William P., Boston, Mass., assignor to Automatic Individual Butter Cutter Company. Butter-cutter. No. 958,639; May 17; Sp. p. 4831; Gaz. vol. 154; p. 794.
Hartenheim, Max, Hale, England, assignor to Westinghouse Electric and Manufacturing Company. Control system for electric motors. No. 947,329; Jan. 25; Sp. p. 5164; Gaz. vol. 150; p. 871.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Manufacturing carbid and products of same. No. 946,432; Jan. 11; Sp. p. 3210; Gaz. vol. 150; p. 517.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Manufacture of carbid. No. 946,433; Jan. 11; Sp. p. 3213; Gaz. vol. 150; p. 517.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Carbon-holder. No. 946,434; Jan. 11; Sp. p. 3217; Gaz. vol. 150; p. 517.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Carbon-holder. No. 946,435; Jan. 11; Sp. p. 3220; Gaz. vol. 150; p. 517.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Manufacturing carbid. No. 946,497; Jan. 11; Sp. p. 3350; Gaz. vol. 150; p. 538.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Manufacture of calcium carbid. No. 946,510; Jan. 11; Sp. p. 3396; Gaz. vol. 150; p. 544.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Manufacturing carbid. No. 946,511; Jan. 11; Sp. p. 3398; Gaz. vol. 150; p. 544.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Making calcium carbid. No. 966,542; Aug. 9; Sp. p. 1525; Gaz. vol. 157; p. 261.
Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Tapping element for melting-furnaces. No. 971,445; Sept. 27; Sp. p. 4854; Gaz. vol. 158; p. 850.
Harter, Charles, Barberton, Ohio, and J. W. Small, Los Angeles, Cal. Stay-bolt breaker. No. 972,856; Oct. 18; Sp. p. 2930; Gaz. vol. 159; p. 520.
Harter Electric Company. (See Harter, Gustav A., assignor.)
Harter, Gustav A., assignor, by mesne assignments, to Harter Electric Company, Chicago, Ill. Mold for plastic material. No. 949,571; Feb. 15; Sp. p. 3756; Gaz. vol. 151; p. 653.
Harter, Gustav A., assignor to V. Harter, Chicago, Ill. Lamp-cluster. No. 965,296; July 26; Sp. p. 4946; Gaz. vol. 156; p. 853.
Harter, Vincent. (See Harter, Gustav A., assignor.)
Hartford, David M., C. M. Taylor, and L. S. Stone, Los Angeles, Cal. Electric gas-lighting apparatus. No. 959,525; May 31; Sp. p. 6715; Gaz. vol. 154; p. 1143.
Hartford, Edward V., *et al.* (See Truffault, Jules M. M., assignor.) (Reissue.)
Hartford, George H., *et al.* (See Truffault, Jules M. M., assignor.) (Reissue.)
Hartford Machine Screw Company, The. (See Witherell, Seward, and Mason, assignors.)
Hartford Rubber Works Company, The. (See Midgley, Thomas, assignor.)
Harthan, Charles E., and W. H. Dalton, Lynn, Mass., assignors to General Electric Company. Arc-lamp. No. 945,942; Jan. 11; Sp. p. 2086; Gaz. vol. 150; p. 348.
Hartig, Arthur E., and E. B. Wooten, Davenport, Iowa; said Wooten assignor to said Hartig. Gas or vapor stove. No. 968,942; Aug. 30; Sp. p. 6616; Gaz. vol. 157; p. 1152.
Hartill-Law, William, Toronto, Ontario, Canada. Snow-plow. No. 966,831; Aug. 9; Sp. p. 2173; Gaz. vol. 157; p. 358.
Harting, Clayton C. (See Knapp and Harting.)
Hartle, Edda G., Galion, Ohio. Dumping-wagon. No. 956,088; Apr. 26; Sp. p. 5205; Gaz. vol. 153; p. 915.

Hartlett, George D., New Rochelle, N. Y., assignor to R. Stern, West Norwalk, Conn. Curtain-shade fixture. No. 969,473; Sept. 6; Sp. p. 678; Gaz. vol. 158; p. 108.
Hartley, Charles F., Pennville, Ind. Tongue-truck. No. 967,017; Aug. 9; Sp. p. 2557; Gaz. vol. 157; p. 420.
Hartley, Charles J., Decatur, Ill. Grain-conveyer. No. 961,958; June 21; Sp. p. 3578; Gaz. vol. 155; p. 631.
Hartley, Floyd. (See Weatherman, Robert W., assignor.)
Hartley, George D., Montreal, Quebec, Canada, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine. No. 945,718; Jan. 4; Sp. p. 1530; Gaz. vol. 150; p. 238.
Hartley, George D., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 945,719; Jan. 4; Sp. p. 1535; Gaz. vol. 150; p. 238.
Hartley, George D., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 953,745; Apr. 5; Sp. p. 126; Gaz. vol. 153; p. 25.
Hartley, George D., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 956,344; Apr. 26; Sp. p. 5767; Gaz. vol. 153; p. 1003.
Hartley, Harry C., Washington, D. C., assignor of one-half to E. M. Potter, New York, N. Y. Draft-writing machine. No. 969,369; Sept. 6; Sp. p. 464; Gaz. vol. 158; p. 75.
Hartley, James W., assignor of one-half to A. J. Dow, Houston, Tex. Combined billing and journal sheet. No. 945,527; Jan. 4; Sp. p. 1126; Gaz. vol. 150; p. 173.
Hartley, Leonard H., Lowell, assignor to Hartley Loop Weave Company, Amesbury, Mass. Loom for weaving pile fabrics. No. 960,171; May 31; Sp. p. 8102; Gaz. vol. 154; p. 1363.
Hartley Loop Weave Company, The. (See Hartley, Leonard H., assignor.)
Hartlieb, Herman, and F. Lind, St. Louis, Mo. Egg-turner for incubators. No. 969,277; Sept. 6; Sp. p. 267; Gaz. vol. 158; p. 44.
Hartman, Clyde F., and S. R. Cooke, Fortyfort, Pa. Concrete-block press. No. 976,649; Nov. 22; Sp. p. 5669; Gaz. vol. 160; p. 958.
Hartman, Frank O., Mansfield, Ohio. High-potential switch. No. 949,182; Feb. 15; Sp. p. 2945; Gaz. vol. 151; p. 522.
Hartman, Harry B., assignor to McDowell Manufacturing Company, Pittsburg, Pa. Automatic circuit-controller for water-purifying apparatus. No. 948,648; Feb. 8; Sp. p. 1841; Gaz. vol. 151; p. 317.
Hartman, Harry B., assignor to McDowell Manufacturing Company, Pittsburg, Pa. Purifying water electrolytically. No. 951,311; Mar. 8; Sp. p. 1724; Gaz. vol. 152; p. 304.
Hartman, Harry B., assignor to McDowell Manufacturing Company, Pittsburg, Pa. Control valve mechanism for electrolytic water-purifying apparatus. No. 951,312; Mar. 8; Sp. p. 1728; Gaz. vol. 152; p. 304.
Hartman, Harry B., assignor to McDowell Manufacturing Company, Pittsburg, Pa. Electrolytic water-purifying apparatus. No. 951,313; Mar. 8; Sp. p. 1732; Gaz. vol. 152; p. 305.
Hartman, Harry B., assignor to McDowell Manufacturing Company, Pittsburg, Pa. Electrode-box for liquid-purifying apparatus. No. 951,314; Mar. 8; Sp. p. 1735; Gaz. vol. 152; p. 305.
Hartman, Harry B., assignor to McDowell Manufacturing Company, Pittsburg, Pa. Current reversing and control mechanism for liquid-purifying apparatus. No. 951,315; Mar. 8; Sp. p. 1739; Gaz. vol. 152; p. 306.
Hartman, Hugo F., Milwaukee, Wis. Folding scaffold-ladder. No. 976,074; Nov. 15; Sp. p. 4333; Gaz. vol. 160; p. 736.
Hartman, Joseph, Chicago, Ill., assignor to W. T. Stall, Brockton, Mass., and C. H. Dean, Chicago, Ill. Baseball mitt. No. 958,117; May 17; Sp. p. 3641; Gaz. vol. 154; p. 614.
Hartmann, August H., Indianapolis, Ind. Automatic fire-escape. No. 967,518; Aug. 16; Sp. p. 3605; Gaz. vol. 157; p. 619.
Hartmann & Braun Aktiengesellschaft. (See Görner, Johannes, assignor.)
Hartmann & Braun A G. (See Hartmann-Kempf, Robert, assignor.)
Hartmann, Christoph. (See Hepp and Hartmann.)
Hartmann, Federico, Buenos Ayres, Argentina. Cartridge for reduced shot. No. 976,459; Nov. 22; Sp. p. 5260; Gaz. vol. 160; p. 893.
Hartmann, Frederick W., and W. C. Hartmann, Milwaukee, Wis., assignors to The Milwaukee Separator Company. Cream-separator. No. 962,141; June 21; Sp. p. 3995; Gaz. vol. 155; p. 693.
Hartmann, Georg, and O. A. Schwerdtner, Gross Schöneau, near Zittau, Germany. Preserving wood. No. 974,962; Nov. 8; Sp. p. 2020; Gaz. vol. 160; p. 331.
Hartmann, George H. (See Lilly and Hartmann.)
Hartmann, Hermann, and W. Klehe, New York, N. Y. Aeroplane. No. 971,535; Oct. 4; Sp. p. 50; Gaz. vol. 159; p. 11.
Hartmann, Joseph, Chicago, Ill. Biscuit-cutter. No. 973,192; Oct. 18; Sp. p. 3738; Gaz. vol. 159; p. 638.
Hartmann-Kempf, Robert, assignor to Hartmann & Braun A G, Frankfort-on-the-Main, Germany. Resonance-tachometer. No. 959,934; May 31; Sp. p. 7595; Gaz. vol. 154; p. 1282.
Hartmann, Paul, assignor to Hochstein & Weinberg, Berlin, Germany. Device for feeding sheets. No. 974,767; Nov. 1; Sp. p. 1558; Gaz. vol. 160; p. 240.
Hartmann, Svend, Melbourne, Victoria, Australia. Butter-collecting appliance for churns. No. 971,041; Sept. 27; Sp. p. 4056; Gaz. vol. 158; p. 718.
Hartmann, William C. (See Hartmann, Frederick W. and W. C.)
Hartmann, William C., Milwaukee, Wis., assignor to The Milwaukee Separator Company. Cream-separator. No. 961,349; June 14; Sp. p. 2291; Gaz. vol. 155; p. 404.
Hartmann, William C., assignor to The Milwaukee Separator Co., Milwaukee, Wis. Cream-separator. No. 964,643; July 19; Sp. p. 3518; Gaz. vol. 156; p. 601.
Hartness, James, Springfield, Vt. Washbasin. No. 949,396; Feb. 15; Sp. p. 3408; Gaz. vol. 151; p. 595.
Hartness, James, Springfield, Vt. Washbasin. No. 971,839; Oct. 4; Sp. p. 688; Gaz. vol. 159; p. 121.
Hartog, Stephen D., assignor to Bradley Stencil Machine Company, St. Louis, Mo. Stencil-cutting machine. No. 964,251; July 12; Sp. p. 2657; Gaz. vol. 156; p. 438.
Harton, Thomas J., St. Louis, Mo. Ice-cream freezer. No. 966,912; Aug. 9; Sp. p. 2337; Gaz. vol. 157; p. 384.
Harton, Thomas J., Dallas, Tex. Ice-cream freezer. No. 971,888; Oct. 4; Sp. p. 811; Gaz. vol. 159; p. 140.
Hartridge, William B., Seaford, England. Pneumatic tire. No. 962,897; June 28; Sp. p. 5594; Gaz. vol. 155; p. 979.
Hartsell, Robert L., Smiths Ford, N. C. Cotton-chopper. No. 947,638; Jan. 25; Sp. p. 5872; Gaz. vol. 150; p. 975.
Hartshorn, Derick S., Boston, and A. A. Claflin, Medford, Mass. Electrolytic cell. No. 979,485; Dec. 27; Sp. p. 4458; Gaz. vol. 161; p. 788.
Hartshorn, Edmund F., Newark, assignor to Stewart Hartshorn Company, East Newark, N. J. Spring shade-roller. No. 949,893; Feb. 22; Sp. p. 4458; Gaz. vol. 151; p. 796.
Hartshorn, Edmund F., assignor to Stewart Hartshorn Company, East Newark, N. J. Fastener. No. 979,853; Dec. 27; Sp. p. 5283; Gaz. vol. 161; p. 914.
Hartung, Emil, Mülhausen, Germany. Stuffing-axle. No. 966,331; Aug. 2; Sp. p. 1009; Gaz. vol. 157; p. 163.
Hartwell, Joseph C. (See Turner, William A., assignor.)
Hartwell, Leslie L., Chelsea, assignor to A. G. Walton, Wakefield, Mass. Machine for making skived blanks. No. 967,910; Aug. 23; Sp. p. 4387; Gaz. vol. 157; p. 773.
Hartwell, Leslie L., Chelsea, assignor to A. G. Walton, Wakefield, Mass. Machine for making skived blanks. No. 970,499; Sept. 20; Sp. p. 2886; Gaz. vol. 158; p. 504.
Hartwell, Silas H., Nova, W. Va. Railway-crossing gate. No. 964,911; July 19; Sp. p. 4175; Gaz. vol. 156; p. 696.
Hartwick, Adam J., Clarks Summit, Pa. Safety-guard for jointers. No. 971,607; Oct. 4; Sp. p. 215; Gaz. vol. 159; p. 38.
Hartwick, John D. (See Roberts and Hartwick.)
Hartzell, Forest H., Dayton, Ohio. Pedal-mounting. No. 961,442; June 14; Sp. p. 2471; Gaz. vol. 155; p. 434.
Hartzell, Morris H., assignor to S. S. Fretz, Jr., Philadelphia, Pa. Umbrella rib and stretcher joint. No. 950,913; Mar. 1; Sp. p. 947; Gaz. vol. 152; p. 151.
Hartzell, Morris H., assignor to S. S. Fretz, Jr., Philadelphia, Pa. Umbrella stretcher and rib-joint. No. 962,215; June 21; Sp. p. 4141; Gaz. vol. 155; p. 719.
Harvard Electric Company, The. (See Dorff, Conrad J., assignor.)
Harvey, Allen L., Salem, Oreg. Horse controlling or hitching device. No. 959,135; May 24; Sp. p. 5900; Gaz. vol. 154; p. 988.
Harvey, Charles A., Chicago, Ill., assignor to Producer Gas Utilities Company. Gas-producer. No. 953,614; Mar. 29; Sp. p. 6531; Gaz. vol. 152; p. 1167.
Harvey, Charles A., assignor to Producer Gas Utilities Co., Chicago, Ill. Feeding device for producers. No. 962,216; June 21; Sp. p. 4142; Gaz. vol. 155; p. 719.
Harvey, George H. (See Speer and Harvey.)
Harvey, George H., Rochester, Pa. Making sheets or plates of opalite or opalescent glass. No. 949,183; Feb. 15; Sp. p. 2950; Gaz. vol. 151; p. 522.
Harvey, Henry J., Seattle, Wash. Drilling-machine. No. 959,007; May 24; Sp. p. 5629; Gaz. vol. 154; p. 946.
Harvey, John G., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Lighter for burners of gas-stove ovens. No. 972,619; Oct. 11; Sp. p. 2429; Gaz. vol. 159; p. 414.
Harvey, Josiah H., Scranton, Pa. Nut-lock. No. 971,675; Oct. 4; Sp. p. 348; Gaz. vol. 159; p. 61.
Harvey, Josiah H., Scranton, Pa. Vehicle-wheel. No. 978,289; Dec. 13; Sp. p. 1894; Gaz. vol. 161; p. 332.
Harvey, Luther P., assignor of one-half to B. F. Bedinger, Charlotte Court House, Va. Mail receiving and delivering apparatus. No. 945,528; Jan. 4; Sp. p. 1127; Gaz. vol. 150; p. 174.
Harvey, Moses W., Foresthill, W. Va. Hoof-plane. No. 973,780; Oct. 25; Sp. p. 4963; Gaz. vol. 159; p. 863.
Harvey, Samson, Manor Station, Pa. Nut-lock. No. 948,855; Feb. 8; Sp. p. 2275; Gaz. vol. 151; p. 386.
Harvie, Albert A., Ottumwa, Iowa. Trowel. No. 977,387; Nov. 29; Sp. p. 7286; Gaz. vol. 160; p. 1237.

Alphabetical list of patentees—Continued.

Harwell, Jerry. (See Troutt, Martin E., assignor.)
Harwell, Marvin E., De Kalb, Tex. Stamp-affixer. No. 967,767; Aug. 16; Sp. p. 4097; Gaz. vol. 157; p. 702.
Harwood, Sumpter L., assignor of one-half to J. M. Finn, Dublin, Ga. Shearing device. No. 972,189; Oct. 11; Sp. p. 1479; Gaz. vol. 159; p. 263.
Háry, Julius, Budapest, Austria-Hungary. Paddle. No. 948,856; Feb. 8; Sp. p. 2276; Gaz. vol. 151; p. 387.
Hasbrouck, John J. C., New York, N. Y. Wood flooring. No. 972,529; Oct. 11; Sp. p. 2212; Gaz. vol. 159; p. 382.
Hasch, Frederick W., Cecil, Ohio, assignor of one-half to T. D. Poxson, Lansing, Mich. Grain-separating screen. No. 947,697; Jan. 25; Sp. p. 5974; Gaz. vol. 150; p. 994.
Haschke, Julius E., Chicago, Ill. Storage battery. No. 947,575; Jan. 25; Sp. p. 5743; Gaz. vol. 150; p. 954.
Hascy, Harvey W., Brookline, Mass. Brush. No. 957,331; May 10; Sp. p. 1809; Gaz. vol. 154; p. 315.
Hase, Takebi, San Francisco, Cal. Clothes-moistening device. No. 951,991; Mar. 15; Sp. p. 3114; Gaz. vol. 152; p. 562.
Hasenbach, Wilhelm, Mannheim, Germany. Making sodium carbonate. No. 951,243; Mar. 8; Sp. p. 1570; Gaz. vol. 152; p. 282.
Hasenpflug, Ezra W., assignor to The Champion Safety Lock Company, Geneva, Ohio. Door-holder. No. 966,913; Aug. 9; Sp. p. 2338; Gaz. vol. 157; p. 384.
Haskell, Broderick, Franklin, Pa. Telegraph-pole and the like. No. 969,859; Sept. 13; Sp. p. 1555; Gaz. vol. 158; p. 267.
Haskell, Broderick, Franklin, Pa. Telegraph-pole and the like. No. 969,860; Sept. 13; Sp. p. 1556; Gaz. vol. 158; p. 268.
Haskell, Broderick, Franklin, Pa. Brake-beam. No. 969,861; Sept. 13; Sp. p. 1557; Gaz. vol. 158; p. 268.
Haskell, Broderick, Franklin, Pa. Telegraph-pole and the like. No. 969,862; Sept. 13; Sp. p. 1558; Gaz. vol. 158; p. 268.
Haskell, Broderick, Franklin, Pa. Telegraph-pole and the like. No. 969,863; Sept. 13; Sp. p. 1560; Gaz. vol. 158; p. 268.
Haskell, Broderick, Franklin, Pa., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 979,668; Dec. 27; Sp. p. 4856; Gaz. vol. 161; p. 851.
Haskell, Byron W., and S. B. McCrea, Oakland, Cal. Carfender. No. 977,867; Dec. 6; Sp. p. 973; Gaz. vol. 161; p. 153.
Haskell, Edward H., *et al.* (See Dawes, Robert, assignor.)
Haskell, Frank H., Boston, assignor of one-third to T. J. Smith and one-third to G. S. Githens, Dorchester, Mass. Reel-holder for fishing-rods. No. 951,731; Mar. 8; Sp. p. 2559; Gaz. vol. 152; p. 444.
Haskell, Olcott, San Rafael, Cal. Vertical-filing compressor. No. 948,857; Feb. 8; Sp. p. 2277; Gaz. vol. 151; p. 387.
Haskell, Sprague F., assignor to The International Metal Weather Strip Company, St. Louis, Mo. Weather-strip. No. 971,374; Sept. 27; Sp. p. 4731; Gaz. vol. 158; p. 827.
Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Organ-pipe. No. 965,896; Aug. 2; Sp. p. 107; Gaz. vol. 157; p. 18.
Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Organ-pipe with qualifying-tubes. No. 965,897; Aug. 2; Sp. p. 111; Gaz. vol. 157; p. 18.
Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Organ-pipe. No. 965,898; Aug. 2; Sp. p. 113; Gaz. vol. 157; p. 19.
Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Organ-pipe. No. 967,911; Aug. 23; Sp. p. 4391; Gaz. vol. 157; p. 773.
Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Organ-pipe. No. 971,502; Sept. 27; Sp. p. 4958; Gaz. vol. 158; p. 868.
Haskins, Bradley, Milwaukee, Wis., assignor to Allis-Chalmers Company. Resistance-grid. No. 945,092; Jan. 4; Sp. p. 181; Gaz. vol. 150; p. 31.
Haskins, Caryl D., Schenectady, N. Y., assignor to General Music Supply Company. Attachment for self-playing musical instruments. No. 961,295; June 14; Sp. p. 2158; Gaz. vol. 155; p. 385.
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Maximum-indicator for measuring instruments. No. 963,147; July 5; Sp. p. 314; Gaz. vol. 156; p. 43.
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Electric heater. No. 963,892; July 12; Sp. p. 1933; Gaz. vol. 156; p. 317.
Haskins, Robert E., Danbury, Conn. Automatic door-catch. No. 952,735; Mar. 22; Sp. p. 4642; Gaz. vol. 152; p. 841.
Haslup, C. L., *et al.* (See Haslup, William, assignor.)
Haslup, William, Sidney, Ohio, assignor to Sidney Steel Scraper Company. Vehicle-wheel. No. 977,737; Dec. 6; Sp. p. 700; Gaz. vol. 161; p. 109.
Haslup, William, assignor of one-fourth to C. L. Haslup, one-fourth to M. Haslup, and one-fourth to C. M. Gearhart, Sidney, Ohio. Lifting-jack. No. 974,768; Nov. 1; Sp. p. 1562; Gaz. vol. 160; p. 241.
Hasman, Bernard, Jr., Lindsay, Nebr. Watering-trough. No. 976,874; Nov. 29; Sp. p. 6143; Gaz. vol. 160; p. 1059.
Hasper, Arend, Westfield, N. D. Grain-stacker. No. 971,995; Oct. 4; Sp. p. 1075; Gaz. vol. 159; p. 180.
Hass, John C., and F. E. Mefford, Colorado Springs, Colo. Refrigerator. No. 948,880; Feb. 8; Sp. p. 2316; Gaz. vol. 151; p. 394.
Hassack, Paul, Union Hill, assignor to C. Schwarzkopf, Weehawken, N. J. Manufacture of artificial stone. No. 968,943; Aug. 30; Sp. p. 6617; Gaz. vol. 157; p. 1152.
Hassel, Gustav A., McKeesport, assignor to Pittsburgh Track Specialty Company, Pittsburg, Pa. Railway-tie plate. No. 949,270; Feb. 15; Sp. p. 3125; Gaz. vol. 151; p. 551.
Hassel, Gustav A., McKeesport, assignor to Pittsburgh Steel Foundry, Pittsburg, Pa. Abrading apparatus. No. 963,437; July 5; Sp. p. 956; Gaz. vol. 156; p. 142.
Hassel, Nels H., Los Angeles, Cal. Resilient tire. No. 973,781; Oct. 25; Sp. p. 4969; Gaz. vol. 159; p. 864.
Hasselberger, Friedrich, Munich, Germany. Pen and pencil box. No. 970,049; Sept. 13; Sp. p. 1962; Gaz. vol. 158; p. 333.
Hassell, Lars K., and C. Hanson, Grand Forks, N. D. Railway mail delivering and receiving apparatus. No. 972,530; Oct. 11; Sp. p. 2213; Gaz. vol. 159; p. 382.
Hasselmann, Fritz, Munich, Germany. Wood-preserving solution. No. 971,194; Sept. 27; Sp. p. 4380; Gaz. vol. 158; p. 769.
Hassett, Edmund J., *et al.* (See Hunt and La May, assignors.)
Hassing, Jens M. W., and J. V. Fitzsimmons, San Francisco, Cal. Wrecking apparatus. No. 959,526; May 31; Sp. p. 6717; Gaz. vol. 154; p. 1143.
Hast, O., *et al.* (See Fox, Charles E., assignor.)
Hastings, Charles B., New York, N. Y. Adjustable post for ratchet-drills. No. 980,100; Dec. 27; Sp. p. 5802; Gaz. vol. 161; p. 995.
Hastings, Cornelius C., assignor to Milton Bradley Company, Springfield, Mass. Drawing-board. No. 963,438; July 5; Sp. p. 957; Gaz. vol. 156; p. 143.
Hastings, Cornelius C., assignor to Milton Bradley Company, Springfield, Mass. Locking device for legs of tables. No. 963,439; July 5; Sp. p. 958; Gaz. vol. 156; p. 143.
Hastings, Herbert, Rochester, N. Y. Sawing-machine. No. 976,075; Nov. 15; Sp. p. 4335; Gaz. vol. 160; p. 736.
Hastings, Herbert, assignor to German-American Button Co., Rochester, N. Y. Separating-machine. No. 957,332; May 10; Sp. p. 1810; Gaz. vol. 154; p. 315.
Hastings, Ruben C. M., and T. Matheny, Athens, Ohio. Telephony. No. 951,527; Mar. 8; Sp. p. 2166; Gaz. vol. 152; p. 376.
Hastings, Vernon C., *et al.* (See Wolf, George P., assignor.)
Hastings, W. H. H., *et al.* (See Williams, Walter S., assignor.)
Haswell, William S., Denver, Colo. Orchard-heater. No. 945,529; Jan. 4; Sp. p. 1129; Gaz. vol. 150; p. 174.
Hatch, Ernest M. (See Stowby and Hatch.)
Hatch, Francis E., Pellston, Mich. Apparatus for treating ores. No. 946,727; Jan. 18; Sp. p. 3826; Gaz. vol. 150; p. 639.
Hatch, Fred J., Racine, Wis. Device for filling pipe-joints. No. 948,686; Feb. 8; Sp. p. 1920; Gaz. vol. 151; p. 329.
Hatch, Frederick G., assignor to The Anderston Foundry Company Limited. Glasgow, Scotland. Internal-combustion engine. No. 945,233; Jan. 4; Sp. p. 469; Gaz. vol. 150; p. 78.
Hatch, Orville C., Seattle, Wash. Valve for steam-heating systems. No. 951,563; Mar. 8; Sp. p. 2237; Gaz. vol. 152; p. 388.
Hatch, William N. (See Nicholson, John S. A., assignor.)
Hatchell, Benjamin, Crockett, Tex. Animal-trap. No. 978,742; Dec. 13; Sp. p. 2872; Gaz. vol. 161; p. 486.
Hatfield, Henry, assignor to Schott & Gen., Jena, Germany. Electrolytic apparatus with annular anode. No. 961,124; June 14; Sp. p. 1788; Gaz. vol. 155; p. 324.
Hatfield, Henry, assignor to Schott & Gen., Jena, Germany. Electrolytic apparatus. No. 961,125; June 14; Sp. p. 1789; Gaz. vol. 155; p. 324.
Hatfield, Henry S., Hove, England. Electrical resistance, contact, and the like. No. 978,022; Dec. 6; Sp. p. 1293; Gaz. vol. 161; p. 207.
Hatfield, Ulcy R., Macon, Ga. Rail-joint. No. 959,218; May 24; Sp. p. 6072; Gaz. vol. 154; p. 1015.
Hathaway, Edgar F. (See Field, Lanning, Hathaway, and Blanchard.)
Hathaway, Edward. (See Cummings and Hathaway.)
Hathhorne, Robert A., Houston, Tex. Station-indicator. No. 966,914; Aug. 9; Sp. p. 2339; Gaz. vol. 157; p. 384.
Hatlelid, Ole, Lignite, N. D. Plow attachment. No. 974,377; Nov. 1; Sp. p. 679; Gaz. vol. 160; p. 102.
Hatmaker, Charles F., New York, N. Y., assignor to Gilbert & Barker Manufacturing Company. Self-measuring pump. No. 954,097; Apr. 5; Sp. p. 844; Gaz. vol. 153; p. 146.
Hatosy, Louis G., Jr., New York, N. Y. Glass-cleaner. No. 975,862; Nov. 15; Sp. p. 3939; Gaz. vol. 160; p. 663.

Alphabetical list of patentees—Continued.

Hatschek, Ludwig, Vocklabruck, Austria-Hungary. Facilitating and accelerating the hardening of hydraulic cements. No. 974,138; Nov. 1; Sp. p. 62; Gaz. vol. 160; p. 13.

Hatt, George, Detroit, Mich. Cloth sponging and refinishing machine. No. 969,864; Sept. 13; Sp. p. 1561; Gaz. vol. 158; p. 269.

Hattersley, George A., Norwood, assignor to The Victor Safe & Lock Co., Cincinnati, Ohio. Vault and strong-room door. No. 961,227; June 14; Sp. p. 2002; Gaz. vol. 155; p. 361.

Hatton, Edgar, assignor of one-fourth to E. J. Krampff and one-fourth to S. F. Kyle, Havana, Ill. Ice-cutting machine. No. 964,104; July 12; Sp. p. 2376; Gaz. vol. 156; p. 389.

Hatz, George J., Omaha, Nebr. Locomotive. No. 974,486; Nov. 1; Sp. p. 951; Gaz. vol. 160; p. 141.

Hatz, William H. (See Reuter and Hatz.)

Hauck, Alexander M., Seattle, Wash. Harrow. No. 948,276; Feb. 1; Sp. p. 1012; Gaz. vol. 151; p. 166.

Hauck, Arthur E., New York, N. Y. Oil-burner. No. 951,394; Mar. 8; Sp. p. 1903; Gaz. vol. 152; p. 331.

Hauck, Louis A., Cincinnati, Ohio. Switch for electric tools. No. 967,190; Aug. 16; Sp. p. 2932; Gaz. vol. 157; p. 507.

Haudenschild, Harry, assignor of one-half to G. C. Smith, Toledo, Ohio. Oil-shield. No. 973,114; Oct. 18; Sp. p. 3528; Gaz. vol. 159; p. 610.

Haudenshield, Samuel, Carnegie, Pa. Rotary engine. No. 978,743; Dec. 13; Sp. p. 2874; Gaz. vol. 161; p. 487.

Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaner. No. 945,124; Jan. 4; Sp. p. 238; Gaz. vol. 150; p. 41.

Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaner for water-tubes in steam-boilers. No. 945,125; Jan. 4; Sp. p. 240; Gaz. vol. 150; p. 41.

Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Turbine. No. 951,115; Mar. 8; Sp. p. 1319; Gaz. vol. 152; p. 242.

Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaner. No. 958,118; May 17; Sp. p. 3643; Gaz. vol. 154; p. 614.

Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaning apparatus. No. 979,295; Dec. 20; Sp. p. 4084; Gaz. vol. 161; p. 703.

Hauer, Joseph, assignor to J. L. Deimel, Chicago, Ill. Hinge. No. 975,131; Nov. 8; Sp. p. 2392; Gaz. vol. 160; p. 388.

Haugeland, Knute, Ellsworth, Iowa. Bottle-stopper. No. 951,528; Mar. 8; Sp. p. 2171; Gaz. vol. 152; p. 377.

Haughawout, W. Roscoe, *et al.* (See Pickering, Abel W., assignor.)

Haugwitz, Rudolf, Friedrichshagen, near Berlin, Germany, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Sulfur dye and making same. No. 958,640; May 17; Sp. p. 4835; Gaz. vol. 154; p. 794.

Hauk, George J., Mount Vernon, Ind. Gambrel. No. 974,881; Nov. 8; Sp. p. 1817; Gaz. vol. 160; p. 302.

Hauk, Joseph, Jr., assignor to Twentieth Century Machinery Company, Milwaukee, Wis. Bottle-washing machine. No. 947,775; Jan. 25; Sp. p. 6114; Gaz. vol. 150; p. 1019.

Haultain, Herbert E. T., Toronto, Ontario, Canada. Reducing metallic oxid ores. No. 950,595; Mar. 1; Sp. p. 273; Gaz. vol. 152; p. 45.

Haupt, George, Melrose, Minn. Sash holder and fastener. No. 953,086; Mar. 29; Sp. p. 5390; Gaz. vol. 152; p. 988.

Haus, Henry, Pope Valley, Cal. Shearing-machine. No. 961,495; June 14; Sp. p. 2597; Gaz. vol. 155; p. 453.

Haus, John N., New York, N. Y. Wind-shield for automobiles. No. 956,964; May 3; Sp. p. 1018; Gaz. vol. 154; p. 159.

Hausdorf, Robert, Bochum, Germany. Apparatus for discharging liquids from barrels into storage-receptacles. No. 946,039; Jan. 11; Sp. p. 2286; Gaz. vol. 150; p. 380.

Hausdorf, Robert, Bochum, Germany. Apparatus for storage and delivery of inflammable liquids. No. 977,188; Nov. 29; Sp. p. 6889; Gaz. vol. 160; p. 1169.

Hausdorfer, Reinhold G., and J. E. Murray, Toledo, Ohio. Keyhole-guide. No. 948,446; Feb. 8; Sp. p. 1400; Gaz. vol. 151; p. 249.

Hause, George W., assignor to G. R. Paine, Philadelphia, Pa. Builder's jack. No. 945,162; Jan. 4; Sp. p. 321; Gaz. vol. 150; p. 54.

Hauser, Albert H., Defiance, Ohio. Ironing-table. No. 949,894; Feb. 22; Sp. p. 4459; Gaz. vol. 151; p. 797.

Hauser, John, Chesley, Ontario, Canada. Woodworking-shaper. No. 953,949; Apr. 5; Sp. p. 523; Gaz. vol. 153; p. 95.

Hauser, Julius, Los Angeles, Cal. Indelibly marking meats. No. 958,960; May 24; Sp. p. 5538; Gaz. vol. 154; p. 930.

Hauser, Leopold, assignor of one-half to S. Weil, New York, N. Y. Belt pin or buckle. No. 959,340; May 24; Sp. p. 6322; Gaz. vol. 154; p. 1057.

Hauser, Martin, Toledo, Ohio. Hinge. No. 947,304; Jan. 25; Sp. p. 5108; Gaz. vol. 150; p. 862.

Hauser, Theodore, Chicago, Ill., assignor to The Garvy Company. Leaf-support. No. 971,747; Oct. 4; Sp. p. 500; Gaz. vol. 159; p. 87.

Hauser, Theodore, assignor to The Garvy Company, Chicago, Ill. Leaf-support. No. 971,840; Oct. 4; Sp. p. 690; Gaz. vol. 159; p. 121.

Hauser, Theodore, assignor to The Garvy Company, Chicago, Ill. Leaf-support. No. 975,766; Nov. 15; Sp. p. 3742; Gaz. vol. 160; p. 630.

Hausfeld, Joseph E., *et al.* (See Mieth, Otto F., assignor.)

Hausler, August II., South Chicago, Ill. Steam-boiler furnace. No. 971,996; Oct. 4; Sp. p. 1077; Gaz. vol. 159; p. 180.

Hausman, John. (See Blevney and Hausman.)

Hausman, John, and J. C. Blevney, Newark, N. J., assignors to The Atha Tool Company. Grinding and polishing machine. No. 953,031; Mar. 29; Sp. p. 5261; Gaz. vol. 152; p. 970.

Hauss, David J., Aurora, Ind. Electrical piano. No. 974,963; Nov. 8; Sp. p. 2020; Gaz. vol. 160; p. 331.

Häusser, Friedrich, Kaiserslautern, Germany. Making nitric acid. No. 961,350; June 14; Sp. p. 2292; Gaz. vol. 155; p. 405.

Haussmann, Emil, Treptow, near Berlin, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Compound of sulfur dyes soluble in water. No. 953,008; Mar. 22; Sp. p. 5207; Gaz. vol. 152; p. 934.

Haussmann, Herman F., New York, N. Y. Waxing device. No. 946,436; Jan. 11; Sp. p. 3224; Gaz. vol. 150; p. 518.

Haussner, Konrad, Eisenach, Germany. Retarding apparatus for guns having differential recoil. No. 955,795; Apr. 19; Sp. p. 4534; Gaz. vol. 153; p. 783.

Haussner, Konrad, Eisenach, Germany. Retarding apparatus for guns having differential recoil. No. 955,796; Apr. 19; Sp. p. 4536; Gaz. vol. 153; p. 784.

Haussner, Konrad, Eisenach, Germany. Retarding apparatus for guns having differential recoil. No. 955,797; Apr. 19; Sp. p. 4538; Gaz. vol. 153; p. 784.

Haussner, Konrad, Eisenach, Germany. Differential-recoil gun. No. 958,119; May 17; Sp. p. 3645; Gaz. vol. 154; p. 615.

Hauty, Albert A., Chicago, Ill. Holder and measuring device for granular material. No. 950,286; Feb. 22; Sp. p. 5323; Gaz. vol. 151; p. 933.

Havard, Albert H., Urbana, Ill. Railway-crossing. No. 950,287; Feb. 22; Sp. p. 5324; Gaz. vol. 151; p. 933.

Havecotte, John H., Somerville, Tex. Combined ironing-board and washstand. No. 950,104; Feb. 22; Sp. p. 4939; Gaz. vol. 151; p. 869.

Haven, Daniel P. (See Kuebodeaux, John, assignor.)

Havener, Arthur R., Waltham, Mass., assignor to Judson L. Thomson M'fg Co. Single-head multiple rivet-setting machine. No. 959,738; May 31; Sp. p. 7152; Gaz. vol. 154; p. 1214.

Havener, Arthur R., Waltham, Mass., assignor to American Lacing Hook Co. Machine for setting lacing-hooks. No. 977,090; Nov. 29; Sp. p. 6650; Gaz. vol. 160; p. 1134.

Havens, Franke S., Hartford, Conn., assignor to Harrison Bros. & Co., Inc., Philadelphia, Pa. Carboy. No. 947,749; Jan. 25; Sp. p. 6064; Gaz. vol. 150; p. 1012.

Havens, R. M. (See Higgins, Albert G., assignor.)

Havens, Seyd, Oakland, Cal. Rubber heel. No. 957,556; May 10; Sp. p. 2262; Gaz. vol. 154; p. 391.

Havenstrite, David J., Newark, N. J. Apparatus for making plate-ice. No. 967,191; Aug. 16; Sp. p. 2933; Gaz. vol. 157; p. 507.

Haverly, Sidney, Seattle, Wash. Cable-roller. No. 964,019; July 12; Sp. p. 2195; Gaz. vol. 156; p. 360.

Haw, Charles K., and J. K. Southee, Kansas City, Kans. Shoe-cleaner. No. 977,091; Nov. 29; Sp. p. 6661; Gaz. vol. 160; p. 1134.

Hawk, Edward I., Sunlight, Colo. Pencil-box. No. 955,399; Apr. 19; Sp. p. 3690; Gaz. vol. 153; p. 649.

Hawk, Joseph V. (See Covert, William L., assignor.)

Hawk, Ross C., Pittsburg, Pa. Gas-burner. No. 973,040; Oct. 18; Sp. p. 3380; Gaz. vol. 159; p. 585.

Hawker, Wilson S., Dayton, Ohio. Turning-machine head. No. 949,765; Feb. 22; Sp. p. 4148; Gaz. vol. 151; p. 750.

Hawkes, Charles W., Chicago, Ill. Steam-boiler. No. 951,813; Mar. 15; Sp. p. 2747; Gaz. vol. 152; p. 502.

Hawkes, Frederic W., New York, N. Y. Revetment. No. 954,283; Apr. 5; Sp. p. 1248; Gaz. vol. 153; p. 207.

Hawkins, Budd D., Reading, Vt. Seed shipping and display case. No. 969,056; Aug. 30; Sp. p. 6837; Gaz. vol. 157; p. 1191.

Hawkins, Charles O. (See Bartles and Hawkins.)

Hawkins, Charles O., Chesterhill, Ohio. Stop-valve. No. 971,446; Sept. 27; Sp. p. 4856; Gaz. vol. 158; p. 850.

Hawkins, Edward C., Pittsburg, Pa. Sharpening and grinding tool. No. 950,914; Mar. 1; Sp. p. 948; Gaz. vol. 152; p. 151.

Hawkins, Elbert E., Sidney, N. Y. Handle for saws. No. 966,543; Aug. 9; Sp. p. 1529; Gaz. vol. 157; p. 261.

Hawkins, Elwood, St. Michael, Alaska. Safety winding device. No. 970,221; Sept. 13; Sp. p. 2323; Gaz. vol. 158; p. 390.

Hawkins, Francis F., Troy, N. Y. Flushing device. No. 946,130; Jan. 11; Sp. p. 2458; Gaz. vol. 150; p. 410.

Hawkins, Frederick W., and G. F. Key, assignors to The Globe Steel Filtration Process Company, Detroit, Mich. Refining iron. No. 949,474; Feb. 15; Sp. p. 3559; Gaz. vol. 151; p. 620.

Alphabetical list of patentees—Continued.

Hawkins, Frederick W., and G. F. Key, assignors to The Globe Steel Filtration Process Company, Detroit, Mich. Iron-refining furnace. No. 949,475; Feb. 15; Sp. p. 3561; Gaz. vol. 151; p. 620.

Hawkins, Fredrick L., Mishawaka, Ind. Noodle-cutter. No. 958,809; May 24; Sp. p. 5205; Gaz. vol. 154; p. 878.

Hawkins, James E., Oklahoma, Okla. Door-fastener. No. 954,432; Apr. 12; Sp. p. 1549; Gaz. vol. 153; p. 285.

Hawkins, John K., Mohawk, assignor of one-half to A. I. Smith, Knoxville, Tenn. Steam cooker and canner. No. 947,062; Jan. 18; Sp. p. 4567; Gaz. vol. 150; p. 753.

Hawkins, John M., S. E. Adkins, and W. C. Call, Spencer, Ind. Lifting-jack. No. 957,333; May 10; Sp. p. 1813; Gaz. vol. 154; p. 316.

Hawkins, John W. (See Grose and Hawkins.)

Hawkins, John W., New Durham, N. H. Skirt-measuring device. No. 978,155; Dec. 13; Sp. p. 1600; Gaz. vol. 161; p. 284.

Hawkins, Joseph B., London, England. Buckle. No. 976,799; Nov. 22; Sp. p. 5971; Gaz. vol. 160; p. 1008.

Hawkins, Joseph N., Mannington, W. Va. Oil-cup. No. 960,172; May 31; Sp. p. 8104; Gaz. vol. 154; p. 1363.

Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 949,322; Feb. 15; Sp. p. 3224; Gaz. vol. 151; p. 568.

Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Synchronous machine. No. 952,113; Mar. 15; Sp. p. 3343; Gaz. vol. 152; p. 602.

Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 953,202; Mar. 29; Sp. p. 5645; Gaz. vol. 152; p. 1026.

Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Relay for block-signal systems. No. 967,192; Aug. 16; Sp. p. 2934; Gaz. vol. 157; p. 507.

Hawkins-Masters, Arthur, London, Ontario, Canada. Revolving grate for stoves, ranges, and furnaces. No. 953,141; Mar. 29; Sp. p. 5518; Gaz. vol. 152; p. 1006.

Hawkins, Warren I. (See Gibson, Irvin, assignor.)

Hawkins, William J., Elgin, Ill. Threshing-machine. No. 955,511; Apr. 19; Sp. p. 3917; Gaz. vol. 153; p. 687.

Hawkins, William W., Cleveland, Ohio. Intercommunicating telephone system. No. 964,513; July 19; Sp. p. 3217; Gaz. vol. 156; p. 556.

Hawley, Adelbert, Elmira Heights, assignor of one-fourth to L. E. Hawley, Bath, N. Y., and one-fourth to H. Boulio, Potter Brook, Pa. Railway-tie. No. 972,694; Oct. 11; Sp. p. 2573; Gaz. vol. 159; p. 438.

Hawley, Charles G., and E. K. Baker, Chicago, Ill. Muffler. No. 972,190; Oct. 11; Sp. p. 1481; Gaz. vol. 159; p. 264.

Hawley, Cornell S. (See Butt, Frederic W., assignor.)

Hawley, De Witt, Rochester, N. Y., assignor of one-half to E. F. Hawley, Pittsford, N. Y. Washing-machine. No. 954,802; Apr. 12; Sp. p. 2423; Gaz. vol. 153; p. 414.

Hawley, De Witt, assignor to W. E. Williams, Rochester, N. Y. Washing-machine. No. 976,362; Nov. 22; Sp. p. 5052; Gaz. vol. 160; p. 857.

Hawley, Estelle F. (See Hawley, De Witt, assignor.)

Hawley, Herman. (See Schloss and Hawley.)

Hawley, John I., Plymouth, Wash. Current-motor. No. 954,626; Apr. 12; Sp. p. 1993; Gaz. vol. 153; p. 352.

Hawley, L. Estelle, *et al.* (See Hawley, Adelbert, assignor.)

Hawley, Melville C., St. Louis, Mo. Combined sectional boiler and furnace. No. 950,915; Mar. 1; Sp. p. 949; Gaz. vol. 152; p. 152.

Hawley, Melville C., assignor to J. H. Kinealy, St. Louis, Mo. Door for boiler-furnaces. No. 945,943; Jan. 11; Sp. p. 2089; Gaz. vol. 150; p. 348.

Hawley, Theodore, administrator. (See Strasburg, Frederick E.)

Hawley Time Register Company. (See Hawley, William D., assignor.)

Hawley, William D., assignor to Hawley Time Register Company, Syracuse, N. Y. Time-recorder. No. 949,232; Feb. 15; Sp. p. 3033; Gaz. vol. 151; p. 538.

Hawley, William D., assignor to Hawley Time Register Company, Syracuse, N. Y. Time-recorder. No. 969,370; Sept. 6; Sp. p. 472; Gaz. vol. 158; p. 76.

Hawthorne, John L., Paterson, N. J. Propeller-guard. No. 951,608; Mar. 8; Sp. p. 2316; Gaz. vol. 152; p. 402.

Hawthorne & Sheble Manufacturing Company. (See Kraemer, Thomas, assignor.)

Hawthorne & Sheble Manufacturing Company. (See Morton, Baxter, assignor.)

Hawthorne & Sheble Manufacturing Company. (See Sheble and Kraemer, assignors.)

Hawthorne, Thomas, assignor of one-half to G. S. Trudell, London, Ontario, Canada. Core-box for forming globe-valve cores. No. 973,504; Oct. 25; Sp. p. 4393; Gaz. vol. 159; p. 768.

Hawxhurst, Henry I., assignor to Hawxhurst Wind Turbine Power Company, Los Angeles, Cal. Windmill. No. 965,387; July 26; Sp. p. 5150; Gaz. vol. 156; p. 883.

Hawxhurst Wind Turbine Power Company. (See Hawxhurst, Henry I., assignor.)

Hax, Edward V., Baltimore, Md. Strainer. No. 948,421; Feb. 8; Sp. p. 1348; Gaz. vol. 151; p. 241.

Haxthausen, Frederic C. von, St. Petersburg, Russia, assignor to Flotteur Gesellschaft mit beschraenkter Haftung. Lubricator. No. 976,076; Nov. 15; Sp. p. 4336; Gaz. vol. 160; p. 736.

Hay, Edgar P., Somerville, Mass., assignor to The American Paper Goods Company, Montclair, N. J. Pocketed receptacle. No. 951,814; Mar. 15; Sp. p. 2749; Gaz. vol. 152; p. 502.

Hay, Howard M., assignor to Cushion Crown-Arch Key Company, Chicago, Ill. Cushion-key for writing-machines. No. 974,487; Nov. 1; Sp. p. 954; Gaz. vol. 160; p. 141.

Hay, Howard M., assignor to Cushion Crown-Arch Key Company, Chicago, Ill. Cushion-cap for finger-keys. No. 974,488; Nov. 1; Sp. p. 955; Gaz. vol. 160; p. 142.

Hay, Lewis, Pittsburg, Pa. Curtain-pole. No. 962,344; June 21; Sp. p. 4423; Gaz. vol. 155; p. 762.

Hay, Marley F., assignor to Whitehead & Company, Fiume, Austria-Hungary. Device for regulating the submersion of submarine boats and the like. No. 977,951; Dec. 6; Sp. p. 1143; Gaz. vol. 161; p. 184.

Hay, Walter, Seville, Ohio, assignor to T. F. Stroud, Omaha, Nebr. Grading and ditching machine. No. 948,816; Feb. 8; Sp. p. 2203; Gaz. vol. 151; p. 374.

Hay, William G., Tuebrook, Liverpool, England. Steam-generator. No. 966,201; Aug. 2; Sp. p. 774; Gaz. vol. 157; p. 122.

Hay, William L., Franklin, Tenn. Concave for threshing-machines. No. 948,277; Feb. 1; Sp. p. 1013; Gaz. vol. 151; p. 166.

Hayden, Arthur C., Brockton, Mass. Developing apparatus. No. 976,173; Nov. 22; Sp. p. 4603; Gaz. vol. 160; p. 792.

Hayden, Arthur C., Brockton, Mass. Tire-support. No. 976,736; Nov. 22; Sp. p. 5818; Gaz. vol. 160; p. 986.

Hayden, Arthur C., Brockton, Mass. Film-developer. No. 976,800; Nov. 22; Sp. p. 5972; Gaz. vol. 160; p. 1008.

Hayden, Arthur C., Brockton, Mass. Razor-stropper. No. 977,868; Dec. 6; Sp. p. 974; Gaz. vol. 161; p. 154.

Hayden, Arthur C., Brockton, Mass. Developing-tank for photographic films. No. 978,156; Dec. 13; Sp. p. 1601; Gaz. vol. 161; p. 284.

Hayden, Edwin J., and J. R. Gordon, Minneapolis, Minn. Suspenders. No. 979,947; Dec. 27; Sp. p. 5471; Gaz. vol. 161; p. 945.

Hayden, Frank, Otsego, Ohio. Grinding and polishing machine. No. 976,875; Nov. 29; Sp. p. 6145; Gaz. vol. 160; p. 1059.

Hayden, George D. (See York and Hayden.)

Hayden, George D., assignor of one-half to C. R. Hunt, New Bedford, Mass. Variable-speed mechanism. No. 977,449; Dec. 6; Sp. p. 47; Gaz. vol. 161; p. 10.

Hayden, James G., New Lexington, Ohio. Boiler. No. 952,429; Mar. 15; Sp. p. 3952; Gaz. vol. 152; p. 708.

Hayden, James G., New Lexington, Ohio. Boiler. No. 976,650; Nov. 22; Sp. p. 5671; Gaz. vol. 160; p. 958.

Hayden, James R., Latouche, Alaska. Sock. No. 974,058; Oct. 25; Sp. p. 5538; Gaz. vol. 159; p. 960.

Hayden, John W. (See Wynn, Robert E., assignor.)

Hayden, Joseph L. R., Schenectady, N. Y., assignor to General Electric Company. Electrolytic cell. No. 946,040; Jan. 11; Sp. p. 2287; Gaz. vol. 150; p. 380.

Hayden, Kate B., Columbus, Ohio. Infant-weighing device. No. 945,530; Jan. 4; Sp. p. 1130; Gaz. vol. 150; p. 174.

Haydon, Noah, *et al.* (See Fuller, Henry W., assignor.)

Haye, Frederick, and C. Wessels, Woodhaven, N. Y. Gramophone. No. 962,833; June 28; Sp. p. 5473; Gaz. vol. 155; p. 956.

Hayes, Arthur S. (See Hayes, James F. and A. S.)

Hayes Brothers. (See Hayes, Joseph G., assignor.)

Hayes, Charles, Jr., Utica, N. Y. Grinding-machine. No. 961,774; June 21; Sp. p. 3171; Gaz. vol. 155; p. 569.

Hayes, Charles M. (See Jenkins, Edson W., assignor.)

Hayes, Forrest G., Sharon, Pa. Tree-sprayer. No. 950,916; Mar. 1; Sp. p. 951; Gaz. vol. 152; p. 152.

Hayes, Frank A., New York, N. Y. Electric-motor-controlling device. No. 948,374; Feb. 8; Sp. p. 1252; Gaz. vol. 151; p. 226.

Hayes, Frank E., assignor of one-half to E. S. McPherson, Boston, Mass. Toy. No. 979,486; Dec. 27; Sp. p. 4462; Gaz. vol. 161; p. 788.

Hayes, Frank F. (See Bluff, John T., assignor.)

Hayes, Frank P., Brooklyn, assignor to Auto Armor Company, New York, N. Y. Tire-protector. No. 949,572; Feb. 15; Sp. p. 3760; Gaz. vol. 151; p. 653.

Hayes, Frederick C., Battle Creek, Mich. Cigar banding or labeling machine. No. 969,057; Aug. 30; Sp. p. 6838; Gaz. vol. 157; p. 1191.

Hayes, Frederick C., Battle Creek, Mich. Cigar labeling or banding machanism. No. 969,103; Aug. 30; Sp. p. 6932; Gaz. vol. 157; p. 1207.

Hayes, Garfield H., Franklin, assignor to Sterling Oil Engine Company, Pittsburg, Pa. Governing mechanism for explosive-engines. No. 960,173; May 31; Sp. p. 8105; Gaz. vol. 154; p. 1363.

Hayes, George B., Denver, Colo. Apparatus for generating motive-fluid. No. 976,077; Nov. 15; Sp. p. 4337; Gaz. vol. 160; p. 737.

Hayes, George D., Davenport, Iowa. Wire stretcher and splicer. No. 977,869; Dec. 6; Sp. p. 976; Gaz. vol. 161; p. 154.
Hayes, Harley H., St. Paul, Minn., assignor of one-half to B. C. Beckman, Naperville, Ill. Rope-measuring mechanism. No. 960,321; June 7; Sp. p. 158; Gaz. vol. 155; p. 30.
Hayes, James F., Soquel, and A. S. Hayes, Stockton, Cal. Base-ball-game apparatus. No. 965,627; July 26; Sp. p. 5705; Gaz. vol. 156; p. 969.
Hayes, James P., Meriden, Conn. Breech mechanism for firearms. No. 973,655; Oct. 25; Sp. p. 4716; Gaz. vol. 159; p. 820.
Hayes, Jesse W., assignor of one-half to L. Steppacher, Baltimore, Md. Combined pencil-holder and inhaler. No. 973,427; Oct. 18; Sp. p. 4221; Gaz. vol. 159; p. 719.
Hayes, John H., Lesslie, S. C. Rail-joint. No. 950,668; Mar. 1; Sp. p. 440; Gaz. vol. 152; p. 71.
Hayes, John H., Lesslie, S. C. Fire-alarm. No. 955,798; Apr. 19; Sp. p. 4539; Gaz. vol. 153; p. 784.
Hayes, Joseph G., assignor to Hayes Brothers, Inc., Indianapolis, Ind. Cesspool and trap. No. 947,817; Feb. 1; Sp. p. 66; Gaz. vol. 151; p. 14.
Hayes, Richard, New York, N. Y. Gasolene-tank for automobiles. No. 976,460; Nov. 22; Sp. p. 5262; Gaz. vol. 160; p. 893.
Hayes, Robert D., New Haven, Conn. Drawer for card-catalogues. No. 965,517; July 26; Sp. p. 5449; Gaz. vol. 156; p. 929.
Hayes, Stephen Q., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Disconnecting-switch for high-potential circuits. No. 975,422; Nov. 15; Sp. p. 3006; Gaz. vol. 160; p. 512.
Haymaker, Edward C., Youngstown, Ohio. Match-box. No. 968,351; Aug. 23; Sp. p. 5359; Gaz. vol. 157; p. 924.
Haymaker, Kidder V., Defiance, Ohio. Duplex account-book. No. 979,487; Dec. 27; Sp. p. 4463; Gaz. vol. 161; p. 789.
Hayne, Levi. (See Pike and Hayne.)
Hayne, Levi, Schenectady, N. Y., and E. B. Pike, Pike, N. H. Holder for oilstones. No. 955,265; Apr. 19; Sp. p. 3388; Gaz. vol. 153; p. 603.
Hayne, Levi, Schenectady, N. Y., and E. B. Pike, Pike, N. H. Bread-dough mixer. No. 978,372; Dec. 13; Sp. p. 2061; Gaz. vol. 161; p. 360.
Hayner Distilling Company, The. (See Appleton, Alford C., assignor.)
Hayner Distilling Company. (See Church, Edmund S., assignor.)
Hayner, Frank H., and D. O. Baer, Boise, Idaho. Water-wheel. No. 962,345; June 21; Sp. p. 4424; Gaz. vol. 155; p. 762.
Haynes, Davison S., Evansville, Ind. Emblem-fastener. No. 974,059; Oct. 25; Sp. p. 5539; Gaz. vol. 159; p. 960.
Haynes, James S., Marion, Mich. Road grader and leveler. No. 965,628; July 26; Sp. p. 5707; Gaz. vol. 156; p. 970.
Haynes, Richard E., trustee. (See Hardy, Frederick, assignor.)
Haynes, Rousseau F., Lowell, Mass. Magazine-holder. No. 972,531; Oct. 11; Sp. p. 2215; Gaz. vol. 159; p. 383.
Haynes, Wallace D., Oakland, Cal. Propeller. No. 957,056; May 3; Sp. p. 1197; Gaz. vol. 154; p. 190.
Haynes, Walter, Portland, Oreg. Faucet. No. 963,221; July 5; Sp. p. 497; Gaz. vol. 156; p. 69.
Hayot, Louis A., Beauvais, France. Aeroplane. No. 976,876; Nov. 29; Sp. p. 6147; Gaz. vol. 160; p. 1059.
Hays, Clarence W. (See Boyd, James C., assignor.)
Hays, David, assignor to E. B. Stimpson, New York, N. Y. Tire. No. 945,037; Jan. 4; Sp. p. 61; Gaz. vol. 150; p. 11.
Hays, Harold M., New York, N. Y. Collapsible tray. No. 961,228; June 14; Sp. p. 2004; Gaz. vol. 155; p. 362.
Hays, Joseph W., Chicago, Ill., assignor to Carb-Ox Company. Furnace. No. 957,158; May 3; Sp. p. 1396; Gaz. vol. 154; p. 224.
Hays, Oliver A., Southampton, N. Y. Device for facilitating the removal of engine-valves. No. 971,375; Sept. 27; Sp. p. 4733; Gaz. vol. 158; p. 827.
Hays, Solomon B., Buchanan, Tenn. Fireplace-fender. No. 977,388; Nov. 29; Sp. p. 7289; Gaz. vol. 160; p. 1238.
Hayton, Thomas R., Mount Vernon, Wash. Centrifugal force-pump. No. 973,782; Oct. 25; Sp. p. 4970; Gaz. vol. 159; p. 864.
Hayward, Edwin E., assignor to The Plume & Atwood Mfg. Co., Waterbury, Conn. Electric-light fixture. No. 965,710; July 26; Sp. p. 5872; Gaz. vol. 156; p. 997.
Hayward, Edwin E., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Shade-holder. No. 974,568; Nov. 1; Sp. p. 1139; Gaz. vol. 160; p. 171.
Hayward, Eugene, and W. Walter, Sturgis, Mich.; said Hayward assignor to said Walter. Curtain and shade hanger. No. 969,534; Sept. 6; Sp. p. 819; Gaz. vol. 158; p. 129.
Hayward, Judson, North Hackensack, N. J. Excavating apparatus. No. 946,899; Jan. 18; Sp. p. 4259; Gaz. vol. 150; p. 699.
Haywood, Colin L., Sloatsburg, N. Y. Refrigerator. No. 947,576; Jan. 25; Sp. p. 5745; Gaz. vol. 150; p. 954.
Haywood, Daniel H., New York, N. Y. Record for sound-reproducing machines. No. 948,137; Feb. 1; Sp. p. 741; Gaz. vol. 151; p. 121.
Haywood, Daniel H., New York, N. Y., assignor, by mesne assignments, to Carlson Motor & Truck Company, Philadelphia, Pa. Transmission-gearing. No. 970,706; Sept. 20; Sp. p. 3359; Gaz. vol. 158; p. 576.
Haywood, Daniel H., New York, N. Y., assignor, by mesne assignments, to American Gas & Power Co. Carbureter. No. 979,761; Dec. 27; Sp. p. 5074; Gaz. vol. 161; p. 883.
Haywood, John W., Baldwinsville, N. Y. Fifth-wheel for wagons. No. 946,672; Jan. 18; Sp. p. 3713; Gaz. vol. 150; p. 621.
Haywood, John W., New York, N. Y. Time-alarm. No. 951,116; Mar. 8; Sp. p. 1321; Gaz. vol. 152; p. 242.
Haywood, Matthew B., Richmond, Ark. Combination harrow, plow, and hoe. No. 968,475; Aug. 23; Sp. p. 5600; Gaz. vol. 157; p. 967.
Hazard, Samuel B., Peoria, Ill. Coupling for double and swingle trees. No. 945,945; Jan. 11; Sp. p. 2094; Gaz. vol. 150; p. 349.
Hazell, Alice, Turon, Kans. Milk-carrying tank. No. 968,152; Aug. 23; Sp. p. 4931; Gaz. vol. 157; p. 854.
Hazelrigg, George A., Winchester, Ill. Cider-press. No. 952,736; Mar. 22; Sp. p. 4644; Gaz. vol. 152; p. 841.
Hazelrigg, Ross, Oakland, assignor of one-half to P. M. Bowen, Jr., Alameda, Cal. Combined door knob and bell. No. 970,222; Sept. 13; Sp. p. 2324; Gaz. vol. 158; p. 391.
Hazelton, Joseph E., Peshtigo, Wis. Spark-arrester and smoke-consumer. No. 952,737; Mar. 22; Sp. p. 4645; Gaz. vol. 152; p. 842.
Hazen, Levi, P., Cincinnati, Ohio. Metal-bending tool. No. 960,910; June 7; Sp. p. 1343; Gaz. vol. 155; p. 226.
Heacock, Stewart L., Springfield, Nebr. Union suit. No. 973,274; Oct. 18; Sp. p. 3893; Gaz. vol. 159; p. 666.
Head, Frank S. (See Goodall and Head.)
Head, Robert, New York, N. Y. Phonograph-reproducer. No. 951,781; Mar. 8; Sp. p. 2677; Gaz. vol. 152; p. 462.
Headland, Henry W., Leyton, and F. Plutte, London, England. Electric-arc lamp. No. 960,911; June 7; Sp. p. 1345; Gaz. vol. 155; p. 226.
Headland, Walter F., St. Johns, Oreg. Potato-digger. No. 969,690; Sept. 6; Sp. p. 1138; Gaz. vol. 158; p. 184.
Headrick, Daniel A. (See Adcox and Headrick.)
Heady, Frank J., Sherburne, N. Y. Stop-motion for knitting-machines. No. 950,695; Mar. 1; Sp. p. 498; Gaz. vol. 152; p. 80.
Heagany, Dennis J., Chicago, Ill. Hat-display stand. No. 954,391; Apr. 5; Sp. p. 1468; Gaz. vol. 153; p. 244.
Heagney, Elmer D., assignor of one-fourth to B. M. Bainbridge, French Camp, Cal. Lock-washer. No. 959,857; May 31; Sp. p. 7409; Gaz. vol. 154; p. 1255.
Heald, Harvey L., Granville Center, Pa. Garment-hanger. No. 946,900; Jan. 18; Sp. p. 4262; Gaz. vol. 150; p. 700.
Healey, Aquilla E., assignor of one-half to R. Boardman, Fall River, Mass. Braking device for looms. No. 950,917; Mar. 1; Sp. p. 953; Gaz. vol. 152; p. 152.
Healey, Fred B., and C. S. Homsher, Denver, Colo. Speedometer. No. 957,773; May 10; Sp. p. 2699; Gaz. vol. 154; p. 464.
Healey, Fred S. (See Van Winkle and Healey.)
Healy, Henry, Buffalo, N. Y. Aquatic merry-go-round. No. 953,266; Mar. 29; Sp. p. 5787; Gaz. vol. 152; p. 1047.
Healy, Raymond, Brooklyn, N. Y. Demountable wheel-rim. No. 975,767; Nov. 15; Sp. p. 3943; Gaz. vol. 160; p. 631.
Heany Fire-Proof Wire Company. (See Heany, John A., assignor.)
Heany, John A., York, Pa. Combined generating and starting apparatus for gas-engines. No. 979,003; Dec. 20; Sp. p. 3424; Gaz. vol. 161; p. 601.
Heany, John A., York, Pa., assignor to Heany Fire-Proof Wire Company, New York, N. Y. Means for applying coverings to wire. No. 948,324; Feb. 8; Sp. p. 1134; Gaz. vol. 151; p. 208.
Heany, John A., York, Pa., assignor to Heany Fire-Proof Wire Company, New York, N. Y. Winding-reel. No. 960,913; June 7; Sp. p. 1349; Gaz. vol. 155; p. 227.
Heany, John A., York, Pa., assignor to The Heany Lamp Company, New York, N. Y. Piston-valve. No. 960,912; June 7; Sp. p. 1348; Gaz. vol. 155; p. 226.
Heany Lamp Company, The. (See Heany, John A., assignor.)
Heard, Eugene N., Oakland, Cal. Advertising-sign. No. 975,035; Nov. 8; Sp. p. 2178; Gaz. vol. 160; p. 354.
Heard, Thomas T. (See Waggoner and Heard.)
Heard, William H., London, Ontario, Canada. Pump. No. 948,302; Feb. 1; Sp. p. 1083; Gaz. vol. 151; p. 176.
Hearing, Edward, *et al.* (See Warner, Lewis E., assignor.)
Hearn, Clint C. (See Whistler and Hearn.)
Hearn, Laura O., *et al.* (See Whistler and Hearn, assignors.)
Heasel, Frederick J., Cincinnati, Ohio. Spark-plug. No. 958,247; May 17; Sp. p. 3910; Gaz. vol. 154; p. 658.
Heath, Amasa C., assignor to F. M. Shaw & Son, Brockton, Mass. Machine for making heel-rands. No. 966,687; Aug. 9; Sp. p. 1815; Gaz. vol. 157; p. 310.
Heath, Edward H., Herington, Kans. Game apparatus. No. 954,627; Apr. 12; Sp. p. 1996; Gaz. vol. 153; p. 352.

Alphabetical list of patentees—Continued.

Heath, Edward H., Herington, Kans. Game apparatus. No. 954,628; Apr. 12; Sp. p. 1997; Gaz. vol. 153; p. 352.
Heath, Frank M., Portland, Oreg. Draft-regulator. No. 979,069; Dec. 20; Sp. p. 3558; Gaz. vol. 161; p. 622.
Heath, George M. (See Hagmann, John G., assignor.)
Heath, O. E. (See Kenney, Leonard F., assignor)
Heath, Theodore D., Peabody, Kans. Cultivator. No. 945,163; Jan. 4; Sp. p. 323; Gaz. vol. 150; p. 54.
Heatly, Melvin L., Silver Springs, Fla. Bait. No. 978,290; Dec. 13; Sp. p. 1896; Gaz. vol. 161; p. 332.
Heaton, Arthur, Whitehall, Ill. Vending apparatus. No. 972,532; Oct. 11; Sp. p. 2216; Gaz. vol. 159; p. 383.
Heaton, Elias M., assignor of one-half to J. E. Wilson, Clarksburg, W. Va. Hospital-bed. No. 960,322; June 7; Sp. p. 160; Gaz. vol. 155; p. 30.
Heaton, Olive R., assignor to Ross-Heaton Manufacturing Co., Inc., Richmond, Va. Fastener. No. 966,544; Aug. 9; Sp. p. 1531; Gaz. vol. 157; p. 262.
Heaton-Peninsular Button Fastener Company. (See Parker, George E., assignor.)
Hebbeler, Carl, assignor to Berkefeld Filter Gesellschaft G. M. B. H., Celle, Germany. Filter. No. 949,357; Feb. 15; Sp. p. 3317; Gaz. vol. 151; p. 581.
Hebden, Frank S., Peoria, Ill. Pumping apparatus. No. 948,278; Feb. 1; Sp. p. 1015; Gaz. vol. 151; p. 167.
Hebden, James, Linwood, W. Va. Cutting mechanism for harvesters, mowing-machines, &c. No. 964,252; July 12; Sp. p. 2661; Gaz. vol. 156; p. 438.
Hebden, John C. (See Daniell and Hebden.)
Hebden, John C., Providence, R. I., and F. H. Daniell, deceased, Franklin, N. H.; M. B. Daniell, executrix. Jack-spool. No. 974,139; Nov. 1; Sp. p. 63; Gaz. vol. 160; p. 14.
Hebebrand, Peter W., Cleveland, Ohio. Receiving-cabinet. No. 963,148; July 5; Sp. p. 316; Gaz. vol. 156; p. 44.
Hebendahl, John P., Elizabeth, N. J. Supporting-bracket for electric lights. No. 952,521; Mar. 22; Sp. p. 4165; Gaz. vol. 152; p. 766.
Heberlein & Co. (See Heberlein, Eduard, assignor.)
Heberlein, Eduard, assignor to Heberlein & Co., Wattwil, Switzerland. Apparatus for mercerizing textile fabrics. No. 978,883; Dec. 20; Sp. p. 3143; Gaz. vol. 161; p. 558.
Heberling, John, Rochester, N. Y. Dumping-wagon. No. 979,488; Dec. 27; Sp. p. 4465; Gaz. vol. 161; p. 789.
Hebert, Oliver, Oswego, Ill. Heater for stock-watering tanks. No. 974,060; Oct. 25; Sp. p. 5540; Gaz. vol. 159; p. 961.
Hebert, Paul E., Glenflora, Tex. Boll-weevil exterminator. No. 954,629; Apr. 12; Sp. p. 1999; Gaz. vol. 153; p. 353.
Hebig, Harry C., New York, N. Y., assignor to J. Hamilton, East Orange, N. J. Photographic apparatus. No. 972,373; Oct. 11; Sp. p. 1856; Gaz. vol. 159; p. 326.
Hebrank, William F., Highland, Ill. Apparatus for applying solder to cans. No. 951,502; Mar. 8; Sp. p. 2121; Gaz. vol. 152; p. 367.
Hebrank, William F., Highland, Ill. Can-filling machine. No. 961,408; June 14; Sp. p. 2388; Gaz. vol. 155; p. 423.
Hecht, Frederick J., McGill, Nev. Mattress. No. 954,284; Apr. 5; Sp. p. 1251; Gaz. vol. 153; p. 207.
Hecht, Henry, Jackson, Minn. Lever-harrow. No. 970,921; Sept. 20; Sp. p. 3808; Gaz. vol. 158; p. 650.
Hecht, Joseph L., assignor, by mesne assignments, to G. W. French, N. French, and J. L. Hecht, Chicago, Ill. Supplemental rim for wheels. No. 948,138; Feb. 1; Sp. p. 743; Gaz. vol. 151; p. 121.
Heck, Adam F. (See Heck, William R., assignor.)
Heck, Jacob, Gnadenhutten, Ohio. Repair member. No. 954,098; Apr. 5; Sp. p. 849; Gaz. vol. 153; p. 146.
Heck, William R., assignor of one-half to A. F. Heck, Palmer, Nebr. Tire-inflater. No. 970,329; Sept. 13; Sp. p. 2530; Gaz. vol. 158; p. 427.
Heckel, Fred J. (See Kennedy and Heckel.)
Heckel, Jakob, assignor to Firm of C. Zeiss, Jena, Germany. Prism-binocular. No. 959,739; May 31; Sp. p. 7155; Gaz. vol. 154; p. 1214.
Heckert, Gustav A., Munich, Germany. Gas-generator. No. 954,099; Apr. 5; Sp. p. 850; Gaz. vol. 153; p. 146.
Heckert, Henry F., Nashville, Ill. Holder, adding-board, and indicator for tax-rate sheets. No. 967,912; Aug. 23; Sp. p. 4393; Gaz. vol. 157; p. 774.
Heckman, George E., Brice, Tex. Air-gun. No. 962,217; June 21; Sp. p. 4144; Gaz. vol. 155; p. 719.
Heckman, George E., Gipaw, Tex. Safety-lock for guns. No. 964,253; July 12; Sp. p. 2663; Gaz. vol. 156; p. 439.
Heckman, Jesse M., Alpha, Saskatchewan, Canada. Transport. No. 961,856; June 21; Sp. p. 3370; Gaz. vol. 155; p. 597.
Hecla Iron Works. (See Smith and Stilling, assignors.)
Hedberg, Jakob A., Gottenborg, Sweden. Blind-stop. No. 975,423; Nov. 15; Sp. p. 3007; Gaz. vol. 160; p. 513.
Hedberg, Peter L., assignor to Chicago Metal Weather Strip Company, Chicago, Ill. Metal weather-strip. No. 963,023; June 28; Sp. p. 5825; Gaz. vol. 155; p. 1020.
Hedden, Fred F., Chicago, Ill. Collapsible shell or lift-van. No. 962,429; June 28; Sp. p. 4619; Gaz. vol. 155; p. 816.
Hedderson, Bernard P., New Haven, Conn. Breast saw and brace. No. 945,720; Jan. 4; Sp. p. 1538; Gaz. vol. 150; p. 238.
Hedfeldt, Axel T., Chicago, Ill. Cleaning and separating grains. No. 971,609; Oct. 4; Sp. p. 219; Gaz. vol. 159; p. 39.
Hedfeldt, Axel T., Chicago, Ill., assignor to Hedfeldt Company. Cleaning and separating machine. No. 971,608; Oct. 4; Sp. p. 217; Gaz. vol. 159; p. 38.
Hedfeldt Company. (See Hedfeldt, Axel T., assignor.)
Hedge, Charles E., Beaverton, Oreg. Bag and twine holder. No. 957,507; May 10; Sp. p. 2159; Gaz. vol. 154; p. 373.
Hedgepeth, Charles E., Nashville, N. C. Car-step. No. 945,531; Jan. 4; Sp. p. 1132; Gaz. vol. 150; p. 175.
Hedges, Ross E., Scio, Ohio. Lawn-mower. No. 977,092; Nov. 29; Sp. p. 6662; Gaz. vol. 160; p. 1135.
Hedin, John E., Lidköping, Sweden. Apparatus for controlling temperature fluctuations. No. 949,825; Feb. 22; Sp. p. 4283; Gaz. vol. 151; p. 772.
Hedlund, John, Kansas City, Mo. Bottle-stopper. No. 963,222; July 5; Sp. p. 498; Gaz. vol. 156; p. 69.
Hedrich, Gustav, Barmen, Germany. Chenille. No. 954,570; Apr. 12; Sp. p. 1861; Gaz. vol. 153; p. 333.
Hedrick, George W., Dayton, Va. Carriage-top. No. 955,512; Apr. 19; Sp. p. 3919; Gaz. vol. 153; p. 687.
Hedrick, Henry P., Huntington, W. Va. Cleat. No. 963,552; July 5; Sp. p. 1179; Gaz. vol. 156; p. 181.
Hedstrom, John P., assignor to Hanchett Swage Works, Big Rapids, Mich. Retoothing-machine. No. 953,692; Apr. 5; Sp. p. 25; Gaz. vol. 153; p. 7.
Hedstrom, Rudolph, Atlantic, Mass. Reversible tool-holder. No. 945,532; Jan. 4; Sp. p. 1133; Gaz. vol. 150; p. 175.
Hedwall, Henning, Quincy, Mass. Collapsible door. No. 958,961; May 24; Sp. p. 5539; Gaz. vol. 154; p. 930.
Hedwig, Charles, New York, N. Y. Window. No. 971,610; Oct. 4; Sp. p. 221; Gaz. vol. 159; p. 39.
Hedworth Barium Company Limited. (See Rollin, Charles, assignor.)
Heebner, William D. (See Metz, Nathaniel, assignor.)
Heedwell, Gothard, and W. F. McNew, Boone, Iowa. Portable rotatable hay-stacker. No. 972,695; Oct. 11; Sp. p. 2574; Gaz. vol. 159; p. 438.
Heeley, John S., Gallatin, Pa. Curtain-stretcher. No. 960,012; May 31; Sp. p. 7784; Gaz. vol. 154; p. 1310.
Heely, Patrick, Brooklyn, N. Y. Tool for spreading tubes of water-tube boilers. No. 979,162; Dec. 20; Sp. p. 3801; Gaz. vol. 161; p. 659.
Heeney, Henry J., Boston, Mass., assignor to Holtzer-Cabot Electric Company. Elevator signal system. No. 947,733; Jan. 25; Sp. p. 6038; Gaz. vol. 150; p. 1007.
Heeney, Joseph P., East St. Louis, assignor to M. H. Foundry and Manufacturing Company, Belleville, Ill. Drinking-faucet. No. 979,489; Dec. 27; Sp. p. 4468; Gaz. vol. 161; p. 789.
Heer, Otto F., *et al.* (See Fuller, Henry W., assignor.)
Heer, Peter R., assignor to Eugene Dietzgen Company Factory, Chicago, Ill. Clamp for surveying instruments. No. 964,776; July 19; Sp. p. 3902; Gaz. vol. 156; p. 649.
Heer, Wilhelm, Bochum, Germany. Plant for storing explosive liquids. No. 946,041; Jan. 11; Sp. p. 2288; Gaz. vol. 150; p. 380.
Heeren, William E., Pittsburg, Pa. Producing ornamental articles. No. 958,641; May 17; Sp. p. 4836; Gaz. vol. 154; p. 794.
Heergeist, Albert, assignor of one-half to J. Ameis, Nuremberg, Germany. Sliding button-fastener. No. 964,862; July 19; Sp. p. 4072; Gaz. vol. 156; p. 679.
Heery, Philip E., Newark, N. J. Collar. No. 945,164; Jan. 4; Sp. p. 325; Gaz. vol. 150; p. 54.
Heeter, Charles M., Butler, Pa. Tubing and casing spear. No. 956,346; Apr. 26; Sp. p. 5770; Gaz. vol. 153; p. 1003.
Heeter, Charles M., Butler, Pa. Well-pumping apparatus. No. 956,346; Apr. 26; Sp. p. 5770; Gaz. vol. 153; p. 1003.
Heeter, Charles M., Butler, Pa. Joint for well-tools, &c. No. 959,341; May 24; Sp. p. 6323; Gaz. vol. 154; p. 1057.
Heeter, Colonel C., Butler, Pa. Casing-spear. No. 976,651; Nov. 22; Sp. p. 5673; Gaz. vol. 160; p. 959.
Heeter, Thomas E. (See Sarles and Heeter.)
Heeter, Thomas E., St. Louis, Mo., assignor to Sieber & Trussell Manufacturing Co. Loose-leaf binder. No. 978,744; Dec. 13; Sp. p. 2879; Gaz. vol. 161; p. 487.
Heffernan, Eduard F., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Holddown attachment for lasting-machines. No. 947,818; Feb. 1; Sp. p. 67; Gaz. vol. 151; p. 14.
Heffernan, Thomas, and H. C. Braun, assignors to N. R. Capsule Syndicate, Limited, London, England. Stoppering device for bottles or the like. No. 948,325; Feb. 8; Sp. p. 1135; Gaz. vol. 151; p. 208.
Heffler, Philip, Pittsburg, Pa. Curtain-holder. No. 970,819; Sept. 20; Sp. p. 3618; Gaz. vol. 158; p. 618.
Heffner, Herman C., Martinsburg, W. Va. Letter-case label for postal cars. No. 953,907; Apr. 5; Sp. p. 442; Gaz. vol. 153; p. 81.
Heffner, Herman C., Martinsburg, W. Va. Passenger-car. No. 957,057; May 3; Sp. p. 1198; Gaz. vol. 154; p. 190.
Heffner, Herman C., and F. E. Wilson, Martinsburg, W. Va. Comb. No. 953,267; Mar. 29; Sp. p. 5788; Gaz. vol. 152; p. 1047.
Heffron, Harold J., *et al.* (See Locke, William S., assignor.)

Alphabetical list of patentees—Continued.

Heft, Nathan H., Bridgeport, Conn. Attachment for internal-combustion engines. No. 953,382; Mar. 29; Sp. p. 6042; Gaz. vol. 152; p. 1086.
Hefter, Michel, St. Petersburg, Russia, assignor to L. J. Lewery, New York, N. Y. Electrical heater and manner of manufacturing same in the form of textiles. No. 975,358; Nov. 8; Sp. p. 2873; Gaz. vol. 160; p. 464.
Hefter, Michel, St. Petersburg, Russia, assignor to L. J. Lewery, New York, N. Y. Knitted electric heating-body. No. 975,359; Nov. 8; Sp. p. 2875; Gaz. vol. 160; p. 464.
Hegarty, William J., Philadelphia, Pa. Collapsible clothes-tree. No. 963,893; July 12; Sp. p. 1935; Gaz. vol. 156; p. 318.
Hegbom, Marselius, assignor to F. Voss, Chicago, Ill. Automatic locking device for hatchway-doors. No. 963,223; July 5; Sp. p. 499; Gaz. vol. 156; p. 70.
Hege, Gustavus A., Halstead, Kans., assignor to Parsons Band Cutter and Self Feeder Company, Newton, Iowa. Band-cutter knife. No. 950,448; Feb. 22; Sp. p. 5616; Gaz. vol. 151; p. 985.
Heger, George, assignor of one-half to W. F. Barenz, Milwaukee, Wis. Oscillating motor. No. 949,372; Feb. 15; Sp. p. 3347; Gaz. vol. 151; p. 586.
Heggem, Alfred G., Coraopolis, assignor to Oil Well Supply Company, Pittsburg, Pa. Tool for restoring damaged threads. No. 952,042; Mar. 15; Sp. p. 3214; Gaz. vol. 152; p. 578.
Heggie, David, Lorain, Ohio, assignor to National Tube Company, Pittsburg, Pa. Apparatus for sawing pipes and similar annular bodies. No. 960,640; June 7; Sp. p. 822; Gaz. vol. 155; p. 135.
Heglar, Arthur L., Spokane, Wash. Speed-multiplying mechanism for motors. No. 947,908; Feb. 1; Sp. p. 272; Gaz. vol. 151; p. 45.
Hegwer, Herman J., Oakland, Cal., assignor to Hegwer Illuminated Target Finder Company. Target-finder. No. 966,332; Aug. 2; Sp. p. 1011; Gaz. vol. 157; p. 163.
Hegwer Illuminated Target Finder Company. (See Hegwer, Herman J., assignor.)
Hegwood, Frederic D., South Greensburg, Pa. Gas flat-iron. No. 963,553; July 5; Sp. p. 1180; Gaz. vol. 156; p. 181.
Heidenkamp, Joseph. (See De Bay, George C., assignor.)
Heider, Henry J., assignor to Heider Mfg. Co., Carroll, Iowa. Draft-equalizer. No. 952,900; Mar. 22; Sp. p. 4993; Gaz. vol. 152; p. 897.
Heider Mfg. Co. (See Heider, Henry J., assignor.)
Heil, Andrew A., St. Louis, Mo. Aeroplane. No. 969,865; Sept. 13; Sp. p. 1563; Gaz. vol. 158; p. 269.
Heilbron, Julius, St. Paul, Minn., assignor to Herz Manufacturing Company. Self-heating iron. No. 974,665; Nov. 1; Sp. p. 1331; Gaz. vol. 160; p. 207.
Heilemann, Henry, *et al.* (See Thompson, George C., assignor.)
Heilig, Daniel W. (See Cowan, Richard J. D., assignor.)
Heilig, Enoch H., Shelby, Iowa. Check-valve. No. 968,559; Aug. 30; Sp. p. 5801; Gaz. vol. 157; p. 1021.
Heilmann, Adolf, and B. Tauss, Leipzig, Germany. Surgical syringe. No. 977,952; Dec. 6; Sp. p. 1145; Gaz. vol. 161; p. 184.
Heim, Adam, Connersville, and C. Heim, Brownsville, Ind. Railway-switch. No. 949,120; Feb. 15; Sp. p. 2828; Gaz. vol. 151; p. 500.
Heim, Court. (See Heim, Adam and C.)
Heim, John B., Madison, Wis. Sprinkling-valve for hydrants. No. 970,707; Sept. 20; Sp. p. 3365; Gaz. vol. 158; p. 577.
Heimann, Hugo, assignor to The Heimann Miller Manufacturing Company, St. Louis, Mo. Show-case. No. 953,615; Mar. 29; Sp. p. 6533; Gaz. vol. 152; p. 1167.
Heimann Miller Manufacturing Company, The. (See Heimann, Hugo, assignor.)
Heimbach, Alton B., Duluth, Minn. Rubber heel. No. 961,126; June 14; Sp. p. 1790; Gaz. vol. 155; p. 324.
Heimbach, Alton B. and W. P., Duluth, Minn. Yielding hoof-pad. No. 949,358; Feb. 15; Sp. p. 3318; Gaz. vol. 151; p. 581.
Heimbach, August. (See Beaupre and Heimbach.)
Heimbach, William P. (See Heimbach, Alton B. and W. P.)
Heinberg, Adolph, assignor of one-half to R. M. Trout, Pierson, Iowa. Cement-mixer. No. 954,285; Apr. 5; Sp. p. 1252; Gaz. vol. 153; p. 208.
Heindselman, George H., Provo, Utah. Feed-valve action for fountain-pens. No. 950,596; Mar. 1; Sp. p. 276; Gaz. vol. 152; p. 45.
Heindselman, George H., Provo, Utah. Self-filling fountain-pen. No. 964,254; July 12; Sp. p. 2665; Gaz. vol. 156; p. 439.
Heine, Paul, Lancaster, Pa. Bung. No. 974,378; Nov. 1; Sp. p. 680; Gaz. vol. 160; p. 102.
Heine Safety Boiler Company. (See Wood and Meier, assignors.)
Heinemann, Arthur, London, England. Converting carbohydrates into hydrocarbons. No. 951,072; Mar. 1; Sp. p. 1232; Gaz. vol. 152; p. 202.
Heinemann, Arthur, London, England. Pills for the treatment of diabetes mellitus. No. 960,914; June 7; Sp. p. 1351; Gaz. vol. 155; p. 227.
Heinig, Sidney J., and R. H. Smith, London, England. Game apparatus. No. 966,091; Aug. 2; Sp. p. 528; Gaz. vol. 157; p. 85.
Heinkel, Christian F. (See Muth and Heinkel.)
Heinle, William F. (See Huey, John H., assignor.)
Heinn Company, The. (See Bowen, Philip A., assignor.)
Heinn Company, The. (See Morehouse, Cyrus E., assignor.)
Heinonen, John, Brush Prairie, Wash. Railway-tie. No. 972,857; Oct. 18; Sp. p. 2935; Gaz. vol. 159; p. 521.
Heinonen, John, Brush Prairie, Wash. Metal railway-tie. No. 977,798; Dec. 6; Sp. p. 828; Gaz. vol. 161; p. 129.
Heinrich, Joseph C., and W. Kellermann, Philadelphia, Pa. Ratchet-wrench. No. 951,316; Mar. 8; Sp. p. 1742; Gaz. vol. 152; p. 306.
Heinrichs, Joseph, New York, N. Y. Drink-shaker No. 950,288; Feb. 22; Sp. p. 5326; Gaz. vol. 151; p. 933.
Heinss, Christian F., Cincinnati, Ohio. Automatic safety-stop clutch. No. 953,693; Apr. 5; Sp. p. 27; Gaz. vol. 153; p. 8.
Heinss, Christian F., Cincinnati, Ohio. Punching-machine. No. 976,877; Nov. 29; Sp. p. 6149; Gaz. vol. 160; p. 1060.
Heintzelman, Taylor W., Sacramento, Cal. Freight-car door. No. 964,020; July 12; Sp. p. 2196; Gaz. vol. 156; p. 360.
Heinz, Jacob, assignor to T. Neal, Detroit, Mich. Abrading-machine. No. 957,674; May 10; Sp. p. 2499; Gaz. vol. 154; p. 432.
Heinze, John O., Jr., Lowell, Mass. Distributer. No. 951,815; Mar. 15; Sp. p. 2751; Gaz. vol. 152; p. 503.
Heinze, John O., Jr., Lowell, Mass. Electrical switch. No. 957,953; May 17; Sp. p. 3108; Gaz. vol. 154; p. 555.
Heinze, John O., Jr., Lowell, Mass. Induction-coil. No. 977,870; Dec. 6; Sp. p. 979; Gaz. vol. 161; p. 154.
Heinzer, Milton A., Pleasantville, N. J. Peppermint-bread. No. 952,114; Mar. 15; Sp. p. 3346; Gaz. vol. 152; p. 602.
Heinzinger, Anton, New York, N. Y. Clothes-line holder. No. 958,493; May 17; Sp. p. 4551; Gaz. vol. 154; p. 746.
Heinzinger, Christian, New York, N. Y. Medicinal preparation. No. 960,915; June 7; Sp. p. 1353; Gaz. vol. 155; p. 227.
Heisel, Leonard, Fremont, Iowa. Antifreezing tank. No. 957,557; May 10; Sp. p. 2263; Gaz. vol. 154; p. 392.
Heiser, Christian R., London, England. Apparatus for plaiting paper. No. 957,159; May 3; Sp. p. 1400; Gaz. vol. 154; p. 224.
Heiser, Edgar W., Chicago, Ill. Folding bench. No. 960,916; June 7; Sp. p. 1353; Gaz. vol. 155; p. 227.
Heisler, Charles L., St. Marys, Ohio. Pump. No. 974,061; Oct. 25; Sp. p. 5542; Gaz. vol. 159; p. 961.
Heiss, Walter F. (See Marsh and Heiss.)
Heissenberger, John, assignor to F. A. and C. H. Stirrup, New York, N. Y. Safety-razor. No. 979,296; Dec. 20; Sp. p. 4085; Gaz. vol. 161; p. 703.
Heistad, Amund, Flushing, N. Y. Folding level. No. 945,275; Jan. 4; Sp. p. 560; Gaz. vol. 150; p. 92.
Heisterman, William, London, England. Advertising device. No. 978,157; Dec. 13; Sp. p. 1603; Gaz. vol. 161; p. 285.
Heitz-Boyer, Maurice G., Paris, France. Aseptic needle-thread holder for surgical use. No. 962,218; June 21; Sp. p. 4145; Gaz. vol. 155; p. 720.
Heitzler, Frank, Denver, Colo. Mountain and mining transit. No. 946,602; Jan. 18; Sp. p. 3557; Gaz. vol. 150; p. 599.
Heizer, James W., assignor to The Lactomode Company, Wheeling, W. Va. Pasteurizing apparatus. No. 964,777; July 19; Sp. p. 3903; Gaz. vol. 156; p. 649.
Helbeno, Lena. (See Scott, Grace M., assignor.)
Helbig, Albin B., assignor to Fellner & Ziegler, Frankfort-on-the-Main, Germany. Method of and means for supporting rotary drums. No. 974,964; Nov. 8; Sp. p. 2023; Gaz. vol. 160; p. 331.
Helbig, Robert, assignor to Nierth & Helbig, Dresden, Germany. Shoe. No. 970,444; Sept. 13; Sp. p. 2760; Gaz. vol. 158; p. 464.
Helbing, Charles, Jr., San Francisco, Cal. Split cap for woodworking machines. No. 953,203; Mar. 29; Sp. p. 5648; Gaz. vol. 152; p. 1026.
Helbling, Gottfried, Küsnacht, near Zurich, Switzerland. Discharge and overflow fitting. No. 977,304; Nov. 29; Sp. p. 7103; Gaz. vol. 160; p. 1208.
Helbronner, André. (See Lévy and Helbronner.)
Held, Benjamin E., Waupun, Wis. Cultivator. No. 952,115; Mar. 15; Sp. p. 3346; Gaz. vol. 152; p. 602.
Heldmann, Peter, assignor to Moenus Machine Works Ltd., Frankfort-on-the-Main, Germany. Machine for cutting, skiving, and splitting leather or the like. No. 955,266; Apr. 19; Sp. p. 3390; Gaz. vol. 153; p. 604.
Heldmann, Peter, assignor to Maschinenfabrik Moenus A. G., Frankfort-on-the-Main, Germany. Machine for sorting or grading pieces of leather or the like. No. 968,053; Aug. 23; Sp. p. 4700; Gaz. vol. 157; p. 821.
Heldt, Hermann, Gelsenkirchen, Germany. Rose for shower-baths. No. 977,389; Nov. 29; Sp. p. 7290; Gaz. vol. 160; p. 1238.
Helfenstein, Alois, Vienna, Austria-Hungary. Electric furnace. No. 949,895; Feb. 22; Sp. p. 4460; Gaz. vol. 151; p. 797.
Helfrecht, John W. (See Traub and Helfrecht.)

Alphabetical list of patentees—Continued.

Helfrich, Elmer E., Oklahoma, Okla. Operating-table. No. 948,447; Feb. 8; Sp. p. 1401; Gaz. vol. 151; p. 250.
Helgerson, Helge, Soldiers Grove, Wis. Folding umbrella. No. 963,003; June 28; Sp. p. 5789; Gaz. vol. 155; p. 1013.
Helle, Hans, Los Angeles, Cal. Door-securer. No. 946,437; Jan. 11; Sp. p. 3225; Gaz. vol. 150; p. 518.
Heller, Charles S., Barberton, assignor to The Moore Architectural and Engineering Company, Akron, Ohio. Apparatus for use in reclaiming vulcanized-rubber waste. No. 978,583; Dec. 13; Sp. p. 2538; Gaz. vol. 161; p. 433.
Heller, Charles S., Barberton, assignor to The Moore Architectural and Engineering Company, Akron, Ohio. Reclaiming vulcanized-rubber waste. No. 978,584; Dec. 13; Sp. p. 2543; Gaz. vol. 161; p. 433.
Heller, Edgar W., Newark, N. J. Filter-press. No. 962,346; June 21; Sp. p. 4426; Gaz. vol. 155; p. 763.
Heller, Emanuel C., and A. J. Emrick, assignors of one-third to W. L. Hutchinson, Germantown, Ohio. Tube-cutter. No. 956,805; May 3; Sp. p. 654; Gaz. vol. 154; p. 104.
Heller, Emanuel S., San Francisco, Cal. Bond-plate for building construction. No. 956,347; Apr. 26; Sp. p. 5771; Gaz. vol. 153; p. 1004.
Heller, George, Milwaukee, Wis. Tire-bolt cutter and nut turner and splitter. No. 971,195; Sept. 27; Sp. p. 4392; Gaz. vol. 158; p. 769.
Heller, Jacob K. (See Heller, Micajah B. and J. K.)
Heller, John L., Ravenna, Ohio, assignor to Manhattan Electrical Supply Company. Apparatus for filling dry batteries. No. 958,394; May 17; Sp. p. 4359; Gaz. vol. 154; p. 711.
Heller, Julius, assignor to Schrauben-und Schmiedewarenfabriks Aktiengesellschaft Brevillier & Co. und A. Urban & Söhne, Vienna, Austria-Hungary. Rolling in recesses in blanks. No. 967,768; Aug. 16; Sp. p. 4097; Gaz. vol. 157; p. 702.
Heller, Louis E., New York, N. Y. Binder. No. 962,568; June 28; Sp. p. 4938; Gaz. vol. 155; p. 865.
Heller, Micajah B. and J. K., Townville, S. C. Andirons and fender. No. 969,953; Sept. 13; Sp. p. 1744; Gaz. vol. 158; p. 299.
Heller, Phares S., and A. S. Kline, Allentown, Pa. Beam-compass. No. 953,464; Mar. 29; Sp. p. 6210; Gaz. vol. 152; p. 1114.
Heller, Sigmund, Teplitz, Austria-Hungary. Producing conductive layers on ceramic wares. No. 952,901; Mar. 22; Sp. p. 4996; Gaz. vol. 152; p. 898.
Heller, William C., assignor to The W. C. Heller & Co. Inc., Montpelier, Ohio. Box. No. 972,449; Oct. 11; Sp. p. 2015; Gaz. vol. 159; p. 353.
Hellström, Carl D., Belgviken, Eskilstuna, Sweden. Centrifugal liquid-separator. No. 954,958; Apr. 12; Sp. p. 2764; Gaz. vol. 153; p. 468.
Hellstrom, Charles, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 970,708; Sept. 20; Sp. p. 3366; Gaz. vol. 158; p. 577.
Hellstrom, Victor A., Salt Lake City, Utah. Bread-making machine. No. 969,058; Aug. 30; Sp. p. 6848; Gaz. vol. 157; p. 1192.
Helm, Bruce M., Hagerstown, Md. Cutting-stick for paper-cutting machines. No. 958,395; May 17; Sp. p. 4362; Gaz. vol. 154; p. 712.
Helm, Bruce M., Hagerstown, Md. Cutting-stick for paper-cutting machines. No. 969,371; Sept. 6; Sp. p. 483; Gaz. vol. 158; p. 76.
Helm, Edith G., New York, N. Y. Brush for hair-tinting. No. 961,127; June 14; Sp. p. 1791; Gaz. vol. 155; p. 324.
Helm, Sanford D., *et al.* (See Michael, Anceal C., assignor.)
Helmer, Paul J., Cucamonga, Cal. Fountain-pen. No. 954,514; Apr. 12; Sp. p. 1750; Gaz. vol. 153; p. 314.
Helmer, William, Boston, Mass. Liquid-dispensing apparatus. No. 958,871; May 24; Sp. p. 5364; Gaz. vol. 154; p. 900.
Helmholtz, Henry. (See Rosenfelt and Helmholtz.)
Helmick, Frederick, Fairmont, W. Va. Journal-box. No. 950,391; Feb. 22; Sp. p. 5511; Gaz. vol. 151; p. 965.
Helming, Herman A. (See Schwartz, Maurice P., assignor.)
Helmke, George G., Pratt, Kans. Supporting-truck for agricutural machines. No. 949,071; Feb. 15; Sp. p. 2723; Gaz. vol. 151; p. 484.
Helms, Arthur J., Portland, Oreg. Door-lock. No. 979,948; Dec. 27; Sp. p. 5472; Gaz. vol. 161; p. 946.
Helmus, Edward, Brooklyn, N. Y. Antivibration device for vehicles. No. 978,291; Dec. 13; Sp. p. 1897; Gaz. vol. 161; p. 332.
Helmuth, August, *et al.* (See Schoepe, Joseph, assignor.)
Helps, George, Ansley, Atherstone, England. Gas-burner. No. 962,834; June 28; Sp. p. 5475; Gaz. vol. 155; p. 957.
Helquist, John A., Blue Island, Ill. Burglar-alarm. No. 945,946; Jan. 11; Sp. p. 2096; Gaz. vol. 150; p. 349.
Helsing, Olof, Sandhem, Sweden. Rail-joint. No. 973,193; Oct. 18; Sp. p. 3739; Gaz. vol. 159; p. 639.
Helsing, Peter G., Emida, Idaho. Safety-stirrup. No. 971,376; Sept. 27; Sp. p. 4735; Gaz. vol. 158; p. 827.
Helvetia Milk Condensing Company, The. (See Peppard, Orin, assignor.)
Hemann, Bennard, Belleville, Ill. Coating metal objects. No. 955,592; Apr. 19; Sp. p. 4089; Gaz. vol. 153; p. 714.
Hemenway, Justin S., River Falls, Wis. Air-pump. No. 951,529; Mar. 8; Sp. p. 2172; Gaz. vol. 152; p. 377.
Hemenway, Thomas S., Buffalo, assignor to Ericsson Manufacturing Company, Tonawanda, N. Y. Magneto-electric generator. No. 980,153; Dec. 27; Sp. p. 5938; Gaz. vol. 161; p. 1014.
Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Hemstitch sewing-machine. No. 955,963; Apr. 26; Sp. p. 4927; Gaz. vol. 153; p. 871.
Hemme, William, Altoona, Kans. Well-packer. No. 976,737; Nov. 22; Sp. p. 5820; Gaz. vol. 160; p. 986.
Hemmens, Henry J. (See Pratt, Allison A., assignor.)
Hemmer, Frederick C., assignor to Sterling Vacuum Cleaner Company, Bradford, Pa. Dust-collector. No. 948,993; Feb. 15; Sp. p. 2554; Gaz. vol. 151; p. 460.
Hemming, Harry, Victoria, Ontario, Canada. Pamphlet-filing device. No. 966,333; Aug. 2; Sp. p. 1012; Gaz. vol. 157; p. 163.
Hemming, Henry J. R., Washington, D. C. Producing pure or mixed aeriform environments. No. 970,623; Sept. 20; Sp. p. 3177; Gaz. vol. 158; p. 548.
Hempen, John H., Alexandria, La., assignor of one-half to W. Goodman, Memphis, Tenn. Cake-trimmer. No. 949,149; Feb. 15; Sp. p. 2884; Gaz. vol. 151; p. 510.
Hemphill, Henry B., Eldorado, assignor of one-fourth to G. A. and C. E. Sapp, Wabash county, Ill. Draft-regulator. No. 950,918; Mar. 1; Sp. p. 955; Gaz. vol. 152; p. 153.
Hemphill, Henry B., assignor of one-half to A. Moore and W. Chamberlain, Eldorado, Ill. Insole for shoes. No. 969,691; Sept. 6; Sp. p. 1140; Gaz. vol. 158; p. 184.
Hemphill, Henry B., assignor of one-half to A. Moore and W. Chamberlain, one-fourth to R. C. Crozier, and one-fourth to C. W. Johnson, Eldorado, Ill. Washboiler. No. 970,922; Sept. 20; Sp. p. 3809; Gaz. vol. 158; p. 650.
Hemptinne, Alexander de, Ghent, Belgium. Manufacture of lubricating-oils. No. 970,473; Sept. 20; Sp. p. 2837; Gaz. vol. 158; p. 496.
Hempy, Frederick W. (See Wing and Hempy.)
Hemsteger, Edward A., assignor to Weisell Nut Lock Company, Chicago, Ill. Nut-lock. No. 962,347; June 21; Sp. p. 4428; Gaz. vol. 155; p. 763.
Hemstreet, George P., Hastings-upon-Hudson, N. Y., assignor to The International Pavement Company, Hartford, Conn. Rattler. No. 970,373; Sept. 13; Sp. p. 2620; Gaz. vol. 158; p. 442.
Hencke, John W., Cleveland, Ohio. Nursery-chair. No. 952,671; Mar. 22; Sp. p. 4511; Gaz. vol. 152; p. 820.
Henckler, Charles H., Chicago, Ill. Feed-bag. No. 953,032; Mar. 29; Sp. p. 5266; Gaz. vol. 152; p. 970.
Hendershot, Henry G. (See Holden and Hendershot.)
Hendershot, John L., assignor of one-half to R. R. Vanhorn, Jerusalem, Ohio. Pump-jack. No. 951,816; Mar. 15; Sp. p. 2753; Gaz. vol. 152; p. 503.
Henderson, Alexander, Edinburgh, Scotland. Machine for making block paper bags. No. 952,075; Mar. 15; Sp. p. 3266; Gaz. vol. 152; p. 589.
Henderson, Carl. (See McCain and Henderson.)
Henderson, Carl, Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-delivery apparatus. No. 973,428; Oct. 18; Sp. p. 4222; Gaz. vol. 159; p. 719.
Henderson, Carl, Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism for printing-presses. No. 974,062; Oct. 25; Sp. p. 5544; Gaz. vol. 159; p. 961.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 945,093; Jan. 4; Sp. p. 182; Gaz. vol. 150; p. 31.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-breaker. No. 957,334; May 10; Sp. p. 1815; Gaz. vol. 154; p. 316.
Henderson, Clark T., Pittsburg, Pa., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Motor-starter. No. 969,866; Sept. 13; Sp. p. 1565; Gaz. vol. 158; p. 269.
Henderson, Clinton F., Seattle, Wash. Ventilator. No. 960,917; June 7; Sp. p. 1355; Gaz. vol. 155; p. 227.
Henderson, Elias H., Chicago, Ill. Scaffold-supporting means. No. 959,008; May 24; Sp. p. 5631; Gaz. vol. 154; p. 946.
Henderson, George A. (See Muther and Henderson.)
Henderson, George A., Marblehead, Mass. Machine for sharpening the rotary knives of skiving and similar machines. No. 959,136; May 24; Sp. p. 5903; Gaz. vol. 154; p. 988.
Henderson, John C., Oakland, assignor to Apollo Artificial Stone Company, San Francisco, Cal. Facing artificial stone. No. 969,692; Sept. 6; Sp. p. 1141; Gaz. vol. 158; p. 184.
Henderson, John J., Cordaville, Mass. Carding-machine. No. 949,271; Feb. 15; Sp. p. 3127; Gaz. vol. 151; p. 551.
Henderson, John S., Los Angeles, Cal. Excavator. No. 954,863; Apr. 12; Sp. p. 2564; Gaz. vol. 153; p. 437.
Henderson, John T. (See Anderson, Joseph C., assignor.)
Henderson, Richard, Perth Amboy, N. J., assignor to The Barker Asphalt Paving Company, Philadelphia, Pa. Drying mechanism for long sheets. No. 966,398; Aug. 2; Sp. p. 1144; Gaz. vol. 157; p. 185.
Henderson, Thomas, Mart, Tex. Refrigerator. No. 955,872; Apr. 26; Sp. p. 4738; Gaz. vol. 153; p. 840.

Henderson, William, New York, N. Y. Window-came. No. 978,745; Dec. 13; Sp. p. 2881; Gaz. vol. 161; p. 488.
Henderson, William H., assignor of one-half to A. Carpenter, Los Angeles, Cal. Power-operated handsaw. No. 976,801; Nov. 22; Sp. p. 5974; Gaz. vol. 160; p. 1009.
Henderson, William M. (See Reinoehl and Henderson.)
Henderson, William W., Washington, D. C. Transmission-gearing. No. 954,286; Apr. 5; Sp. p. 1254; Gaz. vol. 153; p. 208.
Henderson, William W., Washington, D. C. Transmission-gearing. No. 956,089; Apr. 26; Sp. p. 5206; Gaz. vol. 153; p. 916.
Hendren, Walter S., assignor of one-fourth to C. A. Knight, Nicholasville, Ky. Toy. No. 959,009; May 24; Sp. p. 5632; Gaz. vol. 154; p. 946.
Hendricks, Augustin, Grand Rapids, Mich. Stand for duplicating-machines. No. 948,728; Feb. 8; Sp. p. 2012; Gaz. vol. 151; p. 344.
Hendricks, Augustin, Grand Rapids, Mich. Table having hinged leaf. No. 948,729; Feb. 8; Sp. p. 2013; Gaz. vol. 151; p. 345.
Hendricks, Milton, and J. S. Burnap, Vanlue, Ohio. Flagstaff. No. 957,606; May 10; Sp. p. 2344; Gaz. vol. 154; p. 408.
Hendricks, Oscar E., Ottumwa, Iowa. Door check and holder. No. 951,817; Mar. 15; Sp. p. 2754; Gaz. vol. 152; p. 503.
Hendricks, Virgil H. (See Crandall, William F., assignor.)
Hendricks, Walter L. (See Voss, Detlef C., assignor.) (Reissue.)
Hendrickson, Fred K., assignor to Prentice Brothers Company, Worcester, Mass. Turret-lathe. No. 945,947; Jan. 11; Sp. p. 2097; Gaz. vol. 150; p. 350.
Hendrickson, John F. (See Harriman and Hendrickson.)
Hendrickson, John H., Cleveland, Ohio. Water-motor. No. 954,433; Apr. 12; Sp. p. 1550; Gaz. vol. 153; p. 285.
Hendrix, Charles E., Ashland, Mo. Box-lid fastener. No. 964,912; July 19; Sp. p. 4176; Gaz. vol. 156; p. 696.
Hendrix, Harrison H., Powell Station, Tenn. Projectile. No. 966,744; Aug. 9; Sp. p. 1968; Gaz. vol. 157; p. 330.
Hendrix, James D., Wall, Tex. Baling-press. No. 978,158; Dec. 13; Sp. p. 1604; Gaz. vol. 161; p. 285.
Hendry, Alexander S., McPherson, Kans. Score-book and cover therefor. No. 966,545; Aug. 9; Sp. p. 1533; Gaz. vol. 157; p. 262.
Hendryx, Wilbur A., Denver, Colo. Electrolytic apparatus for recovering metals from solutions. No. 949,016; Feb. 15; Sp. p. 2613; Gaz. vol. 151; p. 467.
Hendryx, Wilbur A., Denver, Colo. Dewatering device. No. 960,546; June 7; Sp. p. 632; Gaz. vol. 155; p. 103.
Hendryx, Wilbur A., Denver, Colo. Separating solids from liquids. No. 960,547; June 7; Sp. p. 635; Gaz. vol. 155; p. 103.
Hendryx, William T., assignor of one-half to J. P. Porter, Portland, Oreg. Air-blast distributer. No. 952,522; Mar. 22; Sp. p. 4168; Gaz. vol. 152; p. 767.
Hengel, Frederick, and J. Addis, New York, N. Y. Automobile tool-box. No. 969,620; Sept. 6; Sp. p. 1004; Gaz. vol. 158; p. 160.
Hengerer, Augustus W., and R. J. Kiendl, Buffalo, N. Y. Safety device for elevators. No. 974,140; Nov. 1; Sp. p. 65; Gaz. vol. 160; p. 14.
Hengerer, Louis. (See Ryan, Walter S., assignor.)
Heninger, William H., Xenia, Ill. Hay-stacker. No. 971,611; Oct. 4; Sp. p. 222; Gaz. vol. 159; p. 39.
Henke, Otto R., Grant, Wyo. Loading and unloading device. No. 958,396; May 17; Sp. p. 4363; Gaz. vol. 154; p. 712.
Henkel, Adolph W., assignor to The Frost Manufacturing Company, Kenosha, Wis. Automatic flushing-valve. No. 945,038; Jan. 4; Sp. p. 62; Gaz. vol. 150; p. 12.
Henkel, George R., assignor of one-half to C. E. Matson, Babb, Mont. Firearm-sight. No. 946,357; Jan. 11; Sp. p. 2953; Gaz. vol. 150; p. 490.
Henkels, Alb. & E. (See Buscher, Hermann, assignor.)
Henkels, Albert & E. (See Malhère, Leon L. F., assignor.)
Henly, Thomas A., Enola, assignor of one-half to J. M. Reynolds, Vilonia, Ark. Stalk-cutter. No. 970,709; Sept. 20; Sp. p. 3370; Gaz. vol. 158; p. 578.
Henn, Edwin C., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Bolt-machine. No. 965,184; July 26; Sp. p. 4713; Gaz. vol. 156; p. 816.
Henneberg, Henry W., Chicago, Ill. Locking mechanism for folding couches. No. 969,104; Aug. 30; Sp. p. 6941; Gaz. vol 157; p. 1208.
Henneberg, Henry W., Chicago, Ill. Locking mechanism for folding couches. No. 969,105; Aug. 30; Sp. p. 6944; Gaz. vol. 157; p. 1209.
Hennebohle, Frank, Chicago, Ill. Metallic packing. No. 945,458; Jan. 4; Sp. p. 961; Gaz. vol. 150; p. 151.
Henneböhle, Frank, Chicago, Ill. Engine-stop. No. 974,266; Nov. 1; Sp. p. 417; Gaz. vol. 160; p. 62.
Hennessey, Arthur J., St. Louis, Mo. Crude-oil burner. No. 954,959; Apr. 12; Sp. p. 2768; Gaz. vol. 153; p. 468.
Hennessey, James, Marion, Ind. Fastening means for laces. No. 972,620; Oct. 11; Sp. p. 2431; Gaz. vol. 159; p. 414.
Hennessey, James W *et al* (See Smith, George A., assignor.)
Hennessy, John J., and E. A. Capocefalo, Syracuse, N. Y. Drilling apparatus. No. 974,267; Nov. 1; Sp. p. 419; Gaz. vol. 160; p. 62.
Hennessy, Stephen T., Cincinnati, Ohio. Last. No. 948,093; Feb. 1; Sp. p. 659; Gaz. vol. 151; p. 107.
Henney, David S., Newark, N. J. Ozonizer. No. 974,789; Nov. 8; Sp. p. 1611; Gaz. vol. 160; p. 271.
Hennies, W. R. (See Erlenbach and Kohn, assignors.)
Hennig, Ernst A. P., Dresden, assignor to Ludwig Hupfeld, Aktiengesellschaft, Leipzig, Germany. Bow for self-playing violins. No. 978,373; Dec. 13; Sp. p. 2065; Gaz. vol. 161; p. 361.
Hennig, Gustav K., Wahren, assignor to Ludwig Hupfeld Aktiengesellschaft, Leipzig, Germany. Ring-bow for piano-violins. No. 946,775; Jan. 18; Sp. p. 3942; Gaz. vol. 150; p. 656.
Hennigar, George, and R. Teneyck, North Lansing, Mich. Square and protractor. No. 975,036; Nov. 8; Sp. p. 2181; Gaz. vol. 160; p. 355.
Henning, Abel, assignor, by mesne assignments, to Los Angeles Meter Company, Los Angeles, Cal. Single-diaphragm gas-meter. No. 952,806; Mar. 22; Sp. p. 4808; Gaz. vol. 152; p. 865.
Henning, Gustavus C., *et al.* (See Krause, Richard, assignor.)
Henning, Louis A. (See Henning, William B. and L. A.)
Henning, Louis A., Toledo, Ohio. Wire-fence-attaching means for posts. No. 977,189; Nov. 29; Sp. p. 6891; Gaz. vol. 160; p. 1170.
Henning, Nathan W., Lock No. 4, Pa. Ladder. No. 971,997; Oct. 4; Sp. p. 1079; Gaz. vol. 159; p. 181.
Henning, William B. and L. A., North Baltimore, Ohio. Fence-post. No. 952,807; Mar. 22; Sp. p. 4812; Gaz. vol. 152; p. 865.
Hennings, George J. T. (See Hull, Wolcott A., assignor.)
Henoen, Peter G., Leeds, N. D. Cattle-check. No. 965,297; July 26; Sp. p. 4949; Gaz. vol. 156; p. 853.
Henretta, Thomas J., assignor of one-half to J. Rose, Roanoke, Va. Air-brake. No. 959,010; May 24; Sp. p. 5633; Gaz. vol. 154; p. 947.
Henrich, Henry, New York, N. Y. Swaging-machine. No. 953,616; Mar. 29; Sp. p. 6537; Gaz. vol. 152; p. 1168.
Henrich, Henry, New York, N. Y. Machine for marking finger-rings. No. 979,297; Dec. 20; Sp. p. 4087; Gaz. vol. 161; p. 703.
Henrich, Peter, Hoquiam, Wash. Berry-box. No. 972,696; Oct. 11; Sp. p. 2575; Gaz. vol. 159; p. 438.
Henrichs, William, assignor of one-half to H. S. McDanel, Moro, Oreg. Pencil-holder. No. 957,208; May 10; Sp. p. 1534; Gaz. vol. 154; p. 271.
Henrici, William A. E., assignor, by mesne assignments, to Liberty Trust Company, trustee, Boston, Mass. Washing-machine. No. 947,776; Jan. 25; Sp. p. 6117; Gaz. vol. 150; p. 1020.
Henricks, Garrett W., Indianapolis, Ind., assignor to Improved Carbureter Company. Carbureter. No. 947,712; Jan. 25; Sp. p. 6006; Gaz. vol. 150; p. 1000.
Henricks, Henry, Valley Park, Mo. Wrench. No. 961,296; June 14; Sp. p. 2160; Gaz. vol. 155; p. 386.
Henriksen, Gustav T. E., Chicago, Ill. Oiling device for stocks and dies. No. 969,867; Sept. 13; Sp. p. 1571; Gaz. vol. 158; p. 270.
Henriod, Charles E., Neuilly-sur-Seine, France. Combustion-engine. No. 951,117; Mar. 8; Sp. p. 1322; Gaz. vol. 152; p. 242.
Henriod, Charles E., Neuilly, France. Transmission-gearing. No. 978,159; Dec. 13; Sp. p. 1607; Gaz. vol. 161; p. 285.
Henris, John E., San Francisco, Cal. Air-brake. No. 973,194; Oct. 18; Sp. p. 3741; Gaz. vol. 159; p. 639.
Henry A, Muller Company. (See Glover, Clare G., assignor.)
Henry, Albert, Nebraska City, Nebr. Smoke-stack. No. 956,897; May 3; Sp. p. 863; Gaz. vol. 154; p. 138.
Henry, Allen R. (See Henry, David O. and A. R.)
Henry, Charles J., assignor of one-third to J. Greenspun and one-third to M. J. Olsen, Perth Amboy, N. J. Bottle-closure. No. 969,621; Sept. 6; Sp. p. 1006; Gaz. vol. 158; p. 160.
Henry, Christian F. (See Fish, George W., assignor.)
Henry Conolly Company. (See Eichorn, Frank G., assignor.)
Henry, David O. and A. R., Weleetka, Okla. Pan-lifter. No. 949,573; Feb. 15; Sp. p. 3761; Gaz. vol. 151; p. 654.
Henry Disston & Sons. (See Koeberle, Robert J., assignor.)
Henry, Fred H., assignor to J. A. Brill, Philadelphia, Pa. Car-seat structure. No. 974,664; Nov. 1; Sp. p. 1330; Gaz. vol. 160; p. 206.
Henry, George. (See Weaner, Cornelius, assignor.)
Henry, George J., Jr., San Francisco, Cal., assignor of one-half to The Pelton Water Wheel Company. Safety attachment for hydraulic motors. No. 958,120; May 17; Sp. p. 3648; Gaz. vol. 154; p. 615.
Henry, George J., Jr., San Francisco, Cal., assignor of one-half to The Pelton Water Wheel Company. Valve mechanism for gate-valves. No. 968,944; Aug. 30; Sp. p. 6619; Gaz. vol. 157; p. 1153.
Henry, George J., Jr., San Francisco, Cal., assignor of one-half to The Pelton Water Wheel Company. Standardizing device for governors. No. 976,174; Nov. 22; Sp. p. 4604; Gaz. vol. 160; p. 792.

Alphabetical list of patentees—Continued.

Henry, George W., Jr., assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Flexible connecting-pipe. No. 948,858; Feb. 8; Sp. p. 2278; Gaz. vol. 151; p. 387.
Henry, James E., Reedsville, Pa. Car-coupling. No. 966,832; Aug. 9; Sp. p. 2176; Gaz. vol. 157; p. 358.
Henry, James Y., Philadelphia, Pa. Figure toy. No. 946,042; Jan. 11; Sp. p. 2292; Gaz. vol. 150; p. 381.
Henry, James Y., Philadelphia, Pa. Game. No. 964,644; July 19; Sp. p. 3519; Gaz. vol. 156; p. 602.
Henry, John. (See Nablefeld, Henry, assignor.)
Henry, John, Grand Forks, N. D. Grain-door for cars. No. 963,290; July 5; Sp. p. 663; Gaz. vol. 156; p. 93.
Henry, John L., assignor of one-half to J. C. Kenmonth, Los Angeles, Cal. Hydrocarbon-burner. No. 952,194; Mar. 15; Sp. p. 3483; Gaz. vol. 152; p. 627.
Henry, John M., *et al.* (See Hurl, Charles W., assignor.)
Henry Likly & Company. (See Erstling, Julius, assignor.)
Henry, Lyman I., *et al.* (See Callaway, David A., assignor.)
Henry, Patrick, Dallas, Tex. Vehicle-top rest. No. 954,571; Apr. 12; Sp. p. 1863; Gaz. vol. 153; p. 333.
Henry, Polidore, Spring City, Pa. Glass-making machine. No. 955,066; Apr. 12; Sp. p. 2969; Gaz. vol. 153; p. 503
Henry R. Worthington. (See Mueller, Otto H., assignor.)
Henry R. Worthington. (See Nickel, Franz F., assignor.)
Henry R. Worthington. (See Schwanhauser, William, assignor.)
Henry, Robert, Pueblo, Colo. Metallic brush. No. 946,512; Jan. 11; Sp. p. 3400; Gaz. vol. 150; p. 544.
Henry T. Adams Co. (See Adams, Henry T., assignor.)
Henry T. Sidway & Company. (See Spengler and Sidway, assignors.)
Henry, William C. A., Columbus, Ohio. Operating-lever. No. 954,515; Apr. 12; Sp. p. 1752; Gaz. vol. 153; p. 314.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Knob attachment. No. 945,165; Jan. 4; Sp. p. 326; Gaz. vol. 150; p. 55.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Knob attachment. No. 951,275; Mar. 8; Sp. p. 1645; Gaz. vol. 152; p. 292.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Door-check. No. 960,641; June 7; Sp. p. 825; Gaz. vol. 155; p. 135.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Door-closer mechanism. No. 962,142; June 21; Sp. p. 3997; Gaz. vol. 155; p. 694.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Door-controlling mechanism, No. 962,143; June 21; Sp. p. 3999; Gaz. vol. 155; p. 694.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Door-closer. No. 962,144; June 21; Sp. p. 4002; Gaz. vol. 155; p. 695.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Flush bolt. No. 967,377; Aug. 16; Sp. p. 3294; Gaz. vol. 157; p. 570.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Door-closer. No. 967,769; Aug. 16; Sp. p. 4099; Gaz. vol. 157; p. 702.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Door-closer. No. 967,770; Aug. 16; Sp. p. 4102; Gaz. vol. 157; p. 703.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Door-check. No. 970,445; Sept. 13; Sp. p. 2761; Gaz. vol. 158; p. 464.
Henry, William S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Charging-switch. No. 965,456; July 26; Sp. p. 5311; Gaz. vol. 156; p. 907.
Henry, William T., Fall River, Mass. Belt-driving mechanism. No. 947,408; Jan. 25; Sp. p. 5358; Gaz. vol. 150; p. 898.
Hensey, Thomas B., Adrian, Mich. Stop and waste cock. No. 960,323; June 7; Sp. p. 161; Gaz. vol. 155; p. 31.
Henshaw, Fred M., assignor of two-thirds to J. B. Grigsby and H. D. Dougherty, Dallas, Tex. Shaft-tug. No. 964,477; July 12; Sp. p. 3109; Gaz. vol. 156; p. 511.
Hensley, Reuben L., Terre Haute, Ind. Device for handling cement blocks. No. 976,652; Nov. 22; Sp. p. 5674; Gaz. vol. 160; p. 959.
Hensley, Sallie O., Knoxville, Tenn. Stove. No. 964,913; July 19; Sp. p. 4177; Gaz. vol. 156; p. 696.
Hensley, William T., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Brush-holder for dynamo-electric machines. No. 949,072; Feb. 15; Sp. p. 2725; Gaz. vol. 151; p. 484.
Hensley, William T., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Coil for dynamo-electric machines. No. 957,882; May 17; Sp. p. 2931; Gaz. vol. 154; p. 531.
Hensley, William T., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Brush-holder. No. 975,424; Nov. 15; Sp. p. 3008; Gaz. vol. 160; p. 513.
Hensley, William T., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Field-winding coil for dynamo-electric machines. No. 975,425; Nov. 15; Sp. p. 3009; Gaz. vol. 160; p. 513.
Henson, James A., Aubrey, Tex. Back-band buckle. No. 979,490; Dec. 27; Sp. p. 4470; Gaz. vol. 161; p. 790.
Hentschel, Augustin, Berlin, Germany. Manufacturing imitation fur. No. 979,298; Dec. 20; Sp. p. 4089; Gaz. vol. 161; p. 704.
Hentschel, Charles T., Schenectady, N. Y., assignor to General Electric Company. Automatic circuit-breaker. No. 957,335; May 10; Sp. p. 1817; Gaz. vol. 154; p. 317.
Henvis, Maurice P., Washington, D. C. Vending apparatus. No. 979,854; Dec. 27; Sp. p. 5285; Gaz. vol. 161; p. 915.
Henvis, Maurice P., Norfolk, Va., assignor to P. J. Harrigan, McKeesport, Pa. Railway dumping-car. No. 962,348; June 21; Sp. p. 4429; Gaz. vol. 155; p. 763.
Henwood, John W., London, England. Optical projection apparatus. No. 975,949; Nov. 15; Sp. p. 4107; Gaz. vol. 160; p. 693.
Henzel, John G., Chicago, Ill. Device for preventing wrecks upon railways. No. 947,385; Jan. 25; Sp. p. 5298; Gaz. vol. 150; p. 890.
Hepburn, Charles J., *et al.* (See Matthiessen, Conrad S., assignor.)
Hepler, Roland L., Kewanee, Ill. Bottling device. No. 956,704; May 3; Sp. p. 443; Gaz. vol. 154; p. 71.
Hepp, Eduard, Frankfort-on-the-Main, and C. Hartmann, assignors to Farbwerke vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Anthraquinone derivatives and making same. No. 975,863; Nov. 15; Sp. p. 3939; Gaz. vol. 160; p. 663.
Heppe, Ernest H., Upper Montclair, N. J., assignor to Strauss Brothers & Company, New York, N. Y. Display-box. No. 977,305; Nov. 29; Sp. p. 7104; Gaz. vol. 160; p. 1209.
Heppe, Kurt, New York, N. Y. Ticket-seller. No. 946,358; Jan. 11; Sp. p. 2955; Gaz. vol. 150; p. 491.
Hepworth, John W. (See Keyser, George, assignor.)
Herb, Charles W., Columbus, Ohio. Sand-pulverizing machine. No. 961,409; June 14; Sp. p. 2392; Gaz. vol. 155; p. 423.
Herb, Ferdinand, Superior, Wis. Nursing-bottle. No. 967,913; Aug. 23; Sp. p. 4395; Gaz. vol. 157; p. 774.
Herbein, George W., Seattle, Wash. Briqueting-machine. No. 965,298; July 26; Sp. p. 4950; Gaz. vol. 156; p. 854.
Herbert, Albert C., Glenlyn, Va. Rail-joint. No. 947,553; Jan. 25; Sp. p. 5695; Gaz. vol. 150; p. 945.
Herbert, Fred, Birtley, England. Bogie or truck for pipe-foundry plants. No. 966,546; Aug. 9; Sp. p. 1534; Gaz. vol. 157; p. 262.
Herbert, Fred, Coshocton, Ohio. Apparatus for use in casting pipes. No. 972,107; Oct. 4; Sp. p. 1276; Gaz. vol. 159; p. 216.
Herbert, Fred, Coshocton, Ohio. Pipe-foundry plant. No. 972,108; Oct. 4; Sp. p. 1280; Gaz. vol. 159; p. 217.
Herbert, Fred W., Pelham, N. H. Non-refillable bottle. No. 965,899; Aug. 2; Sp. p. 115; Gaz. vol. 157; p. 19.
Herbert, William K., McKeesport, Pa. Garbage-crematory. No. 963,554; July 5; Sp. p. 1181; Gaz. vol. 156; p. 182.
Herbig, Thomas, Hornbrook, Cal. Handsaw blower and hanger. No. 966,202; Aug. 2; Sp. p. 776; Gaz. vol. 157; p. 123.
Herbold, Victor P., Newton, Iowa. Scythe. No. 962,638; June 28; Sp. p. 5074; Gaz. vol. 155; p. 887.
Herbrick, John F., Tama, Iowa. Cigar-moistener. No. 949,430; Feb. 15; Sp. p. 3477; Gaz. vol. 151; p. 607.
Herbst, Max C., Hamburg, Germany. Ash-tray for keyed instruments. No. 967,149; Aug. 9; Sp. p. 2839; Gaz. vol. 157; p. 465.
Hercules, Clarence A., Aurora, Ill. Window-tent. No. 962,707; June 28; Sp. p. 5221; Gaz. vol. 155; p. 912.
Hercules Equipment Company. (See Neikirk, John O., assignor.)
Herculever Co. (See Curtis, Charles L., assignor.)
Herd, W. (See Patterson, Frank B., assignor.)
Herdrich, William F., Chicago, Ill. Pencil-sharpener. No. 955,513; Apr. 19; Sp. p. 3921; Gaz. vol. 153; p. 688.
Herdt, Louis A., assignor of one-half to J. Dalemont, Montreal, Quebec, Canada. Dynamo. No. 969,161; Sept. 6; Sp. p. 19; Gaz. vol. 158; p. 6.
Herendeen, Charles, Chicago, Ill. Making flour. No. 958,494; May 17; Sp. p. 4553; Gaz. vol. 154; p. 746.
Herendeen, Charles, Chicago, Ill. Making flour. No. 958,495; May 17; Sp. p. 4554; Gaz. vol. 154; p. 746.
Herendeen, Charles, Chicago, Ill. Flour. No. 958,496; May 17; Sp. p. 4555; Gaz. vol. 154; p. 747.
Herfurth, Ursula K., Philadelphia, Pa. Attachment for gas-fixtures. No. 961,959; June 21; Sp. p. 3580; Gaz. vol. 155; p. 631.
Hering, Ardo, New York, N. Y. Teapot. No. 945,388; Jan. 4; Sp. p. 832; Gaz. vol. 150; p. 129.
Héring, Wilhelm. (See Baudement and Héring.)
Herkert, Frederick, Jr., St. Louis, Mo. Pull-out bracket. No. 979,949; Dec. 27; Sp. p. 5473; Gaz. vol. 161; p. 946.
Herkules Patentverwertungsgesellschaft mit beschränkter Haftung. (See Kretzschmar, Johannes, assignor.)
Herlache, Arthur R., Brussels, Wis. Feed-water regulator. No. 949,896; Feb. 22; Sp. p. 4462; Gaz. vol. 151; p. 797.
Herlinger, Siegfried. (See Schön, Lüdwig, assignor.)
Herman, Charles G., assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Compressed-air locomotive. No. 959,219; May 24; Sp. p. 6073; Gaz. vol. 154; p. 1016.

Herman, Clifton E., Columbus, Ohio. Photographer's chair. No. 947,909; Feb. 1; Sp. p. 274; Gaz. vol. 151; p. 46.
Herman, Jacob, Braddock, Pa. Agricultural implement. No. 957,675; May 10; Sp. p. 2501; Gaz. vol. 154; p. 432.
Herman, Jacob E., *et al.* (See Kuhn, Frank P., assignor.)
Herman, John C., Chicago, Ill. Tire-repair device. No. 950,172; Feb. 22; Sp. p. 5085; Gaz. vol. 151; p. 893.
Herman, John L., Marblemount, Wash. Molding and transferring apparatus. No. 959,011; May 24; Sp. p. 5636; Gaz. vol. 154; p. 947.
Herman, Louis. (See Frank, Michael E., assignor.)
Herman, Lulu R., Cleveland, Ohio. Straight-edge. No. 950,696; Mar. 1; Sp. p. 501; Gaz. vol. 152; p. 80.
Herman, Raphael. (See Miggett, William L., assignor.)
Herman, Reinhold, Crafton, Pa. Tire. No. 961,443; June 14; Sp. p. 2472; Gaz. vol. 155; p. 435.
Herman, Reinhold, Crafton, Pa. Blue-printing apparatus. No. 966,016; Aug. 2; Sp. p. 368; Gaz. vol. 157; p. 59.
Herman, Reinhold, Crafton, Pa. Curtain-support for blue-printing apparatus. No. 974,965; Nov. 8; Sp. p. 2025; Gaz. vol. 160; p. 332.
Herman, Reinhold, Crafton, Pa. Transmission mechanism. No. 977,871; Dec. 6; Sp. p. 981; Gaz vol. 161; p. 155.
Hermann, Jacob, Chicago, Ill., assignor to The Champion Sanitary Bottle Seal Company. Bottle-sealing mechanism. No. 949,678; Feb. 15; Sp. p. 3938; Gaz. vol. 151; p. 686.
Hermann, Max P., and C. H. Wolff, assignors to Philadelphia Surgical Specialty Company, Philadelphia, Pa. Surgeon's and physician's case. No. 951,564; Mar. 8; Sp. p. 2239; Gaz. vol. 152; p. 389.
Hermann, Samuel, Cincinnati, Ohio. Rack-inclosure. No. 968,352; Aug. 23; Sp. p. 5361; Gaz. vol. 157; p. 925.
Hermanson, Albert G., Prescott, Wis. Mole-plow. No. 962,957; June 28; Sp. p. 5692; Gaz. vol. 155; p. 998.
Hermanson, Bennie I., Arendahl, Minn. Hoe. No. 979,299; Dec. 20; Sp. p. 4089; Gaz. vol. 161; p. 704.
Herndon, Emmett H., assignor of one-half to R. H. Whitner, Sanford, Fla. Tire. No. 972,764; Oct. 11; Sp. p. 2720; Gaz. vol. 159; p. 463.
Herndon, William T., assignor of one-half to F. L. Bundy, Laurinburg, N. C. Sterilizer. No. 959,858; May 31; Sp. p. 7411; Gaz. vol. 154; p. 1256.
Herold, Ladimir, *et al.* (See Haller, Edward, assignor.)
Heron, James C., assignor of one-half to A. C. Deverell, St. Paul, Minn. Steam-superheater. No. 979,669; Dec. 27; Sp. p. 4857; Gaz. vol. 161; p. 852.
Herr, Arthur T., *et al.* (See Foreman, David H., assignor.)
Herr, Frank, *et al.* (See Gardner, William R., assignor.)
Herr, Herbert T., Denver, Colo. Automatic controlling device for fluid-compressors. No. 953,617; Mar. 29; Sp. p. 6539; Gaz. vol. 152; p. 1168.
Herr, Herbert T., Denver, Colo., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Automatic hoist-brake and clutch-adjuster. No. 971,377; Sept. 27; Sp. p. 4736; Gaz. vol. 158; p. 827.
Herr, Homer A., Philadelphia, Pa. Automatic press for extracting oil from seed-meal. No. 968,153; Aug. 23; Sp. p. 4932; Gaz. vol. 157; p. 854.
Herr, Shirl, Crawfordsville, Ind. Threshing-machine. No. 961,775; June 21; Sp. p. 3173; Gaz. vol. 155; p. 569.
Herre, Alfred. (See Bauer and Herre.)
Herrel, Mike, Evansville, Ind. Elevating-scaffold. No. 959,740; May 31; Sp. p. 7156; Gaz. vol. 154; p. 1214.
Herrenschmidt, Henri L., Paris, France. Treating antimony ores. No. 948,545; Feb. 8; Sp. p. 1609; Gaz. vol. 151; p. 283.
Herrenschmidt, Henri L., Paris, France. Apparatus for treating antimony ores. No. 953,142; Mar. 29; Sp. p. 5520; Gaz. vol. 152; p. 1007.
Herreshoff, John B. F., assignor to General Chemical Company, New York, N. Y. Apparatus for treating burner-gases. No. 955,067; Apr. 12; Sp. p. 2970; Gaz. vol. 153; p. 504.
Herreshoff, John B. F., assignor to General Chemical Company, New York, N. Y. Treating burner-gases. No. 969,868; Sept. 13; Sp. p. 1572; Gaz. vol. 158; p. 270.
Herreshoff, John B. F., assignor to Nichols Copper Co., New York, N. Y. Ore-roasting furnace. No. 976,175; Nov. 22; Sp. p. 4608; Gaz. vol. 160; p. 793.
Herrick, Anton J. (See Merckens and Herrick.)
Herrick, Charles J. (See Herrick, George S. and C. J.)
Herrick, Charles R., Atlanta, Ga. Mixing-machine for fertilizers or cements. No. 949,536; Feb. 15; Sp. p. 3687; Gaz. vol. 151; p. 640.
Herrick, George S. and C. J., Syracuse, N. Y. Willow-stripping machine. No. 959,741; May 31; Sp. p. 7157; Gaz. vol. 154; p. 1215.
Herrick, Houghton, and E. Plowe, Davenport, Iowa. Postage-stamp feeding and affixing mechanism. No. 967,914; Aug. 23; Sp. p. 4396; Gaz. vol. 157; p. 774.
Herrick, Jay H., Chicago, Ill. Sliding-door lock. No. 950,132; Feb. 22; Sp. p. 4995; Gaz. vol. 151; p. 878.
Herrick, Warren L., San Jose, Cal. Clamp. No. 977,738; Dec. 6; Sp. p. 702; Gaz. vol. 161; p. 109.
Herrick, William J. (See La Batt, Homer C., assignor.)
Herriff, Jonas H., Erie, Kans. Oil-burner. No. 949,073; Feb. 15; Sp. p. 2726; Gaz. vol. 151; p. 485.
Herring-Hall-Marvin Safe Company. (See Prindle, Edwin J., assignor.)
Herring-Hall-Marvin Safe Company. (See Sibley, Augustus W., assignor.)
Herring, Henry H., Atascosa, Tex. Cattle-guard. No. 968,353; Aug. 23; Sp. p. 5364; Gaz. vol. 157; p. 925.
Herrington, Marshall. (See Nichols, Frank L., assignor.)
Herrmann, Albert, Chicago, Ill. Self-heating soldering-tool. No. 965,518; July 26; Sp. p. 5451; Gaz. vol. 156; p. 930.
Herrmann, Christian, Bristol, R. I. Window-ventilator. No. 977,739; Dec. 6; Sp. p. 704; Gaz. vol. 161; p. 110.
Herrmann & Grace Company. (See Breakey, George B., assignor.)
Herrmann, Jacob, assignor of one-half to A. A. Camerer, New York, N. Y. Window-frame. No. 950,850; Mar. 1; Sp. p. 828; Gaz. vol. 152; p. 133.
Herrmann, Max E. (See Latta and Herrmann.)
Herrmann, Paul E., New York, N. Y. Hair-waving. No. 949,272; Feb. 15; Sp. p. 3128; Gaz. vol. 151; p. 552.
Herrmann, Paul E., New York, N. Y. Hair-waving apparatus. No. 959,527; May 31; Sp. p. 6719; Gaz. vol. 154; p. 1144.
Herrmann, Willy. (See Mugdan and Herrmann.)
Herscher, William J. (See Eisenhuth, James E., assignor.)
Herscher, William J., Buckingham, Ill. Cultivator-shovel. No. 959,528; May 31; Sp. p. 6720; Gaz. vol. 154; p. 1144.
Herschler, Albert D., Ashland, Ohio. Tank-valve. No. 947,234; Jan. 25; Sp. p. 4914; Gaz. vol. 150; p. 837.
Hersey Manufacturing Company. (See Tilden, James A., assignor.)
Hershenson, Henry. (See Kern and Hershenson.)
Hershey, Elam, Philadelphia, Pa. Lock. No. 980,154; Dec. 27; Sp. p. 5939; Gaz. vol. 161; p. 1014.
Hershkovitz, Gerson, New York, N. Y. Flower-pot and jacket for the same. No. 955,644; Apr. 19; Sp. p. 4225; Gaz. vol. 153; p. 732.
Herstein, Henry, Brooklyn, N. Y. Clothes-line support. No. 950,133; Feb. 22; Sp. p. 4996; Gaz. vol. 151; p. 879.
Hertzberg, Harry. (See Low and Hertzberg.)
Hertzberg, Harry. (See Low, Wohl, and Hertzberg.)
Hertzberg, Harry. (See Wohl and Hertzberg.)
Hertzberg, Harry, *et al.*, trustees. (See Wohl and Hertzberg, assignors.)
Hertzberg, Harry, New York, assignor to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Marine compass. No. 980,155; Dec. 27; Sp. p. 5941; Gaz. vol. 161; p. 1014.
Hertzberg, Harry, and M. J. Wohl, New York, N. Y. Amusement device. No. 978,884; Dec. 20; Sp. p. 3143; Gaz. vol. 161; p. 558.
Hertzberg, Harry, and M. J. Wohl, New York, assignors to Economy Electric Company, Brooklyn, N. Y. Rheostat. No. 965,299; July 26; Sp. p. 4955; Gaz. vol. 156; p. 854.
Hertzberg, Harry, and M. J. Wohl, assignors to M. J. Wohl and H. Hertzberg, New York, and A. A. Low, Horseshoe, N. Y., trustees. Steering means for vessels. No. 980,156; Dec. 27; Sp. p. 5944; Gaz. vol. 161; p. 1015.
Hertzberg, Harry, Brooklyn, A. A. Low, Horseshoe, and M. J. Wohl, New York, N. Y., assignors to themselves as trustees. Semisubmerged submarine gunboat and torpedo-boat. No. 971,676; Oct. 4; Sp. p. 350; Gaz. vol. 159; p. 61.
Hertzler, Edwin E. (See Arter, James G., assignor.)
Hervey, Charles A., Lansing, Mich. Bottle and attachment therefor No. 960,918; June 7; Sp. p. 1356; Gaz. vol. 155; p. 228.
Hervey, David F., Logansport, Ind. Mechanical stoker. No. 966,547; Aug. 9; Sp. p. 1535; Gaz. vol. 157; p. 263.
Herwig, Harry W., Portsmouth, N. H. Bell system. No. 961,351; June 14; Sp. p. 2294; Gaz. vol. 155; p. 405.
Herz Manufacturing Company. (See Heilbron, Julius, assignor.)
Herz, Max, Vienna, Austria-Hungary. Sphygmomanometer. No. 945,389; Jan. 4; Sp. p. 835; Gaz. vol. 150; p. 130.
Herz, Richard, Frankfort-on-the-Main, Germany, assignor to Cassella Color Company, New York, N. Y. Blue vat dye and making same. No. 956,348; Apr. 26; Sp. p. 5773; Gaz. vol. 153; p. 1004.
Herz, Richard, Frankfort-on-the-Main, Germany, assignor to Cassella Color Company, New York, N. Y. Indophenolic compound and making same. No. 966,092; Aug. 2; Sp. p. 529; Gaz. vol. 157; p. 86.
Herz, Richard, and E. Saul, Frankfort-on-the-Main, Germany, assignors to Cassella Color Company, New York, N. Y. Blue sulfid colors and making same. No. 960,919; June 7; Sp. p. 1356; Gaz. vol. 155; p. 228.
Herzberg, Albert C., New York, N. Y. Adjustable collar and lapel for ready-made garments. No. 951,395; Mar. 8; Sp. p. 1906; Gaz. vol. 152; p. 331.
Herzberg, Martin. (See Runkel and Herzberg.)
Herzberg, Martin, and F. Runkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown azo dye. No. 953,033; Mar. 29; Sp. p. 5267; Gaz. vol. 152; p. 970.
Herzberg, Martin, and F. Runkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 953,034; Mar. 29; Sp. p. 5268; Gaz. vol. 152; p. 970.

Alphabetical list of patentees—Continued.

Herzberg, Martin, and F. Runkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown azo dye. No. 953,035; Mar. 29; Sp. p. 5269; Gaz. vol. 152; p. 971.

Herzberg, Wilhelm, and M. Ronus, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Red azo dye and making same. No. 954,960; Apr. 12; Sp. p. 2772; Gaz. vol. 153; p. 469.

Herzberg, Wilhelm, and M. Ronus, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Azo dye and making same. No. 955,068; Apr. 12; Sp. p. 2972; Gaz. vol. 153; p. 504.

Herzog, Joseph L., New York, N. Y. Cuff-button. No. 973,864; Oct. 25; Sp. p. 5139; Gaz. vol. 159; p. 893.

Herzog, Joseph L., New York, N. Y. Forming cuff-buttons. No. 979,163; Dec. 20; Sp. p. 3803; Gaz. vol. 161; p. 659.

Herzog, Julius. (See Ebeling and Herzog.)

Herzstam, Earl, Cincinnati, Ohio. Box for toilet preparations and the like. No. 947,198; Jan. 18; Sp. p. 4826; Gaz. vol. 150; p. 796.

Hescock, Ethan N., New York, N. Y. Trolley. No. 951,214; Mar. 8; Sp. p. 1509; Gaz. vol. 152; p. 273.

Heselden, Charles. (See Knowles, Marvel, and Heselden.)

Heseltine, Philip, Detroit, Mich. Peat-machine. No. 962,349; June 21; Sp. p. 4431; Gaz. vol. 155; p. 764.

Heskett, Thomas J. (See Moore and Heskett.)

Hess, Alfred S., Milwaukee, Wis. Self-cleaning rake. No. 974,268; Nov. 1; Sp. p. 422; Gaz. vol. 160; p. 63.

Hess-Bright Manufacturing Company, The. (See Riebe, August, assignor.)

Hess, Clemens. (See Connor and Hess.)

Hess, Edward B., New York, N. Y. Subway construction. No. 962,145; June 21; Sp. p. 4005; Gaz. vol. 155; p. 696.

Hess, Edward B., New York, N. Y. Subway construction. No. 977,306; Nov. 29; Sp. p. 7104; Gaz. vol. 160; p. 1209.

Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 946,359; Jan. 11; Sp. p. 2956; Gaz. vol. 150; p. 491.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Ball-bearing. No. 946,438; Jan. 11; Sp. p. 3226; Gaz. vol. 150; p. 518.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Ball-bearing. No. 946,439; Jan. 11; Sp. p. 3227; Gaz. vol. 150; p. 519.

Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Type-writing machine. No. 946,776; Jan. 18; Sp. p. 3943; Gaz. vol. 150; p. 656.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 947,443; Jan. 25; Sp. p. 5431; Gaz. vol. 150; p. 909.

Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Type-writing machine. No. 948,972; Feb. 8; Sp. p. 2498; Gaz. vol. 151; p. 425.

Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 948,973; Feb. 8; Sp. p. 2505; Gaz. vol. 151; p. 426.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 948,974; Feb. 8; Sp. p. 2507; Gaz. vol. 151; p. 426.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 950,326; Feb. 22; Sp. p. 5392; Gaz. vol. 151; p. 946.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 955,964; Apr. 26; Sp. p. 4931; Gaz. vol. 153; p. 872.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Writing-machine. No. 958,497; May 17; Sp. p. 4556; Gaz. vol. 154; p. 747.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Ball-bearing for type-writing-machine carriages. No. 958,498; May 17; Sp. p. 4558; Gaz. vol. 154; p. 747.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 958,702; May 17; Sp. p. 4950; Gaz. vol. 154; p. 813.

Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Type-writing machine. No. 974,882; Nov. 8; Sp. p. 1818; Gaz. vol. 160; p. 302.

Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 974,883; Nov. 8; Sp. p. 1819; Gaz. vol. 160; p. 302.

Hess, Edward B., New York, and J. M. Stoughton, Yonkers, N. Y., assignors to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 967,915; Aug. 23; Sp. p. 4399; Gaz. vol. 157; p. 775.

Hess, Edward B., New York, N. Y., and J. M. Stoughton, Norwalk, Ohio, assignors to Royal Typewriter Company, New York, N. Y. Writing-machine. No. 967,916; Aug. 23; Sp. p. 4402; Gaz. vol. 157; p. 775.

Hess, George. (See Smith, George E., assignor.)

Hess, George L., La Junta, Colo. Metallic flume. No. 973,656; Oct. 25; Sp. p. 4718; Gaz. vol. 159; p. 820.

Hess, Henry, Philadelphia, Pa. Ball-bearing. No. 950,919; Mar. 1; Sp. p. 957; Gaz. vol. 152; p. 153.

Hess, Henry, Philadelphia, Pa. Ball-bearing. No. 951,244; Mar. 8; Sp. p. 1570; Gaz. vol. 152; p. 282.

Hess, Henry, Philadelphia, Pa. Ball-bearing. No. 967,124; Aug. 9; Sp. p. 2792; Gaz. vol. 157; p. 457.

Hess, Henry, Philadelphia, Pa. Metal-working machine. No. 970,330; Sept. 13; Sp. p. 2532; Gaz. vol. 158; p. 427.

Hess, Henry, Philadelphia, Pa. Roller-bearing. No. 980,101; Dec. 27; Sp. p. 5804; Gaz. vol. 161; p. 996.

Hess, Henry, Wawa, Pa. Ball-bearing. No. 959,529; May 31; Sp. p. 6721; Gaz. vol. 154; p. 1144.

Hess, Henry, Wawa, Pa. Ball-bearing. No. 967,519; Aug. 16; Sp. p. 3609; Gaz. vol. 157; p. 619.

Hess, Henry, Wawa, Pa. Ball-bearing. No. 967,520; Aug. 16; Sp. p. 3611; Gaz. vol. 157; p. 620.

Hess, Henry, Wawa, Pa. Ball-bearing. No. 975,616; Nov. 15; Sp. p. 3421; Gaz. vol. 160; p. 581.

Hess, John A., Philadelphia, Pa. File-cutting machine. No. 975,236; Nov. 8; Sp. p. 2621; Gaz. vol. 160; p. 424.

Hess, John M., *et al.* (See Pitts, Edward L., assignor.)

Hess, Joseph J., North Washington, Iowa. Pump-stand. No. 953,830; Apr. 5; Sp. p. 295; Gaz. vol. 153; p. 52.

Hess, William H., Wichita, Kans. Forage and grain grinder. No. 963,224; July 5; Sp. p. 502; Gaz. vol. 156; p. 70.

Hessberger, Johannes. (See Schönherr and Hessberger.)

Hesse, George A., assignor to Idaho Holding Co., Wallace, Idaho. Current water-wheel. No. 965,108; July 19; Sp. p. 4558; Gaz. vol. 156; p. 760.

Hesse, John P., Brooklyn, N. Y. Screw-lock. No. 948,326; Feb. 8; Sp. p. 1137; Gaz. vol. 151; p. 209.

Hesse, Leopold. (See Gunther and Hesse.) (Reissue.)

Hesse, Leopold. (See Günther, Hesse, and Zart.)

Hessel, Anders. (See Larson and Hessel.)

Hesselbarth, Hugo, Greifswald, Germany. Badge. No. 973,041; Oct. 18; Sp. p. 3382; Gaz. vol. 159; p. 586.

Hesselman, Knut J. E., Stockholm, Sweden. Auxiliary motor for reversing reversible internal-combustion motors. No. 948,730; Feb. 8; Sp. p. 2014; Gaz. vol. 151; p. 345.

Hesselman, Knut J. E., Stockholm, Sweden. Internal-combustion engine. No. 963,225; July 5; Sp. p. 503; Gaz. vol. 156; p. 71.

Hesske, August R., Philadelphia, Pa. Capsule-filler. No. 946,940; Jan. 18; Sp. p. 4337; Gaz. vol. 150; p. 713.

Hesterhagen, August H., Jersey City, N. J. Electric-wire coupling. No. 964,969; July 19; Sp. p. 4285; Gaz. vol. 156; p. 715.

Hetchler, Frank J., Frankville, N. Y. Can-soldering machine. No. 953,143; Mar. 29; Sp. p. 5521; Gaz. vol. 152; p. 1007.

Hettel, Anton. (See Beal and Hettel.)

Hettwer, Frederick W., Brooklyn, N. Y. Sliding-door lock. No. 975,037; Nov. 8; Sp. p. 2182; Gaz. vol. 160; p. 355.

Hetz, Lewis, New York, N. Y. Kinetoscope. No. 956,528; May 3; Sp. p. 40; Gaz. vol. 154; p. 10.

Heudebert, Charles A., Nanterre, France. Manufacture of bread. No. 950,920; Mar. 1; Sp. p. 958; Gaz. vol. 152; p. 153.

Heudebert, Charles A., Nanterre, France. Manufacture of bread. No. 950,921; Mar. 1; Sp. p. 959; Gaz. vol. 152; p. 153.

Heuer, Paul, Dresden, Germany. Change-speed belt-gearing. No. 953,144; Mar. 29; Sp. p. 5523; Gaz. vol. 152; p. 1007.

Heuermann, William, Sedalia, Mo. Heating-stove. No. 962,430; June 28; Sp. p. 4621; Gaz. vol. 155; p. 816.

Heulings, Samuel M., assignor to Star Milk Cooler Company, Haddonfield, N. J. Case-filler. No. 952,246; Mar. 15; Sp. p. 3593; Gaz. vol. 152; p. 647.

Heupel, Frederick K., and I. B. Nordlinger, Washington, D. C. Combined sash-lock and burglar-alarm. No. 961,229; June 14; Sp. p. 2004; Gaz. vol. 155; p. 362.

Heuser, John H., Chicago, Ill. Photographic-printing frame. No. 973,783; Oct. 25; Sp. p. 4972; Gaz. vol. 159; p. 864.

Heuser, William L., St. Louis, Mo. Faucet. No. 974,790; Nov. 8; Sp. p. 1612; Gaz. vol. 160; p. 271.

Heusermann, Herman T., Peoria, Ill. Floor-dressing machine. No. 972,533; Oct. 11; Sp. p. 2217; Gaz. vol. 159; p. 383.

Heusner, Karl. (See Blank and Heusner.)

Heusser, Ernest R., Murray, Utah. Game-counter. No. 975,237; Nov. 8; Sp. p. 2628; Gaz. vol. 160; p. 424.

Heverling, John B., St. Louis, Mo. Car construction. No. 969,278; Sept. 6; Sp. p. 268; Gaz. vol. 158; p. 44.

Hewes, James E., Plattsburg, N. Y. Electric furnace. No. 969,622; Sept. 6; Sp. p. 1007; Gaz. vol. 158; p. 161.

Hewitt, Allin W., Bogota, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 945,325; Jan. 4; Sp. p. 694; Gaz. vol. 150; p. 108.

Hewitt, Andrew C., *et al.* (See Hewitt and Thomas, assignors.)

Hewitt, Andrew C., and W. C. Thomas, assignors of two-thirds to said Hewitt and one-third to G. W. Krout, Philadelphia, Pa. Telephone attachment. No. 970,449; Sept. 13; Sp. p. 2769; Gaz. vol. 158; p. 466.

Hewitt, Arthur C., Cohoes, N. Y. Lantern-holder. No. 971,378; Sept. 27; Sp. p. 4740; Gaz. vol. 158; p. 828.

Hewitt, Charles B. (See Zackey, William W., assignor.)

Hewitt, Daniel. (See Kane, William L., assignor.)

Hewitt, Ditus P., assignor of one-half to C. H. Coffield, Rockdale, Tex. Breast-strap. No. 953,333; Mar. 29; Sp. p. 5920; Gaz. vol. 152; p. 1069.

Alphabetical list of patentees—Continued.

Hewitt, James E., League City, Tex. Cistern-cover. No. 979,004; Dec. 20; Sp. p. 3427; Gaz. vol. 161; p. 602.
Hewitt, John H., Tunis, Tex. Cultivator. No. 952,902; Mar. 22; Sp. p. 4997; Gaz. vol. 152; p. 898.
Hewitt, Linwood T., *et al.* (See Levey, Thomas J., assignor.)
Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company. Means for suppressing the resistance of the negative-electrode flame in electric vapor apparatus. No. 954,434; Apr. 12; Sp. p. 1553; Gaz. vol. 153; p. 286.
Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company. Apparatus for transmitting and utilizing electric currents. No. 955,459; Apr. 19; Sp. p. 3805; Gaz. vol. 153; p. 668.
Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company. Transmitting and utilizing electric currents. No. 955,460; Apr. 19; Sp. p. 3808; Gaz. vol. 153; p. 669.
Hewitt, Peter C., assignor to Cooper Hewitt Electric Company, New York, N. Y. Electrode for vapor-lamps. No. 965,900; Aug. 2; Sp. p. 116; Gaz. vol. 157; p. 20.
Hewitt, Peter C., New York, N. Y., assignor to Cooper Hewitt Electric Company. Vapor-lamp with concentrated radiation. No. 966,203; Aug. 2; Sp. p. 777; Gaz. vol. 157; p. 123.
Hewitt, Peter C., assignor to Cooper Hewitt Electric Company, New York, N. Y. Induction-lamp. No. 966,204; Aug. 2; Sp. p. 778; Gaz. vol. 157; p. 123.
Hewitt, Peter C., assignor to Cooper Hewitt Electric Company, New York, N. Y. Apparatus for transforming electrical energy. No. 966,205; Aug. 2; Sp. p. 781; Gaz. vol. 157; p. 123.
Hewitt, Richard, Brandon, Manitoba, assignor of two-thirds to H. C. McMartin, Winnipeg, Canada. Register. No. 960,548; June 7; Sp. p. 637; Gaz. vol. 155; p. 103.
Hewitt, Wallace B., West Pittsburg, assignor to Safety Armorite Conduit Company, Pittsburg, Pa. Device for removing metallic coverings from insulated conductors. No. 967,635; Aug. 16; Sp. p. 3830; Gaz. vol. 157; p. 657.
Hewitt, Wallace B., West Pittsburg, assignor to Safety Armorite Conduit Company, Pittsburg, Pa. Device for removing metallic coverings from insulated conductors. No. 967,636; Aug. 16; Sp. p. 3831; Gaz. vol.157; p. 658.
Hewitt, William J., assignor to F. B. Keever, San Francisco, Cal. Muffler. No. 959,742; May 31; Sp. p. 7160; Gaz. vol. 154; p. 1215.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Circuit-breaker. No. 946,220; Jan. 11; Sp. p. 2655; Gaz. vol. 150; p. 442.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Ventilated fuse. No. 947,235; Jan. 25; Sp. p. 4914; Gaz. vol. 150; p. 838.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Reverse-current relay. No. 953,420; Mar. 29; Sp. p. 6120; Gaz. vol. 152; p. 1099.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 960,324; June 7; Sp. p. 162; Gaz. vol. 155; p. 31.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Solenoid operating mechanism. No. 962,958; June 28; Sp. p. 5695; Gaz. vol. 155; p. 998.
Hewlett, Edward M., and T. E. Button, Schenectady, N. Y., assignors to General Electric Company. High-potential switch. No. 973,657; Oct. 25; Sp. p. 4720; Gaz. vol. 159; p. 820.
Hewlett, Fredrick H., Valdosta, Ga. Hame-tug. No. 956,090; Apr. 26; Sp. p. 5209; Gaz. vol. 153; p. 916.
Hewson, Earl G., *et al.* (See Wolf, George P., assignor.)
Hewson, Robert, Lynn, Mass., assignor to General Electric Company. Arc-lamp. No. 950,000; Feb. 22; Sp. p. 4722; Gaz. vol. 151; p. 834.
Hey, John G., assignor to The Cincinnati Pulley Machinery Company, Cincinnati, Ohio. Belt-tightener. No. 945,326; Jan. 4; Sp. p. 708; Gaz. vol. 150; p. 109.
Heybach, Frederick J., assignor to The American Automatic Machinery Company, Savannah, Ga. Can-packing apparatus. No. 945,533; Jan. 4; Sp. p. 1135; Gaz. vol. 150; p. 175.
Heydebrand, Ferdinand C. von. (See Mielck and Heydebrand.)
Heydenhauss, Hermann, Vienna, Austria-Hungary. Substitute for celluloid. No. 950,392; Feb. 22; Sp. p. 5513; Gaz. vol. 151; p. 960.
Heydenreich, Oscar F., New Orleans, La. Portable tramway. No. 975,238; Nov. 8; Sp. p. 2630; Gaz. vol. 160; p. 424.
Heydlauff, Victor W., Township one, Range one, Alberta, Canada. Wagon-seat lock. No. 948,505; Feb. 8; Sp. p. 1531; Gaz. vol. 151; p. 270.
Heyer, William B., Newport, Vt. Band-saw. No. 978,374; Dec. 13; Sp. p. 2068; Gaz. vol. 161; p. 361.
Heyl, Martin L., and J. J. Lawlor, Zelienople, Pa. Molding-machine. No. 968,560; Aug. 30; Sp. p. 5802; Gaz. vol. 157; p. 1022.
Heyl, Triphon D., *et al.* (See Sohm, Alfred L., assignor.)
Heyman, Albert E., Edgerton, Ind. Sod-line-cutting device. No. 956,091; Apr. 26; Sp. p. 5210; Gaz. vol. 153; p. 916.
Heymann, Charles E. (See Montilli, Leonard, assignor.)
Heymann, Hugo, Berlin, Germany, assignor to General Electric Company. Motor control. No. 962,835; June 28; Sp. p. 5476; Gaz. vol. 155; p. 957.
Heymann, Nathan, New Orleans, La. Refrigerator. No. 965,711; July 26; Sp. p. 5874; Gaz. vol. 156; p. 997.
Heymanson, Edward. (See Thornton and Heymanson.)
Heys, John J., assignor, by mesne assignments, to Brennahan Shoe Machinery Company, Lynn, Mass. Shoe-sewing machine. No. 957,954; May 17; Sp. p. 3110; Gaz. vol. 154; p. 555.
Heys, John J., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Pulling-over machine for boots and shoes. No. 957,955; May 17; Sp. p. 3115; Gaz. vol. 154; p. 556.
Heys, John J., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Shoe-supporting jack. No. 966,441; Aug. 9; Sp. p. 1250; Gaz. vol. 157; p. 226.
Heyser, William, Baltimore, Md. Feed-regulator. No. 966,833; Aug. 9; Sp. p. 2178; Gaz. vol. 157; p. 358.
Heyser, William, Baltimore, Md. Oyster-pail. No. 971,998; Oct. 4; Sp. p. 1080; Gaz. vol. 159; p. 181.
Hiatt, Charles, and R. B. Page, Los Angeles, Cal. Sash-holder. No. 950,697; Mar. 1; Sp. p. 501; Gaz. vol. 152; p. 80.
Hiatt, Demmie. (See Olson and Hiatt.)
Hibbard, Charles B., assignor of one-half to A. D. Peck, Pulaski, N. Y. Train-order-delivering device. No. 947,236; Jan. 25; Sp. p. 4916; Gaz. vol. 150; p. 838.
Hibbard, Charles L., Chicago, Ill., assignor to New Jersey Patent Company, West Orange, N. J. Controlling device for phonographs. No. 970,223; Sept. 13; Sp. p. 2326; Gaz. vol. 158; p. 391.
Hibbard, Charles T., assignor to Electric Machinery Company, Minneapolis, Minn. Electric generator and motor. No. 957,209; May 10; Sp. p. 1535; Gaz. vol. 154; p. 271.
Hibbard, Edward R., Oak Park, assignor to Grip Nut Company, Chicago, Ill. Making self-locking nuts. No. 958,810; May 24; Sp. p. 5206; Gaz. vol. 154; p. 878.
Hibbard, Edward R., assignor to Grip Nut Company, Chicago, Ill. Self-locking nut. No. 960,090; May 31; Sp. p. 7953; Gaz. vol. 154; p. 1336.
Hibbard, Henry D., Plainfield, N. J. Making manganese steel. No. 954,185; Apr. 5; Sp. p. 1037; Gaz. vol. 153; p. 176.
Hibbard, Henry D., Plainfield, N. J. Ball-mill or comminuter plate. No. 971,196; Sept. 27; Sp. p. 4383; Gaz. vol. 158; p. 769.
Hibbert, Irving H. (See Hibbert, John E. and I. H.)
Hibbert, John E. and I. H., Sterling City, Cal. Band-saw tensioning and moving machine. No. 971,841; Oct. 4; Sp. p. 693; Gaz. vol. 159; p. 122.
Hibschle, Herman J., Victor, assignor to The MacCormick Drill and Manufacturing Company, Incorporated, Denver, Colo. Rock-drill. No. 962,350; June 21; Sp. p. 4432; Gaz. vol. 155; p. 764.
Hick, Harry J., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 973,195; Oct. 18; Sp. p. 3744; Gaz. vol. 159; p. 639.
Hickerson, Jacob F., McComb, Ohio. Water-heating system. No. 958,121; May 17; Sp. p. 3650; Gaz. vol. 154; p. 615.
Hickey, Charles M., Stockton, Cal. Dredger-bucket. No. 975,239; Nov. 8; Sp. p. 2635; Gaz. vol. 160; p. 425.
Hickey, Edward, Sawyers Bar, Cal. Detachable bail. No. 956,349; Apr. 26; Sp. p. 5774; Gaz. vol. 153; p. 1004.
Hickey, John, Buffalo, N. Y. Dust-arrester. No. 972,534; Oct. 11; Sp. p. 2219; Gaz. vol. 159; p. 384.
Hickey, Joseph A., Philadelphia, Pa. Shower-bath apparatus. No. 947,330; Jan. 25; Sp. p. 5166; Gaz. vol. 150; p. 872.
Hickey, Joseph R., Providence, R. I. Automobile-fender. No. 946,777; Jan. 18; Sp. p. 3944; Gaz. vol. 150; p. 656.
Hickman, Hezekiah M., Wellington, Kans. Grain-door. No. 947,063; Jan. 18; Sp. p. 4568; Gaz. vol. 150; p. 753.
Hickman, John F. (See Martin, Abraham G., assignor.)
Hickman, John F., Tampa, Fla. Telegraph and other poles. No. 965,185; July 26; Sp. p. 4715; Gaz. vol. 156; p. 816.
Hickman, T. Albert, Plainville, Kans. Propeller. No. 965,457; July 26; Sp. p. 5315; Gaz. vol. 156; p. 908.
Hickok, Lester E., assignor of one-half to The Cleveland Hardware Company, Cleveland, Ohio. Vehicle-gear. No. 974,141; Nov. 1; Sp. p. 70; Gaz. vol. 160; p. 14.
Hickok, Lester E., assignor of one-half to The Cleveland Hardware Company, Cleveland, Ohio. Vehicle-gear. No. 974,142; Nov. 1; Sp. p. 72; Gaz. vol. 160; p. 15.
Hickok, Lester E., assignor of one-half to The Cleveland Hardware Company, Cleveland, Ohio. Vehicle-gear. No. 974,143; Nov. 1; Sp. p. 73; Gaz. vol. 160; p. 15.
Hickok, Lester E., assignor of one-half to The Cleveland Hardware Company, Cleveland, Ohio. Means for detachably supporting vehicle equalizer-bars. No. 974,144; Nov. 1; Sp. p. 75; Gaz. vol. 160; p. 15.
Hickok, Robert D., Atlanta, Ga. Electric measuring instrument. No. 962,759; June 28; Sp. p. 5327; Gaz. vol. 155; p. 931.
Hickok, William O., 4th, New York, N. Y., and J. A. Scott, Passaic, N. J. Mixer. No. 968,660; Aug. 30; Sp. p. 6022; Gaz. vol. 157; p. 1057.
Hickox, Clifford B. (See Fahlstrom, Johan E., assignor.)

Alphabetical list of patentees—Continued.

Hickox, William R., Barberton, Ohio. Combined funnel and measure. No. 949,074; Feb. 15; Sp. p. 2727; Gaz. vol. 151; p. 485.
Hicks, Charles E., Mechanicsville, N. Y. Turbine. No. 976,260; Nov. 22; Sp. p. 4829; Gaz. vol. 160; p. 824.
Hicks, Clara K., Louisville, Ky. Curtain-stretcher. No. 973,196; Oct. 18; Sp. p. 3747; Gaz. vol. 159; p. 640.
Hicks, Edwin S. (See Linn, George S., assignor.)
Hicks, Frank J., Belding, Mich. Pass-book. No. 961,857; June 21; Sp. p. 3372; Gaz. vol. 155; p. 597.
Hicks, George C., Jr., assignor to The P. H. & F. M. Roots Company, Connersville, Ind. Shaft-packing. No. 955,332; Apr. 19; Sp. p. 3536; Gaz. vol. 153; p. 625.
Hicks, George C., Jr., assignor to The P. H. & F. M. Roots Company, Connersville, Ind. Gas-engine starter. No. 956,852; May 3; Sp. p. 770; Gaz. vol. 154; p. 122.
Hicks, George C., Jr., assignor to The P. H. & F. M. Roots Company, Connersville, Ind. Shaft-bearing. No. 961,496; June 14; Sp. p. 2599; Gaz. vol. 155; p. 453.
Hicks, George C., Jr., assignor to The P. H. & F. M. Roots Company, Connersville, Ind. Valve for blowers. No. 975,240; Nov. 8; Sp. p. 2636; Gaz. vol. 160; p. 425.
Hicks, George C., Jr., and R. C. Enyart, assignors to The P. H. & F. M. Roots Company, Connersville, Ind. Fluid-pressure governor. No. 973,197; Oct. 18; Sp. p. 3748; Gaz. vol. 159; p. 640.
Hicks, James A., Atlanta, Ga. Crossover connection for fluid-pressure brake systems. No. 973,042; Oct. 18; Sp. p. 3383; Gaz. vol. 159; p. 586.
Hicks, James A., Atlanta, Ga. Crossover connection for fluid-pressure-brake pipes. No. 973,043; Oct. 18; Sp. p. 3385; Gaz. vol. 159; p. 586.
Hicks, James M., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Means for introducing liquid into vessels through closed chambers of filling-machines. No. 948,762; Feb. 8; Sp. p. 2098; Gaz. vol. 151; p. 356.
Hicks, James M., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Locking mechanism for vessel-filling machines. No. 949,476; Feb. 15; Sp. p. 3562; Gaz. vol. 151; p. 621.
Hicks, James M., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Applying sealing-caps to vessels. No. 949,477; Feb. 15; Sp. p. 3563; Gaz. vol. 151; p. 621.
Hicks, James M., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Sealing-cap controller. No. 949,478; Feb. 15; Sp. p. 3565; Gaz. vol. 151; p. 621.
Hicks, John A., Summit, N. J., assignor, by mesne assignments, to Auto Stopper Company, New York, N. Y. Machine for capping vessels. No. 948,139; Feb. 1; Sp. p. 744; Gaz. vol. 151; p. 121.
Hicks, John A., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Means for introducing liquid into vessels through a closed chamber by an adjustable nozzle. No. 949,479; Feb. 15; Sp. p. 3566; Gaz. vol. 151; p. 622.
Hicks, John A., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Charging vessels with carbonated liquid and flavoring-syrup under pressure. No. 952,903; Mar. 22; Sp. p. 4997; Gaz. vol. 152; p. 898.
Hicks, John A., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Implement for applying sealing-caps to vessels. No. 953,017; Mar. 22; Sp. p. 5223; Gaz. vol. 152; p. 936.
Hicks, John L., Austin, Ky. Seeder. No. 951,073; Mar. 1; Sp. p. 1234; Gaz. vol. 152; p. 203.
Hicks, John T., Medford, Mass. Sheet or leaf holder. No. 950,173; Feb. 22; Sp. p. 5086; Gaz. vol. 151; p. 893.
Hicks, Leonidas E., Stinson, W. Va. Telephone system. No. 958,248; May 17; Sp. p. 3911; Gaz. vol. 154; p. 658.
Hicks, Milton A., Weathersfield, assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Milking-machine. No. 961,960; June 21; Sp. p. 3582; Gaz. vol. 155; p. 631.
Hicks, Rufus L., Sinclair, Tex. Puzzle. No. 953,908; Apr. 5; Sp. p. 443; Gaz. vol. 153; p. 81.
Hicks, Sam W., *et al.* (See Elliott, William R., assignor.)
Hicks, Thomas B. (See Younglove, Thomas J., assignor.)
Hicks, William T., Bloomington, Ind. Water-heater. No. 958,499; May 17; Sp. p. 4559; Gaz. vol. 154; p. 747.
Hicks, William T., Bloomington, Ind. Mold for posts. No. 962,760; June 28; Sp. p. 5330; Gaz. vol. 155; p. 931.
Hicks, William T., Bloomington, Ind. Post. No. 963,004; June 28; Sp. p. 5790; Gaz. vol. 155; p. 1013.
Hickson, Joseph, Mount Gilead, Ohio. Mold for making culverts, conduits, and similar hollow structures. No. 955,156; Apr. 19; Sp. p. 3149; Gaz. vol. 153; p. 566.
Hiering, Christian, and A. Fuller, assignors to J. E. Mergott Company, Newark, N. J. Match-box. No. 956,092. Apr. 26; Sp. p. 5212; Gaz. vol. 153; p. 917.
Hiering, Christian, and A. Fuller, assignors to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 972,765; Oct. 11; Sp. p. 2721; Gaz. vol. 159; p. 463.
Hiers, Charles C. (See McFadden and Hiers.)
Hiestand, William H., Chicago, Ill. Target-trap. No. 946,221; Jan. 11; Sp. p. 2659; Gaz. vol. 150; p. 443.
Hiett, James W., Bono, Ark. Colter-fastening. No. 962,508; June 28; Sp. p. 4789; Gaz. vol. 155; p. 843.
Hiett, William S., assignor of one-half to J. C. Ezzell, Rock Mart, Ga. Shingle-machine. No. 954,803; Apr. 12; Sp. p. 2425; Gaz. vol. 153; p. 414.
Hiett, William S., assignor of one-third to J. M. Baxter and one-third to J. R. Reeves, Draketown, Ga. Plow-frame. No. 953,997; Apr. 5; Sp. p. 625; Gaz. vol. 153; p. 111.
Higdon, Thomas R., Repton, Ala. Ash-pan. No. 960,174; May 31; Sp. p. 8109; Gaz. vol. 154; p. 1364.
Higgin, Henry, Newport, Ky. Machine for marking laundry-tags, clothes, and other articles made of textile fabrics. No. 959,860; May 31; Sp. p. 7416; Gaz. vol. 154; p. 1256.
Higgin, Henry, Newport, Ky. Mechanism for inking the marking-type of machines for marking textile fabrics. No. 966,915; Aug. 9; Sp. p. 2341; Gaz. vol. 157; p. 384.
Higgin, Henry, Newport, Ky. Machine for making sheet-metal tubes. No. 966,916; Aug. 9; Sp. p. 2347; Gaz. vol. 157; p. 385.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Curtain-fastener. No. 947,427; Jan. 25; Sp. p. 5393; Gaz. vol. 150; p. 904.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Top-prop nut. No. 949,897; Feb. 22; Sp. p. 4464; Gaz. vol. 151; p. 798.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Screen. No. 950,634; Mar. 1; Sp. p. 364; Gaz. vol. 152; p. 59.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Device for making windows tight against the ingress and egress of air. No. 955,157; Apr. 19; Sp. p. 3151; Gaz. vol. 153; p. 566.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Swiveled running-gear. No. 955,873; Apr. 26; Sp. p. 4739; Gaz. vol. 153; p. 840.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Window-screen. No. 959,859; May 31; Sp. p. 7411; Gaz. vol. 154; p. 1256.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Running-gear. No. 959,935; May 31; Sp. p. 7599; Gaz. vol. 154; p. 1283.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Type-holder. No. 962,146; June 21; Sp. p. 4010; Gaz. vol. 155; p. 696.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Reach for vehicles. No. 972,191; Oct. 11; Sp. p. 1484; Gaz. vol. 159; p. 264.
Higgin Manufacturing Company, The. (See Higgin, Henry, assignor.)
Higginbotham, Averl R. (See McGill and Higginbotham.)
Higgins, Albert G., assignor of one-half to R. M. Havens, Kansas City, Mo. Making artificial-stone or plaster columns. No. 945,948; Jan. 11; Sp. p. 2099; Gaz. vol. 150; p. 350.
Higgins, Albert G., assignor of one-half to R. M. Havens, Kansas City, Mo. Column and making same. No. 945,949; Jan. 11; Sp. p. 2102; Gaz. vol. 150; p. 350.
Higgins, Arthur H. (See Sulman, Greenway, and Higgins.)
Higgins, Campbell P., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Machine for forming seamless tubes. No. 961,128; June 14; Sp. p. 1792; Gaz. vol. 155; p. 324.
Higgins, Campbell P., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Machine for forming seamless tubes. No. 961,129; June 14; Sp. p. 1793; Gaz. vol. 155; p. 325.
Higgins, Campbell P., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Machine for forming seamless tubes. No. 961,130; June 14; Sp. p. 1795; Gaz. vol. 155; p. 325.
Higgins, Campbell P., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Machine for forming seamless tubes. No. 961,131; June 14; Sp. p. 1796; Gaz. vol. 15o; p. 325.
Higgins, Campbell P., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Machine for forming seamless tubes. No. 961,132; June 14; Sp. p. 1797; Gaz. vol. 155; p. 326.
Higgins, Campbell P., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Machine for forming seamless tubes. No. 961,133; June 14; Sp. p. 1798; Gaz. vol. 155; p. 326.
Higgins, Campbell P., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Pipe-coupling. No. 977,740; Dec. 6; Sp. p. 706; Gaz. vol. 161; p. 110.
Higgins, Elmer E. (See Folsom and Higgins.)
Higgins, Emerson C., Bayonne, N. J., assignor of one-half to A. D. Britton, trustee, Brooklyn, N. Y. Apparatus for extracting tin from tin scraps. No. 965,580; July 26; Sp. p. 5597; Gaz. vol. 156; p. 952.
Higgins, Eugene, Jackson, Mich. Operating oil-engines. No. 952,430; Mar. 15; Sp. p. 3955; Gaz. vol. 152; p. 708.
Higgins, Francis W., assignor to The Carborundum Company, Niagara Falls, N. Y. Purifying electrometallurgical products. No. 966,399; Aug. 2; Sp. p. 1146; Gaz. vol. 157; p. 185.
Higgins, Francis W., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive article. No. 978,747; Dec. 13; Sp. p. 2883; Gaz. vol. 161; p. 488.

Alphabetical list of patentees—Continued.

Higgins, Mary E., Port Huron, Mich. Flour-sifter. No. 945,950; Jan. 11; Sp. p. 2103; Gaz. vol. 150; p. 350.
Higgins, Robert A., Jersey City, N. J. Method and means for filling pools and tanks. No. 953,529; Mar. 29; Sp. p. 6360; Gaz. vol. 152; p. 1139.
Higgins, Robert B., St. Louis, Mo. Temporary support for the filling of fireproof structures. No. 953,014; Mar. 22; Sp. p. 5220; Gaz. vol. 152; p. 935.
Higgins, Robert B., St. Louis, Mo. Adjustable concrete form. No. 975,241; Nov. 8; Sp. p. 2638; Gaz. vol. 160; p. 426.
Higgins, Robert B., and H. Albers, St. Louis, Mo. Adjustable concrete-form. No. 975,242; Nov. 8; Sp. p. 2641; Gaz. vol. 160; p. 426.
Higgins, Samuel, Milwaukee, Wis. Fan-blower. No. 957,607; May 10; Sp. p. 2345; Gaz. vol. 154; p. 408.
Higgins, William H. C., Jr., assignor to M. Rumely Company, Laporte, Ind. Carbureter. (Reissue.) No. 13,111; May 3; Sp. p. 1444; Gaz. vol. 154; p. 232.
Higginson, Joseph, Jr., and H. Arundel, Stockport, England. Yarn or thread winding and like machine. No. 951,396; Mar. 8; Sp. p. 1908; Gaz. vol. 152; p. 332.
Higgs, Charles W., London, England. Internal-combustion engine. No. 957,336; May 10; Sp. p. 1821; Gaz. vol. 154; p. 317.
High Frequency Ignition Coil Company. (See Seeley, James E., assignor.)
High Speed Ring Company. (See Forbes, Charles S., assignor.)
Higham, Harry W., Sanderstead, England, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Typewriting machine. No. 945,951; Jan. 11; Sp. p. 2104; Gaz. vol. 150; p. 351.
Higham, Thomas R., and J. Shakespeare, New York, N. Y. Vise and support. No. 954,961; Apr. 12; Sp. p. 2773; Gaz. vol. 153; p. 469.
Highbarger, Charles E., Great Falls, Mont. Railway-tie. No. 950,327; Feb. 22; Sp. p. 5395; Gaz. vol. 151; p. 947.
Highfield, Caroline J. F., Bayswater, London, England. Clip or fastener applicable for securing boot-laces and neckties. No. 960,013; May 31; Sp. p. 7785; Gaz. vol. 154; p. 1310.
Higley, Alva E. and A. S., Salem, Wis. Water-heater. No. 946,222; Jan. 11; Sp. p. 2660; Gaz. vol. 150; p. 443.
Higley, Archer S. (See Higley, Alva E. and A. S.)
Higley, John B., and T. F. Ryan, Eddystone, Pa. Composition for coating metals. No. 945,843; Jan. 11; Sp. p. 1877; Gaz. vol. 150; p. 311.
Higman, Arthur B., *et al.* (See Lennox, Talbot, assignor.)
Hikec, Mirko, Collinsville, Ill. Smelting-furnace. No. 945,390; Jan. 4; Sp. p. 836; Gaz. vol. 150; p. 130.
Hilborn, Herbert H., and C. E. Roehl, Brooklyn, N. Y. Reinforcing member for hollow structures and structure so reinforced. No. 947,178; Jan. 18; Sp. p. 4785; Gaz. vol. 150; p. 789.
Hilburger, Fred, Castle Rock, Colo. Grate. No. 965,186; July 26; Sp. p. 4717; Gaz. vol. 156; p. 817.
Hildebran, P. A., *et al.* (See Winkler, Ehregott T., assignor.)
Hildebrand, Henry W., Jr., Denver, Colo. Box construction. No. 945,094; Jan. 4; Sp. p. 185; Gaz. vol. 150; p. 31.
Hildebrand, John S., near Hildebran, N. C. Canning apparatus. No. 959,861; May 31; Sp. p. 7428; Gaz. vol. 154; p. 1257.
Hildebrand, John W., Russell, Kans. Feeder. No. 956,093; Apr. 26; Sp. p. 5214; Gaz. vol. 153; p. 917.
Hildebrandt, Charles T., assignor to The Dayton Hydraulic Machinery Company, Dayton, Ohio. Automatic starting device. No. 968,561; Aug. 30; Sp. p. 5805; Gaz. vol. 157; p. 1022.
Hildebrandt, Gotthold, Berlin, Germany. Cooling and liquefying gases. No. 962,836; June 28; Sp. p. 5477; Gaz. vol. 155; p. 957.
Hildebrandt, Gotthold, Berlin, Germany. Refrigerating or cooling apparatus. No. 963,555; July 5; Sp. p. 1184; Gaz. vol. 156; p. 182.
Hildebrandt, Gotthold, Spandau-Tiefwerder 29b, near Berlin, Germany. Heat-exchange piping. No. 979,762; Dec. 27; Sp. p. 5077; Gaz. vol. 161; p. 884.
Hildreth, Carl C., and H. F. Cook, Lake Mills, Iowa. Bowling apparatus. No. 976,738; Nov. 22; Sp. p. 5822; Gaz. vol. 160; p. 987.
Hildreth, Fred F. (See Arp, Hildreth, and Rumbley.)
Hildreth, George H., Seattle, Wash. Water-tight seam. No. 977,741; Dec. 6; Sp. p. 707; Gaz. vol. 161; p. 110.
Hildreth, Lawrence, Pine Grove, Ky. Match-safe. No. 958,122; May 17; Sp. p. 3652; Gaz. vol. 154; p. 616.
Hildreth, Percy S., New York, N. Y. Testing and marking metal structural work. No. 974,269; Nov. 1; Sp. p. 424; Gaz. vol. 160; p. 63.
Hileman, Albert, Hollidaysburg, assignor to Harrison Bros. & Co., Inc., Philadelphia, Pa. Making basic sulfate of lead. No. 969,474; Sept. 6; Sp. p. 680; Gaz. vol. 158; p. 108.
Hileman, Robert L., Jonesboro, Ill. Chair or stool. No. 966,745; Aug. 9; Sp. p. 1969; Gaz. vol. 157; p. 331.
Hilger, Ernest, Dusseldorf, Germany. Rotary grate for gas-producers. No. 967,637; Aug. 16; Sp. p. 3833; Gaz. vol. 157; p. 658.
Hilgers, Peter, Saarbrücken, Germany. Rotary bar-cutter. No. 976,653; Nov. 22; Sp. p. 5675; Gaz. vol. 160; p. 959.
Hilgert, Frank M., Spokane, Wash. Trousers-supporter. No. 966,093; Aug. 2; Sp. p. 531; Gaz. vol. 157; p. 86.
Hill, Albert E., *et al.* (See Stanway, William, assignor.)
Hill, Alfred, assignor to The Kendrick and Hill Manufacturing Company, Denver, Colo. Lawn-mower. No. 975,617; Nov. 15; Sp. p. 3422; Gaz. vol. 160; p. 581.
Hill, Almon D., East Wakefield, N. H. Folding bracket. No. 965,816; July 26; Sp. p. 6093; Gaz. vol. 156; p. 1033.
Hill, Arnold B., Chicago, Ill. Fuel. No. 958,920; May 24; Sp. p. 5473; Gaz. vol. 154; p. 917.
Hill, Arthur A., New York, N. Y. Time-controlled heating system for linotype-machines. No. 952,195; Mar. 15; Sp. p. 3484; Gaz. vol. 152; p. 628.
Hill, Arthur A., New York, N. Y. Bread-toaster. No. 969,475; Sept. 6; Sp. p. 681; Gaz. vol. 158; p. 108.
Hill, Benjamin B., assignor to The B. B. Hill Manufacturing Company, Philadelphia, Pa. Dating-stamp. No. 952,738; Mar. 22; Sp. p. 4647; Gaz. vol. 152; p. 842.
Hill, Benjamin H. (See Kellner, Eugene, assignor.)
Hill, Charles D., Clifton Springs, N. Y. Pressure-gage alarm. No. 960,920; June 7; Sp. p. 1357; Gaz. vol. 155; p. 228.
Hill, Charles W., Atlanta, Ga. Washing-machine. No. 953,087; Mar. 29; Sp. p. 5391; Gaz. vol. 152; p. 988.
Hill, Charles W., Birmingham, Ala. Apparatus for moving material. No. 973,784; Oct. 25; Sp. p. 4974; Gaz. vol. 159; p. 865.
Hill, Christian C., Chicago, Ill., assignor, by mesne assignments, to Precision Appliance Company. Pumping apparatus. No. 951,397; Mar. 8; Sp. p. 1909; Gaz. vol. 152; p. 332.
Hill, Claudius M. (See Oller and Hill.)
Hill Clutch Company, The. (See Smith, Harry J., assignor.)
Hill, David, Washington, N. C. Ventilating apparatus. No. 960,921; June 7; Sp. p. 1359; Gaz. vol. 155; p. 228.
Hill, David K., Leechburg, Pa. Wrench. No. 975,950; Nov. 15; Sp. p. 4109; Gaz. vol. 160; p. 694.
Hill, Ebenezer, Jr., Norwalk, Conn. Navigator's calculating instrument. No. 946,043; Jan. 11; Sp. p. 2294; Gaz. vol. 150; p. 381.
Hill, Edgar C., Columbus, Ohio. Jar-closure. No. 945,952; Jan. 11; Sp. p. 2112; Gaz. vol. 150; p. 351.
Hill, Edward F., Peekskill, N. Y. Combined stove and gas hot-plate. No. 962,402; June 21; Sp. p. 4527; Gaz. vol. 155; p. 781.
Hill, Forrest and W. E., Emporia, Kans. Wagon-loader and grader. No. 950,328; Feb. 22; Sp. p. 5396; Gaz. vol. 151; p. 947.
Hill, Frank E. (See Roof, Robert M., assignor.)
Hill, Fred E., Woburn, Mass. Mop. No. 946,965; Jan. 18; Sp. p. 4388; Gaz. vol. 150; p. 721.
Hill, Frederick B., and G. J. W. Westwood, London, England. Carbureting apparatus. No. 947,639; Jan. 25; Sp. p. 5877; Gaz. vol. 150; p. 975.
Hill, George E., New York, N. Y. Die for cutting threads. No. 971,748; Oct. 4; Sp. p. 504; Gaz. vol. 159; p. 87.
Hill, George H., Schenectady, N. Y., assignor to General Electric Company. Single-phase-motor control. No. 953,036; Mar. 29; Sp. p. 5270; Gaz. vol. 152; p. 971.
Hill, Halbert P., New York, N. Y. Producer-gas apparatus. No. 952,739; Mar. 22; Sp. p. 4648; Gaz. vol. 152; p. 842.
Hill, Henry, Portland, Oreg., assignor of one-half to J. Hill. Dust-collector. No. 959,936; May 31; Sp. p. 7604; Gaz. vol. 154; p. 1283.
Hill, Hermann, West Haven, Conn., assignor to Steel Fireproofing Company, Wheeling, W. Va. Machine for cutting sheet metal. No. 960,014; May 31; Sp. p. 7786; Gaz. vol. 154; p. 1310.
Hill, Hermann, Warwood, assignor to Steel Fireproofing Company, Wheeling, W. Va. Partition construction for fireproof buildings. No. 975,426; Nov. 15; Sp. p. 3011; Gaz. vol. 160; p. 514.
Hill, Hermon C., Benton Harbor, Mich. Attachment for testing or trial frames. No. 955,333; Apr. 19; Sp. p. 3538; Gaz. vol. 153; p. 626.
Hill, Homer H. (See Ashbaugh, Samuel T., assignor.)
Hill, Horace G., Youngs, Miss. Can-opener. No. 970,331; Sept. 13; Sp. p. 2538; Gaz. vol. 158; p. 428.
Hill, Horace G., Youngs, Miss. Flying-machine. No. 978,375; Dec. 13; Sp. p. 2069; Gaz. vol. 161; p. 361.
Hill, Horace H., Somerville, Mass. Manifolding device. No. 963,556; July 5; Sp. p. 1187; Gaz. vol. 156; p. 183.
Hill, James E., Twin Falls, Idaho. Automatic potato-piler. No. 968,562; Aug. 30; Sp. p. 5807; Gaz. vol. 157; p. 1023.
Hill, James H., Rochester, N. Y., assignor to Defiance Lantern & Stamping Co., Limited. Tubular lantern. No. 978,292; Dec. 13; Sp. p. 1902; Gaz. vol. 161; p. 333.
Hill, James H., assignor to Embury Manufacturing Company, Rochester, N. Y. Lantern. No. 978,293; Dec. 13; Sp. p. 1904; Gaz. vol. 161; p. 333.
Hill, Jasper N., Waterloo, assignor of one-third to A. W. Riffle and one-third to H. T. Stewart, Leon, W. Va. Sewing-awl. No. 953,618; Mar. 29; Sp. p. 6541; Gaz. vol. 152; p. 1168.
Hill, Jesse H. (See Bloom and Hill.)
Hill, John. (See Hill, Henry, assignor.)

Alphabetical list of patentees—Continued.

Hill, John C., Chicago, Ill. Sight-feed. No. 945,844; Jan. 11; Sp. p. 1878; Gaz. vol. 150; p. 311.
Hill, Joseph E., Menasha, Wis., assignor to Hill Pump Valve Company, Chicago, Ill. Valve. No. 955,158; Apr. 19; Sp. p. 3153; Gaz. vol. 153; p. 566.
Hill, Joseph P., Worcester, Mass. Clothes-drier. No. 962,147; June 21; Sp. p. 4012; Gaz. vol. 155; p. 696.
Hill Lock Company, The. (See Hill, Wilford A., assignor.)
Hill, Louis A., Washington, D. C. Drive mechanism. No. 963,557; July 5; Sp. p. 1189; Gaz. vol. 156; p. 183.
Hill, Nicholas S., Jr., and B. B. Hodgman, East Orange, N. J., assignors to National Water Main Cleaning Company. Apparatus for cleaning water-pipes. No. 971,042; Sept. 27; Sp. p. 4058; Gaz. vol. 158; p. 719.
Hill, Olof, Revelstoke, British Columbia, Canada. Wagon-brake. No. 963,558; July 5; Sp. p. 1190; Gaz. vol. 156; p. 184.
Hill, Palmer G. (See Evans and Hill.)
Hill Pump Valve Company. (See Hill, Joseph E., assignor.)
Hill, Rolla M., New York, N. Y. Ventilator. No. 951,609; Mar. 8; Sp. p. 2318; Gaz. vol. 152; p. 403.
Hill, Roselia P., Charles City, Iowa. Tension for warp-reels and hand-looms. No. 975,618; Nov. 15; Sp. p. 3424; Gaz. vol. 160; p. 581.
Hill, Rozier C., assignor of one-third to M. J. Fraas and one-third to J. Pepper, Washington, D. C. Sewer-trap. No. 945,534; Jan. 4; Sp. p. 1139; Gaz. vol. 150; p. 176.
Hill, V. P. (See Young, Lorenzo H., assignor.)
Hill, Vilentia J., Bloomer, Wis. Derrick. No. 973,115; Oct. 18; Sp. p. 3529; Gaz. vol. 159; p. 610.
Hill, Volney P. (See Young, Lorenzo H., assignor.)
Hill, Walter W., Seaborn, Tex. Magazine flour-sifter. No. 975,951; Nov. 15; Sp. p. 4111; Gaz. vol. 160; p. 694.
Hill, Wilford A., Waltham, assignor to The Hill Lock Company, Boston, Mass. Lock-operating device. No. 955,267; Apr. 19; Sp. p. 3391; Gaz. vol. 153; p. 604.
Hill, Wilford A., Waltham, assignor to The Hill Lock Company, Boston, Mass. Knob-lock. No. 965,519; July 26; Sp. p. 5454; Gaz. vol. 156; p. 930.
Hill, Wilford A., Waltham, assignor to The Hill Lock Company, Boston, Mass. Knob-lock. No. 965,520; July 26; Sp. p. 5464; Gaz. vol. 156; p. 931.
Hill, William E. (See Hill, Forrest and W. E.)
Hill, William H., assignor of one-half to A. Hirsch, Owensboro, Ky. Refrigerator. No. 979,950; Dec. 27; Sp. p. 5474; Gaz. vol. 161; p. 946.
Hill, William W., Pittsburg, Pa. Railway-tie. No. 951,118; Mar. 8; Sp. p. 1323; Gaz. vol. 152; p. 242.
Hill, William W., Sharpsburg, Ky. Inking-rollers. No. 979,300; Dec. 20; Sp. p. 4090; Gaz. vol. 161; p. 704.
Hillan, Ludwig, Wentworth, S. D. Securing device for wagon end-gates. No. 954,392; Apr. 5; Sp. p. 1469; Gaz. vol. 153; p. 245.
Hillard, Eliphalet, Meriden, Conn. Silo. No. 950,134; Feb. 22; Sp. p. 4997; Gaz. vol. 151; p. 879.
Hillegass, Harry M., Philadelphia, Pa. Valve. No. 952,523; Mar. 22; Sp. p. 4169; Gaz. vol. 152; p. 767.
Hilleke, August F., Ensley, Ala., assignor to Semet-Solvay Company, Syracuse, N. Y. Operating retort coke-ovens. No. 973,044; Oct. 18; Sp. p. 3387; Gaz. vol. 159; p. 586.
Hillenbrand, Charles W., Kansas City, Kans., assignor to N. C. Barnes, Kansas City, Mo. Safety device for cranking explosive-engines. No. 953,831; Apr. 5; Sp. p. 296; Gaz. vol. 153; p. 53.
Hillenbrand, Charles W., Kansas City, Kans., assignor, by mesne assignments, of one-half to J. H. Wittmann, Kansas City, Mo. Automatic turn-table. No. 964,514; July 19; Sp. p. 3221; Gaz. vol. 156; p. 557.
Hillenbrand, Herman A., Louisville, Ky. Tool-retainer. No. 950,329; Feb. 22; Sp. p. 5400; Gaz. vol. 151; p. 947.
Hiller, Joseph L., Mattapoisett, Mass. Crushing or pulverizing machine. No. 958,921; May 24; Sp. p. 5474; Gaz. vol. 154; p. 917.
Hiller, Joseph L., Mattapoisett, Mass. Crushing or pulverizing machine. No. 977,799; Dec. 6; Sp. p. 829; Gaz. vol. 161; p. 130.
Hiller, Louis C., Meriden, Conn. Gas-burner. No. 966,548; Aug. 9; Sp. p. 1542; Gaz. vol. 157; p. 263.
Hiller, Nicolai H., Carbondale, Pa. Evaporation and apparatus therefor. No. 955,965; Apr. 26; Sp. p. 4933; Gaz. vol. 153; p. 872.
Hiller, Nicolai H., Carbondale, Pa. Absorber. No. 970,050; Sept. 13; Sp. p. 1963; Gaz. vol. 158; p. 333.
Hiller, Nicolai H., Carbondale, Pa. Method of evaporation and apparatus therefor. No. 970,051; Sept. 13; Sp. p. 1965; Gaz. vol. 158; p. 334.
Hillhouse, John T., New York, N. Y. Electropneumatic tool. No. 979,164; Dec. 20; Sp. p. 3804; Gaz. vol. 161; p. 659.
Hilliard, Edward G. (See Shillin, Frank, assignor.)
Hilliard, Frederick E., assignor to American Gem & Pearl Company, New York, N. Y. Electric switch. No. 945,535; Jan. 4; Sp. p. 1141; Gaz. vol. 150; p. 176.
Hilliard, John D., Albany, N. Y. Electrical switch. No. 949,033; Feb. 15; Sp. p. 2651; Gaz. vol. 151; p. 472.
Hilliard, John D., Albany, N. Y. Electrical switch. No. 976,654; Nov. 22; Sp. p. 5677; Gaz. vol. 160; p. 960.
Hilliard, Richard I., Atlantic City, N. J. Valve. No. 950,533; Mar. 1; Sp. p. 151; Gaz. vol. 152; p. 25.
Hilliker, John A., Evanston, Ill. Fruit-case. No. 973,429; Oct. 18; Sp. p. 4225; Gaz. vol. 159; p. 720.
Hillis, David, Des Moines, Iowa. Airship. No. 971,379; Sept. 27; Sp. p. 4741; Gaz. vol. 158; p. 828.
Hillman, Andrew, Home Valley, Wash. Dough-raising device. No. 967,193; Aug. 16; Sp. p. 2937; Gaz. vol. 157; p. 507.
Hillman, Charles, New Castle, Pa. Tin and sheet bar heater. No. 950,669; Mar. 1; Sp. p. 441; Gaz. vol. 152; p. 72.
Hillman, Henry G. (See Lumley and Hillman.)
Hillmer, Theodor C. J., Bucharest, Roumania. Apparatus for weighing liquids in storage-tanks. No. 967,378; Aug. 16; Sp. p. 3296; Gaz. vol. 157; p. 571.
Hillmon, Thomas B., Glasco, Kans. Roofing-bracket. No. 955,159; Apr. 19; Sp. p. 3155; Gaz. vol. 153; p. 567.
Hillsdale Screen Company, The. (See Sprague, Frank, assignor.)
Hillstrom, Jacob E., Michigan City, Ind. Scraper-sharpener. No. 956,350; Apr. 26; Sp. p. 5775; Gaz. vol. 153; p. 1005.
Hilo Gum Company. (See Linde and Franke, assignors.)
Hilpert, Meier G., Pittsburg, Pa. Tool-retainer for air, electric, or mechanically-driven implements. No. 959,530; May 31; Sp. p. 6722; Gaz. vol. 154; p. 1144.
Hilprecht, Robert, Lansing, Mich. Gas-producing furnace. No. 979,951; Dec. 27; Sp. p. 5475; Gaz. vol. 161; p. 946.
Hiltner, Martin E., Deadwood, S. D. Vacuum-filter. No. 957,558; May 10; Sp. p. 2264; Gaz. vol. 154; p. 392.
Hilton, John E. (See Coe, John B., assignor.)
Hilton, John W., Bellevue, Ky. Belting. No. 967,379; Aug. 16; Sp. p. 3298; Gaz. vol. 157; p. 571.
Hilton Manufacturing Company. (See Hilton, Roland C., assignor.)
Hilton, Roland C., Quincy, assignor to Hilton Manufacturing Company, Boston, Mass. Cranking device for internal-combustion engines. No. 947,494; Jan. 25; Sp. p. 5576; Gaz. vol. 150; p. 926.
Hilty, Charles R., Chicago, Ill. Rotary compound steam-engine. No. 957,508; May 10; Sp. p. 2161; Gaz. vol. 154; p. 374.
Hiltz, George S., Brooklyn, assignor to The Stock Quotation Telegraph Company, New York, N. Y. Type-carriage-propelling mechanism for printing-telegraph receivers. No. 962,431; June 28; Sp. p. 4622; Gaz. vol. 155; p. 816.
Himebaugh, Leon N., Jamestown, N. Y. Domestic press. No. 968,848; Aug. 30; Sp. p. 6424; Gaz. vol. 157; p. 1119.
Himmel, Solomon, Baltimore, Md. Extensible garment-support. No. 962,837; June 28; Sp. p. 5479; Gaz. vol. 155; p. 958.
Himmelwright, Abraham L. A., *et al.* (See Krause, Richard, assignor.)
Himottu, Albert, Worcester, assignor of one-half to K. A. Hannula, Gardner, Mass. Weighing-scoop. No. 949,766; Feb. 22; Sp. p. 4151; Gaz. vol. 151; p. 751.
Hincher, Otis R., Seattle, Wash., and A. J. Morrison, Minneapolis, Minn. Paper-box machine. No. 964,645; July 19; Sp. p. 3521; Gaz. vol. 156; p. 602.
Hinchliffe, George H., Boston, Mass., assignor to Goodell Company, Antrim, N. H. Apple-parer. No. 959,137; May 24; Sp. p. 5907; Gaz. vol. 154; p. 989.
Hinckley, Henrietta R., Waterbury, Conn. Dress-shield. No. 947,698; Jan. 25; Sp. p. 5976; Gaz. vol. 150; p. 995.
Hinckley, Howard, Camden, S. C. Cup or hole-rim for golf-links. No. 947,819; Feb. 1; Sp. p. 69; Gaz. vol. 151; p. 15.
Hindes, Stetson G., St. Francis, Cal. Protecting submerged supporting-columns. No. 947,237; Jan. 25; Sp. p. 4917; Gaz. vol. 150; p. 838.
Hindes, Stetson G., San Francisco, Cal. Supporting-column for wharves, piers, &c. No. 953,088; Mar. 29; Sp. p. 5393; Gaz. vol. 152; p. 989.
Hindman, George L., Worthington, Pa. Rail-tie fastener. No. 949,034; Feb. 15; Sp. p. 2653; Gaz. vol. 151; p. 473.
Hindman, James T. (See McCarty and Hindman.)
Hine, George T. (See Barker, Arthur, assignor.)
Hine, Henry C., assignor of one-half to G. W. Traut, New Britain, Conn. Garment-supporter. No. 955,837; Apr. 19; Sp. p. 4631; Gaz. vol. 153; p. 799.
Hine, Henry C., assignor of one-half to G. W. Traut, New Britain, Conn. Garment-supporter. No. 959,937; May 31; Sp. p. 7606; Gaz. vol. 154; p. 1283.
Hine, William C., Cleveland, Ohio, assignor to the Conneaut Company. Shade and reflector support for lighting-fixtures. No. 957,956; May 17; Sp. p. 3125; Gaz. vol. 154; p. 556.
Hiner, Charles N., Staunton, Va. Window-shade hanger. No. 961,230; June 14; Sp. p. 2006; Gaz. vol. 155; p. 362.
Hiner, Frank E., Rockford, Ill., assignor of one-half to E. W. Bunker, Spooner, Wis. Pencil-sharpener. No. 953,998; Apr. 5; Sp. p. 627; Gaz. vol. 153; p. 112.
Hines, Alfred, Wasco, Oreg. Draft-equalizing device. No. 958,811; May 24; Sp. p. 5208; Gaz. vol. 154; p. 878.
Hines, George E., New York, assignor of one-half to W. T. Daley, Brooklyn, N. Y. Combined telephone and telegraph system. No. 954,734; Apr. 12; Sp. p. 2249; Gaz. vol. 153; p. 390.

Alphabetical list of patentees—Continued.

Hines, George E., New York, assignor of one-half to W. T. Daley, Brooklyn, N. Y. Telegraph system. No. 977,008; Nov. 29; Sp. p. 6487; Gaz. vol. 160; p. 1106.

Hines, Jefferson F., Strawberry Point, and G. Feller, Osborne, Iowa. Beater for threshing-machines. No. 947,157; Jan. 18; Sp. p. 4745; Gaz. vol. 150; p. 782.

Hines, John E., Allen, S. C. Standard-holder. No. 953,268; Mar. 29; Sp. p. 5789; Gaz. vol. 152; p. 1047.

Hines, John F., Pittsburg, Pa. Telephone-receiver holder. No. 973,198; Oct. 18; Sp. p. 3750; Gaz. vol. 159; p. 640.

Hines, Thomas E., Galesburg, Ill. Skid-shoe placer. No. 955,400; Apr. 19; Sp. p. 3692; Gaz. vol. 153; p. 649.

Hines, Thomas J., Detroit, Mich. Boring-tool. No. 963,559; July 5; Sp. p. 1193; Gaz. vol. 156; p. 184.

Hinkel, Peter, Youngstown, Ohio. Safety appliance for elevators. No. 979,491; Dec. 27; Sp. p. 4471; Gaz. vol. 161; p. 790.

Hinkhouse, Charles H., Omaha, Nebr. Feed-mixer. No. 976,363; Nov. 22; Sp. p. 5053; Gaz. vol. 160; p. 858.

Hinkle, Paris R., Monterey, Cal. Nut-lock. No. 969,693; Sept. 6; Sp. p. 1142; Gaz. vol. 158; p. 184.

Hinman, Bertrand C., London, England. Means for measuring or analyzing gaseous mixtures. No. 970,923; Sept. 20; Sp. p. 3811; Gaz. vol. 158; p. 650.

Hinman, Curtis, Akron, Ohio. Potato-planter. No. 958,922; May 24; Sp. p. 5475; Gaz. vol. 154; p. 918.

Hinman, George, San Francisco, Cal. Window-seat. No. 951,642; Mar. 8; Sp. p. 2392; Gaz. vol. 152; p. 414.

Hinrichsen, Christian, Kiel, Germany. Guard for dental handpieces. No. 949,273; Feb. 15; Sp. p. 3129; Gaz. vol. 151; p. 552.

Hinsdale, Nehemiah C., assignor to Hinsdale Pneumatic Cushion and Mattress Company, Marion, Ind. Pneumatic mattress. No. 945,234; Jan. 4; Sp. p. 470; Gaz. vol. 150; p. 78.

Hinsdale, Nehemiah C., assignor to Hinsdale Pneumatic Cushion and Mattress Company, Marion, Ind. Air mattress, seat, and the like. No. 961,231; June 14; Sp. p. 2010; Gaz. vol. 155; p. 363.

Hinsdale Pneumatic Cushion and Mattress Company. (See Hinsdale, Nehemiah C., assignor.)

Hinsdale, Winfield E., New York, N. Y. Urinal-stall. No. 974,145; Nov. 1; Sp. p. 76; Gaz. vol. 160; p. 16.

Hinsdale, Winfield E., New York, N. Y. Basin waste and overflow. No. 974,146; Nov. 1; Sp. p. 78; Gaz. vol. 160; p. 16.

Hinshaw, George L., and H. A. Wade, Parsons, Kans. Traction-engine. No. 958,123; May 17; Sp. p. 3653; Gaz. vol. 154; p. 616.

Hinsky, Anthony P., Brooklyn, N. Y. Insulating-conduit for electric wires or conductors. No. 966,917; Aug. 9; Sp. p. 2356; Gaz. vol. 157; p. 386.

Hintermann, Hermann, Basel, Switzerland. Closing device for cans or the like. No. 959,012; May 24; Sp. p. 5638; Gaz. vol. 154; p. 947.

Hinton, Henry L., New York, N. Y. Fireproof floor construction. No. 970,500; Sept. 20; Sp. p. 2888; Gaz. vol. 158; p. 505.

Hinton, Henry L., New York, N. Y. Skewback for hollow-tile arches. No. 971,749; Oct. 4; Sp. p. 505; Gaz. vol. 159; p. 88.

Hinton, Henry L., New York, N. Y. Fireproof building construction. No. 971,750; Oct. 4; Sp. p. 506; Gaz. vol. 159; p. 88.

Hinton, Moore C., Hinton, W. Va. Car-brake. No. 952,990; Mar. 22; Sp. p. 5161; Gaz. vol. 152; p. 927.

Hiorth, Karl A. F., Christiania, Norway. Induction-furnace. No. 954,804; Apr. 12; Sp. p. 2429; Gaz. vol. 153; p. 415.

Hipolito, David E., Los Angeles, Cal. Reversible window. No. 958,962; May 24; Sp. p. 5541; Gaz. vol. 154; p. 931.

Hipwood, George, New York, N. Y. Combined buffer and fender. No. 967,380; Aug. 16; Sp. p. 3299; Gaz. vol. 157; p. 572.

Hipwood, George, New York, N. Y. Car-fender. No. 967,917; Aug. 23; Sp. p. 4405; Gaz. vol. 157; p. 776.

Hipwood, George, Lakeport, N. H., assignor to American Fender Company. Fender. No. 946,966; Jan. 18; Sp. p. 4389; Gaz. vol. 150; p. 721.

Hirner, Emil A., Allentown, Pa. Checkered plated fabric and knitting the same. No. 951,565; Mar. 8; Sp. p. 2242; Gaz. vol. 152; p. 389.

Hirsch, Abraham. (See Hill, William H., assignor.)

Hirsch, Friedrich. (See Friedrich and Hirsch.)

Hirsch, Henry, New York, N. Y., assignor of one-half to L. Gelarie. Ticket-holder. No. 961,075; June 7; Sp. p. 1694; Gaz. vol. 155; p. 281.

Hirsch, Hiram H., *et al.* (See Kaiser, Charles A., assignor.)

Hirsch, Montefore L., and M. H. Eichberg, Baltimore, Md. Machine for making paper bags. No. 946,967; Jan. 18; Sp. p. 4392; Gaz. vol. 150; p. 722.

Hirsch, Ralph, *et al.* (See Goodman, Nathan J., assignor.)

Hirschfeld, Leo, New York, N. Y. Rolling-machine. No. 966,206; Aug. 2; Sp. p. 785; Gaz. vol. 157; p. 124.

Hirschwitz, Aaron, and H. Mauderer, New Orleans, La. Toy bale. No. 960,922; June 7; Sp. p. 1361; Gaz. vol. 155; p. 229.

Hirsh, Fred, New York, N. Y. Fastener. No. 958,249; May 17; Sp. p. 3918; Gaz. vol. 154; p. 659.

Hirshberg, Leonard K., Baltimore, Md. Separable fastener. No. 973,430; Oct. 18; Sp. p. 4227; Gaz. vol. 159; p. 720.

Hirshheimer, Albert. (See Davis, Frank E., assignor.)

Hirshheimer, Albert. (See Dickinson, Clinton W., assignor.)

Hirst, Harry R., assignor to C. S. Knowles, New Bedford, Mass. Electric switch. No. 966,207; Aug. 2; Sp. p. 790; Gaz. vol. 157; p. 124.

Hirst, John C., Reynoldsville, Pa. Mining-machine. No. 957,957; May 17; Sp. p. 3127; Gaz. vol. 154; p. 556.

Hirst, John C., Reynoldsville, Pa. Truck for mining-machines. No. 960,923; June 7; Sp. p. 1362; Gaz. vol. 155; p. 229.

Hirt, Fritz E., Milwaukee, Wis., assignor to Allis-Chalmers Company. Commutator construction. No. 953,832; Apr. 5; Sp. p. 298; Gaz. vol. 153; p. 53.

Hirt, Hans, Grätz, Germany. Cash-box. No. 964,021; July 12; Sp. p. 2197; Gaz. vol. 156; p. 361.

Hirt, John M. (See Westcott and Hirt.)

Hirth, Carl A., Cannstatt, Germany. Leather-skiving machine. No. 958,124; May 17; Sp. p. 3655; Gaz. vol. 154; p. 616.

Hirth, Carl A., Cannstatt, Stuttgart, Germany. Ball-grinding machine. No. 967,918; Aug. 23; Sp. p. 4408; Gaz. vol. 157; p. 776.

Hirth, Frederick H., Grand Rapids, Mich. Pneumatic cleaner. No. 962,569; June 28; Sp. p. 4940; Gaz. vol. 155; p. 865.

Hirtzel, George L., Jr., *et al.* (See Knobbs, Charles H., assignor.)

Hiscock, Charles O., Detroit, Mich. Paper-holder. No. 977,800; Dec. 6; Sp. p. 831; Gaz. vol. 161; p. 130.

Hiscock, Emory C., Chicago, Ill. Process of veneering. No. 974,147; Nov. 1; Sp. p. 80; Gaz. vol. 160; p. 16.

Hiscock, Emory C., assignor to W. W. Kimball Company, Chicago, Ill. Player-piano. No. 974,884; Nov. 8; Sp. p. 1819; Gaz. vol. 160; p. 303.

Hiscock, Emory C., assignor to W. W. Kimball Company, Chicago, Ill. Player-piano. No. 974,885; Nov. 8; Sp. p. 1823; Gaz. vol. 160; p. 303.

Hist, John, Barberton, Ohio. Potato-planter. No. 977,742; Dec. 6; Sp. p. 709; Gaz. vol. 161; p. 111.

Histed, Thaddeus C., Shawnee, Okla. Ore-mill. No. 949,982; Feb. 22; Sp. p. 4680; Gaz. vol. 151; p. 828.

Historical Calendar Advertising Company. (See Hallam, Guy M., assignor.)

Hitchcock, Edward H., Glenwood, Mich. Rack or cabinet. No. 954,805; Apr. 12; Sp. p. 2430; Gaz. vol. 153; p. 415.

Hitchcock, Harlyn, Atlanta, Ga. Check-valve. No. 975,243; Nov. 8; Sp. p. 2644; Gaz. vol. 160; p. 426.

Hitchcock, Jennie, Friendly, W. Va., assignor of one-half to O. G. Suter, New Matamoras, Ohio. Telephone-receiver holder. No. 968,354; Aug. 23; Sp. p. 5366; Gaz. vol. 157; p. 925.

Hitchcock, Lucien R. (See Morden and Hitchcock.)

Hitchcock, Martin L., assignor of one-half to C. R. Summerfield, Fayetteville, W. Va. Combination-lock. No. 970,924; Sept. 20; Sp. p. 3813; Gaz. vol. 158; p. 650.

Hitchcock, Romyn, New York, N. Y. Keyboard apparatus for punching telegraphic transmitting-tapes. No. 975,427; Nov. 15; Sp. p. 3013; Gaz. vol. 160; p. 514.

Hitchings, Vernon D., and E. W. Face, Norfolk, Va. Ticket-case. No. 961,610; June 14; Sp. p. 2832; Gaz. vol. 155; p. 490.

Hitchinson, Joshua B., Scottdale, Pa. Distributer. No. 964,971; July 19; Sp. p. 4289; Gaz. vol. 156; p. 715.

Hite, Charles E., Burlington, N. J. Primary battery. No. 968,154; Aug. 23; Sp. p. 4951; Gaz. vol. 157; p. 855.

Hites, Sadie C. (See Hites, Thomas L., assignor.)

Hites, Thomas L., Canton, assignor, by mesne assignments, to S. C. Hites, Shreve, Ohio. Horseshoe. No. 946,131; Jan. 11; Sp. p. 2461; Gaz. vol. 150; p. 411.

Hitesman, George. (See Burch, Charles J., assignor.)

Hitesman, William. (See Sartor and Hitesman.)

Hitt, Allen, Gustine, Tex. Line-holder. No. 965,458; July 26; Sp. p. 5316; Gaz. vol. 156; p. 908.

Hitt, Allen, Gustine, Tex. Combined buggy-top and rein and robe holder. No. 965,459; July 26; Sp. p. 5317; Gaz. vol. 156; p. 908.

Hitt, Marcellus M., assignor to D. L. Kauffman, Luray, Va. Apparatus for use in exercising and developing and applying static electricity. No. 970,332; Sept. 13; Sp. p. 2540; Gaz. vol. 158; p. 428.

Hitt, Thomas G., Seattle, Wash. Burrowing-pest destroyer. No. 951,119; Mar. 8; Sp. p. 1325; Gaz. vol. 152; p. 243.

Hitt, Thomas G., Seattle, Wash. Rocket. No. 957,210; May 10; Sp. p. 1536; Gaz. vol. 154; p. 272.

Hitz, Jesse L., Chicago, Ill. Brush. No. 973,865; Oct. 25; Sp. p. 5140; Gaz. vol. 159; p. 893.

Hitzert, Jacob, Onaway, Mich. Clevis. No. 961,232; June 14; Sp. p. 2011; Gaz. vol. 155; p. 363.

Hix, Ira A. (See Wood, Henry A., assignor.)

Hix, Samuel C., Memphis, Tenn. Burner. No. 956,094; Apr. 26; Sp. p. 5217; Gaz. vol. 153; p. 917.

Hixon, Edward, and P. D. Murrin, Chicago, Ill. Belt-shifting mechanism. No. 976,655; Nov. 22; Sp. p. 5681; Gaz. vol. 160; p. 960.

Hixon, Hiram W., Philadelphia, Pa. Electric furnace. No. 957,058; May 3; Sp. p. 1200; Gaz. vol. 154; p. 191.

Alphabetical list of patentees—Continued.

Hixon, Hiram W., Philadelphia, Pa. Electric furnace. No. 957,337; May 10; Sp. p. 1822; Gaz. vol. 154; p. 317.
Hixson, Charles T., and A. L. Tarrant, Ringwood, Okla. Automobile wheel-hub. No. 976,802; Nov. 22; Sp. p. 5975; Gaz. vol. 160; p. 1009.
Hixson, Sinda M., Fairfax, Mo. Hen's nest. No. 953,785; Apr. 5; Sp. p. 201; Gaz. vol. 153; p. 37.
Hoag, Andrew H., New York, N. Y. Lamp-shade. No. 953,950; Apr. 5; Sp. p. 524; Gaz. vol. 153; p. 95.
Hoagland, John B., assignor of one-half to T. B. Aufricht, St. Louis, Mo. Brake-beam. No. 974,270; Nov. 1; Sp. p. 426; Gaz. vol. 160; p. 63.
Hoagland, John B., assignor of one-half to T. B. Aufricht, St. Louis, Mo. Screen. No. 974,380; Nov. 1; Sp. p. 683; Gaz. vol. 160; p. 103.
Hoar, Richard A., assignor of one-third to F. N. Braley and one-third to H. C. Whitaker, Barre, Vt. Drinking-cup. No. 963,894; July 12; Sp. p. 1936; Gaz. vol. 156; p. 318.
Hoard, Addison P., Alcester, S. D. Neck-yoke fastener. No. 945,783; Jan. 11; Sp. p. 1723; Gaz. vol. 150; p. 289.
Hoard, E. (See Evans, Taylor, assignor.)
Hoard, John H., Purmela, Tex. Harrow-tooth holder. No. 975,132; Nov. 8; Sp. p. 2393; Gaz. vol. 160; p. 388.
Hobart, Adam J., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Coin-controlled actuating mechanism for autopneumatic pianos. No. 958,125; May 17; Sp. p. 3657; Gaz. vol. 154; p. 617.
Hobart Electric Manufacturing Company, The. (See Johnston, Herbert L., assignor.)
Hobart, Franklin G., Beloit, Wis., assignor to Fairbanks, Morse and Company, Chicago, Ill. Water-sealed producer-valve. No. 967,919; Aug. 23; Sp. p. 4410; Gaz. vol. 157; p. 776.
Hobb, Thomas W., and W. A. Gwinn, Middlesboro, Ky. Mainspring-winder. No. 973,045; Oct. 18; Sp. p. 3388. Gaz. vol. 159; p. 587.
Hobbs, Clarence W. (See Carlson, Walter C., assignor.)
Hobbs, Clarence W., Worcester, Mass. Piecing-machine for paper-box blanks. No. 966,834; Aug. 9; Sp. p. 2178; Gaz. vol. 157; p. 358.
Hobbs, Frank B. (See Fouts and Hobbs.)
Hoberg, Alfred, Essen, Germany. Device for arranging type. No. 968,766; Aug. 30; Sp. p. 6262; Gaz. vol. 157; p. 1094.
Hoberg, Frank H., Green Bay, Wis. Embossing attachment. No. 950,482; Mar. 1; Sp. p. 40; Gaz. vol. 152; p. 8.
Hobson & Company. (See Hobson, Joseph W., assignor.)
Hobson, Joseph W., Bayonne, N. J., assignor to Hobson & Company. Baling-press. No. 962,432; June 28; Sp. p. 4625; Gaz. vol. 155; p. 817.
Hobson, Valentine H., Richmond, Ky. Flush-box. No. 947,663; Jan. 25; Sp. p. 5922; Gaz. vol. 150; p. 984.
Hobson, Valentine H., Richmond, Ky. Cuspidor. No. 952,247; Mar. 15; Sp. p. 3594; Gaz. vol. 152; p. 647.
Hobson, Valentine H., Richmond, Ky. Furnace. No. 952,431; Mar. 15; Sp. p. 3956; Gaz. vol. 152; p. 708.
Hoch, Adam, Providence, R. I., assignor to Adding and Subtracting Machine Company. Calculating-machine. No. 961,961; June 21; Sp. p. 3587; Gaz. vol. 155; p. 632.
Hochgürtel, Peter, Koblenz, Germany. Mechanism for counting and wrapping coins. No. 973,658; Oct. 25; Sp. p. 4727; Gaz. vol. 159; p. 821.
Hochriter, Theodore. (See Kurtz and Hochriter.)
Hochstein & Weinberg. (See Hartmann, Paul, assignor.)
Hock, Edward C., Pittsburg, Pa. Gas-burner. No. 945,536; Jan. 4; Sp. p. 1142; Gaz. vol. 150; p. 176.
Hockett, Clarkson P., Kouts, Ind. Mold for forming walls or buildings of cement or concrete. No. 951,120; Mar. 8; Sp. p. 1326; Gaz. vol. 152; p. 243.
Hocking Valley Manufacturing Company, The. (See Grommë, John J., assignor.)
Hockman, George A., Chester, Pa. Carbureter. No. 975,038; Nov. 8; Sp. p. 2185; Gaz. vol. 160; p. 356.
Hodder, Albert E., London, England. Automatic water-elevator. No. 968,661; Aug. 30; Sp. p. 6024; Gaz. vol. 157; p. 1058.
Hodgdon, Edgar S., *et al.* (See Rollins, Frank O., assignor.)
Hodge, Charles E., and S. P. Andersen, Auckland, New Zealand. Milking-machine teat-cup. No. 948,608; Feb. 8; Sp. p. 1752; Gaz. vol. 151; p. 303.
Hodge, Howard D., Bridgeport, Conn., assignor to Nobel's Explosives Company, Limited, Glasgow, Scotland. Cartridge-shell-feeding machine. No. 971,999; Oct. 4; Sp. p. 1081; Gaz. vol. 159; p. 181.
Hodge, Howard D., Waltham Abbey, England, assignor to Nobel's Explosives Company, Limited, Glasgow, Scotland. Polishing-machine. No. 973,350; Oct. 18; Sp. p. 4048; Gaz. vol. 159; p. 693.
Hodge, Madison F. (See Schlagle and Hodge.)
Hodge, Robert O., Buffalo, N. Y. Boiler-flue cleaner. No. 972,374; Oct. 11; Sp. p. 1857; Gaz. vol. 159; p. 326.
Hodge, William B. (See Cramer and Hodge.)
Hodges, Charles B., assignor to H. K. Porter Company, Pittsburg, Pa. Operating compound compressed-air engines. No. 953,334; Mar. 29; Sp. p. 5920; Gaz. vol. 152; p. 1069.
Hodges, Charles B., assignor to H. K. Porter Company, Pittsburg, Pa. Operating compound compressed-air engines. No. 953,335; Mar. 29; Sp. p. 5923; Gaz. vol. 152; p. 1069.
Hodges, Charles B., assignor to H. K. Porter Company, Pittsburg, Pa. Compressed-air engine. No. 953,336; Mar. 29; Sp. p. 5926; Gaz. vol. 152; p. 1070.
Hodges, Charles B., assignor to H. K. Porter Company, Pittsburg, Pa. Compound compressed-air engine. No. 979,165; Dec. 20; Sp. p. 3808; Gaz. vol. 161; p. 659.
Hodges, Frank W. (See Wigginton and Hodges.)
Hodges, Samuel F., and W. H. Lee, Nocona, Tex. Apparatus for generating acetylene gas. No. 972,858; Oct. 18; Sp. p. 2937; Gaz. vol. 159; p. 521.
Hodges, Vera C., Los Angeles, Cal. Single-trigger mechanism. No. 945,459; Jan. 4; Sp. p. 962; Gaz. vol. 150; p. 152.
Hodges, William S., assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Locomotive trailer-truck. No. 970,333; Sept. 13; Sp. p. 2541; Gaz. vol. 158; p. 428.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 945,391; Jan. 4; Sp. p. 838; Gaz. vol. 150; p. 130.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Steam-turbine-cylinder lining. No. 945,392; Jan. 4; Sp. p. 841; Gaz. vol. 150; p. 130.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Steam-turbine-cylinder lining. No. 950,330; Feb. 22; Sp. p. 5403; Gaz. vol. 151; p. 948.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. End-thrust apparatus for fluid-pressure turbines. No. 953,530; Mar. 29; Sp. p. 6361; Gaz. vol. 152; p. 1139.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Multistage turbine. No. 957,338; May 10; Sp. p. 1824; Gaz. vol. 154; p. 318.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Packing. No. 969,869; Sept. 13; Sp. p. 1574; Gaz. vol. 158; p. 271.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Automatic cut-off valve. No. 978,294; Dec. 13; Sp. p. 1905; Gaz. vol. 161; p. 333.
Hodgkinson, James, Pendleton, Manchester, England. Evaporating brine apparatus. No. 979,301; Dec. 20; Sp. p. 4092; Gaz. vol. 161; p. 704.
Hodgkinson, Percy W., assignor of one-half to J. Dupont, Rochester, N. Y. Engine-starting device. No. 969,162; Sept. 6; Sp. p. 20; Gaz. vol. 158; p. 7.
Hodgkinson, Percy W., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Emergency-exit-door lock. No. 974,886; Nov. 8; Sp. p. 1826; Gaz. vol. 160; p. 304.
Hodgkinson, Percy W., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Locking mechanism for cupboards. No. 976,261; Nov. 22; Sp. p. 4831; Gaz. vol. 160; p. 825.
Hodgkinson, Percy W., assignor to C. D. Camp, Rochester, N. Y. Reversible propeller for boats. No. 975,039; Nov. 8; Sp. p. 2186; Gaz. vol. 160; p. 356.
Hodgkinson, William R., Blackheath, England. Treatment of iron or steel. No. 946,360; Jan. 11; Sp. p. 2962; Gaz. vol. 150; p. 492.
Hodgman, Burt B. (See Hill and Hodgman.)
Hodgman, Ellen, Alexandria, Minn. Washboard. No. 946,697; Jan. 18; Sp. p. 3761; Gaz. vol. 150; p. 629.
Hodgson, Edward S., Jr., East St. Louis, Ill. Dental nozzle. No. 949,480; Feb. 15; Sp. p. 3567; Gaz. vol. 151; p. 622.
Hodgson, Howard H., Toronto, Ontario, Canada. Wheel-tire. No. 946,044; Jan. 11; Sp. p. 2296; Gaz. vol. 150; p. 382.
Hodgson, Howard H., Toronto, Ontario, Canada. Tire. No. 977,628; Dec. 6; Sp. p. 475; Gaz. vol. 161; p. 72.
Hodgson, John G., Maywood, Ill. Means for actuating flush-valves and other devices. No. 945,166; Jan. 4; Sp. p. 328; Gaz. vol. 150; p. 55.
Hodgson, John G., Maywood, Ill. Seat-operated mechanism for actuating flushing devices. No. 963,440; July 5; Sp. p. 959; Gaz. vol. 156; p. 143.
Hodgson Limited, George. (See Nichols, David, assignor.)
Hodson, Walter D., Janesville, Wis. Combined hinge and receptacle. No. 975,690; Nov. 15; Sp. p. 3593; Gaz. vol. 160; p. 605.
Hoe and Co., R. (See Roesen, Oscar, assignor.)
Hoe, Edward P. (See Hoe, Walter R. and E. P.)
Hoe, Robert. (See Sheldon, Edward P., assignor.)
Hoe, Walter R. and E. P., Avonmore, Pa. Non-refillable bottle. No. 967,771; Aug. 16; Sp. p. 4103; Gaz. vol. 157; p. 703.
Hoefer, Albert. (See Hart and Hoefer.)
Hoefer, Chester A., assignor to Hoefer Manufacturing Company, Freeport, Ill. Valve-inserting machine. No. 955,334; Apr. 19; Sp. p. 3539; Gaz. vol. 153; p. 626.
Hoefer, Emil A., Freeport, Ill., assignor to The Borden Company, Warren, Ohio. Machine for threading pipes. No. 948,394; Feb. 8; Sp. p. 1295; Gaz. vol. 151; p. 232.

Hoefer, Georg, and G. A. Strohhaecker, Milwaukee, Wis. Ham and sausage tying machine. No. 966,746; Aug. 9; Sp. p. 1970; Gaz. vol. 157; p. 331.
Hoefer Manufacturing Company. (See Hoefer, Chester A., assignor.)
Hoeffel, Edward A., Napoleon, Ohio. Stanchion. No. 963,149; July 5; Sp. p. 317; Gaz. vol. 156; p. 44.
Hoeft, Adolph R., Chicago, Ill. Combined bottle-cap remover and stopper. No. 959,220; May 24; Sp. p. 6075; Gaz. vol. 154; p. 1016.
Hoehne, Ferdinand F., Kaukauna, Wis. Friction-clutch. No. 979,952; Dec. 27; Sp. p. 5478; Gaz. vol. 161; p. 947.
Hoehne, Gustav, San Francisco, Cal. Window. No. 949,574; Feb. 15; Sp. p. 3763; Gaz. vol. 151; p. 654.
Hoehne, Richard, Chicago, Ill. Apparatus for feeding kilns. No. 951,911; Mar. 15; Sp. p. 2963; Gaz. vol. 152; p. 537.
Hoell, William H., Grand Cane, La. Paper-roll holder. No. 947,630; Jan. 25; Sp. p. 5857; Gaz. vol. 150; p. 972.
Hoelscher, Adolph G., Norwood, assignor to H. H. Kimball, Boston, Mass. Machine for making head-bands for books. No. 965,901; Aug. 2; Sp. p. 117; Gaz. vol. 157; p. 20.
Hoeltzel, George A. (See Randall and Hoeltzel.)
Hoelzer, Hermann, Osterholz-Scharmbeck, near Bremen, Germany. Tooth-powder distributer. No. 970,224; Sept. 13; Sp. p. 2328; Gaz. vol. 158; p. 392.
Hoenk, Frederick H., Evansville, Ind. Tension-indicator for sewing-machines. No. 971,842; Oct. 4; Sp. p. 696; Gaz. vol. 159; p. 122.
Hoepfner, Karl, Chicago, Ill. Mechanical movement. No. 965,460; July 26; Sp. p. 5318; Gaz. vol. 156; p. 909.
Hoepner, George, Chicago, Ill. Automatic weighing-machine. No. 956,853; May 3; Sp. p. 772; Gaz. vol. 154; p. 122.
Hoerlein, Heinrich. (See Dressel, Kothe, and Hoerlein.)
Hoermann, Rudolph B., Watertown, Wis. Ventilating stop and lock for windows. No. 974,791; Nov. 8; Sp. p. 1613; Gaz. vol. 160; p. 271.
Hoerr, Louis A., St. Louis, Mo. Angle-cock holder for railway-cars. No. 965,902; Aug. 2; Sp. p. 121; Gaz. vol. 157; p. 20.
Hoerr, Louis A., St. Louis, Mo. Striking-block and angle-cock holder. No. 969,623; Sept. 6; Sp. p. 1009; Gaz. vol. 158; p. 161.
Hoerr, Louis A., St. Louis, Mo. Brake-rod jaw. No. 977,629; Dec. 6; Sp. p. 476; Gaz. vol. 161; p. 72.
Hoes, Albertes M., St. Paul, Nebr. Door-fastener. No. 954,806; Apr. 12; Sp. p. 2432; Gaz. vol. 153; p. 415.
Hoes, Albertes M., St. Paul, Nebr. Door-latch. No. 964,255; July 12; Sp. p. 2666; Gaz. vol. 156; p. 439.
Hoes, Albertes M., St. Paul, Nebr. Double-door lock. No. 966,208; Aug. 2; Sp. p. 791; Gaz. vol. 157; p. 125.
Hoes, Albertes M., St. Paul, Nebr. Double-door bolt. No. 969,624; Sept. 6; Sp. p. 1010; Gaz. vol. 158; p. 161.
Hoey, John J., New York, N. Y. Inkstand. No. 952,116; Mar. 15; Sp. p. 3348; Gaz. vol. 152; p. 603.
Hoey, John J., New York, N. Y. Inkstand. No. 952,329; Mar. 15; Sp. p. 3766; Gaz. vol. 152; p. 674.
Hoey, John J., Providence, R. I. Tentering-machine. No. 974,271; Nov. 1; Sp. p. 427; Gaz. vol. 160; p. 63.
Hof, Adolf, Witten, and A. Pieper, Schmallenberg, Germany. Producing a molded mass. No. 975,691; Nov. 15; Sp. p. 3594; Gaz. vol. 160; p. 606.
Hofacker, Albert W., Bottineau, N. D. Gasolene-feed. No. 948,279; Feb. 1; Sp. p. 1018; Gaz. vol. 151; p. 167.
Hofacker, Fred, Portland, Me. Sleeve-board. No 956,705; May 3; Sp. p. 445; Gaz. vol. 154; p. 71.
Hofer, Louis, Pittsburg, Pa. Churn. No. 963,560; July 5; Sp. p. 1194; Gaz. vol. 156; p. 184.
Hofer, Louis, Pittsburg, Pa. Milk-can lock. No. 972,000; Oct. 4; Sp. p. 1083; Gaz. vol. 159; p. 182.
Hoff Arrow Hoop Company, The. (See Hoff, Charles, assignor.)
Hoff, Carlton L., assignor to Standard Chain Company, York, Pa. Electric chain-welding machine. No. 978,160; Dec. 13; Sp. p. 1609; Gaz. vol. 161; p. 286.
Hoff, Carlton L., York, and M. O. Rehfuss, Philadelphia, assignors to Standard Chain Company, York, Pa. Chain-link-forming machine. No. 976,568; Nov. 22; Sp. p. 5504; Gaz. vol. 160; p. 930.
Hoff, Charles, assignor to The Hoff Arrow Hoop Company, Cincinnati, Ohio. Barrel-hoop. No. 951,912; Mar. 15; Sp. p. 2967; Gaz. vol. 152; p. 537.
Hoff, Charles, assignor of one-half to F. Hofmann, Cincinnati, Ohio. Gas-burner. No. 972,697; Oct. 11; Sp. p. 2577; Gaz. vol. 159; p. 439.
Hoff, Edward J., Berkeley, Cal. Seat for chairs and the like. No. 974,769; Nov. 1; Sp. p. 1563; Gaz. vol. 160; p. 241.
Hoff, Heinrich E., Koblenz, Germany. Continuous-rail joint. No. 952,904; Mar. 22; Sp. p. 4999; Gaz. vol. 152; p. 898.
Hoff, Merritt D., and A. J. McCabe, Minneapolis, Minn. Furnace. No. 969,279; Sept. 6; Sp. p. 270; Gaz. vol. 158; p. 44.
Hoff, Olaf, New York, N. Y. Apparatus for subaqueous pile-driving. No. 972,192; Oct. 11; Sp. p. 1485; Gaz. vol. 159; p. 264.
Hoffer, George L., Laurel, Miss. Car-brass mold. No. 956,638; May 3; Sp. p. 281; Gaz. vol. 154; p. 47.
Hoffhine, John, and N. F. Harriman, Omaha, Nebr. Still. No. 969,625; Sept. 6; Sp. p. 1012; Gaz. vol. 158; p. 162.
Hoffine, Fred G., Kansas City, Mo. Ironing-table. No. 978,885; Dec. 20; Sp. p. 3145; Gaz. vol. 161; p. 559.
Höffler, Karl, Neuerburg, Germany. Opening and closing apparatus for gas-pipes. No. 950,393; Feb. 22; Sp. p. 5514; Gaz. vol. 151; p. 960.
Hoffman, Adolph, Columbus, Ohio. Shoe-polishing stand. No. 955,069; Apr. 12; Sp. p. 2973; Gaz. vol. 153; p. 504.
Hoffman, Adolph, Columbus, Ohio. Table attachment for furniture. No. 956,095; Apr. 26; Sp. p. 5218; Gaz. vol. 153; p. 918.
Hoffman, Adolph, Columbus, Ohio. Adjustable drawing-table. No. 956,096; Apr. 26; Sp. p. 5220; Gaz. vol. 153; p. 918.
Hoffman, Adolph, Columbus, Ohio. Adjustable support for drawing-boards. No. 979,070; Dec. 20; Sp. p. 3560; Gaz. vol. 161; p. 623.
Hoffman, Charles A., Minneapolis, Minn. Eyeglass-mounting. No. 960,642; June 7; Sp. p. 826; Gaz. vol. 155; p. 135.
Hoffman, Charles A., Minneapolis, Minn. Eyeglass-mounting. No. 960,924; June 7; Sp. p. 1363; Gaz. vol. 155; p. 229.
Hoffman, Charles S. (See Leuckert, William, assignor.)
Hoffman-Corr Manufacturing Company. (See McBride, William J., assignor.)
Hoffman, David S. (See Wolf, Lesser, assignor.)
Hoffman, Edward D. (See Brockman and Hoffman.)
Hoffman, Frank E., Hamilton, Ohio. Toaster. No. 976,364; Nov. 22; Sp. p. 5055; Gaz. vol. 160; p. 858.
Hoffman, Frank L., Denison, Iowa. Sanitary receptacle. No. 979,005; Dec. 20; Sp. p. 3428; Gaz. vol. 161; p. 602.
Hoffman, Fred, San Quentin, assignor to National Cash Protector Company, San Francisco, Cal. Check-identifying machine. No. 971,197; Sept. 27; Sp. p. 4386; Gaz. vol. 158; p. 770.
Hoffman, Fred P., Buffalo, N. Y. Roll-pinning machine. No. 954,186; Apr. 5; Sp. p. 1039; Gaz. vol. 153; p. 176.
Hoffman, George. (See Conway and Hoffman.)
Hoffman, George, Buffalo, N. Y. Float-valve. No. 966,442; Aug. 9; Sp. p. 1260; Gaz. vol. 157; p. 226.
Hoffman, George, Buffalo, N. Y. Automatic drainer for cellars, &c. No. 973,351; Oct. 18; Sp. p. 4050; Gaz. vol. 159; p. 693.
Hoffman, George D., assignor to Norwall Manufacturing Company, Chicago, Ill. Air-vent valve. No. 967,381; Aug. 16; Sp. p. 3303; Gaz. vol. 157; p. 572.
Hoffman, Gustav, St. Paul, Minn. Press for making brick, tile, and building-blocks. No. 972,375; Oct. 11; Sp. p. 1861; Gaz. vol. 159; p. 326.
Hoffman Hardware Company. (See Merritt, James M., assignor.)
Hoffman, Henry, assignor to The Norwalk Lock Co., South Norwalk, Conn. Latch. No. 947,488; Jan. 25; Sp. p. 5562; Gaz. vol. 150; p. 924.
Hoffman, Jacob K., assignor to Hale-Kilburn Metal Company, Philadelphia Pa. Wall construction. No. 973,659; Oct. 25; Sp. p. 4731; Gaz. vol. 159; p. 821.
Hoffman, Jesse D., assignor of one-half to N. L. Burrow, Duke, Okla. Protective device. No. 961,962; June 21; Sp. p. 3594; Gaz. vol. 155; p. 632.
Hoffman, John J., assignor to P. H. Murphy, St. Louis, Mo. Outside metal car-roof. No. 946,729; Jan. 18; Sp. p. 3830; Gaz. vol. 150; p. 639.
Hoffman, John J., New Kensington, assignor to P. H. Murphy, Pittsburg, Pa. Brake-beam. No. 976,461; Nov. 22; Sp. p. 5264; Gaz. vol. 160; p. 894.
Hoffman, John J., New Kensington, assignor to P. H. Murphy, Pittsburg, Pa. Hanger for brake-beams. No. 976,462; Nov. 22; Sp. p. 5266; Gaz. vol. 160; p. 894.
Hoffman, Joseph. (See Wright and Hoffman.)
Hoffman, Lewis J., Monroeville, Ind. Washstand. No. 969,694; Sept. 6; Sp. p. 1143; Gaz. vol. 158; p. 185.
Hoffman, Louis E., Philadelphia, Pa. Differential driving-gear. (Reissue.) No. 13,068; Jan. 4; Sp. p. 1589; Gaz. vol. 150; p. 245.
Hoffman, Maurice A., Portage la Prairie, Manitoba, Canada. Skirt and trousers hanger. No. 960,549; June 7; Sp. p. 639; Gaz. vol. 155; p. 104.
Hoffman, Peter L. (See Graffort and Hoffman.)
Hoffman, William M., Buffalo, N. Y., assignor to F. B. Allen, Toronto, Canada. Rotary engine. No. 971,043; Sept. 27; Sp. p. 4062; Gaz. vol. 158; p. 719.
Hoffman, William W., La Fayette, Ind. Base-burning stove. No. 960,175; May 31; Sp. p. 8110; Gaz. vol. 154; p. 1364.
Hoffman, William W., assignor to E. Kirstein Sons & Co., Rochester, N. Y. Eyeglass connection. No. 973,660; Oct. 25; Sp. p. 4734; Gaz. vol. 159; p. 822.
Hoffmann, Albert, New York, N. Y. Flower-holder. No. 946,361; Jan. 11; Sp. p. 2963; Gaz. vol. 150; p. 492.
Hoffmann, Albert H., Fitchburg, Mass. Hacksaw. No. 973,431; Oct. 18; Sp. p. 4228; Gaz. vol. 159; p. 720.
Hoffmann, Berthold, Griesheim, assignor to Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Autogenous welding, cutting, or soldering metals. No. 972,079; Oct. 4; Sp. p. 1231; Gaz. vol. 159; p. 209.
Hoffmann, Edson A., Frankfort, Ky. Reducing distillery-slop to dry feed. No. 965,521; July 26; Sp. p. 5469; Gaz. vol. 156; p. 931.

Alphabetical list of patentees—Continued.

Hoffmann, Frederick W., Weehawken, N. J. Mold. No. 945,537; Jan. 4; Sp. p. 1144; Gaz. vol. 150; p. 177.
Hoffmann, Gustav, St. Paul, Minn. Mixing-machine. No. 956,351; Apr. 26; Sp. p. 5776; Gaz. vol. 153; p. 1005.
Hoffmann, Julius V., Jasper, Ind. Means for preventing boiler explosions. No. 948,881; Feb. 8; Sp. p. 2318; Gaz. vol. 151; p. 394.
Hoffmann-La-Roche Chemical Works, The. (See Barell and Elger, assignors.)
Hoffmann-La Roche Chemical Works. (See Barell and Girard, assignors.)
Hoffmann, Louis, Vienna, Austria-Hungary. Rolling-balls grinding-mill. No. 975,864; Nov. 15; Sp. p. 3940; Gaz. vol. 160; p. 663.
Hoffmann Manufacturing Company Limited, The. (See Weeks, George, assignor.)
Hoffmann, Marie W., Vienna, Austria-Hungary, assignor to P. Newman, Providence, R. I. Corset-clasp. No. 946,362; Jan. 11; Sp. p. 2964; Gaz. vol. 150; p. 492.
Hoffmann, Otto C. (See Appleton and Hoffmann.)
Hoffmann, Otto C., assignor to Chicago Fuse Wire & Manufacturing Company, Buffalo, N. Y. Indicator for inclosed fuses. No. 953,204; Mar. 29; Sp. p. 5649; Gaz. vol. 152; p. 1026.
Hofmann, Adam J., Newark, N. J. Inverted incandescent gas-lamp. No. 979,855; Dec. 27; Sp. p. 5288; Gaz. vol. 161; p. 915.
Hofmann, Alfred, Gottenborg, Sweden. Yarn-carrier for warp-printing machines. No. 964,022; July 12; Sp. p. 2199; Gaz. vol. 156; p. 361.
Hofmann, Alfred, Gottenborg, Sweden. Prismatic drum for warp-printing machines. No. 964,023; July 12; Sp. p. 2200; Gaz. vol. 156; p. 361.
Hofmann, Frederick. (See Hoff, Charles, assignor.)
Hofmann, Fritz, and C. Coutelle, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Making tetramethylendiamin. No. 965,903; Aug. 2; Sp. p. 123; Gaz. vol. 157; p. 21.
Hofmann, Georg, Kaufbeuren, Germany. Hose-cleaning apparatus. No. 961,858; June 21; Sp. p. 3373; Gaz. vol. 155; p. 597.
Hofmann, George, Valley Stream, N. Y. Safety attachment for hat-pins, &c. No. 954,287; Apr. 5; Sp. p. 1257; Gaz. vol. 153; p. 208.
Hofmann, Johann, Covington, Ky. Washing-machine. No. 954,187; Apr. 5; Sp. p. 1043; Gaz. vol. 153; p. 176.
Hofmann, Walter H., Richmond Hill, N. Y. Molding apparatus. No. 951,782; Mar. 8; Sp. p. 2680; Gaz. vol. 152; p. 462.
Hofmann, Walter H., Union Hill, N. J., assignor to Richey, Browne and Donald, Maspeth, N. Y. Molding-machine. No. 970,334; Sept. 13; Sp. p. 2543; Gaz. vol. 158; p. 429.
Hofstetter, Charles A., Crescentville, Pa. Loose-leaf ledger. No. 945,845; Jan. 11; Sp. p. 1879; Gaz. vol. 150; p. 312.
Hofstetter, Jacob, Evanston, Ill. Thill-coupling. No. 974,792; Nov. 8; Sp. p. 1615; Gaz. vol. 160; p. 272.
Hofwolt, Charles L., Salem, S. D. Draft-evener attachment. No. 950,046; Feb. 22; Sp. p. 4836; Gaz. vol. 151; p. 850.
Hogan, Charles W., Detroit, Mich., and S. M. McCormick, Chatham, Ontario, Canada. Skirt-gage. No. 979,492; Dec. 27; Sp. p. 4474; Gaz. vol. 161; p. 790.
Hogan, Daniel, Hoboken, N. J., assignor to Meinecke & Co., New York, N. Y. Bed-pan. No. 967,638; Aug. 16; Sp. p. 3835; Gaz. vol. 157; p. 658.
Hogan, Daniel, Hoboken, and C. W. Meinecke, Jersey City, N. J., assignors to Whitall Tatum Company, New York, N. Y. Adjustable bed. No. 964,105; July 12; Sp. p. 2378; Gaz. vol. 156; p. 390.
Hogan, John L., Jr., New York, N. Y. Detector for wireless communication. No. 950,781; Mar. 1; Sp. p. 692; Gaz. vol. 152; p. 110.
Hogan, William B., Albany, N. Y. Ice-cream spoon. No. 968,945; Aug. 30; Sp. p. 6621; Gaz. vol. 157; p. 1153.
Hogeland, Jason S., Holland, Pa. Potato-digger. No. 958,250; May 17; Sp. p. 3918; Gaz. vol. 154; p. 659.
Hogge, Richard A., assignor to F. M. McCracken, Louisiana, Mo. Center-punch. No. 956,765; May 3; Sp. p. 571; Gaz. vol. 154; p. 91.
Hogland, Frank G. (See Faust and Hogland.)
Hogle, James C., and A. Meyer, St. Louis, Mo. Rupture appliance. No. 948,627; Feb. 8; Sp. p. 1800; Gaz. vol. 151; p. 309.
Hogle, Milton W., and W. W. Slick, assignors to P. E. Donner, Pittsburg, Pa. Plate-rolling apparatus. No. 947,428; Jan. 25; Sp. p. 5396; Gaz. vol. 150; p. 904.
Hogle, Milton W., and W. W. Slick, assignors to P. E. Donner, Pittsburg, Pa. Rolling metal sheets and plates. No. 947,429; Jan. 25; Sp. p. 5399; Gaz. vol. 150; p. 904.
Hoglund, Gustav E., assignor to W. N. Selig, Chicago, Ill. Combined synchronizing and telephone system. No. 960,925; June 7; Sp. p. 1365; Gaz. vol. 155; p. 230.
Hoglund, Gustav E., assignor to W. N. Selig, Chicago, Ill. Apparatus for reproducing pictures or characters. No. 970,820; Sept. 20; Sp. p. 3619; Gaz. vol. 158; p. 618.
Hoglund, Gustav E., assignor to Selig Polyscope Company, Chicago, Ill. Apparatus for preparing moving-picture films. No. 971,889; Oct. 4; Sp. p. 812; Gaz. vol. 159; p. 140.
Hoglund, Gustav E., assignor to Selig Polyscope Company, Chicago, Ill. Producing colored films for animated pictures. No. 971,890; Oct. 4; Sp. p. 814; Gaz. vol. 159; p. 140.
Hoglund, Gustave E., assignor to Selig Polyscope Company, Chicago, Ill. Moving-picture machine. No. 971,891; Oct. 4; Sp. p. 815; Gaz. vol. 159; p. 141.
Hoglund, John F., assignor to C. E. Jackson, Rockford, Ill. Washing-machine. No. 964,778; July 19; Sp. p. 3905; Gaz. vol. 156; p. 649.
Hoglung, Gustav E., assignor to Selig Polyscope Company, Chicago, Ill. Film-drying apparatus. No. 953,663; Mar. 29; Sp. p. 6633; Gaz. vol. 152; p. 1183.
Hogston, John H., Ladysmith, Wis. Fire-escape. No. 974,381; Nov. 1; Sp. p. 683; Gaz. vol. 160; p. 103.
Hohenstein, Charles H. von, San Antonio, Tex., assignor, by mesne assignments, to The International Spring Motor Company. Spring-motor. No. 954,602; Apr. 12; Sp. p. 1935; Gaz. vol. 153; p. 343.
Hohl, Lawrence E., and C. B. Franke, Fort MacKenzie, Wyo. Tent. No. 950,394; Feb. 22; Sp. p. 5518; Gaz. vol. 151; p. 967.
Hohlfeld, Herman L., Philadelphia, Pa. Adjustable collapsible folding hammock-couch. No. 947,545; Jan. 25; Sp. p. 5677; Gaz. vol. 150; p. 943.
Hohlfeld, Herman L., Philadelphia, Pa. Settee-hammock. No. 947,546; Jan. 25; Sp. p. 5681; Gaz. vol. 150; p. 943.
Hohman, George R., Rochester, N. Y. Faucet. No. 967,772; Aug. 16; Sp. p. 4105; Gaz. vol. 157; p. 703.
Hohmann, Richard K., San Diego, Cal. Feeding attachment for sewing-machines. No. 957,211; May 10; Sp. p. 1538; Gaz. vol. 154; p. 272.
Hohmann, Richard K., San Diego, assignor of one-fourth to E. J. Bernhard, Los Angeles, Cal. Take-up for sewing-machines. No. 977,630; Dec. 6; Sp. p. 477; Gaz. vol. 161; p. 73.
Hohulin, Samuel, Goodfield, Ill. Fence. No. 975,428; Nov. 15; Sp. p. 3022; Gaz. vol. 160; p. 515.
Hoiby, Enoch, Minneapolis, Minn. Bob-sled. No. 978,376; Dec. 13; Sp. p. 2071; Gaz. vol. 161; p. 361.
Höiland, Johannes, and K. J. Halleland, Stavanger, Norway, assignors to Rosenstein Brothers, Inc., New York, N. Y. Seaming can-heads to can-bodies. No. 976,739; Nov. 22; Sp. p. 5826; Gaz. vol. 160; p. 987.
Hoisington, Benjamin R., Minneapolis, Minn. Traction gang-plow. No. 951,121; Mar. 8; Sp. p. 1328; Gaz. vol. 152; p. 243.
Hojohn, Charles, Amsterdam, N. Y. Bob-sleigh. No. 951,187; Mar. 8; Sp. p. 1461; Gaz. vol. 152; p. 265.
Hokanson, Karl J., Minneapolis, Minn. Rotary engine. No. 949,431; Feb. 15; Sp. p. 3478; Gaz. vol. 151; p. 607.
Hoke, Clarence J., *et al.* (See Hoke, Henry E., assignor.)
Hoke, Harry A., Altoona, Pa. Locomotive ash-pan. No. 946,440; Jan. 11; Sp. p. 3227; Gaz. vol. 150; p. 519.
Hoke, Harry A., Altoona, Pa. Locomotive ash-pan. No. 949,017; Feb. 15; Sp. p. 2618; Gaz. vol. 151; p. 468.
Hoke, Harry A., Altoona, Pa. Ash-pan. No. 954,100; Apr. 5; Sp. p. 853; Gaz. vol. 153; p. 147.
Hoke, Henry E., assignor of one-fourth to C. J. Hoke and one-fourth to R. H. Hoke, Hanover, Pa. Bank-note cutter. No. 959,342; May 24; Sp. p. 6324; Gaz. vol. 154; p. 1057.
Hoke, Jacob F., Jr. (See Talbert, Shaw, Holcomb, and Hoke.)
Hoke, Ralph H., *et al.* (See Hoke, Henry E., assignor.)
Holaday, Adolph M., Walthena, Kans. Bath-cabinet. No. 964,779; July 19; Sp. p. 3906; Gaz. vol. 156; p. 649.
Holbourns, John G., and W. Fletcher, London, England. Magazine of typographical composing-machines. No. 951,245; Mar. 8; Sp. p. 1571; Gaz. vol. 152; p. 282.
Holbourns, John G., and H. A. Longhurst, assignors to Linotype and Machinery Limited, London, England. Typographical composing and distributing machine. No. 951,948; Mar. 15; Sp. p. 3026; Gaz. vol. 152; p. 548.
Holbrock, Edward F. (See Cox, Joseph N., assignor.)
Holbrook, Frank, assignor to M. V. Bresnahan, Lynn, Mass. Bed-lasting machine. No. 957,883; May 17; Sp. p. 2932; Gaz. vol. 154; p. 531.
Holbrook, Frank, assignor to M. V. Bresnahan, Lynn, Mass. Bed-lasting machine. (Reissue.) No. 13,147; Aug. 23; Sp. p. 5707; Gaz. vol. 157; p. 984.
Holbrook, Frank B., Rome, Ga. Device for holding keys in fire-alarm boxes. No. 979,856; Dec. 27; Sp. p. 5294; Gaz. vol. 161; p. 916.
Holbrook, George C. (See Rose and Holbrook.)
Holbrook, Harry R., Attleboro, Mass. Bracelet. No. 949,323; Feb. 15; Sp. p. 3228; Gaz. vol. 151; p. 569.
Holbrook, Lucius R., assignor of one-half to P. Dunne, Fort Riley, Kans. Oven. No. 970,501; Sept. 20; Sp. p. 2890; Gaz. vol. 158; p. 505.
Holbrook, Milo F., Longview, Tex. Combination-level. No. 955,799; Apr. 19; Sp. p. 4542; Gaz. vol. 153; p. 785.
Holbrook, Otto P., Union township, Shelby county, Ind. Tile-drain protector. No. 955,593; Apr. 19; Sp. p. 4090; Gaz. vol. 153; p. 714.
Holcomb Co., The. (See Tolman, Cowles, assignor.)
Holcomb, Ernest A., Hartford, Conn. Tire-repairing device. No. 976,262; Nov. 22; Sp. p. 4833; Gaz. vol. 160; p. 825.

Alphabetical list of patentees—Continued.

Holcomb, Frank L., Kingston, N. Y. Locomotive blower and air-pump-exhaust pipe. No. 956,706; May 3; Sp. p. 446; Gaz. vol. 154; p. 71.

Holcomb, James I. (See Talbert, Shaw, Holcomb, and Hoke.)

Holcomb, Lemuel H., Knoxville, Tenn., assignor to Crompton & Knowles Loom Works. Loom harness stop-motion. No. 966,443; Aug. 9; Sp. p. 1263; Gaz. vol. 157; p. 227.

Holdaway, Benjiman F., Sandford, Ind. Acetylene-gas machine. No. 945,235; Jan. 4; Sp. p. 472; Gaz. vol. 150; p. 78.

Holden, Charles M., and H. G. Hendershot, San Francisco, Cal. Spark-plug holder. No. 960,091; May 31; Sp. p. 7955; Gaz. vol. 154; p. 1336.

Holden, Charles R., Chicago, Ill. Railway road-bed construction. No. 953,089; Mar. 29; Sp. p. 5395; Gaz. vol. 152; p. 989.

Holden, Charles R., Chicago, Ill. Reinforced-concrete tie. No. 955,645; Apr. 19; Sp. p. 4226; Gaz. vol. 153; p. 732.

Holden, Charles R., Chicago, Ill. Railway-road-bed construction. No. 961,233; June 14; Sp. p. 2012; Gaz. vol. 155; p. 363.

Holden, Charles R., Chicago, Ill. Railway-tie. No. 964,515; July 19; Sp. p. 3224; Gaz. vol. 156; p. 557.

Holden, Charles R., Chicago, Ill. Railway-road-bed construction. No. 964,516; July 19; Sp. p. 3227; Gaz. vol. 156; p. 557.

Holden, Charles R., Chicago, Ill. Railway-road-bed construction. No. 964,517; July 19; Sp. p. 3232; Gaz. vol. 156; p. 558.

Holden, Charles R., Chicago, Ill. Railway-road-bed construction. No. 968,155; Aug. 23; Sp. p. 4953; Gaz. vol. 157; p. 855.

Holden, Charles R., Chicago, Ill. Railway-road-bed construction. No. 968,156; Aug. 23; Sp. p. 4957; Gaz. vol. 157; p. 856.

Holden, Delos. (See Dyer and Holden.)

Holden, Delos, Upper Montclair, N. J., assignor to J. H. Dale, New York, N. Y. Cluster-socket. No. 973,199; Oct. 18; Sp. p. 3751; Gaz. vol. 159; p. 640.

Holden, Edward H., New York, N. Y. Line-clinometer. No. 957,059; May 3; Sp. p. 1202; Gaz. vol. 154; p. 191.

Holden, Hiram, Manchester, N. H. Wire-holder. No. 961,611; June 14; Sp. p. 2833; Gaz. vol. 155; p. 490.

Holden, Thomas J., Muncie, Ind. Die-holder for glass-making machinery. No. 969,280; Sept. 6; Sp. p. 272; Gaz. vol. 158; p. 44.

Holden, Walter A., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Buckle. No. 958,397; May 17; Sp. p. 4365; Gaz. vol. 154; p. 713.

Holden, Walter A., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Buckle. No. 959,138; May 24; Sp. p. 5909; Gaz. vol. 154; p. 989.

Holden, Walter A., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Buckle. No. 960,325; June 7; Sp. p. 170; Gaz. vol. 155; p. 31.

Holden, Walter A., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Buckle. No. 970,374; Sept. 13; Sp. p. 2624; Gaz. vol. 158; p. 442.

Holden, William M., Barre, Vt. Throttle-handle for pneumatic tools. No. 970,225; Sept. 13; Sp. p. 2329; Gaz. vol. 158; p. 392.

Holderman, Marion F., Washington, D. C. Universally-movable tracker-board. No. 957,676; May 10; Sp. p. 2503; Gaz. vol. 154; p. 433.

Holderman, Marion F., Washington, D. C. Tracker-board for piano-players. No. 957,774; May 10; Sp. p. 2700; Gaz. vol. 154; p. 464.

Holdgate, Edward, Buffalo, assignor of one-half to E. A. Cole, Fredonia, N. Y. Waistband-adjuster for garments. No. 966,747; Aug. 9; Sp. p. 1990; Gaz. vol. 157; p. 331.

Holding, Robert, assignor of one-half to J. Thompson, Chicago, Ill. Expanded-metal machine. No. 952,524; Mar. 22; Sp. p. 4171; Gaz. vol. 152; p. 767.

Holdorf, Robert and W., La Grange, Ill. Ladder attachment. No. 972,001; Oct. 4; Sp. p. 1084; Gaz. vol. 159; p. 182.

Holdorf, William. (See Holdorf, Robert and W.)

Holdridge, Ransom A., Virginia, Minn. Combined ladder and scaffold. No. 965,712; July 26; Sp. p. 5875; Gaz. vol. 156; p. 998.

Holdridge, Ransom A., Virginia, Minn. Ladder-bracket. No. 971,677; Oct. 4; Sp. p. 353; Gaz. vol. 159; p. 62.

Hole, H. B. (See Hole, John B. W., assignor.)

Hole, John B. W., assignor of one-half to H. B. Hole, Versailles, Ohio. Barn-door fastener. No. 966,444; Aug. 9; Sp. p. 1265; Gaz. vol. 157; p. 227.

Holehouse, Robert L., Milwaukee, Wis. Oil-cup. No. 976,365; Nov. 22; Sp. p. 5056; Gaz. vol. 160; p. 859.

Holeman, Isaac A. (See Stevenson, James W., assignor.)

Holforty, Howard, Omaha, Nebr. Sewing-machine attachment. No. 956,965; May 3; Sp. p. 1019; Gaz. vol. 154; p. 160.

Holl, Adolph W., Cleveland, Ohio. Clay and sand screen. No. 977,009; Nov. 29; Sp. p. 6489; Gaz. vol. 160; p. 1107.

Holland, Curtis, Butte, assignor to C. W. Blair, Missoula, Mont. Type-writing machine. No. 970,052; Sept. 13; Sp. p. 1970; Gaz. vol. 158; p. 334.

Holland, Elias C. (See Shoemaker and Holland.)

Holland, Elias C., Benton Harbor, Mich., assignor to Metal Sectional Furniture Company, Portland, Me. Binder and leaves. No. 949,959; Feb. 22; Sp. p. 4585; Gaz. vol. 151; p. 819.

Holland, Gussie A., and W. F. Barrett, Woodlawn, Ala. Car-coupling. No. 960,550; June 7; Sp. p. 641; Gaz. vol. 155; p. 104.

Holland, Mary C. (See Holland, Timothy, assignor.)

Holland, Newman H., assignor to Western Electric Company, Chicago, Ill. Private branch intercommunicating telephone system. No. 967,773; Aug. 16; Sp. p. 4107; Gaz. vol. 157; p. 704.

Holland, Russell I. (See Whelchel, James F., assignor.)

Holland, Thomas J. (See Smith, Anton C., assignor.)

Holland, Timothy, Chicago, Ill. Sash-weight. No. 962,858; June 28; Sp. p. 5481; Gaz. vol. 155; p. 958.

Holland, Timothy, Chicago, Ill., assignor to M. C. Holland, New York, N. Y. Combination-furnace. No. 963,024; June 28; Sp. p. 5827; Gaz. vol. 155; p. 1020.

Holland, Timothy L., and W. H. Curtin, Schenectady, N. Y. Hat-fastening. No. 964,780; July 19; Sp. p. 3910; Gaz. vol. 156; p. 650.

Holland, William H., South Bend, Ind. Speed-changing mechanism. No. 965,461; July 26; Sp. p. 5320; Gaz. vol. 156; p. 909.

Hollander, Irvin H., *et al.* (See Odenwald, John J., assignor.)

Hollander, Theron W., Fairfield, Iowa. Corner-shelf. No. 975,619; Nov. 15; Sp. p. 3426; Gaz. vol. 160; p. 581.

Hollands, Stephen. (See Bremer, Thiry, and Hollands.)

Hollandsworth, George, Knox, Ind. Portable reel. No. 968,476; Aug. 23; Sp. p. 5602; Gaz. vol. 157; p. 967.

Hollar, William H., W. Rees, and H. F. Balou, Philadelphia, Pa.; said Rees and Balou assignors to said Hollar. Vault. No. 977,307; Nov. 29; Sp. p. 7107; Gaz. vol. 160; p. 1209.

Holle, Alexander A., Olst, Netherlands. Steam-turbine. No. 967,639; Aug. 16; Sp. p. 3836; Gaz. vol. 157; p. 659.

Hollenback, Joseph, Boise, Idaho. Animal-trap. No. 968,946; Aug. 30; Sp. p. 6622; Gaz. vol. 157; p. 1153.

Hollenbeck, Jacob P., assignor of one-half to J. W. Fondren, Frederick, Okla. Liquid-fuel burner. No. 970,335; Sept. 13; Sp. p. 2544; Gaz. vol. 158; p. 429.

Hollenberger, John A., Hagerstown, Md. Magazine-pencil. No. 959,531; May 31; Sp. p. 6727; Gaz. vol. 154; p. 1145.

Hollendung, Wilhelm, München-Gladbach, Germany. Spinning-top. No. 968,157; Aug. 23; Sp. p. 4963; Gaz. vol. 157; p. 856.

Hollerith, Herman, Garrett Park, Md., assignor to The Tabulating Machine Company. Registering apparatus for tabulating systems. No. 945,236; Jan. 4; Sp. p. 473; Gaz. vol. 150; p. 79.

Hollerith, Herman, Garrett Park, Md., assignor to The Tabulating Machine Company. Registering apparatus. No. 974,272; Nov. 1; Sp. p. 431; Gaz. vol. 160; p. 64.

Hollett, Charles A., Indianapolis, Ind. Apparatus for administering anesthetics. No. 955,121; Apr. 12; Sp. p. 3066; Gaz. vol. 153; p. 520.

Holley Brothers Co. (See Holley, George M., assignor.)

Holley, George M., assignor to Holley Brothers Co., Detroit, Mich. Carbureter. No. 945,167; Jan. 4; Sp. p. 330; Gaz. vol. 150; p. 56.

Holley, Julian R., assignor to The Bristol Brass Company, Bristol, Conn. Percolator. No. 964,518; July 19; Sp. p. 3236; Gaz. vol. 156; p. 558.

Holliday, William C., Columbus, Ohio. Apparatus for forcing fluids from wells. No. 971,612; Oct. 4; Sp. p. 224; Gaz. vol. 159; p. 40.

Hollinger, Andrew, Canton, Ohio. Railway-frog. No. 971,129; Sept. 27; Sp. p. 4227; Gaz. vol. 158; p. 746.

Hollingshead, Arthur G. (See Sargent and Hollingshead.)

Hollingsworth, Elwood, Harrison, Idaho. Sled-brake. No. 974,382; Nov. 1; Sp. p. 685; Gaz. vol. 160; p. 103.

Hollingsworth, Frank I., Denver, Colo. Combined gas and electric-light fixture. No. 969,059; Aug. 30; Sp. p. 6852; Gaz. vol. 157; p. 1192.

Hollingsworth, James H., Mount Pleasant, Tex. Washing-machine. No. 945,095; Jan. 4; Sp. p. 187; Gaz. vol. 150; p. 32.

Hollingsworth, Joseph C. (See Ward and Hollingsworth.)

Hollingsworth, Merrill W., Santa Barbara, Cal. Golf-club. No. 976,176; Nov. 22; Sp. p. 4610; Gaz. vol. 160; p. 793.

Hollingsworth, Samuel, Plainfield, N. J., assignor to American Sales Book Company, Elmira, N. Y. Numbering-machine. No. 961,444; June 14; Sp. p. 2474; Gaz. vol. 155; p. 435.

Hollingsworth, Samuel, Plainfield, N. J., assignor to American Sales Book Company, Elmira, N. Y. Inking apparatus for printing-machines. No. 966,094; Aug. 2; Sp. p. 532; Gaz. vol. 157; p. 86.

Hollingsworth, Samuel, Plainfield, N. J., assignor to American Sales Book Company, Elmira, N. Y. Folding-machine. No. 966,095; Aug. 2; Sp. p. 534; Gaz. vol. 157; p. 86.

Hollingsworth, Samuel, Plainfield, N. J., assignor to American Sales Book Company, Elmira, N. Y. Perforating-machine. No. 966,408; Aug. 2; Sp. p. 1164; Gaz. vol. 157; p. 188.

Alphabetical list of patentees—Continued.

Hollingsworth, William, assignor of one-half to E. Hanzsche, Baltimore, Md. Ticket-vending machine. No. 954,393; Apr. 5; Sp. p. 1471; Gaz. vol. 153; p. 245.
Hollingsworth, Willis A., assignor of one-half to B. L. Cosner, Enid, Okla. Threshing-machine. No. 953,833; Apr. 5; Sp. p. 299; Gaz. vol. 153; p. 53.
Hollingworth, Edward, Dobcross, England, assignor to Crompton & Knowles Loom Works. Dobby for looms for weaving. No. 964,256; July 12; Sp. p. 2669; Gaz. vol. 156; p. 440.
Hollins, Denis M., Blackburn, England, assignor to Draper Company, Hopedale, Mass. Change-controlling mechanism for jacquards employed in automatic weft-replenishing looms. No. 970,502; Sept. 20; Sp. p. 2895; Gaz. vol. 158; p. 506.
Hollis, Catherine, Brockton, Mass. Hand-bag. No. 979,763; Dec. 27; Sp. p. 5078; Gaz. vol. 161; p. 884.
Hollis, Elbert H., assignor of two-thirds to J. M. Coppinger, Kansas City, Mo., and one-third to M. F. Lynch, Excelsior Springs, Mo. Safety-valve mechanism for gas-pipes. No. 976,078; Nov. 15; Sp. p. 4341; Gaz. vol. 160; p. 737.
Hollis, John N., Macon, Ga. Cleaning-machine. No. 978,749; Dec. 13; Sp. p. 2885; Gaz. vol. 161; p. 488.
Hollis, Venning P., Minneapolis, Minn. Mower. No. 960,551; June 7; Sp. p. 642; Gaz. vol. 155; p. 104.
Hollis, William H., Philadelphia, Pa. Tag-holder. No. 963,765; July 12; Sp. p. 1629; Gaz. vol. 156; p. 275.
Hollister, Orange E., assignor of one-half to H. M. Carpenter, Hastings, Nebr. Tent. No. 971,613; Oct. 4; Sp. p. 226; Gaz. vol. 159; p. 40.
Hollon, George F., Waco, Tex. Razor. No. 957,060; May 3; Sp. p. 1206; Gaz. vol. 154; p. 192.
Hollopeter, William H., Portland, Oreg. Internal-combustion engine. No. 945,393; Jan. 4; Sp. p. 844; Gaz. vol. 150; p. 131.
Holloway, Chester L., Passaic, N. J. Carrier for cans. No. 962,025; June 21; Sp. p. 3713; Gaz. vol. 155; p. 652.
Holloway, Harry H., Butler, Mo. Advertising device. No. 954,288; Apr. 5; Sp. p. 1259; Gaz. vol. 153; p. 209.
Holloway, Walter S., Flushing, Ohio. Autoharp and like instrument. No. 975,865; Nov. 15; Sp. p. 3942; Gaz. vol. 160; p. 664.
Hollowell, Walter, *et al.* (See Drake, Charles H., assignor.)
Holm, Guy D., Brady, Nebr. Trace-supporter. No. 970,226; Sept. 13; Sp. p. 2331; Gaz. vol. 158; p. 392.
Holm, Hans C., Brooklyn, N. Y. Device for governing and regulating steam-engines. No. 965,904; Aug. 2; Sp. p. 123; Gaz. vol. 157; p. 21.
Holm, Peter J., assignor to Holm's Machine Manufacturing Company, Sparta, Mich. Governor. No. 973,505; Oct. 25; Sp. p. 4393; Gaz. vol. 159; p. 768.
Holm, Wilhelm, Davenport, Iowa. Chimney-helmet for good draft and weather protection. No. 967,018; Aug. 9; Sp. p. 2558; Gaz. vol. 157; p. 420.
Holman, Harry V., Colorado Springs, Colo. Filter. No. 966,918; Aug. 9; Sp. p. 2357; Gaz. vol. 157; p. 386.
Holman, Joseph W., Detroit, Mich. Wall-mold. No. 953,383; Mar. 29; Sp. p. 6044; Gaz. vol. 152; p. 1086.
Holman, Maggie P. (See Rote, Charles V., assignor.)
Holman, Stephen A., Santa Maria, Cal. Rail-joint. No. 946,545; Jan. 18; Sp. p. 3453; Gaz. vol. 150; p. 581.
Holman, Stephen A., Santa Maria, Cal. Wrench. No. 976,740; Nov. 22; Sp. p. 5827; Gaz. vol. 160; p. 987.
Holmberg, Anders G., Långgrufvan, Sweden. Magnetic ore-separator. No. 972,109; Oct. 4; Sp. p. 1287; Gaz. vol. 159; p. 217.
Holmberg & Company, Charles. (See Molander, Charles F., assignor.)
Holmén, Axel R., Columbus, Ohio. Loading and unloading apparatus. No. 954,572; Apr. 12; Sp. p. 1864; Gaz. vol. 153; p. 333.
Holmes, Abram G., Pittsburg, Pa., assignor to Pittsburgh Meter Company. Nutating disk for meters. No. 951,787; Mar. 8; Sp. p. 2693; Gaz. vol. 152; p. 464.
Holmes, Alfred E., Chicago, Ill. Collapsible furniture. No. 950,015; May 31; Sp. p. 7789; Gaz. vol. 154; p. 1311.
Holmes, Charles P. and E., Lynn, assignors to S. W. Winslow, Beverly, Mass. Automatic nailing or tacking apparatus. No. 979,953; Dec. 27; Sp. p. 5480; Gaz. vol. 161; p. 947.
Holmes, David R., and R. B. Crozier, Dunnegan, Mo. Paper-bag holder. No. 969,626; Sept. 6; Sp. p. 1014; Gaz. vol. 158; p. 162.
Holmes, Edward B. (See Beugler, Edwin F., assignor.)
Holmes, Edward C., Ludlow, Ky. Curtain for vestibule-cars. No. 956,966; May 3; Sp. p. 1021; Gaz. vol. 154; p. 160.
Holmes, Edward L., Seattle, Wash. Gas-governor. No. 966,096; Aug. 2; Sp. p. 535; Gaz. vol. 157; p. 87.
Holmes, Elbridge R., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Lay for narrow-ware looms. No. 956,854; May 3; Sp. p. 778; Gaz. vol. 154; p. 123.
Holmes, Elbridge R., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Narrow-ware or ribbon loom. No. 958,703; May 17; Sp. p. 4962; Gaz. vol. 154; p. 814.
Holmes, Elbridge R., and R. E. Valentine, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Let-off mechanism for looms. No. 953,664; Mar. 29; Sp. p. 6635; Gaz. vol. 152; p. 1184.
Holmes, Emil. (See Holmes, Charles P. and E.)
Holmes, Ethan J., Farmington, Conn. Combined carriage pole and shafts. No. 977,093; Nov. 29; Sp. p. 6664; Gaz. vol. 160; p. 1135.
Holmes, Frank M., Marionville, assignor of part to A. L. Ledbetter, Marionville, and A. V. Boswell and L. D. Snapp, Jasper county, Mo. Storage-battery plate. No. 953,269; Mar. 29; Sp. p. 5790; Gaz. vol. 152; p. 1047.
Holmes, Franklin L., Smethport, Pa. Burglar-alarm. No. 975,952; Nov. 15; Sp. p. 4112; Gaz. vol. 160; p. 694.
Holmes, Grant, assignor to Robert Holmes & Brothers, Danville, Ill. Excavating-machine. No. 948,051; Feb. 1; Sp. p. 568; Gaz. vol. 151; p. 91.
Holmes, Grant, assignor to Robert Holmes & Brothers, Danville, Ill. Feeder or receiving-pan for conveyers. No. 950,621; Mar. 1; Sp. p. 334; Gaz. vol. 152; p. 54.
Holmes, Hamden H., assignor of one-half to H. M. Richards, Galesburg, Ill. Razor-blade holder. No. 953,421; Mar. 29; Sp. p. 6122; Gaz. vol. 152; p. 1099.
Holmes, Herbert G., assignor to Ideal Motor Company, Lansing, Mich. Explosive-engine. No. 948,925; Feb. 8; Sp. p. 2403; Gaz. vol. 151; p. 409.
Holmes, Hiram W., Oakville, Conn. Sash-fastener. No. 969,870; Sept. 13; Sp. p. 1576; Gaz. vol. 158; p. 271.
Holmes, Howard B., Park Ridge, and E. B. Craft, Wilmette, assignors to Western Electric Company, Chicago, Ill. Automatic exchange-selector. No. 970,821; Sept. 20; Sp. p. 3623; Gaz. vol. 158; p. 619.
Holmes, John F., Waterbury, Conn. Electrical means for operating clock-pendulums. No. 961,776; June 21; Sp. p. 3175; Gaz. vol. 155; p. 570.
Holmes, John H., Newcastle-upon-Tyne, England. Securing-washer. No. 955,160; Apr. 19; Sp. p. 3156; Gaz. vol. 153; p. 567.
Holmes, Joseph W., Galesburg, Ill. Wheel. No. 978,161; Dec. 13; Sp. p. 1614; Gaz. vol. 161; p. 286.
Holmes, Omer, Clatskanie, Oreg. Table. No. 946,363; Jan. 11; Sp. p. 2965; Gaz. vol. 150; p. 492.
Holmes, R. K. (See Kittle and Gates, assignors.)
Holmes, Rush C., North Bend, Oreg. Device for packing eggs. No. 969,954; Sept. 13; Sp. p. 1745; Gaz. vol. 158; p. 300.
Holmes, Wm. H., *et al.* (See Baird, Archie M., assignor.)
Holmgren, Gustaf O., Vesterås, Sweden. Electric machine. No. 955,268; Apr. 19; Sp. p. 3396; Gaz. vol. 153; p. 604.
Holmgren, Peter, assignor of one-fourth to E. Pike, Mammoth, Utah. Car-wheel. No. 977,308; Nov. 29; Sp. p. 7109; Gaz. vol. 160; p. 1209.
Holmquist, John A., Pueblo, Colo. Machine for making wire-netting and field-fencing. No. 951,610; Mar. 8; Sp. p. 2321; Gaz. vol. 152; p. 403.
Holm's Machine Manufacturing Company. (See Holm, Peter J., assignor.)
Holms, William L., Guadalajara, Mexico, Leonard M. Green, London, England, and John S. Pattinson, Zacatecas, Mexico. Means for separating water or solution from solids, such as slimy ores, pulp, and the like. No. 957,775; May 10; Sp. p. 2705; Gaz. vol. 154; p. 464.
Holmström, Axel, Gefle, Sweden. Etching apparatus. No. 979,071; Dec. 20; Sp. p. 3562; Gaz. vol. 161; p. 623.
Holnagel, William A., Saginaw, Mich. Silo. No. 947,334; Jan. 25; Sp. p. 5178; Gaz. vol. 150; p. 873.
Holophane Glass Company. (See D'Olier, Henry, Jr., assignor.)
Holsey, Arthur, assignor, by mesne assignments, to O. Armstrong, Ottumwa, Iowa. Bag-tongs. No. 969,695; Sept. 6; Sp. p. 1144; Gaz. vol. 158; p. 185.
Holsman, Henry K., Chicago, Ill., assignor to Independent Harvester Company. Drive-chain. No. 959,532; May 31; Sp. p. 6728; Gaz. vol. 154; p. 1145.
Holsman, Henry K., and C. H. Bryan, Chicago, Ill. Rope for power-transmission purposes. No. 956,578; May 3; Sp. p. 155; Gaz. vol. 154; p. 27.
Holst, Henry F. J. (See Meyer and Holst.)
Holst, John, Berkeley, Cal. Pump. No. 959,533; May 31; Sp. p. 6730; Gaz. vol. 154; p. 1145.
Holstein, Paul W., and G. C. Horst, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company. Car-haul. No. 971,614; Oct. 4; Sp. p. 228; Gaz. vol. 159; p. 40.
Holstrom, Carl, and A. E. Mascall, London, assignors of one-third to E. Middleton, Sheffield, England. Firing mechanism for ordnance. No. 958,642; May 17; Sp. p. 4838; Gaz. vol. 154; p. 794.
Holt, Albert T., Columbus, Ohio. Lacing. No. 957,559; May 10; Sp. p. 2267; Gaz. vol. 154; p. 392.
Holt & Beebee. (See Holt, Oliver J., assignor.)
Holt, Benjamin, Stockton, Cal. Traction-engine. No. 945,538; Jan. 4; Sp. p. 1146; Gaz. vol. 150; p. 177.
Holt, Benjamin, Stockton, Cal. Combined harvester. No. 952,330; Mar. 15; Sp. p. 3767; Gaz. vol. 152; p. 675.
Holt, Benjamin, Stockton, Cal. Harvester. No. 954,394; Apr. 5; Sp. p. 1473; Gaz. vol. 153; p. 245.
Holt, Benjamin, Stockton, Cal. Traction-engine. No. 970,503; Sept. 20; Sp. p. 2896; Gaz. vol. 158; p. 506.

Holt, Charles L., Lawrence, Mass. Roof-collar for vent-pipes. No. 969,476; Sept. 6; Sp. p. 683; Gaz. vol. 158; p. 108.
Holt, Gardner L., Hartford, Conn. Pliers or pipe-tongs. No. 957,560; May 10; Sp. p. 2267; Gaz. vol. 154; p. 392.
Holt, Harris B., assignor of one-half to C. A. Conn, Pittsburg, Pa. Fluid-pressure motor. No. 957,339; May 10; Sp. p. 1828; Gaz. vol. 154; p. 318.
Holt, Henry L., Camden, Ark. Apparatus for preparing food products. No. 969,955; Sept. 13; Sp. p. 1746; Gaz. vol. 158; p. 300.
Holt, John, Aston, near Birmingham, England. Sharpener for scissors, knives, and the like. No. 954,289; Apr. 5; Sp. p. 1261; Gaz. vol. 153; p. 209.
Holt, Oliver J., Chelsea, assignor to Holt & Beebee, Boston, Mass. Lamp. No. 959,431; May 24; Sp. p. 6477; Gaz. vol. 154; p. 1085.
Holt, Ransom L., Woodbury, Ga. Automatic interlocking crossing system. No. 974,273; Nov. 1; Sp. p. 436; Gaz. vol. 160; p. 64.
Holt, Robert J., assignor of one-half to A. and E. Kaufmann, Atlanta, Ga. Crib attachment for beds. No. 965,522; July 26; Sp. p. 5470; Gaz. vol. 156; p. 931.
Holt, William J., High Barnet, England. Apparatus for etching printing-plates. No. 962,839; June 28; Sp. p. 5482; Gaz. vol. 155; p. 958.
Holte, John T., Moorhead, Minn. Broom-holder. No. 959,139; May 24; Sp. p. 5911; Gaz. vol. 154; p. 990.
Holtfoth, Joachim T., and E. T. Remisch, Kalamazoo, Mich. Non-refillable bottle. No. 945,168; Jan. 4; Sp. p. 332; Gaz. vol. 150; p. 56.
Holtgrewe, Henry M., St. Louis, Mo. Clamping device for furniture. No. 949,233; Feb. 15; Sp. p. 3045; Gaz. vol. 151; p. 539.
Holtkott, Richard. (See Traeber and Holtkott.)
Holtmann, Charles F., Pittsburg, assignor of three-fifths to S. C. Gailey, Wilkinsburg, Pa. Gas burner or heater. No. 959,343; May 24; Sp. p. 6326; Gaz. vol. 154; p. 1058.
Holton, Albert. (See Ross and Holton.)
Holton, Frank, assignor to Frank Holton & Company, Chicago, Ill. Drumhead-tightener. No. 973,661; Oct. 25; Sp. p. 4735; Gaz. vol. 159; p. 822.
Holtorp, Wilhelm, Hamburg, Germany. Means for lubricating bearings. No. 974,966; Nov. 8; Sp. p. 2033; Gaz. vol. 160; p. 332.
Holtz, Charles W., Wiesbaden, Germany. Line-ruling device. No. 955,161; Apr. 19; Sp. p. 3159; Gaz. vol. 153; p. 568.
Holtz, Gustav, Gouldsboro, Pa. Sanitary dental-bracket tray. No. 959,534; May 31; Sp. p. 6732; Gaz. vol. 154; p. 1146.
Holtz, Gustav, Gouldsboro, Pa. Sanitary dental bracket-table. No. 979,493; Dec. 27; Sp. p. 4475; Gaz. vol. 161; p. 791.
Holtzer-Cabot Electric Company. (See Freier, Anton, assignor.)
Holtzer-Cabot Electric Company. (See Heeney, Henry J., assignor.)
Holtzer Cabot Electric Company. (See Taylor, Walter F., assignor.)
Holtzer-Cabot Electric Company. (See Tormin, Egmont M., assignor.)
Holtzhouser, Jacob P., assignor to The Stanley Works, New Britain, Conn. Hasp-handle for washing-machines and other containers. No. 958,745; May 24; Sp. p. 5058; Gaz. vol. 154; p. 854.
Holub, Charles J., Newport, Ky., assignor to The Peck, Williamson Heating & Ventilating Company, Cincinnati, Ohio. Furnace-heat-conductor pipe. No. 975,360; Nov. 8; Sp. p. 2876; Gaz. vol. 160; p. 464.
Holweg, Carl, Strasburg, Germany. Paper-bag machine. No. 977,801; Dec. 6; Sp. p. 832; Gaz. vol. 161; p. 130.
Holwick, Daniel L. (See Keagy, Rudolph H. and M. L., assignors.)
Holyoke Machine Company. (See White, William D., assignor.)
Holz, Edward M., Chicago, Ill. Shaving-paper holder. No. 946,728; Jan. 18; Sp. p. 3829; Gaz. vol. 150; p. 639.
Holz Manufacturing Company, The. (See Holz, Theodor, assignor.)
Holz, Theodor, Cleveland, Ohio, assignor to The Holz Manufacturing Company. Bottle-handling device. No. 965,629; July 26; Sp. p. 5708; Gaz. vol. 156; p. 970.
Holzhey, Otto, and O. Dickhaus, New York, N. Y. Braided necktie. No. 958,872; May 24; Sp. p. 5367; Gaz. vol. 154; p. 901.
Homan, Eugene, Jersey City, N. J. Glass-beveling machine. No. 970,227; Sept. 13; Sp. p. 2332; Gaz. vol. 158; p. 392.
Homan, Frank, Carbon, W. Va. Switch. No. 959,344; May 24; Sp. p. 6330; Gaz. vol. 154; p. 1058.
Homan, William M., Bethlehem, Orange River Colony. Sun-dial. No. 946,223; Jan. 11; Sp. p. 2661; Gaz. vol. 150; p. 443.
Homann, Alfred, New Braunfels, Tex. Harness-saddle. No. 958,643; May 17; Sp. p. 4842; Gaz. vol. 154; p. 795.
Homans, Jacobus J., Samarang, Java. Apparatus for separating scum and precipitates from sugar-juice. No. 978,450; Dec. 13; Sp. p. 2225; Gaz. vol. 161; p. 386.
Homans, Jacobus J., Samarang, Java. Extracting juice from sugar-cane or sugar-beet. No. 978,451; Dec. 13; Sp. p. 2227; Gaz. vol. 161; p. 386.
Homans, Jacobus J., Samarang, Java. Separating scum from sugar-juice. No. 978,750; Dec. 13; Sp. p. 2887; Gaz. vol. 161; p. 489.
Homans, Thomas S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 965,300; July 26; Sp. p. 4957; Gaz. vol. 156; p. 855.
Hombarg, George, Hampton, Ky. Well-drilling-machine attachment. No. 979,954; Dec. 27; Sp. p. 5484; Gaz. vol. 161; p. 948.
Homburg, Christian F., Chicago, Ill., assignor to Cellulose Package Manufacturing Co. Apparatus for forming receptacles from pulp. No. 954,962; Apr. 12; Sp. p. 2774; Gaz. vol. 153; p. 470.
Homer Roberts Telephone Co. (See Roberts, Homer J., assignor.)
Homer Roberts Telephone Co. (See Soans and Graves, assignors.)
Homet, Jewet G., Scranton, Pa. Cravat-holder. No. 974,148; Nov. 1; Sp. p. 82; Gaz. vol. 160; p. 17.
Homme, Frank O., J. T. Vollen, and I. L. Isaacson, Kloten, N. D. Scissors. No. 946,441; Jan. 11; Sp. p. 3229; Gaz. vol. 150; p. 519.
Homme, Frank O., J. T. Vollen, and I. L. Isaacson, Kloten, N. D. Churn. No. 956,639; May 3; Sp. p. 283; Gaz. vol. 154; p. 47.
Hommel, Woldemar. (See Durant, Sulman, and Hommel.)
Hommel, Woldemar, and H. L. Sulman, assignors to The Metals Extraction Corporation Limited, London, England. Obtaining zinc oxid from zinc ores and products. No. 966,209; Aug. 2; Sp. p. 795; Gaz. vol. 157; p. 125.
Homsher, Carl S. (See Healey and Homsher.)
Honabach, Clarence W., Edwardsville, Pa. Shaking-screen. No. 948,222; Feb. 1; Sp. p. 904; Gaz. vol. 151; p. 148.
Honabach, Clarence W., Edwardsville, Pa. Conveyer-chain. No. 955,070; Apr. 12; Sp. p. 2974; Gaz. vol. 153; p. 505.
Honecker, Jacob J., Cleveland, Ohio. Combined stopper and connection for water-bottles. No. 966,748; Aug. 9; Sp. p. 1991; Gaz. vol. 157; p. 332.
Honigmann, Hans, Duluth, Minn. Automatic feeder for platen printing-presses. No. 970,822; Sept. 20; Sp. p. 3626; Gaz. vol. 158; p. 619.
Honiss, William H., Hartford, Conn., assignor of one-half to Beech-Nut Packing Company, Canajoharie, N. Y., and one-fourth to W. A. Lorenz, Hartford, Conn. Leveler for jar-caps. No. 956,529; May 3; Sp. p. 42; Gaz. vol. 154; p. 10.
Honold, Gottlob, Stuttgart, Germany. Sparking plug. No. 972,560; Oct. 11; Sp. p. 2277; Gaz. vol. 159; p. 393.
Honold, Gottlob, Stuttgart, Germany. Magneto-electric generator. No. 974,967; Nov. 8; Sp. p. 2034; Gaz. vol. 160; p. 332.
Honscheid, William, Elmira, N. Y. Planer-chuck. No. 970,710; Sept. 20; Sp. p. 3372; Gaz. vol. 158; p. 578.
Hoober, John B., Kansas City, Mo. Cultivator. No. 968,054; Aug. 23; Sp. p. 4702; Gaz. vol. 157; p. 821.
Hood, Alexander J., Muscoda, Wis. Gage and work-dropping device for platen printing-presses. No. 976,366; Nov. 22; Sp. p. 5057; Gaz. vol. 160; p. 859.
Hood, Arthur N., assignor to Hood Rubber Company, Boston, Mass. Removable rim for vehicle-wheels. No. 974,770; Nov. 1; Sp. p. 1566; Gaz. vol. 160; p. 241.
Hood, Charles E., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Heel-burnishing machine. No. 957,958; May 17; Sp. p. 3129; Gaz. vol. 154; p. 557.
Hood, Charles H., Somerville, Mass. Can-cleaning apparatus. No. 949,121; Feb. 15; Sp. p. 2829; Gaz. vol. 151; p. 500.
Hood, Ernest K., Indianapolis, Ind. Propeller turbine-pump. No. 975,526; Nov. 15; Sp. p. 3231; Gaz. vol. 160; p. 550.
Hood, Ernest K., assignor to Climax Machinery Company, Indianapolis, Ind. Receptacle-filling machine. No. 964,781; July 19; Sp. p. 3911; Gaz. vol. 156; p. 650.
Hood, Ernest K., assignor to Climax Machinery Company, Indianapolis, Ind. Shaker. No. 974,968; Nov. 8; Sp. p. 2038; Gaz. vol. 160; p. 333.
Hood, Herbert, Toledo, Ohio. Lever-lock for automobiles. No. 972,193; Oct. 11; Sp. p. 1487; Gaz. vol. 159; p. 264.
Hood, John E., *et al.* (See Ashford, Thomas R., assignor.)
Hood, John J., and A. G. Salamon, London, England, assignors to The Oil Refining Improvements Company, Limited, Glasgow, Scotland. Treatment of mineral and vegetable oils. No. 962,840; June 28; Sp. p. 5484; Gaz. vol. 155; p. 959.
Hood, John J., and A. G. Salamon, London, England, assignors to The Oil Refining Improvements Company, Limited, Glasgow, Scotland. Treatment of mineral and vegetable oils. No. 962,841; June 28; Sp. p. 5485; Gaz. vol. 155; p. 959.
Hood, Linsey V., Gail, Tex. Lubricator. No. 963,441; July 5; Sp. p. 962; Gaz. vol. 156; p. 144.
Hood, Milton B., Melrose, Mass. Wax cake. No. 964,422; July 12; Sp. p. 2998; Gaz. vol. 156; p. 494.
Hood, Robert, Cedarville, Ohio. Iron cross-tie for railways. No. 950,174; Feb. 22; Sp. p. 5087; Gaz. vol. 151; p. 893.

Alphabetical list of patentees—Continued.

Hood Rubber Company. (See Duncan and Tousley, assignors.)
Hood Rubber Company. (See Hood, Arthus N., assignor.)
Hoofnagle, William T., Ridgewood, N. J. Dissociating and removing vapor from aqueous liquids. No. 956,097; Apr. 26; Sp. p. 5221; Gaz. vol. 153; p. 918.
Hook, Charles H., Pittsburg, Pa. Heater. No. 964,423; July 12; Sp. p. 2998; Gaz. vol. 156; p. 494.
Hooker Electrochemical Company. (See Sperry, Elmer A., assignor.)
Hooker, Joseph R., Carthage, Mo. Bed-spring. No. 962,352; June 21; Sp. p. 4436; Gaz. vol. 155; p. 765.
Hooker, Ralph M., North Plainfield, N. J. Cabinet for books. No. 966,549; Aug. 9; Sp. p. 1543; Gaz. vol. 157; p. 263.
Hooker, Thomas, Syracuse, N. Y. Handle-fastening wedge. No. 959,862; May 31; Sp. p. 7430; Gaz. vol. 154; p. 1257.
Hooker, William E., Buffalo, N. Y. Tobacco-smoking pipe. No. 958,398; May 17; Sp. p. 4366; Gaz. vol. 154; p. 713.
Hookham, George, Birmingham, England. Resistance device. No. 946,364; Jan. 11; Sp. p. 2967; Gaz. vol. 150; p. 493.
Hooper, Rebecca E., Half Moon Bay, Cal. Sanitary drinking appliance. No. 978,295; Dec. 13; Sp. p. 1908; Gaz. vol. 161; p. 334.
Hooper, William, Warner, Kans. Fence-post. No. 971,270; Sept. 27; Sp. p. 4535; Gaz. vol. 158; p. 793.
Hooper, William H., Lynn, assignor to T. G. Plant, Boston, Mass. Channel-lip-turning machine. No. 947,509; Jan. 25; Sp. p. 5611; Gaz. vol. 150; p. 932.
Hooper, William H., Lynn, assignor to T. G. Plant, Boston, Mass. Machine for treating insoles of boots and shoes. No. 957,959; May 17; Sp. p. 3135; Gaz. vol. 154; p. 557.
Hooper, William H., Lynn, assignor to T. G. Plant, Boston, Mass. Insole-edge trimmer. No. 957,960; May 17; Sp. p. 3139; Gaz. vol. 154; p. 558.
Hooper, William H., Lynn, assignor to T. G. Plant, Boston, Mass. Insole-tempering machine. No. 957,961; May 17; Sp. p. 3142; Gaz. vol. 154; p. 558.
Hooper, William H., Lynn, assignor to T. G. Plant, Boston, Mass. Treeing-machine. No. 957,962; May 17; Sp. p. 3145; Gaz. vol. 154; p. 559.
Hooper, William H., Lynn, assignor to T. G. Plant, Boston, Mass. Treeing-machine. No. 957,963; May 17; Sp. p. 3154; Gaz. vol. 154; p. 559.
Hooper, William H., Swampscott, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Boot-treeing machine. No. 957,964; May 17; Sp. p. 3163; Gaz. vol. 154; p. 559.
Hooppaw, Oscar W., assignor to Monarch Metal Weather Strip Company, St. Louis, Mo. Weather-strip. No. 962,351; June 21; Sp. p. 4434; Gaz. vol. 155; p. 764.
Hoops, Thomas, Jr., assignor to Wilcox, Crittenden and Company, Middletown, Conn. Light-securing means. No. 960,926; June 7; Sp. p. 1368; Gaz. vol. 155; p. 230.
Hoorickx, Emile, Brussels, Belgium. Manufacture of silvered-glass mirrors. No. 966,097; Aug. 2; Sp. p. 537; Gaz. vol. 157; p. 87.
Hoover, Aaron E., Denver, Colo. Portable bath. No. 965,713; July 26; Sp. p. 5877; Gaz. vol. 156; p. 998.
Hoover, Claude V., North Birmingham, Ala. Hose-nozzle support. No. 961,234; June 14; Sp. p. 2018; Gaz. vol. 155; p. 364.
Hoover, George M. (See Thomas, John H., assignor.)
Hoover, John B., Elizabeth, N. J. Lock. No. 972,535; Oct. 11; Sp. p. 2220; Gaz. vol. 159; p. 384.
Hoover Suction Sweeper Company, The. (See Spangler, James M., assignor.)
Hoover, Theodore J., assignor to Minerals Separation Limited, London, England. Apparatus for ore concentration. No. 953,746; Apr. 5; Sp. p. 128; Gaz. vol. 153; p. 25.
Hoover, Theodore J., assignor to The Minerals Separation Limited, London, England. Apparatus for ore concentration. No. 979,857; Dec. 27; Sp. p. 5295; Gaz. vol. 161; p. 916.
Hoover, William, and E. C. Gates, Macclenny, Fla. Agricultural implement. No. 945,460; Jan. 4; Sp. p. 966; Gaz. vol. 150; p. 152.
Hope, Charles H., Providence, R. I. Machine for grinding the surfaces of printing or embossing cylinders. No. 959,140; May 24; Sp. p. 5912; Gaz. vol. 154; p. 990.
Hope Webbing Company. (See Steere, Clarence A., assignor.)
Hopfelt, Robert, Cologne-Klettenberg, Germany. Removing oxygen from vessels. No. 975,040; Nov. 8; Sp. p. 2191; Gaz. vol. 160; p. 356.
Hopkins & Allen Arms Company, The. (See Gates, William H., assignor.)
Hopkins & Allen Arms Company, The. (See Wright, Arthur C., assignor.)
Hopkins, Annie, Lewistown, Mont. Dressmaker's scissors. No. 961,235; June 14; Sp. p. 2019; Gaz. vol. 155; p. 364.
Hopkins, Augusta D., Covington, La. Grater. No. 977,872; Dec. 6; Sp. p. 986; Gaz. vol. 161; p. 155.
Hopkins, Charles H., Minoa, N. Y. Station-indicator and advertising device. No. 956,098; Apr. 26; Sp. p. 5223; Gaz. vol. 153; p. 919.
Hopkins, Charles L., New Orleans, La. Excavating apparatus. No. 963,561; July 5; Sp. p. 1196; Gaz. vol. 156; p. 185.
Hopkins, Charles L., New Orleans, La. Excavating apparatus. No. 963,562; July 5; Sp. p. 1201; Gaz. vol. 156; p. 185.
Hopkins, Charles L., New Orleans, La. Excavating apparatus. No. 963,563; July 5; Sp. p. 1204; Gaz. vol. 156; p. 185.
Hopkins, Charles L., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-fixture. No. 950,622; Mar. 1; Sp. p. 337; Gaz. vol. 152; p. 55.
Hopkins, Charles L., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-holding device. No. 967,382; Aug. 16; Sp. p. 3307; Gaz. vol. 157; p. 572.
Hopkins, Charles L., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-fixture. No. 967,920; Aug. 23; Sp. p. 4412; Gaz. vol. 157; p. 777.
Hopkins, Charles L., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-holding device. No. 972,450; Oct. 11; Sp. p. 2016; Gaz. vol. 159; p. 354.
Hopkins, Frank P., Lakewood, Ohio. Liquid-cooler. No. 976,803; Nov. 22; Sp. p. 5977; Gaz. vol. 160; p. 1009.
Hopkins, Harvey L., Chicago, Ill., assignor to Hopkins Patent Company. Mower and harvester. No. 959,535; May 31; Sp. p. 6734; Gaz. vol. 154; p. 1146.
Hopkins, Henry. (See Hopkins, William and H.)
Hopkins, Hubert, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Copy-holder. No. 947,614; Jan. 25; Sp. p. 5828; Gaz. vol. 150; p. 967.
Hopkins, Hubert, assignor to The Moon-Hopkins Billing Machine Company, St. Louis, Mo. Copy-holder. No. 979,670; Dec. 27; Sp. p. 4859; Gaz. vol. 161; p. 852.
Hopkins, James H., Manchester, England. Internal-combustion engine. No. 956,967; May 3; Sp. p. 1022; Gaz. vol. 154; p. 160.
Hopkins, John H., Punxsutawney, Pa. Churn. No. 970,823; Sept. 20; Sp. p. 3631; Gaz. vol. 158; p. 619.
Hopkins, Leslie, Kansas City, Mo. Sign-exhibiting apparatus. No. 978,162; Dec. 13; Sp. p. 1615; Gaz. vol. 161; p. 286.
Hopkins, Nevil M., Washington, D. C. Card game. No. 977,010; Nov. 29; Sp. p. 6491; Gaz. vol. 160; p. 1107.
Hopkins, Nevil M., assignor to The Electric Speedometer and Dynamometer Manufacturing Company, Washington, D. C. Attachment-plug for engine-cylinders. No. 949,704; Feb. 15; Sp. p. 3998; Gaz. vol. 151; p. 695.
Hopkins, Nevil M., assignor to The Electric Speedometer and Dynamometer Manufacturing Company, Washington, D. C. Tachometer and odometer. No. 949,746; Feb. 15; Sp. p. 4096; Gaz. vol. 151; p. 710.
Hopkins Patent Company. (See Hopkins, Harvey L., assignor.)
Hopkins, Prince C., Santa Barbara, Cal. Mechanical toy. No. 946,778; Jan. 18; Sp. p. 3947; Gaz. vol. 150; p. 657.
Hopkins, Samuel M., Emhouse, Tex. Churn. No. 957,608; May 10; Sp. p. 2347; Gaz. vol. 154; p. 408.
Hopkins, William and H., Oakland, Cal. Propulsion-vehicle. No. 968,355; Aug. 23; Sp. p. 5367; Gaz. vol. 157; p. 926.
Hopkins, William A., Decatur, Ill., assignor to Ward Equipment Company, New York, N. Y. Junction-box, receptacle, and plug for electrical connections. No. 965,187; July 26; Sp. p. 4718; Gaz. vol. 156; p. 817.
Hopkins, William W., assignor of one-half to M. J. Ehrlich, St. Louis, Mo. Davenport. No. 961,445; June 14; Sp. p. 2478; Gaz. vol. 155; p. 435.
Hopkins, William W., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Full-stroke mechanism for calculating-machines, &c. No. 977,190; Nov. 29; Sp. p. 6892; Gaz. vol. 160; p. 1170.
Hopkins, William W., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Type-writing machine. No. 979,671; Dec. 27; Sp. p. 4861; Gaz. vol. 161; p. 852.
Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Scale. No. 967,194; Aug. 16; Sp. p. 2939; Gaz. vol. 157; p. 508.
Hopley, Lewis S., Hartford, Conn., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 946,365; Jan. 11; Sp. p. 2969; Gaz. vol. 150; p. 493.
Hoppenstein, Harris, Baltimore, Md. Combined vest and suspenders. No. 970,824; Sept. 20; Sp. p. 3633; Gaz. vol. 158; p. 620.
Hopper, John G., San Francisco, Cal. Brake mechanism for automobiles. No. 977,631; Dec. 6; Sp. p. 479; Gaz. vol. 161; p. 73.
Hopper, John S., assignor of one-half to G. W. Howe, Cincinnati, Ohio. Window-sash. No. 960,552; June 7; Sp. p. 645; Gaz. vol. 155; p. 105.
Hoppes, Addison E. (See Burdge, Franklin P., assignor.)
Hopping, Walter B. (See Chapman, William B., assignor.)
Hopping, Walter B., trustee. (See Chapman, William B., assignor.)
Hopton, Lemuel R., Plainfield, N. J., assignor to Enos Company, New York, N. Y. Electric-lighting fixture. No. 978,163; Dec. 13; Sp. p. 1621; Gaz. vol. 161; p. 287.

Alphabetical list of patentees—Continued.

Hopwood, John M., Belle Vernon, assignor of one-half to D. C. Thomas, Pittsburg, Pa. Automatic oiling device. No. 967,774; Aug. 16; Sp. p. 4113; Gaz. vol. 157; p. 704.
Horan, Michael A., Trenton, N. J. Emergency cut-off for gas-pipes. No. 958,126; May 17; Sp. p. 3659; Gaz. vol. 154; p. 617.
Hord, Waverly M., Warrenton, Va. Nut-lock. No. 947,680; Jan. 25; Sp. p. 5946; Gaz. vol. 150; p. 989.
Horel, Francis R. (See McKee and Horel.)
Horix, Carl, Cleveland, Ohio. Metal studding. No. 955,401; Apr. 19; Sp. p. 3693; Gaz. vol. 153; p. 649.
Horlacher, Adam S., and H. C. Baase, assignors to Chief Manufacturing Company, Indianapolis, Ind. Carpet-cleaning machine. No. 970,228; Sept. 13; Sp. p. 2335; Gaz. vol. 158; p. 393.
Horlick, Edward T. (See Horlick, Robert T., assignor.)
Horlick, Robert T., assignor of one-half to E. T. Horlick, Chicago, Ill. Oiling device. No. 961,497; June 14; Sp. p. 2599; Gaz. vol. 155; p. 453.
Hormel, August, New York, N. Y. Closure for mail-bags and similar articles. No. 948,052; Feb. 1; Sp. p. 571; Gaz. vol. 151; p. 92.
Hormel, August, New York, N. Y. Antiskidding device for automobiles. No. 972,766; Oct. 11; Sp. p. 2723; Gaz. vol. 159; p. 463.
Horn, Frank, Columbus, Ohio. Car-door. No. 958,873; May 24; Sp. p. 5368; Gaz. vol. 154; p. 901.
Horn, Frank, Columbus, Ohio. Coupling-operating attachment for cars. No. 974,793; Nov. 8; Sp. p. 1616; Gaz. vol. 160; p. 272.
Horn, Frank, assignor of one-half to W. C. Althen, Columbus, Ohio. Valve-casing and pipe connection. No. 975,429; Nov. 15; Sp. p. 3024; Gaz. vol. 160; p. 515.
Horn, George A., Newark, N. Y. Lamp-wick. No. 951,122; Mar. 8; Sp. p. 1336; Gaz. vol. 152; p. 244.
Horn, Jeremiah M. (See Horn, John C. and J. M.)
Horn, John C. and J. M., Arba, Ind. Buggy-top clip. No. 960,326; June 7; Sp. p. 173; Gaz. vol. 155; p. 32.
Horn, John J., Surrey, N. D. Bridle attachment. No. 978,296; Dec. 13; Sp. p. 1909; Gaz. vol. 161; p. 334.
Horn, Joseph V., *et al.* (See Anderson, John, assignor.)
Horn, Samuel J. (See Schwartz, Mendel, assignor.)
Horn, William, Detroit, Mich. Trolley-stand. No. 965,817; July 26; Sp. p. 6094; Gaz. vol. 156; p. 1034.
Hornaday, Ernest M., *et al.* (See Repass, James A., assignor.)
Hornbeck, Henry S., Elizabeth, N. J., assignor of one-half to G. M. Newcomer, New York, N. Y. Piano. No. 951,276; Mar. 8; Sp. p. 1646; Gaz. vol. 152; p. 292.
Horne, Irving N., Portland, Me., assignor, by mesne assignments, to Sterilac Company, Boston, Mass. Milking-receptacle. No. 958,399; May 17; Sp. p. 4367; Gaz. vol. 154; p. 713.
Horne, Lewis W., Denver, Colo. Necktie-holder. No. 961,695; June 14; Sp. p. 2993; Gaz. vol. 155; p. 519.
Horne, Tom, and D. C. Smith, McGregor, Tex. Harrow attachment for cultivators. No. 947,910; Feb. 1; Sp. p. 275; Gaz. vol. 151; p. 46.
Horner, Albert, Kukaiau, Hawaii. Equalizer for wire-rope transportation. No. 976,463; Nov. 22; Sp. p. 5267; Gaz. vol. 160; p. 894.
Horner, Charles A., Chattanooga, Tenn. Sash-weight. No. 948,171; Feb. 1; Sp. p. 795; Gaz. vol. 151; p. 132.
Horner, John, Friend, Nebr. Gate. No. 979,302; Dec. 20; Sp. p. 4095; Gaz. vol. 161; p. 705.
Horner, John P., Lockhart, Tex. Cotton-blocking attachment for cultivators. No. 949,795; Feb. 22; Sp. p. 4214; Gaz. vol. 151; p. 761.
Horner, John P., Lockhart, Tex. Cotton-blocking attachment. No. 978,751; Dec. 13; Sp. p. 2889; Gaz. vol. 161; p. 489.
Horner, John W., and G. L. Patterson, Revere, Mass. Egg-beater. No. 959,536; May 31; Sp. p. 6737; Gaz. vol. 154; p. 1147.
Horner, William H., Williams Bridge, N. Y. Sparking plug for internal-combustion engines. No. 963,564; July 5; Sp. p. 1208; Gaz. vol. 156; p. 185.
Hornig, August W., Chicago, Ill. Apparatus for grinding and polishing glass. No. 969,871; Sept. 13; Sp. p. 1578; Gaz. vol. 158; p. 271.
Horning, George D. (See Burns, James A., assignor.)
Hörning, Hermann G. C., New York, N. Y. Button-fastener. No. 950,289; Feb. 22; Sp. p. 5326; Gaz. vol. 151; p. 934.
Hornung, Anton N., Chicago, Ill. Adjustable chair. No. 972,859; Oct. 18; Sp. p. 2938; Gaz. vol. 159; p. 521.
Hornung, John, Dresden, Ohio. Railway-tie. No. 951,277; Mar. 8; Sp. p. 1652; Gaz. vol. 152; p. 293.
Horowitz, Arthur. (See Friedlaender, Albert, assignor.)
Horrocks, Walter E., Lakewood, Ohio. Nut and bolt. No. 976,569; Nov. 22; Sp. p. 5507; Gaz. vol. 160; p. 930.
Horsfall, Aaron, St. Joseph, Mo. Puzzle-purse. No. 979,303; Dec. 20; Sp. p. 4097; Gaz. vol. 161; p. 705.
Horsley, William, Jersey City, N. J. Nozzle for steam-boilers. No. 948,053; Feb. 1; Sp. p. 572; Gaz. vol. 151; p. 92.
Horsrud, Ole, Chicago, Ill. Target. No. 969,477; Sept. 6; Sp. p. 684; Gaz. vol. 158; p. 108.
Horst, George C. (See Holstein and Horst.)
Horst, Ludwig, Altona, Germany. Carbonic-acid motor. No. 961,859; June 21; Sp. p. 3375; Gaz. vol. 155; p. 598.
Horstmann, Ernest L., Chattanooga, Tenn. Railway-tie and fastener. No. 953,665; Mar. 29; Sp. p. 6638; Gaz. vol. 152; p. 1184.
Horstmann, Hermann. (See Berthold and Horstmann.)
Horstmyer, John E., Schenectady, N. Y. Detachable runner for clod-crushers. No. 956,352; Apr. 26; Sp. p. 5778; Gaz. vol. 153; p. 1005.
Horting, Levi W., assignor of one-third to C. F. Stauffer and one-third to B. G. Stauffer, Lancaster, Pa. Electric switch. No. 971,843; Oct. 4; Sp. p. 697; Gaz. vol. 159; p. 123.
Hortman, Isaac A., Philadelphia, Pa. Propeller. No. 979,672; Dec. 27; Sp. p. 4864; Gaz. vol. 161; p. 853.
Hortman, Jacob S., Wilkes-Barre, Pa. Nut-making machine. No. 977,011; Nov. 29; Sp. p. 6492; Gaz. vol. 160; p. 1107.
Horton, Bertha, Tonganoxie, Kans. Chair. No. 947,681; Jan. 25; Sp. p. 5947; Gaz. vol. 150; p. 989.
Horton, Cathrine L., Des Moines, Iowa. Dress-form. No. 972,376; Oct. 11; Sp. p. 1866; Gaz. vol. 159; p. 327.
Horton, Charles M., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Tabi-fastener attachment for sewing-machines. No. 958,251; May 17; Sp. p. 3920; Gaz. vol. 154; p. 659.
Horton, Charles W., Belle Rive, Ill. Road-grading machine. No. 955,071; Apr. 12; Sp. p. 2976; Gaz. vol. 153; p. 505.
Horton, Frederic L., Lynn, Mass. Making carbonized fabric. No. 963,291; July 5; Sp. p. 665; Gaz. vol. 156; p. 94.
Horton, Frederic L., Bridgeport, Conn. Carbonized fabric. No. 972,110; Oct. 4; Sp. p. 1288; Gaz. vol. 159; p. 217.
Horton, George P., Washington, D. C. Electric railway. No. 971,006; Sept. 20; Sp. p. 3959; Gaz. vol. 158; p. 677.
Horton, Gilbert D., Snohomish, Wash. Mailing-tube. No. 948,506; Feb. 8; Sp. p. 1533; Gaz. vol. 151; p. 270.
Horton, James A., Providence, R. I., assignor to Iroquois Machine Company, New York, N. Y. Cooling attachment for wire-drawing dies. No. 957,464; May 10; Sp. p. 2072; Gaz. vol. 154; p. 359.
Horton, James A., Providence, R. I., assignor to Iroquois Machine Company, New York, N. Y. Wire-drawing machine and uncoiling appliance therefor. No. 960,016; May 31; Sp. p. 7791; Gaz. vol. 154; p. 1311.
Horton, Jonathan B., Elkin, N. C. Backboard. No. 977,309; Nov. 29; Sp. p. 7111; Gaz. vol. 160; p. 1210.
Horton, Samuel C., and A. B. Choate, St. Paul, Minn. Box. No. 954,676; Apr. 12; Sp. p. 2108; Gaz. vol. 153; p. 369.
Horvath, Geza, Wheeling, W. Va. Valve-gear for engines. No. 948,223; Feb. 1; Sp. p. 907; Gaz. vol. 151; p. 148.
Horvath, Julius, Newark, Ohio. Bottle annealing and delivering machine. No. 953,337; Mar. 29; Sp. p. 5929; Gaz. vol. 152; p. 1070.
Horvath, Louis, Palmerton, Pa. Cuspidor. No. 956,492; Apr. 26; Sp. p. 6094; Gaz. vol. 153; p. 1054.
Horvath, Louis B., and P. Kotrucz, Milwaukee, Wis. Cuspidor. No. 965,109; July 19; Sp. p. 4562; Gaz. vol. 156; p. 761.
Horváth, Richard von, assignor to F. Kuschenitz, Vienna, Austria-Hungary. Light-striker. No. 971,380; Sept. 27; Sp. p. 4744; Gaz. vol. 158; p. 828.
Horvath, Stefan. (See Vastag and Horvath.)
Horwood, Charles S., Hoboken, N. J. Garment. No. 973,432; Oct. 18; Sp. p. 4230; Gaz. vol. 159; p. 720.
Hoschke, William H., New York, N. Y., assignor to Sonora Phonograph Co. Phonograph. No. 948,327; Feb. 8; Sp. p. 1138; Gaz. vol. 151; p. 209.
Hosea, Lewis M., Cincinnati, Ohio. Universal joint. No. 960,327; June 7; Sp. p. 174; Gaz. vol. 155; p. 32.
Hoskins Manufacturing Company. (See Marsh, Albert L., assignor.)
Hoskins, William, Chicago, Ill. Destroying weeds. No. 965,905; Aug. 2; Sp. p. 126; Gaz. vol. 157; p. 21.
Hoskins, William, Chicago, Ill. Destroying weeds. No. 970,375; Sept. 13; Sp. p. 2626; Gaz. vol. 158; p. 442.
Hoskins, William, La Grange, assignor to The Pulverized Manure Company, Chicago, Ill. Treatment of manure. No. 970,711; Sept. 20; Sp. p. 3374; Gaz. vol. 158; p. 579.
Hosley, Nelson D., assignor to The Wilcox & White Company, Meriden, Conn. Horizontal-grand player-piano. No. 957,421; May 10; Sp. p. 1996; Gaz. vol. 154; p. 344.
Hosley, Nelson D., assignor to The Wilcox & White Company, Meriden, Conn. Swinging music-roll actuator. No. 969,783; Sept. 13; Sp. p. 1374; Gaz. vol. 158; p. 241.
Hospital Supply Company, The. (See Thorner, Bernard D., assignor.)
Hostetter, Frederick, Spokane, Wash. Butter-cutter. No. 966,688; Aug. 9; Sp. p. 1817; Gaz. vol. 157; p. 310.
Hostler, James M. (See Clements and Hostler.)
Hotchkin, Paul M., and A. J. Morgan, assignors to Curtis-Leger Fixture Company, Chicago, Ill. Swinging-door hanger. No. 972,377; Oct. 11; Sp. p. 1868; Gaz. vol. 159; p. 327.
Hotchkiss, Charles R., assignor of one-half to G. S. Montgomery, Oakland, Cal. Amalgamator. No. 945,539; Jan. 4; Sp. p. 1148; Gaz. vol. 150; p. 178.
Hotchkiss, Charles R., assignor of one-half to G. S. Montgomery, Oakland, Cal. Ore-grinding machine. No. 964,024; July 12; Sp. p. 2201; Gaz. vol. 156; p. 362.

Alphabetical list of patentees—Continued.

Hotchkiss, Eli H., Norwalk, Conn., and C. Beach, Catskill, N. Y. Machine for affixing stamps. No. 953,384; Mar. 29; Sp. p. 6046; Gaz. vol. 152; p. 1087.
Hotchkiss, Joseph H., and A. P. Lane, Denver, Colo. Vehicle-brake. No. 949,652; Feb. 15; Sp. p. 3897; Gaz. vol. 151; p. 679.
Hotchkiss Lock Metal Form Company. (See Hotchkiss, Mark S., assignor.)
Hotchkiss, Mark S., Lestershire, N. Y., assignor to Hotchkiss Lock Metal Form Company, Binghamton, N. Y. Form for concrete structural work. No. 955,800; Apr. 19; Sp. p. 4543; Gaz. vol. 153; p. 785.
Hotchkiss, Mark S., Lestershire, N. Y., assignor to Hotchkiss Lock Metal Form Company, Binghamton, N. Y. Form for laying concrete curbs and gutters. No. 955,801; Apr. 19; Sp. p. 4545; Gaz. vol. 153; p. 785.
Hotchkiss, Wesley D., Ithaca, N. Y. Gage. No. 950,175; Feb. 22; Sp. p. 5088; Gaz. vol. 151; p. 893.
Hotel Security Checking Company. (See Jordan, Fred B., assignor.)
Hoteling, William, Oblong, Ill. Drain-pipe inlet. No. 972,860; Oct. 18; Sp. p. 2941; Gaz. vol. 159; p. 522.
Hothersall, John M., assignor to American Can Company, New York, N. Y. Sifter-top can or box. No. 966,550; Aug. 9; Sp. p. 1545; Gaz. vol. 157; p. 264.
Hottel, George H., Strasburg, Va. Feed-regulator for flour-mills. No. 969,372; Sept. 6; Sp. p. 484; Gaz. vol. 158; p. 77.
Hotze, William, St. Louis, Mo. Photographer's tray. No. 979,858; Dec. 27; Sp. p. 5297; Gaz. vol. 161; p. 916.
Houchin-Aiken Company. (See Aiken, Charles W., assignor.)
Houck, John D., Chicago, Ill. Belt-supporting device for trousers. No. 967,521; Aug. 16; Sp. p. 3613; Gaz. vol. 157; p. 620.
Houck, Samuel M., Springfield, Ohio. Corn-harvester. No. 949,983; Feb. 22; Sp. p. 4682; Gaz. vol. 151; p. 828.
Houck, Samuel M., Springfield, Ohio. Corn-harvester. No. 952,740; Mar. 22; Sp. p. 4655; Gaz. vol. 152; p. 843.
Houck, Samuel M., Springfield, Ohio. Harvester. No. 953,145; Mar. 29; Sp. p. 5523; Gaz. vol. 152; p. 1007.
Hough, Charles K., Philadelphia, Pa. Extension-table. No. 954,516; Apr. 12; Sp. p. 1754; Gaz. vol. 153; p. 315.
Hough, David L., Buffalo, N. Y. Washing-machine. No. 964,106; July 12; Sp. p. 2381; Gaz. vol. 156; p. 390.
Hough, Franklin H. (See Olop, Stephen, assignor.)
Hough, Hiram J., Akron, and J. B. Crowl, Alliance, Ohio. Furnace. No. 959,141; May 24; Sp. p. 5913; Gaz. vol. 154; p. 990.
Hough, Joseph, Swayzee, and W. L. Turner, Sims, assignors of one-third to T. E. Baker, Swayzee, Ind. Train-pipe coupling. No. 952,905; Mar. 22; Sp. p. 5000; Gaz. vol. 152; p. 899.
Hough, William J., Toledo, Ohio. Treating "spent" pulping liquors. No. 945,394; Jan. 4; Sp. p. 846; Gaz. vol. 150; p. 131.
Hough, William J., Toledo, Ohio. Treating spent alkaline pulping liquors. No. 949,324; Feb. 15; Sp. p. 3229; Gaz. vol. 151; p. 569.
Hough, William S., Jr. (See Wiley and Hough.)
Houghton, Herbert L., Worcester, Mass. Ratchet-tool. No. 963,895; July 12; Sp. p. 1937; Gaz. vol. 156; p. 318
Houghton, Lewis T. (See Whittum, Edward, assignor.)
Houghton, Orley C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Cotton-harvester. No. 955,594; Apr. 19; Sp. p. 4091; Gaz. vol. 153; p. 714.
Houghton, Orley C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Cotton-harvester. No. 979,859; Dec. 27; Sp. p. 5299; Gaz. vol. 161; p. 917.
Hougk, Henry, Baltimore, Md. Ash-sifter. No. 970,336; Sept. 13; Sp. p. 2545; Gaz. vol. 158; p. 429.
Houk, Russell W. (See Decker and Houk.)
Houldsworth, Henry, Keighley, England. Axle and bearing for vehicles. No. 956,579; May 3; Sp. p. 156; Gaz. vol. 154; p. 27.
Houlehan, John, *et al.* (See Mayo, William C., assignor.)
Hoult, Edward, New Westminster, New Brunswick, Canada. Propelling and steering device for airships. No. 969,627; Sept. 6; Sp. p. 1015; Gaz. vol. 158; p. 162.
Hourioux, Benjamin, Rambouillet, France. Driving mechanism for tractor-tricycles. No. 966,445; Aug. 9; Sp. p. 1268; Gaz. vol. 157; p. 228.
Hourwich, Iskander, Washington, D. C. Aerial projecting apparatus. No. 975,953; Nov. 15; Sp. p. 4114; Gaz. vol. 160; p. 695.
House, Charles, *et al.* (See Ferris, Edgar S., assignor.)
House, Timothy J., Troy, Vt. Making siding. No. 977,012; Nov. 29; Sp. p. 6497; Gaz. vol. 160; p. 1108.
House, William B., Millcreek, Okla. Automatic cotton-packer. No. 949,767; Feb. 22; Sp. p. 4152; Gaz. vol. 151; p. 751.
Houseman, Harry A., assignor to Standard Machine Company, Philadelphia, Pa. Yarn-splicing device for knitting-machines. No. 967,019; Aug. 9; Sp. p. 2559; Gaz. vol. 157; p. 420.
Houseman, Harry A., assignor to Standard Machine Company, Philadelphia, Pa. Circular-knitting machine. No. 968,563; Aug. 30; Sp. p. 5810; Gaz. vol. 157; p. 1023.
Houser, Frank B., Lancaster, Ohio. Flush-closing door. No. 970,337; Sept. 13; Sp. p. 2546; Gaz. vol. 158; p. 429.

Houser, George E., Columbus, Kans. Door-stop. No. 953,037; Mar. 29; Sp. p. 5272; Gaz. vol. 152; p. 971.
Houser, Winfield S., assignor of one-half to W. G. Brown, Dubois, Pa. Resilient wheel. No. 970,229; Sept. 13; Sp. p. 2337; Gaz. vol. 158; p. 393.
Housh Company, The. (See Cadieu, Charles H., assignor.)
Housted, Luman G., Charlotte Harbor, Fla. Steering-gear. No. 978,746; Dec. 13; Sp. p. 2882; Gaz. vol. 161; p. 488.
Houston, Edward D., assignor of one-half to J. W. Knibbs, Worcester, Mass. Seasoning and making the same. No. 970,712; Sept. 20; Sp. p. 3375; Gaz. vol. 158; p. 579.
Houston, George D., Rushville, Ill. Riding-cultivator. No. 967,195; Aug. 16; Sp. p. 2940; Gaz. vol. 157; p. 508.
Houston, John W. (See Costello and Houston.)
Houston, Lewis H., Parral, W. Va. Twine-dispensing device. No. 956,640; May 3; Sp. p. 285; Gaz. vol. 154; p. 47.
Houston Manufacturing Company. (See Sutton, William S., assignor.)
Hout, George A., Crestline, Ohio. Gas-regulator. No. 962,959; June 28; Sp. p. 5699; Gaz. vol. 155; p. 998.
Houze, Luke, assignor of one-third to R. H. Willey, Monterey, and one-third to W. J. Piatt, Berkeley, Cal. Apparatus for baking, glazing, or enameling brick, tile, or other articles. No. 952,196; Mar. 15; Sp. p. 3486; Gaz. vol. 152; p. 628.
Houze, Ulgisse. (See Mambourg and Houze.)
Hovey, Mary E., McKees Rocks, Pa. Cooking utensil. No. 966,210; Aug. 2; Sp. p. 797; Gaz. vol. 157; p. 125.
Hovland, Peter J., Kenneth, Minn. Spring-wheel. No. 963,565; July 5; Sp. p. 1209; Gaz. vol. 156; p. 186.
Hovrud, Knut T., Butler, S. D. Pole-anchor. No. 958,127; May 17; Sp. p. 3661; Gaz. vol. 154; p. 617.
How, Benjamin V., Weston, assignor to Arbecam Nautical Instrument Co., Boston, Mass. Cross-bearing alidade. No. 965,462; July 26; Sp. p. 5322; Gaz. vol. 156; p. 909.
Howard, Aben G., Holdrege, Nebr. Hoof-trimmer. No. 949,796; Feb. 22; Sp. p. 4215; Gaz. vol. 151; p. 761.
Howard, Aben G., Holdrege, Nebr. Attachment for telephones. No. 956,530; May 3; Sp. p. 44; Gaz. vol. 154; p. 10.
Howard Automatic Railway Switch Company, The. (See Howard, Emmett, assignor.)
Howard, Charles O. (See Frayer and Howard.) (Reissue.)
Howard, Charles R., Rosendale, N. Y. Safety-track for railways. No. 979,494; Dec. 27; Sp. p. 4477; Gaz. vol. 161; p. 791.
Howard, Clarence H., and H. M. Pflager, assignors to Double Body Bolster Company, St. Louis, Mo. Railroad-car brake. No. 966,446; Aug. 9; Sp. p. 1269; Gaz. vol. 157; p. 228.
Howard, Cora I., Lynchburg, Va. Sunshade. No. 971,503; Sept. 27; Sp. p. 4960; Gaz. vol. 158; p. 868.
Howard, Emmett, assignor to The Howard Automatic Railway Switch Company, Eugene, Oreg. Automatic railway-switch. No. 960,017; May 31; Sp. p. 7793; Gaz. vol. 154; p. 1311.
Howard, Emmett, assignor to The Howard Automatic Railway Switch Co., Eugene, Oreg. Automatic railway-switch. No. 979,166; Dec. 20; Sp. p. 3810; Gaz. vol. 161; p. 660.
Howard, Frank E., Hartford, Conn., assignor to James L. Howard & Company. Door-latch. No. 945,540; Jan. 4; Sp. p. 1151; Gaz. vol. 150; p. 178.
Howard, Frank H. (See Morris and Kennedy, assignors.)
Howard, Frank H., Reading, Pa. Lining journal-bearings. No. 960,328; June 7; Sp. p. 175; Gaz. vol. 155; p. 32.
Howard, H. P. (See Jones, John D., assignor.)
Howard, Henry, Boston, Mass. Treating iron or steel articles. No. 949,575; Feb. 15; Sp. p. 3764; Gaz. vol. 151; p. 654.
Howard, Henry, Boston, Mass. Fume-arrester. (Reissue.) No. 13,090; Mar. 8; Sp. p. 2700; Gaz. vol. 152; p. 466.
Howard, Henry, Boston, Mass. Oxidizing atmospheric nitrogen. No. 952,248; Mar. 15; Sp. p. 3596; Gaz. vol. 152; p. 647.
Howard, Henry, Boston, Mass. Making formic acid. No. 960,927; June 7; Sp. p. 1368; Gaz. vol. 155; p. 230.
Howard, Henry, Boston, Mass. Separating dust from gases. No. 970,053; Sept. 13; Sp. p. 1973; Gaz. vol. 158; p. 335.
Howard, Henry, Boston, Mass. Formic acid. No. 975,866; Nov. 15; Sp. p. 3945; Gaz. vol. 160; p. 664.
Howard, Henry, Brookline, Mass. Making formates and formic acid. No. 970,825; Sept. 20; Sp. p. 3634; Gaz. vol. 158; p. 620.
Howard, James F., Spokane, Wash. Lock-alarm. No. 956,580; May 3; Sp. p. 158; Gaz. vol. 154; p. 27.
Howard, John B., St. John, Kans. Pruning implement. No. 974,149; Nov. 1; Sp. p. 83; Gaz. vol. 160; p. 17.
Howard, Jorgen. (See Tweet, Nels, assignor.)
Howard, Lemuel F., Edgewood Park, Pa., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway signaling system. No. 955,402; Apr. 19; Sp. p. 3694; Gaz. vol. 153; p. 649.

Alphabetical list of patentees—Continued.

Howard, Lemuel F., Edgewood Park, assignor to The Union Switch and Signal Company, Swissvale, Pa. Alternating-current-translating device. No. 960,553; June 7; Sp. p. 646; Gaz. vol. 155; p. 105.
Howard, Lincoln, Savannah, Mo. Hot-air furnace. No. 953,465; Mar. 29; Sp. p. 6212; Gaz. vol. 152; p. 1114.
Howard, Mentor, Corvallis, Oreg. Dental articulator. No. 968,055; Aug. 23; Sp. p. 4703; Gaz. vol. 157; p. 822.
Howard Miniature Lamp Company. (See Plass, Herbert E., assignor.)
Howard, Orange M., Kansas City, Mo. Type holder or clamp. No. 955,802; Apr. 19; Sp. p. 4546; Gaz. vol. 153; p. 785.
Howard, Orville, Bay City, Mich. Mail-bag deliverer. No. 974,489; Nov. 1; Sp. p. 957; Gaz. vol. 160; p. 142.
Howard, Perkins E., Wichita, Kans. Door-hinge. No. 974,794; Nov. 8; Sp. p. 1617; Gaz. vol. 160; p. 272.
Howard, Thomas J., New Orleans, La. Sugar-cane loader. No. 973,433; Oct. 18; Sp. p. 4231; Gaz. vol. 159; p. 720.
Howard, Tilton W. (See Barry and Epler, assignors.)
Howarth, Albert, assignor to Star Carburetor & Supply Company, Providence, R. I. Carbureter. No. 954,630; Apr. 12; Sp. p. 2001; Gaz. vol. 153; p. 353.
Howarth, Albert, assignor, by mesne assignments, to Star Carburetor and Supply Company, Providence, R. I. Carbureter. No. 958,128; May 17; Sp. p. 3662; Gaz. vol. 154; p. 618.
Howatt, David E., East Cleveland, Ohio. Ditching-machine. No. 954,677; Apr. 12; Sp. p. 2109; Gaz. vol. 153; p. 370.
Howatt, David E., Willoughby, Ohio. Milking device. No. 961,446; June 14; Sp. p. 2480; Gaz. vol. 155; p. 436.
Howatt, David E., Willoughby, Ohio. Manure-spreader. No. 967,522; Aug. 16; Sp. p. 3613; Gaz. vol. 157; p. 620.
Howd, Joel J., Burnside, Ill. Attachable manure-spreader. No. 963,896; July 12; Sp. p. 1941; Gaz. vol. 156; p. 319.
Howden, James, Glasgow, Scotland. Screw-propeller. No. 945,237; Jan. 4; Sp. p. 484; Gaz. vol. 150; p. 79.
Howe, Arthur C., Waterville, Wash. Wrench. No. 961,447; June 14; Sp. p. 2482; Gaz. vol. 155; p. 436.
Howe, Charles E., Summit, N. J., assignor to Sweet, Orr & Company, Newburgh, N. Y. Overalls-suspenders loop. No. 961,718; June 14; Sp. p. 3039; Gaz. vol. 155; p. 527.
Howe, Charles H. (See Williams, Alfred, assignor.)
Howe, Charles W., Detroit, Mich. Fountain marking-brush. No. 950,483; Mar. 1; Sp. p. 41; Gaz. vol. 152; p. 9.
Howe and Davidson Company. (See Davidson, Frank B., assignor.)
Howe, George W. (See Hopper, John S., assignor.)
Howe, Harvey E. (See Howe, John B. and H. E.)
Howe, Harvey E., Windber, Pa. Section-breaker. No. 950,922; Mar. 1; Sp. p. 960; Gaz. vol. 152; p. 154.
Howe, Henry M., Bedford, N. Y., assignor to Taylor Iron and Steel Company, High Bridge, N. J. Making manganese steel. No. 954,188; Apr. 5; Sp. p. 1044; Gaz. vol. 153; p. 177.
Howe, Hobert H., South Walpole, Mass. Rake attachment for hay-wagons. No. 965,110; July 19; Sp. p. 4563; Gaz. vol. 156; p. 761.
Howe, Isaac H. (See Smith, Alfred E., assignor.)
Howe, John, assignor of one-half to himself and one-half to J. Blumer, New York, N. Y. Cork and bung cutter. No. 969,535; Sept. 6; Sp. p. 823; Gaz. vol. 158; p. 130.
Howe, John B., Nashville, Tenn. Ice-making apparatus. No. 969,696; Sept. 6; Sp. p. 1145; Gaz. vol. 158; p. 185.
Howe, John B., Nashville, Tenn. Ice-making apparatus. No. 973,434; Oct. 18; Sp. p. 4235; Gaz. vol. 159; p. 721.
Howe, John B. and H. E., Windber, Pa. Section-breaker. No. 949,537; Feb. 15; Sp. p. 3690; Gaz. vol. 151; p. 641.
Howe, John P. (See Dawes, Charles, assignor.)
Howe, Jonathan. (See Lawson and Howe.)
Howe, Percy Y., Yonkers, N. Y. Adjustable-rack reversible developing-tank. No. 958,500; May 17; Sp. p. 4561; Gaz. vol. 154; p. 748.
Howe, William F., Chicago, Ill. Dredge. No. 968,356; Aug. 23; Sp. p. 5368; Gaz. vol. 157; p. 926.
Howe, William F., Chicago, Ill. Dredge. No. 973,866; Oct. 25; Sp. p. 5142; Gaz. vol. 159; p. 894.
Howe, William G., Butler, Ind. Trench-filling apparatus. No. 978,886; Dec. 20; Sp. p. 3147; Gaz. vol. 161; p. 559.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Polarized relay. No. 960,928; June 7; Sp. p. 1370; Gaz. vol. 155; p. 231.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Semaphore mechanism. No. 962,960; June 28; Sp. p. 5701; Gaz. vol. 155; p. 999.
Howe, Winthrop K., assignor to General Railway Signal Company, Buffalo, N. Y. Apparatus for operating railway-signals. No. 969,281; Sept. 6; Sp. p. 273; Gaz. vol. 158; p. 45.
Howell, Charles T., Glen Flora, Wis. Fence-post. No. 957,677; May 10; Sp. p. 2506; Gaz. vol. 154; p. 433.
Howell, Charles W., Newark, N. J. Type-writing machine. No. 973,352; Oct. 18; Sp. p. 4052; Gaz. vol. 159; p. 693.
Howell, Charles W., Newark, N. J. Type-writing machine. No. 974,383; Nov. 1; Sp. p. 685; Gaz. vol. 160; p. 104.
Howell, Chester A., Des Moines, Iowa. Lamp supporting and turning mechanism. No. 979,495; Dec. 27; Sp. p. 4478; Gaz. vol. 161; p. 791.
Howell, Edward B., Butte, Mont. Gage. No. 963,150; July 5; Sp. p. 319; Gaz. vol. 156; p. 44.
Howell, Florence S. (See Howell, Lewis O., assignor.)
Howell, Fred B., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 956,855; May 3; Sp. p. 780; Gaz. vol. 154; p. 123.
Howell, James W., Fort Worth, Tex. Cotton-chopper. No. 946,673; Jan. 18; Sp. p. 3715; Gaz. vol. 150; p. 621.
Howell, John W., Newark, N. J., assignor to General Electric Company. Manufacturing filaments for incandescent lamps. No. 955,461; Apr. 19; Sp. p. 3811; Gaz. vol. 153; p. 669.
Howell, Lewis O., assignor to F. S. Howell, Philadelphia, Pa. Combined pneumatic cleaner and force-cup. No. 975,527; Nov. 15; Sp. p. 3232; Gaz. vol. 160; p. 551.
Howell, William N., Philadelphia, Pa., assignor to S. Lake, Bridgeport, Conn. Periscope. No. 959,013; May 24; Sp. p. 5638; Gaz. vol. 154; p. 948.
Howick, James M. (See Lutz, Benjamin F., assignor.)
Howie, W. C., administrator. (See Durant and Gunderson.)
Howieson, John T., New York, N. Y. Calculating-machine. No. 946,366; Jan. 11; Sp. p. 2970; Gaz. vol. 150; p. 493.
Howland, Arthur H., Worcester, Mass., assignor to E. M. Howland, New York, N. Y. Auger. No. 955,803; Apr. 19; Sp. p. 4548; Gaz. vol. 153; p. 786.
Howland, Chauncey W., assignor to The Standard Optical Company, Geneva, N. Y. Screw-finishing machine. No. 979,006; Dec. 20; Sp. p. 3430; Gaz. vol. 161; p. 602.
Howland, Chauncey W., assignor to The Standard Optical Company, Geneva, N. Y. Lens-drilling machine. No. 979,007; Dec. 20; Sp. p. 3432; Gaz. vol. 161; p. 603.
Howland, Edward B., Sandwich, Mass. Corset-clasp. No. 977,390; Nov. 29; Sp. p. 7291; Gaz. vol. 160; p. 1238.
Howland, Ella M. (See Howland, Arthur H., assignor.)
Howland, Percy C., Rockford, Ill. Pan. No. 948,994; Feb. 15; Sp. p. 2556; Gaz. vol. 151; p. 460.
Howland, William M., Eckington, D. C. Window cold-air refrigerator. No. 975,954; Nov. 15; Sp. p. 4116; Gaz. vol. 160; p. 695.
Howler Manufacturing Co., The. (See Cochran, Wesley E., assignor.)
Howson, Henry, assignor to The J. G. Brill Company, Philadelphia, Pa. Car-platform door and step guard. No. 977,310; Nov. 29; Sp. p. 7112; Gaz. vol. 160; p. 1210.
Howze, James M., Stephenville, Tex. Oil-burner. No. 975,244; Nov. 8; Sp. p. 2646; Gaz. vol. 160; p. 427.
Hoxie, Charles A., Schenectady, N. Y. Testing set. No. 952,741; Mar. 22; Sp. p. 4641; Gaz. vol. 152; p. 843.
Hoxie, Hall F., Brooklyn, N. Y., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Section-insulator for electric lines. No. 946,546; Jan. 18; Sp. p. 3455; Gaz. vol. 150; p. 581.
Hoxie, Vernon, Adrian, Mich. Staple forming and discharging mechanism. No. 948,448; Feb. 8; Sp. p. 1403; Gaz. vol. 151; p. 250.
Hoxie, Vernon, Adrain, Mich. Staple forming and discharging mechanism. No. 948,699; Feb. 8; Sp. p. 1951; Gaz. vol. 151; p. 334.
Hoxworth, Edwin, assignor of one-half to G. H. Patrick, Waco, Tex. Combined shade and curtain bracket support and shade-guide. No. 951,440; Mar. 8; Sp. p. 1989; Gaz. vol. 152; p. 346.
Hoy, Michael J., Worcester, Mass. Elevator safety device. No. 949,274; Feb. 15; Sp. p. 3129; Gaz. vol. 151; p. 552.
Hoyer, Anton, Chicago, Ill. Music-leaf turner. No. 972,861; Oct. 18; Sp. p. 2943; Gaz. vol. 159; p. 522.
Hoyer, David A., Philadelphia, Pa. Non-refillable bottle. No. 945,541; Jan. 4; Sp. p. 1154; Gaz. vol. 150; p. 178.
Hoyer, Julius W., St. Louis, Mo., assignor to Mississippi Wire Glass Company, New York, N. Y. Method of and machine for making wire-glass. No. 959,537; May 31; Sp. p. 6738; Gaz. vol. 154; p. 1147.
Hoyer, N. O., *et al.* (See Waterman, Charlie H., assignor.)
Hoyer, Rudolph C., Montgomery, Ala. Seal. No. 966,749; Aug. 9; Sp. p. 1993; Gaz. vol. 157; p. 332.
Hoyle, William H., and T. Barker, Bolton, England. Elongating-machine. No. 977,191; Nov. 29; Sp. p. 6894; Gaz. vol. 160; p. 1170.
Hoyt, Charles C., Brookline, Mass. Display device. No. 971,751; Oct. 4; Sp. p. 508; Gaz. vol. 159; p. 88.
Hoyt, Charles H., New York, N. Y. Bookbinder. No. 977,873; Dec. 6; Sp. p. 988; Gaz. vol. 161; p. 155.
Hoyt, Damon, and L. A. Burke, Brockton, Mass. Moccasin. No. 972,194; Oct. 11; Sp. p. 1488; Gaz. vol. 159; p. 265.
Hoyt, Eugene W., Decorah, Iowa. Valve. No. 952,043; Mar. 15; Sp. p. 3217; Gaz. vol. 152; p. 579.
Hoyt, Eugene W., Decorah, Iowa. Sliding gate-valve. No. 973,435; Oct. 18; Sp. p. 4237; Gaz. vol. 159; p. 721.
Hoyt, Ezra S., San Luis Obispo, assignor to Black Sand Mining Company, Los Angeles, Cal. Amalgamating-riffle. No. 963,005; June 28; Sp. p. 5791; Gaz. vol. 155; p. 1014.

Alphabetical list of patentees—Continued.

Hoyt, Frank A., Gordon, Nebr. Hose-drier. No. 976,656; Nov. 22; Sp. p. 5683; Gaz. vol. 160; p. 961.
Hoyt, Guy L., New York, assignor to Robert Gair Company, Brooklyn, N. Y. Bag-filling machine. No. 977,632; Dec. 6; Sp. p. 481; Gaz. vol. 161; p. 73.
Hoyt, Guy L., New York, assignor to Robert Gair Company, Brooklyn, N. Y. Bag-feeding mechanism. No. 978,887; Dec. 20; Sp. p. 3148; Gaz. vol. 161; p. 559.
Hoyt, John C., Kansas City, Mo. Bath-cabinet. No. 959,743; May 31; Sp. p. 7162; Gaz. vol. 154; p. 1215.
Hoyt, Matthew L., assignor to D. H. Burrell & Co., Little Falls, N. Y. Centrifugal liquid-separator. No. 950,331; Feb. 22; Sp. p. 5405; Gaz. vol. 151; p. 948.
Hoyt, Roscoe, New York, N. Y. Packaging-machine. No. 952,331; Mar. 15; Sp. p. 3769; Gaz. vol. 152; p. 675.
Hoyt, Roscoe, New York, N. Y. Dividing apparatus. No. 970,826; Sept. 20; Sp. p. 3635; Gaz. vol. 158; p. 620.
Hradilek, Henry, Cleveland, Ohio. Building-block. No. 973,785; Oct. 25; Sp. p. 4976; Gaz. vol. 159; p. 865.
Hren, Joseph, Brooklyn, N. Y. Automatic paper-feeder. No. 951,074; Mar. 1; Sp. p. 1235; Gaz. vol. 152; p. 203.
Hrivnák, John, and J. Batos, Blair Station, Pa. Automatic gas-valve. No. 958,506; May 17; Sp. p. 4572; Gaz. vol. 154; p. 750.
Hubbard, Albert B., Fruitvale, and S. J. Bens, Berkeley, Cal. Toilet-paper holder. No. 960,929; June 7; Sp. p. 1371; Gaz. vol. 155; p. 231.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. System of electrical distribution. No. 946,045; Jan. 11; Sp. p. 2297; Gaz. vol. 150; p. 382.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. System of electrical distribution. No. 952,332; Mar. 15; Sp. p. 3775; Gaz. vol. 152; p. 675.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 956,353; Apr. 26; Sp. p. 5779; Gaz. vol. 152; p. 1005.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Dynamo-electric machine. No. 970,827; Sept. 20; Sp. p. 3638; Gaz. vol. 158; p. 621.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 972,536; Oct. 11; Sp. p. 2222; Gaz. vol. 159; p. 384.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 976,878; Nov. 29; Sp. p. 6152; Gaz. vol. 160; p. 1060.
Hubbard, Albert S., Greenwich, Conn., assignor to Gould Storage Battery Company. System of electrical distribution. No. 974,063; Oct. 25; Sp. p. 5551; Gaz. vol. 159; p. 962.
Hubbard, Arthur O., Minneapolis, Minn. Wheelbarrow. No. 961,719; June 14; Sp. p. 3041; Gaz. vol. 155; p. 527.
Hubbard, Bert S., Oakland, assignor to The Union Telegraph Company, San Francisco, Cal. Loose-leaf binder. No. 971,007; Sept. 20; Sp. p. 3962; Gaz. vol. 158; p. 678.
Hubbard, Frank B., Middlefield, Ohio. Cylinder-lubricator. No. 948,882; Feb. 8; Sp. p. 2319; Gaz. vol. 151; p. 395.
Hubbard, Fred W. (See Stansill, Doty, and Hubbard.)
Hubbard, George M., assignor to The W. & E. T. Fitch Co., New Haven, Conn. Buckle. No. 946,917; Jan. 18; Sp. p. 4304; Gaz. vol. 150; p. 706.
Hubbard, George M., assignor to The W. & E. T. Fitch Co., New Haven, Conn. Snap-hook. No. 959,744; May 31; Sp. p. 7164; Gaz. vol. 154; p. 1216.
Hubbard, George W., Cockeysville, Md. Trotting-sulky. No. 970,828; Sept. 20; Sp. p. 3640; Gaz. vol. 158; p. 621.
Hubbard, Joel D. (See Pelham, Joseph, assignor.)
Hubbard, Lucius S., Samoa, assignor of one-half to C. A. Nicholson, South Bay, Cal. Piano-truck. No. 968,564; Aug. 30; Sp. p. 5814; Gaz. vol. 157; p. 1023.
Hubbard, Melvin H., Utica, N. Y. Elimination of coloring-matter from paper-stock. No. 977,013; Nov. 29; Sp. p. 6497; Gaz. vol. 160; p. 1108.
Hubbard, Richard W., Ashtabula, Ohio. Door-check. No. 945,461; Jan. 4; Sp. p. 968; Gaz. vol. 150; p. 152.
Hubbard, Richard W., Ashtabula, Ohio. Cable-hanger. No. 953,951; Apr. 5; Sp. p. 526; Gaz. vol. 153; p. 95.
Hubbell, Harvey, Bridgeport, Conn. Insulating-chain for pull-switches. No. 946,779; Jan. 18; Sp. p. 3949; Gaz. vol. 150; p. 657.
Hubbell, Harvey, Bridgeport, Conn. Socket-shell-cap fastening. No. 947,547; Jan. 25; Sp. p. 5685; Gaz. vol. 150; p. 944.
Hubbell, Harvey, Bridgeport, Conn. Lock-guard for incandescent lamps. No. 953,834; Apr. 5; Sp. p. 300; Gaz. vol. 153; p. 54.
Hubbell, Harvey, Bridgeport, Conn. Lock-guard for incandescent lamps and sockets. No. 954,963; Apr. 12; Sp. p. 2778; Gaz. vol. 153; p. 470.
Hubbell, Harvey, Bridgeport, Conn. Chain-guide for pull-sockets. No. 956,354; Apr. 26; Sp. p. 5785; Gaz. vol. 153; p. 1006.
Hubbell, Harvey, Bridgeport, Conn. Self-closing flush-receptacle plate. No. 961,720; June 14; Sp. p. 3042; Gaz. vol. 155; p. 527.
Hubbell, Harvey, Bridgeport, Conn. Shade-holder. No. 964,519; July 19; Sp. p. 3239; Gaz. vol. 156; p. 559.
Hubbell, Harvey, Bridgeport, Conn. Shade-holder. No. 964,520; July 19; Sp. p. 3239; Gaz. vol. 156; p. 559.
Hubbell, Harvey, Bridgeport, Conn. Adjustable reflector for electric lamps. No. 964,646; July 19; Sp. p. 3525; Gaz. vol. 156; p. 602.
Hubbell, Harvey, Bridgeport, Conn. Separable attachment-plug. No. 964,863; July 19; Sp. p. 4073; Gaz. vol. 156; p. 679.
Hubbell, Lindley D., assignor to The Pope Manufacturing Company, Hartford, Conn. Change-speed mechanism. No. 968,849; Aug. 30; Sp. p. 6426; Gaz. vol. 157; p. 1120.
Hubbell, Vincent B. (See Burt, Alonzo, assignor.)
Hubbert, Bernhart H., Highlandtown, Md. Vapor-extractor for use in treating whisky-barrels. No. 950,449; Feb. 22; Sp. p. 5618; Gaz. vol. 151; p. 985.
Huber, Adolf, assignor to Kunheim and Co., Berlin, Germany. Pyrophoric metallic substance. No. 967,775; Aug. 16; Sp. p. 4115; Gaz. vol. 157; p. 705.
Huber, Charles F., Omaha, Nebr. Water-filter. No. 967,776; Aug. 16; Sp. p. 4116; Gaz. vol. 157; p. 705.
Huber, Clemence, Streator, Ill. Can-top fastener and opener. No. 978,585; Dec. 13; Sp. p. 2547; Gaz. vol. 161; p. 434.
Huber, Edward, Newport, Ky. Horseshoe-calk. No. 957,212; May 10; Sp. p. 1541; Gaz. vol. 154; p. 273.
Huber, Edward H. (See Leonard, Leon E., assignor.)
Huber, Frank H., Glidden, Wis. Cement-block machine. No. 964,257; July 12; Sp. p. 2671; Gaz. vol. 156; p. 440.
Huber, Frank H., Glidden, Wis. Mold for cement blocks. No. 964,258; July 12; Sp. p. 2673; Gaz. vol. 156; p. 440.
Huber, Otto, Rock Island, assignor to Schneible Company, Chicago, Ill. Manufacture of fermented liquors. No. 950,791; Mar. 1; Sp. p. 715; Gaz. vol. 152; p. 114.
Huber, Tony. (See Peugeot, Huber, and Lostalot.)
Hubers, Albert W., Baltimore, Md. Lock for elevator-doors. No. 973,275; Oct. 18; Sp. p. 3894; Gaz. vol. 159; p. 666.
Hubert-Brierre, Alfred M., Paris, France. Apparatus for stretching cloth on billiard-tables. No. 976,570; Nov. 22; Sp. p. 5508; Gaz. vol. 160; p. 931.
Hubert, Conrad. (See Day, Albert V. T., assignor.)
Hubert, Frank, New York, N. Y. Dust-pan. No. 956,968; May 3; Sp. p. 1027; Gaz. vol. 154; p. 161.
Hubert, Louis J. F., Leipzig, Germany. Collar-stud. No. 973,506; Oct. 25; Sp. p. 4395; Gaz. vol. 159; p. 768.
Hubert, Louis J. F., Leipzig, Germany. Necktie and collar fastening. No. 976,177; Nov. 22; Sp. p. 4611; Gaz. vol. 160; p. 793.
Hubert, Philip G., Los Angeles, Cal. Oil-burner. No. 976,367; Nov. 22; Sp. p. 5059; Gaz. vol. 160; p. 859.
Huberth, Alexander, Hammond, Ind. Nutcracker. No. 964,259; July 12; Sp. p. 2676; Gaz. vol. 156; p. 441.
Huberth, Alexander, Hammond, Ind. Skate. No. 973,786; Oct. 25; Sp. p. 4978; Gaz. vol. 159; p. 865.
Hublinger, Newton, Akron, Ohio. Outlet-bracket for electric fixtures. No. 950,176; Feb. 22; Sp. p. 5089; Gaz. vol. 151; p. 894.
Hübner, Robert, assignor to F. Schwyzer, New York, N. Y. Caffein-free coffee. No. 947,577; Jan. 25; Sp. p. 5746; Gaz. vol. 150; p. 955.
Hückel, Hugo, Neutitschein, Austria-Hungary. Blade-feathering mechanism for propellers and the like. No. 974,490; Nov. 1; Sp. p. 958; Gaz. vol. 160; p. 142.
Hucker, Henry C., *et al.* (See Anson, Warren J., assignor.)
Huckstep, Francis B., Des Moines, Iowa. Railway-tie. No. 968,515; Aug. 23; Sp. p. 5695; Gaz. vol. 157; p. 981.
Huckstra, George, Shadeland, Ind. Game apparatus. No. 960,930; June 7; Sp. p. 1373; Gaz. vol. 155; p. 231.
Huddart, Edmund, Barneston, Nebr. Cuspidor-cleaner. No. 956,641; May 3; Sp. p. 286; Gaz. vol. 154; p. 48.
Huddle, Calhoun D. (See Huddle, John H. and C. D.)
Huddle, Calhoun D., Draper, Va. Attachment for lamp-chimneys. No. 965,523; July 26; Sp. p. 5472; Gaz. vol. 156; p. 931.
Huddle, Herschel J., Jersey City, N. J. Pen and pencil holder. No. 974,887; Nov. 8; Sp. p. 1826; Gaz. vol. 160; p. 304.
Huddle, John H. and C. D., East Radford, assignors of one-third to E. T. Pratt, Draper, Va. Reel for harvesters. No. 952,249; Mar. 15; Sp. p. 3597; Gaz. vol. 152; p. 647.
Huden, Thomas P., North Bend, Oreg. Gas-engine-valve timer. No. 959,345; May 24; Sp. p. 6331; Gaz. vol. 154; p. 1058.
Hudgins, Charles F., Norfolk, Va., assignor of one-half to F. M. Phillips, Washington, D. C. Fastening for life-boat covers. No. 969,628; Sept. 6; Sp. p. 1017; Gaz. vol. 158; p. 163.
Hudnall, Charles F., Richmond, Va. Binder for loose leaves. No. 947,911; Feb. 1; Sp. p. 277; Gaz. vol. 151; p. 46.
Hudnall, Charles F., Richmond, Va. Manifolding account-keeping apparatus. No. 960,931; June 7; Sp. p. 1374; Gaz. vol. 155; p. 232.
Hudson, Alexander M., New York, N. Y. Speed-indicator. No. 960,329; June 7; Sp. p. 176; Gaz. vol. 155; p. 32.
Hudson, Charles D., Anderson, S. C. Non-refillable bottle. No. 969,697; Sept. 6; Sp. p. 1150; Gaz. vol. 158; p. 186.

Alphabetical list of patentees—Continued.

Hudson, Charles E., Leominster, Mass. Folding index. No. 963,442; July 5; Sp. p. 964; Gaz. vol. 156; p. 144.
Hudson, Daniel L., Chicago, Ill. Shoe-polishing machine. No. 958,400; May 17; Sp. p. 4369; Gaz. vol. 154; p. 713.
Hudson, Everett, Los Angeles, Cal. Step-ladder. No. 947,409; Jan. 25; Sp. p. 5359; Gaz. vol. 150; p. 898.
Hudson, Francis, Holyoke, Mass. Trolley-wheel-turning machine. No. 960,932; June 7; Sp. p. 1377; Gaz. vol. 155; p. 232.
Hudson, Harold C., administrator. (See Keith, Thomas K.)
Hudson, Harry L., New York, N. Y. Box. No. 966,919; Aug. 9; Sp. p. 2360; Gaz. vol. 157; p. 386.
Hudson, John F., Radium, Colo. Track-binder. No. 970,054; Sept. 13; Sp. p. 1975; Gaz. vol. 158; p. 335.
Hudson, Lee O., assignor of one-half to C. L. Keeslar, Altus, Okla. Crude-oil burner. No. 974,795; Nov. 8; Sp. p. 1618; Gaz. vol. 160; p. 272.
Hudson, Robert F., assignor to The Premium Register Company, Inc., Richmond, Va. Prize-awarding advertising apparatus. No. 976,079; Nov. 15; Sp. p. 4342; Gaz. vol. 160; p. 738.
Hudson Stick Candy Machine Co. (See Camp and Eubanks, assignors.)
Hudson, Thomas J., Sutton, W. Va., assignor of one-half to W. W. Scott, Washington, D. C. Dumping ash-pan. No. 955,072; Apr. 12; Sp. p. 2979; Gaz. vol. 153; p. 505.
Hudson, Wm. A., *et al.* (See Curran, John H., assignor.)
Hudson, Zeno, Chicago, Ill. Combination pocket-case. No. 971,892; Oct. 4; Sp. p. 818; Gaz. vol. 159; p. 141.
Huebler, Ernst, Dresden, Germany. Apparatus for the production of fringes. No. 970,055; Sept. 13; Sp. p. 1977; Gaz. vol. 158; p. 335.
Huebner, George, Lagrange, Tex. Tent-frame. No. 974,491; Nov. 1; Sp. p. 959; Gaz. vol. 160; p. 142.
Huebner, Walter C., Johnstown, Pa. Headlight. No. 960,018; May 31; Sp. p. 7796; Gaz. vol. 154; p. 1312.
Huebner, William C., assignor of one-half to G. Bleistein, Buffalo, N. Y. Photographic-printing apparatus. No. 954,290; Apr. 5; Sp. p. 1264; Gaz. vol. 153; p. 209.
Huebner, William C., assignor of one-half to G. Bleistein, Buffalo, N. Y. Photographic-printing apparatus. No. 954,291; Apr. 5; Sp. p. 1267; Gaz. vol. 153; p. 210.
Huebner, William C., assignor of one-half to G. Bleistein, Buffalo, N. Y. Photographic-printing apparatus. No. 954,292; Apr. 5; Sp. p. 1273; Gaz. vol. 153; p. 210.
Huebsch, Joseph, Milwaukee, Wis. Hosiery form and holder. No. 971,844; Oct. 4; Sp. p. 700; Gaz. vol. 159; p. 123.
Huebsch, Joseph, Milwaukee, Wis. Valve. No. 978,752; Dec. 13; Sp. p. 2890; Gaz. vol. 161; p. 489.
Hueg, Herman F. W., Long Island City, N. Y. Roll-making machine. No. 956,099; Apr. 26; Sp. p. 5224; Gaz. vol. 153; p. 919.
Huenefeld, Walter E., assignor to The E. H. Huenefeld Co., Cincinnati, Ohio. Portable knockdown oven. No. 964,914; July 19; Sp. p. 4176; Gaz. vol. 156; p. 697.
Huenefeld, Walter E., assignor to The E. H. Huenefeld Company, Cincinnati, Ohio. Oven-door. No 965,906; Aug. 2; Sp. p. 127; Gaz. vol. 157; p. 22.
Huenefeld, Walter E., assignor to The E. H. Huenfeld Company, Cincinnati, Ohio. Oven-door. No. 966,017; Aug. 2; Sp. p. 379; Gaz. vol. 157; p. 60.
Huenefeld, Walter E., assignor to The E. H. Huenefeld Company, Cincinnati, Ohio. Door for ovens. No. 966,018; Aug. 2; Sp. p. 380; Gaz. vol. 157; p. 60.
Huethwohl, Louis, New York, N. Y. Bottle-closure. No. 978,164; Dec. 13; Sp. p. 1623; Gaz. vol. 161; p. 287.
Huey, John H., Tarentum, assignor of one-half to W. F. Heinle, Natrone, Pa. Controller for street-cars. No. 956,355; Apr. 26; Sp. p. 5785; Gaz. vol. 153; p. 1006.
Huey, Robert C., Hortons, Pa. Grafting. No. 971,536; Oct. 4; Sp. p. 52; Gaz. vol. 159; p. 12.
Hufey, Mabel I., Glendive, Mont. Stationery. No. 962,961; June 28; Sp. p. 5703; Gaz. vol. 155; p. 999.
Huff, Charles W., Pittsburg, Pa. Mop. No. 963,566; July 5; Sp. p. 1210; Gaz. vol. 156; p. 186.
Huff, Dwight H., Fredonia, N. Y. Combined baby-carriage and sleigh. No. 954,631; Apr. 12; Sp. p. 2005; Gaz. vol. 153; p. 353.
Huff Electrostatic Separator Company. (See MacGregor, Frank S., assignor.)
Huff Electrostatic Separator Company. (See Wentworth, Henry A., assignor.)
Huff, Hiram C., Vegreville, Alberta, Canada. Draft appliance. No. 968,662; Aug. 30; Sp. p. 6026; Gaz. vol. 157; p. 1058.
Huff, John S., New Brighton, Pa. Christmas-tree holder. No. 958,644; May 17; Sp. p. 4843; Gaz. vol. 154; p. 795.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Foot-rest for motor-vehicles. No. 961,860; June 21; Sp. p. 3377; Gaz. vol. 155; p. 598.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-vehicle-lubricating means. No. 962,509; June 28; Sp. p. 4790; Gaz. vol. 155; p. 844.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Friction-clutch. No. 963,044; July 5; Sp. p. 31; Gaz. vol. 156; p. 7.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-engine ignition system. No. 873,507; Oct. 25; Sp. p. 4396; Gaz. vol. 159; p. 769.
Huff, William J., Toronto, Ontario, Canada. Fire-escape. No. 966,447; Aug. 9; Sp. p. 1271; Gaz. vol. 157; p. 228.
Huffman, Coyle S., Ashland, Ohio. Canopy attachment for hammocks. No. 969,956; Sept. 13; Sp. p. 1749; Gaz. vol. 158; p. 300.
Huffman, Daniel B., White, Idaho. Vegetable-cutter. No. 968,663; Aug. 30; Sp. p. 6028; Gaz. vol. 157; p. 1058.
Huffman, David A., Paris, Ill. Show-case. No. 966,019; Aug. 2; Sp. p. 381; Gaz. vol. 157; p. 60.
Huffman, George W., Buckhorn, Mo. Horse-releaser. No. 957,340; May 10; Sp. p. 1829; Gaz. vol. 154; p. 318.
Huffman, Louis, Toronto, Ontario, Canada. Impression apparatus. No. 946,224; Jan. 11; Sp. p. 2664; Gaz. vol. 150; p. 443.
Huffman, Mike, assignor of one-half to L. A. Cranston, Gibson City, Ill. Sediment-remover for steam-boilers. No. 974,064; Oct. 25; Sp. p. 5555; Gaz. vol. 159; p. 962.
Huffman, Thadeus E., and I. E. Hammett, Hamlin, Tex. Stack-pipe protector. No. 972,378; Oct. 11; Sp. p. 1870; Gaz. vol. 159; p. 328.
Huffman, Willard M. (See Long, Thomas, assignor.)
Huffmon, Oscar, Pactolus, Ky. Flow-cleaner. No. 959,538; May 31; Sp. p. 6740; Gaz. vol. 154; p. 1147.
Hufschmidt, Milton S., San Francisco, Cal. Sink-stopple. No. 962,570; June 28; Sp. p. 4941; Gaz. vol. 155; p. 865.
Hugendubel, Ernst, Stuttgart, Germany. Umbrella. No. 965,818; July 26; Sp. p. 6097; Gaz. vol. 156; p. 1034.
Huggins, Edward M., Philadelphia, Pa. Molding-machine counterbalance. No. 948,975; Feb. 8; Sp. p. 2512; Gaz. vol. 151; p. 427.
Huggins, Fred, West Granby, Conn. Piano-tuning appliance. No. 977,094; Nov. 29; Sp. p. 6666; Gaz. vol. 160; p. 1135.
Huggins, Thompson A., Anson, Tex. Churn. No. 948,546; Feb. 8; Sp. p. 1610; Gaz. vol. 151; p. 283.
Hughes, Albert J., St. Paul, Minn. Mail catching and delivering device. No. 962,571; June 28; Sp. p. 4943; Gaz. vol. 155; p. 865.
Hughes, Alexander, Jr., Fort Lee, N. J. Hinge. No. 974,492; Nov. 1; Sp. p. 960; Gaz. vol. 160; p. 143.
Hughes, Anthony. (See Loftus, John, assignor.)
Hughes, Archelaus M., *et al.* (See Webster, Hyleman A., assignor.)
Hughes, Arthur S., Mansfield, Ohio. Display-rack. No. 953,205; Mar. 29; Sp. p. 5651; Gaz. vol. 152; p. 1026.
Hughes, Charles A., Sycamore, Pa. Hay-press. No. 976,368; Nov. 22; Sp. p. 5061; Gaz. vol. 160; p. 859.
Hughes, Charles C. (See Hughes, Easter M. and C. C.)
Hughes, Charles M., assignor to W. I. Hamilton, Newark, N. J. Phonograph. No. 948,328; Feb. 8; Sp. p. 1141; Gaz. vol. 151; p. 209.
Hughes, Easter M. and C. C., Highland Park, Ill. Polishing compound. No. 967,777; Aug. 16; Sp. p. 4118; Gaz. vol. 157; p. 705.
Hughes, Frank J., assignor to Practical Display Rack Company, Mansfield, Ohio. Display-stand. No. 969,698; Sept. 6; Sp. p. 1151; Gaz. vol. 158; p. 186.
Hughes, Frederick A., Maza, N. D. Potato-gathering attachment. No. 963,766; July 12; Sp. p. 1631; Gaz. vol. 156; p. 275.
Hughes, George, Bolton-le-Moors, England. Signaling apparatus. No. 948,562; Feb. 8; Sp. p. 1653; Gaz. vol. 151; p. 288.
Hughes, George M., Buffalo, N. Y. Hose-reel. No. 975,245; Nov. 8; Sp. p. 2647; Gaz. vol. 160; p. 427.
Hughes, George V., Dorchester, Va. Loading device. No. 954,632; Apr. 12; Sp. p. 2007; Gaz. vol. 153; p. 354.
Hughes, Hardin M., Healing Springs, Ark. Base for poles or posts. No. 976,879; Nov. 29; Sp. p. 6156; Gaz. vol. 160; p. 1061.
Hughes, Harry H., Springfield, Mo. Revolving furnace for volatilizing metals from their ores. (Reissue.) No. 13,118; May 31; Sp. p. 8250; Gaz. vol. 154; p. 1388.
Hughes, Howard R., Houston, Tex. Roller-drill. No. 959,539; May 31; Sp. p. 6741; Gaz. vol. 154; p. 1148.
Hughes, Howard R., Houston, Tex. Roller-drill. No. 959,540; May 31; Sp. p. 6746; Gaz. vol. 154; p. 1148.
Hughes, Howard R., Houston, Tex. Roller boring-drill. No. 979,496; Dec. 27; Sp. p. 4479; Gaz. vol. 161; p. 792.
Hughes, Isaac L., Youngstown, Ohio. Apparatus for rolling metal bars. No. 947,305; Jan. 25; Sp. p. 5109; Gaz. vol. 150; p. 862.
Hughes, Isaac L., Youngstown, Ohio. Rolling metal bars. No. 947,554; Jan. 25; Sp. p. 5695; Gaz. vol. 150; p. 946.
Hughes, Isaac W., assignor of one-half to E. H. Sweeney, Trenton, N. J. Liquid-dispensing appliance. No. 948,883; Feb. 8; Sp. p. 2321; Gaz. vol. 151; p. 395.
Hughes, J. H. (See McLeran, Alvord M., assignor.)
Hughes, James R., assignor of one-third to J. M. Hughes, Uhrichsville, Ohio. Powder-can spout. No. 977,095; Nov. 29; Sp. p. 6669; Gaz. vol. 160; p. 1136.
Hughes, James W., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Slip-gear. No. 950,290; Feb. 22; Sp. p. 5328; Gaz. vol. 151; p. 934.
Hughes, James W., and D. T. Borden, Millville, N. J. Bottle-closure. No. 968,947; Aug. 30; Sp. p. 6625; Gaz. vol. 157; p. 1154.

Alphabetical list of patentees—Continued.

Hughes, Jennie M. (See Hughes, James R., assignor.)
Hughes, John M. (See Stedman and Hughes.)
Hughes, John W., Reading, Pa. Watch-pocket. No. 953,619; Mar. 29; Sp. p. 6543; Gaz. vol. 152; p. 1169.
Hughes, Joseph D., and F. A. Rettig, Chicago, Ill. Window-grating. No. 951,643; Mar. 8; Sp. p. 2393; Gaz. vol. 152; p. 414.
Hughes, Joseph F., Commerce, Ga. Combined cotton chopper and cultivator. No. 967,921; Aug. 23; Sp. p. 4414; Gaz. vol. 157; p. 777.
Hughes, Louis S., Joplin, Mo. Burning powdered coal. No. 945,846; Jan. 11; Sp. p. 1881; Gaz. vol. 150; p. 312.
Hughes, Louis S., assignor to Picher Lead Company, Joplin, Mo. Apparatus for manufacturing sublimed white lead. No. 975,768; Nov. 15; Sp. p. 3745; Gaz. vol. 160; p. 631.
Hughes, Louis S., assignor to Picher Lead Company, Joplin, Mo. Manufacturing sublimed white lead. No. 975,867; Nov. 15; Sp. p. 3946; Gaz. vol. 160; p. 665.
Hughes, Louis S., assignor to Picher Lead Company, Joplin, Mo. Freeing litharge from metallic lead mixed with it. No. 975,955; Nov. 15; Sp. p. 4117; Gaz. vol. 160; p. 696.
Hughes, Raymond E., assignor of one-third to C. H. Harrison, Holbrook, Ontario, Canada. Percolator. No. 961,963; June 21; Sp. p. 3595; Gaz. vol. 155; p. 632.
Hughes, Robert, Jr. (See Zimmerman and Hughes.) (Reissue.)
Hughes, Robert M., assignor of one-half to F. Goble, Holloway, Ohio. Hay-tedder. No. 952,250; Mar. 15; Sp. p. 3599; Gaz. vol. 152; p. 648.
Hughes, Samuel, Lindsay, Ontario, Canada. Rotary pump. No. 945,953; Jan. 11; Sp. p. 2113; Gaz. vol. 150; p. 351.
Hughes, Thomas J., Chicago, Ill. Gas-stove. No. 965,463; July 26; Sp. p. 5324; Gaz. vol. 156; p. 910.
Hughes, William B., Cleveland, Ohio. Number-plate support for vehicles. No. 962,219; June 21; Sp. p. 4147; Gaz. vol. 155; p. 720.
Hughes, William B., Cleveland, Ohio. Number-plate support for vehicles. No. 962,220; June 21; Sp. p. 4148; Gaz. vol. 155; p. 720.
Hughes, William B., Cleveland, Ohio. Number-plate support for vehicles. No. 962,221; June 21; Sp. p. 4150; Gaz. vol. 155; p. 721.
Hughes, William B., Cleveland, Ohio. Gas-producer. No. 971,271; Sept. 27; Sp. p. 4536; Gaz. vol. 158; p. 793.
Hughes, William B., Cleveland, Ohio. Gas-producer. No. 971,272; Sept. 27; Sp. p. 4538; Gaz. vol. 158; p. 794.
Hughes, William B., Cleveland, Ohio. Gas-producer. No. 977,651; Dec. 6; Sp. p. 525; Gaz. vol. 161; p. 79.
Hughes, William B., Cleveland, Ohio. Manufacture of gas. No. 977,874; Dec. 6; Sp. p. 991; Gaz. vol. 161; p. 156.
Hughes, William B., Cleveland, Ohio. Number-plate support for vehicles. No. 978,023; Dec. 6; Sp. p. 1295; Gaz. vol. 161; p. 207.
Hughes, William E. (See King, Hughes, and Hall.)
Hughes, William J., Baltimore, Md. Measuring-spigot. No. 954,435; Apr. 12; Sp. p. 1555; Gaz. vol. 153; p. 286.
Hughes, William R., and P. Cave-Moyle, Cheltenham, England. Means for securing a spare rim to the wheel of a vehicle. No. 946,674; Jan. 18; Sp. p. 3716; Gaz. vol. 150; p. 622.
Hughey, James R., Jackson, Ga. Pea-huller. No. 955,403; Apr. 19; Sp. p. 3696; Gaz. vol. 153; p. 650.
Huglo, Victor, Lille, France. Distillation of heavy and residual oils of petroleum. No. 953,952; Apr. 5; Sp. p. 527; Gaz. vol. 153; p. 96.
Hugo, Oliver K., Whitewater, Wis. Sectional conduit. No. 950,264; Feb. 22; Sp. p. 5278; Gaz. vol. 151; p. 926.
Huguenin, Albert, Zurich, Switzerland. Construction of rotating wheels for rotary fluid-compressors. No. 958,129; May 17; Sp. p. 3671; Gaz. vol. 154; p. 619.
Huhn, Gustav, Berlin, Germany. Packing for steam-turbines. No. 976,369; Nov. 22; Sp. p. 5064; Gaz. vol. 160; p. 860.
Huhn, Hermann. (See Williams and Huhn.)
Hühn, Paul, Breslau, Germany. Manufacture of soles. No. 961,696; June 14; Sp. p. 2994; Gaz. vol. 155; p. 519.
Huillier, Georges, Paris, France. Wind-shield for automobiles. No. 954,101; Apr. 5; Sp. p. 852; Gaz. vol. 153; p. 147.
Hukill, William S. (See Buzby and Hukill.)
Hukle, Oscar R., Lexington, Ky. Valve-gear. No. 950,177; Feb. 22; Sp. p. 5092; Gaz. vol. 151; p. 894.
Hulbert, Edwin F., South Norwalk, Conn. Hinge. No. 957,160; May 3; Sp. p. 1408; Gaz. vol. 154; p. 225.
Hulbert, Edwin F., South Norwalk, Conn. Combined hinge and handle. No. 966,020; Aug. 2; Sp. p. 382; Gaz. vol. 157; p. 60.
Hulbert, Edwin F., assignor to Sealshipt Oyster System, Inc., South Norwalk, Conn. Refrigerator. No. 979,304; Dec. 20; Sp. p. 4098; Gaz. vol. 161; p. 705.
Hulbert, John L., Holland Patent, N. Y. Milking-machine. No. 971,537; Oct. 4; Sp. p. 53; Gaz. vol. 159; p. 12.
Hulder, Joseph P., New York, N. Y., assignor to Ludwig & Company. Musical instrument. No. 963,151; July 5; Sp. p. 322; Gaz. vol. 156; p. 45.
Hulett, George H., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Pontoon-crane. No. 960,224; May 31; Sp. p. 8208; Gaz. vol. 154; p. 1382.
Hulett, George H., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Counterweight for pontoon-cranes. No. 960,225; May 31; Sp. p. 8210; Gaz. vol. 154; p. 1382.
Hulett, Thomas, Chicago, Ill. Porch-hand-rail support. No. 949,075; Feb. 15; Sp. p. 2728; Gaz. vol. 151; p. 485.
Hulfish, David S., assignor to McMeen & Miller, Chicago, Ill. Connection-registering device for telephones. No. 947,335; Jan. 25; Sp. p. 5179; Gaz. vol. 150; p. 874.
Hulfish, David S., assignor to McMeen & Miller, Chicago, Ill. Telephone system. No. 952,567; Mar. 22; Sp. p. 4272; Gaz. vol. 152; p. 783.
Hulin, Paul L., Grenoble, assignor to Société d'Electro-Chimie, Paris, and P. L. Hulin, Grenoble, France. Manufacture of metallic sodium. No. 971,198; Sept. 27; Sp. p. 4389; Gaz. vol. 158; p. 770.
Hulin, Paul L., assignor to Société d'Electro-Chimie, Paris, and P. L. Hulin, Grenoble, Isère, France. Apparatus for carrying out the electrolytic production of sodium. No. 978,888; Dec. 20; Sp. p. 3149; Gaz. vol. 161; p. 559.
Hulin, Paul L., Grenoble, assignor to Société d'Electro-Chimie, Paris, France, and P. L. Hulin. Means for the electrolytic manufacture of sodium. No. 979,497; Dec. 27; Sp. p. 4482; Gaz. vol. 161; p. 792.
Huling, Torrence R., and H. L. Craig, Jersey Shore, Pa. Automatic chuck. No. 951,530; Mar. 8; Sp. p. 2175; Gaz. vol. 152; p. 377.
Hulings, James H., Parsons, W. Va. Nozzle. No. 979,955; Dec. 27; Sp. p. 5486; Gaz. vol. 161; p. 948.
Hulings, James H., assignor of one-half to W. H. Miller, Parsons, W. Va. Valve. No. 976,804; Nov. 22; Sp. p. 5978; Gaz. vol. 160; p. 1010.
Hulkenberg, Jacob, Columbus, and B. J. Mattes, Crooksville, Ohio. Washing-machine. No. 960,330; June 7; Sp. p. 178; Gaz. vol. 155; p. 33.
Hull, Alva M., Detroit, Mich. Counting-machine. No. 964,782; July 19; Sp. p. 3914; Gaz. vol. 156; p. 651.
Hull, Edward M. (See Bebler, William P., assignor.)
Hull, Edwin, Newark, N. J. Sifter-top for cans. No. 950,819; Mar. 1; Sp. p. 771; Gaz. vol. 152; p. 123.
Hull, Henry H., Oberlin, Ohio. Knife attachment for revolvers. No. 946,132; Jan. 11; Sp. p. 2462; Gaz. vol. 150; p. 411.
Hull, Lorain T., Ada, Ohio. Leveling and grading instrument. No. 971,752; Oct. 4; Sp. p. 510; Gaz. vol. 159; p. 88.
Hull, Robert W., Hingham, Mass. Steam pressing and finishing iron. No. 976,571; Nov. 22; Sp. p. 5510; Gaz. vol. 160; p. 931.
Hull, Warren S., Sheldon, Ill. Electric-drop-cord adjuster. No. 977,192; Nov. 29; Sp. p. 6896; Gaz. vol. 160; p. 1171.
Hull, Wolcott A., assignor to G. J. T. Hennings, New York, N. Y. Combined water cooler and filter. No. 970,504; Sept. 20; Sp. p. 2899; Gaz. vol. 158; p. 507.
Hullt, John, Silverton, Colo. Neck-yoke. No. 953,620; Mar. 29; Sp. p. 6544; Gaz. vol. 152; p. 1169.
Hulpian, Charles. (See Dyett and Hulpian.)
Hulse, Edwin M., assignor to The E. M. Hulse Company, Columbus, Ohio. Sofa or davenport bed. No. 971,008; Sept. 20; Sp. p. 3963; Gaz. vol. 158; p. 678.
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Carbureted-vapor lighting system. No. 946,901; Jan. 18; Sp. p. 4263; Gaz. vol. 150; p. 700.
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Mantle protector and holder. No. 948,995; Feb. 15; Sp. p. 2557; Gaz. vol. 151; p. 460.
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Regulator for gas-lighting systems. No. 959,745; May 31; Sp. p. 7165; Gaz. vol. 154; p. 1216.
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Safety-vent for expansion-drums. No. 963,045; July 5; Sp. p. 33; Gaz. vol. 156; p. 8.
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Heating system. No. 966,409; Aug. 2; Sp. p. 1166; Gaz. vol. 157; p. 189.
Hulse, George E., Jersey City, N. J., assignor to The Safety Car Heating & Lighting Company. Steam-trap. No. 959,541; May 31; Sp. p. 6750; Gaz. vol. 154; p. 1148.
Hulse, Jesse G., and A. F. Schramm, assignors to The E. M. Hulse Company, Columbus, Ohio. Combined davenport and bed. No. 962,761; June 28; Sp. p. 5331; Gaz. vol. 155; p. 932.
Hulst, George P., Omaha, Nebr. Apparatus for refining and desilverizing lead. No. 965,464; July 26; Sp. p. 5325; Gaz. vol. 156; p. 910.
Hult, Carl A. and O. W., Stockholm, Sweden. Internal-combustion motor. No. 957,965; May 17; Sp. p. 3174; Gaz. vol. 154; p. 560.
Hult, Carl A. and O. W., Stockholm, Sweden. Explosion or combustion motor or pump. No. 959,748; May 31; Sp. p. 7174; Gaz. vol. 154; p. 1217.
Hult, Oscar W. (See Hult, Carl A. and O. W.)

Alphabetical list of patentees—Continued.

Hultgren, William H., Philadelphia, Pa., assignor to Otis Elevator Company, Jersey City, N. J. Combined brake apparatus and switch mechanism. No. 979,498; Dec. 27; Sp. p. 4485; Gaz. vol. 161; p. 792.

Hultquist, Charles A., Lowell, Ariz. Valve. No. 964,970; July 19; Sp. p. 4287; Gaz. vol. 156; p. 715.

Hultquist, Charles A., Bisbee, Ariz. Rock-drill. No. 978,586; Dec. 13; Sp. p. 2549; Gaz. vol. 161; p. 434.

Hults, Eugene A. (See Collins and Hults.)

Humason, Granville A. (See Odell and Humason.)

Humason, Granville A., Natchez, assignor of one-third to A. M. Byrd, Philadelphia, Miss., and one-half to E. O. Riordan, Washington, D. C. Machine for cleaning cotton. No. 959,746; May 31; Sp. p. 7171; Gaz. vol. 154; p. 1216.

Humbarger, Frederick W., Herrington, and D. J. Foreman, Kansas City, Kans. Pressure-pump. No. 952,617; Mar. 22; Sp. p. 4385; Gaz. vol. 152; p. 801.

Humberstone, Clifford C., La Grange, Ill. Trap. No. 969,282; Sept. 6; Sp. p. 275; Gaz. vol. 158; p. 45.

Humbert, Charles, and J. C. Beugnot, Paris, France. Vehicle-wheel. No. 973,436; Oct. 18; Sp. p. 4238; Gaz. vol. 159; p. 722.

Humbert, Richard E., Milford, Pa. Angle-finder. No. 956,356; Apr. 26; Sp. p. 5787; Gaz. vol. 153; p. 1006.

Humble, Alexander, Jr., Kansas City, Kans. Grave-marker. No. 979,764; Dec. 27; Sp. p. 5079; Gaz. vol. 161; p. 884.

Humble, Henry O. V. (See Hamilton, Robert, assignor.)

Humble, Terry L., assignor of one-half to J. M. Grinestaff, Tompkinsville, Ky. Rail-joint. No. 953,786; Apr. 5; Sp. p. 203; Gaz. vol. 153; p. 38.

Humbrecht, Jules, Gross-Lichterfelde, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Periscope. No. 976,370; Nov. 22; Sp. p. 5066; Gaz. vol. 160; p. 860.

Humes, William W., Youngstown, Ohio. Non-refillable bottle. No. 961,134; June 14; Sp. p. 1800; Gaz. vol. 155; p. 326.

Humma, Gertrude V., and C. M. Hafer, Reading, Pa. Umbrella-carrier. No. 975,430; Nov. 15; Sp. p. 3025; Gaz. vol. 160; p. 516.

Hummel, Daniel, Louisville, Ky. Seed-threshing machine. No. 959,346; May 24; Sp. p. 6333; Gaz. vol. 154; p. 1059.

Hummel, Ernest A., assignor to A. L. Haman, St. Paul, Minn. Electric-clock-synchronizing apparatus. No. 949,122; Feb. 15; Sp. p. 2832; Gaz. vol. 151; p. 501.

Hummel, Ernest A., assignor to A. L. Haman, St. Paul, Minn. Clock. No. 949,705; Feb. 15; Sp. p. 4000; Gaz. vol. 151; p. 696.

Hummel, Theodore, assignor of one-third to E. E. L. Montelius and one-third to J. B. Paulson, New York, N. Y. Trick snuff-box. No. 979,499; Dec. 27; Sp. p. 4489; Gaz. vol. 161; p. 793.

Hummell, George J., Madison, Ind. Saddletree. No. 964,864; July 19; Sp. p. 4075; Gaz. vol. 156; p. 679.

Humphrey, Alfred H., New York, N. Y. Gas-lamp. No. 950,597; Mar. 1; Sp. p. 277; Gaz. vol. 152; p. 46.

Humphrey, Alfred H., New York, N. Y. Inverted burner for incandescent gas-light. No. 955,874; Apr. 26; Sp. p. 4744; Gaz. vol. 153; p. 840.

Humphrey, Bert, Charleston, W. Va. Regulator for water-heating systems. No. 968,664; Aug. 30; Sp. p. 6029; Gaz. vol. 157; p. 1059.

Humphrey, Edwin H., Corry, Pa. Mail-bag seal. No. 968,665; Aug. 30; Sp. p. 6030; Gaz. vol. 157; p. 1059.

Humphrey, Edwin H., assignor of one-half to N. S. Covey, Corry, Pa. Caster. No. 955,162; Apr. 19; Sp p. 3160; Gaz. vol. 153; p. 568.

Humphrey, Edwin H., assignor of one-fourth to N. S. Covey, Corry, Pa., one-fourth to W. Fields, Cincinnati, Ohio, one-fourth to J. M. Baird, Hartford City, and one-fourth of A. E. Otto, Alexandria, Ind. Milk-receptacle. No. 965,188; July 26; Sp. p. 4720; Gaz. vol. 156; p. 817.

Humphrey, Ernest E., Lincoln, Nebr. Adjustable baby-jumper. No. 949,898; Feb. 22; Sp. p. 4466; Gaz. vol. 151; p. 798.

Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Ornamental suspender-buckle. No. 948,094; Feb. 1; Sp. p. 661; Gaz. vol. 151; p. 107.

Humphrey, Ernest N., assignor to Traut and Hine Manufacturing Company, New Britain, Conn. Garter. No. 950,135; Feb. 22; Sp. p. 4999; Gaz. vol. 151; p. 879.

Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Buckle. No. 954,395; Apr. 5; Sp. p. 1478; Gaz. vol. 153; p. 246.

Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Garment-supporter. No. 961,448; June 14; Sp. p. 2483; Gaz. vol. 155; p. 436.

Humphrey, Ernest N., New Britain, Conn., assignor to United States Fastener Company, Boston, Mass. Snap-fastener. No. 964,260; July 12; Sp. p. 2678; Gaz. vol. 156; p. 441.

Humphrey, Ernest N., assignor to Traut & Hine Mfg. Company, New Britain, Conn. Armband-threading and lever-buckle slide. No. 965,301; July 26; Sp. p. 4965; Gaz. vol. 156; p. 855.

Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Track-plate for furniture-legs. No. 968,357; Aug. 23; Sp. p. 5370; Gaz. vol. 157; p. 927.

Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Garment-supporter. No. 977,404; Nov. 29; Sp. p. 7350; Gaz. vol. 160; p. 1243.

Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Garment-supporter clasp. No. 978,024; Dec. 6; Sp. p. 1296; Gaz. vol. 161; p. 208.

Humphrey, Francis M., Pendleton, Oreg. Fly-trap. No. 959,747; May 31; Sp. p. 7172; Gaz. vol. 154; p. 1217.

Humphrey, Frank E., and F. H. Patrick, St. Johnsbury, Vt. Shutter-bower. No. 956,766; May 3; Sp. p. 574; Gaz. vol. 154; p. 91.

Humphrey, Frederick J., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 953,835; Apr. 5; Sp. p. 301; Gaz. vol. 153; p. 54.

Humphrey, Frederick J., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 953,836; Apr. 5; Sp. p. 306; Gaz. vol. 153; p. 55.

Humphrey, Harry B., assignor to Humphrey & Sons, Joliet, Ill. Wire-drawing block. No. 961,449; June 14; Sp. p. 2484; Gaz. vol. 155; p. 437.

Humphrey, Henry A., Kansas City, Mo., assignor to Safety Elevator Lock and Signal Company. Elevator. No. 963,567; July 5; Sp. p. 1211; Gaz. vol. 156; p. 186.

Humphrey, Henry A., Kansas City, Mo., assignor to Safety Elevator Lock and Signal Company. Elevator. No. 963,568; July 5; Sp. p. 1216; Gaz. vol. 156; p. 187.

Humphrey, Henry A., Kansas City, Mo., assignor to Safety Elevator Lock and Signal Company. Elevator. No. 963,569; July 5; Sp. p. 1220; Gaz. vol. 156; p. 187.

Humphrey, Henry A., assignor to Safety Elevator Lock and Signal Company, Kansas City, Mo. Elevator. No. 963,570; July 5; Sp. p. 1224; Gaz. vol. 156; p. 188.

Humphrey, Henry A., assignor to Safety Elevator Lock and Signal Company, Kansas City, Mo. Elevator. No. 978,377; Dec. 13; Sp. p. 2072; Gaz. vol. 161; p. 362.

Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 952,618; Mar. 22; Sp. p. 4388; Gaz. vol. 152; p. 801.

Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 960,933; June 7; Sp. p. 1382; Gaz. vol. 155; p. 232.

Humphrey, Hill, Jacksonville, N. C. Folding seat. No. 974,384; Nov. 1; Sp. p. 689; Gaz. vol. 160; p. 104.

Humphrey, Hiram W. (See Lester and Humphrey.)

Humphrey, Isaac W., and H. A. Spurgeon, Dayton, Ohio. Toy flying-machine. No. 970,829; Sept. 20; Sp. p. 3643; Gaz. vol. 158; p. 621.

Humphrey, Jabez, Philadelphia, Pa. Non-refillable bottle. No. 965,524; July 26; Sp. p. 5474; Gaz. vol. 156; p. 932.

Humphrey & Sons. (See Humphrey, Harry B., assignor.)

Humphreys, Ira B., Denver, Colo. Rotary pump. No. 969,478; Sept. 6; Sp. p. 688; Gaz. vol. 158; p. 109.

Humphreys, John, Henderson, Ky. Spoke and felly clip. No. 956,806; May 3; Sp. p. 657; Gaz. vol. 154; p. 104.

Humphreys, Thomas H., Kissee Mills, Mo. Wheel garden-hoe. No. 968,477; Aug. 23; Sp. p. 5603; Gaz. vol. 157; p. 967.

Humphreys, William R., Springfield, Mo. Composition. No. 952,906; Mar. 22; Sp p. 5002; Gaz. vol. 152; p. 899.

Humphries, James P., Kidderminster, England. Weft-carrier for needle-looms. No. 949,706; Feb. 15; Sp. p. 4002; Gaz. vol. 151; p. 696.

Humphries, Smith C., Denver, Colo. Separable square. No. 971,615; Oct. 4; Sp. p. 230; Gaz. vol. 159; p. 41.

Humphrys, Charles A., Chico, Cal. Draft-pocket. No. 977,875; Dec. 6; Sp. p. 993; Gaz. vol. 161; p. 156.

Hunger, Frederick W. (See Hunger, Otto A. and F. W.)

Hunger, Otto A. and F. W., Lagrange, Tex. Display-cabinet for laces, &c. No. 951,075; Mar. 1; Sp. p. 1236; Gaz. vol. 152; p. 203.

Hungerford, Daniel D., assignor to American Thermostat Company, Elmira, N. Y. Automatic stop and reverse mechanism. No. 952,991; Mar. 22; Sp. p. 5162; Gaz. vol. 152; p. 927.

Hunn, Howard G., New York, N. Y. Revolving chair and like article of furniture. No. 968,565; Aug. 30; Sp. p. 5816; Gaz. vol. 157; p. 1024.

Hunnewell, Frederick N., Mamaroneck, N. Y., assignor to H. W. Merwin, Jr. Hair-drier. No. 961,498; June 14; Sp. p. 2602; Gaz. vol. 155; p. 454.

Hunnicutt, Charles, Wilmington, Ohio. Dropping attachment for corn-planters. No. 955,462; Apr. 19; Sp. p. 3812; Gaz. vol. 153; p. 669.

Hunold, Ernest, Providence, R. I. Razor-strop. No. 977,311; Nov. 29; Sp. p. 7114; Gaz. vol. 160; p. 1210.

Hunsaker, Marvin W., Lakeside, Nebr. Scythe-snath fastener. No. 970,338; Sept. 13; Sp. p. 2548; Gaz. vol. 158; p. 430.

Hunsicker, Allan D., and W. A. Denton, Shawnee, Okla. Level. No. 973,437; Oct. 18; Sp. p. 4239; Gaz. vol. 159; p. 722.

Hunsicker, Harry J., Albany, N. Y. Oil break-switch. No. 977,193; Nov. 29; Sp. p. 6898; Gaz. vol. 160; p. 1171.

Hunt, Albert P., *et al.* (See MacLachlan, John C., assignor.)

Hunt, Andrew M. (See Speed, James B., assignor.)

Alphabetical list of patentees—Continued.

Hunt, Catherine, Oberon, N. D. Curtain-pole. No. 976,128; Nov. 15; Sp. p. 4461; Gaz. vol. 160; p. 755.
Hunt, Charles, New York, N. Y. Releasing device. No. 955,163; Apr. 19; Sp. p. 3162; Gaz. vol. 153; p. 568.
Hunt, Charles, New York, N. Y., assignor of one-fourth to J. Rogers, Essex Fells, N. J. Launching apparatus. No. 953,694; Apr. 5; Sp. p. 31; Gaz. vol. 153; p. 8.
Hunt, Charles R. (See Hayden, George D., assignor.)
Hunt, Charles W., New York, N. Y. Hopper-valve. No. 946,547; Jan. 18; Sp. p. 3457; Gaz. vol. 150; p. 581.
Hunt, Charles W., New York, N. Y. Hopper-valve, &c. No. 954,294; Apr. 5; Sp. p. 1279; Gaz. vol. 153; p. 211.
Hunt, Charles W., New York, N. Y. Hoisting apparatus. No. 974,385; Nov. 1; Sp. p. 691; Gaz. vol. 160; p. 104.
Hunt, Charles W., West New Brighton, N. Y. Dumping-bucket. No. 967,922; Aug. 23; Sp. p. 4415; Gaz. vol. 157; p. 777.
Hunt, Charles W., and C. C. King, New York, assignors to C. W. Hunt Company, West New Brighton, N. Y. Hopper-valve, &c. No. 954,293; Apr. 5; Sp. p. 1277; Gaz. vol. 153; p. 211.
Hunt, Charlie D., Paola, Kans. Wipe-joint pipe-holder. No. 979,305; Dec. 20; Sp. p. 4100; Gaz. vol. 161; p. 706.
Hunt, Harry H., Winfield township, Butler county, Pa. Train-signaling and brake-releasing mechanism. No. 959,749; May 31; Sp. p. 7175; Gaz. vol. 154; p. 1218.
Hunt Helm Ferris & Company. (See Ferris, Henry L. and H. J., assignors.)
Hunt, Helm, Ferris & Company. (See Minshull, Robert, assignor.)
Hunt, Howard W., Pleasant Ridge, Ohio. Power-transmitting device. No. 962,842; June 28; Sp. p. 5486; Gaz. vol. 155; p. 959.
Hunt, James B., Rockwell, Fla. Steering device. No. 966,750; Aug. 9; Sp. p. 1994; Gaz. vol. 157; p. 332.
Hunt, John O., Glens Falls, N. Y. Attachment for pulp-presses. No. 978,587; Dec. 13; Sp. p. 2552; Gaz. vol. 161; p. 435.
Hunt, John P. (See Fox, Richard M., assignor.)
Hunt, Joseph W. (See Guthrie, Jones, Guthrie, and Hunt.)
Hunt, Ludovic E., Somerset, Ky. Engine-governor. No. 955,073; Apr. 12; Sp. p. 2980; Gaz. vol. 153; p. 506.
Hunt, Osman E., Eagle Grove, Iowa. Commutator-truing machine. No. 945,784; Jan. 11; Sp. p. 1724; Gaz. vol. 150; p. 289.
Hunt, Osman E., Eagle Grove, Iowa. Valve. No. 949,899; Feb. 22; Sp. p. 4467; Gaz. vol. 151; p. 798.
Hunt, Osman E., Eagle Grove, Iowa. Commutator-truing machine. No. 971,753; Oct. 4; Sp. p. 513; Gaz. vol. 159; p. 89.
Hunt, Ozello R., assignor to Vail and Hunt Company, Chicago, Ill. Bedstead. No. 948,054; Feb. 1; Sp. p. 574; Gaz. vol. 151; p. 92.
Hunt, Randall D. (See Riley and Hunt.)
Hunt, Richard H., *et al.* (See Hunt and La May, assignors.)
Hunt, Richard H., New York, and A. C. La May, Rochester, assignors of one-third to E. J. Hassett, one-third to E. E. Darragh, and one-third to R. H. Hunt, New York, N. Y. Reel for ruchings and the like. No. 950,851; Mar. 1; Sp. p. 829; Gaz. vol. 152; p. 133.
Hunt, Robert H. H., assignor to Economic Loom Company, San Francisco, Cal. Loom. No. 958,874; May 24; Sp. p. 5371; Gaz. vol. 154; p. 901.
Hunt, Robert H. H., Alameda, assignor to Economic Loom Company, San Francisco, Cal. Loom. No. 960,019; May 31; Sp. p. 7797; Gaz. vol. 154; p. 1312.
Hunt, William H., New York, N. Y. Dumping truck or vehicle. No. 955,875; Apr. 26; Sp. p. 4747; Gaz. vol. 153; p. 841.
Hunt, William H., New York, N. Y. Dumping-truck. No. 961,861; June 21; Sp. p. 3377; Gaz. vol. 155; p. 598.
Hunt, Wilson P., Moline, assignor to G. D. Reynolds & Company, Rock Island, Ill. Screw-driving machine. No. 950,534; Mar. 1; Sp. p. 153; Gaz. vol. 152; p. 26.
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Record-card. No. 959,938; May 31; Sp. p. 7607; Gaz. vol. 154; p. 1284.
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Margin-piece for cabinets or the like. No. 959,939; May 31; Sp. p. 7610; Gaz. vol. 154; p. 1284.
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Corner-joint. No. 959,940; May 31; Sp. p. 7611; Gaz. vol. 154; p. 1284.
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Joint construction. No. 960,934; June 7; Sp. p. 1384; Gaz. vol. 155; p. 233.
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Joint for display-cases or similar structures. No. 965,525; July 26; Sp. p. 5476; Gaz. vol. 156; p. 932.
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Shelf-support. No. 967,383; Aug. 16; Sp. p. 3308; Gaz. vol. 157; p. 573.
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Dust-proof joint. No. 968,850; Aug. 30; Sp. p. 6429; Gaz. vol. 157; p. 1120.
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Panel construction. No. 969,163; Sept. 6; Sp. p. 23; Gaz. vol. 158; p. 7.
Hunter, Effie M., Bloomington, Ind. Music-chart. No. 954,436; Apr. 12; Sp. p. 1556; Gaz. vol. 153; p. 287.
Hunter, Frank A., and G. S. Turner, Pittsburg, Pa. Saw-grinding machine. No. 952,907; Mar. 22; Sp. p. 5002; Gaz. vol. 152; p. 899.
Hunter, Harry E., San Jose, Cal. Merchandise-vending machine. No. 962,639; June 28; Sp. p. 5075; Gaz. vol. 155; p. 887.
Hunter, Hugh M., assignor to The National Acme Manufacturing Company, Cleveland, Ohio. Left-hand-threading device. No. 976,880; Nov. 29; Sp. p. 6158; Gaz. vol. 160; p. 1061.
Hunter, James H. (See Bennett and Hunter.)
Hunter, James L., Pittsburg, Pa. Molding-machine. No. 966,920; Aug. 9; Sp. p. 2361; Gaz. vol. 157; p. 386.
Hunter, James T., New York, N. Y. Seal-lock. No. 947,528; Jan. 25; Sp. p. 5642; Gaz. vol. 150; p. 938.
Hunter, James W., Foster, W. Va. Combination-lock. No. 961,236; June 14; Sp. p. 2021; Gaz. vol. 155; p. 364.
Hunter, John. (See Gilfillan, Essington N., assignor.)
Hunter, Laura G., assignor of one-half to W. A. M. Webb, Ewing, Ill. Trousers hanger and stretcher. No. 969,872; Sept. 13; Sp. p. 1581; Gaz. vol. 158; p. 272.
Hunter, Robert C., Brightwood, D. C. Pipe-hanger. No. 949,576; Feb. 15; Sp. p. 3765; Gaz. vol. 151; p. 654.
Hunter, Rudolph M., assignor to C. M. Clark, Philadelphia, Pa. Feed-water regulator. No. 968,948; Aug. 30; Sp. p. 6626; Gaz. vol. 157; p. 1154.
Hunter, Shields R. (See Bangle and Hunter.)
Hunter, Thomas H. (See Stahl and Hunter.)
Hunter, Thomas W., Petaluma, Cal. Oil-burner. No. 959,347; May 24; Sp. p. 6334; Gaz. vol. 154; p. 1059.
Hunter, William A., Terre Haute, Ind. Removable storm-cab for vehicles. No. 955,404; Apr. 19; Sp. p. 3698; Gaz. vol. 153; p. 650.
Hunter, William A., assignor to Fouts & Hunter Carriage Manufacturing Company, Terre Haute, Ind. Storm-top. (Reissue.) No. 13,183; Dec. 13; Sp. p. 3014; Gaz. vol. 161; p. 511.
Hunter, William A., Jr. (See Bassett and Hunter.)
Hunter, William F., assignor of one-half to T. Bair, Arcata, Cal. Hydraulic dredge. No. 974,150; Nov. 1; Sp. p. 85; Gaz. vol. 160; p. 17.
Hunter, William O., Topeka, Kans. Safety-clip for pens and pencils. No. 960,092; May 31; Sp. p. 7956; Gaz. vol. 154; p. 1337.
Hunting, Barton D., Rockford, Mich. Well-cover. No. 948,329; Feb. 8; Sp. p. 1143; Gaz. vol. 151; p. 210.
Hunting, Eugene N., assignor to The General Fire-Proofing Company, Youngstown, Ohio. Reinforced concrete structure. No. 947,750; Jan. 25; Sp. p. 6066; Gaz. vol. 150; p. 1012.
Huntington, Charles S., Omaha, Nebr. Machine for forming buckle-frames. No. 959,941; May 31; Sp. p. 7612; Gaz. vol. 154; p. 1285.
Huntington, Charles S., assignor to A. T. Austin, Omaha, Nebr. Footwear-former. No. 966,551; Aug. 9; Sp. p. 1546; Gaz. vol. 157; p. 264.
Huntington, Robert, Medford, assignor, by mesne assignments, of one-half to Arbecam Nautical Instrument Co., Boston, Mass. Bearing-finder. No. 961,862; June 21; Sp. p. 3379; Gaz. vol. 155; p. 598.
Huntley, John W., assignor to R. T. Marsh, Rockhill, S. C. Shutter manipulator and fastener. No. 978,588; Dec. 13; Sp. p. 2555; Gaz. vol. 161; p. 435.
Huntley Mfg. Co. (See Wolfe, Arthur P., assignor.)
Huntley, Stephen A., Kansas City, Mo., assignor of one-third to G. W. Slater, one-third to J. M. Benham, Oakland, Cal., and one-third to W. E. Otis, Jr., Reno, Nev. Vehicle-wheel rim. No. 975,796; Nov. 8; Sp. p. 1619; Gaz. vol. 160; p. 273.
Huntoon, Charles F., assignor to H. D. Laughlin, Chicago, Ill. Brake-beam. No. 953,695; Apr. 5; Sp. p. 33; Gaz. vol. 153; p. 9.
Huntoon, Charles F., assignor to H. D. Laughlin, Chicago, Ill. Brake-beam. No. 960,935; June 7; Sp. p. 1386; Gaz. vol. 155; p. 233.
Huntoon, Charles F., assignor to H. D. Laughlin, Chicago, Ill. Brake-beam. No. 974,797; Nov. 8; Sp. p. 1620; Gaz. vol. 160; p. 273.
Huntsman, Harry F. M., Sheffield, England. Apparatus for removing the hardness from certain portions of hardened steel strips. No. 975,041; Nov. 8; Sp. p. 2192; Gaz. vol. 160; p. 356.
Hupfeld Aktiengesellschaft, Ludwig. (See Frömsdorf, Robert, assignor.)
Hupp, Albert, Kansas City, Mo., assignor to U. S. Rapid Mail Service Co., Pierre, S. D. Mail-pouch receiving and delivering apparatus. No. 974,274; Nov. 1; Sp. p. 439; Gaz. vol. 160; p. 65.
Hupp Motor Car Company. (See Nelson, Emil A., assignor.)
Huppert, John B., Pittsburg, Pa. Syringe. No. 967,125; Aug. 9; Sp. p. 2792; Gaz. vol. 157; p. 458.
Hurck, John, St. Louis, Mo. Brake. No. 949,631; Feb. 15; Sp. p. 3858; Gaz. vol. 151; p. 673.
Hurd, Benjamin, Nutley, N. J. Machine for cutting rails. No. 959,142; May 24; Sp. p. 5915; Gaz. vol. 154; p. 990.
Hurd, Davis, Niagara Falls, N. Y. Whiffletree. No. 969,629; Sept. 6; Sp. p. 1018; Gaz. vol. 158; p. 163.

Alphabetical list of patentees—Continued.

Hurd, Myron L., Kansas City, Mo. Chair. No. 953,338; Mar. 29; Sp. p. 5933; Gaz. vol. 152; p. 1071.
Hurd, Norman B. (See Voight and Hurd.)
Hurd, Norman B., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Hotel-corridor lock. No. 974,666; Nov. 1; Sp. p. 1333; Gaz. vol. 160; p. 207.
Hurd, William T., Rochester, N. Y. Brick-kiln. No. 974,969; Nov. 8; Sp. p. 2039; Gaz. vol. 160; p. 333.
Hurl, Charles W., Altoona, assignor of one-fourth to R. D. Elder, Juniata, Pa. Air-brake system. No. 966,211; Aug. 2; Sp. p. 798; Gaz. vol. 157; p. 126.
Hurl, Charles W., Altoona, assignor of one-fourth to J. M. Henry and one-fourth to J. C. Turner, Juniata, Pa. Automatic fluid-pressure-retaining valve. No. 969,479; Sept. 6; Sp. p. 689; Gaz. vol. 158; p. 109.
Hurlbut, Rufus H., Sudbury, Mass. Lathe-chuck. No. 948,449; Feb. 8; Sp. p. 1406; Gaz. vol. 151; p. 251.
Hurley, Daniel, Providence, R. I. Separator for suction cleaning apparatus. No. 965,581; July 26; Sp. p. 5599; Gaz. vol. 156; p. 953.
Hurley, Daniel, Providence, R. I., and J. E. O'Shea, New York, N. Y. Drying apparatus. No. 946,843; Jan. 18; Sp. p. 4111; Gaz. vol. 150; p. 680.
Hurley Machine Company. (See Fisher, Alva J., assignor.)
Hurley, Thomas F. (See Lynch, James F., assignor.)
Hurley, William H., New Haven, Conn. Gas-burner. No. 970,056; Sept. 13; Sp. p. 1979; Gaz. vol. 158; p. 335.
Hurry, Edward H., Bethlehem, Pa. Centrifugal pulverizing-mill. No. 963,046; July 5; Sp. p. 35; Gaz. vol. 156; p. 8.
Hursh, Joseph. (See Mowry and Hursh.)
Hurst, Jacob, and A. Myers, Syracuse, N. Y. Non-slipping device. No. 968,767; Aug. 30; Sp. p. 6270; Gaz. vol. 157; p. 1094.
Hurst, Joseph, Louisville, Ky. Centrifugal pump. No. 978,753; Dec. 13; Sp. p. 2891; Gaz. vol. 161; p. 490.
Hurt, Ambrose P., assignor of one-third to G. H. Leitner and one-third to W. P. Wright, Anderson, S. C. Spout for oil-cans. No. 947,991; Feb. 1; Sp. p. 440; Gaz. vol. 151; p. 71.
Hurtt, Frank L. (See Parker and Hurtt.)
Hurwitz, Eugen. (See Remané, Gottschalk, and Hurwitz.)
Huse, Byron, Palermo, assignor of one-half to G. M. Sparks, Oroville, Cal. Mechanical movement. No. 960,936; June 7; Sp. p. 1388; Gaz. vol. 155; p. 234.
Huse, Charles A., Williamsport, and J. L. Miller, Lewisburg, Pa. Bonding fish-plate. No. 979,860; Dec. 27; Sp. p. 5302; Gaz. vol. 161; p. 917.
Huseby, Albert A., Chicago, Ill. Process of and apparatus for casting piano-plates. No. 978,452; Dec. 13; Sp. p. 2231; Gaz. vol. 161; p. 387.
Huser, Carl L. W., San Antonio, Tex. Motor-cycle frame. No. 948,507; Feb. 8; Sp. p. 1534; Gaz. vol. 151; p. 271.
Huson, Winfield S., assignor to The Whitlock Printing Press. Mfg. Co., Derby, Conn. Flat-bed printing-press. No. 950,136; Feb. 22; Sp. p. 5001; Gaz. vol. 151; p. 879.
Hussey, Alfred R., Harvard, assignor to American Water Supply Company of New England, Boston, Mass. Drinking-cup. No. 952,197; Mar. 15; Sp. p. 3489; Gaz. vol. 152; p. 628.
Hussey, Dennis B., St. Louis, Mo. Ball-caster. No. 956,969; May 3; Sp. p. 1028; Gaz. vol. 154; p. 161.
Hussey, John M., Wichita, Kans. Desiccating egg-batter. No. 957,061; May 3; Sp. p. 1207; Gaz. vol. 154; p. 192.
Hussey, John R., Indianapolis, Ind. Fireproof door and the like. No. 948,450; Feb. 8; Sp. p. 1407; Gaz. vol. 151; p. 251.
Hussey, Thomas, Lawrence, Mass. Writing-tablet. No. 964,424; July 12; Sp. p. 3000; Gaz. vol. 156; p. 495.
Hussung, George R. (See Boldrey and Hussung.)
Hustace, Frank, and J. J. Smiddy, Honolulu, Hawaii. Cuff attachment. No. 979,306; Dec. 20; Sp. p. 4102; Gaz. vol. 161; p. 706.
Husted, Ellsworth E., Newport, N. J. Plant-carrier. No. 955,164; Apr. 19; Sp. p. 3164; Gaz. vol. 153; p. 568.
Husted, Highland E., Galesburg, Ill. Registering-punch. No. 971,538; Oct. 4; Sp. p. 57; Gaz. vol. 159; p. 12.
Husted, Oscar M., Lacey, Ark. Honeycomb foundation. No. 979,765; Dec. 27; Sp. p. 5080; Gaz. vol. 161; p. 885.
Huston, George H., Cincinnati, Ohio. Gas-mantle support. No. 969,630; Sept. 6; Sp. p. 1020; Gaz. vol. 158; p. 163.
Huston, Isaac G., Carey, Ohio. Fire-pot. No. 969,373; Sept. 6; Sp. p. 485; Gaz. vol. 158; p. 77.
Hutchens, James A. (See Vogel and Hutchens.)
Hutchings, George F., Kansas City, Mo. Manifolding device. No. 954,102; Apr. 5; Sp. p. 854; Gaz. vol. 153; p. 147.
Hutchings, George S., Cambridge, Mass. Wrapper. No. 979,307; Dec. 20; Sp. p. 4103; Gaz. vol. 161; p. 706.
Hutchings, Jennie E. (See Mortimer, Frederick E., assignor.)
Hutchings, John, London, England. Direct-acting pumping machinery. No. 965,819; July 26; Sp. p. 6098; Gaz. vol. 156; p. 1034.
Hutchings, John, London, England. Distributing-valve. No. 965,820; July 26; Sp. p. 6100; Gaz. vol. 156; p. 1035.
Hutchings, John, London, England. Internal-combustion motor-engine turbine or reaction wheel. No. 967,778; Aug. 16; Sp. p. 4119; Gaz. vol. 157; p. 705.
Hutchingson, William W., Brooklyn, N. Y. Trolley. No. 963,571; July 5; Sp. p. 1229; Gaz. vol. 156; p. 188.
Hutchins, Arthur W., Cranston, R. I. Means for drying articles of jewelry, &c. No. 948,763; Feb. 8; Sp. p. 2100; Gaz. vol. 151; p. 356.
Hutchins, Arthur W., Cranston, R. I. Means adapted for drying jewelry, &c. No. 949,930; Feb. 22; Sp. p. 4531; Gaz. vol. 151; p. 809.
Hutchinson Bros. (See Hutchinson, Charles F., assignor.)
Hutchinson, Charles F., assignor to Hutchinson Bros., Kingsville, Md. Shaking and dumping grate. No. 978,589; Dec. 13; Sp. p. 2556; Gaz. vol. 161; p. 436.
Hutchinson, Charles G., New York, N. Y. Hand vacuum-cleaner. No. 971,044; Sept. 27; Sp. p. 4063; Gaz. vol. 158; p. 719.
Hutchinson, Clarence R., French Settlement, La. Automatic weighing apparatus. No. 977,014; Nov. 29; Sp. p. 6499; Gaz. vol. 160; p. 1108.
Hutchinson, Edward H. (See Joye, Thomas H., assignor.)
Hutchinson, Ely C., Oakland, Cal. Ore-crushing machinery. No. 954,295; Apr. 5; Sp. p. 1280; Gaz. vol. 153; p. 211.
Hutchinson, Harold F., Rochester, N. Y. Electrolier-fixture. No. 969,283; Sept. 6; Sp. p. 277; Gaz. vol. 158; p. 45.
Hutchinson, Ira R., assignor to Hutchinson Mailer Manufacturing Company, Fresno, Cal. Addressing-machine. No. 968,056; Aug. 23; Sp. p. 4705; Gaz. vol. 157; p. 822.
Hutchinson, Ira R., assignor to Hutchinson Mailer Manufacturing Company, Fresno, Cal. Machine for wrapping newspapers. No. 971,893; Oct. 4; Sp. p. 818; Gaz. vol. 159; p. 141.
Hutchinson, John A. (See Shonk and Hutchinson.)
Hutchinson Mailer Manufacturing Company. (See Hutchinson, Ira R., assignor.)
Hutchinson, Malcolm, Muskegon, Mich. Knockdown cigar-box. No. 961,964; June 21; Sp. p. 3596; Gaz. vol. 155; p. 632.
Hutchinson, Raleigh E., assignor of one-half to R. E. Hutchinson, one-sixth to W. A. Ely, one-sixth to A. K. Slocum, Portland, and one-sixth to E. M. Young, Rainier, Oreg. Door-securer. No. 979,167; Dec. 20; Sp. p. 3812; Gaz. vol. 161; p. 660.
Hutchinson, Richard J., Birkenhead, and A. B. Grindrod, Rock Ferry, England. Speed and distance recorder. No. 964,647; July 19; Sp. p. 3526; Gaz. vol. 156; p. 603.
Hutchinson, Robert M., Elgin, Ill. Piano-agraffe. No. 954,189; Apr. 5; Sp. p. 1048; Gaz. vol. 153; p. 177.
Hutchinson, T. F. (See White, Frank L., assignor.)
Hutchinson, Thomas J., Manchester, England. Treating bagasse. No. 975,387; Nov. 8; Sp. p. 2940; Gaz. vol. 160; p. 474.
Hutchinson, Warren B., trustee. (See Rector, Alcorn, assignor.)
Hutchinson, Willard L. (See Heller and Emrick, assignors.)
Hutchinson, William F. (See Perry, Charles F., assignor.)
Hutchison, E. K., *et al.* (See Dibble, Frank Y., assignor.)
Hutchison, John K. (See Moore and Hutchison.)
Hutchison, Miller R., Bronxville, N. Y. Signaling-horn, &c. No. 956,898; May 3; Sp. p. 864; Gaz. vol. 154; p. 138.
Hutchison, Miller R., Summit, N. J. - Diaphragm-actuated horn and resonator therefor. No. 957,161; May 3; Sp. p. 1409; Gaz. vol. 154; p. 225.
Hutchison, Robert B., Wilkinsburg, Pa. Vacuum-cleaner. No. 946,801; Jan. 18; Sp. p. 4016; Gaz. vol. 150; p. 666.
Hutchison, Robert B., Wilkinsburg, Pa. Vacuum-cleaner. No. 956,100; Apr. 26; Sp. p. 5227; Gaz. vol. 153; p. 919.
Hutchison, William A., Buchanan, Mich. Ice-cream cutter. No. 972,621; Oct. 11; Sp. p. 2432; Gaz. vol. 159; p. 415.
Hutchison, William N., and J. A. Andrew, Victoria, British Columbia, Canada. Hat-pin guard. No. 975,620; Nov. 15; Sp. p. 3427; Gaz. vol. 160; p. 582.
Huth, Hermann. St. Louis, Mo. Horseshoe attachment. No. 957,884; May 17; Sp. p. 2936; Gaz. vol. 154; p. 531.
Huther, Angus E., *et al.* (See Sears, George H., assignor.)
Huther Bros. Saw Mfg. Co., The. (See Aldridge, Harry G., assignor.)
Huther, Jacob, St. Louis, Mo. Reversing-gear. No. 967,384; Aug. 16; Sp. p. 3310; Gaz. vol. 157; p. 573.
Huther, Warren B., *et al.* (See Sears, George H., assignor.)
Hutteballe, Hans C., and C. Morler, Boise, Idaho. Photographic apparatus. No. 971,447; Sept. 27; Sp. p. 4857; Gaz. vol. 158; p. 850.
Hutter, Alfred. (See Steingassner, Hermann, assignor.)
Hutto, Charles N. (See Estes, Allen L., assignor.)
Hutton, Burtrom G. and R. M., Philadelphia, Pa. Knockdown crate. No. 967,923; Aug. 23; Sp. p. 4416; Gaz. vol. 157; p. 778.
Hutton, Ernest, Huttonsville, W. Va. Lubricating device. No. 948,224; Feb. 1; Sp. p. 911; Gaz. vol. 151; p. 149.
Hutton, George B., assignor to W. H. Butler, New York, N. Y. Machine for tipping cigarettes. No. 977,015; Nov. 29; Sp. p. 6500; Gaz. vol. 160; p. 1109.

Alphabetical list of patentees—Continued.

Hutton, Raymond M. (See Hutton, Burton G. and R. M.)
Hutton, Roger B., Pitsea, England. Combined dark slide and developing-dish for color photography. No. 978,590; Dec. 13; Sp. p. 2558; Gaz. vol. 161; p. 436.
Hutton, Samuel T. (See Shaffner and Hutton.)
Hutton, Samuel T., assignor to Sheidel Western X-Ray Coil Company, Chicago, Ill. Electric switching apparatus. No. 969,480; Sept. 6; Sp. p. 691; Gaz. vol. 158; p. 109.
Hutton, William A., Scranton, Pa. Electric-light fixture. No. 948,095; Feb. 1; Sp. p. 652; Gaz. vol. 151; p. 107.
Hutzel, Benedict N., New York, N. Y. Ball-frame for pool and billiard tables. No. 966,552; Aug. 9; Sp. p. 1548; Gaz. vol. 157; p. 264.
Huver, Charles G., and H. Dilks, Philadelphia, Pa. Sign-controlling appliance. No. 979,956; Dec. 27; Sp. p. 5487; Gaz. vol. 161; p. 948.
Huverstuhl, Joseph, Los Angeles, Cal. Lubricator. No. 969,699; Sept. 6; Sp. p. 1153; Gaz. vol. 158; p. 187.
Huwart, Edouard, Liege, Belgium. Apparatus for the preparation of formaldehyde. No. 961,721; June 14; Sp. p. 3043; Gaz. vol. 155; p. 527.
Huxhold, John C., Chicago, assignor of one-half to W. J. Armstrong, Pullman, Ill. Pressure-retaining device for air-brakes. No. 951,566; Mar. 8; Sp. p. 2243; Gaz. vol. 152; p. 389.
Huxley, Charles E., Chicago, Ill. Armor for pneumatic tires. No. 964,783; July 19; Sp. p. 3918; Gaz. vol. 156; p. 651.
Huyck, Francis P., Toledo, Ohio. Adjustable shaft-engaging means. No. 972,787; Oct. 11; Sp. p. 2760; Gaz. vol. 159; p. 469.
Huysmans, Georges, Brussels, Belgium. Spare wheel for motor-cars and the like. No. 972,080; Oct. 4; Sp. p. 1232; Gaz. vol. 159; p. 209.
Hyatt Roller Bearing Company. (See Lockwood, Charles S., assignor.)
Hyatt Roller Bearing Company. (See Shirley, Cephas I., assignor.)
Hyatt Roller Bearing Company. (See Shirley and Lockwood, assignors.)
Hyde, Albert G., and R. P. Link, assignors to Uni-Typebar Limited, London, England. Means for alining and supporting type. No. 978,754; Dec. 13; Sp. p. 2892; Gaz. vol. 161; p. 490.
Hyde, Arthur S., and C. Gordon, Hartford, assignors to Whitlock Coil Pipe Company, West Hartford, Conn. Cooler for automobiles. No. 965,189; July 26; Sp. p. 4721; Gaz. vol. 156; p. 817.
Hyde, Henry E., Johannesburg, Transvaal. Safety mechanism for mine skips and cages. No. 956,707; May 3; Sp. p. 447; Gaz. vol. 154; p. 71.
Hyde, Sadia, St. Joseph, Mo. Folding table. No. 955,804; Apr. 19; Sp. p. 4550; Gaz. vol. 153; p. 786.
Hydraulic Clutch Company, The. (See English, Peter, assignor.)
Hydraulic Gravity Separator Co., The. (See Forbes, Dudley J., assignor.)
Hydrex Felt & Engineering Company. (See Schaffer, Theodore A., assignor.)
Hydrocarbon Converter Company. (See Cutter, William T., assignor.)
Hyer, Emilie S., executrix. (See Hyer, John J.)
Hyer, John J., deceased, East St. Louis, Ill.; E. S. Hyer, executrix. Type-writer eraser. No. 965,144; July 19; Sp. p. 4628; Gaz. vol. 156; p. 772.
Hygienic Refiner Company, The. (See Beeman, Clarence E., assignor.)
Hygenic Renovating Company. (See Clements and Hostler, assignors.)
Hygienic Soap Granulator Company. (See Clark, Robert G., assignor.)
Hygienic Soap Granulator Company. See Shaver, George F., assignor.)
Hygonnet, Auguste, assignor to Société Générale de Coutellerie et Orfèvrerie, Paris, France. Safety-razor. No. 950,820; Mar. 1; Sp. p. 775; Gaz. vol. 152; p. 123.
Hyland, George T., Round Rock, Tex. Churn. No. 955,074; Apr. 12; Sp. p. 2984; Gaz. vol. 153; p. 506.
Hylander, Charles E., assignor to The Duff Manufacturing Company, Pittsburg, Pa. Lifting-jack. No. 967,126; Aug. 9; Sp. p. 2794; Gaz. vol. 157; p. 456.
Hylander, Charles E., assignor to The Duff Manufacturing Company, Pittsburg, Pa. Lifting-jack. No. 977,450; Dec. 6; Sp. p. 49; Gaz. vol. 161; p. 10.
Hyle, Jacob A., Chicago, Ill. Combined railway-tie and track-fastener. No. 966,334; Aug. 2; Sp. p. 1013; Gaz. vol. 157; p. 164.
Hyle, William A. (See Schuyler and Hyle.)
Hylkema, George W., Volga, S. D. Paper-clip. No. 969,700; Sept. 6; Sp. p. 1157; Gaz. vol. 158; p. 187.
Hyman, Wallace M., New York, N. Y. Electric switchboard. No. 953,466; Mar. 29; Sp. p. 6214; Gaz. vol. 152; p. 1115.
Hymans, Frederick, Pittsburg, Pa., assignor to Otis Elevator Company, Jersey City, N. J. Slow-down attachment for hydraulic valves. No. 955,876; Apr. 26; Sp. p. 4753; Gaz. vol. 153; p. 841.
Hymer, George E. (See Maxwell and Hymer.)
Hynd, Alexander, Cleveland, Ohio. Hatch-fastener. No. 975,528; Nov. 15; Sp. p. 3233; Gaz. vol. 160; p. 551.
Hynes, John J., *et al.* (See Lenzi, Frank, assignor.)
Hynes, Louise E., assignor to Hynes Shade Guide Company, Los Angeles, Cal. Curtain-guide. No. 953,837; Apr. 5; Sp. p. 311; Gaz. vol. 153; p. 55.
Hynes Shade Guide Company. (See Everest, Laban J., assignor.)
Hynes Shade Guide Company. (See Hynes, Louise E., assignor.)
Hyre, David N., and J. W. Shirey, Los Angeles, Cal. Safety-holdback shaft-hook. No. 957,678; May 10; Sp. p. 2507; Gaz. vol. 154; p. 433.
Hysell, Benjamin F., and R. M. Cavedo, Middleport, Ohio. Brake head and shoe. No. 959,542; May 31; Sp. p. 6754; Gaz. vol. 154; p. 1149.
Hysong, Charles H., deceased, Pittsburg, Pa.; J. Taylor, administrator. Heater. No. 970,450; Sept. 13; Sp. p. 2770; Gaz. vol. 158; p. 466.
I. E. Palmer Co., The. (See Palmer, Isaac E., assignor.)
Iannelli, Joseph F., Brooklyn, N. Y., assignor of one-half to S. Peloso. Scarf-pin. No. 949,707; Feb. 15; Sp. p. 4003; Gaz. vol. 151; p. 696.
Ibson, John P., Denver, Colo. Kitchen utensil. No. 958,875; May 24; Sp. p. 5378; Gaz. vol. 154; p. 902.
Icre, Baptiste, New York, N. Y. Propeller for maritime and river navigation. No. 976,178; Nov. 22; Sp. p. 4612; Gaz. vol. 160; p. 794.
Idaho Holding Co. (See Hesse, George A., assignor.)
Ide, Albert D., Chicago, Ill. Device for dividing circles or arcs of circles. No. 948,172; Feb. 1; Sp. p. 796; Gaz. vol. 151; p. 132.
Ide, Daniel K. (See Blanchard, Uhl, and Koch, assignors.)
Ideal Carriage Washer and Automatic Water Saver Company. (See Gaylord, Edwin P., assignor.)
Ideal Concrete Machinery Company. (See Addicks, Diedrich C., assignor.)
Ideal Hat Frame Machine Company. (See Mann, Samuel, assignor.)
Ideal Manufacturing Company. (See McCarthy, John S., assignor.)
Ideal Motor Company. (See Holmes, Herbert G., assignor.)
Idone, Raffaele, Cleveland, Ohio. Hat-fastener. No. 963,371; July 5; Sp. p. 817; Gaz. vol. 156; p. 120.
Idstrom, William. (See Torjusen and Idstrom.)
Ielfield, Fred C., assignor to Columbia Postal Supply Company, Silver Creek, N. Y. Mail-marking machine. No. 949,275; Feb. 15; Sp. p. 3131; Gaz. vol. 151; p. 552.
Ifft, John, Zelienople, Pa. Monument or tombstone. No. 945,721; Jan. 4; Sp. p. 1539; Gaz. vol. 150; p. 239.
Ifft, John, Zelienople, Pa. Monument and tombstone. No. 963,572; July 5; Sp. p. 1229; Gaz. vol. 156; p. 188.
Igelstroem, John, Massillon, Ohio. Sign. No. 949,538; Feb. 15; Sp. p. 3692; Gaz. vol. 151; p. 641.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Potential switch. No. 973,508; Oct. 25; Sp. p. 4397; Gaz. vol. 159; p. 769.
Ihmsen, J. G., *et al.* (See Zabel, Max W., assignor.)
Iler, Franklin M., Denver, Colo. Pneumatic tool. No. 955,877; Apr. 26; Sp. p. 4757; Gaz. vol. 153; p. 842.
Iler, Franklin M., Denver, Colo. Disk pulverizer. No. 967,127; Aug. 9; Sp. p. 2795; Gaz. vol. 157; p. 458.
Ilg, Robert A., Chicago, Ill. Ventilating-fan. No. 957,776; May 10; Sp. p. 2714; Gaz. vol. 154; p. 465.
Ilges, Franz W., Cologne-Bayenthal, Germany. Apparatus for the uninterrupted separation of constituents. No. 968,478; Aug. 23; Sp. p. 5604; Gaz. vol. 157; p. 967.
Iliff, Ira I. (See Bowers, Doctor C., assignor.)
Iliff, John, Madison, Wis. Tie-tamping machine. No. 971,504; Sept. 27; Sp. p. 4961; Gaz. vol. 158; p. 869.
Illingworth, John, Newark, N. J. Vehicle-wheel. No. 969,536; Sept. 6; Sp. p. 825; Gaz. vol. 158; p. 130.
Illinois Concrete Machinery Company. (See Scott, Louis H., assignor.)
Illinois Heater and Manufacturing Company. (See Krump, Nicholas, assignor.)
Illinois Sewing Machine Company. (See Angove, Joseph B., assignor.)
Illinois Sewing Machine Company. (See Free, William C., assignor.)
Illinois Show Case Works. (See Servatius and Meinel, assignors.)
Illinois Stoker Company. (See Maxfield, Leroy H., assignor.)
Illy, John, Jamestown, N. Y. Method and apparatus for cleaning oil-wells. No. 968,851; Aug. 30; Sp. p. 6430; Gaz. vol. 157; p. 1121.
Imbert Process Company. (See Desgraz, Adolphe, assignor.)
Imbert Process Company. (See Fitz Gerald, Francis A. J., assignor.)
Imbert Process Company. (See Thomson, John, assignor.)
Imbert Process Company. (See Thomson and Fitz Gerald, assignors.)
Imboden, Isaac C., Cleona, Pa. Brace-chuck. No. 961,777; June 21; Sp. p. 3176; Gaz. vol. 155; p. 570.
Imbrie, Augustus F., San Francisco, Cal. Glove-reversing device. No. 960,937; June 7; Sp. p. 1389; Gaz. vol. 155; p. 234.

Alphabetical list of patentees—Continued.

Imbt, Milton. (See Rotzel and Imbt.)
Imhoff, Karl, Bredeney, near Essen, Germany. Treating sewage. No. 978,889; Dec. 20; Sp. p. 3151; Gaz. vol. 161; p. 560.
Imhoff, Max. (See Berg and Imhoff.)
Imig, Jacob P., San Jose, Ill. Farm-gate. No. 954,296; Apr. 5; Sp. p. 1282; Gaz. vol. 153; p. 212.
Imirie, John. (See Nielsen and Imirie.)
Immell, Omer F., Blair, Wis. Minnow-bait. No. 974,493; Nov. 1; Sp. p. 961; Gaz. vol. 160; p. 143.
Immermann, Otto, Halle-on-the-Saale, Germany. Fumigator. No. 977,312; Nov. 29; Sp. p. 7116; Gaz. vol. 160; p. 1211.
Immo, Axel, *et al.* (See Ostman, Joseph O., assignor.)
Imperial Car Shipbuilding and Dry Dock Corporation. (See Leigh, Frederick J., assignor.)
Imperial Stopper Company. (See Kirkegaard, Georg, assignor.)
Impey, Francis L., Birmingham, England, assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 979,673; Dec. 27; Sp. p. 4868; Gaz. vol. 161; p. 853.
Improved Carbureter Company. (See Henricks, Garrett W., assignor.)
Improved Construction Company Limited, The. (See Jagger, Peter B., assignor.)
Improved Paper Machinery Company. (See Parker, Howard, assignor.)
Improved Seamless Wire Company, The. (See Carlisle, Thomas F., assignor.)
Imrie, Andrew D., Andover, S. D. Drag-harrow. No. 952,251; Mar. 15; Sp. p. 3601; Gaz. vol. 152; p. 648.
Inbody, William S., McComb, Ohio. Hay-stacker. No. 959,543; May 31; Sp. p. 6755; Gaz. vol. 154; p. 1149.
Indahl, Mauritz C. (See Bancroft and Indahl.)
Independent Harvester Company. (See Boda, Joseph, assignor.)
Independent Harvester Company. (See Holsman, Henry K., assignor.)
Independent Harvester Company. (See Wunder, George E., assignor.)
Independent Manufacturing Company. (See Price, Max C., assignor.)
Independent Powder Company of Missouri. (See Talley, Herbert, assignor.)
Indiana Concrete Burial Vault Company. (See Smith, John H., assignor.)
Indiana Manufacturing Company, The. (See Brower, William W., assignor.)
Indiana Manufacturing Company, The. (See Connor, George F., assignor.)
Indiana Manufacturing Company, The. (See Goodison, John, assignor.)
Indiana Manufacturing Company, The. (See Harris, Albert M., assignor.)
Indiana Manufacturing Company, The. (See MacGregor, Wallace F., assignor.)
Indiana Manufacturing Company, The. (See Ruddell, Fredrick L., assignor.)
Indiana Manufacturing Company, The. (See Sattley, Frederick L., assignor.)
Indiana Manufacturing Company, The. (See Sharpe, Joseph K., Jr., assignor.)
Indiana Manufacturing Company, The. (See Walsh, James A., assignor.)
Indiana Picker & Husker Company. (See Kaull, Burt J., assignor.)
Indianapolis Corrugating Company. (See Bowers, Alonzo E., assignor.)
Indianapolis Switch and Frog Company, The. (See Price and Shaw, assignors.)
Industrial Engineering Company. (See Miller, Edgar S., assignor.)
Industrial Equipment Company. (See Roth, Harry L., assignor.)
Industrial Instrument Company, The. (See Bristol, Edgar H., assignor.)
Industrial Lumber Company. (See Philpot, Thomas G., assignor.)
Industrial Motor Company. (See Davy, Orrin J., assignor.)
Industriëele Maatschappij Trompenburg. (See Laviolette, Joseph V., assignor.)
Ingalls, Charles F., Laconia, N. H., assignor of one-third to F. L. Clifford, Melrose Highlands, Mass. Garter. No. 974,667; Nov. 1; Sp. p. 1336; Gaz. vol. 160; p. 207.
Ingalls, Scott E., Rupert, Idaho. Twine-tension device. No. 953,270; Mar. 29; Sp. p. 5791; Gaz. vol. 152; p. 1047.
Ingalls, William D., *et al.* (See Gould, Edward, assignor.)
Ingaramo, Tenedos, Zurich, Switzerland. Life-saving apparatus. No. 978,378; Dec. 13; Sp. p. 2076; Gaz. vol. 161; p. 362.
Ingels, Ray B., Caple, Okla. Bolt. No. 960,938; June 7; Sp. p. 1391; Gaz. vol. 155; p. 235.
Ingersoll, Emmett M., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Paper-carriage for type-writing machines. No. 953,385; Mar. 29; Sp. p. 6049; Gaz. vol. 152; p. 1087.
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Gibson, Arthur H., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
Ingersoll-Rand Company. (See Taylor, Albert H., assignor.)
Ingham, Charles R., assignor to Metal Plated Car & Lumber Company, Mahwah, N. J. Weather-strip. No. 960,331; June 7; Sp. p. 180; Gaz. vol. 155; p. 33.
Ingham, Clark L., *et al.* (See Willet, John G., assignor.)
Ingham, William, Chicago, Ill. Shower-bath mixer. No. 953,787; Apr. 5; Sp. p. 204; Gaz. vol. 153; p. 38.
Inghram, Howard T., Fairfield, Iowa. Air-brake coupling. No. 978,755; Dec. 13; Sp. p. 2894; Gaz. vol. 161; p. 490.
Ingle Manufacturing Company. (See Marvin, Henry S., assignor.)
Ingle, Nancy M., Chetopa, Kans. Air-cooling fan. No. 953,838; Apr. 5; Sp. p. 312; Gaz. vol. 153; p. 56.
Ingle, William H., Tacoma, Wash. Attachment for elevators. No. 970,925; Sept. 20; Sp. p. 3815; Gaz. vol. 158; p. 651.
Ingle, William H., Tacoma, Wash. Illuminated sign. No. 974,275; Nov. 1; Sp. p. 444; Gaz. vol. 160; p. 65.
Inglee, Clinton, Amityville, N. Y., assignor to National Water Main Cleaning Company. Pipe-cleaning device and piston therefor. No. 953,666; Mar. 29; Sp. p. 6639; Gaz. vol. 152; p. 1184.
Inglee, Lewis, Amityville, N. Y. Car-ticket holder. No. 953,953; Apr. 5; Sp. p. 530; Gaz. vol. 153; p. 96.
Inglee, Lewis, and C. M. Hart, Amityville, N. Y. Attachment for poison-bottles. No. 950,484; Mar. 1; Sp. p. 42; Gaz. vol. 152; p. 9.
Inglis, Edward, assignor of one-third to M. M. Mendenhall, Kofa, Ariz. Screening apparatus. No. 973,787; Oct. 25; Sp. p. 4979; Gaz. vol. 159; p. 866.
Inglis, William B., assignor of one-half to B. J. Duffy, Pawtucket, R. I. Spraying apparatus. No. 956,101; Apr. 26; Sp. p. 5229; Gaz. vol. 153; p. 919.
Inglish, Ross V., assignor to himself and G. G. Speechley, Alpena, Mich. Controlling device. No. 952,808; Mar. 22; Sp. p. 4813; Gaz. vol. 152; p. 866.
Ingold, Carl F., Milwaukee, Wis. Eyeglass-mounting. No. 946,968; Jan. 18; Sp. p. 4395; Gaz. vol. 150; p. 722.
Ingoldsby Automatic Car Company, The. (See Ingoldsby, Frank S., assignor.)
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Car. No. 973,788; Oct. 25; Sp. p. 4980; Gaz. vol. 159; p. 866.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. System of operating dump-cars. No. 977,876; Dec. 6; Sp. p. 994; Gaz. vol. 161; p. 156.
Ingraham, William H., St. Louis, Mo. Loose-leaf invoice and similar book. No. 966,098; Aug. 2; Sp. p. 539; Gaz. vol. 157; p. 88.
Ingrain, Louis. (See Richardson, Ernest, assignor.)
Ingram, Hezekiah, Wabbaseka, Ark. Whip-socket. No. 962,353; June 21; Sp. p. 4438; Gaz. vol. 155; p. 765.
Ingram, Milo E., Butler, Pa. Knife and scissors sharpener. No. 948,173; Feb. 1; Sp. p. 799; Gaz. vol. 151; p. 132.
Ingram, Oscar L., Walla Walla, Wash., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 972,862; Oct. 18; Sp. p. 2946; Gaz. vol. 159; p. 522.
Ingram, Thomas B., assignor of one-half to W. J. Gardner, Montgomery, Ala. Fertilizer-distributer. No. 952,252; Mar. 15; Sp. p. 3604; Gaz. vol. 152; p. 649.
Inland Manufacturing Company. (See Wallin, Gustaf E., assignor.)
Inman, Claude C., Grand Junction, Colo. Separator. No. 968,242; Aug. 23; Sp. p. 5143; Gaz. vol. 157; p. 885.
Inman, George W. (See Knowles and Inman.)
Inman, John P. (See Estes and Inman.)
Inman, Orion D. W., Janesville, Wis. Mold. No. 952,525; Mar. 22; Sp. p. 4174; Gaz. vol. 152; p. 768.
Inokuty, Ariya, Tokyo, Japan. Valveless pump. No. 973,353; Oct. 18; Sp. p. 4054; Gaz. vol. 159; p. 694.
Insull, Samuel. (See Ball, Henry P., assignor.)
Inter State Tube Company. (See Skirrow and Needham, assignors.)
Intercontinental Engineering Company. (See Trautschold, Reginald, assignor.)
Interlocking Fence Company. (See Baumgartner, Charles B., assignor.)
Interlocking Fence Company. (See Elwell and Grimm, assignors.)
Interlocking Fence Company. (See Elwell, Grimm, and Drexler, assignors.)
Interlocking Fence Company. (See Kitselman, Alva L., assignor.)
International Aerial Power Company. (See Schies, John, assignor.)
International Burglar Alarm Company. (See Butcher, James M., assignor.)

Alphabetical list of patentees—Continued.

International Device Company. (See Gibbon, Robert J., assignor.)
International Electric Company. (See Stevens, Alton E., assignor.)
International Electric Protection Company. (See Blackwell, Henry F., assignor.)
International Electric Protection Company. (See Goldstein, Albert, assignor.)
International Electric Protection Company. (See Goldstein and Pool, assignors.)
International Electric Protection Company. (See Pool, Clark H., assignor.)
International Engineering Company. (See Pollard, Edward T., assignor.)
International Filter Company, The. (See Gledhill and Belmer, assignors.)
International Flax Fiber Company. (See De Montlord, Georges R., assignor.)
International Gas Development Company. (See Benner and Kelterborn, assignors.)
International Harness Machinery Company, The. (See Gnoeth, Emil, assignor.)
International Harvester Company. (See Dennis, Samuel K., assignor.)
International Harvester Company. (See Dennis and Rice, assignors.)
International Harvester Company. (See Johnston, Edward A., assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
International Harvester Company. (See Rand, Charles A. A., assignor.)
International Harvester Company. (See Ryther, Frank A., assignor.)
International Harvester Company. (See Sharp, Charles S., assignor.)
International Harvester Company. (See Smith, Daniel W., assignor.)
International Harvester Company. (See Steward, John F., assignor.)
International Harvester Company. (See Stone, John A., assignor.)
International Metal Weather Strip Company. (See Haskell, Sprague F., assignor.)
International Nickel Company. (See Lansdowne, Elias T., assignor.)
International Nickel Company. (See Lawson, John, assignor.)
International Nickel Company. (See Thompson, John F., assignor.)
International Oil Gas Producer Company. (See McPherson, George J., assignor.)
International Paper Company. (See Fowler, Fred D., assignor.)
International Pavement Company, The. (See Hemstreet, George P., assignor.)
International Power Generator Company. (See Backstrom, Charles A., assignor.)
International Precipitation Company. (See Cottrell, Frederick G., assignor.)
International Railroad Automatic Safety Pipe Coupling Company, The. (See Harris, Adolphus H., assignor.)
International Roturbine Engine Company of America. (See Thompson, William H., Jr., assignor.)
International Silver Co. (See Shiels, John H., assignor.)
International Spring Motor Company, The. (See Hohenstein, Charles H. von, assignor.)
International Steam Pump Company. (See Fleming, Wills M., assignor.)
International Steam Pump Company. (See Valentine, Warren P., assignor.)
International Telegraph Construction Company. (See Midgley, Frederick W., assignor.)
International Telegraph Construction Company. (See Shoemaker, Harry, assignor.)
International Telephone Manufacturing Company. (See McCormick, William E., assignor.)
International Text Book Company. (See Hamilton, Henry M., assignor.)
International Text Book Company, The. (See Mitchell, William N., assignor.)
J., assignor.)
International Text Book Company. (See Tanner, Frank
International Text Book Company. (See Tanner and Jones, assignors.)
International Tool Steel Company. (See Shaw, William J., assignor.)
International Wrapping Machine Company. (See Jacobsen, Jens N., assignor.)
Internationale "Wasserstoff" Aktiengesellschaft. (See Messerschmitt, Anton, assignor.)
Interstate Chemical Company. (See Rose, William H., assignor.)
Interstate Pneumatic Tube Company. (See Needham, John T., assignor.)
Interstate Sanitation Company, The. (See Rooch, Edward, assignor.)
Inwood, Barbara C., New York, N. Y. Cocoa and chocolate pot attachment. No. 978,298; Dec. 13; Sp. p. 1916; Gaz. vol. 161; p. 335.
Inwood, Richard G., and G. N. Sigerfoose, assignors to National Wire Bound Box Company, South Bend, Ind. Staple forming and driving machine. No. 949,373; Feb. 15; Sp. p. 3350; Gaz. vol. 151; p. 586.
Iorio, Fortunato E., Mount Vernon, N. Y. Card-playing device. No. 974,970; Nov. 8; Sp. p. 2041; Gaz. vol. 160; p. 333.
Ippers, John W., New York, assignor of one-half to C. A. Roessel, Brooklyn, N. Y. Making engraved printing-rollers. No. 971,009; Sept. 20; Sp. p. 3964; Gaz. vol. 158; p. 678.
Ira Robbins Company. (See Robbins, Ira, assignor.)
Ireland, A. Bertsell and F. L., Norwich, N. Y. Sawing-machine. No. 959,221; May 24; Sp. p. 6076; Gaz. vol. 154; p. 1016.
Ireland, Frank L. (See Ireland, A. Bertsell and F. L.)
Ireland, George E., Dayton, Ohio. Gas or vapor engine. No. 963,573; July 5; Sp. p. 1231; Gaz. vol. 156; p. 188.
Ireland, William A., Newburgh, N. Y. Electric grinding-machine. No. 968,768; Aug. 30; Sp. p. 6273; Gaz. vol. 157; p. 1095.
Ireland, William H., Verndale, Minn. Sprayer. No. 955,405; Apr. 19; Sp. p. 3701; Gaz. vol. 153; p. 650.
Irey, Ralph G., Abilene, Kans. Washing-machine. No. 954,103; Apr. 5; Sp. p. 855; Gaz. vol. 153; p. 147.
Iron City Sanitary Manufacturing Company. (See Lose, William H., assignor.)
Iron Tire Pneumatic Wheel Company. (See Rutherford, John C., assignor.)
Iroquois Engineering Company. (See Boegen, John E., assignor.)
Iroquois Machine Company. (See Horton, James A., assignor.)
Irvin, John J., Bellwood, Pa. Draft-sill. No. 974,569; Nov. 1; Sp. p. 1141; Gaz. vol. 160; p. 172.
Irvine, Archibald J. (See Mills and Irvine.)
Irvine, S. C. (See Smith, Bernard O., assignor.)
Irvine, Wilson C., Gettysburg, S. D. Churn. No. 970,230; Sept. 13; Sp. p. 2338; Gaz. vol. 158; p. 394.
Irving, Adam H. (See Wilkinson and Irving.)
Irving, Andrew M., New York, N. Y., assignor of one-half to J. C. McFarland, Chicago, Ill. Terminal passenger-station and other railway structure. No. 953,169; Mar. 29; Sp. p. 5570; Gaz. vol. 152; p. 1015.
Irving, James A., assignor to Wizard Patent Developing Company, New York, N. Y. Toy top. No. 965,465; July 26; Sp. p. 5328; Gaz. vol. 156; p. 911.
Irving, John, Cardross, Scotland. Valve-gear. No. 948,976; Feb. 8; Sp. p. 2514; Gaz. vol. 151; p. 427.
Irving, John, Cardross, Scotland. Combined reciprocating and turbine engine installation. No. 956,357; Apr. 26; Sp. p. 5790; Gaz. vol. 153; p. 1007.
Irwin, Charles B. (See Stovall, Joseph R., assignor.)
Irwin, Frank L. (See Tesseyman and Irwin.)
Irwin, Frank L., and J. E. Tesseyman, assignors to The Ralston Steel Car Company, Columbus, Ohio. Railway-car. No. 977,405; Nov. 29; Sp. p. 7352; Gaz. vol. 160; p. 1243.
Irwin, George H., J. P. Cullon, and F. Knowlson, Lindsay, Ontario, Canada. Liquid-elevating apparatus. No. 979,957; Dec. 27; Sp. p. 5489; Gaz. vol. 161; p. 949.
Irwin, Harry R., Newport, Ky., and H. C. Chambers, Cincinnati, Ohio; said Chambers assignor to said Irwin. Water-motor. No. 951,913; Mar. 15; Sp. p. 2968; Gaz. vol. 152; p. 537.
Irwin, Herbert E., assignor of one-half to J. P. Irwin, Galesburg, Ill. Seal. No. 946,225; Jan. 11; Sp. p. 2660; Gaz. vol. 150; p. 444.
Irwin, J. P. (See Irwin, Herbert E., assignor.)
Irwin, Jesse B., Washington, Pa. Wrench. No. 954,964; Apr. 12; Sp. p. 2780; Gaz. vol. 153; p. 471.
Irwin, John, Philadelphia, Pa. Hat-pin. No. 967,924; Aug. 23; Sp. p. 4418; Gaz. vol. 157; p. 778.
Irwin, John H., Philadelphia, Pa. Sawing-machine. No. 974,971; Nov. 8; Sp. p. 2042; Gaz. vol. 160; p. 334.
Irwin, John T., London, England. Hot-wire electrical measuring instrument. No. 964,521; July 19; Sp. p. 3241; Gaz. vol. 156; p. 559.
Irwin, Leon, *et al.* (See Febiger, Henry B., assignor.)
Isaac, Archie, Tacoma, Wash. Fair-leader. No. 969,873; Sept. 13; Sp. p. 1582; Gaz. vol. 158; p. 272.
Isaacs, Isaac. (See Lombard, Charles A., assignor.)
Isaacs, Joel L., Red Bank, N. J. Wire fabric. No. 970,713; Sept. 20; Sp. p. 3377; Gaz. vol. 158; p. 579.
Isaacs, Mone R. (See Stafford, Charles S., assignor.)
Isaacs, Mone R., Philadelphia, Pa. Adhesive compound or sizing. No. 959,348; May 24; Sp. p. 6335; Gaz. vol. 154; p. 1059.
Isaacson, Edward, *et al.* (See Neuman, Isaac, assignor.)
Isaacson, Isaac L. (See Homme, Vollen, and Isaacson.)
Isachson, Norman, Mountain Home, Idaho. Device for lowering and hoisting head-gates for dams. No. 958,401; May 17; Sp. p. 4371; Gaz. vol. 154; p. 714.
Isakson, Karl J. A., Stockholm, Sweden. Speed retarding and reversing device. No. 957,509; May 10; Sp. p. 2163; Gaz. vol. 154; p. 374.
Isbell, George H., Hotchkissville, Conn. Scissors or shears. No. 946,918; Jan. 18; Sp. p. 4305; Gaz. vol. 150; p. 706.
Isbell, John, *et al.* (See Gregory, Joseph, assignor.)

Alphabetical list of patentees—Continued.

Isbell, John F., Salt Lake City, Utah. Ore-concentrator. No. 964,425; July 12; Sp. p. 3002; Gaz. vol. 156; p. 495.
Isbell, Sterling P., Ukiah, Cal. Salt-shaker. No. 979,500; Dec. 27; Sp. p. 4489; Gaz. vol. 161; p. 793.
Iselin, John H. (See Dukesmith, Frank H., assignor.)
Isenberger, Jacob N., assignor of one-fourth to W. H. Pfoutz and one-fourth to H. C. Shank, Lancaster, Pa. Mail-bag catching and delivering apparatus. No. 945,395; Jan. 4; Sp. p. 847; Gaz. vol. 150; p. 131.
Isham, Harry S., Belmar, N. J. Railway-tie and fastener. No. 978,890; Dec. 20; Sp. p. 3152; Gaz. vol. 161; p. 560.
Ishii, Shozaburo, Roslyn, N. Y. Fire-kindler. No. 975,868; Nov. 15; Sp. p. 3947; Gaz. vol. 160; p. 665.
Isidor, Joseph S., Newark, N. J. Bag-fastener. No. 952,198; Mar. 15; Sp. p. 3490; Gaz. vol. 152; p. 629.
Isidor, Joseph S., Newark, N. J. Bag-fastener. No. 954,735; Apr. 12; Sp. p. 2251; Gaz. vol. 153; p. 390.
Isidor, Joseph S., Newark, N. J. Bag-fastener. No. 954,736; Apr. 12; Sp. p. 2254; Gaz. vol. 153; p. 391.
Isidor, Joseph S., Newark, N. J. Spring hasp or catch. No. 954,737; Apr. 12; Sp. p. 2256; Gaz. vol. 153; p. 391.
Iske, Albert. (See Iske, Anthony and A.)
Iske, Anthony and A., Lancaster, Pa. Milk-protector. No. 952,253; Mar. 15; Sp. p. 3605; Gaz. vol. 152; p. 649.
Island, James S., Toronto, Ontario, Canada. Extracting or separating precious values from ores. No. 965,714; July 26; Sp. p. 5878; Gaz. vol. 156; p. 998.
Isleib, Charles F. (See Agel and Isleib.)
Isler, Max H. (See Scholl and Isler.)
Isler, Max H., Mannheim, and H. Wolff, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the Rhine, Germany. Anthracene compound and making it. No. 961,612; June 14; Sp. p. 2834; Gaz. vol. 155; p. 491.
Isles, Peter, Swissvale, Pa. Furnace-arch construction. No. 958,130; May 17; Sp. p. 3673; Gaz. vol. 154; p. 619.
Ismay, Matthew P., Newcastle-upon-Tyne, England. Filing loose sheets. No. 964,972; July 19; Sp. p. 4290; Gaz. vol. 156; p. 716.
Ison, Enoch, Central Lake, Mich. Adjustable ladder-base. No. 973,509; Oct. 25; Sp. p. 4402; Gaz. vol. 159; p. 769.
Israel, Homer W., Waukesha, Wis., assignor to Modern Steel Structural Company. Back-motion clutch for hoists. No. 972,451; Oct. 11; Sp. p. 2019; Gaz. vol. 159; p. 354.
Israelson, Gustave A. (See Gardner and Israelson.)
Ittner, Martin, Swansea, Ill. Kiln. No. 954,633; Apr. 12; Sp. p. 2008; Gaz. vol. 153; p. 354.
Iungerich, Calvin L., Harrisburg, Pa. Automatic stop-signal system. No. 955,406; Apr. 19; Sp. p. 3703; Gaz. vol. 153; p. 651.
Ivatts, Ernest A., assignor to Society Compagnie Generale de Phonographes Cinematographes et Appareils de Precision, Paris, France. Apparatus for the continuous drying of perforated kinematographic films. No. 948,731; Feb. 8; Sp. p. 2017; Gaz. vol. 151; p. 345.
Ivers, John W., assignor of one-third to W. A. Burdick, Oklahoma, and one-third to John T. Marshall, Perry, Okla. Dust-pan. No. 961,965; June 21; Sp. p. 3598; Gaz. vol. 155; p. 633.
Iversen, Jacob, Charlottenburg, Germany. Device for regulating the feeding of power in hoisting plants. No. 962,762; June 28; Sp. p. 5333; Gaz. vol. 155; p. 932.
Ives, Ernest C., Pueblo, Colo. Automatic lantern-regulator. No. 967,925; Aug. 23; Sp. p. 4419; Gaz. vol. 157; p. 778.
Ives, Frederic E., Weehawken, N. J. Colored photographic print and making same. No. 960,939; June 7; Sp. p. 1392; Gaz. vol. 155; p. 235.
Ivor, Barry, Chicago, Ill. Carbureter. No. 976,881; Nov. 29; Sp. p. 6161; Gaz. vol. 160; p. 1062.
Ivory, James W. (See Sawaya, Farris S., assignor.)
Ivory, James W., Philadelphia, Pa. Dental instrument for crown or cap holding. No. 979,501; Dec. 27; Sp. p. 4490; Gaz. vol. 161; p. 793.
Iwahori, Kichizo, Worcester, Mass. Hoist. No. 952,742; Mar. 22; Sp. p. 4665; Gaz. vol. 152; p. 844.
Iwanami, Takao, Washington, D. C. Straight-edge and holder. No. 975,956; Nov. 15; Sp. p. 4120; Gaz. vol. 160; p. 696.
Iwata, Yoshito, Brooklyn, N. Y. Toy. No. 968,057; Aug. 23; Sp. p. 4711; Gaz. vol. 157; p. 822.
Izer, Elmer E., Pomona, Cal. Irrigating-valve. No. 957,777; May 10; Sp. p. 2715; Gaz. vol. 154; p. 465.
J. Floersheim Co. (See Chapman, George T., assignor.)
J. Geo. Leyner Engineering Works Company, The. (See Leyner, John G., assignor.)
J. Johnston Company. (See Johnston, John, assignor.)
J. Samuel White and Company Limited. (See Carnt and Forster, assignors.)
J. Spaulding & Sons Company. (See Lougee, William S., assignor.)
J. Stevens Arms & Tool Company. (See Lewis, George S., assignor.)
J. Stevens Arms & Tool Company. (See Redfield, Edward E., assignor.)
J. Stone & Company Limited. (See Ralston, Gavin C., assignor.)
J. A. Engel & Company. (See Feldt, Ferdinand J., assignor.)
J. A. Fay & Egan Company. (See Thomas, John R., assignor.)
J. A. Fay & Egan Company. (See Thomas and Solen, assignors.)
J. B. Colt Company. (See Goodyear, Nelson, assignor.)
J. B. Colt Company. (See Shaw, Louis E., assignor.)
J. B. Stone Company. (See Conn, Joseph C., assignor.)
J. C. Blair Company. (See Ellis, William V., assignor.)
J. & C. Fischer. (See Mayer, Julian T., assignor.)
J. C. McCarty & Co. (See Lane, Willey B., assignor.)
J. D. Riedel Aktiengesellschaft. (See Gans, Robert, assignor.)
J. E. Mergott Company, The. (See Hiering and Fuller, assignors.)
J. E. Porter Co. (See Jacobs, William F., assignor.)
J. E. Porter Company. (See Yentzer, Francis M., assignor.)
J. G. Brill Company, The. (See Adams, Walter S., assignor.)
J. G. Brill Company, The. (See Bole, Samuel T., assignor.)
J. G. Brill Company, The. (See Bucknam, Ezra S., assignor.)
J. G. Brill Company, The. (See Bucknam and Kohler, assignors.)
J. G. Brill Company, The. (See Curwen, Samuel M., assignor.)
J. G. Brill Company, The. (See Howson, Henry, assignor.)
J. G. Brill Company, The. (See Kohler, George B., assignor.)
J. H. Day Company, The. (See Allison, Daniel K., assignor.)
J. H. Day Company, The. (See Day and Ward, assignors.)
J. H. McLain Company, The. (See Sodemann, Christian, W. G., assignor.)
J. H. Williams & Co. (See Amborn, George, assignor.)
J. J. Freeman Company, The. (See Scott, Lisle T., assignor.)
J. K. Rishel Furniture Co. (See Clark, Walter E., assignor.)
J. L. Mott Iron Works, The. (See Dithridge, Edward, assignor.)
J. L. Mott Iron Works, The. (See Moore, Charles H., assignor.)
J. L. Mott Iron Works, The. (See Whitmore, Daniel F., assignor.)
J. L. Owens Manufacturing Company. (See Owens, Richard L., assignor.)
J. M. Dodge Company, The. (See Johnston, Arthur C., assignor.)
J. M. Dodge Company, The. (See Waterman, Marcus B., assignor.)
J. M. Dodge Company, The. (See Wetherill, Richard W., assignor.)
J. & P. Coats. (See Riley, Thomas A., assignor.)
J. P. Devine Company. (See Eggert, William H., assignor.)
J. P. Devine Company. (See Moreau, Eugène, assignor.)
J. P. Karns Tunneling Machine Co. (See Karns, John P., assignor.)
J. P. Seeburg Piano Company. (See Nelson, Oscar, assignor.)
J. R. Clark Company, The. (See Kalgren, John E., assignor.)
J. V. Farwell Company. (See McLeod, Charles M., assignor.)
J. W. Moore Machine Company, The. (See Moore, Joseph W., assignor.)
J. W. Reedy Elevator Manufacturing Co. (See Forslund, Hugo W., assignor.)
J. W. Sefton Manufacturing Company. (See Ferres, Jeffrey T., assignor.)
J. W. York and Sons. (See Johnson, Alfred, assignor.)
Jabalquinto, Arturo J., Santiago, Chile. Automatic railway-switch. No. 966,212; Aug. 2; Sp. p. 800; Gaz. vol. 157; p. 126.
Jaburg, Hendricus J. J., Jr., Amsterdam, Netherlands. Electrode and making the same. No. 968,949; Aug. 30; Sp. p. 6629; Gaz. vol. 157; p. 1155.
Jaccard, Ami, assignor to T. E. La Montagne, New York, N. Y. Talking-machine. No. 978,891; Dec. 20; Sp. p. 3154; Gaz. vol. 161; p. 560.
Jaccard, Jules. (See Perdrisat, Charles, assignor.)
Jachimovicz, Szymon, San Francisco, assignor of one-half to M. Grodin, Oakland, Cal. Starting mechanism for explosion-engines. No. 974,972; Nov. 8; Sp. p. 2044; Gaz. vol. 160; p. 334.
Jaciuk, George, Chicago, Ill. Scrubbing-machine. No. 957,162; May 3; Sp. p. 1414; Gaz. vol. 154; p. 226.
Jacklin, Thomas G., Zinc, Ark. Wheel-scraper dumper. No. 955,878; Apr. 26; Sp. p. 4759; Gaz. vol. 153; p. 842.
Jackman, A. (See Burch, Marsden L., assignor.)
Jackman, Charles R., New London, Iowa. Concrete-mold. No. 958,402; May 17; Sp. p. 4373; Gaz. vol. 154; p. 714.
Jackson, Agnes A., administratrix. (See Jackson, John G.)
Jackson, Amanda O., St. Louis, Mo. Bed-pan. No. 953,954; Apr. 5; Sp. p. 531; Gaz. vol. 153; p. 96.
Jackson, Arthur C., assignor to Miller Lock Co., Philadelphia, Pa. Lock. No. 952,254; Mar. 15; Sp. p. 3607; Gaz. vol. 152; p. 649.

Alphabetical list of patentees—Continued.

Jackson, Birney W., New York, N. Y. Meat-clamp. No. 949,900; Feb. 22; Sp. p. 4469; Gaz. vol. 151; p. 799.
Jackson, Charles E. (See Hoglund, John F., assignor.)
Jackson, Charles E., assignor of one-half to himself and one-half to J. H. Spiker, Bushnell, Ill. Vehicle-brake. No. 956,809; May 3; Sp. p. 869; Gaz. vol. 154; p. 138.
Jackson, Charles W. (See Doyle, Patrick J., assignor.)
Jackson, Coke. (See Matson, Emanuel E., assignor.)
Jackson, Corwill, Denver, Colo., assignor to Northern Electrical Manufacturing Company, Madison, Wis. Power-hammer. No. 952,255; Mar. 15; Sp. p. 3607; Gaz. vol. 152; p. 649.
Jackson Cushion Edge Company. (See Hampton, Frank H., assignor.)
Jackson Cushion Spring Co. (See Smith, Watson R., assignor.)
Jackson, David M., and L. Fleischbein, Bloomington, Ill. Sand-drier. No. 948,330; Feb. 8; Sp. p. 1144; Gaz. vol. 151; p. 210.
Jackson, Dugald C., Madison, Wis. Dynamo-machine. No. 960,093; May 31; Sp. p. 7958; Gaz. vol. 154; p. 1337.
Jackson, Dugald C., assignor to D. C. and W. B. Jackson, Madison, Wis. Power-driven machinery. No. 961,353; June 14; Sp. p. 2297; Gaz. vol. 155; p. 406.
Jackson, Dugald C., assignor to D. C. and W. B. Jackson, Madison, Wis. Electricity-meter. No. 962,222; June 21; Sp. p. 4152; Gaz. vol. 155; p. 721.
Jackson, Erskine H. (See Belknap and Jackson.)
Jackson, Frank, Mountain Home, Idaho. Amusement device. No. 955,407; Apr. 19; Sp. p. 3704; Gaz. vol. 153; p. 651.
Jackson, Frank, Chicago, Ill. Skinning-tool. No. 964,865; July 19; Sp. p. 4076; Gaz. vol. 156; p. 679.
Jackson, Frederick W., *et al.* (See Sidney, William E., assignor.)
Jackson, George E., Newton, Iowa. Baling-press. No. 967,926; Aug. 23; Sp. p. 4420; Gaz. vol. 157; p. 778.
Jackson, George E., Newton, Iowa. Baling-press. No. 971,616; Oct. 4; Sp. p. 231; Gaz. vol. 159; p. 41.
Jackson, George W., Chicago, Ill. Subway. No. 948,451; Feb. 8; Sp. p. 1408; Gaz. vol. 151; p. 251.
Jackson, George W., Chicago, Ill. Constructing tunnels in the earth. No. 960,940; June 7; Sp. p. 1394; Gaz. vol. 155; p. 235.
Jackson, George W., Chicago, Ill. Constructing concrete and like walls in the earth. No. 960,941; June 7; Sp. p. 1398; Gaz. vol. 155; p. 235.
Jackson, George W., Chicago, Ill. Subway-ventilator. No. 974,151; Nov. 1; Sp. p. 87; Gaz. vol. 160; p. 18.
Jackson, Henry O., Norfolk, Va., assignor to Southern Savings Life & Accident Insurance Company. Automatic coin-controlled vending-machine for insurance-policies, tickets, and the like. No. 952,809; Mar. 22; Sp. p. 4814; Gaz. vol. 152; p. 866.
Jackson, Hiram L., Colfax, Iowa. Railway-box-car loader. No. 957,885; May 17; Sp. p. 2937; Gaz. vol. 154; p. 532.
Jackson, Isaac, Glossop, England. Belt-fastener. No. 978,025; Dec. 6; Sp. p. 1297; Gaz. vol. 161; p. 208.
Jackson, Jacob, Green Bay, Wis. Animal-trap. No. 955,075; Apr. 12; Sp. p. 2985; Gaz. vol. 153; p. 506.
Jackson, James M., Denver, Colo. Device for crimping explosive caps. No. 954,297; Apr. 5; Sp. p. 1284; Gaz. vol. 153; p. 212.
Jackson, James W., assignor of one-fourth to J. Spruell and one-fourth to S. A. Jackson, Capron, Va. Car-coupling attachment. No. 948,096; Feb. 1: Sp. p. 663; Gaz. vol. 151; p. 107.
Jackson, John. (See Munson and Jackson.)
Jackson, John, Chicago, Ill. Book-marker. No. 957,465; May 10; Sp. p. 2074; Gaz. vol. 154; p. 359.
Jackson, John A., Chicago, Ill. Friction draft-gear. No. 952,672; Mar. 22; Sp. p. 4515; Gaz. vol. 152; p. 820.
Jackson, John A., assignor of one-half to D. L. Phipps, Chicago, Ill. Coupling-yoke. No. 946,603; Jan. 18; Sp. p. 3561; Gaz. vol. 150; p. 599.
Jackson, John A., assignor of one-half to D. L. Phipps, Chicago, Ill. Draft-rigging. No. 967,385; Aug. 16; Sp. p. 3311; Gaz. vol. 157; p. 573.
Jackson, John G., deceased, Dunlo, Pa.; A. A. Jackson, administratrix. Emergency-coupling. No. 969,142; Aug. 30; Sp. p. 7025; Gaz. vol. 157; p. 1222.
Jackson, John L., River Forest, Ill. Wheel. No. 959,058; May 24; Sp. p. 5728; Gaz. vol. 154; p. 962.
Jackson, John W., Moose Jaw, Saskatchewan, Canada. Traction-engine gang-plow. No. 950,535; Mar. 1; Sp. p. 157; Gaz. vol. 152; p. 26.
Jackson, Joseph R. (See Fortas and Jackson.)
Jackson, Lafayette J., East St. Louis, Ill. Reinforced-concrete railway cross-tie. No. 961,697; June 14; Sp. p. 2995; Gaz. vol. 155; p. 519.
Jackson, Laird J., assignor to F. Searight, Pittsburg, Pa. Draft mechanism. No. 955,805; Apr. 19; Sp. p. 4551; Gaz. vol. 153; p. 786.
Jackson, Laird J., assignor to R. M. Miller, Pittsburg, Pa. Equalizing draft-gearing. No. 968,158; Aug. 23; Sp. p. 4964; Gaz. vol. 157; p. 856.
Jackson, Laird J., assignor to R. M. Miller, Pittsburg, Pa. Sad-iron heater. No. 968,159; Aug. 23; Sp. p. 4965; Gaz. vol. 157; p. 857.
Jackson, Mark A., Philadelphia, Pa. Roof. No. 955,165; Apr. 19; Sp. p. 3164; Gaz. vol. 153; p. 569.
Jackson, Merrill S., Hartford, Conn. Collapsible form. No. 979,958; Dec. 27; Sp. p. 5490; Gaz. vol. 161; p. 949.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control for alternating-direct-current motors. No. 967,386; Aug. 16; Sp. p. 3314; Gaz. vol. 157; p. 574.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control for alternating-direct-current motors. No. 967,387; Aug. 16; Sp. p. 3323; Gaz. vol. 157; p. 575.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical cut-out device. No. 967,388; Aug. 16; Sp. p. 3333; Gaz. vol. 157; p. 575.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-direct-current system of control. No. 967,389; Aug. 16; Sp. p. 3334; Gaz. vol. 157; p. 575.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-circuit interrupter. No. 975,431; Nov. 15; Sp. p. 3026; Gaz. vol. 160; p. 516.
Jackson, Ray P., and H. M. Schelbe, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electric apparatus. No. 959,544; May 31; Sp. p. 6757; Gaz. vol. 154; p. 1150.
Jackson, Samuel, New York, N. Y. Machine for making metal tubing. No. 953,955; Apr. 5; Sp. p. 532; Gaz. vol. 153; p. 96.
Jackson, Samuel J., Pleasanton, Cal. Automatic pump. No. 960,942; June 7; Sp. p. 1402; Gaz. vol. 155; p. 236.
Jackson, Sandy A., *et al.* (See Jackson, James W., assignor.)
Jackson, Simeon S., assignor to The Geo. W. Stafford Company, Readville, Mass. Pick-finder device for looms. No. 945,722; Jan. 4; Sp. p. 1541; Gaz. vol. 150; p. 239.
Jackson, Simeon S., assignor to The Stafford Company, Readville, Mass. Weft-replenishing loom. No. 951,246; Mar. 8; Sp. p. 1574; Gaz. vol. 152; p. 283.
Jackson, Thomas J., assignor of one-fourth to S. F. Karnes and one-fourth to R. Jones, Grand Junction, Colo. Refrigerator. No. 945,542; Jan. 4; Sp. p. 1156; Gaz. vol. 150; p. 179.
Jackson, Uriah S., Ossipee, N. H. Float tide-mill. No. 961,410; June 14; Sp. p. 2393; Gaz. vol. 155; p. 423.
Jackson, Walter E., Lincoln, Nebr. Combination ruler and blotter-holder. No. 955,879; Apr. 26; Sp. p. 4760; Gaz. vol. 153; p. 842.
Jackson, Walter M., deceased, Stamford, Conn., (J. M. Anderson, administrator,) assignor of three-fourths to W. Ferguson, New York, N. Y. Storage battery. No. 947,238; Jan. 25; Sp. p. 4919; Gaz. vol. 150; p. 839.
Jackson, Walter S., Waterville, Me. Safety device for railway-cars. No. 970,231; Sept. 13; Sp. p. 2339; Gaz. vol. 158; p. 394.
Jackson, William B., *et al.* (See Jackson, Dugald C., assignor.)
Jackson, William H., Palisade, N. J. Time-recording apparatus. No. 966,553; Aug. 9; Sp. p. 1550; Gaz. vol. 157; p. 263.
Jackson, William L., Brookland, D. C. Device for supporting milk-bottles. No. 958,131; May 17; Sp. p. 3674; Gaz. vol. 154; p. 619.
Jackson, William M., Gastonia, N. C. Telegraph instrument. No. 954,298; Apr. 5; Sp. p. 1285; Gaz. vol. 153; p. 212.
Jackson, William M., Middlebury, Vt. Safety portable rubbish-burner. No. 962,148; June 21; Sp. p. 4014; Gaz. vol. 155; p. 697.
Jackson, William S., *et al.* (See Anck, John H., assignor.)
Jackson, Wilton D., Philadelphia, Pa. Fusee. No. 960,094; May 31; Sp. p. 7962; Gaz. vol. 154; p. 1337.
Jackulvis, Anthony G., Fort Totten, N. Y. Unicycle. No. 948,859; Feb. 8; Sp. p. 2280; Gaz. vol. 151; p. 387.
Jacob, Francis M., Columbus, Miss. Extension service-box. No. 954,437; Apr. 12; Sp. p. 1560; Gaz. vol. 153; p. 287.
Jacob, Frederick, Newark, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 961,135; June 14; Sp. p. 1801; Gaz. vol. 155; p. 327.
Jacob, Heinrich, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Stereotelescope. No. 972,622; Oct. 11; Sp. p. 2432; Gaz. vol. 159; p. 415.
Jacob & Sons, H. (See Straub, Albert, assignor.)
Jacobi, Carl. (See Wachsmundt, Kurz, and Jacobi.)
Jacobi, Frederick W., Chicago, Ill. Device for inseam measurements. No. 949,931; Feb. 22; Sp. p. 4533; Gaz. vol. 151; p. 809.
Jacobi, Hugo, Leipzig, Germany. Apparatus for the automatic opening and closing of pipes, valves, &c., at fixed intervals. No. 957,341; May 10; Sp. p. 1830; Gaz. vol. 154; p. 319.
Jacobie, Charles W. (See Jacobie, Walter L., assignor.)
Jacobie, Walter L., assignor, by mesne assignments, to C. W. Jacobie, Glens Falls, N. Y. Backing-strip-applying machine. No. 960,332; June 7; Sp. p. 181; Gaz. vol. 155; p. 33.
Jacobs, Arthur E., Cleveland, Ohio. Registering-bank. No. 964,025; July 12; Sp. p. 2203; Gaz. vol. 156; p. 362.

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Jacobs, Arthur E., Cleveland, Ohio. Toy cash-register. No. 964,026; July 12; Sp. p. 2206; Gaz. vol. 156; p. 362.

Jacobs, Arthur L., assignor, by mesne assignments, to J. M. Jacobs, Boston, Mass. Casing for electric-lamp sockets. No. 956,970; May 3; Sp. p. 1029; Gaz. vol. 154; p. 161.

Jacobs, Benjamin F. C., West Elizabeth, and E. L. Lindroth, Wilson, Pa. Floor grinder and polisher. No. 948,174; Feb. 1; Sp. p. 800; Gaz. vol. 151; p. 133.

Jacobs, Charles B., Port Chester, assignor to Murray and Jacobs Manufacturing Company, New York, N. Y. Resistant surface and making the same. No. 954,965; Apr. 12; Sp. p. 2781; Gaz. vol. 153; p. 471.

Jacobs, Charles B., Port Chester, assignor to Murray and Jacobs Manufacturing Company, New York, N. Y. Tread-surface for pavements and the like. No. 954,966; Apr. 12; Sp. p. 2784; Gaz. vol. 153; p. 471.

Jacobs, Charles B., Port Chester, assignor to Murray and Jacobs Manufacturing Company, New York, N. Y. Stair-tread. No. 954,967; Apr. 12; Sp. p. 2787; Gaz. vol. 153; p. 472.

Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Weatherproof high-tension fuse. No. 947,239; Jan. 25; Sp. p. 4925; Gaz. vol. 150; p. 839.

Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Time-limit relay. No. 963,897; July 12; Sp. p. 1942; Gaz. vol. 156; p. 319.

Jacobs, Fred M. (See Stewart, Howard D., assignor.)

Jacobs, Gaskell S., Berkeley, Cal. Lock for fluid-cocks. No. 963,226; July 5; Sp. p. 504; Gaz. vol. 156; p. 71.

Jacobs, George, assignor to The McCaskey Register Company, Alliance, Ohio. Bill-filing cabinet. No. 966,448; Aug. 9; Sp. p. 1273; Gaz. vol. 157; p. 229.

Jacobs, Henry C., Glasco, Kans. Wire stretcher and splicer. No. 961,237; June 14; Sp. p. 2024; Gaz. vol. 155; p. 365.

Jacobs, Henry M., Eureka, Utah. Pneumatic-hammer support. No. 955,166; Apr. 19; Sp. p. 3166; Gaz. vol. 153; p. 569.

Jacobs, Henry W. (See Buck and Jacobs.)

Jacobs, Henry W., Topeka, Kans. Superheater. No. 948,331; Feb. 8; Sp. p. 1144; Gaz. vol. 151; p. 210.

Jacobs, Henry W., Topeka, Kans. Crane. No. 956,856; May 3; Sp. p. 781; Gaz. vol. 154; p. 123.

Jacobs, Henry W., Topeka, Kans. Tool-driving mechanism. No. 959,863; May 31; Sp. p. 7431; Gaz. vol. 154; p. 1257.

Jacobs, Henry W., Topeka, Kans. Rail drilling and reaming machine. No. 966,751; Aug. 9; Sp. p. 1998; Gaz. vol. 157; p. 333.

Jacobs, Henry W., Topeka, Kans. Friction screw-driver. No. 966,835; Aug. 9; Sp. p. 2182; Gaz. vol. 157; p. 359.

Jacobs, Henry W., Topeka, Kans. Laying railway-tracks. No. 966,836; Aug. 9; Sp. p. 2183; Gaz. vol. 157; p. 359.

Jacobs, Henry W., Topeka, Kans. Laying railway-tracks. No. 966,837; Aug. 9; Sp. p. 2184; Gaz. vol. 157; p. 359.

Jacobs, Henry W., Topeka, Kans. Flanging-press. No. 972,195; Oct. 11; Sp. p. 1489; Gaz. vol. 159; p. 265.

Jacobs, Henry W., Topeka, Kans. Steam-superheater. No. 973,662; Oct. 25; Sp. p. 4736; Gaz. vol. 159; p. 822.

Jacobs, Henry W., Topeka, Kans. Blow-off valve. No. 973,663; Oct. 25; Sp. p. 4739; Gaz. vol. 159; p. 823.

Jacobs, Henry W., Topeka, Kans. Track-car and tool-driving machine. No. 975,042; Nov. 8; Sp. p. 2193; Gaz. vol. 160; p. 357.

Jacobs, Henry W., and H. H. Lanning, Topeka, Kans. Friction-clutch. No. 975,621; Nov. 15; Sp. p. 3428; Gaz. vol. 160; p. 582.

Jacobs, Jehu, Henley, Cal. Penholder. No. 976,805; Nov. 22; Sp. p. 5981; Gaz. vol. 160; p. 1010.

Jacobs, Jennie M. (See Jacobs, Arthur L., assignor.)

Jacobs, John, Cass county, N. D. Grain-separator. No. 965,190; July 26; Sp. p. 4723; Gaz. vol. 156; p. 818.

Jacobs, John J., New York, N. Y. Buckle or elastic link. No. 969,060; Aug. 30; Sp. p. 6853; Gaz. vol. 157; p. 1192.

Jacobs, Max, Wilkes-Barre, Pa. Optical table. No. 978,299; Dec. 13; Sp. p. 1917; Gaz. vol. 161; p. 335.

Jacobs, Morris, New York, N. Y. Self-locking nut. No. 959,222; May 24; Sp. p. 6082; Gaz. vol. 154; p. 1017.

Jacobs, Olaus B., assignor of two-ninths to E. C. Mullendore, Cleveland, Okla. Rotary engine. No. 969,957; Sept. 13; Sp. p. 1750; Gaz. vol. 158; p. 300.

Jacobs, William F., Ottawa, Ill. Expansion-plunger for pump-cylinders. No. 965,466; July 26; Sp. p. 5330; Gaz. vol. 156; p. 911.

Jacobs, William F., assignor to J. E. Porter Co., Ottawa, Ill. Barn-door hanger. No. 949,076; Feb. 15; Sp. p. 2729; Gaz. vol. 151; p. 485.

Jacobs, Wolf, and P. Forschler, New Orleans, La. Suspender-buckle. No. 952,619; Mar. 22; Sp. p. 4393; Gaz. vol. 152; p. 802.

Jacobsen, Jens N., assignor to International Wrapping Machine Company, Eureka, Cal. Wrapping-machine. No. 952,256; Mar. 15; Sp. p. 3610; Gaz. vol. 152; p. 650.

Jacobson, Axel E. (See Fraser and Jacobson.)

Jacobson-Brandow Company. (See Jacobson, Edward B., assignor.)

Jacobson, Edward B., assignor to Jacobson-Brandow Company, Pittsfield, Mass. Vibrator for spark-coils. No. 950,105; Feb. 22; Sp. p. 4941; Gaz. vol. 151; p. 870.

Jacobson, Edward B., assignor to Jacobson-Brandow Company, Pittsfield, Mass. Adjustment-micrometer for spark-coils. No. 968,358; Aug. 23; Sp. p. 5372; Gaz. vol. 157; p. 927.

Jacobson, Elmer. (See Luna, Joseph C., assignor.)

Jacobson, Harry, Chicago, Ill. Receptacle-cover fastener. No. 962,898; June 28; Sp. p. 5595; Gaz. vol. 155; p. 979.

Jacobson, John. (See Willoughby and Jacobson.)

Jacobson, Julius, Berlin, Germany. Winding device. No. 975,133; Nov. 8; Sp. p. 2395; Gaz. vol. 160; p. 388.

Jacobson, Peter, Chicago, Ill., assignor to The Singer Manufacturing Company. Sewing-machine attachment. No. 968,852; Aug. 30; Sp. p. 6432; Gaz. vol. 157; p. 1121.

Jacobus, Charles, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf-club. No. 974,888; Nov. 8; Sp. p. 1828; Gaz. vol. 160; p. 304.

Jacobus, Clarence W. (See Bready, Joseph W., assignor.)

Jacoby, William L., and F. B. Bell, Chicago Heights, Ill. Wheel. No. 974,798; Nov. 8; Sp. p. 1622; Gaz. vol. 160; p. 273.

Jacques, John S., Hingham, Mass. Pneumatic-despatch-tube apparatus. No. 974,799; Nov. 8; Sp. p. 1626; Gaz. vol. 160; p. 273.

Jaeger, C. T., *et al.* (See Farkas, C., assignor.)

Jaeger, Carl L., Mahwah, N. J. Recording device. No. 955,167; Apr. 19; Sp. p. 3168; Gaz. vol. 153; p. 569.

Jaeger, Fritz, Magdeburg, and A. Siewert, Wilmersdorf, near Berlin, Germany. Portable extensible and retractable mast. No. 980,157; Dec. 27; Sp. p. 5946; Gaz. vol. 161; p. 1015.

Jaeger, Gebhard. (See Keny, William L., assignor.)

Jaeger, H. J., *et al.* (See Farkas, C., assignor.)

Jaeger, John, Denver, Colo. Holder for garden-hose. No. 961,297; June 14; Sp. p. 2161; Gaz. vol. 155; p. 386.

Jaeger, Ludwig, assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 971,894; Oct. 4; Sp. p. 824; Gaz. vol. 159; p. 142.

Jaeger, Maximillian, New London, Conn., assignor of one-half to W. F. Sword, Providence, R. I. Clutch-grip mandrel. No. 975,043; Nov. 8; Sp. p. 2196; Gaz. vol. 160; p. 357.

Jaeger, Michael, Darmstadt, Germany. Animal-trap. No. 963,574; July 5; Sp. p. 1232; Gaz. vol. 156; p. 189.

Jaeger, Paul, Stuttgart, Germany. Liquid coating composition. No. 953,621; Mar. 29; Sp. p. 6545; Gaz. vol. 152; p. 1169.

Jaegermann, Rudolph, St. Louis, Mo. Electric clock. No. 959,864; May 31; Sp. p. 7433; Gaz. vol. 154; p. 1257.

Jaek, Carl, Berlin, Germany. Manufacturing printing-rollers. No. 970,830; Sept. 20; Sp. p. 3644; Gaz. vol. 158; p. 622.

Jaekle, Gustav, Basel, assignor to Aktiengesellschaft für den Vertrieb von Kuchengeschirr-Spühlapparaten "Triumph," Zurich, Switzerland. Dish-cleaner. No. 962,763; June 28; Sp. p. 5335; Gaz. vol. 155; p. 932.

Jaenichen, Louis, assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Scale. No. 966,554; Aug. 9; Sp. p. 1561; Gaz. vol. 157; p. 265.

Jaenichen, Louis, assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Spring-scale. No. 978,026; Dec. 6; Sp. p. 1299; Gaz. vol. 161; p. 208.

Jaentsch, Carl. (See Körtling and Jaentsch.)

Jaffee, Hermann, Hoboken, N. J., and E. M. Dörstewitz, New York, N. Y. Antiseptic body germ protector. No. 966,838; Aug. 9; Sp. p. 2185; Gaz. vol. 157; p. 359.

Jager, Frank, Chicago, assignor of one-half to H. A. Christy, Kenilworth, Ill. Box. No. 955,880; Apr. 26; Sp. p. 4761; Gaz. vol. 153; p. 842.

Jagersberger, Joseph, and A. Zemann, New York, N. Y. Rotary engine. No. 947,430; Jan. 25; Sp. p. 5402; Gaz. vol. 150; p. 905.

Jagger, Peter B., assignor to The Improved Construction Company Limited, London, England. Manufacturing concrete slabs, beams, pipes, and other concrete articles. No. 967,196; Aug. 16; Sp. p. 2942; Gaz. vol. 157; p. 508.

Jahn, Edwin P., Boston, Mass. Terminal connection. No. 968,950; Aug. 30; Sp. p. 6630; Gaz. vol. 157; p. 1155.

Jahnke, Albert A., Oakland, Cal. Explosive-driven engine. No. 961,966; June 21; Sp. p. 3599; Gaz. vol. 155; p. 633.

Jahnke, Albert A., assignor of one-half to S. C. Tate, San Francisco, Cal. Wireless-telephone transmitter. No. 948,609; Feb. 8; Sp. p. 1754; Gaz. vol. 151; p. 303.

Jahnke, Fred A., assignor to Minneapolis Motor & Truck Co., Minneapolis, Minn. Lubricating device for gas-engines. No. 946,133; Jan. 11; Sp. p. 2463; Gaz. vol. 150; p. 411.

Jahnz, Erwin, Berlin, assignor to Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien, Braunschweig, Brunswick, Germany. Calculating-machine. No. 946,367; Jan. 11; Sp. p. 3071; Gaz. vol. 150; p. 494.

Jahnz, Erwin, Berlin, assignor to Grimme, Natalis & Co., Kommanditgesellschaft, auf Aktien, Braunschweig, Brunswick, Germany. Calculating-machine. No. 952,257; Mar. 15; Sp. p. 3617; Gaz. vol. 152; p. 650.

Jahnz, Erwin, Berlin, asisgnor to Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien, Braunschweig, Brunswick, Germany. Calculating-machine. No. 953,622; Mar. 29; Sp. p. 6546; Gaz. vol. 152; p. 1169.

Alphabetical list of patentees—Continued.

Jahnz, Erwin, Berlin, assignor to Grimme, Natalis & Co. Kommanditgesellschaft auf Aktien, Braunschweig, Brunswick, Germany. Calculating-machine. No. 957,062; May 3; Sp. p. 1212; Gaz. vol. 154; p. 192.
Jahr G. m. b. H., Moritz. (See Güngerich, Paul, assignor.)
Jahr, Otto, Untermhaus, near Gera-Reuss, Germany. Barrel filling or tapping device. No. 958,403; May 17; Sp. p. 4375; Gaz. vol. 154; p. 715.
Jakab, Ladislaus, South Bend, Ind. Cuspidor. No. 972,081; Oct. 4; Sp. p. 1233; Gaz. vol. 159; p. 209.
Jake, Robert, Rockyridge, Ohio. Spark-plug. No. 961,136; June 14; Sp. p. 1804; Gaz. vol. 155; p. 328.
Jakob, Fred, Bartley, Nebr. Quilting-frame. No. 957,561; May 10; Sp. p. 2269; Gaz. vol. 154; p. 393.
Jakobsen, Jakob A., Esbjerg, Denmark. Life-saving apparatus. No. 971,273; Sept. 27; Sp. p. 4539; Gaz. vol. 158; p. 794.
Jakobson, Adolph S., New York, N. Y. Musical garden ornament. No. 951,611; Mar. 8; Sp. p. 2328; Gaz. vol. 152; p. 403.
Jakobsson, Herman G. (See Meigs and Jakobsson.)
Jaksick, John, Lakewood, Ohio. Sash-fastening device. No. 974,570; Nov. 1; Sp. p. 1142; Gaz. vol. 160; p. 172.
Jakway, William H., Syracuse, N. Y. Vacuum cleaning apparatus. No. 970,232; Sept. 13; Sp. p. 2342; Gaz. vol. 158; p. 395.
James Barrett Manufacturing Company. (See O'Brien, Patrick J., assignor.)
James Boyd & Brother. (See Rowbotham, John, assignor.)
James, Charles. (See Roberts, Bellamy, and James.)
James, David, assignor to Burke & James, Chicago, Ill. Carrier for stereopticons. No. 952,199; Mar. 15; Sp. p. 3496; Gaz. vol. 152; p. 629.
James F. Kelly Company, *et al.* (See Small, William E., assignor.)
James, Frank D., Seattle, Wash. Engine-starting mechanism. No. 959,014; May 24; Sp. p. 5641; Gaz. vol. 154; p. 948.
James, George C., Fairmont, Nebr. Chicken-perch. No. 974,386; Nov. 1; Sp. p. 692; Gaz. vol. 160; p. 105.
James H. Sager Company. (See Sager, James H., assignor.)
James, Harry P., Dayton, Ohio. Hydrant-casing. No. 964,784; July 19; Sp. p. 3920; Gaz. vol. 156; p. 651.
James, Henry D., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric-circuit controller. No. 947,336; Jan. 25; Sp. p. 5185; Gaz. vol. 150; p. 874.
James, Henry D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-motor control. No. 974,152; Nov. 1; Sp. p. 88; Gaz. vol. 160; p. 18.
James, James F., Chattanooga, Tenn. Adjustable basket-grate. No. 955,269; Apr. 19; Sp. p. 3397; Gaz. vol. 153; p. 604.
James, John B., Ely, England. Collapsible stand for lifting barrels, boxes, and the like. No. 972,863; Oct. 18; Sp. p. 2948; Gaz. vol. 159; p. 523.
James L. Howard & Company. (See Howard, Frank E., assignor.)
James Lowe Erskine Co., The. (See Erskine, James L., assignor.)
James Ore Concentrator Company. (See James, Ulysses S., assignor.)
James Pott & Co. (See Duryea, Charles R., assignor.)
James Scott & Sons *et al.* (See Boyd, John, assignor.)
James, Ulysses S., assignor to James Ore Concentrator Company, Newark, N. J. Ore-concentrator. No. 968,951; Aug. 30; Sp. p. 6632; Gaz. vol. 157; p. 1155.
James, Walter W., Atwell, Tex. Cotton-gin. No. 977,194; Nov. 29; Sp. p. 6899; Gaz. vol. 160; p. 1172.
James, William D., Fort Atkinson, Wis. Yoke-tie for cattle. No. 949,768; Feb. 22; Sp. p. 4156; Gaz. vol. 151; p. 751.
James, William P., Los Angeles, Cal. Protractor-level. No. 970,714; Sept. 20; Sp. p. 3379; Gaz. vol. 158; p. 580.
James, William S., Altoona, Pa. Mail-bag delivery and catching apparatus. No. 973,510; Oct. 25; Sp. p. 4403; Gaz. vol. 159; p. 770.
Jameson, Alexander, Indianapolis, Ind. Casting apparatus. No. 950,106; Feb. 22; Sp. p. 4943; Gaz. vol. 151; p. 870.
Jameson, George P., assignor to The Thomas P. Taylor Co., Bridgeport, Conn. Embroidery-ring. No. 956,767; May 3; Sp. p. 574; Gaz. vol. 154; p. 91.
Jameson, John R., Oak Park, Ill. Hat-pin attachment. No. 958,404; May 17; Sp. p. 4376; Gaz. vol. 154; p. 715.
Jameson, William, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Safety device for calender-rolls. No. 962,572; June 28; Sp. p. 4945; Gaz. vol. 155; p. 866.
Jameson, William A., Niagara Falls, N. Y. Knife-sharpening device. No. 963,292; July 5; Sp. p. 668; Gaz. vol. 156; p. 94.
Jameson, William C., Coleman, Tex. Transmission mechanism. No. 947,386; Jan. 25; Sp. p. 5300; Gaz. vol. 150; p. 890.
Jamieson, Marcus W. (See Schlosser, Robert J., assignor.)
Jamison, Robert G., assignor of one-half to C. M. Patterson, Pittsburg, Pa. Automatic gas-burner. No. 957,342; May 10; Sp. p. 1832; Gaz. vol. 154; p. 319.
Jamison, Robert G., assignor to The Liberty Manufacturing Company, Pittsburg, Pa. Rotary tube-cleaner. No. 973,046; Oct. 18; Sp. p. 3391; Gaz. vol. 159; p. 587.
Janclaes, Reiner, and W. Kaulhausen, Aix-la-Chapelle, Germany. Detachable wheel-rim. No. 974,668; Nov. 1; Sp. p. 1336; Gaz. vol. 160; p. 208.
Janda, Thomas J., Pittsburg, Pa. Attachment for optical instruments. No. 973,438; Oct. 18; Sp. p. 4240; Gaz. vol. 159; p. 722.
Jandus Electric Company, The. (See Stowe, Bernard A., assignor.)
Jandus, William, Cleveland, Ohio. Thermometer. No. 969,106; Aug. 30; Sp. p. 6946; Gaz. vol. 157; p. 1209.
Janelle, Oscar, Manchester, N. H., assignor to Draper Company, Hopedale, Mass. Automatic filling-replenishing loom. No. 951,949; Mar. 15; Sp. p. 3032; Gaz. vol. 152; p. 549.
Janes, Henry, Newton Falls, Ohio. Folding crib and play-pen. No. 955,076; Apr. 12; Sp. p. 2986; Gaz. vol. 153; p. 506.
Janes, Lyell Y., Tularosa, N. Mex. Bridle-bit. No. 973,276; Oct. 18; Sp. p. 3895; Gaz. vol. 159; p. 667.
Janik, Eduard, Lemberg, Austria-Hungary. Cash controlling and registering and change-returning apparatus. No. 952,526; Mar. 22; Sp. p. 4176; Gaz. vol. 152; p. 768.
Janik, Louis, assignor of one-half to C. W. Jonas, Havelock, Nebr. Motor. No. 949,901; Feb. 22; Sp. p. 4470; Gaz. vol. 151; p. 799.
Janin, Albert S., New York, N. Y. Machine for cutting tiles. No. 949,035; Feb. 15; Sp. p. 2656; Gaz. vol. 151; p. 473.
Janisch, Leopold, Berlin, Germany, assignor to General Electric Company. System of motor control. No. 971,199; Sept. 27; Sp. p. 4390; Gaz. vol. 158; p. 770.
Janney, Eli H., Fairfax county, Va. Car-coupling. No. 974,153; Nov. 1; Sp. p. 91; Gaz. vol. 160; p. 19.
Janney, Eli H., Fairfax county, Va. Car-coupling. No. 974,154; Nov. 1; Sp. p. 94; Gaz. vol. 160; p. 19.
Janney, Frank G., Salt Lake City, Utah. Ore-classifier. No. 964,261; July 12; Sp. p. 2679; Gaz. vol. 156; p. 442.
Janney, Reynold, New York, N. Y. Pressure device. No. 951,278; Mar. 8; Sp. p. 1653; Gaz. vol. 152; p. 293.
Janney, Robert E. L., assignor to American Steel Foundries, Chicago, Ill. Car-coupling. No. 951,188; Mar. 8; Sp. p. 1463; Gaz. vol. 152; p. 265.
Janney, Stewart S. (See Spencer, Jarvis, assignor.)
Janney, William H., Bingham Canyon, Utah. Pulp-extractor. No. 955,077; Apr. 12; Sp. p. 2990; Gaz. vol. 153; p. 507.
Jansen, Augusta Y., Chicago, Ill. Alarm-clock. No. 964,426; July 12; Sp. p. 3006; Gaz. vol. 156; p. 496.
Jansen, Johannes, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Green azo dye. No. 961,354; June 14; Sp. p. 2301; Gaz. vol. 155; p. 406.
Jansen, Johannes, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Red azo dye. No. 961,355; June 14; Sp. p. 2302; Gaz. vol. 155; p. 406.
Jansen, Waldemar, New York, N. Y. Bar appliance. No. 976,657; Nov. 22; Sp. p. 5685; Gaz. vol. 160; p. 961.
Jansen, Willis. (See Bailey and Jansen.)
Janson, Carl G., Berkeley, Cal. Sidewalk-elevator door. No. 971,754; Oct. 4; Sp. p. 516; Gaz. vol. 159; p. 89.
Janssen, Friedrich O., Hemelingen, near Bremen, Germany. Cover for nursing-bottles. No. 978,892; Dec. 20; Sp. p. 3157; Gaz. vol. 161; p. 561.
Janssen, Henry, and R. C. Rahm, assignors to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 979,502; Dec. 27; Sp. p. 4492; Gaz. vol. 161; p. 793.
Jánsson, Carl A., Jersey City, N. J. Tobacco-pipe. No. 966,021; Aug. 2; Sp. p. 384; Gaz. vol. 157; p. 61.
Jantz, Gustave H. (See Leist, William, assignor.)
Janwich, William L., Cliffwood, N. J. Poker. No. 957,679; May 10; Sp. p. 2508; Gaz. vol. 154; p. 433.
Japhet, Charles A., Moran, Kans. Crude-oil burner. No. 957,063; May 3; Sp. p. 1215; Gaz. vol. 154; p. 192.
Jaqua, Charles A., Portland, Ind. Frictional air-compressor. No. 975,957; Nov. 15; Sp. p. 4122; Gaz. vol. 160; p. 696.
Jaques, Fernando O., Jr., Cranston, R. I. Means for forming tooth-crowns. No. 971,274; Sept. 27; Sp. p. 4540; Gaz. vol. 158; p. 794.
Jaques, Fernando O., Jr., Cranston, R. I. Dental-crown shaper. No. 977,633; Dec. 6; Sp. p. 490; Gaz. vol. 161; p. 74.
Jaques, Rufus S., Spokane, Wash. Threshing-machine. No. 976,263; Nov. 22; Sp. p. 4834; Gaz. vol. 160; p. 826.
Jaquet, Jules F., Hyattsville, Md. Metallic trellis. No. 947,912; Feb. 1; Sp. p. 278; Gaz. vol. 151; p. 46.
Jaquet, Jules F., Hyattsville, Md. Vehicle-dashboard. No. 957,858; May 10; Sp. p. 2869; Gaz. vol. 154; p. 491.
Jaquet, Jules F., Ballston, Va. Thill-coupling. No. 974,387; Nov. 1; Sp. p. 693; Gaz. vol. 160; p. 105.
Jardine, Robert, Cleveland, Ohio. Fender for automobiles. No. 958,132; May 17; Sp. p. 3676; Gaz. vol. 154; p. 620.
Jargick, Peter P., La Grange, assignor of one-half to G. W. Rettig, Willow Springs, Ill. Nut-lock. No. 969,537; Sept. 6; Sp. p. 826; Gaz. vol. 158; p. 130.

Alphabetical list of patentees—Continued.

Jarmin, James B., Spokane, Wash. Round culvert. No. 951,123; Mar. 8; Sp. p. 1337; Gaz. vol. 152; p. 244.
Jarmin, James B., Spokane, Wash. Flat-bottom culvert. No. 951,124; Mar. 8; Sp. p. 1338; Gaz. vol. 152; p. 244.
Jarmin, James B., Spokane, Wash. Actuating mechanism. No. 978,893; Dec. 20; Sp. p. 3157; Gaz. vol. 161; p. 561.
Jarmin, James B., Spokane, Wash., assignor of one-half to J. S. Beall, Portland, Oreg. Metal culvert-pipe. No. 951,279; Mar. 8; Sp. p. 1659; Gaz. vol. 152; p. 293.
Jarmolowsky, Abraham, New York, N. Y. Gas-fixture. No. 946,226; Jan. 11; Sp. p. 2670; Gaz. vol. 150; p. 444.
Jarnagin, Thomas J., Princeton, Tex. Churn. No. 975,044; Nov. 8; Sp. p. 2198; Gaz. vol. 160; p. 357.
Jarvis, Harold, Buffalo, N. Y. Cleaning and sterilizing filter-stones. No. 963,767; July 12; Sp. p. 1633; Gaz. vol. 156; p. 275.
Jarvis, Samuel D., Latham, Ill. Automatic train-stop. No. 954,517; Apr. 12; Sp. p. 1756; Gaz. vol. 153; p. 315.
Jarvis, Virgil O. (See Pence, Wolf, and Jarvis.)
Jarvis, William D. F., assignor of one-half to J. A. Viquesney, Belington, W. Va. Railway-spike. No. 945,543; Jan. 4; Sp. p. 1158; Gaz. vol. 150; p. 179.
Jasmer, Charles W., Marshfield, Wis. Tire-protector. No. 967,779; Aug. 16; Sp. p. 4123; Gaz. vol. 157; p. 706.
Jasmer, Friedrich, and J. Gunlach, Hoboken, N. J. Fire-kindler. No. 965,582; July 26; Sp. p. 5601; Gaz. vol. 156; p. 953.
Jasper & Goebel. (See Goebel, John, assignor.)
Jaspersen, Max, Hamburg, Germany. Fluid-pressure regulator. No. 971,275; Sept. 27; Sp. p. 4542; Gaz. vol. 158; p. 794.
Jaubert, George F., Paris, France. Apparatus for discharging excess exhaust gases from motors working on a closed cycle. No. 953,146; Mar. 29; Sp. p. 5529; Gaz. vol. 152; p. 1008.
Jaubert, George F., Paris, France. Making briquets for producing oxygen. No. 965,630; July 26; Sp. p. 5710; Gaz. vol. 156; p. 970.
Jaubert, George F., Paris, France. Briquet for making oxygen. No. 965,631; July 26; Sp. p. 5712; Gaz. vol. 156; p. 971.
Jaubert, George F., Paris, France. Supplying fuel to heat-engines. No. 965,632; July 26; Sp. p. 5713; Gaz. vol. 156; p. 971.
Jauer, Christman D., Karnes City, Tex. Grubbing-plow. No. 953,909; Apr. 5; Sp. p. 445; Gaz. vol. 153; p. 81.
Jauer, Christman D., Karnes City, Tex. Plowshare for grubbing-plows, &c. No. 956,768; May 3; Sp. p. 575; Gaz. vol. 154; p. 92.
Jauregin, Louis, Meyersburg, Mont. Trap. No. 966,213; Aug. 2; Sp. p. 803; Gaz. vol. 157; p. 126.
Javins, Harry A., Burlingame, Cal. Combined can container and perforator. No. 979,072; Dec. 20; Sp. p. 3563; Gaz. vol. 161; p. 623.
Javins, Harry A., Burlingame, Cal., assignor to Javins Manufacturing Company. Wall-bed. No. 974,065; Oct. 25; Sp. p. 5556; Gaz. vol. 159; p. 963.
Javins Manufacturing Company. (See Javins, Harry A., assignor.)
Jay, Alfred L., St. Joseph, Mo. Cue-chalker. No. 974,066; Oct. 25; Sp. p. 5558; Gaz. vol. 159; p. 963.
Jay, Clyde H., Salt Lake City, Utah. Apparatus for the treatment of metal-bearing slimes. No. 963,710; July 5; Sp. p. 1499; Gaz. vol. 156; p. 233.
Jay, Edgar, London, England. Letter book and album. No. 950,721; Mar. 1; Sp. p. 566; Gaz. vol. 152; p. 89.
Jay, Edgar, London, England. Loose-sheet book or binder. No. 963,575; July 5; Sp. p. 1234; Gaz. vol. 156; p. 189.
Jay, Samuel. (See Noble and Jay.)
Jayne, Alice M., Bradford, Pa. Mail-binder. No. 978,591; Dec. 13; Sp. p. 2560; Gaz. vol. 161; p. 436.
Jaynes, Claude F., Seattle, Wash. Planter. No. 969,701; Sept. 6; Sp. p. 1158; Gaz. vol. 158; p. 187.
Jeans, Walter C., and F. Beevers, Leeds, England. Scientific toy or puzzle. No. 976,371; Nov. 22; Sp. p. 5068; Gaz. vol. 160; p. 861.
Jeavons, William R., Cleveland, Ohio. Oil-burner. No. 951,612; Mar. 8; Sp. p. 2329; Gaz. vol. 152; p. 404.
Jeavons, William R., Cleveland, Ohio. Oil-stove. No. 964,262; July 12; Sp. p. 2681; Gaz. vol. 156; p. 442.
Jeavons, William R., Cleveland, Ohio. Wick-tube. No. 964,263; July 12; Sp. p. 2684; Gaz. vol. 156; p. 443.
Jeavons, William R., Cleveland, Ohio. Pipe-end closure. No. 968,853; Aug. 30; Sp. p. 6435; Gaz. vol. 157; p. 1121.
Jedel, Aaron, New York, N. Y. Pyrotechnical button. No. 948,225; Feb. 1; Sp. p. 913; Gaz. vol. 151; p. 149.
Jedel, Aaron, New York, N. Y. Trick electric pocket-lamp. No. 955,078; Apr. 12; Sp. p. 2991; Gaz. vol. 153; p. 507.
Jedel, Aaron, New York, N. Y. Trick-box. No. 962,843; June 28; Sp. p. 5488; Gaz. vol. 155; p. 960.
Jeffcott, Lewis B., New York, N. Y. Folding bed. No. 972,537; Oct. 11; Sp. p. 2226; Gaz. vol. 159; p. 385.
Jefferis, Richard W., Camden, N. J. Metal locker. No. 948,628; Feb. 8; Sp. p. 1801; Gaz. vol. 151; p. 309.
Jeffers, George W. (See Mitchell, John M., assignor.)
Jeffers, Harry I., assignor of one-half to W. F. May, Fort Smith, Ark. Building construction. No. 975,692; Nov. 15; Sp. p. 3595; Gaz. vol. 160; p. 606.
Jeffers, Harry I., assignor of one-half to W. F. May, Fort Smith, Ark. Building construction. No. 980,102; Dec. 27; Sp. p. 5806; Gaz. vol. 161; p. 996.
Jefferson, Eugene D., Lowell, Mass. Valve. No. 959,349; May 24; Sp. p. 6336; Gaz. vol. 154; p. 1059.
Jefferson, John D., Parkhill, Ontario, Canada. Flax-threshing machine. No. 951,125; Mar. 8; Sp. p. 1339; Gaz. vol. 152; p. 244.
Jefferson, John H., Osmond, Nebr. Display-stand. No. 947,640; Jan. 25; Sp. p. 5882; Gaz. vol. 150; p. 976.
Jefferson, William T. (See Schmidt and Jefferson.)
Jeffery, Benjamin A. (See Jeffery, Joseph A. and B. A.)
Jeffery, Charles T., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Charles T., *et al.*, executors. (See Purdy, Frederick, assignor.)
Jeffery, Charles T., *et al.*, executors. (See Symmonds, Robert, Jr., assignor.)
Jeffery-De Witt Company. (See Jeffery, Joseph A. and B. A., assignors.)
Jeffery-Dewitt Company. (See Palmer, Harry B., assignor.)
Jeffery, Harold W., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Harold W., *et al.*, executors. (See Purdy, Frederick, assignor.)
Jeffery, Harold W., *et al.*, executors. (See Symmonds, Robert, Jr., assignor.)
Jeffery, Joseph A. and B. A., assignors to Jeffery-De Witt Company, Newark, N. J. Electric sparking device. No. 963,711; July 5; Sp. p. 1503; Gaz. vol. 156; p. 234.
Jeffery, Kate E., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Kate E., *et al.*, executors. (See Purdy, Frederick, assignor.)
Jeffery, Kate E., *et al.*, executors. (See Symmonds, Robert, Jr., assignor.)
Jeffery Manufacturing Company, The. (See Sessions, Frank L., assignor.)
Jeffery, Richard E., Piedmont, Cal. Firearm. No. 962,223; June 21; Sp. p. 4153; Gaz. vol. 155; p. 721.
Jeffery, Sherman, Meriden, Iowa. Watering-trough. No. 968,769; Aug. 30; Sp. p. 6274; Gaz. vol. 157; p. 1095.
Jeffery, Thomas B. (See Purdy, Frederick, assignor.)
Jeffery, Thomas B. (See Symmonds, Robert, Jr., assignor.)
Jeffery, Thomas B., deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Safety attachment for automobiles. No. 964,427; July 12; Sp. p. 3008; Gaz. vol. 156; p. 496.
Jeffery, Thomas B., deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Tilting body for automobiles. No. 976,572; Nov. 22; Sp. p. 5512; Gaz. vol. 160; p. 932.
Jefferys, Albert, Philadelphia, Pa. Expansion-mandrel. No. 966,449; Aug. 9; Sp. p. 1275; Gaz. vol. 157; p. 229.
Jeffrey, Fraser, Milwaukee, Wis., assignor to Allis-Chalmers Company. Commutator construction. No. 970,233; Sept. 13; Sp. p. 2344; Gaz. vol. 158; p. 395.
Jeffrey, Harry, Louisville, Ky. Elliptic spring. No. 965,191; July 26; Sp. p. 4725; Gaz. vol. 156; p. 818.
Jeffrey, Joseph H. (See Davis and Jeffrey.)
Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)
Jeffrey Manufacturing Company, The. (See Fetherolf, Charles E., assignor.)
Jeffrey Manufacturing Company, The. (See Fisher, Dudley T., assignor.)
Jeffrey Manufacturing Company, The. (See Holstein and Horst, assignors.)
Jeffrey Manufacturing Company, The. (See Lynch, George E., assignor.)
Jeffrey Manufacturing Company, The. (See Norris, George B., assignor.)
Jeffrey Manufacturing Company, The. (See Sessions, Frank L., assignor.)
Jeffrey Manufacturing Company, The. (See Smith, William L., assignor.)
Jeffrey Manufacturing Company, The. (See Teller, Spencer J., assignor.)
Jeffrey Manufacturing Company, The. (See Willson, Freeman R., Jr., assignor.)
Jeffrey Manufacturing Company, The. (See Willson, William W., assignor.)
Jeffries, Elijah G., Boise, Idaho. Cable-hanger. No. 974,669; Nov. 1; Sp. p. 1337; Gaz. vol. 160; p. 208.
Jeffries, John T., and R. L. Lynch, Campbellsburg, Ky. Apparatus for delivering and receiving mail. No. 978,894; Dec. 20; Sp. p. 3159; Gaz. vol. 161; p. 561.
Jegge, Emil G., assignor to The Duranoid Mfg. Co., Newark, N. J. Rein-button. No. 947,992; Feb. 1; Sp. p. 441; Gaz. vol. 151; p. 71.
Jenckes, Lawrence B., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Expansible pulley. No. 964,161; July 12; Sp. p. 2484; Gaz. vol. 156; p. 408.
Jendrusik, Aureljusz, Strzemieszyce, Russia. Slide-valve gear for steam-locomotives. No. 961,613; June 14; Sp. p. 2837; Gaz. vol. 155; p. 491.
Jenkins, Alexander F. (See Johnson, Alexander F. J.)

Alphabetical list of patentees—Continued.

Jenkins, Alexander F., assignor to The Alexander Milburn Company, Baltimore, Md. Acetylene generator and torch. No. 956,358; Apr. 26; Sp. p. 5791; Gaz. vol. 153; p. 1007.

Jenkins, Alexander F., assignor to Alexander Milburn Company, Baltimore, Md. Portable acetylene generator and torch. No. 960,643; June 7; Sp. p. 828; Gaz. vol. 155; p. 136.

Jenkins, Alexander F., assignor to The Alexander Milburn Company, Baltimore, Md. Contractor's torch. No. 962,640; June 28; Sp. p. 5078; Gaz. vol. 155; p. 888.

Jenkins, Alfred W., Richmond, Ind., assignor, by mesne assignments, to Single Service Package Corporation of America. Tube-winding machinery. No. 964,107; July 12; Sp. p. 2382; Gaz. vol. 156; p. 391.

Jenkins, Charles, Aspinwall, Pa. Angle-cock for train-pipes. No. 952,743; Mar. 22; Sp. p. 4667; Gaz. vol. 152; p. 844.

Jenkins, Charles F., Washington, D. C. Key and lock. No. 947,913; Feb. 1; Sp. p. 279; Gaz. vol. 151; p. 47.

Jenkins, Charles F., Washington, D. C. Explosion-motor. No. 972,379; Oct. 11; Sp. p. 1871; Gaz. vol. 159; p. 328.

Jenkins, Charles F., Washington, D. C. Explosion-engine. No. 972,380; Oct. 11; Sp. p. 1873; Gaz. vol. 159; p. 328.

Jenkins, Charles F., Washington, D. C. Paper-box machinery No. 972,767; Oct. 11; Sp. p. 2724; Gaz. vol. 159; p. 463.

Jenkins, Charles F., Washington, D. C. Mailing-folder. No. 974,276; Nov. 1; Sp. p. 447; Gaz. vol. 160; p. 66.

Jenkins, Charles F., Washington, D. C. Bottle-capping machine. No. 979,766; Dec. 27; Sp. p. 5081; Gaz. vol. 161; p. 885.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Collapsible knockdown box. No. 947,179; Jan. 18; Sp. p. 4787; Gaz. vol. 150; p. 789.

Jenkins, Charles F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Paper bottle. No. 949,036; Feb. 15; Sp. p. 2659; Gaz. vol. 151; p. 474.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Package for chemicals. No. 949,708; Feb. 15; Sp. p. 4005; Gaz. vol. 151; p. 696.

Jenkins, Charles F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Apparatus for making and inserting bottle-caps. No. 950,022; Feb. 22; Sp. p. 4793; Gaz. vol. 151; p. 843.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Spirally-wound collapsible receptacle. No. 952,258; Mar. 15; Sp. p. 3621; Gaz. vol. 152; p. 651.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Paper receptacle. No. 954,104; Apr. 5; Sp. p. 857; Gaz. vol. 153; p. 148.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Paper receptacle. No. 954,105; Apr. 5; Sp. p. 857; Gaz. vol. 153; p. 148.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for inserting closures in receptacles. No. 954,106; Apr. 5; Sp. p. 858; Gaz. vol. 153; p. 148.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Apparatus for forming and inserting receptacle-closures. No. 954,107; Apr. 5; Sp. p. 860; Gaz. vol. 153; p. 149.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Apparatus for securing closures in paper tubes. No. 954,108; Apr. 5; Sp. p. 861; Gaz. vol. 153; p. 149.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Bottle-closing device. No. 954,109; Apr. 5; Sp. p. 862; Gaz. vol. 153; p. 149.

Jenkins, Charles F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Machine for forming and cutting off tubes. No. 957,966; May 17; Sp. p. 3175; Gaz. vol. 154; p. 560.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Device for holding bottle-bodies for the insertion of closures. No. 958,252; May 17; Sp. p. 3923; Gaz. vol. 154; p. 660.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Apparatus for making paper bottles. No. 960,226; May 31; Sp. p. 8213; Gaz. vol. 154; p. 1382.

Jenkins, Charles F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Machine for making tubes. No. 964,162; July 12; Sp. p. 2484; Gaz. vol. 156; p. 408.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Closure for receptacles. No. 970,926; Sept. 20; Sp. p. 3816; Gaz. vol. 158; p. 651.

Jenkins, Edson W., Alfred Station, assignor of one-half to C. M. Hayes, Hornell, N. Y. Spring-wheel. No. 974,155; Nov. 1; Sp. p. 97; Gaz. vol. 160; p. 19.

Jenkins, Edward C. (See Wilkinson, Gregory, and Jenkins.)

Jenkins, Edward T., deceased, (A. R. Clark, executrix,) Spokane, Wash. Smoke-stack. No. 963,208; July 5; Sp. p. 471; Gaz. vol. 156; p. 65.

Jenkins, Harvey L., Bridgeport, Conn. Fire-hose carrier. No. 954,807; Apr. 12; Sp. p. 2434; Gaz. vol. 153; p. 416.

Jenkins, James L., Garden City, S. D. Rail-chair. No. 960,644; June 7; Sp. p. 830; Gaz. vol. 155; p. 136.

Jenkins, James L., Johnstown, W. Va. Attachment for cultivators. No. 974,670; Nov. 1; Sp. p. 1339; Gaz. vol. 160; p. 208.

Jenkins, Merrill L. (See Place and Jenkins.)

Jenkins, Merrill L., Harvey, assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Railway-track car. No. 963,576; July 5; Sp. p. 1235; Gaz. vol. 156; p. 189.

Jenkins, Merrill L., Harvey, assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Railway track-car. No. 973,664; Oct. 25; Sp. p. 4741; Gaz. vol. 159; p. 823.

Jenkins, Merrill L., Harvey, assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Lifting-jack. No. 978,453; Dec. 13; Sp. p. 2234; Gaz. vol. 161; p. 387.

Jenkins, Robert. (See Wilkinson, Gregory, and Jenkins.)

Jenkins, Sylvester, Lansdale, Pa. Kaleidoscope. No. 951,126; Mar. 8; Sp. p. 1341; Gaz. vol. 152; p. 245.

Jenkins, Thomas W. (See Kenan, John J. W., assignor.)

Jenkins, Walter S., Washington, D. C., assignor to The Whitehead & Hoag Company, Newark, N. J. Puzzle. No. 969,481; Sept. 6; Sp. p. 695; Gaz. vol. 158; p. 110.

Jenkins, Warren T., *et al.* (See Darby, Averno A. and J. F., assignors.)

Jenkinson, Herbert J. (See Lockhart and Jenkinson.)

Jenks, John, San Diego, Cal. Door-lock. No. 945,276; Jan. 4; Sp. p. 561; Gaz. vol. 150; p. 92.

Jenks, Thomas W., Bellevue, Pa. Tension member for concrete construction. No. 952,259; Mar. 15; Sp. p. 3624; Gaz. vol. 152; p. 651.

Jenks, Virgil A., Indianapolis, Ind. Truck. No. 966,214; Aug. 2; Sp. p. 804; Gaz. vol. 157; p. 127.

Jenne, Henry S., assignor to J. G. Elbs, Rochester, N. Y. Egg-carrier. No. 945,096; Jan. 4; Sp. p. 191; Gaz. vol. 150; p. 32.

Jenner, George C., assignor to American Optical Company, Southbridge, Mass. Spring-hinge. No. 951,189; Mar. 8; Sp. p. 1464; Gaz. vol. 152; p. 265.

Jenner, Roy C., assignor to A. G. Lodewyck, Detroit, Mich. Fluid-pressure motor. No. 964,866; July 19; Sp. p. 4078; Gaz. vol. 156; p. 680.

Jenness, Charles L., Chicago, Ill. Adjustable bearing-cup. No. 978,756; Dec. 13; Sp. p. 2900; Gaz. vol. 161; p. 490.

Jenney, Robert T., De Pere, Wis. Post-hole auger. No. 977,877; Dec. 6; Sp. p. 995; Gaz. vol. 161; p. 156.

Jennings, Archer B., Wallingford, Conn. Expansible bit. No. 950,782; Mar. 1; Sp. p. 693; Gaz. vol. 152; p. 111.

Jennings, Archer B., Wallingford, Conn. Square. No. 962,149; June 21; Sp. p. 4015; Gaz. vol. 155; p. 697.

Jennings, Archer B., assignor to The Jennings-Hall-Sperry Co., Wallingford, Conn. Slicing-machine. No. 960,334; June 7; Sp. p. 197; Gaz. vol. 155; p. 34.

Jennings, Charles D., St. Joseph, Mich. Lining or back plaster for buildings. No. 960,554; June 7; Sp. p. 649; Gaz. vol. 155; p. 106.

Jennings, Chester S., Brookline, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Terminal for pneumatic-despatch tubes. No. 968,566; Aug. 30; Sp. p. 5819; Gaz. vol. 157; p. 1024.

Jennings, Chester S., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Terminal for pneumatic-despatch-tube apparatus. No. 968,567; Aug. 30; Sp. p. 5821; Gaz. vol. 157; p. 1025.

Jennings, Chester S., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 972,381; Oct. 11; Sp. p. 1874; Gaz. vol. 159; p. 329.

Jennings, George E., Mount Vernon, N. Y. Sign. No. 950,857; May 3; Sp. p. 782; Gaz. vol. 154; p. 124.

Jennings-Hall-Sperry Co., The. (See Jennings, Archer B., assignor.)

Jennings, Harry J. (See Mintier and Jennings.)

Jennings, Isaac B., Waverly, Iowa. Ironing-board. No. 948,479; Feb. 8; Sp. p. 1469; Gaz. vol. 151; p. 261.

Jennings, John F., Cleveland, Ohio. Valve. No. 969,874; Sept. 13; Sp. p. 1584; Gaz. vol. 158; p. 272.

Jennings, Milo C., assignor of one-fifth to D. McMillen, one-fifth to K. E. Walsh, and one-fifth to H. J. Cunningham, Chicago, Ill. Rope-fastener. No. 960,333; June 7; Sp. p. 196; Gaz. vol. 155; p. 34.

Jennison, Harry G., Toledo, Ohio. Pavement. No. 962,150; June 21; Sp. p. 4016; Gaz. vol. 155; p. 697.

Jenny, Rudolf G., Leigh, Nebr. Corn rake and elevating machine. No. 964,471; July 12; Sp. p. 3099; Gaz. vol. 156; p. 509.

Jenoi, Eugene, Roaringfork, Va. Combined bed and table. No. 968,952; Aug. 30; Sp. p. 6637; Gaz. vol. 157; p. 1156.

Jenrich, Arthur C., Columbia, Nev. Rail-joint. No. 948,097; Feb. 1; Sp. p. 665; Gaz. vol. 151; p. 108.
Jensen, Aage, Eureka, Cal. Apparatus for heating or cooling liquids. No. 949,769; Feb. 22; Sp. p. 4157; Gaz. vol. 151; p. 752.
Jensen, Aage, Eureka, Cal. Milk-testing bottle. No. 956,708; May 3; Sp. p. 450; Gaz. vol. 154; p. 72.
Jensen, Aage, Eureka, Cal. Sterilizer and drier. No. 958,133; May 17; Sp. p. 3677; Gaz. vol. 154; p. 620.
Jensen, Andrew P., *et al.* (See Bailey, Walter F., assignor.)
Jensen, Benjamin D., Chesterfield, Idaho. Mast-cap. No. 957,343; May 10; Sp. p. 1834; Gaz. vol. 154; p. 319.
Jensen, Carl M., Denver, Colo. Rein-holder. No. 959,143; May 24; Sp. p. 5918; Gaz. vol. 154; p. 991.
Jensen, Chester L. (See Lahey, Lonnie A., assignor.)
Jensen, Chester L., and L. A. Lahey, Spokane, Wash. Crutch. No. 974,494; Nov. 1; Sp. p. 963; Gaz. vol. 160; p. 143.
Jensen, Christian. (See Prescott, Ellis, and Jensen.)
Jensen, Edward. (See Jensen and Austin.)
Jensen, Engebret, and E., and F. W. Austin, Wheatfield, Ind. Fertilizer-distributer attachment for cultivators. No. 950,230; Feb. 22; Sp. p. 5213; Gaz. vol. 151; p. 914.
Jensen, Hans H., Milwaukee, Wis. Machine for cutting metal bars. No. 962,085; June 21; Sp. p. 3856; Gaz. vol. 155; p. 674.
Jensen, Ingeborg E. A., River Forest, Ill. Suit-case. No. 968,479; Aug. 23; Sp. p. 5607; Gaz. vol. 157; p. 968.
Jensen, Newman, Oakland, Cal. Phonograph-record cabinet. No. 964,867; July 19; Sp. p. 4082; Gaz. vol. 156; p. 681.
Jensen, Niels. (See Hansen, Lehmann, and Jensen.)
Jensen, Olaus, Seattle, Wash. Duplicate-shaping machine. No. 962,573; June 28; Sp. p. 4947; Gaz. vol. 155; p. 866.
Jensen, Ole H. (See Christensen and Jensen.)
Jensen, Peter, Bremerton, Wash. Clamp. No. 977,802; Dec. 6; Sp. p. 835; Gaz. vol. 161; p. 131.
Jensen, Soren, Providence, R. I. Pencil-sharpener. No. 965,907; Aug. 2; Sp. p. 128; Gaz. vol. 157; p. 22.
Jensen, Soren C., Kingman, Me. Device for carrying barrels. No. 958,923; May 24; Sp. p. 5478; Gaz. vol. 154; p. 918.
Jensen, William S., Minneapolis, Minn. Wall-bed. No. 960,943; June 7; Sp. p. 1403; Gaz. vol. 155; p. 326.
Jepperson, Jeppe, Salt Lake City, Utah. Boot and shoe. No. 968,359; Aug. 23; Sp. p. 5374; Gaz. vol. 157; p. 927.
Jeppson, George N., assignor to Norton Company, Worcester, Mass. Bonded article and making same. No. 954,809; Apr. 12; Sp. p. 2438; Gaz. vol. 153; p. 416.
Jeppson, George N., Worcester, Mass., and L. E. Saunders, Niagara Falls, N. Y., assignors to Norton Company, Worcester, Mass. Electric-furnace product and making same. No. 954,808; Apr. 12; Sp. p. 2435; Gaz. vol. 153; p. 416.
Jepson, Worth E., Los Angeles, Cal. Illuminated sign and signal-lamp. No. 969,374; Sept. 6; Sp. p. 487; Gaz. vol. 158; p. 77.
Jerauld, Henry E., Pensacola, Fla. Fastening means for walls. No. 961,698; June 14; Sp. p. 2996; Gaz. vol. 155; p. 519.
Jerolaman, Theodore, Belleville, N. J. Ear for pail and bucket bails. No. 971,678; Oct. 4; Sp. p. 354; Gaz. vol. 159; p. 62.
Jervey, Alan L., Richmond, Va. Hasp-lock. No. 955,881; Apr. 26; Sp. p. 4764; Gaz. vol. 153; p. 843.
Jeschke, Edward, assignor to The Jeschke Manufacturing Company, Bellevue, Ohio. Harvester. No. 954,438; Apr. 12; Sp. p. 1562; Gaz. vol. 153; p. 287.
Jeschke Manufacturing Company, The. (See Jeschke, Edward, assignor.)
Jesse, Joseph R., Birmingham, Ala. Variable self-inductance coil. No. 966,555; Aug. 9; Sp. p. 1562; Gaz. vol. 157; p. 266.
Jessee, Frank, Baltimore, Md. Hardening feet and legs of fowl. No. 946,046; Jan. 11; Sp. p. 2005; Gaz. vol. 150; p. 382.
Jessen, Sophus, Neumünster, Germany. Implement for cleaning out meadows and pasture-fields. No. 968,058; Aug. 23; Sp. p. 4713; Gaz. vol. 157; p. 823.
Jessop, Richard. (See Burdick and Jessop.)
Jessup, Albert, Beardsley, Minn. Hen's nest. No. 955,882; Apr. 26; Sp. p. 4766; Gaz. vol. 153; p. 843.
Jessup, George W., Moorestown, N. J. Potato-digger. No. 952,200; Mar. 15; Sp. p. 3499; Gaz. vol. 152; p. 630.
Jessup, George W., Sr., Moorestown, N. J. Potato-digger. No. 977,803; Dec. 6; Sp. p. 836; Gaz. vol. 161; p. 131.
Jessup, George W., Jr., Newton, Mass. Wrench. No. 969,538; Sept. 6; Sp. p. 827; Gaz. vol. 158; p. 131.
Jessup, William C., Norwalk, and J. Muth, Westport, assignors to The E. H. Hotchkiss Co., Norwalk, Conn. Stapling-machine. No. 971,130; Sept. 27; Sp. p. 4229; Gaz. vol. 158; p. 746.
Jester, Eugene L., East Liverpool, Ohio. Skeleton structure for the production of earthenware. No. 954,029; Apr. 5; Sp. p. 694; Gaz. vol. 153; p. 122.
Jeszenszky, Alexander, Nográdkövesd, Austria-Hungary. Device for driving motor agricultural machines. No. 947,444; Jan. 25; Sp. p. 5432; Gaz. vol. 150; p. 910.
Jeter, Theodore, Champaign, Ill. Ellipsograph. No. 973,047; Oct. 18; Sp. p. 3392; Gaz. vol. 159; p. 587.
Jette, Eveline. (See Jetté, Bellemare, Jette, and Carignan.)
Jetté, Marcus, A. Bellemare, E. Jette, and J. E. Carignan, Montreal, Quebec, Canada; said Bellemare and said Carignan assignors to said E. Jette. Bell-ringer. No. 949,077; Feb. 15; Sp. p. 2730; Gaz. vol. 151; p. 486.
Jetter, Julius, assignor to Victor Talking Machine Company, Camden, N. J. Talking-machine. No. 960,645; June 7; Sp. p. 831; Gaz. vol. 155; p. 136.
Jewell, Charles E. (See Westcott, Charles H., assignor.)
Jewell, Charles E., Auburn, N. Y. Temperature-regulator motor. No. 951,732; Mar. 8; Sp. p. 2560; Gaz. vol. 152; p. 444.
Jewell, Dell W., Kalamazoo, Mich. Prospector's needle. No. 961,298; June 14; Sp. p. 2162; Gaz. vol. 155; p.386.
Jewell, Omar H., assignor to Polar Ice Machine Company, Chicago, Ill. Apparatus for making artificial ice. No. 965,583; July 26; Sp. p. 5602; Gaz. vol. 156; p. 953.
Jewell, Omar H., assignor to Polar Ice Machine Company, Chicago, Ill. Apparatus for making artificial ice. No. 965,584; July 26; Sp. p. 5604; Gaz. vol. 156; p. 954.
Jewell, Thomas M., Chicago, Ill., assignor to Morgan Construction Company, Worcester, Mass. Guide-box for rolling-mills. No. 966,556; Aug. 9; Sp. p. 1566; Gaz. vol. 157; p. 266.
Jewell, Thomas M., Chicago, Ill., assignor to Morgan Construction Company, Worcester, Mass. Cutting mechanism for rolling-mills. No. 966,557; Aug. 9; Sp. p. 1568; Gaz. vol. 157; p. 267.
Jewell, Walter E., Buffalo, N. Y. Charging-truck for furnaces. No. 947,180; Jan. 18; Sp. p. 4788; Gaz. vol. 150; p. 789.
Jewett, Edmund G., Bellingham, Wash. Producing gas. No. 972,864; Oct. 18; Sp. p. 2949; Gaz. vol. 159; p. 523.
Jewett, Martha P., Evansville, Ind. Composition of matter to be used for the purpose of fluxing metals. No. 977,406; Nov. 29; Sp. p. 7354; Gaz. vol. 160; p. 1244.
Jewett, Parley J., Butler, Mo. Road-grading machine. (Reissue.) No. 13,101; Apr. 12; Sp. p. 3072; Gaz. vol. 153; p. 521.
Jewett, Parley J., Butler, Mo. Road-grading machine. No. 962,354; June 21; Sp. p. 4438; Gaz. vol. 155; p. 765.
Jewett, Robert A., Worcester, Mass. Electric gas-lighting device. No. 971,010; Sept. 20; Sp. p. 3965; Gaz. vol. 158; p. 678.
Jewett, Robert A., Boston, and A. L. Greenlaw, Malden, assignors to The Greenlaw Manufacturing Co., Boston, Mass. Train-pipe coupling. No. 961,699; June 14; Sp. p. 2997; Gaz. vol. 155; p. 520.
Jirus, James, Sr. (See Skaba, John, assignor.)
Joachim, Benjamin. (See Lamerson, Fletcher, assignor.)
Joachim, Benjamin, Newark, N. J. Fastening device for buttons. No. 962,151; June 21; Sp. p. 4018; Gaz. vol. 155; p. 698.
Jobb, Charles L., Three Rivers, Quebec, Canada, assignor of three-fourths to W. C. Swift, Hinsdale, Ill. Pipe-cleaning machine. No. 952,201; Mar. 15; Sp. p. 3501; Gaz. vol. 152; p. 630.
Jocher, Edward, Philadelphia, Pa. Advertising-sign. No. 976,179; Nov. 22; Sp. p. 4614; Gaz. vol. 160; p. 794.
Jocoy, John A., Towanda, Pa. Food-hopper. No. 954,968; Apr. 12; Sp. p. 2790; Gaz. vol. 153; p. 472.
Jodrey, Elbert W., Lynn, Mass., assignor to General Electric Company. Coil for electrical purposes. No. 957,213; May 10; Sp. p. 1543; Gaz. vol. 154; p. 273.
Joeckel, Henry F., Clayton, Ill. Bridging-telephone system. No. 955,335; Apr. 19; Sp. p. 3542; Gaz. vol. 153; p. 626.
Joedicke, Urban, St. Louis, Mo. Dust-collector. No. 971,895; Oct. 4; Sp. p. 830; Gaz. vol. 159; p. 142.
Joerissen, Carl A., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 961,238; June 14; Sp. p. 2026; Gaz. vol. 155; p. 365.
Joern, Charles H. R., St. Louis, Mo. Baker's oven. No. 955,514; Apr. 19; Sp. p. 3923; Gaz. vol. 153; p. 688.
Johanns, Leo, Pittsburg, Pa. Ventilator. No. 957,680; May 10; Sp. p. 2509; Gaz. vol. 154; p. 434.
Johansen, Andreas, assignor to Aktieselskabet Stavanger Bliktrykkeri og Maskinvaerksted, Stavanger, Norway. Closing device for preserve-tins. No. 973,354; Oct. 18; Sp. p. 4056; Gaz. vol. 159; p. 694.
Johansen, Harald, Chicago, Ill. Horseshoe. No. 961,499; June 14; Sp. p. 2603; Gaz. vol. 155; p. 454.
Johanson, Joel L. (See Benson and Johanson.)
Johanson, Karl G., Concord Junction, Mass. Folding table. No. 965,467; July 26; Sp. p. 5333; Gaz. vol. 156; p. 912.
Johansson, Anders E., *et al.* (See Fagerström, Johansson, and Zetterberg.)
Johansson, Carl E., Eskilstuna, Sweden. Gage for outside or inside measurements. No. 949,276; Feb. 15; Sp. p. 3134; Gaz. vol. 151; p. 552.
Johansson, Frans J., and E. A. O. Göthe, Stockholm, Sweden. Milking-machine. No. 974,277; Nov. 1; Sp. p. 447; Gaz. vol. 160; p. 66.
Johansson, Johan P., assignor to Enkopings Mekaniska Verkstads Aktiebolag, Enköping, Sweden. Centrifugal liquid-separator. No. 963,577; July 5; Sp. p. 1237; Gaz. vol. 156; p. 190.

Alphabetical list of patentees—Continued.

Johansson, Karl A., Tidaholm, assignor to Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jönköping, Sweden. Machine for manufacturing match-boxes. No. 979,308; Dec. 20; Sp. p. 4104; Gaz. vol. 161; p. 707.

Johantgen, J. Frank, *et al.* (See Johantgen, Oliver D., assignor.)

Johantgen, Oliver D., Philadelphia, Pa., assignor of one-fourth to J. W. Duntley, one-fourth to J. F. Johantgen, and one-fourth to W. O. Duntley, Chicago, Ill. Ribbon-feeding mechanism for calculating-machines. No. 953,090; Mar. 29; Sp. p. 5398; Gaz. vol. 152; p. 990.

John A. Roebling's Sons Co. (See Cooney, Sebern A., assignor.)

John, Alexander, New York, N. Y. Window-fastener. No. 961,778; June 21; Sp. p. 3177; Gaz. vol. 155; p. 570.

John, Andrew T., New York, N. Y. Keyed finger-board for violins and similar stringed musical instruments. No. 957,681; May 10; Sp. p. 2510; Gaz. vol. 154; p. 434.

John C. Moore Corporation. (See Moore, Gaius C., assignor.)

John Dean Manufacturing Company. (See Dean, John, assignor.)

John H. McGowan Co., The. (See Van Winkle and Healey, assignors.)

John L. Parker Company. (See Lonzo, William, assignor.)

John L. Whiting-J. J. Adams Company. (See Vogel, Ernest, assignor.)

John Martin and Company. (See Martin, John, assignor.)

John S. Fray Company, The. (See Fray, John S., assignor.)

John Simmons Company. (See Kenny, John, assignor.)

John Simmons Company. (See Meem, James C., assignor.)

John Simmons Company. (See Rothchild, Joseph, assignor.)

John Thomson Press Company. (See Thomson, John, assignor.)

John Walker Machine Company. (See Marden, Henry G., assignor.)

John Walker Machine Company. (See Walker, John, assignor.)

Johnerson, Carl G., Maddock, N. D. Harrow. No. 955,515; Apr. 19; Sp. p. 3926; Gaz. vol. 153; p. 689.

Johness, Frank P., assignor of one-fourth to J. J. Rees and one-fourth to T. R. Evans, Columbus, Ohio. Molding double-headed chaplets and other articles. No. 966,558; Aug. 9; Sp. p. 1569; Gaz. vol. 157; p. 267.

Johns, Alfred. (See Blessing and Johns.)

Johns, Horace, Manhattan, Pa. Log-grab hook. No. 965,821; July 26; Sp. p. 6103; Gaz. vol. 156; p. 1035.

Johns-Pratt Company, The. (See Cole, Robert C., assignor.)

Johns-Pratt Company, The. (See Kempton, Willard H., assignor.)

Johnsen, Aksel P., Chicago, Ill. Ratchet drilling device. No. 971,755; Oct. 4; Sp. p. 517; Gaz. vol. 159; p. 90.

Johnsen, Olof, New Haven, Conn. Undergarment-support. No. 945,545; Jan. 4; Sp. p. 1161; Gaz. vol. 150; p. 180.

Johnson, Albert E., Brockton, assignor to United Shoe Machinery Company, Boston, Mass. Machine for applying liquid cement or other liquids to stock. No. 949,018; Feb. 15; Sp. p. 2620; Gaz. vol. 151; p. 468.

Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Inseam-trimming machine. No. 956,971; May 3; Sp. p. 1032; Gaz. vol. 154; p. 162.

Johnson, Albert L., assignor to Corrugated Bar Company, St. Louis, Mo. Reinforcing-bar. No. 967,390; Aug. 16; Sp. p. 3340; Gaz. vol. 157; p. 576.

Johnson, Alexander A., Tacoma, Wash. Sliding camera-front. No. 978,027; Dec. 6; Sp. p. 1301; Gaz. vol. 161; p. 208.

Johnson, Alexander F. J., (now Alexander F. Jenkins by judicial change of name,) assignor to Alexander Milburn Company, Baltimore, Md. Acetylene generator and torch. No. 956,359; Apr. 26; Sp. p. 5795; Gaz. vol. 153; p. 1007.

Johnson, Alfred, Quincy, Ill. Garment holder or rack. No. 975,246; Nov. 8; Sp. p. 2648; Gaz. vol. 160; p. 427.

Johnson, Alfred, assignor to J. W. York and Sons, Grand Rapids, Mich. Musical wind instrument. No. 963,768; July 12; Sp. p. 1635; Gaz. vol. 156; p. 276.

Johnson, Alfred, and C. L. Bockus, Detroit, Mich. Producing front yoke-axles. No. 963,372; July 5; Sp. p. 818; Gaz. vol. 156; p. 121.

Johnson, Alfred C. (See Johnson, John M., A. C., and A.)

Johnson, Alfred W., New Brunswick, N. J. Meat-slicer. No. 956,360; Apr. 26; Sp. p. 5799; Gaz. vol. 153; p. 1008.

Johnson, Allen S., Washington, D. C. Ventilating system. No. 948,629; Feb. 8; Sp. p. 1803; Gaz. vol. 151; p. 310.

Johnson, Allen S., Washington, D. C. Ventilating system. No. 951,761; Mar. 8; Sp. p. 2635; Gaz. vol. 152; p. 455.

Johnson, Andrew, Jamestown, N. Y. Sheet-metal door and the like. No. 978,300; Dec. 13; Sp. p. 1919; Gaz. vol. 161; p. 335.

Johnson, Andrew G., Sutton, Nebr. Straw-burning furnace. No. 957,163; May 3; Sp. p. 1416; Gaz. vol. 154; p. 226.

Johnson, Andrew J., assignor of one-half to The E. M. Kramer Company, Paxton, Ill. Edge-trimmer. No. 965,192; July 26; Sp. p. 4727; Gaz. vol. 156; p. 819.

Johnson, Aron, New York, N. Y. Vise for drill-presses. No. 977,878; Dec. 6; Sp. p. 996; Gaz. vol. 161; p. 157.

Johnson, August. (See Johnson, John M., A. C., and A.)

Johnson, August A. (See Berg, Alvin and R., assignors.)

Johnson, August I., Concord, N. H. Music-leaf turner. No. 976,806; Nov. 22; Sp. p. 5981; Gaz. vol. 160; p. 1010.

Johnson, Axel. (See Ponten, Anders, assignor.)

Johnson, Axel, Oakland, Cal. Can-end-flanging and head-seaming apparatus. No. 956,709; May 3; Sp. p. 451; Gaz. vol. 154; p. 72.

Johnson, Axel, Oakland, Cal. Paste-applying apparatus for can ends. No. 957,967; May 17; Sp. p. 3178; Gaz. vol. 154; p. 561.

Johnson, Axel T. (See Wikander, Anders J., assignor.)

Johnson, Axle R. (See McKague and Johnson.)

Johnson, B. F. (See Risbridger, William C. and M. W., assignors.)

Johnson, Burchard C. (See Guion and Johnson.)

Johnson, Callender L. (See Guthrie and Johnson.)

Johnson, Carel, Berkeley, Cal. Dust-removing apparatus. No. 946,047; Jan. 11; Sp. p. 2305; Gaz. vol. 150; p. 382.

Johnson, Carl, Chicago, Ill. Torch. No. 969,875; Sept. 13; Sp. p. 1586; Gaz. vol. 158; p. 273.

Johnson, Carl A., Bucklin, Mo. Bale-tying mechanism. No. 969,284; Sept. 6; Sp. p. 279; Gaz. vol. 158; p. 46.

Johnson, Carl A., Tolar, assignor of one-fifth to J. C. Leavelle, Taiban, N. Mex. Tying mechanism for baling-presses. No. 966,099; Aug. 2; Sp. p. 541; Gaz. vol. 157; p. 88.

Johnson, Carl A., Bucklin, Mo., assignor of one-fourth to J. T. Coleman, Tolar, N. Mex. Gas-burner. No. 974,671; Nov. 1; Sp. p. 1340; Gaz. vol. 160; p. 208.

Johnson, Carl E., Quincy, Mass. Picture-frame support. No. 961,614; June 14; Sp. p. 2841; Gaz. vol. 155; p. 491.

Johnson, Carl E., assignor to United States Electrical Manufacturing Company, Los Angeles, Cal. Brush-holder for dynamo-electric machines. No. 960,095; May 31; Sp. p. 7965; Gaz. vol. 154; p. 1338.

Johnson, Carl F., Milwaukee, Wis. Damper or draft controlling device. No. 961,615; June 14; Sp. p. 2842; Gaz. vol. 155; p. 491.

Johnson, Carl J. F., Cleveland, Ohio. Furnace-door. No. 967,927; Aug. 23; Sp. p. 4425; Gaz. vol. 157; p. 779.

Johnson, Carl W., Brockwayville, and C. M. Rathke, Pittsburg, Pa. Water-gage. No. 960,944; June 7; Sp. p. 1404; Gaz. vol. 155; p. 237.

Johnson, Cary H., St. Paul, Minn. Milk-can. No. 964,264; July 12; Sp. p. 2687; Gaz. vol. 156; p. 443.

Johnson, Charles, Buffalo, N. Y. Demountable rim for automobiles. No. 965,715; July 26; Sp. p. 5879; Gaz. vol. 156; p. 999.

Johnson, Charles, Bozeman, Mont. Train-order holder. No. 970,831; Sept. 20; Sp. p. 3645; Gaz. vol. 158; p. 622.

Johnson, Charles A., Unionville, Conn. Tool-post. No. 949,078; Feb. 15; Sp. p. 2733; Gaz. vol. 151; p. 486.

Johnson, Charles A., Jr., East Orange, N. J. Plumber's pot. No. 973,867; Oct. 25; Sp. p. 5146; Gaz. vol. 159; p. 894.

Johnson, Charles A., Everett, Mass., assignor to C. A. Batchelder, St. Albans, Me. Shoe tree and stretcher. No. 953,747; Apr. 5; Sp. p. 130; Gaz. vol. 153; p. 25.

Johnson, Charles B., and H. H. Smith, Columbus, Ohio. Nut-lock. No. 952,810; Mar. 22; Sp. p. 4821; Gaz. vol. 152; p. 867.

Johnson, Charles B., and P. Van Vlaanderen, assignors to The Johnson Van Vlaanderen Machine Co., Paterson, N. J. Moire-machine. No. 961,863; June 21; Sp. p. 3382; Gaz. vol. 155; p. 599.

Johnson, Charles E., Huntsville, Ala. Canceling-machine. No. 969,061; Aug. 30; Sp. p. 6854; Gaz. vol. 157; p. 1193.

Johnson, Charles E., assignor to The Corbin Cabinet Lock Company, New Britain, Conn. Key-cutting machine. No. 969,702; Sept. 6; Sp. p. 1159; Gaz. vol. 158; p. 188.

Johnson, Charles E., assignor to The Corbin Cabinet Lock Company, New Britain, Conn. Lock. No. 972,865; Oct. 18; Sp. p. 2951; Gaz. vol. 159; p. 523.

Johnson, Charles E., assignor to Muskegon Motor Specialties Company, Muskegon, Mich. Micrometer. No. 972,196; Oct. 11; Sp. p. 1495; Gaz. vol. 159; p. 265.

Johnson, Charles H., Petaluma, Cal. Seal-lock for receptacles. No. 948,783; Feb. 8; Sp. p. 2135; Gaz. vol. 151; p. 363.

Johnson, Charles H., Petaluma, Cal. Seal-holding mechanism for locks. No. 951,613; Mar. 8; Sp. p. 2332; Gaz. vol. 152; p. 404.

Johnson, Charles H., Petaluma, Cal. Door-securer. No. 969,631; Sept. 6; Sp. p. 1021; Gaz. vol. 158; p. 163.

Johnson, Charles H., Dumbarton, Scotland. Electrical torsiometer. No. 979,503; Dec. 27; Sp. p. 4494; Gaz. vol. 161; p. 794.

Johnson, Charles H., Springfield, Ill., assignor, by mesne assignments, to The Pittsburg Pneumatic Company, Canton, Ohio. Fluid-pressure-operated tool. No. 947,181; Jan. 18; Sp. p. 4791; Gaz. vol. 150; p. 790.

Johnson, Charles H., Canton, Ohio, assignor to The Ridgely and Johnson Tool Company, Springfield, Ill. Driving mechanism for divided axles. No. 951,914; Mar. 15; Sp. p. 2966; Gaz. vol. 152; p. 538.

Alphabetical list of patentees—Continued.

Johnson, Charles H., Canton, Ohio, assignor to The Ridgely and Johnson Tool Company, Springfield, Ill. Driving mechanism for divided axles. No. 951,915; Mar. 15; Sp. p. 2973; Gaz. vol. 152; p. 538.
Johnson, Charles J., Chicago, Ill. Show-case. No. 961,137; June 14; Sp. p. 1806; Gaz. vol. 155; p. 328.
Johnson, Charles J., Denver, Colo. Attachment for harness. No. 961,967; June 21; Sp. p. 3601; Gaz. vol. 155; p. 633.
Johnson, Charles J., New York, N. Y. Combined feed-water heater and grease and oil separator. No. 966,022; Aug. 2; Sp. p. 386; Gaz. vol. 157; p. 61.
Johnson, Charles J., Clifton, assignor of one-half to J. J. Lumpkin, Meridian, Tex. Traction gang-plow. No. 954,969; Apr. 12; Sp. p. 2791; Gaz. vol. 153; p. 472.
Johnson, Charles L., Seattle, Wash. Saw-tool. No. 946,048; Jan. 11; Sp. p. 2307; Gaz. vol. 150; p. 383.
Johnson, Charles M., Avalon, Pa., assignor to Crucible Steel Company of America. Reducing metallic oxids. No. 964,868; July 19; Sp. p. 4082; Gaz. vol. 156; p. 681.
Johnson, Charles M., Avalon, assignor to Crucible Steel Company of America, Pittsburg, Pa. Manufacture of steel. No. 964,869; July 19; Sp. p. 4087; Gaz. vol. 156; p. 681.
Johnson, Charles M., Avalon, assignor to Crucible Steel Company of America, Pittsburg, Pa. Treatment of ores. No. 964,870; July 19; Sp. p. 4088; Gaz. vol. 156; p. 681.
Johnson, Charles M., Avalon, assignor to Crucible Steel Company of America, Pittsburg, Pa. Furnace for reducing metallic oxids. No. 964,871; July 19; Sp. p. 4090; Gaz. vol. 156; p. 681.
Johnson, Charles M., Avalon, Pa., assignor to Crucible Steel Company of America. Treatment of ores. No. 977,096; Nov. 29; Sp. p. 6671; Gaz. vol. 160; p. 1136.
Johnson, Charles P., Eureka, Kans. Adjustable wrench. No. 957,214; May 10; Sp. p. 1545; Gaz. vol. 154; p. 273.
Johnson, Charles S., Chicago, Ill., assignor, by mesne assignments, to The Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Voltage-regulator. No. 961,411; June 14; Sp. p. 2395; Gaz. vol. 155; p. 424.
Johnson, Charles T., Canal Dover, Ohio. Sad-iron. No. 949,481; Feb. 15; Sp. p. 3568; Gaz. vol. 151; p. 622.
Johnson, Charles W., *et al.* (See Hemphill, Henry B., assignor.)
Johnson, Charles W., Edinburgh, Scotland. Golf-ball trap for golf putting practice. No. 954,299; Apr. 5; Sp. p. 1287; Gaz. vol. 153; p. 213.
Johnson, Charles W., South Kaukauna, Wis. Receptacle. No. 975,958; Nov. 15; Sp. p. 4124; Gaz. vol. 160; p. 697.
Johnson, Charley L., Longville, La. Wheel-hub. No. 959,015; May 24; Sp. p. 5642; Gaz. vol. 154; p. 948.
Johnson, Charlie J., Osseo, Wis. Feeding device for baling-presses. No. 959,144; May 24; Sp. p. 5920; Gaz. vol. 154; p. 991.
Johnson, Charls J., Chicago, Ill. Fastening device for doors and the like. No. 964,265; July 12; Sp. p. 2688; Gaz. vol. 156; p. 444.
Johnson, Chris P., Newcastle, Cal. Gearing. No. 960,945; June 7; Sp. p. 1407; Gaz. vol. 155; p. 237.
Johnson, Clarence C., Yonkers, assignor to American District Telegraph Company, New York, N. Y. Call-box signaling system and apparatus therefor. No. 957,968; May 17; Sp. p. 3181; Gaz. vol. 154; p. 561.
Johnson, Clarence D., Providence, R. I. Tea and coffee strainer. No. 956,493; Apr. 26; Sp. p. 6094; Gaz. vol. 153; p. 1055.
Johnson, Clarence H., Beverly, assignor to Burrows Lock Nut & Bolt Company, West Gloucester, Mass. Nut-lock. No. 973,665; Oct. 25; Sp. p. 4743; Gaz. vol. 159; p. 824.
Johnson, Conrad T., *et al.* (See Danielson, August A., assignor.)
Johnson, Cyrus C., Taylorville, Ill. Railway-switch. No. 972,866; Oct. 18; Sp. p. 2953; Gaz. vol. 159; p. 523.
Johnson, Cyrus C., Taylorville, Ill. Lock for switch-operating mechanisms. No. 972,867; Oct. 18; Sp. p. 2957; Gaz. vol. 159; p. 524.
Johnson, Cyrus C., Taylorville, Ill. Switch. No. 972,868; Oct. 18; Sp. p. 2959; Gaz. vol. 159; p. 524.
Johnson, Dade, Lemonville, Mo. Spark-arrester. No. 949,432; Feb. 15; Sp. p. 3481; Gaz. vol. 151; p. 608.
Johnson, Daniel, Columbus Grove, Ohio. Nut-lock. No. 970,505; Sept. 20; Sp. p. 2902; Gaz. vol. 158; p. 507.
Johnson, Daniel R., Dayton, Ohio. Revolving upholsterer's brush. No. 962,433; June 28; Sp. p. 4628; Gaz. vol. 155; p. 817.
Johnson, David C. (See Carson and Johnson.)
Johnson, Edward H., Southall, England. Tobacco-pipe. No. 958,160; Aug. 23; Sp. p. 4967; Gaz. vol. 157; p. 857.
Johnson, Edward M. (See McHardy, James A., assignor.)
Johnson, Edwin E., San Martin, Cal., assignor of one-half to M. J. Pope and one-half to F. D. Thorne, St. Louis, Mo. Detergent. No. 965,908; Aug. 2; Sp. p. 129; Gaz. vol. 157; p. 22.
Johnson, Edwin M., Philadelphia, Pa. Automatic gas-fixture. No. 956,531; May 3; Sp. p. 50; Gaz. vol. 154; p. 11.
Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Talking-machine. (Reissue.) No. 13,039; Jan. 4; Sp. p. 1591; Gaz. vol. 150; p. 246.
Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Talking-machine. No. 946,442; Jan. 11; Sp. p. 3231; Gaz. vol. 150; p. 519.
Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 951,127; Mar. 8; Sp. p. 1345; Gaz. vol. 152; p. 245.
Johnson, Elmer H., New York, N. Y. Game apparatus. No. 963,293; July 5; Sp. p. 669; Gaz. vol. 156; p. 94.
Johnson, Elmer M., St. Cloud, Minn. Cuff-holder. No. 945,097; Jan. 4; Sp. p. 193; Gaz. vol. 150; p. 32.
Johnson, Emil, Potlatch, Idaho. Sawmill set-works. No. 952,811; Mar. 22; Sp. p. 4822; Gaz. vol. 152; p. 867.
Johnson, Emil A., Olivia, Minn. Car-wheel. No. 958,924; May 24; Sp. p. 5479; Gaz. vol. 154; p. 918.
Johnson, Emil M., Waupaca, Wis. Meat-press. No. 949,234; Feb. 15; Sp. p. 3046; Gaz. vol. 151; p. 539.
Johnson, Enos, Pittsburg, Pa. Cuspidor. No. 964,472; July 12; Sp. p. 3100; Gaz. vol. 156; p. 509.
Johnson, Francis T., Chicago, Ill. Clothes-drier. No. 950,923; Mar. 1; Sp. p. 961; Gaz. vol. 152; p. 154.
Johnson, Francis T., Chicago, Ill. Clothes-drier. No. 950,924; Mar. 1; Sp. p. 963; Gaz. vol. 152; p. 154.
Johnson, Frank D., Worcester, Mass. Key-fastener. No. 976,807; Nov. 22; Sp. p. 5983; Gaz. vol. 160; p. 1010.
Johnson, Frank H., Faribault, Minn. Motor-vehicle. No. 958,501; May 17; Sp. p. 4563; Gaz. vol. 154; p. 748.
Johnson, Frederic I., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Combined brush and cleaning rod. No. 966,100; Aug. 2; Sp. p. 549; Gaz. vol. 157; p. 89.
Johnson, Frederick I., Fitchburg, Mass. Automatic pistol. No. 967,928; Aug. 23; Sp. p. 4427; Gaz. vol. 157; p. 779.
Johnson, Fritz, Racine, Wis. Flat-iron. No. 972,452; Oct. 11; Sp. p. 2020; Gaz. vol. 159; p. 354.
Johnson, Gehard L., Cottonwood, S. D. Game-trap. No. 969,958; Sept. 13; Sp. p. 1772; Gaz. vol. 158; p. 301.
Johnson, George A., assignor of one-half to T. White, Saginaw, Mich. Combined rail chair and brace. No. 963,294; July 5; Sp. p. 670; Gaz. vol. 156; p. 94.
Johnson, George E., Des Moines, Iowa. Acetylene-gas generator. No. 953,839; Apr. 5; Sp. p. 313; Gaz. vol. 153; p. 56.
Johnson, George E., Ellensburg, Wash. Catcher for train-order hoops. No. 954,300; Apr. 5; Sp. p. 1289; Gaz. vol. 153; p. 213.
Johnson, George H., Paxton, Mass. Blacking heated iron. No. 945,954; Jan. 11; Sp. p. 2115; Gaz. vol. 150; p. 352.
Johnson, George H., Chicago, Ill. Fire-escape. No. 971,276; Sept. 27; Sp. p. 4545; Gaz. vol. 158; p. 795.
Johnson, Godfrey B., London, England. Apparatus for producing corrugated metal sheets. No. 971,277; Sept. 27; Sp. p. 4546; Gaz. vol. 158; p. 795.
Johnson, Gunnar, New York, N. Y. Picture-hanger. No. 961,616; June 14; Sp. p. 2848; Gaz. vol. 155; p. 492.
Johnson, Gustaf, Chicago, Ill. Wrench. No. 951,398; Mar. 8; Sp. p. 1916; Gaz. vol. 152; p. 333.
Johnson, Gustaf, Chicago, Ill. Carbureting apparatus. No. 959,350; May 24; Sp. p. 6338; Gaz. vol. 154; p. 1060.
Johnson, Gustaf, Pigeon Cove, assignor to F. J. V. Dakin, Boston, Mass. Voting-machine. No. 960,020; May 31; Sp. p. 7809; Gaz. vol. 154; p. 1313.
Johnson, Gustaf H., Cimarron, N. Mex. Clevis. No. 958,645; May 17; Sp. p. 4844; Gaz. vol. 154; p. 795.
Johnson, Gustaf I. D., Malden, assignor of one-half to himself, and one-half to H. Blumenthal, Dorchester, Mass. Sash-fastener. No. 979,504; Dec. 27; Sp. p. 4496; Gaz. vol. 161; p. 794.
Johnson, Gustavus J., Chicago, Ill. Secondary battery. No. 969,876; Sept. 13; Sp. p. 1589; Gaz. vol. 158; p. 273.
Johnson, Hans, South Boston, Mass. Fire-escape. No. 961,299; June 14; Sp. p. 2163; Gaz. vol. 155; p. 387.
Johnson, Harry L., assignor of one-half to W. K. Kellogg, Battle Creek, Mich. Conveyer for carton-sealing machines. No. 976,264; Nov. 22; Sp. p. 4835; Gaz. vol. 160; p. 826.
Johnson, Harry M., Livermore, Cal. Combination instrument. No. 964,785; July 19; Sp. p. 3922; Gaz. vol. 156; p 652.
Johnson, Harry T., New York, N. Y. Commutator. No. 958,405; May 17; Sp. p. 4376; Gaz. vol. 154; p. 715.
Johnson, Harry W., Stockport, England. Means for stoppering or sealing bottles or other receptacles. No. 955,079; Apr. 12; Sp. p. 2992; Gaz. vol. 153; p. 507.
Johnson, Henry. (See Enderby, George, assignor.)
Johnson, Henry, Saxilby, England. Melting and refining iron. No. 952,260; Mar. 15; Sp. p. 3625; Gaz. vol. 152; p. 651.
Johnson, Henry, Woodford, Wis. Surgical instrument. No. 979,505; Dec. 27; Sp. p. 4498; Gaz. vol. 161; p. 794.
Johnson, Henry C., Indianapolis, Ind. Stock-fountain. No. 963,578; July 5; Sp. p. 1242; Gaz. vol. 156; p. 190.
Johnson, Henry F., Bristow, Okla. Renewal check-book. No. 953,956; Apr. 5; Sp. p. 534; Gaz. vol. 153; p. 97.
Johnson, Henry M., Nome, N. D. Weed-eradicator. No. 964,266; July 12; Sp. p. 2691; Gaz. vol. 156; p. 444.
Johnson, Henry W. (See Morris, Henry B., assignor.)
Johnson, Horace G., assignor of one-half to H. S. Cooper, Kenosha, Wis. Garment. No. 973,200; Oct. 18; Sp. p. 3753; Gaz. vol. 159; p. 641.
Johnson, Isaac R., and G. Michaels, New York, N. Y. Signaling device. No. 957,164; May 3; Sp. p. 1418; Gaz. vol. 154; p. 227.

Alphabetical list of patentees—Continued.

Johnson, Iver, Seattle, Wash. Door-hanger. No. 949,826; Feb. 22; Sp. p. 4284; Gaz. vol. 151; p. 772.
Johnson, James H., Washington, D. C. Sanitary napkin and belt for supporting the same. No. 964,267; July 12; Sp. p. 2693; Gaz. vol. 156; p. 444.
Johnson, James H., Washington, D. C. Hose-supporter. No. 978,592; Dec. 13; Sp. p. 2561; Gaz. vol. 161; p. 437.
Johnson, James N. and J. H., Flomaton, Ala. Motor-wheel. No. 972,453; Oct. 11; Sp. p. 2022; Gaz. vol. 159; p. 355.
Johnson, James R., Milltown, Ga. Railway-joint. No. 946,698; Jan. 18; Sp. p. 3762; Gaz. vol. 150; p. 629.
Johnson, James T., Memphis, Tenn. Automobile-signal. No. 949,433; Feb. 15; Sp. p. 3482; Gaz. vol. 151; p. 608.
Johnson-Jervis, George, New York, N. Y. Game apparatus. No. 972,382; Oct. 11; Sp. p. 1876; Gaz. vol. 159; p. 329.
Johnson, Jesse B., assignor to S. Lubin, Philadelphia, Pa. Film-winding mechanism for kinetoscopes. No. 978,454; Dec. 13; Sp. p. 2237; Gaz. vol. 161; p. 388.
Johnson, John, Philadelphia, Pa. Wrench. No. 954,301; Apr. 5; Sp. p. 1290; Gaz. vol. 153; p. 213.
Johnson, John, Crookston, Scotland. Door-lock. No. 958,406; May 17; Sp. p. 4377; Gaz. vol. 154; p. 715.
Johnson, John A. (See Schenck and Johnson.)
Johnson, John A., Wasco, Ill. Hay-loader. No. 947,018; Jan. 18; Sp. p. 4493; Gaz. vol. 150; p. 740.
Johnson, John A., Chicago, Ill. Sash-fastener. No. 949,359; Feb. 15; Sp. p. 3319; Gaz. vol. 151; p. 581.
Johnson, John A., and C. P. Wood, St. Paul, Minn. Egg-case. No. 963,769; July 12; Sp. p. 1636; Gaz. vol. 156; p. 276.
Johnson, John B., Bellingham, Wash. Swingletree-hook. No. 954,573; Apr. 12; Sp. p. 1867; Gaz. vol. 153; p. 334.
Johnson, John F., *et al.* (See Kell, Henry, assignor.)
Johnson, John G. B., Pine Valley, Manitoba, Canada. Water-grate and protector. No. 967,128; Aug. 9; Sp. p. 2797; Gaz. vol. 157; p. 459.
Johnson, John H. (See Johnson, James N. and J. H.)
Johnson, John H., Delaware township, Delaware county, Ind. Brooder. No. 953,667; Mar. 29; Sp. p. 6642; Gaz. vol. 152; p. 1184.
Johnson, John H., Barrie, Ontario, Canada. Sewer-trench excavator. No. 977,016; Nov. 29; Sp. p. 6506; Gaz. vol. 160; p. 1109.
Johnson, John M., A. C., and A., Sunnyvale, Cal. Two-cycle gas-engine. No. 948,860; Feb. 8; Sp. p. 2281; Gaz. vol. 151; p. 388.
Johnson, John N., assignor to M. E. Layne, Houston, Tex. Wire-winding machine. No. 972,623; Oct. 11; Sp. p. 2434; Gaz. vol. 159; p. 415.
Johnson, John O., Burtrum, Minn. Extension-table. No. 945,955; Jan. 11; Sp. p. 2117; Gaz. vol. 150; p. 352.
Johnson, John P. (See Ryder and Johnson.)
Johnson, John W., Kansas City, Mo. Buckle. No. 964,973; July 19; Sp. p. 4291; Gaz. vol. 156; p. 716.
Johnson and Johnson. (See Lee, John E., assignor.)
Johnson & Johnson. (See Simmons, Bert G., assignor.)
Johnson, Jonathan, Lowell, Mass. Check-valve. No. 978,757; Dec. 13; Sp. p. 2901; Gaz. vol. 161; p. 491.
Johnson, Joseph, New Orleans, La. Basket. No. 960,555; June 7; Sp. p. 650; Gaz. vol. 155; p. 106.
Johnson, Joseph A., Hampton, N. H. Extension-ladder. No. 952,432; Mar. 15; Sp. p. 3957; Gaz. vol. 152; p. 709.
Johnson, Joseph E. (See Scobee, James E., assignor.)
Johnson, Joseph E., Jr., Longdale, Va. Stock-line recorder. No. 951,128; Mar. 8; Sp. p. 1350; Gaz. vol. 152; p. 246.
Johnson, Joseph E., J. M. Perry, and B. McMahon, Princeton, Mo.; said Perry and McMahon assignors to said Johnson. Wire-stretcher. No. 975,247; Nov. 8; Sp. p. 2650; Gaz. vol. 160; p. 428.
Johnson, Joseph M., Normal, Ill. Bulletin-board. No. 969,703; Sept. 6; Sp. p. 1161; Gaz. vol. 158; p. 188.
Johnson, Joseph S., Lodi, Ohio. Latch. No. 975,361; Nov. 8; Sp. p. 2878; Gaz. vol. 160; p. 465.
Johnson, Josephine, Gary, Ind. Safety-pin. No. 951,567; Mar. 8; Sp. p. 2244; Gaz. vol. 152; p. 390.
Johnson, Lawrence H. (See Bricker, Edward J., assignor.)
Johnson, Louis K., New York, N. Y. Type-setting apparatus. No. 960,096; May 31; Sp. p. 7966; Gaz. vol. 154; p. 1338.
Johnson, Louis K., New York, and A. A. Low, Horseshoe, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus. No. 946,443; Jan. 11; Sp. p. 3236; Gaz. vol. 150; p. 520.
Johnson, Manander M., Clay Center, Nebr. Heater for incubators. No. 970,057; Sept. 13; Sp. p. 1980; Gaz. vol. 158; p. 335.
Johnson, Marquis H., assignor to Buffalo Specialty Company, Buffalo, N. Y. Hacksaw-machine. No. 967,640; Aug. 16; Sp. p. 3837; Gaz. vol. 157; p. 659.
Johnson, Mary E., trustee. (See Cobb, Lyman H., assignor.)
Johnson, Mary E., trustee. (See Johnson, Frederic I., assignor.)
Johnson, Mary E., trustee. (See Ringqvist, Otto W., assignor.)
Johnson, Melvin N. (See Reed, Lloyd R., assignor.)
Johnson, Michael J., Portland, Oreg. Book and newspaper holder. No. 974,067; Oct. 25; Sp. p. 5561; Gaz. vol. 159; p. 963.
Johnson, Nels, Batavia, Ill., assignor to Challenge Company, Batavia, Ill. Silo. No. 979,767; Dec. 27; Sp. p. 5082; Gaz. vol. 161; p. 885.
Johnson, Nels A. (See Thompson, Alfred, assignor.)
Johnson, Nels L. (See Roberts and Johnson.)
Johnson, Nelson B., Webster, Mass. Supply-valve. No. 973,511; Oct. 25; Sp. p. 4406; Gaz. vol. 159; p. 770.
Johnson, Oliver J., Wheeling, W. Va. Can-body-making machine. No. 971,278; Sept. 27; Sp. p. 4549; Gaz. vol. 158; p. 795.
Johnson, Oscar, Chicago, Ill. Air-brake system. No. 969,877; Sept. 13; Sp. p. 1591; Gaz. vol. 158; p. 273.
Johnson, Oscar, Chicago, Ill. Compressed-air system for railway-cars. No. 971,896; Oct. 4; Sp. p. 832; Gaz. vol. 159; p. 143.
Johnson, Oscar L., Streator, Ill. Staging-bracket. No. 958,746; May 24; Sp. p. 5059; Gaz. vol. 154; p. 855.
Johnson, Oscar L., Chicago, assignor of one-half to M. E. Gray, Evanston, Ill. Vegetable and fruit slicing machine. No. 964,915; July 19; Sp. p. 4181; Gaz. vol. 156; p. 697.
Johnson, Oscar W. (See Feabrantz, William A., assignor.)
Johnson, Oscar W., assignor to Ward Pump Company, Rockford, Ill. Pump. No. 949,277; Feb. 15; Sp. p. 3136; Gaz. vol. 151; p. 553.
Johnson, Oscar W., Hackensack, N. J., assignor of one-half to J. A. Gregory, New York, N. Y. Double-bladed tool. No. 978,165; Dec. 13; Sp. p. 1625; Gaz. vol. 161; p. 287.
Johnson, Otter, Denver, Colo. Stitch-removing punch. No. 952,333; Mar. 15; Sp. p. 3779; Gaz. vol. 152; p. 676.
Johnson, Paul, Jackson, Mich. Cabinet-cuspidor. No. 963,443; July 5; Sp. p. 964; Gaz. vol. 156; p. 144.
Johnson, Peter, Ironwood, Mich. Cultivator. No. 948,700; Feb. 8; Sp. p. 1955; Gaz. vol. 151; p. 335.
Johnson, Peter R., Fairdale, N. D. Photographic-printing machine. No. 968,953; Aug. 30; Sp. p. 6638; Gaz. vol. 157; p. 1156.
Johnson, Ragnar, New York, N. Y. Speed-meter. No. 945,327; Jan. 4; Sp. p. 709; Gaz. vol. 150; p. 109.
Johnson, Raymond D., Albany, N. Y. Means for cushioning hydraulic pressure in feed-pipes. No. 962,355; June 21; Sp. p. 4440; Gaz. vol. 155; p. 765.
Johnson, Richard B., Golts, Md. Buttonhole-protector and neckband-guard. No. 947,104; Jan. 18; Sp. p. 4646; Gaz. vol. 150; p. 766.
Johnson, Robert, Brown Station, N. Y. Device for setting and removing flanges. No. 968,161; Aug. 23; Sp. p. 4969; Gaz. vol. 157; p. 857.
Johnson, Rufus P., and E. W. Ramsey, Dalley, La. Boll-weevil destroyer. No. 951,441; Mar. 8; Sp. p. 1991; Gaz. vol. 152; p. 346.
Johnson, Samuel J., assignor of one-half to T. Finn, Fort Worth, Tex. Combined crutch and chair. No. 979,959; Dec. 27; Sp. p. 5491; Gaz. vol. 161; p. 949.
Johnson, Samuel O., Key West, Fla. Water-purifying compound. No. 966,559; Aug. 9; Sp. p. 1570; Gaz. vol. 157; p. 267.
Johnson, Samuel O., Elmhurst, assignor of one-third to T. O. Johnson, San Leandro, and one-third to A. Berthelsen, West Berkeley, Cal. Nipple-holder. No. 947,713; Jan. 25; Sp. p. 6007; Gaz. vol. 150; p. 1000.
Johnson, Sigfred. (See Larson and Johnson.)
Johnson, Simon C., De Kalb, Ill. Boat. No. 946,513; Jan. 11; Sp. p. 3400; Gaz. vol. 150; p. 544.
Johnson, Simon T., Merriam Park, Minn. Surface-finishing machine. No. 949,037; Feb. 15; Sp. p. 2660; Gaz. vol. 151; p. 474.
Johnson, Solomon F. (See Daugherty and Johnson.)
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Recoiling-barrel firearm. No. 945,328; Jan. 4; Sp. p. 711; Gaz. vol. 150; p. 109.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Recoiling-barrel gun. No. 946,134; Jan. 11; Sp. p. 2464; Gaz. vol. 150; p. 411.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Repeating firearm. No. 958,407; May 17; Sp. p. 4379; Gaz. vol. 154; p. 715.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 959,016; May 24; Sp. p. 5643; Gaz. vol. 154; p. 949.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 959,942; May 31; Sp. p. 7619; Gaz. vol. 154; p. 1285.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Repeating firearm. No. 960,646; June 7; Sp. p. 835; Gaz. vol. 155; p. 137.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Tubular-magazine gun. No. 961,412; June 14; Sp. p. 2396; Gaz. vol. 155; p. 424.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 962,764; June 28; Sp. p. 5337; Gaz. vol. 155; p. 933.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Take-down gun. No. 962,899; June 28; Sp. p. 5596; Gaz. vol. 155; p. 979.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 963,444; July 5; Sp. p. 966; Gaz. vol. 156; p. 145.

Alphabetical list of patentees—Continued.

Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Take-down gun. No. 964,974; July 19; Sp. p. 4292; Gaz. vol. 156; p. 716.

Johnson, Thomas E., assignor of one-twelfth to F. M. Stegall, two-twelfths to W. H. Allen, one-twelfth to G. Stegall, one-twelfth to C. A. Stegall, and one-twelfth to A. Stegall, Fort Worth, Tex. Adjustable support and bracket for shade-rollers and curtains. No. 947,240; Jan. 25; Sp. p. 4927; Gaz. vol. 150; p. 839.

Johnson, Thomas H., Pittsburg, Pa. Apparatus for ventilating tunnels. No. 975,248; Nov. 8; Sp. p. 2651; Gaz. vol. 160; p. 428.

Johnson, Thomas J., Norman, Okla. Pump. No. 951,003; Mar. 1; Sp. p. 1117; Gaz. vol. 152; p. 180.

Johnson, Thomas L., Mooresburg, Tenn. Corner-chisel. No. 952,744; Mar. 22; Sp. p. 4669; Gaz. vol. 152; p. 845.

Johnson, Thomas O., *et al.* (See Johnson, Samuel O., assignor.)

Johnson, Thomas O., deceased, Hartford, Conn.; J. J. Curry, administrator. Clutch. No. 951,992; Mar. 15; Sp. p. 3114; Gaz. vol. 152; p. 562.

Johnson, Thomas S., assignor to Scranton Steam Pump Company, Scranton, Pa. Renewable grate-bar leaf. No. 949,079; Feb. 15; Sp. p. 2736; Gaz. vol. 151; p. 487.

Johnson Van Vlaanderen Machine Co., The. (See Johnson and Van Vlaanderen, assignors.)

Johnson, Victor T., and C. G. Arvidson, Minneapolis, Minn. Dust-collector. No. 964,428; July 12; Sp. p. 3010; Gaz. vol. 156; p. 496.

Johnson, Walter, Brooklyn, N. Y. Art glass and making the same. No. 952,527; Mar. 22; Sp. p. 4185; Gaz. vol. 152; p. 769.

Johnson, Walter, Clio, Mich. Cement-tile machine. No. 968,360; Aug. 23; Sp. p. 5376; Gaz. vol. 157; p. 928.

Johnson, Walter J. O., Chicago, Ill. Internal-combustion engine. No. 973,048; Oct. 18; Sp. p. 3395; Gaz. vol. 159; p. 588.

Johnson, Walter R. (See Baker and Johnson.)

Johnson, William, Chicago, Ill. Punching-press. No. 966,689; Aug. 9; Sp. p. 1819; Gaz. vol. 157; p. 311.

Johnson, William, Montague, assignor of one-half to G. H. Nelson, Whitehall, Mich. Internal-combustion engine. No. 976,180; Nov. 22; Sp. p. 4615; Gaz. vol. 160; p. 794.

Johnson, William A., Buffalo, N. Y. Fruit-picker. No. 964,108; July 12; Sp. p. 2383; Gaz. vol. 156; p. 391.

Johnson, William A., Chicago, Ill. Shock-absorber. No. 975,249; Nov. 8; Sp. p. 2653; Gaz. vol. 160; p. 428.

Johnson, William A., Yonkers, N. Y. Racket-press. No. 978,455; Dec. 13; Sp. p. 2238; Gaz. vol. 161; p. 388.

Johnson, William A., assignor of one-half to W. H. Sienknecht, Oliver Springs, Tenn. Barrel-hanger. No. 965,526; July 26; Sp. p. 5478; Gaz. vol. 156; p. 933.

Johnson, William B., assignor to Rockford Lathe & Drill Company, Rockford, Ill. Centering-machine. No. 959,865; May 31; Sp. p. 7437; Gaz. vol. 154; p. 1258.

Johnson, William B. J. (See Fawcett, John W., assignor.)

Johnson, William C., Fence, Wis. Attachment for wheelbarrows. No. 974,571; Nov. 1; Sp. p. 1144; Gaz. vol. 160; p. 173.

Johnson, William F., Basin, Wyo. Rail-joint. No. 977,652; Dec. 6; Sp. p. 526; Gaz. vol. 161; p. 79.

Johnson, William F., Basin, Wyo. Rail-joint. No. 977,743; Dec. 6; Sp. p. 713; Gaz. vol. 161; p. 111.

Johnson, William G., *et al.* (See Williams, Josiah, assignor.)

Johnson, William G., Kingfisher, Okla. Planter. No. 951,818; Mar. 15; Sp. p. 2756; Gaz. vol. 152; p. 504.

Johnson, William H., Brandon, Vt. Strength-testing machine. No. 948,140; Feb. 1; Sp. p. 746; Gaz. vol. 151; p. 122.

Johnson, William R., Little Rock, Ark. Nose-piece for eyeglasses. No. 977,451; Dec. 6; Sp. p. 51; Gaz. vol. 161; p. 11.

Johnson, William T. S. (See Blum, Johnson, and Kropf.)

Johnson, Woolsey M., assignor to The Continuous Zinc Furnace Company, Hartford, Conn. Apparatus for smelting ores yielding a volatile metal. No. 964,268; July 12; Sp. p. 2694; Gaz. vol. 156; p. 445.

Johnson, Wills, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Stuffing-box. No. 975,045; Nov. 8; Sp. p. 2199; Gaz. vol. 160; p. 357.

Johnston, Albert E., Lowell, Mass. Rug and carpet stretcher. No. 967,929; Aug. 23; Sp. p. 4428; Gaz. vol. 157; p. 779.

Johnston, Allen, Ottumwa, Iowa. Gear-wheel. No. 951,503; Mar. 8; Sp. p. 2122; Gaz. vol. 152; p. 368.

Johnston, Allen, Ottumwa, Iowa, and F. B. Peck, Mount Vernon, Mo. Slider for bolting-screens. No. 946,548; Jan. 18; Sp. p. 3458; Gaz. vol. 150; p. 581.

Johnston, Arthur C., Philadelphia, Pa., assignor to The J. M. Dodge Company, Naugatuck, Conn. Means for turning hoisting-buckets. No. 958,646; May 17; Sp. p. 4845; Gaz. vol. 154; p. 796.

Johnston, Arthur C., Wyncote, Pa., assignor to Dodge Coal Storage Company, Naugatuck, Conn. Transferring material from a high to a lower level and piling the material. No. 964,429; July 12; Sp. p. 3011; Gaz. vol. 156; p. 496.

Johnston, Arthur C., Wyncote, Pa., assignor to Dodge Coal Storage Company, Naugatuck, Conn. Apparatus for transferring material from a high to a lower level and piling the material. No. 964,430; July 12; Sp. p. 3013; Gaz. vol. 156; p. 497.

Johnston, Edward A., Akron, Ohio., assignor to International Harvester Company. Dynamometer. No. 950,511; Mar. 1; Sp. p. 105; Gaz. vol. 152; p. 18.

Johnston, George S., St. Louis, Mo. Vehicle-heater. No. 969,784; Sept. 13; Sp. p. 1377; Gaz. vol. 158; p. 242.

Johnston Harvester Company, The. (See Maul, Christian, assignor.)

Johnston, Herbert L., assignor to The Hobart Electric Manufacturing Company, Troy, Ohio. Driving mechanism. No. 950,635; Mar. 1; Sp. p. 369; Gaz. vol. 152; p. 59.

Johnston, Horace G., Corsicana, Tex. Unscrewing mechanism for well-tubes. No. 959,351; May 24; Sp. p. 6341; Gaz. vol. 154; p. 1060.

Johnston, Horace G., Corsicana, Tex. Liner for steam-pumps. No. 979,960; Dec. 27; Sp. p. 5492; Gaz. vol. 161; p. 949.

Johnston, Howard M., and A. K. Bowman, Greensburg, Pa. Folding box and crate. No. 971,279; Sept. 27; Sp. p. 4551; Gaz. vol. 158; p. 796.

Johnston, James D., *et al.* (See Blair, George W., assignor.)

Johnston, James S., Utica, assignor of one-half to C. A. Powell, Whitesboro, N. Y. Presser-foot for sewing-machines. No. 954,970; Apr. 12; Sp. p. 2793; Gaz. vol. 153; p. 473.

Johnston, James W. (See Francart, Debay, Johnston, and Couch.)

Johnston, Jesse K. (See Fox, George G., assignor.)

Johnston, John, assignor to J. Johnston Company, Hyde Park, Mass. Vehicle. No. 945,169; Jan. 4; Sp. p. 334; Gaz. vol. 150; p. 56.

Johnston, John, assignor to Woonsocket Shuttle Co., Woonsocket, R. I. Loom-shuttle. No. 964,872; July 19; Sp. p. 4092; Gaz. vol. 156; p. 682.

Johnston, John I., Graham, Mo. Electric time-signal. No. 978,593; Dec. 13; Sp. p. 2562; Gaz. vol. 161; p. 437.

Johnston, Joseph E., Farmville, Va. Heading-machine. No. 967,129; Aug. 9; Sp. p. 2798; Gaz. vol. 157; p. 459.

Johnston, Lory E. (See Winger and Johnston.)

Johnston, Mahlon, Binghamton, N. Y. Safety line-hitch for wagons. No. 956,581; May 3; Sp. p. 160; Gaz. vol. 154; p. 28.

Johnston, Philip D., Cold Spring, N. Y., assignor to American Oil Engine Company. Internal-combustion engine. No. 946,780; Jan. 18; Sp. p. 3950; Gaz. vol. 150; p. 657.

Johnston, Robert M., assignor to The Ohio Brass Company, Mansfield, Ohio. Insulator. No. 974,672; Nov. 1; Sp. p. 1345; Gaz. vol. 160; p. 209.

Johnston, Robert T., assignor to The Campbell Printing Press & Manufacturing Company, Taunton, Mass. Cylinder-driving mechanism for printing-presses. No. 962,962; June 28; Sp. p. 5703; Gaz. vol. 155; p. 999.

Johnston, Thomas A., Chadron, assignor of one-fourth to T. L. Finley, Long Pine, Nebr. Rod-packing. No. 953,271; Mar. 29; Sp. p. 5792; Gaz. vol. 152; p. 1048.

Johnston, Thomas A., Chadron, and T. L. Finley, Long Pine, Nebr., assignors of three-fourths to said Johnston and one-fourth to said Finley. Rod-packing. No. 948,610; Feb. 8; Sp. p. 1754; Gaz. vol. 151; p. 303.

Johnston, Thomas C., Monticello, Ill. Side-board clamp. No. 979,309; Dec. 20; Sp. p. 4106; Gaz. vol. 161; p. 707.

Johnston, Willis, Schenectady, N. Y. Starting device. No. 975,134; Nov. 8; Sp. p. 2396; Gaz. vol. 160; p. 389.

Johnstone, Antoine P., Cleveland, Ohio. Scale. No. 954,302; Apr. 5; Sp. p. 1291; Gaz. vol. 153; p. 214.

Johnstone, Wilson F., Honolulu, Hawaii. Cane-loading machine. No. 969,164; Sept. 6; Sp. p. 26; Gaz. vol. 158; p. 7.

Joiner, Herbert C., Sweetgrass, Mont. Match-scratching attachment. No. 954,738; Apr. 12; Sp. p. 2259; Gaz. vol. 153; p. 392.

Joiner, Preston, Gregory, Tex. Paper-bag holder. No. 955,883; Apr. 26; Sp. p. 4767; Gaz. vol. 153; p. 844.

Joleen, Nels, Chicago, Ill. Advertising device. No. 975,622; Nov. 15; Sp. p. 3433; Gaz. vol. 160; p. 583.

Jolly, Benjamin R., Raleigh, N. C. Specific-gravity balance. No. 945,329; Jan. 4; Sp. p. 712; Gaz. vol. 150; p. 109.

Jolly, James. (See Willis and Jolly.)

Jonas, Charles W. (See Janik, Louis, assignor.)

Jonas, Ernest, New York, N. Y. Clothes-line holder. No. 974,388; Nov. 1; Sp. p. 694; Gaz. vol. 160; p. 105.

Jonasson, Meyer, New York, N. Y. Snow-melting apparatus. No. 945,546; Jan. 4; Sp. p. 1162; Gaz. vol. 150; p. 180.

Jones, Adrian D., Holloway, England. Electrode for electric-arc lights. No. 974,389; Nov. 1; Sp. p. 695; Gaz. vol. 160; p. 105.

Jones, Albert E., Fiume, Austria-Hungary. Turbine-drive of gyroscopic steering-gears of torpedoes. No. 954,634; Apr. 12; Sp. p. 2010; Gaz. vol. 153; p. 354.

Jones, Albert I., assignor to The Pfaudler Company, Rochester, N. Y. Drainage connection. No. 958,876; May 24; Sp. p. 5380; Gaz. vol. 154; p. 902.

Alphabetical list of patentees—Continued.

Jones, Albert M., assignor of one-fourth to G. C. Snyder and one-fourth to O. M. Snyder, Hagerstown, Md. Railway trip device. No. 972,111; Oct. 4; Sp. p. 1290; Gaz. vol. 159; p. 218.

Jones, Allen W., South Omaha, Nebr. Amusement apparatus. No. 946,730; Jan. 18; Sp. p. 3833; Gaz. vol. 150; p. 640.

Jones, Alva D., assignor to National Hygienic Service Company, Louisville, Ky. Combined carbonating and beer-dispensing apparatus. No. 963,047; July 5; Sp. p. 38; Gaz. vol. 156; p. 9.

Jones, Alva D., assignor to National Hygenic Service Company, Louisville, Ky. Beer-dispensing apparatus. No. 970,927; Sept. 20; Sp. p. 3817; Gaz. vol. 158; p. 651.

Jones, Alva D., Louisville, Ky., assignor to E. H. Noyes, Boston, Mass. Shade for incandescent lamps. No. 966,215; Aug. 2; Sp. p. 805; Gaz. vol. 157; p. 127.

Jones, Andrew B., assignor to Central Vending Machine Company, Lexington, Ky. Vending-machine. No. 948,226; Feb. 1; Sp. p. 914; Gaz. vol. 151; p. 149.

Jones, Andrew B., assignor to Central Vending Machine Company, Lexington, Ky. Vending-machine. No. 951,733; Mar. 8; Sp. p. 2563; Gaz. vol. 152; p. 444.

Jones, Annie O. S., Shreveport, La. Screen-bed. No. 979,506; Dec. 27; Sp. p. 4499; Gaz. vol. 161; p. 795.

Jones, Arthur B., St. Johns, Mich. Attachment for hay-loaders. No. 970,928; Sept. 20; Sp. p. 3821; Gaz. vol. 158; p. 652.

Jones, Belden D. (See Ricker, Adolph J., assignor.)

Jones, Belden D., Chicago, Ill. Car-door structure. No. 968,568; Aug. 30; Sp. p. 5822; Gaz. vol. 157; p. 1025.

Jones, Belden D., Chicago, Ill. Car-door. No. 969,878; Sept. 13; Sp. p. 1593; Gaz. vol. 158; p. 274.

Jones Bros. Overall Company. (See Jones, John R., assignor.)

Jones, C. W., *et al.* (See Eaton, Robert E., assignor.)

Jones, Cabell, Spray, N. C. Price-computing attachment for measuring-faucets. No. 960,946; June 7; Sp. p. 1409; Gaz. vol. 155; p. 237.

Jones, Charles E., Windsor, Mo. Whiffletree-hook. No. 954,810; Apr. 12; Sp. p. 2440; Gaz. vol. 153; p. 417.

Jones, Charles H. (See Lord and Jones.)

Jones, Charles H., Starkweather, N. D. Check-assorter. No. 959,943; May 31; Sp. p. 7622; Gaz. vol. 154; p. 1286.

Jones, Charles H., Peabody, Kans. Sewing-machine. No. 967,930; Aug. 23; Sp. p. 4430; Gaz. vol. 157; p. 780.

Jones, Charles L., Urbana, Ill. Pneumatic hammer. No. 946,368; Jan. 11; Sp. p. 3074; Gaz. vol. 150; p. 494.

Jones, Charles S., Marion, Ind. Nozzle. No. 973,940; Oct. 25; Sp. p. 5296; Gaz. vol. 159; p. 919.

Jones, Charles W., and J. A. Gibson, Urbana, Ill. Valve. No. 963,152; July 5; Sp. p. 324; Gaz. vol. 156; p. 45.

Jones, Chas. H., *et al.* (See Mapel, Lewis A., assignor.)

Jones, Chesney L., Haskell, assignor of one-half to E. Fredericks, Wanaque, N. J. Clothes-line prop. No. 973,666; Oct. 25; Sp. p. 4746; Gaz. vol. 159; p. 824.

Jones, Chester C., Beatrice, Nebr. Gasolene-engine. No. 963,898; July 12; Sp. p. 1946; Gaz. vol. 156; p. 319.

Jones, Chilion, Gananoque, Ontario, Canada. Handle for shovels and like tools. No. 967,197; Aug. 16; Sp. p. 2945; Gaz. vol. 157; p. 509.

Jones, Cora L., Stoughton, Mass. Rolling toy. No. 968,666; Aug. 30; Sp. p. 6032; Gaz. vol. 157; p. 1059.

Jones, Cyrus F., Oregon, Ill. Sparking plug for explosive-engines. No. 965,585; July 26; Sp. p. 5606; Gaz. vol. 156; p. 954.

Jones, Daniel. (See Jones, John M., assignor.)

Jones, Daniel W., Lancaster, Va. Sawmill. No. 963,770; July 12; Sp. p. 1637; Gaz. vol. 156; p. 276.

Jones, David F., assignor to D. Bennett and J. M. Male, Cleveland, Ohio. Combined holder and protector for milk-bottles and the like. No. 945,170; Jan. 4; Sp. p. 336; Gaz. vol. 150; p. 57.

Jones, David O., and G. E. Roberts, Poultney, Vt. Hoisting and automatic load-dumping mechanism. No. 945,547; Jan. 4; Sp. p. 1163; Gaz. vol. 150; p. 180.

Jones, David W., Taunton, Mass. Tire. No. 946,638; Jan. 18; Sp. p. 3642; Gaz. vol. 150; p. 610.

Jones, David W., Dora, Tex. Telephone selecting system. No. 949,235; Feb. 15; Sp. p. 3047; Gaz. vol. 151; p. 539.

Jones, David W., and E. W. Koppe, Los Angeles, Cal. Centrifugal pumping apparatus. No. 975,623; Nov. 15; Sp. p. 3436; Gaz. vol. 160; p. 583.

Jones, Drury A. (See Frink and Jones.)

Jones, Dudley C. (See Jones, Jacob M. and D. C.)

Jones, Eber A., Stillwater, Okla. Cane-stripper. No. 946,604; Jan. 18; Sp. p. 3562; Gaz. vol. 150; p. 599.

Jones, Edward, New York, assignor to Weinlander & Jackson, Brooklyn, N. Y. Die for covering tubes. No. 954,030; Apr. 5; Sp. p. 696; Gaz. vol. 153; p. 122.

Jones, Edward, Perry Barr, England, assignor to Kynoch Limited, Birmingham, England. Gas-producer. No. 969,375; Sept. 6; Sp. p. 488; Gaz. vol. 158; p. 77.

Jones, Edward F. (See Jones, Gerry, assignor.)

Jones, Edward R., Steubenville, Ohio. Article and bag securer. No. 978,594; Dec. 13; Sp. p. 2563; Gaz. vol. 161; p. 437.

Jones, Edward T. (See Bierce and Jones.)

Jones, Eli, Valley Springs, S. D. Nippers and pincers. No. 951,076; Mar. 1; Sp. p. 1238; Gaz. vol. 152; p. 203.

Jones, Ellis E., *et al.* (See De Forrest, Charles E., assignor.)

Jones, Ellis H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 956,361; Apr. 26; Sp. p. 5803; Gaz. vol. 153; p. 1008.

Jones, Ellis H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Indicator-lock. No. 963,712; July 5; Sp. p. 1505; Gaz. vol. 156; p. 234.

Jones, Ernest J., Baltimore, Md. Hame-fastener. No. 958,253; May 17; Sp. p. 3924; Gaz. vol. 154; p. 660.

Jones, Evan F., and C. A. Barnes, Chicago, Ill. Ash-box. No. 971,845; Oct. 4; Sp. p. 702; Gaz. vol. 159; p. 123.

Jones, Everett R., and W. A. Yockey, Spokane, Wash. Dumping-wagon. No. 973,277; Oct. 18; Sp. p. 3896; Gaz. vol. 159; p. 667.

Jones, Francis L., *et al.* (See Davis, William J., assignor.)

Jones, Frank G., Muskegon, Mich. Cable-terminal. No. 951,129; Mar. 8; Sp. p. 1353; Gaz. vol. 152; p. 246.

Jones, Frank S., Pasadena, Cal. Motor-cycle gearing. No. 971,756; Oct. 4; Sp. p. 519; Gaz. vol. 159; p. 90.

Jones, Fred A., *et al.* (See Larsson, Thure, assignor.)

Jones, Fred A., *et al.* (See Larsson and Smith, assignors.)

Jones, Fred E. R., and R. S. Barnum, Chicago, Ill.; said Barnum assignor to said Jones. Hospital-bed. No. 974,495; Nov. 1; Sp. p. 964; Gaz. vol. 160; p. 143.

Jones, Frederick G., East Lexington, Mass. Illuminated fountain. No. 947,241; Jan. 25; Sp. p. 4928; Gaz. vol. 150; p. 840.

Jones, Fremont L. (See Braun, William A., assignor.)

Jones, George C. (See Deschamp and Jones.)

Jones, George M. (See Kelly, John T., assignor.)

Jones, Gerry, assignor to E. F. Jones, Binghamton, N. Y. Corner-bracket for pitless wagon-scales. No. 971,757; Oct. 4; Sp. p. 521; Gaz. vol. 159; p. 91.

Jones, Gerry, assignor to E. F. Jones, Binghamton, N. Y. Reinforced-concrete pit for wagon-scales. No. 971,758; Oct. 4; Sp. p. 523; Gaz. vol. 159; p. 91.

Jones, Guy, Westplains, Mo. Fastener. No. 947,820; Feb. 1; Sp. p. 71; Gaz. vol. 151; p. 15.

Jones, Hannibal, *et al.* (See Nobis, Curtis A., assignor.)

Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 963,771; July 12; Sp. p. 1642; Gaz. vol. 156; p. 277.

Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Interlocking brake-shoe. No. 963,772; July 12; Sp. p. 1644; Gaz. vol. 156; p. 277.

Jones, Harry S., assignor of one-half to W. G. Jones, Chicago, Ill. Binder. No. 946,902; Jan. 18; Sp. p. 4267; Gaz. vol. 150; p. 701.

Jones, Harry W., assignor to American Can Company, New York, N. Y. Sifter-container. No. 973,116; Oct. 18; Sp. p. 3530; Gaz. vol. 159; p. 610.

Jones, Herbert F., Oconto, Wis. Pocket-igniter. No. 970,506; Sept. 20; Sp. p. 2903; Gaz. vol. 158; p. 507.

Jones, Horace K., Hartford, assignor to C. Glover, New Britain, Conn. Auxiliary coaster-brake attachment. No. 975,432; Nov. 15; Sp. p. 3028; Gaz. vol. 160; p. 516.

Jones, Hugh F., Los Angeles, Cal. Making steel castings out of steel-scrap. No. 967,780; Aug. 16; Sp. p. 4124; Gaz. vol. 157; p. 706.

Jones, Isaac, Topeka, Kans. Tug fastener and detacher. No. 964,648; July 19; Sp. p. 3529; Gaz. vol. 156; p. 603.

Jones, Iwan E. (See Tanner and Jones.)

Jones, Jacob M. and D. C., St. John, Ky. Collapsible box. No. 958,647; May 17; Sp. p. 4846; Gaz. vol. 154; p. 796.

Jones, James A., assignor of one-half to W. Quick, Ward, W. Va. Signaling system for railways. No. 974,800; Nov. 8; Sp. p. 1633; Gaz. vol. 160; p. 274.

Jones, James E., Lufkin, Tex. Drive gear-wheel. No. 963,153; July 5; Sp. p. 326; Gaz. vol. 156; p. 46.

Jones, James E., Syracuse, N. Y. Combined radiator and foot-warmer. No. 968,569; Aug. 30; Sp. p. 5824; Gaz. vol. 157; p. 1026.

Jones, James M., Buffalo, N. Y. Safety device for wood-shaping machines. No. 955,408; Apr. 19; Sp. p. 3706; Gaz. vol. 153; p. 651.

Jones, James M., Buffalo, N. Y. Safety-guard for stamping-machines. No. 976,181; Nov. 22; Sp. p. 4617; Gaz. vol. 160; p. 795.

Jones, James M., Buffalo, N. Y. Safety-guard for stamping-presses. No. 977,953; Dec. 6; Sp. p. 1145; Gaz. vol. 161; p. 185.

Jones, James P., Fabius, Ala. Plow. No. 963,579; July 5; Sp. p. 1244; Gaz. vol. 156; p. 190.

Jones, Jeremiah C., assignor of one-fourth to W. Broyles, Woodson, Tex. Stock-car. No. 974,068; Oct. 25; Sp. p. 5563; Gaz. vol. 159; p. 964.

Jones, John, Salem, Oregon, assignor of one-half to T. Sexton, San Francisco, Cal. Warehouse-truck-brake attachment. No. 974,572; Nov. 1; Sp. p. 1145; Gaz. vol. 160; p. 173.

Jones, John A., Cincinnati, Ohio. Tile. No. 968,162; Aug. 23; Sp. p. 4971; Gaz. vol. 157; p. 858.

Jones, John A., Cincinnati, Ohio. Reinforced-concrete column, girder, and beam. No. 976,182; Nov. 22; Sp. p. 4620; Gaz. vol. 160; p. 795.

Jones, John A., Cincinnati, Ohio. Reinforced-concrete floor-slab. No. 976,183; Nov. 22; Sp. p. 4622; Gaz. vol. 160; p. 796.

Jones, John B. (See Snyder, Odie R., assignor.)
Jones, John D., Walla Walla, assignor of one-half to H. P. Howard, Fort Walla Walla, Wash. Axle-box and dust-guard. No. 947,105; Jan. 18; Sp. p. 4646; Gaz. vol. 150; p. 766.
Jones, John E., New York, N. Y. Metallurgical furnace. No. 968,954; Aug. 30; Sp. p. 6640; Gaz. vol. 157; p. 1156.
Jones, John G., assignor to M. D. Knowlton Company, Rochester, N. Y. Frictional locking device. No. 974,156; Nov. 1; Sp. p. 98; Gaz. vol. 160; p. 20.
Jones, John G., assignor to M. D. Knowlton Company, Rochester, N. Y. Variable-speed power-transmitting mechanism. No. 975,869; Nov. 15; Sp. p. 3949; Gaz. vol. 160; p. 665.
Jones, John H., Farmington, Del. Marine table. No. 946,756; Jan. 18; Sp. p. 3897; Gaz. vol. 150; p. 649.
Jones, John M. (See Michel and Jones.)
Jones, John M., assignor to D. F. Jones, St. Louis, Mo. Reinforced-concrete floor construction. No. 953,091; Mar. 29; Sp. p. 5404; Gaz. vol. 152; p. 990.
Jones, John P., Summitville, Ind. Tongue for plows or cultivators. No. 947,158; Jan. 18; Sp. p. 4746; Gaz. vol. 150; p. 782.
Jones, John R., assignor to Jones Bros. Overall Company, Dubuque, Iowa. Nightgown. No. 956,102; Apr. 26; Sp. p. 5230; Gaz. vol. 153; p. 919.
Jones, John W., Roosevelt, Okla. Ventilating system. No. 968,854; Aug. 30; Sp. p. 6436; Gaz. vol. 157; p. 1122.
Jones, John W. S. and W. P., Birmingham, Ala. Couch or bed. No. 966,450; Aug. 9; Sp. p. 1277; Gaz. vol. 157; p. 230.
Jones, Joseph R., Port Arthur, Ontario, Canada. Telegraph sending-machine. No. 977,452; Dec. 6; Sp. p. 52; Gaz. vol. 161; p. 11.
Jones, Joseph W., New York, N. Y. Taximeter. No. 951,077; Mar. 1; Sp. p. 1239; Gaz. vol. 152; p. 204.
Jones, Joshua J. (See Mellin and Jones.)
Jones, Joshua J., Pittsburg, assignor of one-half to G. H. Blaxter, Beaver Falls, Pa. Piling. No. 976,573; Nov. 22; Sp. p. 5514; Gaz. vol. 160; p. 932.
Jones, Joshua W., Harrisburg, Pa. Coin-holder or change-maker. No. 958,648; May 17; Sp. p. 4847; Gaz. vol. 154; p. 796.
Jones, Laban E., Anaconda, Mont. Centrifugal separator. No. 946,444; Jan. 11; Sp. p. 3238; Gaz. vol. 150; p. 520.
Jones, Laban E., Anaconda, Mont. Electric collector for turn-tables. No. 977,653; Dec. 6; Sp. p. 528; Gaz. vol. 161; p. 80.
Jones, Louis W., Louisville, Ky. Boring-machine. No. 969,632; Sept. 6; Sp. p. 1023; Gaz. vol. 158; p. 164.
Jones, Ludford C., Baltimore, Md. Valve mechanism for liquids. No. 966,921; Aug. 9; Sp. p. 2363; Gaz. vol. 157; p. 387.
Jones, Madison C. (See Guthrie, Jones, Guthrie, and Hunt.)
Jones, Marion F., Detroit, Mich. Machinist's scale. No. 979,768; Dec. 27; Sp. p. 5083; Gaz. vol. 161; p. 885.
Jones, Marion S., Baltimore, Md. Separator. No. 960,947; June 7; Sp. p. 1410; Gaz. vol. 155; p. 238.
Jones, Milton. (See Beucler, Frederick P., assignor.)
Jones, Moses, Jr., Greenwich, N. J. Whip-socket. No. 973,941; Oct. 25; Sp. p. 5297; Gaz. vol. 159; p. 920.
Jones, Orville D. (See Patterson, Pearl J., assignor.)
Jones, Pearl N., Pittsburg, Pa. Equalizing truck-mounting for electric traction-cars. No. 953,910; Apr. 5; Sp. p. 449; Gaz. vol. 153; p. 82.
Jones, Pearl N., Pittsburg, Pa. Passenger-car. No. 962,224; June 21; Sp. p. 4159; Gaz. vol. 155; p. 722.
Jones, Pearl N., Pittsburg, Pa. Passenger-car. No. 962,225; June 21; Sp. p. 4160; Gaz. vol. 155; p. 722.
Jones, Pearl N., Pittsburg, Pa. Passenger-car. No. 964,269; July 12; Sp. p. 2696; Gaz. vol. 156; p. 445.
Jones, Pearl N., Pittsburg, Pa. Door-operating mechanism for passenger-cars. No. 966,335; Aug. 2; Sp. p. 1015; Gaz. vol. 157; p. 164.
Jones, Rachel, *et al.* (See Jackson, Thomas J., assignor.)
Jones, Ralph E., U. S. Army. Match-box. No. 948,884; Feb. 8; Sp. p. 2322; Gaz. vol. 151; p. 395.
Jones, Reuben, Chamblee, Ga. Plow-fender. No. 963,295; July 5; Sp. p. 672; Gaz. vol. 156; p. 95.
Jones, Richard E., Hagerstown, Md. Self-tightening twin latch for doors and the like. No. 973,049; Oct. 18; Sp. p. 3399; Gaz. vol. 159; p. 588.
Jones, Richard O., assignor, by mesne assignments, to The Computing Scale Company, Dayton, Ohio. Centrifugal pump. No. 955,168; Apr. 19; Sp. p. 3170; Gaz. vol. 153; p. 570.
Jones, Richard O., assignor, by mesne assignments, to The Computing Scale Company, Dayton, Ohio. Centrifugal pump. No. 957,682; May 10; Sp. p. 2511; Gaz. vol. 154; p. 434.
Jones, Robert T., assignor of one-third to W. W. and T. J. Handy, Beggs, Okla. Grapple. No. 967,130; Aug. 9; Sp. p. 2799; Gaz. vol. 157; p. 459.
Jones, Robert V., Kansas City, Mo., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. System of hot-water storage. No. 979,507; Dec. 27; Sp. p. 4501; Gaz. vol. 161; p. 795.
Jones, Robert W., Covington, Ky. Veneer-saw liner and jointer. No. 978,895; Dec. 20; Sp. p. 3162; Gaz. vol. 161; p. 562.
Jones, Samuel, Fremont, Ohio. Headlight-screen. No. 979,508; Dec. 27; Sp. p. 4505; Gaz. vol. 161; p. 795.
Jones, Theodore N., Denver, Colo., assignor of one-third to J. H. Hall, Hastings, Nebr. Drenching device. No. 969,482; Sept. 6; Sp. p. 697; Gaz. vol. 158; p. 110.
Jones, Theodore N., Boulder, Colo., assignor to The Powers Burglar Proof Sash Lock Company, Hastings, Nebr. Sash-lock. No. 970,507; Sept. 20; Sp. p. 2904; Gaz. vol. 158; p. 507.
Jones, Thomas, and L. J. Evans, Ynyscedwyn, Ystradgynlais, England. Emergency-brake. No. 974,390; Nov. 1; Sp. p. 696; Gaz. vol. 160; p. 106.
Jones, Thomas J., Trumbull county, Ohio. Nut-lock. No. 965,633; July 26; Sp. p. 5714; Gaz. vol. 156; p. 971.
Jones, Thomas M., and G. Seel, Oak Hill, Ohio. Flexible closure for cabinets, &c. No. 970,832; Sept. 20; Sp. p. 3646; Gaz. vol. 158; p. 622.
Jones, Walter. (See Browning, Alfred, assignor.)
Jones, Walter, White Castle, La. Conveyer-cleat. No. 972,698; Oct. 11; Sp. p. 2578; Gaz. vol. 159; p. 439.
Jones, Watt S., Baxter Springs, Kans. Motor attachment for vehicles. No. 967,931; Aug. 23; Sp. p. 4431; Gaz. vol. 157; p. 780.
Jones, Wiley W., Downs, Kans. Armor for tires. No. 955,169; Apr. 19; Sp. p. 3174; Gaz. vol. 153; p. 570.
Jones, William A., West New Brighton, N. Y. Explosion-engine. No. 972,869; Oct. 18; Sp. p. 2963; Gaz. vol. 159; p. 525.
Jones, William A., and W. A. Minehan, Sharon, Pa. Locomotive attachment. No. 975,870; Nov. 15; Sp. p. 3950; Gaz. vol. 160; p. 665.
Jones, William C., Baltimore, Md. Combined comb and brush. No. 967,781; Aug. 16; Sp. p. 4125; Gaz. vol. 157; p. 706.
Jones, William D., Greeley, Colo. Lamp-igniter. No. 970,715; Sept. 20; Sp. p. 3380; Gaz. vol. 158; p. 580.
Jones, William E. (See Christofferson, Woods, and Jones.)
Jones, William E., assignor to O. A. Purdey, Washington, D. C. Cotton-seed huller. No. 955,463; Apr. 19; Sp. p. 3814; Gaz. vol. 153; p. 670.
Jones, William G. (See Jones, Harry S., assignor.)
Jones, William M., and H. Stewart, San Francisco, Cal. Fastening for loops and the like. No. 962,086; June 21; Sp. p. 3857; Gaz. vol. 155; p. 675.
Jones, William S., Ossining, N. Y. Timer for automobiles. No. 974,069; Oct. 25; Sp. p. 5565; Gaz. vol. 159; p. 964.
Jones, William T., Hamilton, Ontario, Canada. Automatic oiler for wheels. No. 953,038; Mar. 29; Sp. p. 5272; Gaz. vol. 152; p. 971.
Jones, Willis H., Utica, N. Y. Trap-door for sidewalks. No. 951,280; Mar. 8; Sp. p. 1657; Gaz. vol. 152; p. 293.
Jones, Wilson P. (See Jones, John W. S. and W. P.)
Jones, Winfred E. (See Savard and Jones.)
Jonesku, Peter, Chicago, Ill. Ironing and pressing machine. No. 973,789; Oct. 25; Sp. p. 4982; Gaz. vol. 159; p. 866.
Jönköpings och Vulcans Tändsticksfabriksaktiebolag. (See Johansson, Karl A., assignor.)
Jönköpings och Vulcans Tändsticksfabriksaktiebolag. (See Olsson, Johan G., assignor.)
Jönköpings & Vulcans Tändsticksfabriksaktiebolag. (See Olsson, Gustaf, assignor.)
Jonsson, Gustaf E., Herrljunga, Sweden. Milking-machine. No. 965,193; July 26; Sp. p. 4727; Gaz. vol. 156; p. 819.
Jonsson, Gustaf E., Norrköping, Sweden. Milking-machine. No. 978,595; Dec. 13; Sp. p. 2565; Gaz. vol. 161; p. 437.
Joplin, William A., Lawrence, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Machine for lining boxes. No. 954,739; Apr. 12; Sp. p. 2260; Gaz. vol. 153; p. 392.
Joplin, William A., Lawrence, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton-sealing machine. No. 977,097; Nov. 29; Sp. p. 6672; Gaz. vol. 160; p. 1136.
Jordan Brothers. (See Jordan, William H., assignor.)
Jordan, Carl M. (See Jordan, Wallace P., assignor.)
Jordan Company, The. (See Jordan, James B., assignor.)
Jordan, Conrad F. (See Anderson, John N., assignor.)
Jordan, Cornelius, assignor to Jordan Machine Co., Cohoes, N. Y. Pipe-loading machine. No. 960,227; May 31; Sp. p. 8214; Gaz. vol. 154; p. 1383.
Jordan Demountable Rim Company. (See Jordan, Ruric W., assignor.)
Jordan, Forrest E. (See Martin, Brady, assignor.)
Jordan, Fred B., Winchester, assignor to Hotel Security Checking Company, Medford, Mass. Manifold-check device. No. 965,527; July 26; Sp. p. 5479; Gaz. vol. 156; p. 933.
Jordan, Frederick A., *et al.* (See Straight, George H., assignor.)
Jordan, George H., assignor of one-third to G. J. Alcott, Bridgewater, Mass. Heating-stove. No. 973,201; Oct. 18; Sp. p. 3754; Gaz. vol. 159; p. 641.
Jordan, J., *et al.* (See Straight, George H., assignor.)
Jordan, James B., Nashville, Tenn., assignor to The Jordan Company. Saliva-ejector. No. 951,130; Mar. 8; Sp. p. 1356; Gaz. vol. 152; p. 246.

Alphabetical list of patentees—Continued.

Jordan, James T., Dallas, Tex. Cement-block mold. No. 965,909; Aug. 2; Sp. p. 131; Gaz. vol. 157; p. 22.
Jordan, John, and A. Tyler, Auburn, R. I. Molder's flask. No. 951,495; Mar. 8; Sp. p. 2108; Gaz. vol. 152; p. 365.
Jordan, John M., Summit, Ga. Weather and cinder strip for box-car doors. No. 955,516; Apr. 19; Sp. p. 3927; Gaz. vol. 153; p. 689.
Jordan, John W., Jackson, Miss. Sweat-shirt. No. 962,900; June 28; Sp. p. 5598; Gaz. vol. 155; p. 980.
Jordan Machine Co. (See Jordan, Cornelius, assignor.)
Jordan, Oswald F., Chicago, Ill. Railway-spreader. No. 963,773; July 12; Sp. p. 1646; Gaz. vol. 156; p. 277.
Jordan, Robert A., trustee. (See Smith, John R., assignor.)
Jordan, Ruric W., assignor to Jordan Demountable Rim Company, Boston, Mass. Tire-fastener. No. 963,048; July 5; Sp. p. 44; Gaz. vol. 156; p. 9.
Jordan, Ulysses, and F. Carpenter, Indianapolis, Ind. Envelop-moistener. No. 950,178; Feb. 22; Sp. p. 5093; Gaz. vol. 151; p. 894.
Jordan, W. A., *et al.* (See Gager, Lee E., assignor.)
Jordan, Wallace P., assignor of one-half to C. M. Jordan, Norfolk, Va. Mooring-buoy. No. 970,339; Sept. 13; Sp. p. 2550; Gaz. vol. 158; p. 430.
Jordan, William A., assignor of one-half to O. W. Long, New Orleans, La. Sash-lock. No. 979,861; Dec. 27; Sp. p. 5303; Gaz. vol. 161; p. 917.
Jordan, William H., assignor to Jordan Brothers, New York, N. Y. Machine for grinding commutators of dynamos and motors. No. 969,633; Sept. 6; Sp. p. 1025; Gaz. vol. 158; p. 164.
Jordan, William W., assignor of one-half to N. V. Frost, Wynne Wood, Okla. Broom-corn-harvesting device. No. 964,522; July 19; Sp. p. 3245; Gaz. vol. 156; p. 559.
Jorden, Thomas J., and J. W. Pemberton, Laferty, Ohio. Feeder for car-hauls. No. 955,884; Apr. 26; Sp. p. 4768; Gaz. vol. 153; p. 844.
Jordon, Henry E., and D. A. Sullivan, New York, N. Y. Tool. No. 961,617; June 14; Sp. p. 2849; Gaz. vol. 155; p. 492.
Jorey, Charles H., Seymour, Conn. Paint-brush holder. No. 955,646; Apr. 19; Sp. p. 4229; Gaz. vol. 153; p. 733.
Jorgensen, Carl G., Chicago, Ill. Fishing apparatus. No. 952,812; Mar. 22; Sp. p. 4825; Gaz. vol. 152; p. 868.
Jörgensen, Julius C. W., San Francisco, Cal. Fluid speed-governing mechanism. No. 974,973; Nov. 8; Sp. p. 2049; Gaz. vol. 160; p. 334.
Jorgensen, Walter, assignor to G. Frisell, Stockholm, Sweden. Gage. No. 948,141; Feb. 1; Sp. p. 748; Gaz. vol. 151; p. 122.
Jorn, Albert, Jr., Waukegan, Ill. Sand-blast device. No. 977,453; Dec. 6; Sp. p. 54; Gaz. vol. 161; p. 11.
Joselin, Frank E., Toronto, Ontario, Canada. Combined bed and davenport. No. 961,138; June 14; Sp. p. 1807; Gaz. vol. 155; p. 328.
Joselin, Frank E., Toronto, Ontario, Canada. Bottle-closure. No. 970,234; Sept. 13; Sp. p. 2346; Gaz. vol. 158; p. 396.
Joseph, Carl. (See Neely, Herbert G., assignor.)
Joseph, Carl, Bayonne, N. J. Fastener. No. 947,489; Jan. 25; Sp. p. 5563; Gaz. vol. 150; p. 924.
Joseph, Carl, Bayonne, N. J. Fastener. No. 959,545; May 31; Sp. p. 6760; Gaz. vol. 154; p. 1150.
Joseph, Edward R., Elkhart, Ind. Electrical gas-lighting device. No. 966,690; Aug. 9; Sp. p. 1820; Gaz. vol. 157; p. 311.
Joseph, H. H., *et al.* (See Knoke, Herman A., assignor.)
Joseph H. Wallace & Company. (See Carlson, Carl P., assignor.)
Joseph, Louis L., Chicago, Ill. Tape-measure. No. 959,750; May 31; Sp. p. 7177; Gaz. vol. 154; p. 1218.
Joseph, M. B., *et al.* (See Knoke, Herman A., assignor.)
Joseph, William J., St. Paul, Minn. Hobby-horse. No. 967,641; Aug. 16; Sp. p. 3840; Gaz. vol. 157; p. 659.
Josleyn, Hubbard N., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 945,956; Jan. 11; Sp. p. 2118; Gaz. vol. 150; p. 353.
Josleyn, Hubbard N., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 976,882; Nov. 29; Sp. p. 6165; Gaz. vol. 160; p. 1062.
Joslin, Jerome C., Keene, N. H. Flask for building cement walls. No. 974,673; Nov. 1; Sp. p. 1349; Gaz. vol. 160; p. 209.
Joslin, William E. (See Joslin and Bennett, assignors.)
Joslin, William H., and M. H. Bennett, assignors to W. E. Joslin, Scituate, R. I. Lace-feeding device. No. 974,674; Nov. 1; Sp. p. 1350; Gaz. vol. 160; p. 209.
Joslin, William H., and M. H. Bennett, assignors to W. E. Joslin, Scituate, R. I. Lace-tipping machine. No. 979,168; Dec. 20; Sp. p. 3813; Gaz. vol. 161; p. 660.
Joss, George L., Monmouth, Ill. Air-distributing nozzle for air-lifts. No. 955,409; Apr. 19; Sp. p. 3707; Gaz. vol. 153; p. 652.
Jossart, John L., Minocqua, Wis. Spike. No. 974,391; Nov. 1; Sp. p. 698; Gaz. vol. 160; p. 106.
Josse, Emil, Berlin, and W. Gensecke, Charlottenburg, Germany. Apparatus for removing gases and vapors from surface condensers. No. 971,505; Sept. 27; Sp. p. 4965; Gaz. vol. 158; p. 869.
Jost, Estelle C., administratrix. (See Jost, John F. W.)
Jost, John F. W., deceased; E. C. Jost, Philadelphia, Pa., administratrix. Attachment to be used in connection with hose-couplings. No. 953,422; Mar. 29; Sp. p 6125; Gaz. vol. 152; p. 1100.
Journal Lubricator Company. (See Armstrong, Ernest, assignor.) (Reissue.)
Jowett, James, Bolton-le-Sands, England. Fuel. No. 964,523; July 19; Sp. p. 3246; Gaz. vol. 156; p. 560.
Joy, Charles L., New Haven, Conn. Cutlery-grinding machine. No. 961,864; June 21; Sp. p. 3388; Gaz. vol. 155; p. 599.
Joy, Guy A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Service-meter system. No. 976,184; Nov. 22; Sp. p. 4622; Gaz. vol. 160; p. 796.
Joy, Maynard T., New York, N. Y. Calculating device. No. 966,752; Aug. 9; Sp. p. 2000; Gaz. vol. 157; p. 333.
Joyce, George A., London, England. Wire-drawing die. No. 978,301; Dec. 13; Sp. p. 1923; Gaz. vol. 161; p. 336.
Joyce, George A., London, England. Die. No. 978,302; Dec. 13; Sp. p. 1925; Gaz. vol. 161; p. 336.
Joyce, Patrick H., Pittsburg, Pa. Sanitary beer-cooler. No. 964,270; July 12; Sp. p. 2699; Gaz. vol. 156; p. 445.
Joyce, William, *et al.* (See Simon, Henry, assignor.)
Joye, Thomas H., assignor of one-half to E. H. Hutchinson, Charleston, S. C. Journal-box-lid fastener. No. 946,227; Jan. 11; Sp. p. 2673; Gaz. vol. 150; p. 444.
Judd, Chauncey W., Los Angeles, Cal. Apparatus for separation of silver from fixing solutions. No. 951,372; Mar. 8; Sp. p. 1853; Gaz. vol. 152; p. 324.
Judd, Henry S., assignor to H. S. Judd Manufacturing Company, Chicago, Ill. Washing-machine. No. 962,510; June 28; Sp. p. 4791; Gaz. vol. 155; p. 844.
Judd, Wallace S. (See Avery and Judd.)
Judevine, Arthur, Baraboo, Wis. Tank or container. No. 965,634; July 26; Sp. p. 5716; Gaz. vol. 156; p. 972.
Judge, Arthur I., Baltimore, Md. Canning green corn. No. 970,058; Sept. 13; Sp. p. 1982; Gaz. vol. 158; p. 336.
Judge, Charles R., Chelmsford, Mass. Knot-tier. No. 952,528; Mar. 22; Sp. p. 4190; Gaz. vol. 152; p. 769.
Judge, Edward J., San Francisco, Cal. Washing vegetables and partially cooking the same. No. 957,466; May 10; Sp. p. 2075; Gaz. vol. 154; p. 360.
Judge, Edward J., San Francisco, Cal. Vegetable-washer. No. 958,812; May 24; Sp. p. 5211; Gaz. vol. 154; p. 879.
Judge, Emily S., Sandgate, England. Shirt. No. 966,336; Aug. 2; Sp. p. 1018; Gaz. vol. 157; p. 165.
Judge, Franklin. (See Quentell, William P., assignor.)
Judge, Thomas F., New York, N. Y. Fishing-rod. No. 967,642; Aug. 16; Sp. p. 3841; Gaz. vol. 167; p. 659.
Judson L. Thomson Manufacturing Company. (See Leach, John N., assignor.)
Judson L. Thomson M'fg Co. (See Havener, Arthur R., assignor.)
Judy, James F., *et al.* (See Hannah, William H., assignor.)
Judy, W. S. (See Bretz, George B., assignor.)
Judy, Walter I., McKeesport, Pa. Pressed-steel shovel. No. 946,369; Jan. 11; Sp. p. 3078; Gaz. vol. 150; p. 495.
Judy, Wesley S. (See Ohmart, Samuel M., assignor.)
Juin, Adolphe, Chicago, Ill., assignor to S. H. Veal, New York, N. Y. Frame for tents. No. 957,215; May 10; Sp. p. 1546; Gaz. vol. 154; p. 274.
Julich, Henry, Mount Hope, Wis. Wrench. No. 952,261; Mar. 15; Sp. p. 3626; Gaz. vol. 152; p. 651.
Julick, Henry H., Mount Hope, Wis. Rail-joint. No. 951,004; Mar. 1; Sp. p. 1118; Gaz. vol. 152; p. 181.
Julien, Herbert J. (See Stone, George W., Jr., assignor.)
Julien, Napoleon P., Worcester, Mass. Hydraulic elevator. No. 946,781; Jan. 18; Sp. p. 3952; Gaz. vol. 150; p. 657.
Julius Kayser & Company. (See Keeton, James, assignor.)
Julius, Paul, and E. Fussenegger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Yellow dye and making same. No. 955,080; Apr. 12; Sp. p. 2994; Gaz. vol. 153; p. 508.
Julius, Paul, V. Villiger, and P. Nawiasky, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Tetrachlor-indigo and making same. No. 955,410; Apr. 19; Sp. p. 3710; Gaz. vol. 153; p. 652.
Julius, Paul, V. Villiger, and P. Nawiasky, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Dichlor-dibrom-indigo and making same. No. 957,683; May 10; Sp. p. 2514; Gaz. vol. 154; p. 435.
Jump, Walter H., assignor of one-third to F. Beiter and one-third to J. Beiter, Carroll, Iowa. Grain-door. No. 971,617; Oct. 4; Sp. p. 235; Gaz. vol. 159; p. 41.
Juneau, Wilfred, Marksville, La. Running-gear for motor-vehicles. No. 977,407; Nov. 29; Sp. p. 7354; Gaz. vol. 160; p. 1244.
Jung, Alfred J. (See Russell and Jung.)
Junge, Herman, Cumberland, Ind. Non-swarming attachment for beehives. No. 965,910; Aug. 2; Sp. p. 133; Gaz. vol. 157; p. 22.
Jünger, August, Metz, Germany. Boiler-feeder. No. 964,916; July 19; Sp. p. 4186; Gaz. vol. 156; p. 697.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Governing mechanism for turbines. No. 953,272; Mar. 29; Sp. p. 5793; Gaz. vol. 152; p. 1048.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Packing for elastic-fluid-turbine shafts. No. 957,887; May 17; Sp. p. 2942; Gaz. vol. 154; p. 533.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. System of lubrication for elastic-fluid turbines. No. 963,154; July 5; Sp. p. 328; Gaz. vol. 156; p. 46.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Thrust-bearing. No. 963,155; July 5; Sp. p. 329; Gaz. vol. 156; p. 46.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Thrust-bearing. No. 963,296; July 5; Sp. p. 674; Gaz. vol. 156; p. 95.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Combined thrust and guide bearing. No. 974,392; Nov. 1; Sp. p. 699; Gaz. vol. 160; p. 106.

Junggren, Oscar, and F. W. Bentley, Schenectady, N. Y., assignors to General Electric Company. Centrifugal governor. No. 957,886; May 17; Sp. p. 2939; Gaz. vol. 154; p. 532.

Jungmann, Franz C., assignor of one-third to T. M. Merxen, Portland, Oreg. Music-leaf turner. No. 949,932; Feb. 22; Sp. p. 4534; Gaz. vol. 151; p. 809.

Junior Monarch Hay Press Co. (See Miller and Toffelmier.)

Junker, Charles, Greenleaf, Wis. Cheese-curd mill. No. 971,506; Sept. 27; Sp. p. 4966; Gaz. vol. 158; p. 869.

Junkers, Hugo, Aix-la-Chapelle, Germany. Gas cooking device with heat-regulator. No. 947,914; Feb. 1; Sp. p. 280; Gaz. vol. 151; p. 47.

Junkunc, John, Pocatello, Idaho. Lock. No. 948,280; Feb. 1; Sp. p. 1019; Gaz. vol. 151; p. 168.

Jupp, Henry, *et al.* (See Vandevort, Frank F., assignor.)

Jurgenson, Louis F., Grand Rapids, Minn. Paper-making machine. No. 977,654; Dec. 6; Sp. p. 531; Gaz. vol. 161; p. 80.

Just, Emma E. (See Ludington, Raymond, assignor.)

Just, Frederick A., Judson, N. D. Spark-arrester. No. 958,134; May 17; Sp. p. 3679; Gaz. vol. 154; p. 620.

Just, Max, F. H. Wittig, Werdau, and M. Seyferth, Crimmitschau, Germany. Attic-window. No. 968,480; Aug. 23; Sp. p. 5609; Gaz. vol. 157; p. 968.

Justus, Ocee, Clarksburg, W. Va. Hat-display holder. No. 954,678; Apr. 12; Sp. p. 2111; Gaz. vol. 153; p. 370.

Justus, Ocee, Clarksburg, W. Va. Automatic gas-drip. No. 974,889; Nov. 8; Sp. p. 1830; Gaz. vol. 160; p. 305.

Kabitzke, W., *et al.* (See Van Bosch, Peter M., assignor.)

Kabo Corset Company. (See Brown, Arnold V., assignor.)

Kabureck, George, Jersey City, N. J. Ventilator. No. 949,482; Feb. 15; Sp. p. 3570; Gaz. vol. 151; p. 622.

Kačer, Filip, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene compound and making same. No. 970,340; Sept. 13; Sp. p. 2551; Gaz. vol. 158; p. 430.

Kacha, Joseph A., Chicago, Ill. Feed mechanism for printing-presses. No. 946,049; Jan. 11; Sp. p. 2308; Gaz. vol. 150; p. 383.

Kacha, Joseph A., Chicago, Ill. Feed mechanism for printing-presses. No. 953,840; Apr. 5; Sp. p. 315; Gaz. vol. 153; p. 56.

Kachewski, Fredrich. (See Malensheck and Kachewski.)

Kadow, Otto F., Cleveland, Ohio. Water-meter. No. 958,408; May 17; Sp. p. 4381; Gaz. vol. 154; p. 716.

Kaelber, J. Geo. (See Garratt and McGivern, assignors.)

Kaempfer, Jacob C., New York, N. Y. False reed for looms. No. 977,313; Nov. 29; Sp. p. 7117; Gaz. vol. 160; p. 1211.

Kahl, George A., Plainsberg, Cal. Building-block. No. 960,948; June 7; Sp. p. 1412; Gaz. vol. 155; p. 238.

Kahn, Adolph, Pittsburg, Pa. Fruit-jar wrench. No. 953,467; Mar. 29; Sp. p. 6217; Gaz. vol. 152; p. 1115.

Kahn, Albert. (See Bates, Arthur C., assignor.)

Kahn, Alexander L., New York, N. Y. Ribbon-clip. No. 958,877; May 24; Sp. p. 5381; Gaz. vol. 154; p. 902.

Kahn, Clara, New York, N. Y. Collar. No. 976,658; Nov. 22; Sp. p. 5686; Gaz. vol. 160; p. 962.

Kahn, Edgar E., New York, N. Y. Means for securing jewels or ornaments to studs. No. 960,647; June 7; Sp. p. 838; Gaz. vol. 155; p. 137.

Kahn, Frank G. (See Macintosh, Richard E., assignor.)

Kahn, Julius, assignor to Trussed Concrete Steel Company, Detroit, Mich. Building construction. No. 948,395; Feb. 8; Sp. p. 1297; Gaz. vol. 151; p. 233.

Kahn, Julius, assignor to Trussed Concrete Steel Company, Detroit, Mich. Floor construction. No. 961,722; June 14; Sp. p. 3044; Gaz. vol. 155; p. 528.

Kahn, Lazar, Shreveport, La. Humidor. No. 953,841; Apr. 5; Sp. p. 321; Gaz. vol. 153; p. 57.

Kahn, Myrtil, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown dye. No. 946,050; Jan. 11; Sp. p. 2310; Gaz. vol. 150; p. 384.

Kahn, Myrtil, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown dye. No. 946,051; Jan. 11; Sp. p. 2311; Gaz. vol. 150; p. 384.

Kahn, Myrtil, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown coloring-matter. No. 946,052; Jan. 11; Sp. p. 2312; Gaz. vol. 150; p. 384.

Kahn, Myrtil, and A. Ossenbeck, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 964,786; July 19; Sp. p. 3923; Gaz. vol. 156; p. 652.

Kahn, Nathan E., Woodbine, N. J. Device for waxing yarn. No. 960,335; June 7; Sp. p. 199; Gaz. vol. 155; p. 34.

Kahre, William, Wharton, N. J. Dobby for looms. No. 971,846; Oct. 4; Sp. p. 703; Gaz. vol. 159; p. 124.

Kahrs, Christen H., Christiania, Norway. Fishing-net. No. 972,383; Oct. 11; Sp. p. 1878; Gaz. vol. 159; p. 329.

Kaighn, James B., Philadelphia, Pa. Prepayment mechanism. No. 957,684; May 10; Sp. p. 2515; Gaz. vol. 154; p. 435.

Kailey, Albert F., Arapahoe, Nebr. Hoof-knife. No. 948,861; Feb. 8; Sp. p. 2282; Gaz. vol. 151; p. 388.

Kaiser, Charles, Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil. No. 972,624; Oct. 11; Sp. p. 2437; Gaz. vol. 159; p. 415.

Kaiser, Charles A., assignor of one-third to F. N. Davison, New York, N. Y., and one-third to H. H. Hirsch, Philadelphia, Pa. Pump. No. 974,974; Nov. 8; Sp. p. 2052; Gaz. vol. 160; p. 335.

Kaiser, Charles W., assignor of one-half to J. L. Mandeville, Newark, N. J. Acetylene-gas container. No. 980,158; Dec. 27; Sp. p. 5947; Gaz. vol. 161; p. 1015.

Kaiser, Henry, *et al.* (See Sturges, Varney K., assignor.)

Kaiser, Lipman. (See Cunnius, Alfred R., assignor.)

Kaiser, Louis A., U. S. Navy. Speed-indicator. No. 955,081; Apr. 12; Sp. p. 2994; Gaz. vol. 153; p. 508.

Kaiser, Oliver B., Madisonville, assignor of one-third to W. S. Ludlow and one-third to W. S. Ludlow, Jr., Cincinnati, Ohio. Alarm system. No. 948,055; Feb. 1; Sp. p. 575; Gaz. vol. 151; p. 92.

Kaiserlik, John A., Stewartville, Minn. Hog-gambrel. No. 957,344; May 10; Sp. p. 1835; Gaz. vol. 154; p. 320.

Kaiserman, Achille, Rochelle, Ill. Shade-roller. No. 953,842; Apr. 5; Sp. p. 322; Gaz. vol. 153; p. 57.

Kaiserman, Achille, Kankakee, Ill. Alarm-clock. No. 964,271; July 12; Sp. p. 2700; Gaz. vol. 156; p. 446.

Kaiserman, Achille, Kankakee, Ill. Nurling-tool. No. 964,272; July 12; Sp. p. 2704; Gaz. vol. 156; p. 446.

Kaisling, William, assignor to F. B. Cook, Chicago, Ill. Substation protector unit. No. 955,806; Apr. 19; Sp. p. 4552; Gaz. vol. 153; p. 787.

Kaisling, William, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone set. No. 958,925; May 24; Sp. p. 5480; Gaz. vol. 154; p. 919.

Kaisling, William, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Switch-movement. No. 959,944; May 31; Sp. p. 7623; Gaz. vol. 154; p. 1286.

Kaisling, William, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Switch. No. 975,529; Nov. 15; Sp. p. 3235; Gaz. vol. 160; p. 551.

Kaisling, William, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Switch. No. 975,530; Nov. 15; Sp. p. 3242; Gaz. vol. 160; p. 551.

Kajiura, Juzo, Tokyo, Japan. Electric telegraphy. No. 977,879; Dec. 6; Sp. p. 998; Gaz. vol. 161; p. 157.

Kalamazoo Loose Leaf Binder Company. (See Impey, Francis L., assignor.)

Kalamazoo Loose Leaf Binder Company. (See Wigginton and Hodges, assignors.)

Kalb, Albert G., Chicago, Ill., assignor to Natural Dry Products Company, Augusta, Me. Condensing fluid substances. No. 957,685; May 10; Sp. p. 2517; Gaz. vol. 154; p. 435.

Kalb, Albert G., Chicago, Ill., assignor to Natural Dry Products Company, Augusta, Me. Condensing fluid substances. No. 957,686; May 10; Sp. p. 2519; Gaz. vol. 154; p. 435.

Kalb, Albert G., Chicago, Ill., assignor to Natural Dry Products Company, Augusta, Me. Desiccating fluid substances. No. 957,849; May 10; Sp. p. 2849; Gaz. vol. 154; p. 488.

Kalb, Albert G., Chicago, Ill., assignor to Natural Dry Products Company, Augusta, Me. Desiccating fluid substances. No. 957,850; May 10; Sp. p. 2853; Gaz. vol. 154; p. 489.

Kalck, Frederick R., *et al.* (See Hanlon, George W., assignor.)

Kaldenbach, John W., Seat Pleasant, Md. Wheelwright-machine. No. 978,166; Dec. 13; Sp. p. 1626; Gaz. vol. 161; p. 287.

Kaldrider, William H., Heaters, W. Va. Brake-hanger. No. 969,704; Sept. 6; Sp. p. 1162; Gaz. vol. 158; p. 188.

Kaldrider, William H., Heaters, W. Va. Brake-shoe. No. 969,705; Sept. 6; Sp. p. 1164; Gaz. vol. 158; p. 189.

Kales, William R., assignor to The Whitehead and Kales Iron Works, Detroit, Mich. Gin-pole. No. 957,216; May 10; Sp. p. 1548; Gaz. vol. 154; p. 274.

Kalgren, John E., assignor to The J. R. Clark Company, Minneapolis, Minn. Sleeve-board attachment for ironing-boards. No. 965,635; July 26; Sp. p. 5718; Gaz. vol. 156; p. 972.

Kalish, J. Robert. (See Fessler, Weaver F., assignor.)

Alphabetical list of patentees—Continued.

Kalle and Company Aktiengesellschaft. (See Deycke, Georg, assignor.)
Kalle & Company, Aktiengesellschaft. (See Elbel, Karl, assignor.)
Kallis, Isidore S., and J. Berg, New York, N. Y. Trunk. No. 948,732; Feb. 8; Sp. p. 2019; Gaz. vol. 151; p. 346.
Kallis, Isidore S., and J. Berg, New York, N. Y., assignors, by mesne assignments, to L. B. Gleason, Delhi, Del. Trunk. No. 966,451; Aug. 9; Sp. p. 1279; Gaz. vol. 157; p. 230.
Kallmeyer, Frederick G. (See Tilmes and Kallmeyer.)
Kaltenbach, Frank, assignor of one-half to E. F. Brandon, Edon, Ohio. Non-skidding device and climber for automobiles. No. 952,813; Mar. 22; Sp. p. 4827; Gaz. vol. 152; p. 868.
Kalvig, Lewis J., Britt, Iowa. Cement-block-molding machine. No. 967,020; Aug. 9; Sp. p. 2566; Gaz. vol. 157; p. 421.
Kamenstein, Myer, New York, N. Y. Sheet-metal box. No. 956,362; Apr. 26; Sp. p. 5805; Gaz. vol. 153; p. 1009.
Kamenstein, Myer, New York, N. Y. Handle-making machine. No. 970,059; Sept. 13; Sp. p. 1983; Gaz. vol. 158; p. 336.
Kaminski, John, Hilliards, Mich. Farm-wagon bracket. No. 972,082; Oct. 4; Sp. p. 1234; Gaz. vol. 159; p. 209.
Kaminsky, Bennett, assignor of one-half to J. M. Kaminsky, Indianapolis, Ind. Drinking-fountain. No. 955,966; Apr. 26; Sp. p. 4938; Gaz. vol. 153; p. 873.
Kaminsky, Julius M. (See Kaminsky, Bennett, assignor.)
Kaminsky, Julius M., Indianapolis, Ind. Drinking-fountain. No. 976,372; Nov. 22; Sp. p. 5069; Gaz. vol. 160; p. 861.
Kamm, Paul, Chicago, Ill. Sign. No. 960,336; June 7; Sp. p. 201; Gaz. vol. 155; p. 34.
Kammerer, Jacob, New York, N. Y. Weather-strip. No. 968,163; Aug. 23; Sp. p. 4972; Gaz. vol. 157; p. 858.
Kammerer, William C., St. Louis, Mo. Insulation-slab. No. 979,310; Dec. 20; Sp. p. 4107; Gaz. vol. 161; p. 707.
Kampfe Bros. (See Kampfe, Otto, assignor.)
Kampfe, Otto, New York, N. Y. Hand-rake. No. 975,871; Nov. 15; Sp. p. 3452; Gaz. vol. 160; p. 666.
Kampfe, Otto, New York, N. Y. Garment-clasp. No. 976,574; Nov. 22; Sp. p. 5515; Gaz. vol. 160; p. 932.
Kampfe, Otto, New York, N. Y. Safety-razor. No. 977,314; Nov. 29; Sp. p. 7118; Gaz. vol. 160; p. 1211.
Kampfe, Otto, New York, N. Y., assignor to Kampfe Bros. Safety-razor blade. No. 978,303; Dec. 13; Sp. p. 1926; Gaz. vol. 161; p. 336.
Kamrath, Charles, North Milwaukee, Wis. Adjustable horse. No. 970,508; Sept. 20; Sp. p. 2906; Gaz. vol. 158; p. 508.
Kamuf, Peter J., St. Louis, assignor of one-half to W. H. Davis, Wellston Station, St. Louis, Mo. Door-closing spring. No. 947,077; Jan. 18; Sp. p. 4592; Gaz. vol. 150; p. 758.
Kanabay, Joseph, Elkhart, Ind. Folding perambulator. No. 960,337; June 7; Sp. p. 202; Gaz. vol. 155; p. 35.
Kandlbinder, Emelia F., Shreveport, La. Hat-hanger. No. 964,163; July 12; Sp. p. 2486; Gaz. vol. 156; p. 408.
Kandlbinder, Emelia F., Shreveport, La. Sack-holder. No. 972,870; Oct. 18; Sp. p. 2965; Gaz. vol. 159; p. 525.
Kandlbinder, Sylvester N., Shreveport, La. Syrup-pitcher. No. 955,170; Apr. 19; Sp. p. 3175; Gaz. vol. 153; p. 570.
Kando, Kalman von, Vado Ligure, Italy, assignor to G. Westinghouse, Pittsburg, Pa. Supporting device for trolley-wires of electric railways. No. 946,135; Jan. 11; Sp. p. 2466; Gaz. vol. 150; p. 412.
Kando, Kalman von, Vado Ligure, Italy, assignor to G. Westinghouse. Overhead-trolley system. No. 946,549; Jan. 18; Sp. p. 3461; Gaz. vol. 150; p. 582.
Kane, Frank, Tacony, Pa. Diaphragm for talking-machines. No. 960,021; May 31; Sp. p. 7815; Gaz. vol. 154; p. 1313.
Kane, Frank, Philadelphia, Pa. Talking-machine horn and bracket therefor. No. 975,362; Nov. 8; Sp. p. 2879; Gaz. vol. 160; p. 465.
Kane, John, assignor to Rhodes Bros., Philadelphia, Pa. Radiator. No. 954,971; Apr. 12; Sp. p. 2795; Gaz. vol. 153; p. 473.
Kane, Mayer M., Chicago, Ill. Ironing-board. No. 951,247; Mar. 8; Sp. p. 1576; Gaz. vol. 152; p. 283.
Kane, Melvin H., and J. N. Crabb, Indianapolis, Ind.; said Kane assignor to said Crabb. Game apparatus. No. 964,473; July 12; Sp. p. 3101; Gaz. vol. 156; p. 509.
Kane, Patrick H., Buffalo, N. Y. Blowing-engine. No. 960,556; June 7; Sp. p. 650; Gaz. vol. 155; p. 106.
Kane, Peter W., Detroit, Mich. Engine. No. 976,808; Nov. 22; Sp. p. 5984; Gaz. vol. 160; p. 1011.
Kane, Thomas H. (See Nicholas, Kane, MacRae, and Gano.)
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Expanding-machine. No. 949,483; Feb. 15; Sp. p. 3571; Gaz. vol. 151; p. 623.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Bending-machine. No. 957,609; May 10; Sp. p. 2348; Gaz. vol. 154; p. 409.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Ribbing and expanding machine. No. 968,361; Aug. 23; Sp. p. 5379; Gaz. vol. 157; p. 928.
Kane, William L., assignor of one-half to D. Hewitt, Chicago, Ill. Window-screen. No. 963,373; July 5; Sp. p. 818; Gaz. vol. 156; p. 121.
Kangas, John, Gardner, Mass. Driving-train for time-pieces. No. 975,959; Nov. 15; Sp. p. 4125; Gaz. vol. 160; p. 697.
Kanner, Samuel. (See Benedict, Charles F., assignor.)
Kansas City Scale & Supply Company. (See Sherwood, Harry B., assignor.)
Kansas Voting Machine Company, The. (See Currey, Charles F., assignor.)
Kantner Company. (See Berkebile, Robert F., assignor.)
Kantner, Lewis R., Hasbrouck Heights, N. J., assignor of one-third to M. L. Mitchell, Williamsport, Pa. Printing. No. 974,278; Nov. 1; Sp. p. 449; Gaz. vol. 160; p. 66.
Kantor, Louis, Dayton, Ohio. Elevator. No. 948,175; Feb. 1; Sp. p. 802; Gaz. vol. 151; p. 133.
Kanzer-Chegodard, Gregory T., Kamenka, Russia. Automatic telegraphy. No. 974,279; Nov. 1; Sp. p. 450; Gaz. vol. 160; p. 66.
Kapferer, Marcel, assignor to Société Anonyme "Astra", Billancourt, France. Device for feeding ballonnets on airships. No. 958,926; May 24; Sp. p. 5482; Gaz. vol. 154; p. 919.
Kapff, Sigmund v., Aachen, Germany. Cellulose formate. No. 953,677; Mar. 29; Sp. p. 6671; Gaz. vol.152; p. 1188.
Kapff, Sigmund von, Aachen, Germany. Cellulose formate. No. 955,082; Apr. 12; Sp. p. 2997; Gaz. vol. 153; p. 508.
Kapka, Carl J., Kansas City, Kans. Awning. No. 963,713; July 5; Sp. p. 1507; Gaz. vol. 156; p. 234.
Kapka, Carl J., Kansas City, Kans. Awning. No. 963,714; July 5; Sp. p. 1510; Gaz. vol. 156; p. 235.
Kaplan, Samuel, and E. Batault, Geneva, Switzerland. Speculum and spatula. No. 949,236; Feb. 15; Sp. p. 3049; Gaz. vol. 151; p. 539.
Kapp, John O., Cincinnati, Ohio. Convertible cane and stool. No. 980,159; Dec. 27; Sp. p. 5949; Gaz. vol. 161; p. 1015.
Kappele, Henry, Stamford, Conn. Bracket for freight-car doors. No. 949,484; Feb. 15; Sp. p. 3573; Gaz. vol. 151; p. 623.
Kappenberg, Adolph, New York, N. Y. Feed-bag. No. 962,708; June 28; Sp. p. 5224; Gaz. vol. 155; p. 912.
Kappler, John G., and J. Gaines, Giddings, Tex. Cotton-oil-mill seed-huller. No. 948,508; Feb. 8; Sp. p. 1536; Gaz. vol. 151; p. 271.
Kapus, Edward F., St. Joseph, Mo. Acetylene-gas machine. No. 979,509; Dec. 27; Sp. p. 4506; Gaz. vol. 161; p. 795.
Karapetoff, Vladimir, Ithaca, N. Y. Maximum-demand meter. No. 972,538; Oct. 11; Sp. p. 2228; Gaz. vol. 159; p. 385.
Karay, Dessö, St. Louis, Mo. Sewing-cabinet. No. 949,485; Feb. 15; Sp. p. 3574; Gaz. vol. 151; p. 623.
Karažej, Eugen, and A. Regal, Banjaluka, Austria-Hungary. Machine for the production of mosaic pictures. No. 949,902; Feb. 22; Sp. p. 4471; Gaz. vol. 151; p. 799.
Karber, Ezra E., Karbers Ridge, Ill. Sliding bolt. No. 976,265; Nov. 22; Sp. p. 4844; Gaz. vol. 160; p. 827.
Karbiner, Jakob, Chicago, Ill. Folding table-base. No. 965,194; July 26; Sp. p. 4731; Gaz. vol. 156; p. 819.
Karch, Joseph P. (See Guthrie and Karch.)
Kardos, Desider. (See Szakáll and Kardos.)
Karg, Albert E., *et al.* (See Carpenter, Alexander, assignor.)
Kargus, William C., *et al.* (See Rasmussen, Clara H., assignor.)
Karhu, John, Calumet, Mich. Automatic dump-car. No. 962,356; June 21; Sp. p. 4442; Gaz. vol. 155; p. 766.
Karl, John. (See Mielck and Heydebrand, assignors.)
Karlson, Henry C., Hasbrouck Heights, N. J. Pocket cigarette-making device. No. 977,954; Dec. 6; Sp. p. 1148; Gaz. vol. 161; p. 185.
Karlson, Selma, Chicago, Ill. Trash receptacle and crematory. No. 969,879; Sept. 13; Sp. p. 1595; Gaz. vol. 158; p. 274.
Karmann, Joseph, Jr., Stanton, Nebr. Band-cutter. No. 970,624; Sept. 20; Sp. p. 3194; Gaz. vol. 158; p. 549.
Karnatz, Charles, Chicago, Ill. Fertilizer-distributer. No. 964,787; July 19; Sp. p. 3924; Gaz. vol. 156; p. 652.
Karnatz, Henry, Menomonie, Wis. Rubber attachment. No. 978,304; Dec. 13; Sp. p. 1927; Gaz. vol. 161; p. 336.
Karnes, Stephen F., *et al.* (See Jackson, Thomas J., assignor.)
Karnopp, Charles J., Chicago, Ill. Water-heater. No. 967,523; Aug. 16; Sp. p. 3615; Gaz. vol. 157; p. 620.
Karns, John P., assignor to J. P. Karns Tunneling Machine Co., Boulder, Colo. Tunneling-machine structure. No. 957,687; May 10; Sp. p. 2521; Gaz. vol. 154; p. 436.
Karns, John P., assignor to J. P. Karns Tunneling Machine Co., Boulder, Colo. Cutter-head for tunneling-machines. No. 977,955; Dec. 6; Sp. p. 1152; Gaz. vol. 161; p. 185.
Karp, Samuel, New York, N. Y. Sleeve for garments. No. 948,142; Feb. 1; Sp. p. 750; Gaz. vol. 151; p. 123.

Alphabetical list of patentees—Continued.

Karp, Samuel, New York, N. Y. Garment-sleeve. No. 971,539; Oct. 4; Sp. p. 58; Gaz. vol. 159; p. 13.
Karpen & Brothers, S. (See Thorbjornsen, Paul, assignor.)
Karpen, Henry C., Brooklyn, N. Y. Shoe-heel. No. 978,896; Dec. 20; Sp. p. 3164; Gaz. vol. 161; p. 562.
Karpen, Solomon, Chicago, Ill. Sofa-bed. No. 949,374; Feb. 15; Sp. p. 3354; Gaz. vol. 151; p. 587.
Karpen, Solomon, Chicago, Ill. Sofa-bed. No. 950,137; Feb. 22; Sp. p. 5005; Gaz. vol. 151; p. 880.
Karpen, Solomon, Chicago, Ill. Sofa-bed. No. 950,925; Mar. 1; Sp. p. 964; Gaz. vol. 152; p. 155.
Karpen, Solomon, Chicago, Ill. Sofa-bed. No. 951,531; Mar. 8; Sp. p. 2177; Gaz. vol. 152; p. 378.
Karpen, Solomon, Chicago, Ill., assignor to Geneva Furniture Manufacturing Company, Geneva, N. Y. Sofa-bed. No. 948,396; Feb. 8; Sp. p. 1298; Gaz. vol. 151; p. 233.
Karpen, Solomon, assignor to S. Karpen & Bros., Chicago, Ill. Sofa-bed. No. 956,972; May 3; Sp. p. 1035; Gaz. vol. 154; p. 162.
Karpenstein, Henry C., New York, N. Y. Massage apparatus. No. 962,901; June 28; Sp. p. 5599; Gaz. vol. 155; p. 980.
Karr, Burton A., assignor to Aero Plunge Co., Seattle, Wash. Amusement apparatus. No. 952,673; Mar. 22; Sp. p. 4517; Gaz. vol. 152; p. 821.
Karr, Jacob N., St. Louis, Mo. Vending-machine. No. 945,126; Jan. 4; Sp. p. 241; Gaz. vol. 150; p. 42.
Karr, John W., and B. F. Potter, Drexel, Mo. Harrow attachment. No. 946,675; Jan. 18; Sp. p. 3718; Gaz. vol. 150; p. 622.
Karsitz, Frank, assignor of one-half to W. Ehous, Bridgeport, Conn. Window operating and locking mechanism. No. 976,575; Nov. 22; Sp. p. 5516; Gaz. vol. 160; p. 932.
Karst, Peter J., Minneapolis, Minn. Broom with detachable handle. No. 949,577; Feb. 15; Sp. p. 3767; Gaz. vol. 151; p. 655.
Kasanof, Maurice M., New York, N. Y. Sign. No. 976,576; Nov. 22; Sp. p. 5520; Gaz. vol. 160; p. 933.
Kaspar, August, Shiner, Tex. Wire-twisting implement. No. 978,028; Dec. 6; Sp. p. 1303; Gaz. vol. 161; p. 209.
Kasparson, Axel B., Worcester, Mass. Machine for making heddles. No. 951,248; Mar. 8; Sp. p. 1578; Gaz. vol. 152; p. 283.
Kasralowicz, Ely, New York, N. Y. Apparel apparatus. No. 967,131; Aug. 9; Sp. p. 2800; Gaz. vol. 157; p. 460.
Kasralowicz, Ely, New York, N. Y. Making garment-forms. No. 967,132; Aug. 9; Sp. p. 2802; Gaz. vol. 157; p. 460.
Kass, Cyrus, Galesville, Wis. Pipe-grapple. No. 975,250; Nov. 8; Sp. p. 2655; Gaz. vol. 160; p. 429.
Kasseker, Johann, assignor to Schmidt, Kasseker & Co., Altwasser, Germany. Ink for ceramic transfer-pictures. No. 971,280; Sept. 27; Sp. p. 4553; Gaz. vol. 158; p. 796.
Kässmodel, Max F., Leipzig, Germany. Treating cacao-seeds to separate unripe from ripe seeds. No. 974,393; Nov. 1; Sp. p. 704; Gaz. vol. 160; p. 107.
Kassulker, William P., New Germany, Minn. Reel for barb-wire. No. 974,070; Oct. 25; Sp. p. 5566; Gaz. vol. 159; p. 964.
Kast, Emil A., Brush, Colo. Buggy-evener. No. 956,973; May 3; Sp. p. 1037; Gaz. vol. 154; p. 163.
Kast, Leonard L. (See Brown and Kast.)
Kather, Konrad, San Francisco, and G. F. Schild, Vallejo, Cal. Vacuum-bottle. No. 966,216; Aug. 2; Sp. p. 806; Gaz. vol. 157; p. 127.
Katt, Diedrich, Oaklawn, Ill. Cultivator-shovel. No. 962,434; June 28; Sp. p. 4630; Gaz. vol. 155; p. 818.
Katterheinrich, William W., New Knoxville, Ohio. Cigar-holder for hats. No. 954,740; Apr. 12; Sp. p. 2267; Gaz. vol. 153; p. 393.
Katterjohn, William W., Henderson, Ky. Flying toy. No. 951,686; Mar. 8; Sp. p. 2475; Gaz. vol. 152; p. 429.
Katzenberger, Oscar, Chicago, Ill. Vaginal syringe. No. 949,539; Feb. 15; Sp. p. 3693; Gaz. vol. 151; p. 642.
Katzenmeyer, John A., Ellwood City, Pa. Adjustable die-head. No. 949,278; Feb. 15; Sp. p. 3137; Gaz. vol. 151; p. 553.
Katzenstein, Leopold, New York, N. Y. Packing. No. 945,039; Jan. 4; Sp. p. 65; Gaz. vol. 150; p. 12.
Katzenstein, Leopold, New York, N. Y. Packing. No. 966,922; Aug. 9; Sp. p. 2364; Gaz. vol. 157; p. 387.
Katzer, Edward W. (See Martin and Katzer.)
Katzinger, Edward, Chicago, Ill. Furnace. No. 972,112; Oct. 4; Sp. p. 1292; Gaz. vol. 159; p. 218.
Katzinger, Edward, Chicago, Ill. Dies for making pans. No. 972,113; Oct. 4; Sp. p. 1295; Gaz. vol. 159; p. 219.
Katzinger, Edward, Chicago, Ill. Furnace. No. 975,531; Nov. 15; Sp. p. 3251; Gaz. vol. 160; p. 552.
Kaucher, Richard W., assignor to H. D. Taylor, Reading, Pa. Valve-operating gear. No. 977,880; Dec. 6; Sp. p. 1000; Gaz. vol. 161; p. 157.
Kauffman, D. L. (See Hitt, Marcellus M., assignor.)
Kauffmann, Lou B., assignor of one-half to W. S. Salway, New York, N. Y. Lunch-platter. No. 956,858; May 3; Sp. p. 783; Gaz. vol. 154; p. 124.
Kauffmann, Nathan, Paris, France. Shirt-collar. No. 949,237; Feb. 15; Sp. p. 3051; Gaz. vol. 151; p. 540.
Kaufman, Adolph G., assignor to American Callaphone Company, New York, N. Y. Sound-horn. No. 962,574; June 28; Sp. p. 4950; Gaz. vol. 155; p. 867.
Kaufman, Charles, Chicago, Ill. Coat-collar. No. 956,710; May 3; Sp. p. 457; Gaz. vol. 154; p. 73.
Kaufman, Christian W., Shenandoah, Pa. Automatic switch. No. 961,413; June 14; Sp. p. 2399; Gaz. vol. 155; p. 424.
Kaufman, Edward J. (See Lingo and Kaufman.)
Kaufman, Frank, assignor to W. Goodrow, Chicago, Ill. Machine for making paper wrappers. No. 973,202; Oct. 18; Sp. p. 3755; Gaz. vol. 159; p. 641.
Kaufman, Isaac J. (See Epstein and Lubinsky, assignors.)
Kaufman, Ludwig, assignor of one-half to J. Murray, New York, N. Y. Hollow water-heating grate. No. 976,080; Nov. 15; Sp. p. 4347; Gaz. vol. 160; p. 738.
Kaufman, Otto, assignor to Block Light Company, Youngstown, Ohio. Making mantles for incandescent gas-lamps. No. 975,769; Nov. 15; Sp. p. 3746; Gaz. vol. 160; p. 631.
Kaufman, Samuel, New York, N. Y. Cutting-stick for printing-presses. No. 954,679; Apr. 12; Sp. p. 2113; Gaz. vol. 153; p. 370.
Kaufmann, Albert, *et al.* (See Holt, Robert J., assignor.)
Kaufmann, Alphonse G., New York, N. Y. Receptacle for carrying and displaying cigars. No. 958,878; May 24; Sp. p. 5383; Gaz. vol. 154; p. 902.
Kaufmann, Charles, and W. H. Thomas, Oshkosh, Wis. Hose-supporter. No. 974,071; Oct. 25; Sp. p. 5568; Gaz. vol. 159; p. 965.
Kaufmann, Charles W., New York, N. Y. Attachment for cameras. No. 962,844; June 28; Sp. p. 5489; Gaz. vol. 155; p. 960.
Kaufmann, Emanuel, *et al.* (See Holt, Robert J., assignor.)
Kaufmann, Jacob. (See Fehr and Kaufmann.)
Kaufmann, John W., Baltimore, Md. Receptacle for liquids. No. 962,641; June 28; Sp. p. 5080; Gaz. vol. 155; p. 888.
Kaulhausen, William. (See Janclaes and Kaulhausen.)
Kaull, Burt J., assignor to Indiana Picker & Husker Company, La Fayette, Ind. Corn-picker. No. 958,649; May 17; Sp. p. 4849; Gaz. vol. 154; p. 796.
Kautz, George, Sr., assignor to H. M. Kautz, Albany, N. Y. Front gear for wagons. No. 971,507; Sept. 27; Sp. p. 4968; Gaz. vol. 158; p. 870.
Kautz, Huldah M. (See Kautz, George, Sr., assignor.)
Kautz, Julietta, Chicago, Ill. Roasting-pan. No. 965,636; July 26; Sp. p. 5720; Gaz. vol. 156; p. 972.
Kavle, Oscar C., assignor to H. A. Moyer, Syracuse, N. Y. Type-writing machine. No. 954,439; Apr. 12; Sp. p. 1564; Gaz. vol. 153; p. 288.
Kavle, Oscar C., assignor to H. A. Moyer and E. G. Latta, Syracuse, N. Y. Carriage for type-writing machines. No. 976,466; Nov. 22; Sp. p. 5272; Gaz. vol. 160; p. 895.
Kawasaki, Yasuke, Vancouver, British Columbia, Canada. Vaporizing and igniting means for hydrocarbon-lamps. No. 953,748; Apr. 5; Sp. p. 132; Gaz. vol. 153; p. 26.
Kawasaki, Yasuke, Vancouver, British Columbia, Canada. Incandescent-lamp system. No. 962,435; June 28; Sp. p. 4630; Gaz. vol. 155; p. 818.
Kay, Emily G. (See Monson, August A., assignor.)
Kay, Roy L., *et al.* (See Wood, Sidney J., assignor.)
Kay, William W., St. Louis, Mo. Conductor's cash-fare register. No. 976,467; Nov. 22; Sp. p. 5276; Gaz. vol. 160; p. 895.
Kaye, Melvin W., assignor to The Phoenix Glass Co., Monaca, Pa. Manufacturing glassware. No. 952,908; Mar. 22; Sp. p. 5005; Gaz. vol. 152; p. 899.
Kayser, Heinrich, Darmstadt, Germany. Composition of matter to be used for making acid-proof cement. No. 964,164; July 12; Sp. p. 2487; Gaz. vol. 156; p. 409.
Kayser, Firm of J. G. (See Kirschke, Otto, assignor.)
Kayser, John W., Madison, Wis. Truss. No. 977,098; Nov. 29; Sp. p. 6679; Gaz. vol. 160; p. 1137.
Kazulewski, Wlad, *et al.* (See Cebulla, Thomas, assignor.)
Keagy, Martin L. (See Keagy, Rudolph H. and M. L.)
Keagy, Rudolph H. and M. L., assignors of one-half to D. L. Holwick, Canton, Ohio. Combined abdominal supporter and catamenial sack. No. 976,883; Nov. 29; Sp. p. 6170; Gaz. vol. 160; p. 1063.
Kearin, Cornelius, Ramona, S. D. Pressure-regulating mechanism for grain-drills. No. 945,098; Jan. 4; Sp. p. 193; Gaz. vol. 150; p. 32.
Kearney, Henry, Carbondale, Pa. Combined cork and cork-puller. No. 950,751; Mar. 1; Sp. p. 625; Gaz. vol. 152; p. 100.
Kearns, William J., Fairchance, Pa. Coke-oven. No. 956,974; May 3; Sp. p. 1038; Gaz. vol. 154; p. 163.
Keasbey, Thomas W. (See Payton, John G., assignor.)
Keast, Alfred J., San Jose, assignor to California Fruit Canners Association, San Francisco, Cal. Can-syruping machine. No. 962,026; June 21; Sp. p. 3714; Gaz. vol. 155; p. 652.
Keast, George H. (See Bierman and Keast.)
Keating, James W., and A. McDonald, Portland, Oreg. Rotary engine. No. 964,431; July 12; Sp. p. 3016; Gaz. vol. 156; p. 497.

Alphabetical list of patentees—Continued.

Keating, Maurice J., assignor to A. R. Muller, Sawtelle, Cal. Fruit-picker. No. 964,788; July 19; Sp. p. 3926; Gaz. vol. 156; p. 652.
Keaton, Robert H., San Francisco, Cal. Non-skid tire. No. 979,961; Dec. 27; Sp. p. 5493; Gaz. vol. 161; p. 950.
Keats, Socrates, Leicester, England, assignor to Fortuna-Werke, Albert Hirth, Cannstatt-Stuttgart, Germany. Method of and machine for treating the edges of leather and like material. No. 946,844; Jan. 18; Sp. p. 4113; Gaz. vol. 150; p. 681.
Keck, Charles M. W. (See Hargraves and Miller, assignors.)
Keck, Charles M. W. (See Miller, Steinberger, and Hargraves, assignors.)
Keech, Ulysses W., Enumclaw, Wash. Dumping-car. No. 960,949; June 7; Sp. p. 1413; Gaz. vol. 155; p. 239.
Keefe, Eugene E., Bellows Falls, Vt. Comb. No. 959,866; May 31; Sp. p. 7438; Gaz. vol. 154; p. 1258.
Keefe, Eugene E., Bellows Falls, Vt. Comb. No. 959,867; May 31; Sp. p. 7440; Gaz. vol. 154; p. 1259.
Keefe, Joseph, Boston, assignor to C. S. Knowles, New Bedford, Mass. Electric switch. No. 967,932; Aug. 23; Sp. p. 4433; Gaz. vol. 157; p. 780.
Keefe, William J., assignor to Eureka Novelty Company, St. Louis, Mo. Amusement apparatus. No. 968,955; Aug. 30; Sp. p. 6643; Gaz. vol. 157; p. 1157.
Keefer, Samuel H., Plainfield, N. J. Variable-speed-controlling device for electric motors. No. 953,468; Mar. 29; Sp. p. 6218; Gaz. vol. 152; p. 1116.
Keefer, Samuel H., Plainfield, N. J. Motor-controlling apparatus. No. 972,625; Oct. 11; Sp. p. 2438; Gaz. vol. 159; p. 416.
Keefer, Samuel H., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. System of motor control. No. 967,133; Aug. 9; Sp. p. 2804; Gaz. vol. 157; p. 460.
Keefer, Samuel H., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Motor-controlling apparatus. No. 967,782; Aug. 16; Sp. p. 4127; Gaz. vol. 157; p. 707.
Keefer, William D., Los Angeles, Cal. Glass-taking apparatus. No. 966,753; Aug. 9; Sp. p. 2003; Gaz. vol. 157; p. 333.
Keegan, John G. (See Mayer and Keegan.)
Keegan, Richard, Bishop's Mills, Ontario, Canada. Nut-lock. No. 951,078; Mar. 1; Sp. p. 125; Gaz. vol. 152; p. 204.
Keehn, Clarence H., Indianapolis, Ind. Cable-code system. No. 970,716; Sept. 20; Sp. p. 3381; Gaz. vol. 158; p. 580.
Keeler, Edward A., Albany, N. Y. Hammer. No. 945,957; Jan. 11. Sp. p. 2125; Gaz. vol. 150; p. 353.
Keeler, Henry L., Lundys Lane, Pa. Station-indicator. No. 970,717; Sept. 20; Sp. p. 3385; Gaz. vol. 158; p. 580.
Keeler, Herbert E., New York, N. Y., assignor to Curtain Supply Company, Chicago, Ill. Curtain-fixture. No. 957,345; May 10; Sp. p. 1835; Gaz. vol. 154; p. 320.
Keeler, Herbert E., New York, N. Y., assignor to Curtain Supply Company, Chicago, Ill. Curtain-fixture. No. 957,346; May 10; Sp. p. 1840; Gaz. vol. 154; p. 320.
Keeler, Herbert E., New York, N. Y., assignor to Curtain Supply Company, Chicago, Ill. Curtain-fixture. No. 978,379; Dec. 13; Sp. p. 2079; Gaz. vol. 161; p. 363.
Keeler, Isaac H., *et al.* (See Kusterer, Carl C., assignor.)
Keeler, Miner S., *et al.* (See Kusterer, Carl C., assignor.)
Keeley, James W., Philadelphia, Pa. Flexible stay-bolt. No. 978,596; Dec. 13; Sp. p. 2566; Gaz. vol. 161; p. 438.
Keeley, John P., Coatesville, Pa. Can-opener. No. 953,843; Apr. 5; Sp. p. 324; Gaz. vol. 153; p. 57.
Keen, Walter H., Acampo, Cal. Rotary harrow. No. 968,164; Aug. 23; Sp. p. 4973; Gaz. vol. 157; p. 858.
Keenan, Joseph P., Waterbury, Conn. Score-board. No. 947,411; Jan. 25; Sp. p. 5362; Gaz. vol. 150; p. 899.
Keenan Regulator and Steam Fitting Co. (See Keenan, Thomas, assignor.)
Keenan, Thomas, Brooklyn, assignor to Keenan Regulator and Steam Fitting Co., New York, N. Y. Plug-valve. No. 968,362; Aug. 23; Sp. p. 5382; Gaz. vol. 157; p. 928.
Keenan, Walter M., Denver, Colo. Tobacco-pipe. No. 975,251; Nov. 8; Sp. p. 2656; Gaz. vol. 160; p. 429.
Keene, Samuel C., Boston, Mass. Sign. No. 949,578; Feb. 15; Sp. p. 3768; Gaz. vol. 151; p. 655.
Keene, William J., and G. W. Schuster, assignors to Chicago Spring Butt Company, Chicago, Ill. Spring-hinge. No. 971,281; Sept. 27; Sp. p. 4554; Gaz. vol. 158; p. 796.
Keeney, Joseph D., Indianapolis, Ind. Mop. No. 949,679; Feb. 15; Sp. p. 3943; Gaz. vol. 151; p. 687.
Keeran, Charles R., Bloomington, Ill. Top for jars. No. 957,064; May 3; Sp. p. 1217; Gaz. vol. 154; p. 193.
Keeran, Charles R., Bloomington, Ill. Vacuum-seal for jars. No. 973,512; Oct. 25; Sp. p. 4410; Gaz. vol. 159; p. 770.
Keeran, Charles R., Bloomington, Ill. Jar-seal. No. 976,659; Nov. 22; Sp. p. 5687; Gaz. vol. 160; p. 962.
Kees, John A, Beatrice, Nebr. Furnace-regulator. No. 945,785; Jan. 11; Sp. p. 1726; Gaz. vol. 150; p. 290.
Keeser, Leonhard, Simmelsdorf, near Schnaittach, Germany. Hay-turning machine of the drum type. No. 960,950; June 7; Sp. p. 1415; Gaz. vol. 155; p. 239.
Keeslar, Charles L. (See Hudson, Lee O., assignor.)
Keeton, Forrest M., Massillon, Ohio, assignor to Keeton Securities Company, New York, N. Y. Radiating mechanism for automobiles. No. 969,107; Aug. 30; Sp. p. 6951; Gaz. vol. 157; p. 1210.
Keeton, James, New York, N. Y., assignor to Julius Kayser & Company. Warp-beam. No. 946,757; Jan. 18; Sp. p. 3898; Gaz. vol. 150; p. 650.
Keeton Securities Company. (See Keeton, Forrest M., assignor.)
Keeton, William. (See Ervin and Keeton.)
Keever, Frank B. (See Hewitt, William J., assignor.)
Kegler, John J., Maquoketa, Iowa. Attachment for supporting signs. No. 962,963; June 28; Sp. p. 5705; Gaz. vol. 155; p. 1000.
Kehlstrom, August. (See Beck and Kehlstrom.)
Kehm, August, Elmhurst, Ill. Hanger for wall-radiators. No. 963,580; July 5; Sp. p. 1245; Gaz. vol. 156; p. 191.
Kehoe, James, New York, N. Y. Clothes-line attachment for windows. No. 949,770; Feb. 22; Sp. p. 4159; Gaz. vol. 151; p. 752.
Kehoe, Thomas J., Dayton, Ohio. Change-of-speed device. No. 952,529; Mar. 22; Sp. p. 4192; Gaz. vol. 152; p. 769.
Kehoe, William J., Washington, D. C. Stenographic machine. No. 960,951; June 7; Sp. p. 1419; Gaz. vol. 155; p. 239.
Kehr, Cyrus, trustee. (See Killman, Thomas A., assignor.)
Keighley, William B., Vineland, N. J. Welt-beveling machine. No. 959,223; May 24; Sp. p. 6086; Gaz. vol. 154; p. 1017.
Keighley, William B., Vineland, N. J. Shoe-trimming machine. No. 959,224; May 24; Sp. p. 6088; Gaz. vol. 154; p. 1018.
Keighley, William B., Vineland, N. J. Inseam-trimming machine. No. 960,952; June 7; Sp. p. 1423; Gaz. vol. 155; p. 240.
Keighley, William B., Vineland, N. J. Indenting-machine. No. 962,845; June 28; Sp. p. 5491; Gaz. vol. 155; p. 960.
Keighley, William B., Vineland, N. J. Sole-rounding machine. No. 964,273; July 12; Sp. p. 2706; Gaz. vol. 156; p. 447.
Keighley, William G. M., and H. Netherwood, Huddersfield, England. Stop-motion for velvet and like pile cutting machines. No. 946,136; Jan. 11; Sp. p. 2467; Gaz. vol. 150; p. 412.
Keijser, Lodewijk F., Zeist, assignor to Maatschappij tot Exploitatie Van Verstelbarelederen Hakken, Amsterdam, Netherlands. Detachable revolving heel for boots and shoes. No. 966,923; Aug. 9; Sp. p. 2366; Gaz. vol. 157; p. 387.
Keil, August N., Cincinnati, Ohio. Clothes-wringer. No. 975,624; Nov. 15; Sp. p. 3440; Gaz. vol. 160; p. 584.
Keil, Henry F., Bronxville, N. Y. Lock. No. 950,698; Mar. 1; Sp. p. 502; Gaz. vol. 152; p. 80.
Keil, Henry F., Bronxville, N. Y. Lock. No. 950,926; Mar. 1; Sp. p. 969; Gaz. vol. 152; p. 155.
Keil, Henry F., Bronxville, N. Y. Lock. No. 951,734; Mar. 8; Sp. p. 2565; Gaz. vol. 152; p. 445.
Keil, Henry F., Bronxville, N. Y. Lock. No. 952,118; Mar. 15; Sp. p. 3352; Gaz. vol. 152; p. 603.
Keil, Herman, Washington, D. C., assignor, by mesne assignments, to The Premier Last Company, Great River, N. Y. Last. No. 956,582; May 3; Sp. p. 161; Gaz. vol. 154; p. 28.
Keil, John C., and W. B. Allen, St. Louis, Mo. Collapsible hood or canopy for vehicles. No. 960,338; June 7; Sp. p. 205; Gaz. vol. 155; p. 35.
Keiller, David C. (See Berglund, Gustaf, assignor.)
Keiller and Son Lt'd. (See Boyd, William, assignor.)
Keim, Nathan H. (See Walton and Keim.)
Keip, Herman A., assignor to Electro Surgical Instrument Company, Rochester, N. Y. Alternating-current transformer. No. 954,518; Apr. 12; Sp. p. 1758; Gaz. vol. 153; p. 315.
Keiper, Henry B., Lancaster, Pa. Drilling-machine. No. 979,073; Dec. 20; Sp. p. 3565; Gaz. vol. 161; p. 624.
Keipper, Albert T., Milwaukee, Wis. Poultry-coop. No. 969,285; Sept. 6; Sp. p. 285; Gaz. vol. 158; p. 46.
Keisling, George, Scranton, and J. D. Brown, Dunmore, Pa. Steam-trap. No. 952,814; Mar. 22; Sp. p. 4829; Gaz. vol. 152; p. 868.
Keitel, Günther, New York, N. Y. Collar-support. (Reissue.) No. 13,070; Jan. 4; Sp. p. 1595; Gaz. vol. 150; p. 247.
Keith, Herbert J. and S. C., Jr., Somerville, assignors to H. J. Keith Company, Boston, Mass. Dessicating apparatus. No. 951,249; Mar. 8; Sp. p. 1583; Gaz. vol. 152; p. 284.
Keith, Herbert J. and S. C., Jr., Somerville, assignors to H. J. Keith Company, Boston, Mass. Preserving eggs. No. 955,835; Apr. 19; Sp. p. 4621; Gaz. vol. 153; p. 798.
Keith, James, London, England. Combined paper-weight and fan. No. 948,611; Feb. 8; Sp. p. 1756; Gaz. vol. 151; p. 304.
Keith, James, London, England. Heating, cooling, and ventilating apparatus. No. 951,250; Mar. 8; Sp. p. 1587; Gaz. vol. 152; p. 284.

Alphabetical list of patentees—Continued.

Keith, James, and W. W. Wardle, London, England. Apparatus for opening and separating threads of yarn and the like. No. 957,610; May 10; Sp. p. 2350; Gaz. vol. 154; p. 409.
Keith, James, and C. Tuson, London, England. Ventilator. No. 962,357; June 21; Sp. p. 4446; Gaz. vol. 155; p. 766.
Keith, John F., Naples, N. Y. Crank-pin connection for well-drilling machinery. No. 971,897; Oct. 4; Sp. p. 836; Gaz. vol. 159; p. 143.
Keith, Simeon C., Jr. (See Keith, Herbert J. and S. C. Jr.)
Keith, Simeon C., Jr., Somerville, Mass. Bubbling drinking-fountain. No. 973,790; Oct. 25; Sp. p. 4984; Gaz. vol. 159; p. 866.
Keith, Thomas & Company. (See Speyer, Herbert E., assignor.)
Keith, Thomas K., deceased, Boston; H. C. Hudson, administrator, assignor of one-half to F. M. Chapman, Salem, Mass. Machine for closing bottle ends with tin-foil. No. 955,270; Apr. 19; Sp. p. 3397; Gaz. vol. 153; p. 605.
Keith, Thomas K., deceased; H. C. Hudson, Lynn, Mass., administrator, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 978,297; Dec. 13; Sp. p. 1910; Gaz. vol. 161; p. 334.
Keithley, Herbert R., Kansas City, Mo. Manufacturing car-wheel blanks. No. 975,383; Nov. 8; Sp. p. 2932; Gaz. vol. 160; p. 473.
Keithley, Luther M., and A. E. Schien, Denver, Colo. Angle-boring machine. No. 960,097; May 31; Sp. p. 7967; Gaz. vol. 154; p. 1338.
Keizer, Lewis M. (See Coffee, Robert W., assignor.)
Keizur, Marcus L., Baker City, Oreg. Automatic life-sheet fender. No. 955,967; Apr. 26; Sp. p. 4939; Gaz. vol. 153; p. 873.
Kelch, John C. (See Reyman, Philip S., assignor.)
Kelemen, Andrew, and S. Lázár, Youngstown, Ohio. Gang-plank. No. 960,022; May 31; Sp. p. 7816; Gaz. vol. 154; p. 1313.
Keliher, Thomas F. (See Dilli, Charles, assignor.)
Kell, Byron V., *et al.* (See Fowler, Edward, assignor.)
Kell, Henry, assignor of one-half to J. F. Johnson and one-half to C. W. Piper, Worden, Ill. Threadless hose-coupling. No. 978,029; Dec. 6; Sp. p. 1305; Gaz. vol. 161; p. 209.
Kellaher, Charles. (See Drever and Kellaher.)
Kellam, Eli A., New York, N. Y. Covering pipes. No. 970,235; Sept. 13; Sp. p. 2347; Gaz. vol. 158; p. 396.
Kellander, Harold S., Imogene, Minn. Land-marker. No. 964,027; July 12; Sp. p. 2208; Gaz. vol. 156; p. 363.
Kellar, George E., assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Valve. No. 966,754; Aug. 9; Sp. p. 2010; Gaz. vol. 157; p. 334.
Kellar, George E., assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Water-gate. No. 967,524; Aug. 16; Sp. p. 3618; Gaz. vol. 157; p. 621.
Kellar, George E., and E. O. Thomason, assignors to Kellar-Thomason Manufacturing Company, Covina, Cal. Hydrant. No. 972,384; Oct. 11; Sp. p. 1879; Gaz. vol. 159; p. 330.
Kellar-Thomason Manufacturing Company. (See Kellar, George E., assignor.)
Kellar-Thomason Manufacturing Company. (See Kellar and Thomason, assignors.)
Kellar-Thomason Manufacturing Company. (See Snow, Frank P., assignor.)
Kellem, Harry, Rineyville, Ky. Window-sash fastener. No. 959,145; May 24; Sp. p. 5922; Gaz. vol. 154; p. 991.
Kellemen, Henry F., assignor to Utica Drop Forge & Tool Company, Utica, N. Y. Feeding device for milling-machines. No. 957,562; May 10; Sp. p. 2270; Gaz. vol. 154; p. 393.
Keller, Andreas R., Chicago, Ill. Deflector for mashing-machines. No. 979,510; Dec. 27; Sp. p. 4511; Gaz. vol. 161; p. 796.
Keller, Charles A., Rosedale, Ind. Whip-socket. No. 956,494; Apr. 26; Sp. p. 6096; Gaz. vol. 153; p. 1055.
Keller, Charles A., Paris, France. Electrical conductor. No. 961,139; June 14; Sp. p. 1809; Gaz. vol. 155; p. 328.
Keller, Charles J., Bloomsburg, Pa. Ear-muffler. No. 953,623; Mar. 29; Sp. p. 6549; Gaz. vol. 152; p. 1170.
Keller, Christian, and H. Schwark, Cochrane, Wis. Machine for cutting ice. No. 968,243; Aug. 23; Sp. p. 5145; Gaz. vol. 157; p. 886.
Keller, Edwin W., assignor to Armac Motor Company, Chicago, Ill. Frame for motor-cycles. No. 946,758; Jan. 18; Sp. p. 3900; Gaz. vol. 150; p. 650.
Keller, Frederick H. von, New York, N. Y., assignor to Cooper Hewitt Electric Company. Means for starting serially-operated vapor-converters. No. 946,053; Jan. 11; Sp. p. 2313; Gaz. vol. 150; p. 384.
Keller, George S. (See Thiesen and Keller.)
Keller, George W., and E. C. Goetz, Portsmouth, Ohio. Rotary pump. No. 960,339; June 17; Sp. p. 206; Gaz. vol. 155; p. 36.
Keller, Gottlieb, New York, N. Y. Lamp. No. 973,050; Oct. 18; Sp. p. 3401; Gaz. vol. 159; p. 589.
Keller, Herbert M., Philadelphia, Pa. Broom-holder. No. 976,809; Nov. 22; Sp. p. 5986; Gaz. vol. 160; p. 1011.
Keller, Jeremiah, assignor to The Selig Polyscope Company, Chicago, Ill. Moving-picture machine. No. 971,898; Oct. 4; Sp. p. 837; Gaz. vol. 159; p. 143.
Keller, John A., assignor to L. Shubert, New York, N. Y. Vehicle-tire. No. 967,643; Aug. 16; Sp. p. 3843; Gaz. vol. 157; p. 660.
Keller, John E., Jr., Litchfield, Conn. Inflation-valve. No. 966,023; Aug. 2; Sp. p. 388; Gaz. vol. 157; p. 62.
Keller, John F. (See Price and Bennett, assignors.)
Keller, John M., Youngstown, Ohio. Invalid-bed. No. 971,381; Sept. 27; Sp. p. 4745; Gaz. vol. 158; p. 829.
Keller, John R., Pittsburg, Pa. Rail-joint. No. 970,236; Sept. 13; Sp. p. 2348; Gaz. vol. 158; p. 396.
Keller, Joseph F., and W. A. Warman, assignors to Keller Mechanical Engraving Company, New York, N. Y. Machine for engraving or sinking dies. No. 956,769; May 3; Sp. p. 577; Gaz. vol. 154; p. 92.
Keller, Louis E., Oil City, Pa. Car-journal, sponging-shield, and oil-saver. No. 958,135; May 17; Sp. p. 3681; Gaz. vol. 154; p. 621.
Keller Manufacturing Company. (See Keller, William H., assignor.)
Keller Manufacturing Company. (See Wiedemann and Templin, assignors.)
Keller Mechanical Engraving Company. (See Keller and Warman, assignors.)
Keller, Michael, Eureka, Utah. Oscillating-piston pump. No. 961,618; June 14; Sp. p. 2851; Gaz. vol. 155; p. 493.
Keller, Otto J., Los Angeles, Cal. Pump-plunger. No. 977,881; Dec. 6; Sp. p. 1002; Gaz. vol. 161; p. 158.
Keller, Traugott F., Brooklyn, N. Y. Bolt-anchor. No. 966,024; Aug. 2; Sp. p. 390; Gaz. vol. 157; p. 62.
Keller, William G., Avon, N. Y. Wrench. No. 969,880; Sept. 13; Sp. p. 1597; Gaz. vol. 158; p. 275.
Keller, William H., *et al.* (See Gardner, Elijah, assignor.)
Keller, William H., Philadelphia, Pa. Pneumatic tool. No. 949,080; Feb. 15; Sp. p. 2737; Gaz. vol. 151; p. 487.
Keller, William H., Philadelphia, Pa., assignor to Keller Manufacturing Company. Pumping apparatus for vacuum-cleaners and the like. No. 956,975; May 3; Sp. p. 1040; Gaz. vol. 154; p. 163.
Keller, William H., assignor to Keller Manufacturing Company, Philadelphia, Pa. Motor suction-pump. No. 975,532; Nov. 15; Sp. p. 3252; Gaz. vol. 160; p. 552.
Kellermann, William. (See Heinrich and Kellermann.)
Kellermeyer, Edward C. (See Lane, George A., assignor.)
Kellett, Oscar L., West Plains, Mo. Hydraulic motor for dental engines. No. 959,352; May 24; Sp. p. 6342; Gaz. vol. 154; p. 1060.
Kelley, Albert C., Slocomb, Ala. Car-replacer. No. 951,532; Mar. 8; Sp. p. 2180; Gaz. vol. 152; p. 378.
Kelley, Edd H., *et al.* (See McCarty, Milton T., assignor.)
Kelley, Edward F., assignor to The Royal Equipment Company, Bridgeport, Conn. Brake. No. 977,744; Dec. 6; Sp. p. 715; Gaz. vol. 161; p. 112.
Kelley, Eugene E., Greensburg, Pa. Trolley-wheel guard. No. 979,311; Dec. 20; Sp. p. 4108; Gaz. vol. 161; p. 708.
Kelley, Frederick H., Northboro, Mass. Hand-clamp or vise. No. 947,915; Feb. 1; Sp. p. 283; Gaz. vol. 151; p. 47.
Kelley, Horace C. (See Wightman, Sherburne H., assignor.)
Kelley, Howard T., G. N. Matthews, and G. F. Davis, Silver Valley, Tex. Animal-poke. No. 971,618; Oct. 4; Sp. p. 238; Gaz. vol. 159; p. 42.
Kelley, John C., assignor to National Meter Company, New York, N. Y. Water-meter piston. No. 950,636; Mar. 1; Sp. p. 370; Gaz. vol. 152; p. 60.
Kelley, John M., Rochester, N. Y. Carbureter. No. 964,165; July 12; Sp. p. 2487; Gaz. vol. 156; p. 409.
Kelley, John R., Cincinnati, Ohio. Localizing apparatus. No. 965,195; July 26; Sp. p. 4733; Gaz. vol. 156; p. 819.
Kelley, Joseph W., Brookline, Mass. Attachment for hose-pipe nozzles. No. 952,530; Mar. 22; Sp. p. 4193; Gaz. vol. 152; p. 770.
Kelley, Lawrence, Concordia, Kans. Current-deflector. No. 978,897; Dec. 20; Sp. p. 3165; Gaz. vol. 161; p. 562.
Kelley, William V., *et al.* (See Murray, Charles F., assignor.)
Kelling, John, Milwaukee, Wis. Lawn-mower attachment. No. 973,667; Oct. 25; Sp. p. 4747; Gaz. vol. 159; p. 824.
Kellington, John, New Westminster, British Columbia, Canada. Gas-engine. No. 951,079; Mar. 1; Sp. p. 1247; Gaz. vol. 152; p. 205.
Kellington, John, New Westminster, British Columbia, Canada. Gas-engine muffler. No. 951,080; Mar. 1; Sp. p. 1248; Gaz. vol. 152; p. 205.
Kellner, Edgar J., and W. F. Edwards, New York, N. Y. Illuminated sign. No. 962,436; June 28; Sp. p. 4632; Gaz. vol. 155; p. 818.
Kellner, Eugene, assignor of one-half to B. H. Hill, Waco, Tex. Ledger with visible index. No. 955,807; Apr. 19; Sp. p. 4556; Gaz. vol. 153; p. 787.
Kellner, Gustav A. H., Rochester, N. Y., assignor, by mesne assignments, to Bausch & Lomb Optical Company. Projecting-lamp. No. 969,785; Sept. 13; Sp. p. 1379; Gaz. vol. 158; p. 242.
Kellner, Jennie W., Omaha, Nebr. Soil-reclaiming means for water-currents. No. 949,933; Feb. 22; Sp. p. 4537; Gaz. vol. 151; p. 810.
Kellner, Julius, Calumet, Pa. Bending-machine. No. 979,962; Dec. 27; Sp. p. 5495; Gaz. vol. 161; p. 950.

Alphabetical list of patentees—Continued.

Kellner, Walter, Langerfeld, near Barmen, Germany. Machinery for manufacturing paper tubes. No. 968,855; Aug. 30; Sp. p. 6438; Gaz. vol. 157; p. 1122.
Kellogg, Benjamin, deceased; E. F. Kellogg, Buffalo, N. Y., administratrix. Fireless cooker. No. 968,165; Aug. 23; Sp. p. 4975; Gaz. vol. 157; p. 858.
Kellogg, Carl A., Battle Creek, Mich. Window-wiping device. No. 956,770; May 3; Sp. p. 581; Gaz. vol. 154; p. 92.
Kellogg, Charles F. A., Gloster, Miss. Device for fastening and handling egg-crates. No. 967,525; Aug. 16; Sp. p. 3619; Gaz. vol. 157; p. 621.
Kellogg, Charles S., *et al.* (See Lewis, Lorenzo D., assignor.)
Kellogg, Edgar C., Washington, D. C. Miter-block. No. 956,711; May 3; Sp. p. 460; Gaz. vol. 154; p. 73.
Kellogg, Esther F., administratrix. (See Kellogg, Benjamin.)
Kellogg, George B., *et al.* (See Lewis, Lorenzo D., assignor.)
Kellogg, George W., Rochester, N. Y. Detachable pump. No. 954,864; Apr. 12; Sp. p. 2569; Gaz. vol. 153; p. 437.
Kellogg, George W., Rochester, N. Y. Cam-driven multiple-cylinder pump apparatus. No. 973,668; Oct. 25; Sp. p. 4748; Gaz. vol. 159; p. 825.
Kellogg, James C., Jr., Elizabeth, N. J., assignor to E. Williams, New York, N. Y. Liquid-storing device. No. 965,196; July 26; Sp. p. 4739; Gaz. vol. 156; p. 820.
Kellogg, James L., New York, N. Y. Surprise or joke toy. No. 954,031; Apr. 5; Sp. p. 698; Gaz. vol. 153; p. 122.
Kellogg, James W., Schenectady, N. Y., assignor to General Electric Company. Projector-lamp. No. 947,993; Feb. 1; Sp. p. 442; Gaz. vol. 151; p. 72.
Kellogg, Leroy D., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Automatic distributing system. No. 960,176; May 31; Sp. p. 8112; Gaz. vol. 154; p. 1365.
Kellogg, Luke L., Fredonia, N. Y. Combination-padlock. No. 947,994; Feb. 1; Sp. p. 444; Gaz. vol. 151; p. 72.
Kellogg, Spencer, Buffalo, N. Y. Barrel-cleaning apparatus. No. 954,811; Apr. 12; Sp. p. 2441; Gaz. vol. 153; p. 417.
Kellogg Switchboard and Supply Company. (See Bradbury, Clifford C., assignor.)
Kellogg Switchboard & Supply Company. (See Dyson, Alfred H., assignor.)
Kellogg Switchboard and Supply Company. (See Joy, Guy A., assignor.)
Kellogg Switchboard & Supply Company. (See Kaisling, William, assignor.)
Kellogg Switchboard & Supply Company. (See Kellogg, Leroy D., assignor.)
Kellogg Switchboard and Supply Company. (See Lawver and Bradbury, assignors.)
Kellogg Switchboard and Supply Company. (See Leaver, William, assignor.)
Kellogg Switchboard & Supply Company. (See Webster, Harry G., assignor.)
Kellogg Switchboard & Supply Company. (See Weiss, Alfred H., assignor.)
Kellogg Switchboard and Supply Company. (See Winston, Charles S., assignor.)
Kellogg, Sylvanus H., Los Angeles, Cal. Poison-bottle. No. 959,751; May 31; Sp. p. 7178; Gaz. vol. 154; p. 1218.
Kellogg, Walter P., Syracuse, N. Y. Garment-supporter. No. 953,957; Apr. 5; Sp. p. 534; Gaz. vol. 153; p. 97.
Kellogg, Will K. (See Johnson, Harry L., assignor.)
Kellogg, William E., Inglewood, Cal. Quick-lunch cabinet. No. 967,783; Aug. 16; Sp. p. 4129; Gaz. vol. 157; p. 707.
Kellogg, William S., Jr., Peoria, Ill. Gas explosion-engine. No. 950,155; Feb. 22; Sp. p. 5039; Gaz. vol. 151; p. 886.
Kellogg, William S., Jr., Peoria, Ill. Gas-engine. No. 950,395; Feb. 22; Sp. p. 5520; Gaz. vol. 151; p. 967.
Kellum, Frank W., Peabody, Kans. Stock-feeder. No. 961,779; June 21; Sp. p. 3179; Gaz. vol. 155; p. 571.
Kelly, David J., assignor to Kelly Filter Press Company, Salt Lake City, Utah. Filtering apparatus. No. 957,467; May 10; Sp. p. 2076; Gaz. vol. 154; p. 360.
Kelly Filter Press Company. (See Kelly, David J., assignor.)
Kelly, George, Mineral Point, Wis. Press. No. 958,813; May 24; Sp. p. 5212; Gaz. vol. 154; p. 879.
Kelly, George, Hinsdale, Ill. Flexible vulcanized-fiber board and making the same. No. 966,101; Aug. 2; Sp. p. 550; Gaz. vol. 157; p. 89.
Kelly, George B., Jamaica Plain, and F. L. Wood, Worcester, Mass. Feed mechanism for perforating-machines. No. 947,495; Jan. 25; Sp. p. 5579; Gaz. vol. 150; p. 927.
Kelly, James, Deer River, Minn. Penholder. No. 945,171; Jan. 4; Sp. p. 337; Gaz. vol. 150; p. 57.
Kelly, James, Providence, R. I. Humidifier. No. 947,040; Jan. 18; Sp. p. 4527; Gaz. vol. 150; p. 746.
Kelly, James, Providence, R. I. Humidifier. No. 956,103; Apr. 26; Sp. p. 5231; Gaz. vol. 153; p. 920.
Kelly, James F. (See Meskill, John J., assignor.)
Kelly, James H., *et al.* (See Wynn, Robert E., assignor.)
Kelly, James H., Holliston, Mass. Machine for making eyelets and similar articles. No. 978,898; Dec. 20; Sp. p. 3167; Gaz. vol. 161; p. 563.
Kelly, James N., Bozeman, Mont. Combined ironing-board and step-ladder. No. 967,198; Aug. 16; Sp. p. 2946; Gaz. vol. 157; p. 509.
Kelly, John, Jamaica Plain, Mass. Vehicle. No. 945,330; Jan. 4; Sp. p. 716; Gaz. vol. 150; p. 110.
Kelly, John A., New York, N. Y. Cushion-shoe. No. 950,265; Feb. 22; Sp. p. 5280; Gaz. vol. 151; p. 926.
Kelly, John F., Trenton, N. J. Basin-cock. No. 958,927; May 24; Sp. p. 5483; Gaz. vol. 154; p. 920.
Kelly, John F., Pittsfield, Mass. Electric playing apparatus for musical instruments. No. 964,274; July 12; Sp. p. 2708; Gaz. vol. 156; p. 447.
Kelly, John F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Water-closet bowl. No. 952,531; Mar. 22; Sp. p. 4194; Gaz. vol. 152; p. 770.
Kelly, John F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Vented water-closet bowl. No. 963,297; July 5; Sp. p. 676; Gaz. vol. 156; p. 95.
Kelly, John H., San Francisco, Cal. Safety connection for shaft-collars and the like. No. 959,752; May 31; Sp. p. 7179; Gaz. vol. 154; p. 1219.
Kelly, John J., Whiting, Ind. Hot-water tank. No. 953,958; Apr. 5; Sp. p. 536; Gaz. vol. 153; p. 97.
Kelly, John J., New York, N. Y. Car-fender. No. 954,303; Apr. 5; Sp. p. 1296; Gaz. vol. 153; p. 214.
Kelly, John L., Chicago, Ill. Dental instrument. No. 971,382; Sept. 27; Sp. p. 4748; Gaz. vol. 158; p. 829.
Kelly, John P., Basking Ridge, N. J. Fire-alarm system. No. 947,000; Jan. 18; Sp. p. 4451; Gaz. vol. 150; p. 733.
Kelly, John P., Springfield, Mass. Water-meter. No. 969,286; Sept. 6; Sp. p. 286; Gaz. vol. 158; p. 47.
Kelly, John T., Brooklyn, N. Y., assignor of one-half to G. M. Jones, Pittsburg, Pa. Pipe-union. No. 974,975; Nov. 8; Sp. p. 2055; Gaz. vol. 160; p. 335.
Kelly, Louis N., Lancaster, N. Y. Bridle-bit. No. 964,917; July 19; Sp. p. 4187; Gaz. vol. 156; p. 698.
Kelly Motor Truck Company, The. (See Frayer and Miller, assignors.)
Kelly Motor Truck Company, The. (See Miller, William J., assignor.)
Kelly, Patrick B., Petersburg, Ill. Gymnastic apparatus. No. 961,450; June 14; Sp. p. 2487; Gaz. vol. 155; p. 437.
Kelly, Richard W., assignor of one-half to G. E. Harpham, Los Angeles, Cal. Slack-adjuster. No. 949,680; Feb. 15; Sp. p. 3944; Gaz. vol. 151; p. 687.
Kelly, Robert E., Cocoanut Grove, Fla. Telescoping mudguard. No. 979,074; Dec. 20; Sp. p. 3568; Gaz. vol. 161; p. 624.
Kelly, Robert M., Longview, Tex. Plow. No. 974,675; Nov. 1; Sp. p. 1352; Gaz. vol. 160; p. 210.
Kelly, Robert M., Longview, Tex. Plow. No. 974,676; Nov. 1; Sp. p. 1354; Gaz. vol. 160; p. 210.
Kelly, Sallie R., Wellington, Tex. Pan-lifter. No. 963,774; July 12; Sp. p. 1653; Gaz. vol. 156; p. 278.
Kelly, Samuel J., White Plains, N. Y. Coin-controlled lock. No. 959,753; May 31; Sp. p. 7180; Gaz. vol. 154; p. 1219.
Kelly, Samuel J., White Plains, N. Y. Coin-operated drop-box. No. 976,884; Nov. 29; Sp. p. 6172; Gaz. vol. 160; p. 1063.
Kelly, Thomas, Milwaukee, Wis., and C. L. Gerds, Chicago, Ill. Try-cock for steam-boilers. No. 952,036; Mar. 15; Sp. p. 3204; Gaz. vol. 152; p. 576.
Kelly, Thomas J. (See Edwards, Rufus E., assignor.)
Kelly, Thomas J., Fosston, Minn. Potato-planting machine. No. 956,583; May 3; Sp. p. 164; Gaz. vol. 154; p. 28.
Kelly, Wallace C., Hastings, Mich. Hydraulic motor. No. 979,511; Dec. 27; Sp. p. 4513; Gaz. vol. 161; p. 796.
Kelly, Walter E., Belvidere, Nebr. Intravaginal infantile respirator. No. 954,519; Apr. 12; Sp. p. 1760; Gaz. vol. 153; p. 316.
Kelly, William F., St. Louis, Mo. Press for making plaster-board. No. 967,933; Aug. 23; Sp. p. 4434; Gaz. vol. 157; p. 780.
Kelly, William F. C., Kensington, London, and T. Bolas, Chiswick, England. Apparatus for developing photographic films. No. 976,810; Nov. 22; Sp. p. 5987; Gaz. vol. 160; p. 1011.
Kelly, William J., Denver, Colo. Farrier's nail-driving hammer. No. 965,716; July 26; Sp. p. 5880; Gaz. vol. 156; p. 999.
Kelly, William M., New York, N. Y. Type setting and distributing machine. No. 978,456; Dec. 13; Sp. p. 2240; Gaz. vol. 161; p. 388.
Kelman, Joseph N., Los Angeles, Cal. Insulator for high-potential circuits. No. 949,184; Feb. 15; Sp. p. 2951; Gaz. vol. 151; p. 522.
Kelman, Joseph N., Los Angeles, Cal. Switch and circuit-breaker for high-potential circuits. No. 971,847; Oct. 4; Sp. p. 706; Gaz. vol. 159; p. 124.
Kelmel, Rudolph M., Jersey City, N. J. Brush. No. 946,370; Jan. 11; Sp. p. 3079; Gaz. vol. 150; p. 495.
Kelsey, Cadwallader W., Philadelphia, Pa. Portable vacuum-cleaner. No. 978,167; Dec. 13; Sp. p. 1629; Gaz. vol. 161; p. 288.
Kelsey, Duane J., New Haven, Conn. Drafting instrument. No. 966,924; Aug. 9; Sp. p. 2367; Gaz. vol. 157; p. 388.

Kelsey, Mather B., and H. L. Monarch, Richmond, Ind. Post or pole forming device. No. 975,135; Nov. 8; Sp. p. 2398; Gaz. vol. 160; p. 389.
Kelso, Archibald, Pittsburg, Pa. Fluid-motor. No. 963,581; July 5; Sp. p. 1246; Gaz. vol. 156; p. 191.
Kelso, Joseph, assignor to The McConway & Torley Company, Pittsburg, Pa. Car-coupling. No. 956,976; May 3; Sp. p. 1044; Gaz. vol. 154; p. 164.
Kelso, Lorenza D., Cleveland, Okla. Combination match-box and supporting-rack. No. 965,468; July 26; Sp. p. 5334; Gaz. vol. 156; p. 912.
Kelso, William, assignor to The McConway & Torley Company, Pittsburg, Pa. Draft appliance for railway-cars. No. 950,485; Mar. 1; Sp. p. 43; Gaz. vol. 152; p. 9.
Kelterborn, August G. (See Benner and Kelterborn.)
Kelton, John M. (See Wright, James E., assignor.)
Kemball, Joseph C., Arden, Wash. Fumigator. No. 976,266; Nov. 22; Sp. p. 4845; Gaz. vol. 160; p. 827.
Kemble, Duston, Lakewood, Ohio. Turbine vane and wheel. No. 974,496; Nov. 1; Sp. p. 970; Gaz. vol. 160; p. 144.
Kemble, Duston, Lakewood, Ohio. Electric generator and motor. No. 974,497; Nov. 1; Sp. p. 972; Gaz. vol. 160; p. 144.
Kemble, Thomas S., Cleveland, Ohio. Turbine. No. 951,373; Mar. 8; Sp. p. 1854; Gaz. vol. 152; p. 324.
Kemery, Charles L., Pittsburg, Pa. Apparatus for casting dental inlays. No. 951,614; Mar. 8; Sp. p. 2335; Gaz. vol. 152; p. 405.
Kemler, William H., Ashland, Ky. Hydrating lime. No. 956,977; May 3; Sp. p. 1048; Gaz. vol. 154; p. 164.
Kemmer, James E., *et al.* (See Crump, Robert B., assignor.)
Kemmerling, Grant, Douglas Island, Alaska. Front head for drilling-machines. No. 960,557; June 7; Sp. p. 653; Gaz. vol. 155; p. 106.
Kemmler, John, Trestle, Pa. Pipe and rod gripping device. No. 964,432; July 12; Sp. p. 3017; Gaz. vol. 156; p. 497.
Kemna, Joseph. (See Drake, Julian F., assignor.)
Kemp, Albert M., M. W. Loomis, Denver, Colo., and J. E. Fitzwater, Rossville, Ill. Rifle for concentrating-tables. No. 963,582; July 5; Sp. p. 1249; Gaz. vol. 156; p. 191.
Kemp, Basel D., Gracemont, Okla. Nut-lock. No. 962,642; June 28; Sp. p. 5081; Gaz. vol. 155; p. 888.
Kemp, Clarence M. (See Van Horn, William H., assignor.)
Kemp, Clarence M., Baltimore, Md. Carbureting apparatus. No. 976,885; Nov. 29; Sp. p. 6174; Gaz. vol. 160; p. 1063.
Kemp, Edward. (See Graham, James H., assignor.)
Kemp, Horatio S., assignor to Wallace Smith and Company, Milwaukee, Wis. Spotting-machine. No. 948,509; Feb. 8; Sp. p. 1538; Gaz. vol. 151; p. 271.
Kemp Hydro-Carbon Furnace Company, The. (See Worthen, Burt L., assignor.)
Kemp, Joseph S., Stratford, Ontario, Canada. Sawbuck. No. 951,399; Mar. 8; Sp. p. 1918; Gaz. vol. 152; p. 333.
Kemp, Randolph M., Durham Ox, near Pyramid Hill, Victoria, Australia. Subsoil-cultivator attachment for plows. No. 950,852; Mar. 1; Sp. p. 831; Gaz. vol. 152; p. 133.
Kemp, Randolph M., Durham Ox, Victoria, Australia. Plow. No. 971,448; Sept. 27; Sp. p. 4859; Gaz. vol. 158; p. 851.
Kemp, Robert C. (See Linguist, Charles, assignor.)
Kemper, Arthur. (See Kemper, Robert E. and A.)
Kemper, Robert E. and A., Rensselaer, N. Y. Sheet-feeding machine. No. 975,252; Nov. 8; Sp. p. 2658; Gaz. vol. 160; p. 429.
Kemper, Trellis R., Weldon, Iowa. Folding crib attachment for beds. No. 973,439; Oct. 18; Sp. p. 4242; Gaz. vol. 159; p. 722.
Kemper, William, Dexter, Iowa. Flood-fence. No. 965,111; July 19; Sp. p. 4565; Gaz. vol. 156; p. 761.
Kemper, William, Dexter, Iowa. Adjustable flood-gate. No. 965,112; July 19; Sp. p. 4566; Gaz. vol. 156; p. 761.
Kempshall, Eleazer, Boston, Mass., assignor to Manhattan Manufacturing Company, Portland, Me. Manufacture of compound sheet material. No. 964,524; July 19; Sp. p. 3247; Gaz. vol. 156; p. 560.
Kempshall, Iva B., Boston, Mass. Automobile-tire. No. 945,396; Jan. 4; Sp. p. 850; Gaz. vol. 150; p. 132.
Kempshall, Iva B., Boston, Mass. Antiskidding tire. No. 957,165; May 3; Sp. p. 1419; Gaz. vol. 154; p. 227.
Kempshall, Iva B., Boston, Mass. Vehicle-tire. No. 957,166; May 3; Sp. p. 1421; Gaz. vol. 154; p. 228.
Kempshall, Iva B., Boston, Mass. Tire. No. 973,278; Oct. 18; Sp. p. 3897; Gaz. vol. 159; p. 667.
Kempshall, Iva B., Boston, Mass., assignor to Kempshall Tire Company. Tire. No. 957,167; May 3; Sp. p. 1423; Gaz. vol. 154; p. 228.
Kempshall, Iva B., Boston, Mass., assignor to Kempshall Tire Company. Tire. No. 957,168; May 3; Sp. p. 1424; Gaz. vol. 154; p. 228.
Kempshall Tire Company. (See Kempshall, Iva B., assignor.)
Kempski, Alfred A., Wilmington, Del. Car-ventilator. No. 973,513; Oct. 25; Sp. p. 4412; Gaz. vol. 159; p. 771.
Kempston, Arthur, San Francisco, Cal. Electric signaling-box. No. 979,769; Dec. 27; Sp. p. 5084; Gaz. vol. 161; p. 885.
Kempton, Willard H., assignor to The Johns-Pratt Company, Hartford, Conn. Insulating-support for overhead electric-railway conductors. No. 966,102; Aug. 2; Sp. p. 552; Gaz. vol. 157; p. 89.
Kenan, John J. W., assignor to T. W. Jenkins, Philadelphia, Pa. Feed-chute. No. 972,454; Oct. 11; Sp. p. 2026; Gaz. vol. 159; p. 355.
Kendall, David, assignor to The Alliance Machine Company, Alliance, Ohio. Combined ingot stripper and charger. No. 945,548; Jan. 4; Sp. p. 1166; Gaz. vol. 150; p. 181.
Kendall, David, assignor to The Alliance Machine Company, Alliance, Ohio. Ingot-stripper. No. 969,634; Sept. 6; Sp. p. 1028; Gaz. vol. 158; p. 165.
Kendall, Edward P., Bowdoinham, Me. Bag-holder. No. 973,355; Oct. 18; Sp. p. 4057; Gaz. vol. 159; p. 694.
Kendall, Stephen H. (See Bircher, Eugene A., assignor.)
Kendall, William H. (See Golden and Kendall.)
Kendig, Charles D., Lorain, Ohio. Perpetual calendar. No. 968,363; Aug. 23; Sp. p. 5383; Gaz. vol. 157; p. 929.
Kendig, Roscoe B. (See Parish and Kendig.)
Kendle, Hermann, Eatonville, Wash. Scraper. No. 953,624; Mar. 29; Sp. p. 6550; Gaz. vol. 152; p. 1170.
Kendrick, Ada C., Williamsburg, Kans. Desk attachment. No. 974,394; Nov. 1; Sp. p. 706; Gaz. vol. 160; p. 107.
Kendrick, Arthur B., East Orange, N. J. Abdominal belt or support. No. 947,412; Jan. 25; Sp. p. 5365; Gaz. vol. 150; p. 899.
Kendrick and Davis Company. (See Cunningham, Frank B., assignor.)
Kendrick, George I. (See Carroll, James, assignor.)
Kendrick, George R., Portland, Ind. Filler-machine. No. 980,103; Dec. 27; Sp. p. 5808; Gaz. vol. 161; p. 996.
Kendrick and Hill Manufacturing Company, The. (See Hill, Alfred, assignor.)
Kendrick, John W., Chicago, Ill. Tool-car. No. 953,668; 952,568; Mar. 22; Sp. p. 4279; Gaz. vol. 152; p. 784.
Kendrick, John W., Chicago, Ill. Articulated compound locomotive. No. 952,909; Mar. 22; Sp. p. 5007; Gaz. vol. 152; p. 900.
Kendrick, John W., Chicago, Ill. Tool-car. No. 953,668; Mar. 29; Sp. p. 6643; Gaz. vol. 152; p. 1185.
Kendrick, Karl A., assignor of one-half to H. Geer, Detroit, Mich. Power-transmission mechanism. No. 972,385; Oct. 11; Sp. p. 1882; Gaz. vol. 159; p. 330.
Kendrick, Karl A., assignor of one-half to H. Geer, Detroit, Mich. Driving mechanism for motor-vehicles. No. 972,455; Oct. 11; Sp. p. 2028; Gaz. vol. 159; p. 355.
Kendrick, Matthew B., Newport, Ky. Stovepipe-collar. No. 978,457; Dec. 13; Sp. p. 2243; Gaz. vol. 161; p. 389.
Kendrick Railway Switch Company. (See Donnan, George W., assignor.)
Kendrick, Solomon, Rochester, N. Y. Rack adjustment for looms. No. 949,579; Feb. 15; Sp. p. 3769; Gaz. vol. 151; p. 655.
Kenely, Martin F., Elizabeth, N. J. House-heating boiler. No. 970,833; Sept. 20; Sp. p. 3647; Gaz. vol. 158; p. 622.
Kener, Edward, Jr., assignor to Buffalo Co-operative Stove Company, Buffalo, N. Y. Stove. No. 974,280; Nov. 1; Sp. p. 452; Gaz. vol. 160; p. 67.
Keneven, Daniel. (See Smith and Keneven.)
Kenlon, John, New York, N. Y. Pressure-regulator. No. 946,228; Jan. 11; Sp. p. 2675; Gaz. vol. 150; p. 445.
Kenly, George T., Baltimore, Md., assignor to The Plumbing Specialty Company. Shower-valve for bath apparatus. No. 961,723; June 14; Sp. p. 3045; Gaz. vol. 155; p. 528.
Kenmonth, John C. (See Henry, John L., assignor.)
Kenmonth, John C., Los Angeles, Cal. Hydrocarbon-burner. No. 953,147; Mar. 29; Sp. p. 5530; Gaz. vol. 152; p. 1008.
Kennard, John H., *et al.* (See Greene, Howard, assignor.)
Kennedy, Albert E. (See Tuck and Kennedy.)
Kennedy, Albert E., Leyton, England. Picture. No. 959,754; May 31; Sp. p. 7183; Gaz. vol. 154; p. 1219.
Kennedy, Albert E., Leyton, England. Toy figure. No. 961,968; June 21; Sp. p. 3602; Gaz. vol. 155; p. 633.
Kennedy, Andrew J., Chicago, Ill. Skate. No. 979,169; Dec. 20; Sp. p. 3820; Gaz. vol. 161; p. 661.
Kennedy, Cyrus C., South Rock Island, Ill. Extensible electric-light chandelier. No. 971,899; Oct. 4; Sp. p. 839; Gaz. vol. 159; p. 144.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 952,569; Mar. 22; Sp. p. 4280; Gaz. vol. 152; p. 784.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 959,755; May 31; Sp. p. 7185; Gaz. vol. 154; p. 1220.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 975,433; Nov. 15; Sp. p. 3030; Gaz. vol. 160; p. 517.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 975,434; Nov. 15; Sp. p. 3031; Gaz. vol. 160; p. 517.
Kennedy, George M. (See Killian and Kennedy.)

Alphabetical list of patentees—Continued.

Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Combined stuffing-box, gasket, valve, and spring. No. 957,347; May 10; Sp. p. 1843; Gaz. vol. 154; p. 321.
Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Filler for siphon-bottles. No. 962,027; June 21; Sp. p. 3717; Gaz. vol. 155; p. 653.
Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Rotary filter. No. 973,791; Oct. 25; Sp. p. 4986; Gaz. vol. 159; p. 867.
Kennedy, J. W., *et al.* (See Richey, Albert C., assignor.)
Kennedy, James E. (See Baney, Frank E., assignor.)
Kennedy, John A., Netawaka, Kans. Desk. No. 947,734; Jan. 25; Sp. p. 6043; Gaz. vol. 150; p. 1007.
Kennedy, John L., Washington, D. C. Pillow. No. 958,502; May 17; Sp. p. 4565; Gaz. vol. 154; p. 749.
Kennedy, Joseph, New York, N. Y. Toggle-bolt. No. 978,380; Dec. 13; Sp. p. 2082; Gaz. vol. 161; p. 363.
Kennedy, Joseph E., New York, N. Y. Combined ball and tube mill. No. 953,092; Mar. 29; Sp. p. 5406; Gaz. vol. 152; p. 990.
Kennedy, Julian, Pittsburg, Pa. Tire-rolling mill. No. 949,279; Feb. 15; Sp. p. 3138; Gaz. vol. 151; p. 553.
Kennedy, Julian, Pittsburg, Pa. Blast-furnace-cooling apparatus. No. 970,376; Sept. 13; Sp. p. 2626; Gaz. vol. 158; p. 442.
Kennedy, Michael A., Toronto, Ontario, Canada. Tire-tread for motor-vehicles. No. 979,008; Dec. 20; Sp. p. 3435; Gaz. vol. 161; p. 603.
Kennedy, Michael R., Dansville, assignor to The National Straw Pulp Company, New York, N. Y. Extracting fibers from vegetable tissues. No. 951,317; Mar. 8; Sp. p. 1744; Gaz. vol. 152; p. 306.
Kennedy, Oliver J. (See Sweeney and Kennedy.)
Kennedy, Oliver J., San Diego, assignor of one-half to P. W. Sweeney, Los Angeles, Cal. Sprinkling-pipe. No. 978,597; Dec. 13; Sp. p. 2569; Gaz. vol. 161; p. 438.
Kennedy Optical Company. (See Moe, Olav, assignor.)
Kennedy, Patrick, New York, N. Y. Generator suspension for train-lighting systems. No. 949,934; Feb. 22; Sp. p. 4539; Gaz. vol. 151; p. 810.
Kennedy, Patrick, assignor to Consolidated Railway Electric Lighting and Equipment Company, New York, N. Y. Mechanical construction of storage-battery cells. No. 945,397; Jan. 4; Sp. p. 851; Gaz. vol. 150; p. 132.
Kennedy, Samuel R., Philadelphia, Pa. Treating milk. No. 970,718; Sept. 20; Sp. p. 3388; Gaz. vol. 158; p. 581.
Kennedy, Samuel R., Philadelphia, Pa. Treating milk. No. 970,719; Sept. 20; Sp. p. 3388; Gaz. vol. 158; p. 581.
Kennedy, Thomas H., and F. J. Heckel, Bradford, Pa.; said Heckel assignor to said Kennedy. Separating the products of the destructive distillation of wood. No. 969,635; Sept. 6; Sp. p. 1031; Gaz. vol. 158; p. 165.
Kennedy, Thomas J., Pittsburg, Pa. Folding umbrella. No. 961,700; June 14; Sp. p. 2999; Gaz. vol. 155; p. 520.
Kennedy, Walter, Bellevue, Pa. Blast-furnace-charging apparatus. No. 955,885; Apr. 26; Sp. p. 4770; Gaz. vol. 153; p. 844.
Kennedy, William. (See Morris and Kennedy.)
Kennedy, William Q., Paterson, N. J. Vehicle-wheel. No. 977,195; Nov. 29; Sp. p. 6901; Gaz. vol. 160; p. 1172.
Kennedy, William T., and G. C. Pettit, Lonerock, Iowa. Adjustable door-vise. No. 973,942; Oct. 25; Sp. p. 5299; Gaz. vol. 159; p. 920.
Kennel, John J., Trenton, Ohio. Silo-feeder. No. 963,583; July 5; Sp. p. 1250; Gaz. vol. 156; p. 192.
Kennett, Ira W., Marion, Ind. Display-rack. No. 951,081; Mar. 1; Sp. p. 1249; Gaz. vol. 152; p. 205.
Kenney, David T., North Plainfield, N. J., assignor, by mesne assignments, to The Vacuum Cleaner Company. Apparatus for removing dust. No. 963,049; July 5; Sp. p. 47; Gaz. vol. 156; p. 9.
Kenney, Leo E., North Plainfield, N. J. Lavatory. No. 954,680; Apr. 12; Sp. p. 2114; Gaz. vol. 153; p. 371.
Kenney, Leonard F., Avondale, Ala., assignor of one-third to O. E. Heath. Spring-tire. No. 949,903; Feb. 22; Sp. p. 4481; Gaz. vol. 151; p. 800.
Kenney, Richard M., Clinton, Okla. Double rake. No. 972,539; Oct. 11; Sp. p. 2234; Gaz. vol. 159; p. 386.
Kenney, William F., Providence, R. I. Frictional lock-nut. No. 954,304; Apr. 5; Sp. p. 1299; Gaz. vol. 153; p. 215.
Kennington, George B., assignor to Golden-Anderson Valve Specialty Company, Pittsburg, Pa. Valve. No. 948,452; Feb. 8; Sp. p. 1409; Gaz. vol. 151; p. 251.
Kenny, John, assignor to John Simmons Company, New York, N. Y. Joint for tubes. No. 959,546. May 31; Sp. p. 6762; Gaz. vol. 154; p. 1150.
Kenoyer, Francis M., Sunrise, Nebr. Pipe-grip. No. 963,584; July 5; Sp. p. 1251; Gaz. vol. 156; p. 192.
Kenoyer, Fredrick, Indianapolis, Ind. Machine for making broom-covers. No. 953,039; Mar. 29; Sp. p. 5273; Gaz. vol. 152; p. 972.
Kent, Aaron, Pittsburg, Pa. Horseshoe and antislipping attachment. No. 977,882; Dec. 6; Sp. p. 1003; Gaz. vol. 161; p. 158.
Kent, Arthur A. (See McQuoion, Thomas H., assignor.)
Kent, Arthur A., Philadelphia, Pa. Electric contact device. No. 978,030; Dec. 6; Sp. p. 1306; Gaz. vol. 161; p. 209.
Kent, Arthur A., Philadelphia, Pa. Massage-machine. No. 978,031; Dec. 6; Sp. p. 1312; Gaz. vol. 161; p. 210.
Kent, Arthur G., Rochester, assignor to S. W. Kent, Jordan, N. Y. Caps for bottles and vessels. No. 955,808; Apr. 19; Sp. p. 4559; Gaz. vol. 153; p. 788.
Kent, Charles, Pevensey, Ontario, Canada. Automatic jack for engine-boilers. No. 958,928; May 24; Sp. p. 5485; Gaz. vol. 154; p. 920.
Kent, Charles V. (See Gardner, Chase, and Kent.)
Kent, Eleanor. (See Chance and Kent.)
Kent, Henry W. (See Smith and Kent.)
Kent, Henry W., Milwaukee, Wis., and E. H. Lichtenberg, assignors to Kent Ore Reduction Company, Chicago, Ill. Ore-roasting furnace. No. 947,337; Jan. 25; Sp. p. 5188; Gaz. vol. 150; p. 875.
Kent, Joseph C. (See Ekströmer, Melcher, assignor.)
Kent Ore Reduction Company. (See Kent and Lichtenberg, assignors.)
Kent Ore Reduction Company. (See Smith and Kent, assignors.)
Kent, Robert S., Brooklyn, N. Y. Kiln for revivifying char. No. 972,002; Oct. 4; Sp. p. 1086; Gaz. vol. 159; p. 182.
Kent, Roscoe, assignor to The Radio Telephone Company, New York, N. Y. Arc mechanism for space signaling. No. 966,560; Aug. 9; Sp. p. 1571; Gaz. vol. 157; p. 267.
Kent, Seymour W. (See Kent, Arthur G., assignor.)
Kentucky Hemp Brake Co. (See Poindexter, John W., assignor.)
Kenworthy, James A., Oakland, Cal. Automatic air-pump No. 967,199; Aug. 16; Sp. p. 2947; Gaz. vol. 157; p. 509.
Kenworthy, Thomas. (See Shufflebottom and Kenworthy.)
Keny, William L., Marion, assignor of one-half to G. Jaeger, Columbus, Ohio. Hydraulic cement-block-making machine. No. 960,953; June 7; Sp. p. 1425; Gaz. vol. 155; p. 240.
Kenyeres, Samuel, assignor of one-half to J. V. Takacs, Glassport, Pa. Rail-joint. No. 962,028; June 21; Sp. p. 3718; Gaz. vol. 155; p. 653.
Kenyon, Bertrand P., assignor to Diamond Steel Truck Company, Grand Rapids, Mich. Furniture-caster. No. 972,871; Oct. 18; Sp. p. 2966; Gaz. vol. 159; p. 525.
Kenyon, Bertrand P., assignor to Diamond Steel Truck Company, Grand Rapids, Mich. Caster-socket. No. 973,514; Oct. 25; Sp. p. 4413; Gaz. vol. 159; p. 771.
Kenyon, Bertrand P., assignor to Diamond Steel Truck Company, Grand Rapids, Mich. Tubular axle for casters. No. 973,515; Oct. 25; Sp. p. 4414; Gaz. vol. 159; p. 771.
Kenyon, Clayton L., Tama, Iowa. Pump-handle. No. 960,954; June 7; Sp. p. 1428; Gaz. vol. 155; p. 240.
Kenyon, James A. (See Gray and Kenyon.)
Kenyon, Roy L., La Crosse, Wis. Boat-canopy. No. 974,072; Oct. 25; Sp. p. 5569; Gaz. vol. 159; p. 965.
Kenyon, William J. C. (See Stolp, Samuel S., assignor.)
Kephart, James, Webster City, Iowa. Hot-water heater and circulator. No. 974,890; Nov. 8; Sp. p. 1832; Gaz. vol. 160; p. 305.
Kepler, Irwin F., Akron, Ohio. Spark-plug. No. 964,028; July 12; Sp. p. 2210; Gaz. vol. 156; p. 364.
Keppel & Company. (See Keppel, Richard J., assignor.)
Keppel, Richard J., Philadelphia, assignor to Keppel & Company, Chester, Pa. China-closet. No. 978,305; Dec. 13; Sp. p. 1928; Gaz. vol. 161; p. 337.
Keppler, Theodore L., Brookline, assignor to The American Sugar Refining Company, Boston, Mass. Portable scale. No. 978,306; Dec. 13; Sp. p. 1930; Gaz. vol. 161; p. 337.
Kepplinger, George J., Dwight, Ill. Floor-dressing machine. No. 958,929; May 24; Sp. p. 5486; Gaz. vol. 154; p. 920.
Kepplinger, George J., Dwight, Ill. Floor-scraper. No. 977,526; Dec. 6; Sp. p. 255; Gaz. vol. 161; p. 37.
Keran, William W., Camargo, Ill. Feed-regulator for grain-separators. No. 968,364; Aug. 23; Sp. p. 5384; Gaz. vol. 157; p. 929.
Kerbaugh, Arthur L., Allentown, Pa. Globe-valve. No. 974,498; Nov. 1; Sp. p. 974; Gaz. vol. 160; p. 144.
Kercher, Leroy, Roann, Ind. Excavating and loading machine. No. 971,540; Oct. 4; Sp. p. 59; Gaz. vol. 159; p. 13.
Kercheveal, John A., assignor to E. Harris, Cumberland, Md. Rail chair and fastener. No. 946,054; Jan. 11; Sp. p. 2316; Gaz. vol. 150; p. 385.
Kerfoot, James, Antwerp, Belgium. Apparatus for heating feed-water by exhaust-steam from steam-engines. No. 957,688; May 10; Sp. p. 2524; Gaz. vol. 154; p. 436.
Kerigan, Lewis J., and P. J. Lawler, Breda, Iowa. Post-hole-digging machine. No. 969,062; Aug. 30; Sp. p. 6857; Gaz. vol. 157; p. 1193.
Kerin, Thomas. (See Griswold and Kerin.)
Kerkow, Emma, administratrix. (See Kerkow, Gustav C.)
Kerkow, Gustav C., deceased, (E. Kerkow, administratrix,) assignor of one-half to J. Gumb, Fremont, Nebr. Attachment for beer-cases. No. 970,237; Sept. 13; Sp. p. 2351; Gaz. vol. 158; p. 396.
Kern, Anthony, *et al.* (See Steinberger, Edward J., assignor.)
Kern, Charles, and H. Hershenson, St. Louis, Mo. Necktie-holder. No. 967,391; Aug. 16; Sp. p. 3343; Gaz. vol. 157; p. 577.

Alphabetical list of patentees—Continued.

Kern, Edward F., Knoxville, Tenn., assignor of one-half to P. S. Brown, New York, N. Y. Electrolyte and electro-depositing copper. No. 946,903; Jan. 18; Sp. p. 4269; Gaz. vol. 150; p. 701.

Kern, Edward F., Knoxville, Tenn., assignor of one-half to P. S. Brown, New York, N. Y. Making aluminum fluosilicate. No. 963,156; July 5; Sp. p. 331; Gaz. vol. 156; p. 47.

Kern, Edward F., Knoxville, Tenn., assignor of one-half to P. S. Brown, New York, N. Y. Electrolyte and electro-depositing zinc. No. 967,200; Aug. 16; Sp. p. 2949; Gaz. vol. 157; p. 510.

Kern, George, Peru, assignor to The Western Clock Manufacturing Company, La Salle, Ill. Stem winding and setting mechanism for watches. No. 955,336; Apr. 19; Sp. p. 3548; Gaz. vol. 153; p. 627.

Kern, George, Peru, assignor to The Western Clock Manufacturing Company, La Salle, Ill. Alarm-clock. No. 958,930; May 24; Sp. p. 5488; Gaz. vol. 154; p. 921.

Kern, Michael, Chicago, Ill. Amusement device. No. 961,239; June 14; Sp. p. 2027; Gaz. vol. 155; p. 365.

Keroff, Alexander, Las Animas, Colo. Hair-waver. No. 955,271; Apr. 19; Sp. p. 3402; Gaz. vol. 153; p. 605.

Keroff, Alexander, Kansas City, Kans. Envelop. No. 965,197; July 26; Sp. p. 4743; Gaz. vol. 156; p. 820.

Kerogas Company. (See Wiggins, Edward J., assignor.)

Kerr, Edward, and J. Smith, Pittsburg, Pa. Mold for hollow articles. No. 971,045; Sept. 27; Sp. p. 4064; Gaz. vol. 158; p. 719.

Kerr, Ernest N., Rock Island, Ill. Exposure attachment for photographic-printing machines. No. 952,334; Mar. 15; Sp. p. 3780; Gaz. vol. 152; p. 676.

Kerr, George W., West Springfield, Mass., assignor to C. A. Mezger, Incorporated, New York, N. Y. Windshield for self-propelled vehicles. (Reissue.) No. 13,086; Mar. 1; Sp. p. 1285; Gaz. vol. 152; p. 211.

Kerr, James G., London, Ontario, Canada. Repeating mechanism for telegraph-circuits. No. 950,047; Feb. 22; Sp. p. 4837; Gaz. vol. 151; p. 851.

Kerr, Mathew M., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Impression-tray for dentistry. No. 957,563; May 10; Sp. p. 2273; Gaz. vol. 154; p. 393.

Kersey, Otis A., Pulaski, Tenn. Cooler. No. 958,931; May 24; Sp. p. 5490; Gaz. vol. 154; p. 921.

Kerstetter, Davis J., Green Ridge, Mo. Vehicle-body. No. 970,238; Sept. 13; Sp. p. 2353; Gaz. vol. 158; p. 396.

Kertscher, Herman, New York, N. Y. Converting plain-grained boards into quartered-grained boards. No. 947,001; Jan. 18; Sp. p. 4453; Gaz. vol. 150; p. 734.

Kerwick, Morgan, Cincinnati, Ohio. Receptacle. No. 972,456; Oct. 11; Sp. p. 2030; Gaz. vol. 159; p. 356.

Kesberger, Albert, Burdette, S. D. Nut-lock. No. 974,073; Oct. 25; Sp. p. 5570; Gaz. vol. 159; p. 965.

Kesling, Granville, Logansport, Ind. Pipe and tile mold. No. 950,567; Mar. 1; Sp. p. 224; Gaz. vol. 152; p. 37.

Kessel, Joseph W., Brooklyn, N. Y. Clip-cap. No. 955,517; Apr. 19; Sp. p. 3929; Gaz. vol. 153; p. 689.

Kessler, Alexander, Jr., Windom, Mo. Tire. No. 959,353; May 24; Sp. p. 6346; Gaz. vol. 154; p. 1061.

Kessler, Benjamin F., Mount Carmel, Pa. Contact device for electrically-wound mechanisms. No. 947,821; Feb. 1; Sp. p. 71; Gaz. vol. 151; p. 15.

Kessler, George. (See Schroeder and Kessler.)

Kessler, John B., *et al.* (See Boddy, George A., assignor.)

Kessler, Louis, Chicago, Ill. Draw-off device for explosive liquids. No. 962,846; June 28; Sp. p. 5493; Gaz. vol. 155; p. 961.

Kessler, Louis, assignor to J. S. Beaudry, Chicago, Ill. Storage-tank for explosive liquids. No. 973,440; Oct. 18; Sp. p. 4243; Gaz. vol. 159; p. 722.

Kessler, Philip A., Chicago, Ill. Cottage or tent-house. No. 968,481; Aug. 23; Sp. p. 5610; Gaz. vol. 157; p. 969.

Kester, Alfred F., Freeland, Pa. Lifting-jack. No. 953,531; Mar. 29; Sp. p. 6365; Gaz. vol. 152; p. 1139.

Kester, Malcom R., Minocqua, Wis. Lap-joint. No. 954,520; Apr. 12; Sp. p. 1761; Gaz. vol. 153; p. 316.

Kestner, Alfred F., *et al.* (See Rager, Reuben M., assignor.)

Kestner Evaporator Company. (See Kestner, Paul, assignor.)

Kestner Evaporator Company. (See Kestner, Paul, assignor.) (Reissue.)

Kestner Evaporator Company. (See Morris, Anthony S., assignor.)

Kestner, Paul, Lille, France. Centrifugal fan. No. 949,150; Feb. 15; Sp. p. 2886; Gaz. vol. 151; p. 511.

Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Apparatus for concentrating liquids. (Reissue.) No. 13,117; May 24; Sp. p. 6505; Gaz. vol. 154; p. 1088.

Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporator. No. 965,388; July 26; Sp. p. 5152; Gaz. vol. 156; p. 884.

Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Concentrating liquids. No. 965,822; July 26; Sp. p. 6103; Gaz. vol. 156; p. 1036.

Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Apparatus for concentrating liquids. No. 971,383; Sept. 27; Sp. p. 4749; Gaz. vol. 158; p. 829.

Ketcham, Asa C. (See Overton and Ketcham.)

Ketcham, Joseph R. (See Richter, Herman F., assignor.)

Ketcheson, John H., assignor to United States Fibre Stopper Company, St. Louis, Mo. Pulp stopper or the like. No. 959,225; May 24; Sp. p. 6089; Gaz. vol. 154; p. 1018.

Ketcheson, John H., and R. W. Goeb, assignors to United States Fibre Stopper Company, St. Louis, Mo. Apparatus for impregnating porous articles. No. 970,509; Sept. 20; Sp. p. 2908; Gaz. vol. 158; p. 508.

Ketchum, Ernest C., Boston, Mass. Thrust-bearing. No. 961,140; June 14; Sp. p. 1811; Gaz. vol. 155; p. 329.

Ketchum, Ernest C., Boston, Mass. Brush-holder for dynamos. No. 966,839; Aug. 9; Sp. p. 2186; Gaz. vol. 157; p. 360.

Ketchum, Ernest C., Boston, Mass. Automatic mercury-dropper. No. 966,840; Aug. 9; Sp. p. 2190; Gaz. vol. 157; p. 360.

Ketelsen, Andrew J., Saginaw, Mich. Sanitary automatic faucet. No. 961,356; June 14; Sp. p. 2303; Gaz. vol. 155; p. 407.

Ketelsen, Andrew J., Saginaw, Mich. Step-ladder. No. 961,357; June 14; Sp. p. 2304; Gaz. vol. 155; p. 407.

Ketelsen, Andrew J., Saginaw, Mich. Refining wooden faucets. No. 968,770; Aug. 30; Sp. p. 6276; Gaz. vol. 157; p. 1095.

Ketterer, Alvin N., St. Joseph, Mo. Bottle-labeling machine. No. 954,635; Apr. 12; Sp. p. 2012; Gaz. vol. 153; p. 355.

Ketterer, Eugen, Essen-on-the-Ruhr, Germany. Fluid-operated apparatus. No. 959,547; May 31; Sp. p. 6763; Gaz. vol. 154; p. 1151.

Kettering, Charles F., assignor to The National Cash Register Company, Dayton, Ohio. Adding and subtracting machine. No. 959,059; May 24; Sp. p. 5730; Gaz. vol. 154; p. 963.

Kettering, Charles F., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Electric driving device for registering-machines. No. 959,548; May 31; Sp. p. 6765; Gaz. vol. 154; p. 1151.

Kettering, Charles F., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Store-service credit-system apparatus. No. 975,533; Nov. 15; Sp. p. 3254; Gaz. vol. 160; p. 553.

Kettering, Charles F., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Driving device for registering machines. No. 976,577; Nov. 22; Sp. p. 5521; Gaz. vol. 160; p. 933.

Ketterlinus Lithographic Manufacturing Company. (See Wiederseim, Theodore E., Jr., assignor.)

Ketterman, Sarah A. (See Laney, William S., assignor.)

Kettles, Charles H., Joliet, Ill. Sign. No. 953,339; Mar. 29; Sp. p. 5934; Gaz. vol. 152; p. 1071.

Keuffel & Esser Company, The. (See Ferber, Philip, assignor.)

Keuffel & Esser Company, The. (See Suleder, Jacob, assignor.)

Key, George F. (See Hawkins and Key.)

Key, Isaac, Fowlerton, Ind. Pan-lifter. No. 968,956; Aug. 30; Sp. p. 6644; Gaz. vol. 157; p. 1157.

Key, Isaac, Fowlerton, Ind. Lifting-jack. No. 970,239; Sept. 13; Sp. p. 2354; Gaz. vol. 158; p. 397.

Key, James E., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Lathe. No. 967,201; Aug. 16; Sp. p. 2950; Gaz. vol. 157; p. 510.

Keyes, Atwood B., Henniker, N. H. Starting mechanism for gas-engines. No. 964,649; July 19; Sp. p. 3530; Gaz. vol. 156; p. 604.

Keyes, Frank E., New York, N. Y. Feed-water purifier. No. 952,620; Mar. 22; Sp. p. 4394; Gaz. vol. 152; p. 802.

Keyhoe, Harry P., and E. Handley, Ottumwa, Iowa. Molding-machine. No. 960,177; May 31; Sp. p. 8121; Gaz. vol. 154; p. 1365.

Keymer, Philip, Cleveland, Ohio. Keel-block. No. 965,302; July 26; Sp. p. 4966; Gaz. vol. 156; p. 855.

Keys, Walter W., Yonkers, N. Y. Hose-coupling. No. 959,226; May 24; Sp. p. 6090; Gaz. vol. 154; p. 1018.

Keyser, George, assignor to J. W. Hepworth, Philadelphia, Pa. Machine for uniting knit fabrics. No. 949,280; Feb. 15; Sp. p. 3140; Gaz. vol. 151; p. 554.

Keystone Driller Co., The. (See Downie, Robert M., assignor.)

Keystone Furnace Construction Company. (See Knox, Luther L., assignor.)

Keystone Iron Works. (See Carr and Livingston, assignors.)

Keystone Novelty Company. (See Malick, Henry, assignor.)

Keystone Steel & Wire Company. (See Sommer, Joseph W., assignor.)

Keystone Trading Company. (See Darling, James D., assignor.)

Keystone Watch Case Company, The. (See Ebelhare, William H., assignor.)

Keystone Watch Case Company, The. (See Groff, Howard M., assignor.)

Keystone Watch Case Company, The. (See Levy, Bernard, assignor.)

Alphabetical list of patentees—Continued.

Keystone Watch Case Company, The. (See Mehl, Walter B., assignor.)
Keyt, Marshall H., Chicago, Ill. Apparatus for removing tarnish from metals. No. 959,227; May 24; Sp. p. 6092; Gaz. vol. 154; p. 1018.
Khuen, Richard, Pittsburg, Pa., and A. Reichmann, Chicago, Ill., assignors to American Bridge Company, Pittsburg, Pa. Turn-table center. No. 945,723; Jan. 4; Sp. p. 1553; Gaz. vol. 150; p. 240.
Kiblinger, Robert P., Mineral, Va. Railway-switch. No. 959,549; May 31; Sp. p. 6773; Gaz. vol. 154; p. 1152.
Kicklighter, Charles H., Newberry, S. C. Exciting-alternator. No. 955,171; Apr. 19; Sp. p. 3176; Gaz. vol. 153; p. 570.
Kidder, George C., Salt Lake City, Utah. Separating-screen. No. 951,082; Mar. 1; Sp. p. 1251; Gaz. vol. 152; p. 205.
Kidder, George C., Salt Lake City, Utah. Ore concentrator or separator. No. 974,395; Nov. 1; Sp. p. 707; Gaz. vol. 160; p. 107.
Kidder, Melvin J. (See Kingsbury and Kidder.)
Kidder Press Company. (See Dean, Edmund W., assignor.)
Kidder Press Company. (See Mason, Robert, assignor.)
Kidder, Richard E., Worcester, Mass. Die-press. No. 967,526; Aug. 16; Sp. p. 3620; Gaz. vol. 157; p. 621.
Kidney, Josiah R., assignor to G. W. Goff, East Hampton, Conn. Buckle. No. 947,970; Feb. 1; Sp. p. 403; Gaz. vol. 151; p. 65.
Kidney, Josiah R., assignor to The Starr Bros. Bell Co., East Hampton, Conn. Bell. No. 950,396; Feb. 22; Sp. p. 5523; Gaz. vol. 151; p. 967.
Kidwell, George P., Washington, D. C. Trap. No. 945,099; Jan. 4; Sp. p. 194; Gaz. vol. 150; p. 33.
Kidwell, James A., *et al.* (See Stewart, McElmer, assignor.)
Kidwell, Miles L., *et al.* (See Stewart, McElmer, assignor.)
Kieckhefer, Alfred J., Milwaukee, Wis., assignor to National Enameling and Stamping Company. Dinner-pail. No. 945,724; Jan. 4; Sp. p. 1554; Gaz. vol. 150; p. 240.
Kiefer, Adolph. (See Weber, George, assignor.)
Kieffer, Jacob F., Plimpton, Ohio. Brake-operating mechanism. No. 968,957; Aug. 30; Sp. p. 6645; Gaz. vol. 157; p. 1157.
Kieffer, John H., Allentown, Pa. Horseshoe. No. 967,021; Aug. 9; Sp. p. 2570; Gaz. vol. 157; p. 421.
Kieffer, Leslie E., Sklatook, Okla. Jointer for plows. No. 951,005; Mar. 1; Sp. p. 1119; Gaz. vol. 152; p. 181.
Kiely, Francis, Los Angeles, Cal., assignor of one-fourth to E. E. Sellers, Denver, Colo., and one-fourth to F. A. Sellers, Los Angeles, Cal. Package-filler. No. 969,376; Sept. 6; Sp. p. 489; Gaz. vol. 158; p. 78.
Kiely, James J., Chicago, Ill. Air-compressor. No. 975,136; Nov. 8; Sp. p. 2400; Gaz. vol. 160; p. 389.
Kiena, Rudolph A., Stapleton, N. Y. Faucet. No. 969,108; Aug. 30; Sp. p. 6953; Gaz. vol. 157; p. 1210.
Kiendl, Robert J. (See Hengerer and Kiendl.)
Kier, Harry E., Colorado Springs, Colo. Suction-filter. No. 978,381; Dec. 13; Sp. p. 2083; Gaz. vol. 161; p. 362.
Kiesel, William F., Jr., Altoona, Pa. Trap-door for vestibule-cars. No. 956,978; May 3; Sp. p. 1050; Gaz. vol. 154; p. 165.
Kiesel, William F., Jr., Altoona, Pa. Steam-regulating valve. No. 961,300; June 14; Sp. p. 2165; Gaz. vol. 155; p. 387.
Kiesel, William F., Jr., Altoona, Pa. Car-roof. No. 961,301; June 14; Sp. p. 2167; Gaz. vol. 155; p. 387.
Kieselhorst, Henry A., St. Louis, Mo. Safety-razor. No. 956,532; May 3; Sp. p. 51; Gaz. vol. 154; p. 11.
Kieser, Frederick J., assignor to Kieser-Richter Company, Chicago, Ill. Tobacco-pipe. No. 975,363; Nov. 8; Sp. p. 2880; Gaz. vol. 160; p. 465.
Kieser-Richter Company. (See Kieser, Frederick J., assignor.)
Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Shaft-packing. No. 951,374; Mar. 8; Sp. p. 1859; Gaz. vol. 152; p. 324.
Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Governing mechanism for elastic-fluid turbines. No. 957,888; May 17; Sp. p 2944; Gaz. vol. 154; p. 533.
Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Governing mechanism for elastic-fluid turbines. No. 957,889; May 17; Sp. p. 2949; Gaz. vol. 154; p. 533.
Kieserling, Richard, Sr., Cincinnati, Ohio. Tube-bending machine. No. 977,196; Nov. 29; Sp. p. 6902; Gaz. vol. 160; p. 1172.
Kiess, Christ, Seibert, W. Va. Valve stem or rod. No. 947,593; Jan. 25; Sp. p. 5780; Gaz. vol. 150; p. 960.
Kiester, James L. (See Yoho, O'Neil, and Keister.)
Kiewicz, John, Hyde Park, Mass., assignor to The Reece Buttonhole Machine Company, Boston, Mass. Thread cutting and clamping mechanism for sewing-machines. No. 952,010; Mar. 15; Sp. p. 3152; Gaz. vol. 152; p. 567.
Kihlgren, David, assignor to The Confectioners' Machinery & Manufacturing Company, Springfield, Mass. Cream-cooler. No. 978,458; Dec. 13; Sp. p. 2245; Gaz. vol. 161; p. 389.
Kilb, George J., Covington, and T. Ringenbach, Springlake, Ky. Feathering-machine. No. 966,561; Aug. 9; Sp. p. 1573; Gaz. vol. 157; p. 268.
Kilborn, Chauncey W., Rosenhayn, N. J. Pug-mill and stone-separator. No. 970,240; Sept. 13; Sp. p. 2356; Gaz. vol. 158; p. 397.
Kilbourn, Edward E., assignor to Kilbourn Manufacturing Corporation, New Brunswick, N. J. Tubular ribbed fabric. No. 953,669; Mar. 29; Sp. p. 6647; Gaz. vol. 152; p. 1185.
Kilbourn, Edward E., assignor to Kilbourn Manufacturing Corporation, New Brunswick, N. J. Knitting. No. 963,227; July 5; Sp. p. 506; Gaz. vol. 156; p. 71.
Kilbourn Manufacturing Corporation. (See Kilbourn, Edward E., assignor.)
Kilbourn, Washington H., Greenfield, Mass. Faucet. No. 955,272; Apr. 19; Sp. p. 3403; Gaz. vol. 153; p. 605.
Kilbourn, William D., Murray, Utah. Handling matte. No. 964,275; July 12; Sp. p. 2714; Gaz. vol. 156; p. 447.
Kilbourn, William D., Murray, Utah. Handling matte. No. 974,074; Oct. 25; Sp. p. 5570; Gaz. vol. 159; p. 965.
Kilbourne and Jacobs Manufacturing Company, The. (See Boggs, Edward B., assignor.)
Kilbourne and Jacobs Manufacturing Company, The. (See Stagg, Thomas H., assignor.)
Kilbourne and Jacobs Manufacturing Company, The. (See Stansill, Doty, and Hubbard, assignors.)
Kilbourne, Lyman B. (See Knight, Charles Y., assignor.)
Kilby, James T., Danville, Va. Pitman. No. 970,929; Sept. 20; Sp. p. 3824; Gaz. vol. 158; p. 652.
Kilby Manufacturing Company, The. (See Francis, John H., assignor.)
Kilduff, James, *et al.* (See Meyer, Eugene, assignor.)
Kilgore, Frederick O., Minneapolis, Minn. Gas-engine. No. 962,437; June 28; Sp. p. 4633; Gaz. vol. 155; p. 819.
Kilgour, William D., assignor to Lee & Underhill, New York, N. Y. Golf-club. No. 947,822; Feb. 1; Sp. p. 72; Gaz. vol. 151; p. 16.
Kilian, Amalie B. (See Kilian, Maximilian, assignor.)
Kilian, Maximilian, assignor to A. B. Kilian, Pittsburg, Pa. Mail-box. No. 951,090; Mar. 1; Sp. p. 1269; Gaz. vol. 152; p. 208.
Killars, John, Jr., North Adams, Mass. Take-up scale. No. 951,006; Mar. 1; Sp. p. 1120; Gaz. vol. 152; p. 181.
Killgore, Eugene P., Berkeley, and R. W. Bosworth, Oakland, Cal. Gas-burner. No. 975,253; Nov. 8; Sp. p. 2661; Gaz. vol. 160; p. 430.
Killian, James A., and G. M. Kennedy, Hamburg, Ark. Cloth cutting and measuring machine. No. 979,963; Dec. 27; Sp. p. 5497; Gaz. vol. 161; p. 950.
Killian, Martin, Elkton, Colo. Combined cane and camp-stool. No. 952,335; Mar. 15; Sp. p. 3784; Gaz. vol. 152; p. 676.
Killian, William J. (See Quinby, Harrison, assignor.)
Killing, Ewald, Davenport, Iowa. Molding-machine. No. 957,564; May 10; Sp. p. 2274; Gaz. vol. 154; p. 393.
Killing, Ewald, Davenport, Iowa. Jarring-machine. No. 966,691; Aug. 9; Sp. p. 1822; Gaz. vol. 157; p. 312.
Killman, Thomas A., assignor to American Toy Company, Nashville, Tenn. Walking toy. No. 950,536; Mar. 1; Sp. p. 159; Gaz. vol. 152; p. 27.
Killman, Thomas A., Liberty, assignor to C. Kehr, trustee, Knoxville, Tenn. Baling mechanism. No. 963,775; July 12; Sp. p. 1654; Gaz. vol. 156; p. 278.
Kilman, John J., assignor of one-half to J. R. McCown, Ferris, Tex. Chopping-machine. No. 948,510; Feb. 8; Sp. p. 1540; Gaz. vol. 151; p. 272.
Kilmarnock Textile Manufacturing Co. (See Fetterly, Charles L., assignor.)
Kilmer, Wellington, Hyde Park, Mass. Steam-turbine. No. 948,176; Feb. 1; Sp. p. 803; Gaz. vol. 151; p. 133.
Kilner, William R., Greenfield, Pa. Car-door hanger. No. 952,120; Mar. 15; Sp. p. 3354; Gaz. vol. 152; p. 604.
Kilpatrick, Robert L., assignor of one-fourth to S. A. Garrett and one-fourth to H. P. Garrett, Hempstead, Tex. Cultivator. No. 951,950; Mar. 15; Sp. p. 3034; Gaz. vol. 152; p. 549.
Kilpatrick, William J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 978,168; Dec. 13; Sp. p. 1631; Gaz. vol. 161; p. 288.
Kimball, Charles B., Pine River, Wis. Corn-husking machine. No. 978,169; Dec. 13; Sp. p. 1634; Gaz. vol. 161; p. 289.
Kimball, Charles H., Chicago, Ill. Joint-fastener. No. 960,340; June 7; Sp. p. 208; Gaz. vol. 155; p. 36.
Kimball, Earl C. (See Cork, William W., assignor.)
Kimball, Earl C., Naper, Nebr. Trace-buckle. No. 959,868; May 31; Sp. p. 7442; Gaz. vol. 154; p. 1259.
Kimball, Eleanor M., Magrath, Alberta, Canada. Milk-can. No. 953,844; Apr. 5; Sp. p. 325; Gaz. vol. 153; p. 58.
Kimball, Henry H. (See Hoelscher, Adolph G., assignor.)
Kimball, John A., Taylorville, Ill. Coupling or mortise bracket. No. 963,585; July 5; Sp. p. 1252; Gaz. vol. 156; p. 192.
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Subdivider for the bowls of centrifugal liquid-separators. No. 947,217; Jan. 18; Sp. p. 4868; Gaz. vol. 150; p. 803.

Kimball, Robert E., assignor of one-third to L. H. Webb and one-third to E. L. Thurston, Cleveland, Ohio. Grain-decorticating machine. No. 977,197; Nov. 29; Sp. p. 6904; Gaz. vol. 160; p. 1173.
Kimbell, John B., Cordele, Ga. Portable prison. No. 954,305; Apr. 5; Sp. p. 1299; Gaz. vol. 153; p. 215.
Kimbell, John H., Whitesburg, Ga. Bending-machine. No. 973,279; Oct. 18; Sp. p. 3899; Gaz. vol. 159; p. 667.
Kimberly-Clark Company. (See Thom, Peter R., assignor.)
Kimble, Frank C. (See Baker and Kimble.)
Kimbrell, Julius, Needles, Cal. Attachment for torpedo-tubes. No. 958,650; May 17; Sp. p. 4852; Gaz. vol. 154; p. 797.
Kimmel, Dwight M., Ravenna, Ohio. Draft-regulator. No. 954,032; Apr. 5; Sp. p. 701; Gaz. vol. 153; p. 123.
Kimmel, Gilford E., Rutland, Ind. Attachment for vehicle-wheels. No. 951,533; Mar. 8; Sp. p. 2181; Gaz. vol. 152; p. 378.
Kimmel, Harry J., Wenatchee, Wash. Mold for concrete walls. No. 953,532; Mar. 29; Sp. p. 6367; Gaz. vol. 152; p. 1139.
Kimmel, Samuel L., assignor of one-half to J. Fett, Bluffton, Ohio. Loss-preventing device. No. 974,499; Nov. 1; Sp. p. 975; Gaz. vol. 160; p. 145.
Kimmell, Frank E., Chicago, Ill. Signal-valve. No. 956,363; Apr. 26; Sp. p. 5806; Gaz. vol. 153; p. 1009.
Kimmons, J. H. (See Lucke, Charles Q., assignor.)
Kimpton, Herbert C. (See King and Kimpton.)
Kincaid, John, Vancouver, British Columbia, Canada. Fluid-pressure impact-engine. No. 962,511; June 28; Sp. p. 4794; Gaz. vol. 155; p. 844.
Kincaid, Thomas G., Connellsville, Pa. Lubricating device. No. 960,341; June 7; Sp. p. 209; Gaz. vol. 155; p. 36.
Kincaid, William D., *et al.* (See Tiner, John F., assignor.)
Kincaid, Willis M., Hiawatha, Kans. Washing-machine. No. 947,916; Feb. 1; Sp. p. 284; Gaz. vol. 151; p. 48.
Kincannon, Leo C., Seabright, Cal. Flying-machine. No. 951,615; Mar. 8; Sp. p. 2336; Gaz. vol. 152; p. 405.
Kindel, Albert S., French township, Adams county, Ind. Harrow. No. 979,312; Dec. 20; Sp. p. 4111; Gaz. vol. 161; p. 708.
Kindel, Arthur W. (See Kindel, George J. and A. W.)
Kindel Bed Company. (See Kindel, Charles J., assignor.)
Kindel, Charles J., Chicago, Ill. Settee-bed. No. 966,841; Aug. 9; Sp. p. 2194; Gaz. vol. 157; p. 360.
Kindel, Charles J., Chicago, Ill. Ottoman-bed. No. 978,032; Dec. 6; Sp. p. 1314; Gaz. vol. 161; p. 210.
Kindel, Charles J., Chicago, Ill., assignor to Kindel Bed Company, New York, N. Y. Davenport. No. 977,883; Dec. 6; Sp. p. 1005; Gaz. vol. 161; p. 159.
Kindel, George J. and A. W., Denver, Colo. Pneumatic cleaning system. No. 950,722; Mar. 1; Sp. p. 567; Gaz. vol. 152; p. 89.
Kindermans, Gustave, Vilvorde, Belgium. Bicycle-chain-adjusting means. No. 974,573; Nov. 1; Sp. p. 1146; Gaz. vol. 160; p. 173.
Kindlespire, Peter W., and J. R. Cannan, Wapakoneta, Ohio. Lock. No. 978,899; Dec. 20; Sp. p. 3173; Gaz. vol. 161; p. 563.
Kindrick, George R., Spray, N. C. Slubber, intermediate, and fine frame doff-governor. No. 970,060; Sept. 13; Sp. p. 1984; Gaz. vol. 158; p. 336.
Kindscherf, Carl, assignor to Continental Caoutchouc- & Gutta-Percha Campagnie, Hanover, Germany. Wheel for vehicles. No. 971,384; Sept. 27; Sp. p. 4752; Gaz. vol. 158; p. 830.
Kindwall, Abel M., Minot, N. D. Vehicle-spring. No. 960,178; May 31; Sp. p. 8123; Gaz. vol. 154; p. 1366.
Kine, John P., Walsenburg, Colo. Sickle-grinder. No. 971,449; Sept. 27; Sp. p. 4860; Gaz. vol. 158; p. 851.
Kinealy, John H. (See Hawley, Melville C., assignor.)
Kinealy, John H., Ferguson, Mo. Spray-head. No. 949,360; Feb. 15; Sp. p. 3321; Gaz. vol. 151; p. 582.
Kinealy, John H., Ferguson, Mo. Air-washing apparatus. No. 969,287; Sept. 6; Sp. p. 288; Gaz. vol. 158; p. 47.
Kinealy, John H., Ferguson, Mo. Air-purifying apparatus. No. 976,081; Nov. 15; Sp. p. 4348; Gaz. vol. 160; p. 738.
King, Adam C. (See Daniel, Paul, assignor.)
King, Arthur C., Islington, and F. Hamer, Hayes, England. Transmission of power from a prime mover to a load. No. 945,398; Jan. 4; Sp. p. 852; Gaz. vol. 150; p. 132.
King, Bert W., assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Scale. No. 973,669; Oct. 25; Sp. p. 4749; Gaz. vol. 159; p. 825.
King, Charles B. (See King, Barnhart, and King.)
King, Charles B., and H. J. Barnhart, assignors to The Marion Steam Shovel Company, Marion, Ohio. Ballast-unloader. No. 957,348; May 10; Sp. p. 1845; Gaz. vol. 154; p. 321.
King, Charles C. (See Hunt and King.)
King, Charles M., Washington, D. C., assignor to A. G. Spalding & Bros., New York, N. Y. Base-ball glove. No. 962,438; June 28; Sp. p. 4636; Gaz. vol. 155; p. 819.
King, Charles M., Washington, D. C., assignor to A. G. Spalding & Bros., New York, N. Y. Base-ball mitt. No. 963,006; June 28; Sp. p. 5793; Gaz. vol. 155; p. 1014.
King Cork & Seal Company, The. (See Baltzley, John H., Jr., assignor.)
King, Dean W., San Jose, Cal. Rear gun-sight. No. 978,382; Dec. 13; Sp. p. 2089; Gaz. vol. 161; p. 364.
King, Dwight D., assignor to The Rogers-Shear Company, Warren, Pa. Clip for corner-beads. No. 956,364; Apr. 26; Sp. p. 5809; Gaz. vol. 153; p. 1009.
King, Edward C., Charlottesville, Va. Fire-door opener. No. 973,051; Oct. 18; Sp. p. 3402; Gaz. vol. 159; p. 589.
King, Elmer E. (See Fifield, Frank, assignor.)
King, Eugene W., assignor to Semet-Solvay Company, Syracuse, N. Y. Heating arrangement for retort coke-ovens. No. 970,720; Sept. 20; Sp. p. 3389; Gaz. vol. 158; p. 581.
King, Ezra L., Buchanan, Tenn. Churn. No. 960,955; June 7; Sp. p. 1429; Gaz. vol. 155; p. 240.
King, Frederick W., Jacksonville, Fla. Bedstead attachment. No. 957,422; May 10; Sp. p. 1998; Gaz. vol. 154; p. 345.
King, Frederick W., Cleveland, Ohio. Electric drill. No. 966,217; Aug. 2; Sp. p. 807; Gaz. vol. 157; p. 127.
King, George, *et al.* (See Seely, John B., assignor.)
King, George W., H. J. Barnhart, and C. B. King, assignors to The Marion Steam Shovel Company, Marion, Ohio. Excavating-machine. No. 959,756; May 31; Sp. p. 7186; Gaz. vol. 154; p. 1220.
King & Hamilton Company. (See Gilman, John H., assignor.)
King, Henry A. (See Pochyla and King.)
King, Homer A., Colton, Cal. Automatic rotary engine. No. 953,206; Mar. 29; Sp. p. 5652; Gaz. vol. 152; p. 1027.
King, Howard G., Denver, Colo. Combined ore feeder, sampler, classifier, and separator. No. 946,759; Jan. 18; Sp. p. 3901; Gaz. vol. 150; p. 650.
King, Howard G., Denver, Colo. Ore-dressing machine. No. 971,046; Sept. 27; Sp. p. 4066; Gaz. vol. 158; p. 720.
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Folding-machine. No. 948,547; Feb. 8; Sp. p. 1612; Gaz. vol. 151; p. 283.
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Brick-machine. No. 953,670; Mar. 29; Sp. p. 6649; Gaz. vol. 152; p. 1185.
King, James, and H. C. Kimpton, Montclair, N. J. Lifting device. No. 979,313; Dec. 20; Sp. p. 4112; Gaz. vol. 161; p. 708.
King, James A., Three Rivers, Mich. Beet-harvester. No. 951,476; Mar. 8; Sp. p. 2067; Gaz. vol. 152; p. 358.
King, James B., W. E. Hughes, Clyde, Ohio, and F. W. Hall, Detroit, Mich. Mausoleum. No. 949,771; Feb. 22; Sp. p. 4160; Gaz. vol. 151; p. 752.
King, John A., Chicago, Ill. Grain-door. No. 951,281; Mar. 8; Sp. p. 1658; Gaz. vol. 152; p. 294.
King, John A., St. Maries, Idaho. Drift-bolt puller. No. 957,565; May 10; Sp. p. 2276; Gaz. vol. 154; p. 394.
King, John C., and T. J. Reed, Roda, Va. Trolley-line circuit-breaker. No. 953,207; Mar. 29; Sp. p. 5655; Gaz. vol. 152; p. 1027.
King, John F., and J. Neary, Kalamazoo, Mich. Suction-box. No. 957,217; May 10; Sp. p. 1549; Gaz. vol. 154; p. 274.
King, John F., and J. Neary, Kalamazoo, Mich. Suction-roll for paper-making machines. No. 976,185; Nov. 22; Sp. p. 4627; Gaz. vol. 160; p. 796.
King, John G., Burlington, N. C., assignor to Draper Company, Hopedale, Mass. Weft-replenishing loom. No. 972,872; Oct. 18; Sp. p. 2967; Gaz. vol. 159; p. 525.
King, Joseph, Keighley, England. Apparatus for the production of leno fabrics. No. 946,137; Jan. 11; Sp. p. 2469; Gaz. vol. 150; p. 412.
King, Joseph, Sr., Cincinnati, Ohio. Cigar-press. No. 953,671; Mar. 29; Sp. p. 6657; Gaz. vol. 152; p. 1186.
King, Julian, Tuxedo, Tex. Stalk-chopper. No. 972,197; Oct. 11; Sp. p. 1497; Gaz. vol. 159; p. 266.
King, Madison M., assignor to Burdick & Son, Albany, N. Y. Means for forming openings in castings. No. 947,159; Jan. 18; Sp. p. 4747; Gaz. vol. 150; p. 782.
King of All Stropper Company. (See Bestgen, John G., assignor.)
King, Phineas F., assignor to The Lannert-King Company, Cleveland, Ohio. Cotton-seed delinter. No. 974,574; Nov. 1; Sp. p. 1147; Gaz. vol. 160; p. 173.
King Powder Company, The. (See Peters and Lindsley, assignors.)
King, Robert O., Buffalo, N. Y. Method and apparatus for wrecking bodies sunk in water. No. 975,534; Nov. 15; Sp. p. 3259; Gaz. vol. 160; p. 553.
King, Roscoe W., Las Animas, Colo. Thermo-electrostat. No. 974,157; Nov. 1; Sp. p. 100; Gaz. vol. 160; p. 20.
King, Samuel, London, England. Apparatus for dressing or truing grindstones. No. 957,689; May 10; Sp. p. 2526; Gaz. vol. 154; p. 437.
King, Thomas F., Jr., Pawtucket, and D. G. Hall, Cranston, R. I.; said Hall assignor to said King. Policy-file. No. 979,314; Dec. 20; Sp. p. 4113; Gaz. vol. 161; p. 709.
King, Thomas J., Richmond, Va. Weeding or chopping hoe. No. 945,399; Jan. 4; Sp. p. 854; Gaz. vol. 150; p. 133.
King, Thomas J., Richmond, Va. Planter and spreader No. 977,884; Dec. 6; Sp. p. 1007; Gaz. vol. 161; p. 159.

Alphabetical list of patentees—Continued.

King, Victor L. (See Baker, King, and Parker.)
King, Walter, Brownstown, Ill. Penholder. No. 964,650; July 19; Sp. p. 3533; Gaz. vol. 156; p. 604.
King, William A., assignor of one-fourth to J. L. Earls, Tullahoma, one-fourth to J. L. Albers, and one-fourth to H. McDonald, Nashville, Tenn. Rail connection for movable railway structures. No. 955,809; Apr. 19; Sp. p. 4560; Gaz. vol. 153; p. 788.
King, William C., Campbell, assignor of one-half to T. A. Crow and one-half to L. A. Crow, San Jose, Cal. Disk harrow. No. 977,099; Nov. 29; Sp. p. 6681; Gaz. vol. 160; p. 1137.
King, William O., Mountain Home, Idaho. Ore-concentrator. No. 974,075; Oct. 25; Sp. p. 5572; Gaz. vol. 159; p. 966.
King, William R. (See Baumer, King, and Baumer.)
King, William S., assignor to Carter & Holmes, Chicago, Ill. Box. No. 949,904; Feb. 22; Sp. p. 4482; Gaz. vol. 151; p. 800.
King, Willis R., Newark, N. J., assignor to Hanson & Van Winkle Co. Electroplating apparatus. No. 948,056; Feb. 1; Sp. p. 583; Gaz. vol. 151; p. 93.
King, Wirt B., Fairfield, Iowa. Spring attachment for oil-cans. No. 962,902; June 28; Sp. p. 5601; Gaz. vol. 155; p. 980.
Kingham, Boaz, Tecumseh, Okla. Attachment for hay-presses. No. 970,930; Sept. 20; Sp. p. 3826; Gaz. vol. 158; p. 652.
Kingsbury, Albert, Pittsburg, Pa. Thrust-bearing. No. 947,242; Jan. 25; Sp. p. 4930; Gaz. vol. 150; p. 840.
Kingsbury, Albert, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilating means for dynamo-electric machines. No. 959,550; May 31; Sp. p. 6775; Gaz. vol. 154; p. 1152.
Kingsbury, George P., Scranton, Pa. Holder for erasing material. No. 961,141; June 14; Sp. p. 1812; Gaz. vol. 155; p. 329.
Kingsbury, Harry T., Keene, N. H. Toy dump-cart. No. 966,103; Aug. 2; Sp. p. 553; Gaz. vol. 157; p. 89.
Kingsbury, Harry T., Keene, N. H. Toy wheeled trap. No. 967,784; Aug. 16; Sp. p. 4132; Gaz. vol. 157; p. 708.
Kingsbury, Harry T., Keene, N. H. Toy truck-cart. No. 967,785; Aug. 16; Sp. p. 4132; Gaz. vol. 157; p. 708.
Kingsbury, Harry T., and M. J. Kidder, Keene, N. H.; said Kidder assignor to said Kingsbury. Automatic reversing motor toy. No. 963,715; July 5; Sp. p. 1512; Gaz. vol. 156; p. 235.
Kingsbury, Jere G., assignor to New York Adding Typewriter Company, Orange, N. J. Carrying mechanism for adders. No. 948,862; Feb. 8; Sp. p. 2283; Gaz. vol. 151; p. 388.
Kingsbury, John C., Dudley, Mass. Packing. No. 967,392; Aug. 16; Sp. p. 3344; Gaz. vol. 157; p. 577.
Kingsbury, William P., Port Arthur, Tex. Carbureter. No. 948,977; Feb. 8; Sp. p. 2515; Gaz. vol. 151; p. 427.
Kingsland, Allan B., Burlington, Vt. Oven-shelf. No. 977,408; Nov. 29; Sp. p. 7356; Gaz. vol. 160; p. 1244.
Kingsley, Earl J., J. Greene, and W. G. Sadleir, Salt Lake City, Utah. Police signal device. No. 976,578; Nov. 22; Sp. p. 5529; Gaz. vol. 160; p. 933.
Kingsley, Earl W., Los Angeles, Cal. Automobile windscreen. No. 976,373; Nov. 22; Sp. p. 5070; Gaz. vol. 160; p. 861.
Kingsley, Henry M., Washington, D. C. Drying and mixing device. No. 946,699; Jan. 18; Sp. p. 3764; Gaz. vol. 150; p. 630.
Kingston, Bera J., and J. H. Lane, assignors of one-third to L. Northrup, Jackson, Mich. Metallic casing for pneumatic tires. No. 975,693; Nov. 15; Sp. p. 3597; Gaz. vol. 160; p. 606.
Kingston, Frank L., Kokomo, Ind. Carbureter. No. 974,076; Oct. 25; Sp. p. 5573; Gaz. vol. 159; p. 966.
Kingston, Paul A., and B. Berg, Danville, Ill. Flexible universal joint. No. 955,595; Apr. 19; Sp. p. 4108; Gaz. vol. 153; p. 715.
Kinkead Manufacturing Company. (See Loggie, George W., assignor.)
Kinley Manufacturing Company, The. (See Bishop and Delano, assignors.)
Kinne, A. A. (See Walsh, Harry C. H., assignor.)
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Coupling-knuckle-pin retainer. No. 949,772; Feb. 22; Sp. p. 4164; Gaz. vol. 151; p. 753.
Kinne, Edmund P., Alliance, Ohio, assignor, by mesne assignments, to American Steel Foundries, New York, N. Y. Transom draft-rigging. No. 980,160; Dec. 27; Sp. p. 5950; Gaz. vol. 161; p. 1016.
Kinne, J. Smylie, *et al.* (See Knox, Charles P., assignor.)
Kinnear and Gager Manufacturing Company, The. (See Bierman, Albert D., assignor.)
Kinnear, William R., New Castle, Pa. Fusible packing for annealing and other like apparatus. No. 958,409; May 17; Sp. p. 4386; Gaz. vol. 154; p. 716.
Kinnear, William R., New Castle, Pa. Metal sash construction. No. 971,011; Sept. 20; Sp. p. 3957; Gaz. vol. 158; p. 679.
Kinnear, William R., New Castle, Pa. Metallic pole. No. 973,670; Oct. 25; Sp. p. 4751; Gaz. vol. 159; p. 825.
Kinney, Amos P., Quincy, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Continuous-card indicator. No. 951,131; Mar. 8; Sp. p. 1357; Gaz. vol. 152; p. 247.
Kinney, Charles S., St. Louis, Mo. Apparatus for timing and removing eggs from boilers. No. 963,050; July 5; Sp. p. 48; Gaz. vol. 156; p. 10.
Kinney, Frank F., assignor to Minerallac Electric Company, Chicago, Ill. Register mechanism for indicating instruments. No. 961,358; June 14; Sp. p. 2305; Gaz. vol. 155; p. 407.
Kinney, Howard K. (See Beydler and Kinney.)
Kinney, Israel, Paris, Ontario, Canada. Curve-scriber. No. 963,445; July 5; Sp. p. 968; Gaz. vol. 156; p. 145.
Kinney, Israel, assignor of one-half to L. A. La Pierre, Paris, Ontario, Canada. Pocket-knife. No. 947,823; Feb. 1; Sp. p. 74; Gaz. vol. 151; p. 16.
Kinney, John T., *et al.* (See Young, Lucious W., assignor.)
Kinney, Justus R., Dorchester, Mass. Rotary pump. No. No. 951,735; Mar. 8; Sp. p. 2567; Gaz. vol. 152; p. 445.
Kinney, Justus R., Dorchester, Mass. Rotary pump. No. 951,762; Mar. 8; Sp. p. 2637; Gaz. vol. 152; p. 456.
Kinney Justus R., Dorchester, Mass. Rotary pump. No. 958,136; May 17; Sp. p. 3683; Gaz. vol. 154; p. 621.
Kinney, Thomas E., Waverly, Ohio. Automatic warning-whistle. No. 977,017; Nov. 29; Sp. p. 6507; Gaz. vol. 160; p. 1110.
Kinney, William J., *et al.* (See Young, Lucious W., assignor.)
Kinnison, Hallah C., Dallas, Tex. Valve. No. 956,365; Apr. 26; Sp. p. 5810; Gaz. vol. 153; p. 1010.
Kinowski, Anthony, Scranton, Pa. Match-striker. No. 964,276; July 12; Sp. p. 2717; Gaz. vol. 156; p. 448.
Kinsel, David W., and P. Wogoman, Brookville, Ohio. Combination-tool. No. 965,198; July 26; Sp. p. 4744; Gaz. vol. 156; p. 821.
Kinsella, William P., Brooklyn, N. Y. Decanting device. No. 949,019; Feb. 15; Sp. p. 2622; Gaz. vol. 151; p. 468.
Kinser, George L., Aurora, Ill. Head-gate for irrigation-ditches. No. 950,138; Feb. 22; Sp. p. 5008; Gaz. vol. 151; p. 880.
Kinser, William C., Omaha, Nebr. Churn. No. 970,061; Sept. 13; Sp. p. 1986; Gaz. vol. 158; p. 337.
Kinsey, Coroden K., Bucyrus, Ohio. Sieve-cloth cleaner. No. 961,414; June 14; Sp. p. 2404; Gaz. vol. 155; p. 425.
Kinsey, Daniel. (See Vuncannon, Eli, assignor.)
Kinsey, Dawson B., Toronto, Ontario, Canada. Keyless lock. No. 965,303; July 26; Sp. p. 4968; Gaz. vol. 156; p. 855.
Kinsey, Frank, Chicago, Ill. Key for rolling up collapsible tubes. No. 951,132; Mar. 8; Sp. p. 1361; Gaz. vol. 152; p. 247.
Kinsey, Frederick L., Buffalo, assignor of one-half to J. D. Brotherston, Derby, N. Y. Locking hat, coat, and umbrella rack. No. 978,033; Dec. 6; Sp. p. 1316; Gaz. vol. 161; p. 210.
Kinsey, Fredrick L., assignor of one-half to J. E. Thebaud, Buffalo, N. Y. Grinding and disintegrating machine. No. 978,034; Dec. 6; Sp. p. 1320; Gaz. vol. 161; p. 211.
Kinsey, Stephen C., Ogden, Utah. Registering mechanism. No. 972,198; Oct. 11; Sp. p. 1498; Gaz. vol. 159; p. 266.
Kinsley, Jason D., Lisbon, Iowa. Condiment-shaker. No. 964,433; July 12; Sp. p. 3018; Gaz. vol. 156; p. 498.
Kinsman Block System Company, The. (See Cozzens, Estwick, and Tiffany, assignors.)
Kintner, Charles J., New York, N. Y. Spacing device for use with turned-down collars. No. 977,100; Nov. 29; Sp. p. 6683; Gaz. vol. 160; p. 1137.
Kintner, Samuel M., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Railway-motor. No. 947,338; Jan. 25; Sp. p. 5193; Gaz. vol. 150; p. 875.
Kintner, Samuel M., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Insulating-bushing. No. 952,448; Mar. 22; Sp. p. 4003; Gaz. vol. 152; p. 742.
Kintner, Samuel M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 959,551; May 31; Sp. p. 6776; Gaz. vol. 154; p. 1152.
Kintner, Samuel M., Pittsburg, Pa., and G. B. Rosenblatt, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company. Fuse for electrical circuits. No. 959,552; May 31; Sp. p. 6779; Gaz. vol. 154; p. 1153.
Kinyon, Alonzo G., Greensboro, N. C. Cotton-picking machine. No. 968,856; Aug. 30; Sp. p. 6438; Gaz. vol. 157; p. 1122.
Kinyon, Robert D., Chicago, Ill. Painting appliance. No. 973,356; Oct. 18; Sp. p. 4059; Gaz. vol. 159; p. 695.
Kinzel, Edward, Albany, N. Y. Safety base-ball-shoe plate. No. 972,540; Oct. 11; Sp. p. 2236; Gaz. vol. 159; p. 386.
Kinzel, John E. (See Crowe and Kinzel.)
Kious, Absolem C., near Meridan, Kans. Sickle-holder. No. 950,291; Feb. 22; Sp. p. 5329; Gaz. vol. 151; p. 934.
Kipp, Burton E., assignor to The Sikes Company, Philadelphia, Pa. Upholstering device. No. 953,470; Mar. 29; Sp. p. 6222; Gaz. vol. 152; p. 1116.
Kipp, George E., Niverville, N. Y. Detachable wheel-rim. No. 972,541; Oct. 11; Sp. p. 2237; Gaz. vol. 159; p. 386.

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Kirby, Cornelius E., Youngstown, Ohio. Safety appliance for scaling flagpoles. No. 964,975; July 19; Sp. p. 4294; Gaz. vol. 156; p. 716.
Kirby Equipment Company. (See Woodman, George A., assignor.)
Kirby, Frank A., Detroit, Mich. Attachment for drilling, boring, and similar machines. No. 971,679; Oct. 4; Sp. p. 356; Gaz. vol. 159; p. 62.
Kirby, James A. (See Gamewell and Kirby.)
Kirby, John F. S., Belarra, Collarenebri East, New South Wales, Australia. Earth-excavator. No. 954,521; Apr. 12; Sp. p. 1763; Gaz. vol. 153; p. 316.
Kirk, Allen E. (See Scott, Lewis F., assignor.)
Kirk, Alva H., Minneapolis, Minn. Spring-tension device. No. 964,651; July 19; Sp. p. 3534; Gaz. vol. 156; p. 605.
Kirk, Carrol D., Mertens, Tex. Cultivator-tooth adjuster. No. 979,512; Dec. 27; Sp. p. 4514; Gaz. vol. 161; p. 797.
Kirk, Charles J., New Castle, Pa. Float-valve. No. 947,106; Jan. 18; Sp. p. 4648; Gaz. vol. 150; p. 767.
Kirk, Charles J., New Castle, Pa. Process and apparatus for forming articles of plastic material. No. 952,745; Mar. 22; Sp. p. 4670; Gaz. vol. 152; p. 845.
Kirk, Charles J., New Castle, Pa. Mold for forming plastic articles. No. 978,035; Dec. 6; Sp. p. 1324; Gaz. vol. 161; p. 212.
Kirk, Claud C., Newcastle, Ind. Dolly-bar. No. 974,677; Nov. 1; Sp. p. 1356; Gaz. vol. 160; p. 211.
Kirk, Edwin L. (See Feist, Charles M., assignor.)
Kirk, Habicht Company of Baltimore City, The. (See Habicht, William C., assignor.)
Kirk, Harry D. (See Fuchs, Nathan, assignor.)
Kirk, Henry C., Jr., Mount Washington, Md. Match-box holder. No. 949,185; Feb. 15; Sp. p. 2954; Gaz. vol. 151; p. 523.
Kirk, Hezekiah, Yorkville, W. Va. Tool-dropping apparatus for drills. No. 977,409; Nov. 29; Sp. p. 7357; Gaz. vol. 160; p. 1244.
Kirk, James B., The Dalles, Oreg. Water-elevator. No. 965,304; July 26; Sp. p. 4974; Gaz. vol. 156; p. 856.
Kirk, Robert H., assignor to The Long Arm System Company, Cleveland, Ohio. Plate-printing machine. No. 956,807; May 3; Sp. p. 658; Gaz. vol. 154; p. 105.
Kirk, Robert H., assignor to The "Long-Arm" System Company, Cleveland, Ohio. Engraving-machine. No. 962,439; June 28; Sp. p. 4637; Gaz. vol. 155; p. 819.
Kirk, William I., Buffalo, N. Y. Voting-machine. No. 960,956; June 7; Sp. p. 1430; Gaz. vol. 155; p. 241.
Kirkbride, Charles, Glouster, Ohio. Adjustable curtain-pole bracket. No. 948,687; Feb. 8; Sp. p. 1921; Gaz. vol. 151; p. 330.
Kirkbride, Edmund, Camden, N. J. Ribbon-holder for printing-presses. No. 953,423; Mar. 29; Sp. p. 6127; Gaz. vol. 152; p. 1100.
Kirke, William T., *et al.* (See Svenvig, Nikolai, assignor.)
Kirkegaard, Georg, New York, N. Y. Bottle-capping machine. No. 946,138; Jan. 11; Sp. p. 2472; Gaz. vol. 150; p. 413.
Kirkegaard, Georg, New York, N. Y., assignor to Imperial Stopper Company. Duplex capping-machine. No. 948,688; Feb. 8; Sp. p. 1923; Gaz. vol. 151; p. 330.
Kirkegaard, Georg, New York, N. Y., assignor to Imperial Stopper Company. Bottle-capping machine. No. 962,029; June 21; Sp. p. 3720; Gaz. vol. 155; p. 653.
Kirkegaard, Georg, New York, N. Y., assignor to Imperial Stopper Company. Feeding mechanism for bottle-capping machines. No. 962,030; June 21; Sp. p. 3722; Gaz. vol. 155; p. 654.
Kirkegaard, Georg, New York, N. Y., assignor to Imperial Stopper Company. Feed mechanism for assembling-machines. No. 967,644; Aug. 16; Sp. p. 3845; Gaz. vol. 157; p. 660.
Kirkham, Orlando, Marshalltown, Iowa. Roller-skate. No. 956,584; May 3; Sp. p. 168; Gaz. vol. 154; p. 29.
Kirkland, Milton H. (See Doty and Kirkland.)
Kirkland, Ralph T., Adams, N. Y. Railway-rail fastening for railway-ties. No. 967,134; Aug. 9; Sp. p. 2808; Gaz. vol. 157; p. 461.
Kirkpatrick, Clifford P. (See Kirkpatrick, Robbins, and Kirkpatrick.)
Kirkpatrick, John G., Prescott, Ariz. Securing device for ice-cream freezers. No. 951,007; Mar. 1; Sp. p. 1121; Gaz. vol. 152; p. 181.
Kirkpatrick, John G., Prescott, Ariz. Adjustable ironing-board. No. 955,083; Apr. 12; Sp. p. 2998; Gaz. vol. 153; p. 508.
Kirkpatrick, Peter T., assignor of one-half to J. F. Russell, Battle Creek, Mich. Pneumatic straw-stacker. No. 958,137; May 17; Sp. p. 3685; Gaz. vol. 154; p. 622.
Kirkpatrick, Stafford F., Kingston, Ontario, Canada. Precipitation of metals from cyanid solutions. No. 959,757; May 31; Sp. p. 7193; Gaz. vol. 154; p. 1220.
Kirkpatrick, Willard, and F. W. Van Tuyl, Kansas City, Kans. Electric signal for railways. No. 950,623; Mar. 1; Sp. p. 340; Gaz. vol. 152; p. 55.
Kirkpatrick, William A. (See McKeown and Kirkpatrick.)
Kirkpatrick, William A., J. E. Robbins, Greensburg, and C. P. Kirkpatrick, Indianapolis, Ind. Knockdown seat. No. 970,721; Sept. 20; Sp. p. 3391; Gaz. vol. 158; p. 582.
Kirkpatrick, William H. G. (See Smith, Joseph A., assignor.)
Kirkpatrick, Willie H., Celina, Tenn. Work-bench screw. No. 978,900; Dec. 20; Sp. p. 3176; Gaz. vol. 161; p. 563.
Kirksey, John G., Milwaukee, Wis. Hydraulic ore-concentrator. No. 964,652; July 19; Sp. p. 3536; Gaz. vol. 156; p. 605.
Kirksey, Walter A. (See Griffin and Kirksey.)
Kirkwood, William, Chicago, Ill. Means for fluxing and supplying solder. No. 955,172; Apr. 19; Sp. p. 3180; Gaz. vol. 153; p. 571.
Kirner, Josef H. K., Stuttgart, assignor to Norma Compagnie, G. M. B. H., Cannstatt, Würtemberg, Germany. Roller-bearing. No. 967,934; Aug. 23; Sp. p. 4437; Gaz. vol. 157; p. 781.
Kirsch, Charles W., assignor to Kirsch Manufacturing Company, Sturgis, Mich. Stair-carpet fastener. No. 958,138; May 17; Sp. p. 3686; Gaz. vol. 154; p. 622.
Kirsch, Charles W., assignor to Kirsch Manufacturing Company, Three Rivers, Mich. Curtain-rod. No. 964,653; July 19; Sp. p. 3538; Gaz. vol. 156; p. 606.
Kirsch Manufacturing Company. (See Kirsch, Charles W., assignor.)
Kirschen, Oskar, Kolomea, Austria-Hungary. Crude-oil burner. No. 965,305; July 26; Sp. p. 4976; Gaz. vol. 156; p. 856.
Kirschke, Otto, assignor to Firm of J. G. Kayser, Nuremberg, Germany. Machine for cutting threads on wood-screws. No. 977,527; Dec. 6; Sp. p. 256; Gaz. vol. 161; p. 37.
Kirshner, Michael, assignor to Kirshner Rotary Oil Press Corporation, Lynchburg, Va. Apparatus for extracting oils. No. 945,549; Jan. 4; Sp. p. 1167; Gaz. vol. 150; p. 181.
Kirshner Rotary Oil Press Corporation. (See Kirshner, Michael, assignor.)
Kirtland, George D. (See Marshall, Charles H., assignor.)
Kiser, Daniel, Richmond, Ind. Spring-wheel. No. 976,660; Nov. 22; Sp. p. 5689; Gaz. vol. 160; p. 962.
Kiser, Lewis C., Decatur, assignor of one-half to Joseph Stocks, Lake City, Ill. Grain-drier. No. 954,033; Apr. 5; Sp. p. 704; Gaz. vol. 153; p. 124.
Kisner, Thomas J. (See Quareles, Belle, assignor.)
Kissel, William H., Council Bluffs, Iowa. Alfalfa-meal mixer. No. 958,254; May 17; Sp. p. 3925; Gaz. vol. 154; p. 660.
Kissel, William L., Hartford, Wis. Riding attachment for plows. No. 952,815; Mar. 22; Sp. p. 4831; Gaz. vol. 152; p. 869.
Kissel, William L., Hartford, Wis. Truck mechanism. No. 964,434; July 12; Sp. p. 3020; Gaz. vol. 156; p. 498.
Kissinger, Amos, assignor of one-half to H. Focht, Reading, Pa. Sash-fastener. No. 948,588; Feb. 8; Sp. p. 1715; Gaz. vol. 151; p. 297.
Kistler, John F., San Francisco, Cal. Gas apparatus. No. 946,371; Jan. 11; Sp. p. 3079; Gaz. vol. 150; p. 495.
Kistler, Samuel L., Los Angeles, Cal. Surgical clamp. No. 963,899; July 12; Sp. p. 1947; Gaz. vol. 156; p. 320.
Kistner, Harry U., Sunbury, Pa. Saw-set. No. 968,771; Aug. 30; Sp. p. 6276; Gaz. vol. 157; p. 1096.
Kistner, Henry N., Zion City, assignor to R. F. Mueller, Chicago, Ill. Mandrel for phonographs. No. 973,203; Oct. 18; Sp. p. 3758; Gaz. vol. 159; p. 642.
Kitch, George. (See Connors and Kitch.)
Kitchen, Frederick T., assignor, by mesne assignments, to Compressed Metal Company, New York, N. Y. Casting apparatus. No. 969,539; Sept. 6; Sp. p. 831; Gaz. vol. 158; p. 131.
Kitchen, John G. A., Lancaster, and I. H. Storey, Ambleside, England. Pneumatic tire. No. 948,701; Feb. 8; Sp. p. 1957; Gaz. vol. 151; p. 335.
Kitchen, John H., *et al.* (See Smith, Fred P., assignor.)
Kitchen, Joseph M. W., East Orange, N. J. Heating apparatus. No. 964,109; July 12; Sp. p. 2386; Gaz. vol. 156; p. 391.
Kitchen, Warren A., New Market, Iowa. Shifting shafts for vehicles. No. 947,824; Feb. 1; Sp. p. 75; Gaz. vol. 151; p. 16.
Kitsée, Isidor, Philadelphia, Pa. Telegraphic relay. No. 956,808; May 3; Sp. p. 670; Gaz. vol. 154; p. 105.
Kitsee, Isidor, Philadelphia, Pa. Telegraphic relay. No. 963,298; July 5; Sp. p. 677; Gaz. vol. 156; p. 96.
Kitsee, Isidor, Philadelphia, Pa. Relay. No. 963,374; July 5; Sp. p. 819; Gaz. vol. 156; p. 121.
Kitsee, Isidor, Philadelphia, Pa. Metallic filament. No. 971,385; Sept. 27; Sp. p. 4753; Gaz. vol. 158; p. 830.
Kitsee, Isidor, assignor of one-half to W. J. Latta, Philadelphia, Pa. Telegraphy. No. 962,709; June 28; Sp. p. 5224; Gaz. vol. 155; p. 912.
Kitselman, Alva L., Muncie, Ind., assignor to Interlocking Fence Company, Morton, Ill. Machine for making wire fabric. No. 980,104; Dec. 27; Sp. p. 5815; Gaz. vol. 161; p. 997.
Kitselman, Alva L., Muncie, Ind., assignor to Interlocking Fence Company, Morton, Ill. Fence-machine. No. 980,105; Dec. 27; Sp. p. 5822; Gaz. vol. 161; p. 997.
Kitsteiner, John, Jr., and J. T. Uebbing, Cleveland, Ohio; said Uebbing assignor to said Kitsteiner. Portable scaffold. No. 965,717; July 26; Sp. p. 5882; Gaz. vol. 156; p. 999.
Kittle, Charles R., Los Angeles, Cal. Seat for motorcycles and other self-propelled vehicles. No. 971,848; Oct. 4; Sp. p. 713; Gaz. vol. 159; p. 124.

Alphabetical list of patentees—Continued.

Kittle, Charles R., and J. W. Gates; said Gates assignor to R. K. Holmes, Los Angeles, Cal. Spring-fork for wheeled vehicles. No. 979,674; Dec. 27; Sp. p. 4872; Gaz. vol. 161; p. 854.
Kittlinger, Frederick W., Rochester, N. Y. Latch for hinged lasts. No. 971,200; Sept. 27; Sp. p. 4393; Gaz. vol. 158; p. 771.
Kittredge, Frank H., Joliet, Ill. Interlocking safety mechanism for controlling devices. No. 964,654; July 19; Sp. p. 3540; Gaz. vol. 156; p. 606.
Kittredge, Henry E., Boston, Mass. Nut-lock. No. 946,055; Jan. 11; Sp. p. 2317; Gaz. vol. 150; p. 385.
Kittredge, Henry E., Boston, Mass. Hose-coupling. No. 966,925; Aug. 9; Sp. p. 2368; Gaz. vol. 157; p. 388.
Kittridge, Edward L. (See Dubuc, Napoleon, Jr., assignor.)
Kitts, Willard A., Sr., and W. A., Jr., Oswego, N. Y. Water-feed regulator. No. 946,139; Jan. 11; Sp. p. 2474; Gaz. vol. 150; p. 413.
Kitts, William C., Winnsboro, assignor of one-third to W. R. Beckham, Blossom, Tex. Clothes-pin. No. 951,133; Mar. 8; Sp. p. 1363; Gaz. vol. 152; p. 247.
Kitzmiller, George M., Norfolk, Va. Automatic ribbon-reversing mechanism for type-writing machines. No. 959,945; May 31; Sp. p. 7625; Gaz. vol. 154; p. 1286.
Kitzsteiner, Frank, Grand Rapids, Mich., assignor to The Quick Work Stove Company, Cleveland, Ohio. Alcohol-lamp. No. 978,901; Dec. 20; Sp. p. 3177; Gaz. vol. 161; p. 564.
Kizer, Edwin O. (See Stuart and Kizer.)
Kizer, John D. (See Gill and Kizer.)
Kjellberg, Oscar, Gottenborg, Sweden. Electric welding, brazing, or soldering. No. 948,764; Feb. 8; Sp. p. 2102; Gaz. vol. 151; p. 357.
Kjelstad, Matt and S., Stanwood, Wash. Rope-making machine. No. 947,410; Jan. 25; Sp. p. 5360; Gaz. vol. 150; p. 898.
Kjelstad, Svein. (See Kjelstad, Matt and S.)
Kjerulff, Lawrence, Kansas City, Mo. Pump-governor. No. 951,318; Mar. 8; Sp. p. 1747; Gaz. vol. 152; p. 307.
Kjilberg, John E., assignor of one-half to C. G. Ollinger, Mobile, Ala. Sea-wall or wharf construction. No. 969,706; Sept. 6; Sp. p. 1165; Gaz. vol. 158; p. 189.
Kjöller, Anders P., South Hadley, Mass. Seating arrangement for steam and other valves. No. 975,046; Nov. 8; Sp. p. 2201; Gaz. vol. 160; p. 358.
Klages, Henry C. (See Fornoff and Klages.)
Klahn, Emil, Weehawken, N. J., assignor to Barney & Berry, Incorporated, Springfield, Mass. Making rollers or wheels. No. 978,036; Dec. 6; Sp. p. 1326; Gaz. vol. 161; p. 212.
Klaiber, Maximilian, New York, assignor to American Bioscope Company, Brooklyn, N. Y. Shutter. No. 947,471; Jan. 25; Sp. p. 5489; Gaz. vol. 150; p. 917.
Klaiber, Maximilian, assignor to The Modern Improvements Manufacturing Company, Brooklyn, N. Y. Picture-projecting apparatus. No. 968,667; Aug. 30; Sp. p. 6033; Gaz. vol. 157; p. 1060.
Klapproth, Wilhelm, Nieder-Ingelheim-on-the-Rhine, Germany. Manufacturing lactic acid. No. 947,078; Jan. 18; Sp. p. 4593; Gaz. vol. 150; p. 758.
Klasing, Augustus F., Rome, Ga. Car-brake. No. 977,634; Dec. 6; Sp. p. 491; Gaz. vol. 161; p. 74.
Klassen, Jacob H. (See Smith and Klassen.)
Klassen, John C., Kansas City, Kans., assignor of one-half to J. A. Wisherd, Stanton county, Nebr. Automatic cut-off for gas-service pipes. No. 963,157; July 5; Sp. p. 332; Gaz. vol. 156; p. 47.
Klatt, Albert C. (See Klatt, Rudolph J. and A. C.)
Klatt, Rudolph J. and A. C., Beaver Dam, Wis. Silo. No. 948,397; Feb. 8; Sp. p. 1301; Gaz. vol. 151; p. 233.
Klauder, Rudolph H., Philadelphia, Pa. Hose-supporter. No. 975,364; Nov. 8; Sp. p. 2884; Gaz. vol. 160; p. 466.
Klaus, Nicholas, Breda, Iowa. Planter-shoe. No. 946,845; Jan. 18; Sp. p. 4115; Gaz. vol. 150; p. 681.
Klaus, William, New Haven, Conn. Sleigh-runner. No. 961,415; June 14; Sp. p. 2405; Gaz. vol. 155; p. 425.
Klausman, William A., St. Marys, Pa. Combined foot-rest and shoe-cleaning stand. No. 978,037; Dec. 6; Sp. p. 1327; Gaz. vol. 161; p. 212.
Klaw, Millard J., *et al.* (See Foster, William B., assignor.)
Kleber, Clemens O., Clifton, N. J. Perfume. No. 969,636; Sept. 6; Sp. p. 1036; Gaz. vol. 158; p. 166.
Kleckner, Clinton J., Minneapolis, Minn. Hat display and stock cabinet. No. 960,342; June 7; Sp. p. 211; Gaz. vol. 155; p. 36.
Klee, Andy F. (See Leonard and Klee.)
Kleeberger, John J., San Benito, Tex. Plant-setter. No. 974,077; Oct. 25; Sp. p. 5576; Gaz. vol. 159; p. 966.
Klefeker, Charles B., assignor to Bloomer Bros. Company, Newark, N. Y. Egg-box. No. 957,218; May 10; Sp. p. 1552; Gaz. vol. 154; p. 275.
Klega, Joseph, Easton, Pa. Steel railway-tie. No. 953,533; Mar. 29; Sp. p. 6368; Gaz. vol. 152; p. 1140.
Klehe, Wilhelm. (See Hartmann and Klehe.)
Kleim, Gustav, Leipzig, Germany, assignor to J. Logan, Worcester, Mass. Sheet-feeding device for printing-machines. (Reissue.) No. 13,082; Feb. 15; Sp. p. 4106; Gaz. vol. 151; p. 711.
Klein, Arthur B., Covington, Ky. Medicated article. No. 977,635; Dec. 6; Sp. p. 493; Gaz. vol. 161; p. 74.
Klein, Bertalan, Ralphton, Pa. Sleigh. No. 950,292; Feb. 15; Sp. p. 2956; Gaz. vol. 151; p. 523.
Klein, Carl E., Franklinville, Pa. Smoking-pipe. No. 952,816; Mar. 22; Sp. p. 4832; Gaz. vol. 152; p. 869.
Klein, Charles J., assignor, by mesne assignments, to I. S. Rosemheim, New York, N. Y. Electric switch. No. 949,123; Feb. 15; Sp. p. 2834; Gaz. vol. 151; p. 501.
Klein, Daniel, Spokane, Wash. Teat-cup. No. 949,186; Feb. 15; Sp. p. 2956; Gaz. vol. 151; p. 523.
Klein, Daniel, and D. Brown, Spokane, Wash. Teat-cup. No. 954,110; Apr. 5; Sp. p. 864; Gaz. vol. 153; p. 150.
Klein, Daniel, and D. Brown, Spokane, Wash. Teat-cup. No. 975,047; Nov. 8; Sp. p. 2202; Gaz. vol. 160; p. 358.
Klein, Henry, New York, N. Y. Office-partition and the like. No. 956,642; May 3; Sp. p. 287; Gaz. vol. 154; p. 48.
Klein, Hermann, assignor of one-third to W. Reiter, New York, N. Y. Radiator for automobiles. No. 975,872; Nov. 15; Sp. p. 3954; Gaz. vol. 160; p. 666.
Klein, Hugo L., *et al.* (See Lewy, Charles H., assignor.)
Klein, Jacob P., and A. Friedrichs, San Bernardino, Cal. Fluid-pressure engine. No. 945,462; Jan. 4; Sp. p. 969; Gaz. vol. 150; p. 152.
Klein, Joseph. (See Romm, Charles, assignor.)
Klein, Morris, Oakland, Cal. Horseshoe. No. 976,579; Nov. 22; Sp. p. 5530; Gaz. vol. 160; p. 934.
Klein, Simon H., Meridian, Miss. Display-cover for barrels. No. 977,315; Nov. 29; Sp. p. 7120; Gaz. vol. 160; p. 1211.
Kleinberger, John, Brooklyn, and R. Stern, assignors to American Marine Lamp Mfg. Co., New York, N. Y. Fog-horn. No. 975,960; Nov. 15; Sp. p. 4127; Gaz. vol. 160; p. 697.
Kleine, August, Atzendorf, Germany. Refrigerating plant. No. 947,445; Jan. 25; Sp. p. 5433; Gaz. vol. 150; p. 910.
Kleinfelder, William G., Chicago, Ill. Planer. No. 945,958; Jan. 11; Sp. p. 2126; Gaz. vol. 150; p. 353.
Kleinhan, John W., Alexander, N. D. Speed-ranger for governors. No. 961,865; June 21; Sp. p. 3392; Gaz. vol. 155; p. 600.
Kleinhans, Lindley, New York, N. Y. Change maker and indicator. No. 976,129; Nov. 15; Sp. p. 4462; Gaz. vol. 160; p. 755.
Kleinman, Jacob L., New York, N. Y. Gage for sewing-machines. No. 952,336; Mar. 15; Sp. p. 3786; Gaz. vol. 152; p. 677.
Kleinmann, Leo. (See Schwartz and Kleinmann.)
Kleinschmidt, Edward. (See Cordley and Kleinschmidt.)
Kleinschmidt, Edward E., New York, N. Y. Keyboard telegraphic transmitter. No. 946,372; Jan. 11; Sp. p. 3082; Gaz. vol. 150; p. 496.
Kleiser, Robert J., Nashville, Tenn. Safety attachment for horseshoes. No. 951,534; Mar. 8; Sp. p. 2182; Gaz. vol. 152; p. 379.
Kleissler, Gottlieb. (See Weiler and Kleissler.)
Kleist, John C. (See Bender, Albert N., assignor.)
Klemetson, Eleser, Henning, Minn. Hitching device for stock. No. 949,038; Feb. 15; Sp. p. 2662; Gaz. vol. 151; p. 474.
Klemm, Hans, Dresden, Germany. Flower-pot. No. 954,440; Apr. 12; Sp. p. 1567; Gaz. vol. 153; p. 288.
Klemm, William H., Pittsburg, Pa. Combined closure and locking means. No. 969,881; Sept. 13; Sp. p. 1598; Gaz. vol. 158; p. 275.
Klemp, Hermann L. W. F., Berlin, Germany. Carriage-feeding device for typewriters. No. 978,758; Dec. 13; Sp. p. 2902; Gaz. vol. 161; p. 491.
Klenk, Gottlieb, Defiance, Ohio, assignor, by mesne assignments, to The Defiance Pressed Steel Company. Metal box and crate. No. 959,553; May 31; Sp. p. 6781; Gaz. vol. 154; p. 1153.
Klenk, Gottlieb, Defiance, Ohio, assignor to The Defiance Pressed Steel Company. Sheet-metal box. No. 959,554; May 31; Sp. p. 6783; Gaz. vol. 154; p. 1154.
Klepfer, Solomon, Indianapolis, Ind. Filing-cabinet. No. 957,423; May 10; Sp. p. 2000; Gaz. vol. 154; p. 345.
Klett, Fred. (See Dressler and Klett.)
Klett, Hugo, Ilmenau, Germany. Inkstand with self-filling well. No. 947,664; Jan. 25; Sp. p. 5924; Gaz. vol. 150; p. 984.
Klett, William F., Mobile, Ala. Jail-bar. No. 971,900; Oct. 4; Sp. p. 840; Gaz. vol. 159; p. 144.
Kletti, Johann, III, Sandhausen, Germany. Cigar-maker's box and rolling-board. No. 959,060; May 24; Sp. p. 5741; Gaz. vol. 154; p. 963.
Kletti, Johann, III, Sandhausen, Germany. Cigar-maker's rolling-board. No. 960,957; June 7; Sp. p. 1436; Gaz. vol. 155; p. 241.
Klevesahl, William A. (See Mahone, Charles R., assignor.)
Kliegl, John H., New York, N. Y. Plug-switch. No. 963,733; July 5; Sp. p. 1564; Gaz. vol. 156; p. 241.
Klimowicz, Paul, and J. S. Worzalla, Stevens Point, Wis. Mattress. No. 965,637; July 26; Sp. p. 5721; Gaz. vol. 156; p. 973.
Klinck, William F., Akron, Ohio. Folding device. No. 959,354; May 24; Sp. p. 6347; Gaz. vol. 154; p. 1061.

Alphabetical list of patentees—Continued.

Klinck, William F., Akron, Ohio. Combination receiving, dividing, and conveying device. No. 964,166; July 12; Sp. p. 2490; Gaz. vol. 156; p. 409.
Klindworth, John L., Bellevue, assignor to Mesta Machine Company, Pittsburg, Pa. Gage for shears. No. 954,396; Apr. 5; Sp. p. 1479; Gaz. vol. 153; p. 246.
Klindworth, John L., Bellevue, assignor to Mesta Machine Company, Pittsburg, Pa. Tipping furnace, mixer, &c. No. 958,503; May 17; Sp. p. 4567; Gaz. vol. 154; p. 749.
Kline, Anson S. (See Heller and Kline.)
Kline, Charles R., Beechwood, Pa. Rocking grate-bar. No. 957,690; May 10; Sp. p. 2527; Gaz. vol. 154; p. 437.
Kline, Charles R., Beechwood, Pa. Furnace attachment. No. 962,152; June 21; Sp. p. 4018; Gaz. vol. 155; p. 698.
Kline, Charles W., and H. A. Long, Fort Worth, Tex. Powder-ejector. No. 948,057; Feb. 1; Sp. p. 586; Gaz. vol. 151; p. 94.
Kline, David C., assignor to The Pritchard-Strong Company, Rochester, N. Y. Globe-holding device for tubular lanterns. No. 963,299; July 5; Sp. p. 679; Gaz. vol. 156; p. 96.
Kline, Edward C., Streator, Ill. Portable greenhouse or the like. No. 956,771; May 3; Sp. p. 584; Gaz. vol. 154; p. 93.
Kline, Edward C., Streator, Ill. Treating asparagus and kindred plants. No. 958,932; May 24; Sp. p. 5490; Gaz. vol. 154; p. 921.
Kline, Fred C. (See Bean, Charles L., assignor.)
Kline, James F. (See Drenk, Charles F., assignor.)
Kline, James R. (See Groh, Harry H., assignor.)
Kline, John R., *et al.* (See Snowden, Rene R., assignor.)
Kline, Mabel M., London, England. Catamenial skirt-protector. No. 971,680; Oct. 4; Sp. p. 353; Gaz. vol. 159; p. 63.
Kline, Peter D., and B. A. D. Ward, Salt Lake City, Utah. Apparatus for stringing wires, &c. No. 965,528; July 26; Sp. p. 5482; Gaz. vol. 156; p. 933.
Kline, Robert, Cleveland, Ohio. Mop-holder. No. 966,692; Aug. 9; Sp. p. 1825; Gaz. vol. 157; p. 312.
Kline, Samuel H., Earling, Iowa. Wireless check-row planter. No. 975,365; Nov. 8; Sp. p. 2885; Gaz. vol. 160; p. 466.
Kling, Peter M., Allegheny, Pa. Spring-wheel. No. 954,522; Apr. 12; Sp. p. 1765; Gaz. vol. 153; p. 317.
Kling, Peter M., McKees Rocks, Pa. Spring-wheel. No. 954,523; Apr. 12; Sp. p. 1767; Gaz. vol. 153; p. 317.
Klingenfeld, Heinrich, New York, N. Y. Combined garment support and form. No. 952,202; Mar. 15; Sp. p. 3503; Gaz. vol. 152; p. 630.
Klinger, Richard, Gumpoldskirchen, near Vienna, Austria-Hungary. Cock and the like. No. 970,834; Sept. 20; Sp. p. 3648; Gaz. vol. 158; p. 623.
Klingloff, Andrew R., Roslindale, Mass. Device for grinding elevator-plungers. No. 961,969; June 21; Sp. p. 3603; Gaz. vol. 155; p. 634.
Klinke, Joseph H., Brighton, Ill. Incubator. No. 949,653; Feb. 15; Sp. p. 3899; Gaz. vol. 151; p. 679.
Klinker, George W., assignor of one-half to S. W. Smith, West Leipsic, Ohio. Rail-joint. No. 954,865; Apr. 12; Sp. p. 2571; Gaz. vol. 153; p. 437.
Klinkhammer, Joseph, Hopkins, Minn. Tie-plate and rail-spacing device. No. 945,172; Jan. 4; Sp. p. 338; Gaz. vol. 150; p. 57.
Klint, Anton H., assignor of one-half to S. Bishop, San Francisco, Cal. Life-preserver. No. 974,158; Nov. 1; Sp. p. 103; Gaz. vol. 160; p. 20.
Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing-press. No. 945,550; Jan. 4; Sp. p. 1182; Gaz. vol. 150; p. 182.
Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing-press. No. 955,173; Apr. 19; Sp. p. 3182; Gaz. vol. 153; p. 571.
Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 965,529; July 26; Sp. p. 5484; Gaz. vol. 156; p. 934.
Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing-press. No. 967,022; Aug. 9; Sp. p. 2571; Gaz. vol. 157; p. 422.
Klohs, Bartholomew F., assignor to The Diebold Safe & Lock Company, Canton, Ohio. Device for operating and locking prison-doors. No. 964,525; July 19; Sp. p. 3249; Gaz. vol. 156; p. 560.
Klohs, Samuel F. (See Fee, Fred W., assignor.)
Klopping, Adolph C., Toledo, Ohio. Heating-stove. No. 954,741; Apr. 12; Sp. p. 2268; Gaz. vol. 153; p. 393.
Klose, Adolph, Halensee, near Berlin, Germany. Engine driven by inner-combustion motor. No. 949,580; Feb. 15; Sp. p. 3771; Gaz. vol. 151; p. 656.
Klosiensky, Joseph, Hicksville, N. Y. Lock mechanism for safes. No. 965,586; July 26; Sp. p. 5608; Gaz. vol. 156; p. 954.
Kloss, Ernst L., Minisink Ford, N. Y. Field-stone collector. No. 976,811; Nov. 22; Sp. p. 5990; Gaz. vol. 160; p. 1012.
Klötzer, Hans O. (See Bergmann and Klötzer.)
Klucking, Albin H., assignor of one-third to G. McMillan, Sibley, Iowa. Tile-setter for wells. No. 971,508; Sept. 27; Sp. p. 4969; Gaz. vol. 158; p. 870.
Klug, Eduard P., Krimmitschau, Germany. Cylinder-press. No. 955,647; Apr. 19; Sp. p. 4230; Gaz. vol. 153; p. 733.
Kluge, William H., Indianapolis, Ind. Automatic coin-controlled lock. No. 950,821; Mar. 1; Sp. p. 776; Gaz. vol. 152; p. 123.
Kluge, William H., assignor to The Coin Controlling Lock Company, Indianapolis, Ind. Coin-controlled indicator. No. 955,968; Apr. 26; Sp. p. 4943; Gaz. vol. 153; p. 873.
Kluge, William H., assignor to The Coin Controlling Lock Company, Indianapolis, Ind. Indicator for coin-controlled locks. No. 955,969; Apr. 26; Sp. p. 4945; Gaz. vol. 153; p. 874.
Klugh, John T., Madison, Mo. Insulator. No. 971,619; Oct. 4; Sp. p. 239; Gaz. vol. 159; p. 42.
Klump, Charles M. (See Dungan, Elmer E., assignor.)
Klump, Charles M. (See Dungan and Klump.)
Klun, Louis, Spaulding, Ill. Miner's lamp. No. 953,093; Mar. 29; Sp. p. 5408; Gaz. vol. 152; p. 991.
Knaak, Geo. A., *et al.* (See Rasmussen, Clara H., assignor.)
Knaak, Robert C., Hartsburg, Ill. Concave attachment for threshing-machines. No. 953,845; Apr. 5; Sp. p. 326; Gaz. vol. 153; p. 58.
Knape, John, Grand Rapids, Mich. Roller-support. No. 946,056; Jan. 11; Sp. p. 2319; Gaz. vol. 150; p. 385.
Knape, John, Grand Rapids, Mich. Shelf-support. No. 951,134; Mar. 8; Sp. p. 1364; Gaz. vol. 152; p. 248.
Knapik, Thomas. (See Stein and Knapik.)
Knapp, Albert S., Cooperstown, N. Y. Tweezers. No. 964,526; July 19; Sp. p. 3255; Gaz. vol. 156; p. 561.
Knapp, Arthur, Houma, La. Drill-chuck. No. 971,901; Oct. 4; Sp. p. 841; Gaz. vol. 159; p. 144.
Knapp, David R. (See Cade and Knapp.)
Knapp, Frederick H., Chicago, Ill. Window-shade bracket. No. 954,742; Apr. 12; Sp. p. 2270; Gaz. vol. 153; p. 394.
Knapp, George N., St. Louis, Mo. Air, steam, or hot-water coupling. No. 969,637; Sept. 6; Sp. p. 1037; Gaz. vol. 158; p. 166.
Knapp, Heinrich, Weimar, Germany. Door check and closer. No. 966,926; Aug. 9; Sp. p. 2370; Gaz. vol. 157; p. 388.
Knapp, Holland J. (See Knapp, Roland W., assignor.)
Knapp, John G., Boonville, N. Y. Dish-washing machine. No. 959,355; May 24; Sp. p. 6348; Gaz. vol. 154; p. 1061.
Knapp, Joseph P., New York, and G. E. Pancoast, Brooklyn, N. Y., assignors to American Lithographic Company. Web-manipulating mechanism. No. 948,548; Feb. 8; Sp. p. 1613; Gaz. vol. 151; p. 284.
Knapp, Joseph P., New York, and G. E. Pancoast, Brooklyn, N. Y., assignors to American Lithographic Company. Manipulating paper or similar fabric in web form. No. 948,549; Feb. 8; Sp. p. 1620; Gaz. vol. 151; p. 284.
Knapp, Roland W., assignor of one-half to H. J. Knapp, Minneapolis, Minn. Radiator. No. 966,218; Aug. 2; Sp. p. 808; Gaz. vol. 157; p. 128.
Knapp, Samuel T., Lebam, Wash. Ironing-board. No. 956,104; Apr. 26; Sp. p. 5234; Gaz. vol. 153; p. 920.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Dead-key mechanism for type-writers. No. 946,229; Jan. 11; Sp. p. 2677; Gaz. vol. 150; p. 445.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Copy-holder for type-writing machines. No. 954,111; Apr. 5; Sp. p. 866; Gaz. vol. 153; p. 150.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Tabulator for type-writing machines. No. 965,530; July 26; Sp. p. 5486; Gaz. vol. 156; p. 934.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Type-writing machine. No. 969,483; Sept. 6; Sp. p. 698; Gaz. vol. 158; p. 111.
Knapp, Theron L., and C. C. Harting, Woodstock, Ill., assignors to The Oliver Typewriter Company, Chicago, Ill. Column-stop mechanism for type-writers. No. 959,061; May 24; Sp. p. 5742; Gaz. vol. 154; p. 963.
Knapp, Willard C., Wyoming, N. Y. Door-stop. No. 968,059; Aug. 23; Sp. p. 4714; Gaz. vol. 157; p. 823.
Knapp, William B., Stoneham, Mass. Shock-absorber. No. 949,654; Feb. 15; Sp. p. 3901; Gaz. vol. 151; p. 680.
Knapp, William B., Paterson, N. J. Window-curtain, screen, and the like. No. 963,900; July 12; Sp. p. 1948; Gaz. vol. 156; p. 320.
Knapp, William F., Denver, Colo. Mail-pouch-exchanging apparatus. No. 976,374; Nov. 22; Sp. p. 5072; Gaz. vol. 160; p. 862.
Knasinski, Joseph A., assignor of one-half to A. W. Koehn, Oshkosh, Wis. Sash-fastener. No. 975,961; Nov. 15; Sp. p. 4128; Gaz. vol. 160; p. 698.
Knaster, Leon, Hoboken, N. J. Safety-razor. No. 975,535; Nov. 15; Sp. p. 3263; Gaz. vol. 160; p. 554.
Knauf, Paul W., Cynwyd, assignor to Schulte and Koerting Company, Philadelphia, Pa. Valve-operating mechanism. No. 956,772; May 3; Sp. p. 587; Gaz. vol. 154; p. 93.
Knaus, Gottfrid, assignor to Sellers Manufacturing Company, Chicago, Ill. Shearing-machine. No. 978,598; Dec. 13; Sp. p. 2570; Gaz. vol. 161; p. 438.
Knauss, Frank V., Portsmouth, Ohio. Oven-door. No. 949,984; Feb. 22; Sp. p. 4688; Gaz. vol. 151; p. 829.

Alphabetical list of patentees—Continued.

Knauss, Frank V., Portsmouth, Ohio. Oven-plate. No. 955,411; Apr. 19; Sp. p. 3711; Gaz. vol. 153; p. 652.
Knaust, Fredrick, Jersey City, N. J. Gambrel. No. 962,358; June 21; Sp. p. 4446; Gaz. vol. 155; p. 766.
Kneas, Frank N., Norristown, Pa. Metal sheet-piling. No. 957,169; May 3; Sp. p. 1425; Gaz. vol. 154; p. 228.
Knecht, Jakob, Zurich, Switzerland. Knife-sharpener for mowing-machines. No. 974,078; Oct. 25; Sp. p. 5577; Gaz. vol. 159; p. 967.
Knecht, Johann J., Chemnitz, Germany. Jacquard for embroidering-machines. No. 979,964; Dec. 27; Sp. p. 5498; Gaz. vol. 161; p. 951.
Knee, Lucious C., assignor of one-half to A. Parker, Philadelphia, Pa. Camera-shutter and means for operating the same. No. 965,389; July 26; Sp. p. 5157; Gaz. vol. 156; p. 884.
Kneeland, Earnest S., Malden, Mass. Weighing device. No. 967,935; Aug. 23; Sp. p. 4438; Gaz. vol. 157; p. 781.
Kneip, Anton, Maspeth, assignor of one-half to W. E. Bellion, Brooklyn, N. Y. Spring-wheel. No. 970,835; Sept. 20; Sp. p. 3650; Gaz. vol. 158; p. 623.
Kneisly, Daniel W., assignor to The Dayton Telephone Lockout Mfg. Co., Dayton, Ohio. Dial for selective signaling apparatus. No. 949,797; Feb. 22; Sp. p. 4216; Gaz. vol. 151; p. 761.
Kneisly, Daniel W., assignor to The Dayton Telephone Lockout Mfg. Co., Dayton, Ohio. Lockout device for party-telephones. No. 953,340; Mar. 29; Sp. p. 5936; Gaz. vol. 152; p. 1071.
Kneppers, Hendricus L. (See Duysens, De Jong, and Kneppers.)
Kneppler, Charles M., New York, assignor to L. E. Kneppler, Brooklyn Hills, N. Y. Feeding mechanism for printing-presses. No. 953,273; Mar. 29; Sp. p. 5796; Gaz. vol. 152; p. 1049.
Kneppler, Louis E. (See Kneppler, Charles M., assignor.)
Kneuper, George M., New York, N. Y. Filter. No. 962,031; June 21; Sp. p. 3726; Gaz. vol. 155; p. 654.
Kneuper, George M., Brooklyn, N. Y. Filter. No. 973,868; Oct. 25; Sp. p. 5148; Gaz. vol. 159; p. 894.
Knibbs, John W. (See Houston, Edward D., assignor.)
Knickerbocker, Burton D., Chicago, Ill. Foldable bath-hopper. No. 954,972; Apr. 12; Sp. p. 2797; Gaz. vol. 153; p. 474.
Knickerbocker, Burton D., Chicago, Ill. Fountain bath-brush having sponge surface. No. 956,105; Apr. 26; Sp. p. 5235; Gaz. vol. 153; p. 920.
Knickerbocker, Burton D., Chicago, Ill. Spraying-siphon attachment for bathing purposes. No. 957,566; May 10; Sp. p. 2277; Gaz. vol. 154; p. 394.
Knickerbocker, Burton D., Chicago, Ill. Hose connection for faucets. No. 975,873; Nov. 15; Sp. p. 3955; Gaz. vol. 160; p. 666.
Knickerbocker, Curtis E., and W. H. Harland, Jr., Middletown, N. Y. Deflection-recorder. No. 965,911; Aug. 2; Sp. p. 134; Gaz. vol. 157; p. 23.
Knickerbocker, Harvey O., and C. G. Watson, Detroit, Mich. Clothes-line support. No. 961,240; June 14; Sp. p. 2029; Gaz. vol. 155; p. 366.
Knight, Amos L. (See Bancroft and Knight.)
Knight, Arthur F., Schenectady, N. Y. Golf-club. No. 976,267; Nov. 22; Sp. p. 4846; Gaz. vol. 160; p. 827.
Knight, Arthur S., Newark, N. J., assignor to Westinghouse Lamp Company. Support for incandescent-lamp filaments. No. 951,400; Mar. 8; Sp. p. 1919; Gaz. vol. 152; p. 333.
Knight, Charles A. (See Hendren, Walter S., assignor.)
Knight, Charles Y., Oak Park, assignor of one-half to L. B. Kilbourne, Chicago, Ill. Internal-combustion engine. No. 968,166; Aug. 23; Sp. p. 4978; Gaz. vol. 157; p. 859.
Knight, Earle R., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Brush-holder. No. 967,527; Aug. 16; Sp. p. 3621; Gaz. vol. 157; p. 622.
Knight, Edward M., New York, N. Y. Apparatus for felting fibrous materials. No. 973,280; Oct. 18; Sp. p. 3901; Gaz. vol. 159; p. 668.
Knight, Frank, New Haven, Conn. Automobile-tool. No. 975,694; Nov. 15; Sp. p. 3598; Gaz. vol. 160; p. 606.
Knight, Frank P. H., Keokuk, Iowa, assignor to Electric Service Supplies Company, Camden, N. J. Lightning-arrester. (Reissue.) No. 13,141; Aug. 9; Sp. p. 2841; Gaz. vol. 157; p. 466.
Knight, James H., Westtown, Pa. Reinforced concrete construction. No. 961,619; June 14; Sp. p. 2853; Gaz. vol. 155; p. 493.
Knight, Jesse. (See Vivian, George G., assignor.)
Knight, Joseph, Holyhead, Anglesea, England. Power-turbine. No. 955,648; Apr. 19; Sp. p. 4231; Gaz. vol. 153; p. 733.
Knight, Maurice L., Baltimore, Md. Mausoleum. No. 979,965; Dec. 27; Sp. p. 5505; Gaz. vol. 161; p. 951.
Knight, Patrick H., St. Joseph, Mo. Stand-pipe for railway water-supply. No. 958,504; May 17; Sp. p. 4568; Gaz. vol. 154; p. 749.
Knight, Thomas H., Atlanta, Ga. Revolving book and file case. No. 969,959; Sept. 13; Sp. p. 1773; Gaz. vol. 158; p. 301.
Knight, Walter A., Pleasant Ridge, Ohio. Air-lift. No. 960,023; May 31; Sp. p. 7818; Gaz. vol. 154; p. 1314.
Knighten, William W. (See Pettit, Jonathan E., assignor.)
Knilans, William A., assignor to Crocker Chair Company, Sheboygan, Wis. Wood-bending machine. No. 977,804; Dec. 6; Sp. p. 838; Gaz. vol. 161; p. 132.
Knisely Brothers. (See Shean, Thomas P., assignor.)
Knobbs, Charles H., assignor of one-fourth to G. L. Hirtzel, Jr., and one-fourth to A. J. David, Elizabeth, N. J. Car-truck. No. 956,900; May 3; Sp. p. 871; Gaz. vol. 154; p. 139.
Knobel, Fred, Odessa, Nebr. Wrench. No. 948,332; Feb. 8; Sp. p. 1146; Gaz. vol. 151; p. 211.
Knobel, Fred, Odessa, Nebr. Cross-line buckle. No. 971,759; Oct. 4; Sp. p. 525; Gaz. vol. 159; p. 91.
Knobel, Fred, and E. F. Asay, Odessa, Nebr. Rail-chair. No. 975,536; Nov. 15; Sp. p. 3264; Gaz. vol. 160; p. 554.
Knobeloch, George R., Coraopolis, Pa. Nut and bolt lock. No. 969,786; Sept. 13; Sp. p. 1381; Gaz. vol. 158; p. 242.
Knock, George, Cleveland, Ohio. Filter. No. 956,366; Apr. 26; Sp. p. 5811; Gaz. vol. 153; p. 1010.
Knode, Oliver M., assignor to United States Gypsum Company, Chicago, Ill. Composition studding. No. 959,946; May 31; Sp. p. 7628; Gaz. vol. 154; p. 1287.
Knodle, Arthur, Leaf River, Ill. Woven-wire-fencing grip. No. 974,159; Nov. 1; Sp. p. 104; Gaz. vol. 160; p. 21.
Knoell, Walter E., Minneapolis, Minn. Clutch. No. 945,551; Jan. 4; Sp. p. 1184; Gaz. vol. 150; p. 182.
Knoerl, John, assignor of one-half to E. E. Walker, Covington, Ky. Means for securing glass panes in position. No. 974,575; Nov. 1; Sp. p. 1151; Gaz. vol. 160; p. 174.
Knoerzer, Otto, Hammond, Ind. Builder's trestle. No. 959,228; May 24; Sp. p. 6094; Gaz. vol. 154; p. 1019.
Knoerzer, Otto, Hammond, Ind. Carrying-yoke. No. 966,562; Aug. 9; Sp. p. 1575; Gaz. vol. 157; p. 268.
Knoevenagel, Emil, Heidelberg, Germany. Dyeing acetyl cellulose. No. 961,241; June 14; Sp. p. 2030; Gaz. vol. 155; p. 366.
Knoevenagel, Emil, Heidelberg, Germany. Dyeing acetyl-cellulose. No. 979,966; Dec. 27; Sp. p. 5507; Gaz. vol. 161; p. 952.
Knoke, Herman A., assignor to M. B. and H. H. Joseph, Chicago, Ill. Draw-clamp. No. 946,140; Jan. 11; Sp. p. 2478; Gaz. vol. 150; p. 414.
Knoll and Company. (See Lebach, Hans, assignor.)
Knoll and Company. (See Tambach, Rúdolf, assignor.)
Knoll, James H. (See Stern, Walter F., assignor.)
Knoll, Maximilian. (See Rubin, Robert, assignor.)
Knolle, Frederick, Milwaukee, Wis. Hoop. No. 973,671; Oct. 25; Sp. p. 4754; Gaz. vol. 159; p. 826.
Knoller, Jakob, Berlin, Germany. Brush. No. 980,161; Dec. 27; Sp. p. 5952; Gaz. vol. 161; p. 1016.
Knopf, Samuel, Vienna, Austria-Hungary. Making artificial ointment-bases. No. 971,681; Oct. 4; Sp. p. 359; Gaz. vol. 159; p. 63.
Knopf, Samuel, Vienna, Austria-Hungary. Transforming substances soluble in alcohol into emulsions in water. No. 978,307; Dec. 13; Sp. p. 1933; Gaz. vol. 161; p. 337.
Knopping, Hermann, Berlin, Germany. Album. No. 962,643; June 28; Sp. p. 5083; Gaz. vol. 155; p. 889.
Knorr, Leonhard, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Nuremberg, Germany. Heating apparatus for gas-holders. No. 968,167; Aug. 23; Sp. p. 4988; Gaz. vol. 157; p. 860.
Knott, Eustace R., Sharon, Mass. Candy-cutting machine. No. 949,434; Feb. 15; Sp. p. 3484; Gaz. vol. 151; p. 609.
Knott, Frederick, assignor of one-half to K. E. Greenawald, Portland, Oreg. Motion-picture machine. No. 969,288; Sept. 6; Sp. p. 290; Gaz. vol. 158; p. 47.
Knott, Jacob, Paterson, N. J. Apparatus for stretching and drying skeins of silk and like materials. No. 969,960; Sept. 13; Sp. p. 1775; Gaz. vol. 158; p. 302.
Knott, John T., Fort Wayne, Ind., assignor to Knott Van Arnam Manufacturing Company. Valve-operating mechanism. No. 959,758; May 31; Sp. p. 7194; Gaz. vol. 154; p. 1221.
Knott Van Arnam Manufacturing Company. (See Knott, John T., assignor.)
Knous, Franklin F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Take-down gun. No. 964,167; July 12; Sp. p. 2491; Gaz. vol. 156; p. 410.
Knowles, Albert E., Sutton Coldfield, England. Manufacture of carbonic-acid gas. No. 963,586; July 5; Sp. p. 1253; Gaz. vol. 156; p. 192.
Knowles, Belle, *et al.*, executors. (See Smith, Ashley C.)
Knowles, Camden E., assignor to Webb City & Carterville Foundry & Machine Works, Webb City, Mo. Ore-jigger. No. 973,281; Oct. 18; Sp. p. 3905; Gaz. vol. 159; p. 668.
Knowles, Charles H., New York, N. Y. Steam-boiler furnace. No. 945,959; Jan. 11; Sp. p. 2128; Gaz. vol. 150; p. 353.
Knowles, Charles S. (See Hirst, Harry R., assignor.)
Knowles, Charles S. (See Keefe, Joseph, assignor.)
Knowles, David L., J. Marvel, and C. Heselden, Danville, Ill. Self-clearing-bottom coal-car. No. 947,682; Jan. 25; Sp. p. 5948; Gaz. vol. 150; p. 990.
Knowles, Edwin R., Bridgeport, Conn. Brake. No. 946,057; Jan. 11; Sp. p. 2320; Gaz. vol. 150; p. 386.
Knowles, Eugene C. (See Avery and Knowles.)

Alphabetical list of patentees—Continued.

Knowles, Frederick W., and G. W. Inman, Thornhill Lees, near Dewsbury, England. Machine for manufacturing glass bottles, jars, and the like. No. 957,349; May 10; Sp. p. 1847; Gaz. vol. 154; p. 321.

Knowles, George E., New York, N. Y. Ventilating-valve. No. 971,047; Sept. 27; Sp. p. 4069; Gaz. vol. 158; p. 720.

Knowlson, Frederick. (See Irwin, Cullon, and Knowlson.)

Knowlton, Dallas, Washington, D. C. Jar-closure. No. 967,936; Aug. 23; Sp. p. 4440; Gaz. vol. 157; p. 782.

Knowlton, Gerry E., Sycamore, Ill. Swing. No. 950,568; Mar. 1; Sp. p. 226; Gaz. vol. 152; p. 37.

Knox, Charles P., Paterson, N. J., assignor of two-thirds to T. Malcolm and J. S. Kinne. Railway-switch lock. No. 976,082; Nov. 15; Sp. p. 4350; Gaz. vol. 160; p. 739.

Knox, George, New York, N. Y., assignor of one-half to J. L. Baker, Omaha, Nebr. Brine-cooler. No. 948,143; Feb. 1; Sp. p. 751; Gaz. vol. 151; p. 123.

Knox, George A., Dexter, N. Y. Plow. No. 963,901; July 12; Sp. p. 1950; Gaz. vol. 156; p. 320.

Knox, George A., Dexter, N. Y. Plow. No. 969,377; Sept. 6; Sp. p. 491; Gaz. vol. 158; p. 78.

Knox, Luther L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Regenerative reversing-furnace. No. 951,644; Mar. 8; Sp. p. 2395; Gaz. vol. 152; p. 415.

Knox, Luther L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Regenerative reversing-furnace. No. 956,367; Apr. 26; Sp. p. 5814; Gaz. vol. 153; p. 1010.

Knox, Luther L., Avalon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Furnace. No. 973,943; Oct. 25; Sp. p. 5300; Gaz. vol. 159; p. 920.

Knox, Luther L., Avalon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Regenerative reversing-furnace. No. 978,822; Dec. 13; Sp. p. 3008; Gaz. vol. 161; p. 510.

Knox, Nelson F., Brooklyn, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 968,060; Aug. 23; Sp. p. 4715; Gaz. vol. 157; p. 823.

Knox, Nelson F., Brooklyn, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 975,770; Nov. 15; Sp. p. 3748; Gaz. vol. 160; p. 632.

Knox, Orville M., Knoxboro, N. Y. Rail-clip. No. 948,375; Feb. 8; Sp. p. 1254; Gaz. vol. 151; p. 226.

Knox, Robert, Dunedin, New Zealand. Fresh-air level inlet for house or other drainage. No. 950,332; Feb. 22; Sp. p. 5407; Gaz. vol. 151; p. 948.

Knox, Samuel L. G., Milwaukee, Wis. Turn-table mechanism for railway pile-drivers and the like. No. 975,048; Nov. 8; Sp. p. 2204; Gaz. vol. 160; p. 359.

Knox, Walter H., Hannibal, Mo. Cement or concrete refrigerator. No. 952,817; Mar. 22; Sp. p. 4833; Gaz. vol. 152; p. 869.

Knox, William, *et al.* (See Malone, Frank, assignor.)

Knu Light Heat and Power Company. (See Wiggins, Edward J., assignor.)

Knudsen, Edward J. (See Knudsen, Henry C. and E. J.)

Knudsen, Hans, and H. Barta, London, England. Keyboard-operating mechanism. No. 946,230; Jan. 11; Sp. p. 2680; Gaz. vol. 150; p. 446.

Knudsen, Henry C. and E. J., Cleveland, Ohio. Skate-jig. No. 976,186; Nov. 22; Sp. p. 4629; Gaz. vol. 160; p. 797.

Knuppen, Peter, Milwaukee, Wis. Spring-cushion. No. 975,695; Nov. 15; Sp. p. 3599; Gaz. vol. 160; p. 607.

Knurr, John, Jr., Indianapolis, Ind. Tool for removing piano-hammers. No. 949,905; Feb. 22; Sp. p. 4484; Gaz. vol. 151; p. 800.

Knutson, Knut, Christiania, Norway. Double-corrugated sheet-iron. No. 948,733; Feb. 8; Sp. p. 2020; Gaz. vol. 151; p. 346.

Knutter, Charles C., Henryetta, Okla. Store furniture. No. 975,049; Nov. 8; Sp. p. 2205; Gaz. vol. 160; p. 359.

Kny Scheerer Company, The. (See Taubert, Albert, assignor.)

Koberstein, George J., Baldwin, Wis. Landing-net. No. 959,555; May 31; Sp. p. 6786; Gaz. vol. 154; p. 1154.

Koch, Adolph H., Los Angeles, Cal. Vending-machine. No. 977,745; Dec. 6; Sp. p. 717; Gaz. vol. 161; p. 112.

Koch, Alfred, Remscheid, Germany, assignor to The S. S. White Dental Mfg. Co., Philadelphia, Pa. Plate-punch. No. 956,368; Apr. 26; Sp. p. 5817; Gaz. vol. 153; p. 1011.

Koch, Alfred S., Lancaster, Pa. Engraver's tool. No. 951,535; Mar. 8; Sp. p. 2184; Gaz. vol. 152; p. 379.

Koch, Arthur A., Albert Lea, Minn. Corrugated culvert and producing same. No. 946,919; Jan. 18; Sp. p. 4306; Gaz. vol. 150; p. 706.

Koch, Charles, Brooklyn, N. Y. Shoe-ventilator. No. 950,333; Feb. 22; Sp. p. 5408; Gaz. vol. 151; p. 948.

Koch, Felix, Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-underframe end construction. No. 947,339; Jan. 25; Sp. p. 5194; Gaz. vol. 150; p. 876.

Koch, Felix, Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Car draft-rigging. No. 949,798; Feb. 22; Sp. p. 4218; Gaz. vol. 151; p. 761.

Koch, Frederick W. (See Blanchard, Uhl, and Koch.)

Koch, Fritz, St. Paul, Minn. Machine for trimming building-blocks. No. 945,847; Jan. 11; Sp. p. 1882; Gaz. vol. 150; p. 313.

Koch, George F., La Cygne, Kans. Corn-husker. No. 945,173; Jan. 4; Sp. p. 340; Gaz. vol. 150; p. 58.

Koch, Henry, assignor to The Regina Company, Rahway, N. J. Mercury-switch. No. 972,542; Oct. 11; Sp. p. 2239; Gaz. vol. 159; p. 386.

Koch, Norbert, assignor to Fried. Krupp Actiengesellschaft, Essen-on-the-Ruhr, Germany. Spade for portable recoil-guns. No. 962,032; June 21; Sp. p. 3727; Gaz. vol. 155; p. 654.

Koch, William E. (See Lutz, Alexander T., assignor.)

Kochersperger, Elsie A., Brooklyn, N. Y. Hat-pin holder. No. 972,199; Oct. 11; Sp. p. 1501; Gaz. vol. 159; p. 266.

Koczwara, Ludwig, Prague-Kgl. Weinberge, Austria-Hungary. Oil-burning furnace. No. 971,902; Oct. 4; Sp. p. 842; Gaz. vol. 159; p. 145.

Koeb, Emil. (See Thompson and Koeb.)

Koeberle, Robert J., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Saw-clamp. No. 979,967; Dec. 27; Sp. p. 5507; Gaz. vol. 161; p. 952.

Koechlin, Albert G., Steinen, Germany, assignor, by mesne assignments, to Genossenschaft für Textilpatente, Basel, Switzerland. Ring-spinning machine. No. 965,306; July 26; Sp. p. 4977; Gaz. vol. 156; p. 857.

Koechlin, Albert G., Steinen, Germany, assignor, by mesne assignments, to Genossenschaft für Textilpatente, Basel, Switzerland. Spool-changing apparatus for looms. No. 971,541; Oct. 4; Sp. p. 67; Gaz. vol. 159; p. 13.

Koecke, Charles F., Newark, Ohio. Newspaper-holder. No. 977,454; Dec. 6; Sp. p. 56; Gaz. vol. 161; p. 12.

Koegler, Albert, San Francisco, Cal., and K. Stelzer, Jr., Dresden, Germany. Means for steering flying-machines. No. 954,574; Apr. 12; Sp. p. 1868; Gaz. vol. 153; p. 334.

Koegler, August J., Milwaukee, Wis. Agitator for grain-heaters. No. 960,024; May 31; Sp. p. 7820; Gaz. vol. 154; p. 1314.

Koegler, August J., Milwaukee, Wis. Sectional grain-heater. No. 969,484; Sept. 6; Sp. p. 701; Gaz. vol. 158; p. 111.

Koegler, August J., Milwaukee, Wis. Agitator for grain-heaters. No. 971,048; Sept. 27; Sp. p. 4071; Gaz. vol. 158; p. 721.

Koehler, Andrew R. (See Benedict, George H., assignor.)

Koehler, Ernest F., London, England. Igniter. No. 972,386; Oct. 11; Sp. p. 1884; Gaz. vol. 159; p. 331.

Koehler, Frederick G., assignor to The Borden Company, Warren, Ohio. Adjustable die-stock. No. 964,435; July 12; Sp. p. 3022; Gaz. vol. 156; p. 498.

Koehler, George E., Ainsworth, Iowa. Draft-evener. No. 963,902; July 12; Sp. p. 1951; Gaz. vol. 156; p. 321.

Koehler, John F., Sawyer, Mich. Mouth-speculum. No. 964,110; July 12; Sp. p. 2392; Gaz. vol. 156; p. 392.

Koehler, John F., West Hammond, Ill. Mouth-speculum. No. 976,812; Nov. 22; Sp. p. 5992; Gaz. vol. 160; p. 1012.

Koehler, Victor J., Punxsutawney, Pa. Cock-controlling device for air-brake systems. No. 952,121; Mar. 15; Sp. p. 3355; Gaz. vol. 152; p. 604.

Koehn, August W. (See Knasinski, Joseph A., assignor.)

Koehring, Philip A., Wauwatosa, Wis. Mixing-machine. No. 948,996; Feb. 15; Sp. p. 2559; Gaz. vol. 151; p. 460.

Koelblen, John B., Milwaukee, Wis. Water-meter. No. 972,200; Oct. 11; Sp. p. 1502; Gaz. vol. 159; p. 266.

Koelkebeck, Carl W. A., Cleveland, Ohio. Valve. No. 948,649; Feb. 8; Sp. p. 1844; Gaz. vol. 151; p. 317.

Koelling, Edward. (See Limberg and Koelling.)

Koenig, George F., Le Sueur, Minn. Hoisting device. No. 957,969; May 17; Sp. p. 3185; Gaz. vol. 154; p. 562.

Koenig, Harry, Philadelphia, Pa. Self-heating soldering-iron. No. 959,947; May 31; Sp. p. 7629; Gaz. vol. 154; p. 1287.

Koenig, Johann, Riga, Russia. Flexible pipe-joint. No. 979,513; Dec. 27; Sp. p. 4515; Gaz. vol. 161; p. 797.

Koenig, Johann, Riga, Russia, assignor of one-half to E. Witzenmann, Pforzheim, Germany. Safety device for piping. No. 945,552; Jan. 4; Sp. p. 1186; Gaz. vol. 150; p. 183.

Koenig, Otto A., assignor to Koenig Wagon Company, Kansas City, Mo. Brake-shoe. No. 950,486; Mar. 1; Sp. p. 47; Gaz. vol. 152; p. 9.

Koenig Wagon Company. (See Koenig, Otto A., assignor.)

Koepp & Co., Rudolph. (See Weise and Rieche, assignors.)

Koerber, Charles H., Ionia, Mich. Time-recorder. No. 976,375; Nov. 22; Sp. p. 5079; Gaz. vol. 160; p. 862.

Koerber, James L., Houston, Tex. Combined battery-receptacle and bell-support. No. 962,033; June 21; Sp. p. 3729; Gaz. vol. 155; p. 655.

Koerkle, Frank D., assignor of three-eighths to S. L. Richardson, New York, N. Y. Refrigerating apparatus. No. 959,556; May 31; Sp. p. 6787; Gaz. vol. 154; p. 1154.

Koerner, Albin. (See Trumpold and Koerner.)

Koerner, Ferdinand H., Newark, N. J. Combination-tool. No. 947,002; Jan. 18; Sp. p. 4456; Gaz. vol. 150; p. 734.

Koerner, Ferdinand H., Irvington, N. J., assignor of one-half to A. Lowentraut. Apparatus or machine for grinding and polishing skate-runners. No. 951,401; Mar. 8; Sp. p. 1919; Gaz. vol. 152; p. 333.

Alphabetical list of patentees—Continued.

Koerner, John W. (See Seib and Koerner.)
Koerner, Josephine, Irvington, N. J. Fruit and vegetable mill. No. 967,393; Aug. 16; Sp. p. 3345; Gaz. vol. 157; p. 577.
Koertner, Conrad W., Pearl City, Ill. Dust-pan. No. 958,255; May 17; Sp. p. 3928; Gaz. vol. 154; p. 661.
Koessler, Harry B. (See Donnelly, Koessler, and Weinzierl.)
Koester, William, Fairfax, S. D. Straw-rack for grain-separators. No. 966,693; Aug. 9; Sp. p. 1826; Gaz. vol. 157; p. 312.
Koesters, Fredrick W., St. Louis, Mo. Folding chicken-coop. No. 978,759; Dec. 13; Sp. p. 2903; Gaz. vol. 161; p. 491.
Koethe, William, Jr., Brinkman Ridge, Wis. Counterbalance for water-pumps. No. 948,227; Feb. 1; Sp. p. 916; Gaz. vol. 151; p. 150.
Koetitz, Frederick A. (See Finch and Koetitz.)
Koetitz, Frederick A., San Francisco, Cal. Fitting for pile-casings. No. 954,973; Apr. 12; Sp. p. 2798; Gaz. vol. 153; p. 474.
Koett, Henry A., Ottumwa, Iowa. Hat-hanger. No. 954,974; Apr. 12; Sp. p. 2800; Gaz. vol. 153; p. 474.
Kofske, Charles H., Waterloo, Iowa. Brake-beam. No. 979,968; Dec. 27; Sp. p. 5508; Gaz. vol. 161; p. 952.
Koharu, Rokuro, New York, N. Y. Siphon. No. 979,170; Dec. 20; Sp. p. 3823; Gaz. vol. 161; p. 661.
Kohke, John, Atlanta, Ga., assignor to American Can Company, New York, N. Y. Duplex-horn seam-closing mechanism. No. 978,308; Dec. 13; Sp. p. 1933; Gaz. vol. 161; p. 338.
Kohl, Christian W., assignor of nine-twentieths to G. E. Seltsinger, Cedar Rapids, Iowa. Combined screen and storm door. No. 964,111; July 12; Sp. p. 2395; Gaz. vol. 156; p. 392.
Kohlen, Barthelemy, Brussels, Belgium. Burglar and fire alarm. No. 950,853; Mar. 1; Sp. p. 833; Gaz. vol. 152; p. 134.
Kohler, Alice A., Ashland, Ohio. Combined rake and hoe. No. 975,254; Nov. 8; Sp. p. 2662; Gaz. vol. 160; p. 430.
Kohler, Charles. (See Danquard and Pfannstiehl, assignors.)
Kohler, Ernest, assignor of one-half to J. Allemann, Alameda, Cal. Amusement apparatus. No. 979,171; Dec. 20; Sp. p. 3825; Gaz. vol. 161; p. 661.
Kohler, Frank F., South Zanesville, Ohio. Automobile transmission-gearing. No. 967,786; Aug. 16; Sp. p. 4134; Gaz. vol. 157; p. 708.
Kohler, George B. (See Bucknam and Kohler.)
Kohler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Fare-box. No. 961,076; June 7; Sp. p. 1695; Gaz. vol. 155; p. 281.
Kohler, John F., New York, N. Y. Slicing mechanism. No. 956,369; Apr. 26; Sp. p. 5818; Gaz. vol. 153; p. 1011.
Kohler, Karl, Neustadt, Schwarzwald, Germany. Flush-tank. No. 962,765; June 28; Sp. p. 5339; Gaz. vol. 155; p. 933.
Köhler, Willy, Bremen, Germany. Electrically-propelled vehicle. No. 972,457; Oct. 11; Sp. p. 2031; Gaz. vol. 159; p. 356.
Köhler, Willy, Bremen, Germany. Current-collector for electrically-propelled vehicles. No. 973,672; Oct. 25; Sp. p. 4755; Gaz. vol. 159; p. 826.
Kohlhepp, John W., Chicago, Ill., assignor to The Allbright-Nell Company. Flexible beater and scraper. No. 971,049; Sept. 27; Sp. p. 4072; Gaz. vol. 158; p. 721.
Kohlweyer, Henry R., Pittsburg, Pa. Cuff-button. No. 974,976; Nov. 8; Sp. p. 2057; Gaz. vol. 160; p. 335.
Kohn, George L., Grover Hill, Ohio. Folding carrying case and stand. No. 979,075; Dec. 20; Sp. p. 3570; Gaz. vol. 161; p. 624.
Kohn, H. C., *et al.* (See Trautner, Nicholas W., assignor.)
Kohn, Heinrich. (See Erlenbach and Kohn.)
Kohn, Jacob, New York, N. Y. Sliding-door-locking device. No. 967,787; Aug. 16; Sp. p. 4136; Gaz. vol. 157; p. 709.
Kohn, Jacob, assignor to E. R. Fuchs, New York, N. Y. Door-securer. No. 977,316; Nov. 29; Sp. p. 7121; Gaz. vol. 160; p. 1212.
Kohn, Koby, Lincoln, Nebr., assignor to The Rail Joint Company. Insulated joint for railway-rails. (Reissue.) No. 13,079; Jan. 25; Sp. p. 6131; Gaz. vol. 150; p. 1022.
Kohn, Paul, Detroit, Mich. Music-leaf turner. No. 948,511; Feb. 8; Sp. p. 1542; Gaz. vol. 151; p. 272.
Kohne, Anthony H., Coupeville, Wash. Device for removing obstacles from the throats of cattle. No. 961,500; June 14; Sp. p. 2604; Gaz. vol. 155; p. 454.
Kohnes, Henry W., assignor of one-third to C. W. Alday, Dayton, Ohio. Pencil-sharpener. No. 954,812; Apr. 12; Sp. p. 2442; Gaz. vol. 153; p. 417.
Kohout, Alois, St. Louis, Mo. Tobacco-pouch. No. 954,034; Apr. 5; Sp. p. 705; Gaz. vol. 153; p. 124.
Kohout, Frederick, and R. C. Langley; said Kohout assignor to G. Langley, Dallas, Tex. Headlight. No. 976,468; Nov. 22; Sp. p. 5280; Gaz. vol. 160; p. 896.
Koken, Ernest E., deceased, St. Louis, Mo.; W. F. Koken, executor. Sanitary head-rest. No. 950,854; Mar. 1; Sp. p. 835; Gaz. vol. 152; p. 134.
Koken, Ernest E., deceased, St. Louis, Mo.; W. F. Koken, executor. Clamp. No. 954,524; Apr. 12; Sp. p. 1770; Gaz. vol. 153; p. 318.
Koken, Ernest E., deceased, St. Louis, Mo.; W. F. Koken, executor. Barber-chair seat. No. 957,970; May 17; Sp. p. 3190; Gaz. vol. 154; p. 562.
Koken, Ernest E., deceased, St. Louis, Mo.; W. F. Koken, executor. Two-way faucet. No. 960,558; June 7; Sp. p. 655; Gaz. vol. 155; p. 107.
Koken, Ernest E., deceased, St. Louis, Mo.; W. F. Koken, executor. Sanitary head-rest. No. 977,805; Dec. 6; Sp. p. 840; Gaz. vol. 161; p. 132.
Koken, Walter F., executor. (See Koken, Ernest E.)
Kokesh, Jerry J., St. Louis, Mo. Acetylene-gas generator. No. 949,960; Feb. 22; Sp. p. 4588; Gaz. vol. 151; p. 820.
Kokomo Rubber Company. (See Neary, John, assignor.)
Kokosky, Isidor, *et al.* (See Goldberg, George, assignor.)
Kolb, Henry. (See Lovell, Robert M., assignor.)
Kolb, Henry M., Philadelphia, Pa. Firing-pin for hammers for firearms. No. 954,190; Apr. 5; Sp. p. 1048; Gaz. vol. 153; p. 177.
Kolb, Henry M., Philadelphia, Pa. Firearm. No. 954,191; Apr. 5; Sp. p. 1050; Gaz. vol. 153; p. 178.
Kolb, Henry M., Philadelphia, Pa. Firearm. No. 959,229; May 24; Sp. p. 6096; Gaz. vol. 154; p. 1019.
Kolb, Louis J., Philadelphia, Pa. Bake-oven. No. 968,168; Aug. 23; Sp. p. 4990; Gaz. vol. 157; p. 860.
Kolf, Max, St. Louis, assignor of one-third to E. Maendlen, one-third to W. F. Meyer, St. Louis, and one-third to National Cob Pipe Works, Union, Mo. Pipe-stem. No. 952,337; Mar. 15; Sp. p. 3787; Gaz. vol. 152; p. 677.
Kolischer, Wladislaw. (See Schitka, Ferdinand, assignor.)
Kolin, James, assignor of one-half to W. E. Smith, Chicago, Ill. Trolley for electrically-propelled vehicles. No. 960,559; June 7; Sp. p. 661; Gaz. vol. 155; p. 108.
Kollenberg, Frederick G., Owensboro, Ky. File-cabinet. No. 977,636; Dec. 6; Sp. p. 493; Gaz. vol. 161; p. 74.
Kollenberg, Frederick G., assignor of one-half to T. J. Turley, Owensboro, Ky. Lock-washer. No. 945,127; Jan. 4; Sp. p. 243; Gaz. vol. 150; p. 42.
Kollenberg, Frederick G., assignor of one-half to P. R. Lancaster, Owensboro, Ky. Funnel. No. 947,917; Feb. 1; Sp. p. 285; Gaz. vol. 151; p. 48.
Koller, John, Newark, N. J., assignor to The American Coal Chute Co. and Architectural Iron Works. Drier or oven. No. 954,743; Apr. 12; Sp. p. 2272; Gaz. vol. 153; p. 394.
Koller, John J., *et al.* (See Haller, Edward, assignor.)
Kolstrom, John, Ryder, N. D. Twyer-iron. No. 961,451; June 14; Sp. p. 2488; Gaz. vol. 155; p. 437.
Koltonski, Stanislaw A., Boston, Mass. Snap-switch. No. 972,387; Oct. 11; Sp. p. 1886; Gaz. vol. 159; p. 331.
Koltonski, Stanislaw A., assignor to Electro Mechanical Works, Boston, Mass. Telephone switch apparatus. No. 947,340; Jan. 25; Sp. p. 5195; Gaz. vol. 150; p. 876.
Komarek, Gustav, St. Louis, Mo. Mixing apparatus for briquet-machines. No. 959,062; May 24; Sp. p. 5748; Gaz. vol. 154; p. 964.
Komarek, Gustav, St. Louis, Mo. Briquet-machine. No. 969,540; Sept. 6; Sp. p. 833; Gaz. vol. 158; p. 132.
Kommers, Isaac, Jr., Chicago, Ill. Screen for car-openings. No. 947,413; Jan. 25; Sp. p. 5367; Gaz. vol. 150; p. 899.
Komura, Sanemon, San Jose, Cal. Dress chart and templet. No. 956,370; Apr. 26; Sp. p. 5826; Gaz. vol. 153; p. 1011.
Kondás, Alexandar. (See Bajusz and Kondás.)
Kondás, Alexandar, and P. Bajusz, Woodriver, Ill. Pipe-wrench. No. 962,359; June 21; Sp. p. 4447; Gaz. vol. 155; p. 767.
Köneman, William A., Cudahy, Wis. Vehicle-tire. No. 949,375; Feb. 15; Sp. p. 3359; Gaz. vol. 151; p. 587.
Köneman, William A., Chicago, Ill. Garter. No. 968,857; Aug. 30; Sp. p. 6446; Gaz. vol. 157; p. 1122.
Konerman, Harry, Newport, Ky., assignor to The Globe Register Company, Cincinnati, Ohio. Autographic register. No. 957,567; May 10; Sp. p. 2278; Gaz. vol. 154; p. 394.
König, Albert, assignor to Firm of C. Zeiss, Jena, Germany. Binocular telescope. No. 947,971; Feb. 1; Sp. p. 404; Gaz. vol. 151; p. 65.
König, Albert, assignor to Firm of C. Zeiss, Jena, Germany. Gun-bore sighting-telescope. No. 953,696; Apr. 5; Sp. p. 35; Gaz. vol. 153; p. 9.
König, Walter, Dresden, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Red basic dye. No. 947,918; Feb. 1; Sp. p. 287; Gaz. vol. 151; p. 48.
König, Walter, Dresden, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow to red basic dyes. No. 949,906; Feb. 22; Sp. p. 4485; Gaz. vol. 151; p. 801.
Konold, Matthew J., Pittsburg, Pa. Steam-trap. No. 979,172; Dec. 20; Sp. p. 3827; Gaz. vol. 161; p. 662.
Konstantinides, George, East Pittsburg, Pa. Stool. No. 965,113; July 19; Sp. p. 4568; Gaz. vol. 156; p. 762.
Koogler, John B., assignor of one-half to C. H. Robinsteen, Indiana, Pa. Tanning apparatus. No. 957,350; May 10; Sp. p. 1849; Gaz. vol. 154; p. 321.
Kooken, Robert A., Fort Worth, Tex. Ointment-applier. No. 963,051; July 5; Sp. p. 50; Gaz. vol. 156; p. 10.
Koonce, Albert A. (See Dowden, John W., assignor.)

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Koons, Joseph K., Montgomery, Pa. Transmission-gearing. No. 958,256; May 17; Sp. p. 3929; Gaz. vol. 154; p. 661.
Koontz, John H., Culver, Ind. Carbureter. No. 975,696; Nov. 15; Sp. p. 3600; Gaz. vol. 160; p. 607.
Koors, Frank J. (See Cody and Koors.)
Kootz, William, Milwaukee, Wis. Shock-absorber for vehicles. No. 973,516; Oct. 25; Sp. p. 4415; Gaz. vol. 159; p. 772.
Kootz, William, Milwaukee, Wis. Vehicle-frame. No. 973,517; Oct. 25; Sp. p. 4416; Gaz. vol. 159; p. 772.
Kopal, Peter, Prague-Königl, Austria-Hungary. Coin-freed lock for caretakers. No. 948,295; Feb. 1; Sp. p. 1069; Gaz. vol. 151; p. 173.
Kopietz, Julius, Detroit, Mich. Key-extractor. No. 977,018; Nov. 29; Sp. p. 6508; Gaz. vol. 160; p. 1110.
Kopp, John N., Leavenworth, Kans. Ice-saw. No. 976,661; Nov. 22; Sp. p. 5690; Gaz. vol. 160; p. 962.
Kopp, Robert, Belmar, N. J. Time-recorder. No. 964,475; July 12; Sp. p. 3105; Gaz. vol. 156; p. 510.
Koppe, Earl W. (See Jones and Koppe.)
Koppel, Mihkel, Philadelphia, Pa. Eye-cover or blinker for bridles. No. 960,648; June 7; Sp. p. 839; Gaz. vol. 155; p. 137.
Koppelman, Morris, New York, N. Y. Coat-collar. (Reissue.) No. 13,104; Apr. 19; Sp. p. 4645; Gaz. vol. 153; p. 801.
Kopper, Heinrich, Bruchhausen, Germany. Regulating and reversing apparatus. No. 956,106; Apr. 26; Sp. p. 5237; Gaz. vol. 153; p. 921.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Preventing the destruction of coke-oven walls through the alkalies contained in the charge. No. 945,331; Jan. 4; Sp. p. 718; Gaz. vol. 150; p. 110.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Obtaining ammonia from gas. No. 945,332; Jan. 4; Sp. p. 719; Gaz. vol. 150; p. 110.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Recovering ammonium sulfate from gas. No. 953,959; Apr. 5; Sp. p. 537; Gaz. vol. 153; p. 97.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Ammonia-saturator. No. 953,960; Apr. 5; Sp. p. 538; Gaz. vol. 153; p. 98.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Distilling coal. No. 956,371; Apr. 26; Sp. p. 5827; Gaz. vol. 153; p. 1012.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Quenching coke. No. 958,651; May 17; Sp. p. 4854; Gaz. vol. 154; p. 797.
Kopren, Amund J., Kearney, Nebr. Building-wall. No. 953,534; Mar. 29; Sp. p. 6370; Gaz. vol. 152; p. 1140.
Kopriwa, Emanuel. (See Salstrom, David B., assignor.)
Kops Bros. (See Kops, Samuel, assignor.)
Kops Bros. (See Kops and Buchanan, assignors.)
Kops, Daniel, New York, N. Y. Apparel-corset. No. 946,231; Jan. 11; Sp. p. 2684; Gaz. vol. 150; p. 446.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 946,232; Jan. 11; Sp. p. 2687; Gaz. vol. 150; p. 447.
Kops, Daniel, New York, N. Y. Hose-supporter belt. No. 961,501; June 14; Sp. p. 2605; Gaz. vol. 155; p. 454.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 967,645; Aug. 16; Sp. p. 3850; Gaz. vol. 157; p. 661.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 968,365; Aug. 23; Sp. p. 5385; Gaz. vol. 157; p. 929.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 975,771; Nov. 15; Sp. p. 3755; Gaz. vol. 160; p. 632.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 975,772; Nov. 15; Sp. p. 3756; Gaz. vol. 160; p. 633.
Kops, Daniel, New York, N. Y., and J. J. Buchanan, Waterbury, Conn., assignors to Kops Bros., New York, N. Y. Clasp or buckle. No. 974,977; Nov. 8; Sp. p. 2059; Gaz. vol. 160; p. 336.
Kops, Samuel, assignor to Kops Bros., New York, N. Y. Garment-supporter. No. 950,855; Mar. 1; Sp. p. 838; Gaz. vol. 152; p. 134.
Korab, William G., Spencer, Nebr. Cement-block machine. No. 953,208; Mar. 29; Sp. p. 5656; Gaz. vol. 152; p. 1027.
Koraleski, Frank W. (See Ksiažek, Ignacy, assignor.)
Korallis, Max, Hamburg, Germany. Cutting device for bread, meat, and the like. No. 954,112; Apr. 5; Sp. p. 868; Gaz. vol. 153; p. 150.
Koref, Richard, Vienna, Austria-Hungary. Waste-cleaner for ring-spinning machines. No. 954,975; Apr. 12; Sp. p. 2801; Gaz. vol. 153; p. 474.
Koref, Richard, Vienna, Austria-Hungary. Doffer or knocking-off apparatus for the doffer-rollers of carding-machines. No. 966,565; Aug. 9; Sp. p. 1580; Gaz. vol. 157; p. 269.
Koressel, Henry B., Howell, Ind. Weed and grass destroyer. No. 968,772; Aug. 30; Sp. p. 6278; Gaz. vol. 157; p. 1096.
Korf, Samuel, Chicago, Ill. Pocket-article guard. No. 955,596; Apr. 19; Sp. p. 4112; Gaz. vol. 153; p. 715.
Korff, Edward W. (See Deemer and Korff.)
Korfhage, Herman C., New Albany, Ind. Clock-synchronizing system. No. 970,241; Sept. 13; Sp. p. 2358; Gaz. vol. 158; p. 398.
Kořinek, Gustav, Detroit, Mich. Machines for manufacturing punches, dies, and other articles. No. 950,792; Mar. 1; Sp. p. 717; Gaz. vol. 152; p. 115.
Korn, Herrmann E., and E. Kuhn, East Orange, N. J. Apparatus for preparing infusions. No. 975,874; Nov. 15; Sp. p. 3957; Gaz. vol. 160; p. 667.
Kornberg, Ole, Superior, Wis. Adjustable ratchet-wrench. No. 968,858; Aug. 30; Sp. p. 6448; Gaz. vol. 157; p. 1123.
Kornblueh, Joseph H., *et al.* (See Ellendman, Jacob E., assignor.)
Kornbrodt, Theodore, Chicago, Ill. Airship. No. 962,964; June 28; Sp. p. 5705; Gaz. vol. 155; p. 1000.
Körner, Moritz, Grünau, Germany. Devulcanizing india-rubber. No. 953,094; Mar. 29; Sp. p. 5410; Gaz. vol. 152; p. 991.
Kornmayer, Christian. (See Voigt and Kornmayer.)
Koros, George, Philadelphia, Pa. Car-fender. No. 962,226; June 21; Sp. p. 4162; Gaz. vol. 155; p. 722.
Korselt, Evald, and A. Thomas, Ghent, Belgium. Manufacturing yarns and fabrics by the special utilization of washed flax-waste. No. 951,251; Mar. 8; Sp. p. 1588; Gaz. vol. 152; p. 284.
Körting, Ernst G. B., Mariendorf, near Berlin, Germany. Charging upright gas-retorts. No. 955,970; Apr. 26; Sp. p. 4948; Gaz. vol. 153; p. 874.
Körting & Mathiesen Aktiengesellschaft. (See Rensing, Theodor J., assignor.)
Körtling, Conrad, and C. Jaentsch, Cassel, Germany. Manufacture of building-blocks. No. 957,351; May 10; Sp. p. 1850; Gaz. vol. 154; p. 322.
Korwin-Krukovsky, Juri. (See Boeckel, Grunberg, Korwin-Krukovsky, and Luxembourg.)
Kosack, Paul, Omaha, Nebr. Wall-tie for buildings. No. 963,776; July 12; Sp. p. 1665; Gaz. vol. 156; p. 278.
Kosack, Paul, Omaha, Nebr. Tie-strip for porch-columns. No. 963,777; July 12; Sp. p. 1667; Gaz. vol. 156; p. 279.
Kosack, Paul, Omaha, Nebr. Block-holding means for walls. No. 963,778; July 12; Sp. p. 1669; Gaz. vol. 156; p. 279.
Kosack, Paul, Omaha, Nebr. Wall-tie. No. 963,779; July 12; Sp. p. 1670; Gaz. vol. 156; p. 279.
Kosack, Paul, Omaha, Nebr. Wall-stirrup. No. 969,289; Sept. 6; Sp. p. 293; Gaz. vol. 158; p. 48.
Koschke, Edward E., Chicago, Ill. Putty-knife. No. 980,177; Dec. 27; Sp. p. 6003; Gaz. vol. 161; p. 1022.
Koskine, John, Detroit, Mich. Flying-machine. No. 958,747; May 24; Sp. p. 5060; Gaz. vol. 154; p. 855.
Koss, Richard, Münster, Germany. Ship's towing system. No. 955,412; Apr. 19; Sp. p. 3712; Gaz. vol. 153; p. 652.
Kossel, Andrew, Collinwood, Ohio. Anvil for steam-hammers. No. 945,786; Jan. 11; Sp. p. 1728; Gaz. vol. 150; p. 290.
Kossel, Lewis. (See Propp, Herman, assignor.)
Kossow, Henry C., Milwaukee, Wis. Fly-trap sash attachment. No. 972,873; Oct. 18; Sp. p. 2971; Gaz. vol. 159; p. 526.
Kostanjevic, Rudolf, J. Matzenik, and F. Gessi, Trieste, Austria-Hungary. Turbine. No. 969,541; Sept. 6; Sp. p. 838; Gaz. vol. 158; p. 132.
Koster, Frederick J. (See Marten, Henry F., assignor.)
Kosters, Clements B., Buffalo, N. Y. Shoe-tree. No. 947,387; Jan. 25; Sp. p. 5301; Gaz. vol. 150; p. 891.
Kosters, Clements B., Buffalo, N. Y. Shoe-form. No. 969,165; Sept. 6; Sp. p. 32; Gaz. vol. 158; p. 8.
Kosters, Clements B., Buffalo, N. Y. Folding last. No. 978,309; Dec. 13; Sp. p. 1935; Gaz. vol. 161; p. 338.
Kostlan, Frank, Traer, Iowa. Washing-machine drive-gearing. No. 955,413; Apr. 19; Sp. p. 3713; Gaz. vol. 153; p. 652.
Kothe, Richard. (See Dressel, Kothe, and Hoerlein.)
Kotowinski, Konstanty, *et al.* (See Friedberg, Guido, assignor.)
Kotrucz, Paul. (See Horvath and Kotrucz.)
Kotten, Herman G., Englewood, N. J., assignor to H. G. Kotten Company, New York, N. Y. Vacuum cleaning apparatus. No. 975,435; Nov. 15; Sp. p. 3034; Gaz. vol. 160; p. 518.
Kottum, Peter J., Sacred Heart, Minn. Animal-trap. No. 958,505; May 17; Sp. p. 4570; Gaz. vol. 154; p. 750.
Kouns, James H., Eugene, Oreg. Level. No. 959,759; May 31; Sp. p. 7195; Gaz. vol. 154; p. 1221.
Kouns Manufacturing Company. (See Frayer and Howard, assignors.) (Reissue.)
Kouns, Moses W., deceased; Allen B. Whitney, administrator, assignor to The Ohio Manufacturing Company, Upper Sandusky, Ohio. Reversible transmission-gearing. No. 953,846; Apr. 5; Sp. p. 328; Gaz. vol. 153; p. 58.
Kovacic, Blasius, East Pittsburg, Pa. Extinguisher for lamps and lanterns. No. 971,282; Sept. 27; Sp. p. 4555; Gaz. vol. 158; p. 797.
Kovacs, Dyonis, Rochester, N. Y. Vise. No. 947,919; Feb. 1; Sp. p. 289; Gaz. vol. 151; p. 48.
Kovács, Michael. (See Hajdú and Kovács.)
Kovács, Peter, assignor of one-half to M. Meyerson, New York, N. Y. Screw-propeller. No. 945,553; Jan. 4; Sp. p. 1186; Gaz. vol. 150; p. 183.
Kovács, Victor. (See Bayusz and Kovács.)
Kovacsy, John. (See Mason, Robert J., assignor.)
Kovalsky, Wladimir I., Stanzia Zdolbunoff R. R. Colony, Russia, assignor to F. A. Evdokimoff, New York, N. Y. Starting-valve for compound engines. No. 963,375; July 5; Sp. p. 823; Gaz. vol. 156; p. 121.

Alphabetical list of patentees—Continued.

Kovatch, Lotte, Oliveburg, Pa. Coal-mining machine. No. 960,958; June 7; Sp. p. 1436; Gaz. vol. 155; p. 241.
Kovatch, Lotte, Oliveburg, Pa. Wrench. No. 967,788; Aug. 16; Sp. p. 4139; Gaz. vol. 157; p. 709.
Koven, Theodore J., Jersey City, N. J. Exhaust-valve for internal-combustion engines. No. 975,255; Nov. 8; Sp. p. 2664; Gaz. vol. 160; p. 430.
Koyl, Charles H., New York, N. Y. Apparatus for the continuous purification of water. No. 960,959; June 7; Sp. p. 1438; Gaz. vol. 155; p. 242.
Kozar, Ladislav O., assignor of one-third to J. Murgas, Wilkes-Barre, Pa. Carbon-feeding mechanism for arc-lamps. No. 945,960; Jan. 11; Sp. p. 2129; Gaz. vol. 150; p. 354.
Kozlowski, Sylvester, Detroit, Mich. Keeper-plate for door-locks. No. 964,789; July 19; Sp. p. 3928; Gaz. vol. 156; p. 653.
Kozminski, Samuel, assignor to Vesta-Apparate- & Metallwarenfabrik G. M. B. H., Charlottenburg, near Berlin, Germany. Drum gas-meter. No. 974,079; Oct. 25; Sp. p. 5578; Gaz. vol. 159; p. 967.
Kraber, Frank J., Langley, Wash. Game-board. No. 945,277; Jan. 4; Sp. p. 563; Gaz. vol. 150; p. 92.
Kraeger, Adam B., Maynard, Nebr. Mechanical movement. No. 968,482; Aug. 23; Sp. p. 5612; Gaz. vol. 157; p. 969.
Kraemer, Edward, Brooklyn, N. Y. Handle attachment for knit bags. No. 954,113; Apr. 5; Sp. p. 869; Gaz. vol. 153; p. 151.
Kraemer, Thomas. (See Sheble and Kraemer.)
Kraemer, Thomas, assignor to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Talking-machine. No. 960,560; June 7; Sp. p. 663; Gaz. vol. 155; p. 109.
Kraemer, Thomas, assignor to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Talking-machine. No. 968,483; Aug. 23; Sp. p. 5613; Gaz. vol. 157; p. 969.
Kraemer, William C., *et al.* (See Maxson, Charles B., assignor.)
Kraeski, Michael, Howard county, Md. Wagon. No. 967,937; Aug. 23; Sp. p. 4442; Gaz. vol. 157; p. 782.
Kraetsch, Carl H. (See Kraetsch, Paul J. and C. H.)
Kraetsch, Paul J. and C. H., Des Moines, Iowa. Smoke-consuming furnace. No. 968,570; Aug. 30; Sp. p. 5826; Gaz. vol. 157; p. 1026.
Kraeuter, Arthur A., South Orange, N. J. Pliers. No. 953,170; Mar. 29; Sp. p. 5577; Gaz. vol. 152; p. 1016.
Kraeuter, Arthur A., South Orange, N. J. Scraping-tool. No. 953,171; Mar. 29; Sp. p. 5578; Gaz. vol. 152; p. 1016.
Kraft, Henry P. (See Schweinert and Kraft.)
Kraft, Hermann, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Green vat dye and making same. No. 960,098; May 31; Sp. p. 7969; Gaz. vol. 154; p. 1336.
Kraft, Oscar A. (See Smith and Kraft.)
Krag, Ole H. J., Ullern, near Christiania, Norway. Automatic repeating firearm. No. 954,441; Apr. 12; Sp. p. 1568; Gaz. vol. 153; p. 288.
Krajeck, Anton, Two Rivers, Wis. Ice-field scraper. No. 945,787; Jan. 11; Sp. p. 1729; Gaz. vol. 150; p. 290.
Krajiček, Vincenc, Pardubitz, Austria-Hungary. T-square. No. 970,625; Sept. 20; Sp. p. 3195; Gaz. vol. 158; p. 549.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial draft-gear and vestibule. No. 946,875; Jan. 18; Sp. p. 4197; Gaz. vol. 150; p. 691.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Uncoupling device. No. 947,243; Jan. 25; Sp. p. 4932; Gaz. vol. 150; p. 840.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-gear. No. 947,244; Jan. 25; Sp. p. 4933; Gaz. vol. 150; p. 841.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Buffer for radial draft-gears. No. 947,245; Jan. 25; Sp. p. 4935; Gaz. vol. 150; p. 841.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft and buffing mechanism. No. 963,158; July 5; Sp. p. 333; Gaz. vol. 156; p. 47.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Train-pipe-supporting device. No. 964,436; July 12; Sp. p. 3024; Gaz. vol. 156; p. 499.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling. No. 964,790; July 19; Sp. p. 3929; Gaz. vol. 156; p. 653.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling. No. 964,791; July 19; Sp. p. 3929; Gaz. vol. 156; p. 653.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Bolster. No. 972,768; Oct. 11; Sp. p. 2726; Gaz. vol. 159; p. 464.
Kral, Frank, Vermillion, Kans. Grain elevator and dump. No. 961,970; June 21; Sp. p. 3605; Gaz. vol. 155; p. 634.
Kral, Károly, New York, N. Y. Extension-table. No. 957,611; May 10; Sp. p. 2352; Gaz. vol. 154; p. 409.
Kramer, Andrew A., Kansas City, Kans. Grain-door. No. 957,424; May 10; Sp. p. 2001; Gaz. vol. 154; p. 345.
Kramer, Andrew A., Kansas City, Kans. Tank-cover. No. 968,061; Aug. 23; Sp. p. 4723; Gaz. vol. 157; p. 824.
Kramer, Bertha F., Louisville, Ky. Receptacle-cover. No. 971,509; Sept. 27; Sp. p. 4971; Gaz. vol. 158; p. 871.
Kramer Company, E. M. (See Kramer, Emil M., assignor.)
Kramer, Emil M., Cissna Park, Ill., assignor, by mesne assignments, to E. M. Kramer Company. Harrow attachment for plows. No. 963,587; July 5; Sp. p. 1256; Gaz. vol. 156; p. 193.
Kramer, Emil M., Paxton, Ill., assignor to E. M. Kramer Company. Soil-engaging blade for harrows and the like. No. 963,716; July 5; Sp. p. 1513; Gaz. vol. 156; p. 235.
Kramer, Francis W. (See Boyd and Kramer.)
Kramer, George. (See Kramer, Rudolph and G.)
Kramer, Gustav, assignor to Aktieselskabet Sandvikens Blikvarefabrik, Sandviken, near Christiania, Norway. Protecting mechanism for pressing, punching, and cutting machines, &c. No. 969,961; Sept. 13; Sp. p. 1777; Gaz. vol. 158; p. 302.
Kramer, Henry H., assignor of one-half to S. E. Sparks, Terre Haute, Ind. Suspender attachment. No. 970,931; Sept. 20; Sp. p. 3827; Gaz. vol. 158; p. 653.
Kramer, Louis, and C. Brown, Evansville, Ind.; said Kramer assignor to N. Y. Dimension Supply Co., New York, N. Y. Shaper attachment. No. 948,784; Feb. 8; Sp. p. 2137; Gaz. vol. 151; p. 363.
Kramer, Philip R., Bay City, assignor to E. C. Ewen, Saginaw, Mich. Saw-bar for motor-driven sawing-machines. No. 951,282; Mar. 8; Sp. p. 1661; Gaz. vol. 152; p. 294.
Kramer, Rudolph and G., Earleigh Heights, Md. Attachment for sewing-machines. No. 953,095; Mar. 29; Sp. p. 5411; Gaz. vol. 152; p. 991.
Kramer, William C., Jr., Brenham, Tex. Wire-fastener. No. 970,722; Sept. 20; Sp. p. 3392; Gaz. vol. 158; p. 582.
Kramer, William R., Celina, Ohio. Washing-machine. No. 947,555; Jan. 25; Sp. p. 5698; Gaz. vol. 150; p. 946.
Kramp, Karl, Wusseken, near Borntuchen, Germany. Door and the like checking device. No. 969,882; Sept. 13; Sp. p. 1599; Gaz. vol. 158; p. 275.
Krampff, Edward J., *et al.* (See Hatton, Edgar, assignor.)
Krancher, Edward, New York, N. Y. Safety-gate. No. 957,065; May 3; Sp. p. 1219; Gaz. vol. 154; p. 193.
Kranich, Frederick, and L. P. Bach, New York, N. Y. Piano. No. 968,773; Aug. 30; Sp. p. 6283; Gaz. vol. 157; p. 1096.
Krantz, Hubert, assignor to H. Krantz Manufacturing Company, New York, N. Y. Meter-panel. No. 961,142; June 14; Sp. p. 1816; Gaz. vol. 155; p. 330.
Kranz, Frederick W., Minneapolis, Minn. Washing-machine. No. 952,818; Mar. 22; Sp. p. 4834; Gaz. vol. 152; p. 869.
Kranz, William G., Sharon, Pa., assignor to The National Malleable Castings Company, Cleveland, Ohio. Heat-treating steel castings. No. 951,768; Mar. 8; Sp. p. 2647; Gaz. vol. 152; p. 458.
Kränzlein, George. (See Schmidt and Kränzlein.)
Krapp, Albert, *et al.* (See Zinsmayer, Robert, assignor.)
Kratky, Franz, Vienna, Austria-Hungary. Incandescent gas-burner for inverted and upright incandescent lights. No. 959,760; May 31; Sp. p. 7197; Gaz. vol. 154; p. 1221.
Kratky, Gustav, Freudenthal, Austria-Hungary. Loom for manufacturing terry fabrics. No. 961,866; June 21; Sp. p. 3393; Gaz. vol. 155; p. 600.
Kratz, Ferdinand C., Olivet, S. D. Cream-testing device. No. 979,009; Dec. 20; Sp. p. 3436; Gaz. vol. 161; p. 603.
Kratzl, Alexander, New York, N. Y. Globe or shade holder. No. 965,638; July 26; Sp. p. 5722; Gaz. vol. 156; p. 973.
Kraus, Alexander. (See Folgeman and Kraus.)
Kraus, Charles A., Newton Highlands, Mass. Composition of vitreous matter. No. 974,801; Nov. 8; Sp. p. 1635; Gaz. vol. 160; p. 274.
Kraus, John, Erie, Pa. Core-box. No. 954,442; Apr. 12; Sp. p. 1571; Gaz. vol. 153; p. 289.
Krause, Albert F., assignor of one-half to C. C. Ladd, Buffalo, N. Y. Vacuum cleaning apparatus. No. 955,810; Apr. 19; Sp. p. 4562; Gaz. vol. 153; p. 788.
Krause, Albert F., assignor of one-half to C. C. Ladd, Buffalo, N. Y. Liquid-motor. No. 969,378; Sept. 6; Sp. p. 492; Gaz. vol. 158; p. 78.
Krause Carbureter Company, The. (See Krause, Richard E., assignor.)
Krause, Carl F. and R. C., Westfield, Wis. Marine bicycle. No. 956,533; May 3; Sp. p. 53; Gaz. vol. 154; p. 11.
Krause, Emil M., Granton, Wis. Cattle-stanchion. No. 955,811; Apr. 19; Sp. p. 4564; Gaz. vol. 153; p. 789.
Krause, Ernst, Steglitz, near Berlin, Germany. Singeing-comb. No. 961,620; June 14; Sp. p. 2855; Gaz. vol. 155; p. 493.
Krause, Ernst H. H., Hamburg, assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vormals Didier, Stettin, Germany. Apparatus for quenching incandescent materials. No. 976,580; Nov. 22; Sp. p. 5531; Gaz. vol. 160; p. 934.
Krause, Hermann, St. Louis, Mo., assignor to H. Scarborough, Sr., Chicago, Ill. Bottle-washer. No. 967,938; Aug. 23; Sp. p. 4445; Gaz. vol. 157; p. 782.

Alphabetical list of patentees—Continued.

Krause, Richard, Berlin, Germany, assignor, by mesne assignments, to A. L. A. Himmelwright and G. C. Henning, New York, N. Y. Apparatus for setting diamonds, &c., for industrial uses. No. 964,792; July 19; Sp. p. 3930; Gaz. vol. 156; p. 653.

Krause, Richard E., assignor to The Krause Carbureter Company, Cleveland, Ohio. Carbureter for combustion-engines. No. 948,612; Feb. 8; Sp. p. 1756; Gaz. vol. 151; p. 304.

Krause, Rudolf C. (See Krause, Carl F. and R. C.)

Krauss, James A. (See Reiff and Krauss.)

Krauth, Albert, Hamilton, Ohio. Autographic register. No. 947,920; Feb. 1; Sp. p. 293; Gaz. vol. 151; p. 49.

Krauth, Albert, Hamilton, Ohio. Adjustable stand for search-lamps. No. 955,971; Apr. 26; Sp. p. 4948; Gaz. vol. 153; p. 875.

Krawchenko, Samuel N., Wilmington, Del. Liquid-measure. No. 961,452; June 14; Sp. p. 2489; Gaz. vol. 155; p. 438.

Krawchenko, Samuel N., Wilmington, Del. Sawing-machine. No. 961,453; June 14; Sp. p. 2491; Gaz. vol. 155; p. 438.

Kray, John A., Lancaster, Pa. Portable wiring device. No. 979,514; Dec. 27; Sp. p. 4516; Gaz. vol. 161; p. 797.

Krcma, John F., Chicago, Ill. Vending-machine. No. 957,971; May 17; Sp. p. 3191; Gaz. vol. 154; p. 563.

Krebs, Arthur C., assignor to Societe Anonyme des Anciens Etablissements Panhard et Levassor, Paris, France. Device for coupling two transmission-shafts. No. 976,187; Nov. 22; Sp. p. 4631; Gaz. vol. 160; p. 797.

Krebs, Conrad. (See Krebs, Leonard and C.)

Krebs, John. (See Boyd, Andrew, assignor.)

Krebs, Leonard and C., Salem, Oreg. Disk plow. No. 959,356; May 24; Sp. p. 6349; Gaz. vol. 154; p. 1062.

Kreft, Herman A., Chicago, Ill. Machine for arranging rectangular articles in pairs. No. 966,566; Aug. 9; Sp. p. 1581; Gaz. vol. 157; p. 269.

Kreis, Oscar C., Jr., assignor to Burroughs Adding Machine Company, Detroit, Mich. Power-drive for adding-machines. No. 960,343; June 7; Sp. p. 212; Gaz. vol. 155; p. 37.

Kreis, Oscar C., Jr., assignor to Gray Motor Company, Detroit, Mich. Carbureter. No. 976,813; Nov. 22; Sp. p. 5993; Gaz. vol. 160; p. 1013.

Kreis, Robert W., Jennings, Mo. Double-acting self-feeding drill. No. 974,978; Nov. 8; Sp. p. 2060; Gaz. vol. 160; p. 336.

Kreitter, John W. (See Worthington, Raetz, and Kreitter.)

Krejci, Anton, Leavenworth, Kans. Shelf for bedsteads. No. 957,890; May 17; Sp. p. 2954; Gaz. vol. 154; p. 534.

Krell Auto-Grand Piano Co. of America. (See Welin, Peter, assignor.)

Krell, Laura A., *et al.* (See Welin, Peter, assignor.)

Kremer, Philip J., Somerton, Ohio. Folding frame for trucks. No. 974,678; Nov. 1; Sp. p. 1357; Gaz. vol. 160; p. 211.

Kremer, Philip J., Somerton, Ohio. Casket-truck. No. 974,679; Nov. 1; Sp. p. 1359; Gaz. vol. 160; p. 212.

Kremlacek, Anton J., Howells, Nebr. Truss-rod for buggy-tongue circles. No. 969,063; Aug. 30; Sp. p. 6859; Gaz. vol. 157; p. 1194.

Krentler-Arnold Hinge Last Company. (See Krentler, Edwin O., assignor.)

Krentler-Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)

Krentler-Arnold Hinge Last Company. (See Peckham, Albert E., assignor.)

Krentler, Edwin O., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. No. 947,972; Feb. 1; Sp. p. 405; Gaz. vol. 151; p. 65.

Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last-lock. No. 966,104; Aug. 2; Sp. p. 555; Gaz. vol. 157; p. 90.

Krenzler, Emil, Barmen, Germany. Single-thread lace-bobbin machine. No. 946,445; Jan. 11; Sp. p. 3241; Gaz. vol. 150; p. 521.

Krenzler, Gustav, Barmen, Germany. Lace-making machine. No. 979,770; Dec. 27; Sp. p. 5087; Gaz. vol. 161; p. 886.

Kress, Claude W., New York, N. Y. Display-counter. No. 953,911; Apr. 5; Sp. p. 450; Gaz. vol. 153; p. 82.

Kress, Edward J., assignor to W. M. Leatherman, Pittsburg, Pa. Lightning-rod. No. 974,396; Nov. 1; Sp. p. 711; Gaz. vol. 160; p. 108.

Kress, Frank E., St. Paul, Minn. Folding tooth-brush. No. 949,540; Feb. 15; Sp. p. 3695; Gaz. vol. 151; p. 642.

Kress, John, New Rochelle, N. Y. Guard-covering for the third rails of electric railways. No. 946,373; Jan. 11; Sp. p. 3092; Gaz. vol. 150; p. 496.

Kress, John, New Rochelle, N. Y. Machine for cutting meats and other articles. No. 952,819; Mar. 22; Sp. p. 4836; Gaz. vol. 152; p. 870.

Kress, Joseph, Bisbee, Ariz. Fly-escape for window-screens. No. 970,723; Sept. 20; Sp. p. 3393; Gaz. vol. 158; p. 582.

Kress, Willitts A., Hutchinson, Kans. Composition for treating sweat-bands of hats. No. 970,724; Sept. 20; Sp. p. 3394; Gaz. vol. 158; p. 583.

Kretschmer, Henry A., Princeton, Ill. Loose-leaf binder. No. 963,780; July 12; Sp. p. 1672; Gaz. vol. 156; p. 279.

Kretz, Harold C., Rochester, N. Y. Sign-letter. No. 979,969; Dec. 27; Sp. p. 5509; Gaz. vol. 161; p. 952.

Kretzinger, George W. (See Wilson, David H., assignor.)

Kretzmann, William, Harrison, N. J. Iron heater and cover. No. 951,568; Mar. 8; Sp. p. 2245; Gaz. vol. 152; p. 390.

Kretzschmar, Johannes, Torgau, assignor to Herkules Patentverwertungsgesellschaft mit beschränkter Haftung, Berlin, Germany. Kneading apparatus. No. 979,675; Dec. 27; Sp. p. 4874; Gaz. vol. 161; p. 854.

Kreul, Dwight G. (See Clark and Kreul.)

Kreuscher, Peter, Canova, S. D. Fly-guard. No. 957,425; May 10; Sp. p. 2003; Gaz. vol. 154; p. 346.

Kreusler, Hans, Wilmersdorf, assignor to Siemens & Halske A. G., Berlin, Germany. Making a plastic mass from compound of tungsten, &c. No. 956,979; May 3; Sp. p. 1052; Gaz. vol. 154; p. 165.

Kreutzberg, Ernst, St. Louis, Mo. Self-cleaning eaves-trough. No. 956,372; Apr. 26; Sp. p. 5829; Gaz. vol. 153; p. 1012.

Kreuzberger, Bartlet, Meriden, Conn. Shade-hanger and curtain-support. No. 969,962; Sept. 13; Sp. p. 1779; Gaz. vol. 158; p. 302.

Kreuzkamp, August J., assignor to The Englander Spring Bed Company, New York, N. Y. Side guard for spring-mattresses. No. 976,469; Nov. 22; Sp. p. 5281; Gaz. vol. 160; p. 896.

Kreuzkamp, William, and C. T. Bowman, Schenectady, N. Y., assignors to G. H. Davis, West Orange, N. J. Box or receptacle. No. 952,263; Mar. 15; Sp. p. 3628; Gaz. vol. 152; p. 652.

Kribs, Anthony, Brooklyn, N. Y. Machine for making castings. No. 959,557; May 31; Sp. p. 6788; Gaz. vol. 154; p. 1155.

Krichbaum, Guy V. (See Warring, James C., assignor.)

Krichbaum, Paul, San Francisco, Cal. Folding square. No. 968,958; Aug. 30; Sp. p. 6646; Gaz. vol. 157; p. 1157.

Krick, August J., and C. E. Thompson, Denver, Colo. Lubricator. No. 946,374; Jan. 11; Sp. p. 3093; Gaz. vol. 150; p. 496.

Krick, Kay C. (See Renick and Krick.)

Krickbaum, William M., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Tank-car. No. 963,025; June 28; Sp. p. 5830; Gaz. vol. 155; p. 1020.

Krider, Edward P., Los Angeles, Cal. Lawn-sprinkler. No. 945,961; Jan. 11; Sp. p. 2132; Gaz. vol. 150; p. 354.

Kriebel, Hosea K. and I. Z., Philadelphia, Pa. System of steam-heating. No. 968,668; Aug. 30; Sp. p. 6037; Gaz. vol. 157; p. 1060.

Kriebel, Irwin Z. (See Kriebel, Hosea K. and I. Z.)

Kriegbaum, John P. (See Chamness and Kriegbaum.)

Krieger, Adolph O., St. Louis, Mo. Bookkeeper's loose-sheet holder. No. 971,542; Oct. 4; Sp. p. 69; Gaz. vol. 159; p. 14.

Krieger, Joseph, Techny, Ill. Device for diminishing sliding friction. No. 945,128; Jan. 4; Sp. p. 244; Gaz. vol. 150; p. 42.

Krienitz, John, Alma, Kans. Zither. No. 963,588; July 5; Sp. p. 1262; Gaz. vol. 156; p. 193.

Krier, Joseph Z., Philo, Ohio. Window-sash fastener. No. 946,141; Jan. 11; Sp. p. 2480; Gaz. vol. 150; p. 414.

Kriesel, Gustave F., Minneapolis, Minn. Collar-burnishing machine. No. 952,674; Mar. 22; Sp. p. 4518; Gaz. vol. 152; p. 821.

Krippendorf, Charles H., *et al.* (See Wolentarsky, Charles, assignor.)

Krippendorf, Paul F. W. C., Lynn, Mass. Power-transmission belt. No. 949,124; Feb. 15; Sp. p. 2837; Gaz. vol. 151; p. 501.

Krippendorf, Paul F. W. C., Lynn, Mass. Lasting-buttoner. No. 967,939; Aug. 23; Sp. p. 4448; Gaz. vol. 157; p. 783.

Krips, William K., and G. W. Wright, Philadelphia, Pa. Aerial-cable support. No. 960,344; June 7; Sp. p. 214; Gaz. vol. 155; p. 37.

Krischer, Peter, Hagen, Germany. Hose-coupling. No. 951,283; Mar. 8; Sp. p. 1663; Gaz. vol. 152; p. 294.

Kristensen, Sigvald A. C. (See Nielsen and Kristensen.)

Kristofek, Frank J., assignor to The Meek Company, Coshocton, Ohio. Easel or the like. No. 962,903; June 28; Sp. p. 5602; Gaz. vol. 155; p. 980.

Krivachek, Frank J. and M. A., Fort Atkinson, Iowa. Check-rower for corn-planters. No. 974,080; Oct. 25; Sp. p. 5581; Gaz. vol. 159; p. 967.

Krivachek, Matthew A. (See Krivachek, Frank J. and M. A.)

Kriz, Josef, and F. Schorik, Chicago, Ill.; said Kriz assignor to said Schorik. Vending-machine. No. 969,883; Sept. 13; Sp. p. 1600; Gaz. vol. 158; p. 275.

Krnka, Karl, Hirtenberg, Austria-Hungary. Automatic firearm. No. 975,256; Nov. 8; Sp. p. 2665; Gaz. vol. 160; p. 431.

Kroder, John, New York, N. Y. Bracket. No. 961,502; June 14; Sp. p. 2606; Gaz. vol. 155; p. 455.

Kroder, John, New York, N. Y. Curtain-pole carrier. No. 975,257; Nov. 8; Sp. p. 2666; Gaz. vol. 160; p. 431.

Krogen, Carl, Souris, N. D. Hay-rack. No. 956,107; Apr. 26; Sp. p. 5238; Gaz. vol. 153; p. 921.

Krogh, Carl A. (See Krogh, Ferdinand W. and C. A.)

Alphabetical list of patentees—Continued.

Krogh, Ferdinand W., San Francisco, Cal. Centrifugal pump. No. 948,228; Feb. 1; Sp. p. 919; Gaz. vol. 151; p. 150.
Krogh, Ferdinand W., San Francisco, Cal. Deep-well pump. No. 949,681; Feb. 15; Sp. p. 3946; Gaz. vol. 151; p. 687.
Krogh, Ferdinand W., San Francisco, Cal. Centrifugal pump. No. 971,851; Oct. 4; Sp. p. 724; Gaz. vol. 159; p. 126.
Krogh, Ferdinand W., San Francisco, Cal. Centrifugal pump. No. 971,852; Oct. 4; Sp. p. 725; Gaz. vol. 159; p. 126.
Krogh, Ferdinand W., San Francisco, Cal. Centrifugal pump. No. 977,101; Nov. 29; Sp. p. 6685; Gaz. vol. 160; p. 1138.
Krogh, Ferdinand W. and C. A., San Francisco, Cal. Centrifugal pump. No. 971,849; Oct. 4; Sp. p. 714; Gaz. vol. 159; p. 125.
Krogh, Ferdinand W. and C. A., San Francisco, Cal. Centrifugal pump. No. 971,850; Oct. 4; Sp. p. 719; Gaz. vol. 159; p. 125.
Krohn, Christian, New York, N. Y. Propelling device. No. 965,912; Aug. 2; Sp. p. 137; Gaz. vol. 157; p. 23.
Krohn, Georg and G., Altona, Germany. Apparatus for grinding or polishing articles. No. 952,910; Mar. 22; Sp. p. 5009; Gaz. vol. 152; p. 900.
Krohn, Gustav. (See Krohn, Georg and G.)
Krohn, Julius, assignor of one-half to C. G. Tilleson, Menomonie, Wis. Grain-car door. No. 979,076; Dec. 20; Sp. p. 3572; Gaz. vol. 161; p. 625.
Krohn, Nels, Chicago, Ill., assignor to The Adams & Westlake Company. Lamp. No. 947,041; Jan. 18; Sp. p. 4530; Gaz. vol. 150; p. 747.
Krohnengold, Samuel, New York, and A. Raphael, Brooklyn, N. Y. Work-basket. No. 957,066; May 3; Sp. p. 1220; Gaz. vol. 154; p. 193.
Krokert, Felix, Halle-on-the-Saale, Germany. Printing process. No. 958,879; May 24; Sp. p. 5383; Gaz. vol. 154; p. 903.
Krom, Chester F., St. Petersburg, Fla. Display-cabinet. No. 960,561; June 7; Sp. p. 665; Gaz. vol. 155; p. 109.
Kromer, Christian, Philadelphia, Pa. Stretching and equalizing roll for looms. No. 951,402; Mar. 8; Sp. p. 1924; Gaz. vol. 152; p. 334.
Kronauer, Max, Paterson, N. J., assignor to The Progress Manufacturing Company. Combined cigarette-roller and tobacco-box. No. 978,170; Dec. 13; Sp. p. 1636; Gaz. vol. 161; p. 289.
Kronenberg, Rudolf, Ohligs, Germany. Autocar-wheel. No. 974,081; Oct. 25; Sp. p. 5584; Gaz. vol. 159; p. 968.
Kronenberg, Rudolf, Ohligs, Germany. Removable wheel-rim for pneumatic tires. No. 975,137; Nov. 8; Sp. p. 2402; Gaz. vol. 160; p. 390.
Kronheim, Jacob. (See Csiky, Kronheim, and Tamassy.)
Kronheimer, Louis M. (See Cohn and Kronheimer.)
Kronke, Richard P. (See Dreher and Kronke.)
Kropf, Frederick. (See Blum, Johnson, and Kropf.)
Krotz, Alvaro S., assignor to Precision Appliance Company, Chicago, Ill. Driving mechanism for lubricators. No. 969,290; Sept. 6; Sp. p. 294; Gaz. vol. 158; p. 48.
Krotz, Alvaro S., assignor of one-half to P. A. Staley, Springfield, Ohio. Apparatus for charging storage batteries. No. 969,542; Sept. 6; Sp. p. 841; Gaz. vol. 158; p. 132.
Krout, George W., *et al.* (See Hewitt and Thomas, assignors.)
Kroyer, John M., assignor to Samson Iron Works, Stockton, Cal. Gas-engine. No. 973,118; Oct. 18; Sp. p. 3533; Gaz. vol. 159; p. 611.
Kruckewitt, John, Pittsburg, Pa. Shoe. No. 968,571; Aug. 30; Sp. p. 5829; Gaz. vol. 157; p. 1027.
Krueger, Christian, San Francisco, Cal. Valise. No. 965,469; July 26; Sp. p. 5336; Gaz. vol. 156; p. 913.
Krueger, Frederick J., Detroit, Mich. Triplicate manifolding book or pad. No. 971,283; Sept. 27; Sp. p. 4556; Gaz. vol. 158; p. 797.
Krueger, Frederick W., Riesel, Tex. Rail-joint. No. 947,825; Feb. 1; Sp. p. 76; Gaz. vol. 151; p. 16.
Krueger, George A., and P. R. O'Connell, Danforth, Ill. Toy. No. 953,209; Mar. 29; Sp. p. 5658; Gaz. vol. 152; p. 1028.
Krueger, Helmuth A., assignor of one-half to G. H. Schelp, St. Louis, Mo. Power tire-bolt tightener and cutter. No. 947,578; Jan. 25; Sp. p. 5748; Gaz. vol. 150; p. 955.
Kruesi, August H., Schenectady, N. Y., assignor to General Electric Company. Turbine driving auxiliary apparatus. No. 945,962; Jan. 11; Sp. p. 2133; Gaz. vol. 150; p. 355.
Krug, Albert J., San Francisco, Cal. Game apparatus. No. 968,366; Aug. 23; Sp. p. 5387; Gaz. vol. 157; p. 929.
Krug, Dayton, assignor to The Gilliam Manufacturing Company, Canton, Ohio. Making harness saddles or pads. No. 952,449; Mar. 22; Sp. p. 4005; Gaz. vol. 152; p. 742.
Krug, Louis. (See Weis and Krug.)
Krug, Louis, assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Attachment-holder for sewing-machines. No. 960,345; June 17; Sp. p. 215; Gaz. vol. 155; p. 37.
Krug, Otto, Magdeburg, Germany. Lamp-holder. No. 971,131; Sept. 27; Sp. p. 4231; Gaz. vol. 158; p. 747.
Krug, Philip F., assignor to W. L. Abate, New York, N. Y. Chuck. No. 961,867; June 21; Sp. p. 3394; Gaz. vol. 155; p. 600.
Krug, Phillip, Russell, Kans. Plow. No. 976,188; Nov. 22; Sp. p. 4631; Gaz. vol. 160; p. 797.
Krug, Walter, Berlin, Germany. Stencil. No. 950,670; Mar. 1; Sp. p. 442; Gaz. vol. 152; p. 72.
Kruger, Albert M., Duluth, Minn. Derrick bull-wheel. No. 979,173; Dec. 20; Sp. p. 3828; Gaz. vol. 161; p. 662.
Krüger, Ernst A., Seehausen, Altmark, Germany, assignor, by mesne assignments, to Alfred Bloch, Paris, France. Regenerating carbon-filament electric incandescent lamps. No. 958,652; May 17; Sp. p. 4855; Gaz. vol. 154; p. 797.
Krüger, Friedrich C., Hanover, Germany. Wedge-expanding device. No. 956,712; May 3; Sp. p. 461; Gaz. vol. 154; p. 74.
Krüger, Friedrich C., Hanover, Germany. Engine having rotary piston. No. 968,859; Aug. 30; Sp. p. 6449; Gaz. vol. 157; p. 1123.
Krüger, Friedrich C., Hanover, Germany, Stuffing-box. No. 978,310; Dec. 13; Sp. p. 1937; Gaz. vol. 161; p. 338.
Krüger, Heinrich, Berlin, Germany. Pressure-regulator. No. 953,040; Mar. 29; Sp. p. 5279; Gaz. vol. 152; p. 972.
Krüger, Otto, Leipzig, Germany. Stamping and printing paper webs. No. 970,932; Sept. 20; Sp. p. 3828; Gaz. vol. 158; p. 653.
Kruh, Osias O., Schenectady, N. Y., assignor to General Electric Company. Telephotography. No. 968,484; Aug. 23; Sp. p. 5615; Gaz. vol. 157; p. 969.
Krum, Louis B., Chicago, Ill. Pneumatic tire. No. 952,675; Mar. 22; Sp. p. 4520; Gaz. vol. 152; p. 821.
Krum, Robert, and H. Weingartner, Lawrence, Kans. Adjustable telephone-support. No. 951,319; Mar. 8; Sp. p. 1749; Gaz. vol. 152; p. 307.
Krumm, Louis R. (See Waldron and Krumm.)
Krummel, Louis C., Clinton, Conn., and J. C. Taliaferro, Baltimore, Md. Bottle-capping head. No. 960,960; June 7; Sp. p. 1440; Gaz. vol. 155; p. 242.
Krummel, Louis C., Clinton, Conn., and J. C. Taliaferro, Baltimore, Md., assignors to Continental Machine Company, Syracuse, N. Y. Can centering and truing device. No. 954,976; Apr. 12; Sp. p. 2802; Gaz. vol. 153; p. 475.
Krummert, Alexander P., Columbus, Ohio. Sanitary bucket. No. 952,676; Mar. 22; Sp. p. 4522; Gaz. vol. 152; p. 822.
Krumming, Reinhold, Milwaukee, Wis. Attachment means for binder-posts. No. 970,510; Sept. 20; Sp. p. 2914; Gaz. vol. 158; p. 508.
Krump, Nicholas, assignor to Illinois Heater and Manufacturing Company, Chicago, Ill. Automatically-locking receptacle. No. 950,139; Feb. 22; Sp. p. 5010; Gaz. vol. 151; p. 881.
Krupovess, Michael, St. Petersburg, Russia. Heat-exchanging device. No. 972,626; Oct. 11; Sp. p. 2442; Gaz. vol. 159; p. 416.
Kruse, Alfred J. (See Deutschman and Kruse.)
Kruse, Alfred T., deceased; A. M. Kruse and C. M. Willock, executors, assignors to The American Steel Package Co., Defiance, Ohio. Packing-case. No. 975,962; Nov. 15; Sp. p. 4129; Gaz. vol. 160; p. 698.
Kruse, August M., *et al.*, executors. (See Kruse, Alfred T.)
Kruse, Emil, Tokio, assignor of one-half to E. Bodal, Fort Totten, N. D. Smoke-retarding device. No. 973,944; Oct. 25; Sp. p. 5302; Gaz. vol. 159; p. 921.
Kruse, George, George, Iowa. Loading-machine. No. 946,514; Jan. 11; Sp. p. 3402; Gaz. vol. 150; p. 544.
Kruse, John, St. Louis, Mo. Alarm-clock. No. 952,677; Mar. 22; Sp. p. 4523; Gaz. vol. 152; p. 822.
Kruse, Theodore H., assignor of one-half to W. E. Luptan, Arvada, Colo. Cement-block mold. No. 964,112; July 12; Sp. p. 2396; Gaz. vol. 156; p. 393.
Krystowiak, Michael, Chicago, Ill. Cloth-rack for stoves. No. 951,645; Mar. 8; Sp. p. 2398; Gaz. vol. 152; p. 415.
Krzywiec, Alexander, Warsaw, Russia. Incandescent lamp. No. 957,612; May 10; Sp. p. 2354; Gaz. vol. 154; p. 410.
Ksiażek, Ignacy, assignor of one-half to F. W. Koraleski, Chicago, Ill. Automatic safety car-fender. No. 965,199; July 26; Sp. p. 4745; Gaz. vol. 156; p. 821.
Kuba, Frank, Brooklyn, N. Y. Lock. No. 977,102; Nov. 29; Sp. p. 6687; Gaz. vol. 160; p. 1138.
Kubach, Charles, Abilene, Kans. Fence-machine. No. 947,470; Jan. 25; Sp. p. 5488; Gaz. vol. 150; p. 917.
Kubert, Andrew. (See Lux, William N., assignor.)
Kubes, John, Broadview, Mont. Trap. No. 975,537; Nov. 15; Sp. p. 3266; Gaz. vol. 160; p. 554.
Kubessa, Richard, Kalk, near Cologne, Germany. Brewing process. No. 949,581; Feb. 15; Sp. p. 3773; Gaz. vol. 151; p. 656.
Kucera, Frank O., Tobias, Nebr. Check or draft protector. No. 970,341; Sept. 13; Sp. p. 2552; Gaz. vol. 158; p. 430.
Kuchenbecker, Lewis, Waltham, Minn. Carriage-iron. No. 951,008; Mar. 1; Sp. p. 1122; Gaz. vol. 152; p. 182.
Kuczyński, Jochan, assignor of one-half to M. J. Pociosk, Chicago, Ill. Padlock. No. 962,087; June 21; Sp. p. 3858; Gaz. vol. 155; p. 675.

Alphabetical list of patentees—Continued.

Kudlich, Alfred H., Lynn, Mass., assignor to General Electric Company. Turbine-bucket. No. 974,160; Nov. 1; Sp. p. 105; Gaz. vol. 160; p. 21.

Kuebodeaux, John, assignor of one-half to D. P. Haven, Crowley, La. Wheeled vehicle. No. 953,697; Apr. 5; Sp. p. 36; Gaz. vol. 153; p. 9.

Kueffner, Herbert W., Burlington, N. C. Pen. No. 954,306; Apr. 5; Sp. p. 1302; Gaz. vol. 153; p. 215.

Kuehl, George C. J. (See Kuehl, Ludwig T., assignor.)

Kuehl, Ludwig T., assignor to G. C. J. Kuehl, Chicago, Ill. Kerosene-burner for melting-furnaces and similar uses. No. 950,231; Feb. 22; Sp. p. 5215; Gaz. vol. 151; p. 914.

Kuehl, Ludwig T., assignor to G. C. J. Kuehl, Chicago, Ill. Steam-generator. No. 950,293; Feb. 22; Sp. p. 5331; Gaz. vol. 151; p. 935.

Kuehn, Frank C. W., Huron, S. D. Sash-cord guide. No. 958,653; May 17; Sp. p. 4856; Gaz. vol. 154; p. 797.

Kuehn, Frank C. W., Huron, S. D. Sash-cord fastener. No. 968,572; Aug. 30; Sp. p. 5830; Gaz. vol. 157; p. 1027.

Kuehn, Lucas M., Wabasha, Minn. Cheese-cutter. No. 965,114; July 19; Sp. p. 4570; Gaz. vol. 156; p. 762.

Kuehner, Charles, Cranston, assignor to O. Kuehner, Providence, R. I. Pin. No. 962,360; June 21; Sp. p. 4448; Gaz. vol. 155; p. 767.

Kuehner, Ottilie. (See Kuehner, Charles, assignor.)

Kuenneth, George W., Paterson, N. J. Let-off mechanism for narrow-ware looms. No. 968,367; Aug. 23; Sp. p. 5389; Gaz. vol. 157; p. 930.

Kueny, Albert, *et al.* (See Gullickson, Charles M., assignor.)

Kuersten, Hugo R., Chicago, Ill. Garment-rack. No. 962,227; June 21; Sp. p. 4163; Gaz. vol. 155; p. 723.

Kuersten, Hugo R., Chicago, Ill. Cabinet-door. No. 962,228; June 21; Sp. p. 4165; Gaz. vol. 155; p. 723.

Kuert, Ira J. (See Massman, Peter, assignor.)

Kuester, Albert C., Philadelphia, Pa., assignor to The Scofield Company, New York, N. Y. Reinforcing-bar for concrete structures. No. 947,199; Jan. 18; Sp. p. 4828; Gaz. vol. 150; p. 796.

Kueter, William G., Plymouth, Wis. Window-pane fastener. No. 948,957; Feb. 8; Sp. p. 2471; Gaz. vol. 151; p. 420.

Kuffel, Joseph J., Manitowoc, Wis. Filing-cabinet. No. 979,010; Dec. 20; Sp. p. 3438; Gaz. vol. 161; p. 604.

Kugel, Lillian M., New York, N. Y. Combination-undergarment. No. 946,142; Jan. 11; Sp. p. 2481; Gaz. vol. 150; p. 414.

Kügelgen, Franz von, Holcombs Rock, Va., and G. O. Seward, East Orange, N. J., assignors, by mesne assignments, to Tin Products Company, New York, N. Y. Detinning. No. 972,135; Oct. 4; Sp. p. 1340; Gaz. vol. 159; p. 226.

Kügelgen, Franz von, Holcombs Rock, Va., and G. O. Seward, East Orange, N. J., assignors to Virginia Laboratory Company, New York, N. Y. Electric furnace. No. 978,171; Dec. 13; Sp. p. 1638; Gaz. vol. 161; p. 289.

Kugelmann, Bernhard, Bad Kissengen, Germany. Self-acting telephonic line-connecting system. No. 972,874; Oct. 18; Sp. p. 2972; Gaz. vol. 159; p. 527.

Kugler, Frank G., Newark, N. J. Apparatus for handling photographic films. No. 971,543; Oct. 4; Sp. p. 73; Gaz. vol. 159; p. 14.

Kugler, Henry M., and W. T. Clark, Buffalo, N. Y. Automobile clutch and brake controlling mechanism. No. 974,281; Nov. 1; Sp. p. 454; Gaz. vol. 160; p. 67.

Kuhl, Burchard, Orlando, Fla., assignor of one-half to Smith & Hemenway Company, New York, N. Y. Ice-cream freezer. No. 960,346; June 7; Sp. p. 220; Gaz. vol. 155; p. 38.

Kuhl, Carl L., Wilmington, N. C. Curtain-pole. No. 962,361; June 21; Sp. p. 4450; Gaz. vol. 155; p. 767.

Kuhle, Richard, Berlin, Germany. Comb-shears. No. 976,581; Nov. 22; Sp. p. 5532; Gaz. vol. 160; p. 934.

Kuhlman, John F., Hammond, Ind. Sewer-cleaning apparatus. No. 955,812; Apr. 19; Sp. p. 4565; Gaz. vol. 153; p. 789.

Kuhlmann, Frederick J. P., assignor of one-half to C. E. Grosjean, San Francisco, Cal. Carton folding and gluing machine. No. 956,108; Apr. 26; Sp. p. 5239; Gaz. vol. 153; p. 921.

Kuhn, Charles M., *et al.* (See Kuhn, Frank P., assignor.)

Kuhn Checking System Co. (See Loebl, Hugo, assignor.)

Kuhn, Edmond. (See Korn and Kuhn.)

Kuhn, Emil, Zurich, Switzerland. Electromagnetic sparking plug. No. 971,544; Oct. 4; Sp. p. 76; Gaz. vol. 159; p. 15.

Kuhn, Frank, assignor to American Electrical Heater Company, Detroit, Mich. Utensil-support. No. 964,655; July 19; Sp. p. 3542; Gaz. vol. 156; p. 606.

Kuhn, Frank, assignor to American Electrical Heater Company, Detroit, Mich. Electrical heater. No. 979,515; Dec. 27; Sp. p. 4517; Gaz. vol. 161; p. 798.

Kuhn, Frank P., assignor of one-third to C. M. Kuhn and one-third to J. E. Herman, Kearney, Nebr. Tool-holder. No. 966,755; Aug. 9; Sp. p. 2012; Gaz. vol. 157; p. 334.

Kuhn, Harry A., Pittsburg, Pa. Mining coal. No. 970,725; Sept. 20; Sp. p. 3395; Gaz. vol. 158; p. 583.

Kuhn, Harry S., assignor to Emmert Manufacturing Company, Waynesboro, Pa. Vise. No. 965,470; July 26; Sp. p. 5337; Gaz. vol. 156; p. 913.

Kuhn, Herbert R. (See Reynolds, Frank C., assignor.)

Kuhn, Joseph, Pittsburg, Pa. Match-box. No. 953,471; Mar. 29; Sp. p. 6225; Gaz. vol. 152; p. 1116.

Kuhn, Joseph, Pittsburg, Pa. Attachment for telephones. No. 957,067; May 3; Sp. p. 1221; Gaz. vol. 154; p. 193.

Kuhn, Rudolph C., Minneapolis, Minn. Writing-tablet. No. 958,507; May 17; Sp. p. 4574; Gaz. vol. 154; p. 751.

Kuhnert, Walter A., San Francisco, Cal. Support for ironing-boards and similar devices. No. 976,662; Nov. 22; Sp. p. 5691; Gaz. vol. 160; p. 962.

Kuhns, John P., assignor to National Tag Company, Dayton, Ohio. Pin-ticket machine. No. 953,472; Mar. 29; Sp. p. 6227; Gaz. vol. 152; p. 1117.

Kukkuck, Frederick, St. Louis, Mo. Composition-leather machine. No. 957,219; May 10; Sp. p. 1554; Gaz. vol. 154; p. 275.

Kukuruda, Charles, Flint, Mich. Lunch-box. No. 952,911; Mar. 22; Sp. p. 5011; Gaz. vol. 152; p. 901.

Kukuruda, John, Saginaw, Mich. Pick. No. 964,976; July 19; Sp. p. 4296; Gaz. vol. 156; p. 717.

Kullander, Frank O., Kensington, Minn. Rotatable gate or door. No. 952,912; Mar. 22; Sp. p. 5012; Gaz. vol. 152; p. 901.

Kullander, Frank O., Kensington, Minn. Match box and holder. No. 956,809; May 3; Sp. p. 671; Gaz. vol. 154; p. 106.

Kullander, Frank O., Kensington, Minn. Harvester butting attachment. No. 961,868; June 21; Sp. p. 3396; Gaz. vol. 155; p. 600.

Kullander, Frans E., Minneapolis, Minn. Nest for hens. No. 953,172; Mar. 29; Sp. p. 5579; Gaz. vol. 152; p. 1016.

Kulp, Joseph, Jersey City, N. J., assignor of one-half to A. Hand, Scranton, Pa. Safety device for elevators. No. 973,518; Oct. 25; Sp. p. 4417; Gaz. vol. 159; p. 772.

Kummer, Frederick B., Sheboygan, Wis. Flying-machine. No. 968,860; Aug. 30; Sp. p. 6451; Gaz. vol. 157; p. 1124.

Kummero, Albert O., Toledo, Ohio. Metal wheel. No. 971,620; Oct. 4; Sp. p. 241; Gaz. vol. 159; p. 43.

Kumming, Emil A., assignor to U. S. Mail Chute Equipment Company, St. Louis, Mo. Mail-chute. No. 966,452; Aug. 9; Sp. p. 1280; Gaz. vol. 157; p. 230.

Kunath, Edward F., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 952,203; Mar. 15; Sp. p. 3505; Gaz. vol. 152; p. 631.

Kunda, Louis, South Oshkosh, Wis. Rolling-mill. No. 977,637; Dec. 6; Sp. p. 495; Gaz. vol. 161; p. 75.

Kundtz, Theodor. (See Arter, John G., assignor.)

Kundtz, Theodor. (See Cogger, William B., assignor.)

Kundtz, Theodor, Lakewood, Ohio. Combined school desk and seat. No. 957,426; May 10; Sp. p. 2004; Gaz. vol. 154; p. 346.

Kundtz, Theodor, Lakewood, and J. Rehor, Cleveland, Ohio; said Rehor assignor to said Kundtz. Sewing-machine cabinet. No. 946,876; Jan. 18; Sp. p. 4199; Gaz. vol. 150; p. 692.

Kundtz, Theodor, Lakewood, and A. Schuster, Cleveland, Ohio; said Schuster assignor to said Kundtz. Sewing-machine table. No. 975,050; Nov. 8; Sp. p. 2208; Gaz. vol. 160; p. 360.

Kunheim and Co. (See Huber, Adolf, assignor.)

Kunkel, A., *et al.* (See Leavell, Thomas G., assignor.)

Kunkel, Albert R., Palestine, Tex. Apparatus for burning crude oil. No. 976,268; Nov. 22; Sp. p. 4848; Gaz. vol. 160; p. 827.

Kunkel, Anton, assignor to Adolph Saurer Maschinenfabrik, Arbon, Switzerland. Ball-bearing lock. No. 977,655; Dec. 6; Sp. p. 534; Gaz. vol. 161; p. 81.

Kunkel, Fred R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilating-fan. No. 969,707; Sept. 6; Sp. p. 1165; Gaz. vol. 158; p. 189.

Kunkel, Fred R., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Vibratory massage apparatus. No. 975,436; Nov. 15; Sp. p. 3036; Gaz. vol. 160; p. 518.

Kunkel, Fred R., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Vibratory massage apparatus. No. 975,437; Nov. 15; Sp. p. 3037; Gaz. vol. 160; p. 519.

Kunkel, George W., assignor of one-half to J. A. Milligan, King City, Mo. Ore-separator. No. 949,709; Feb. 15; Sp. p. 4006; Gaz. vol. 151; p. 697.

Kuntzsch, Charles A., assignor of one-third to D. J. Kuntzsch and one-third to W. J. Kuntzsch, Syracuse, N. Y. Lock-nut. No. 973,673; Oct. 25; Sp. p. 4756; Gaz. vol. 159; p. 826.

Kuntzsch, Daniel J., *et al.* (See Kuntzsch, Charles A., assignor.)

Kuntzsch, William J., *et al.* (See Kuntzsch, Charles A., assignor.)

Kunz, Charles A. (See Kunz, George and C. A.)

Kunz, Fredrick C. (See Kunz, John and F. C.)

Kunz, George and C. A., Dubuque, Iowa. Brake. No. 976,083; Nov. 15; Sp. p. 4351; Gaz. vol. 160; p. 739.

Alphabetical list of patentees—Continued.

Kunz, John and F. C., Middletown, Ohio. Egg-turning tray for incubators. No. 977,638; Dec. 6; Sp. p. 496; Gaz. vol. 161; p. 75.
Kunze, Emil W. (See Zesse, Alexander E., assignor.)
Kunzelmann, Carl, Sr., Säckingen, Germany. Multiple-jet-pipe mouthpiece. No. 979,771; Dec. 27; Sp. p. 5088; Gaz. vol. 161; p. 886.
Kunzmann, Jacob, and Z. Zimmerman, Highland, Cal. Gravitating hinge. No. 950,537; Mar. 1; Sp. p. 160; Gaz. vol. 152; p. 27.
Kunzmann, Rudolf, and E. Stierle, assignors to The Firm of A. Daub, Pforzheim, Germany. Soldering chain-links. No. 970,726; Sept. 20; Sp. p. 3398; Gaz. vol. 158; p. 583.
Kupfer, Theodore, Madison, Wis. Foot-brace for animals. No. 950,232; Feb. 22; Sp. p. 5218; Gaz. vol. 151; p. 915.
Küppers, Charles, Aix-la-Chapelle, Germany. Flow-indicator. No. 979,516; Dec. 27; Sp. p. 5419; Gaz. vol. 161; p. 798.
Kurman, William A., Indianapolis, Ind. Wall-forming device. No. 954,636; Apr. 12; Sp. p. 2017; Gaz. vol. 153; p. 355.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 948,058; Feb. 1; Sp. p. 587; Gaz. vol. 151; p. 94.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 954,637; Apr. 12; Sp. p. 2019; Gaz. vol. 153; p. 356.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 966,219; Aug. 2; Sp. p. 810; Gaz. vol. 157; p. 128.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 973,519; Oct. 25; Sp. p. 4421; Gaz. vol. 159; p. 773.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 977,019; Nov. 29; Sp. p. 6510; Gaz. vol. 160; p. 1110.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 978,902; Dec. 20; Sp. p. 3178; Gaz. vol. 161; p. 564.
Kurrus, Henri J., assignor of one-half to D. O'Sullivan, New York, N. Y. Hand-pump. No. 950,549; Mar. 1; Sp. p. 184; Gaz. vol. 152; p. 31.
Kursneedt Manufacturing Company, The. (See Groebli, Joseph A., assignor.)
Kurt, Alfred, Pioche, Nev. Collapsible camping-stove. No. 970,342; Sept. 13; Sp. p. 2553; Gaz. vol. 158; p. 431.
Kurtenacker, Hermann, Berlin, Germany. Furnace. No. 964,656; July 19; Sp. p. 3543; Gaz. vol. 156; p. 606.
Kurtz, Jacob, Darragh, and T. Hochriter, Greensburg, Pa. Coal-mining machine. No. 957,510; May 10; Sp. p. 2166; Gaz. vol. 154; p. 374.
Kurtz, John F., Connellsville, Pa. Trousers-supporting device. No. 949,827; Feb. 22; Sp. p. 4286; Gaz. vol. 151; p. 772.
Kurtz, William E., Oakland, Cal. Pneumatic-cushion furniture. No. 975,258; Nov. 8; Sp. p. 2668; Gaz. vol. 160; p. 431.
Kurz, Alwin. (See Wachsmundt, Kurz, and Jacobi.)
Kurz, August W., Cleveland, Ohio. Vault-head. No. 967,940; Aug. 23; Sp. p. 4450; Gaz. vol. 157; p. 783.
Kurz, Charles F., Cleveland, Ohio. Portable prescription-case. No. 959,230; May 24; Sp. p. 6101; Gaz. vol. 154; p. 1020.
Kurz, Leonhard, Fuerth, Germany. Apparatus for manufacturing leaf metal and the like. No. 946,676; Jan. 18; Sp. p. 3720; Gaz. vol. 150; p. 622.
Kurze, Wilhelm, Wilhelmshütte, Neustadt-on-the-Rübenberge, Germany. Manufacture of hollow castings. No. 972,875: Oct. 18; Sp. p. 2977; Gaz. vol. 159; p. 527.
Kus, Thomas G., Milwaukee, Wis. Faucet. No. 954,744; Apr. 12; Sp. p. 2277; Gaz. vol. 153; p. 394.
Kuschenitz, Felix. (See Harváth, Richard von, assignor.)
Kusebauch, Anton. (See Foell, Kusebauch, and Neckerman.)
Kusebauch, Anton, Pittsburg, Pa., assignor, by mesne assignments, to Nernst Lamp Company. Cooling-vane for second-class glower-lamps. No. 977,198; Nov. 29; Sp. p. 6908; Gaz. vol. 160; p. 1173.
Kusel, Harry J., Chicago, Ill., assignor, by mesne assignments, to Century Telephone Construction Company, Buffalo, N. Y. Spring-jack structure. No. 962,847; June 28; Sp. p. 5495; Gaz. vol. 155; p. 961.
Kuss, Rudolf R., De Lamar, Idaho. Taper-boring machine. No. 962,848; June 28; Sp. p. 5497; Gaz. vol. 155; p. 961.
Kussart, Jacob, assignor to The Duplex Rubber Company, Greeley, Colo. Syringe. No. 972,201; Oct. 11; Sp. p. 1504; Gaz. vol. 159; p. 267.
Kusterer, Carl C., assignor to I. H. and M. S. Keeler, Grand Rapids, Mich. Fastener for securing doors. No. 960,961; June 7; Sp. p. 1443; Gaz. vol. 155; p. 242.
Kutsch, Louis W., Chicago, Ill. Electric plug and socket. No. 975,875; Nov. 15; Sp. p. 3958; Gaz. vol. 160; p. 667.
Kuttruff, Karl, and J. Frefel, Basel, Switzerland. Dobby for looms. No. 949,238; Feb. 15; Sp. p. 3052; Gaz. vol. 151; p. 540.
Kužel, Hans, Baden, near Vienna, Austria-Hungary, assignor to General Electric Company. Metallic-filament electric glow-lamp. No. 960,962; June 7; Sp. p. 1444; Gaz. vol. 155; p. 243.
Kuzel, Hans, Baden, near Vienna, Austria-Hungary, assignor to General Electric Company. Manufacturing articles with the use of colloids. No. 969,064; Aug. 30; Sp. p. 6860; Gaz. vol. 157; p. 1194.
Kuzel, Hans, Baden, near Vienna, Austria-Hungary, assignor to General Electric Company. Solder for incandescent-lamp filaments. No. 969,109; Aug. 30; Sp. p. 6954; Gaz. vol. 157; p. 1210.
Kuznor, Peter, New Castle, assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Dipping device for coating-rolls. No. 949,281; Feb. 15; Sp. p. 3141; Gaz. vol. 151; p. 554.
Kvam, Sigvart, Minneapolis, Minn. Rope-buckle. No. 947,388; Jan. 25; Sp. p. 5302; Gaz. vol. 150; p. 891.
Kwasnieski, Thomas M., Stamford, Conn. Lock. No. 972,543; Oct. 11; Sp. p. 2239; Gaz. vol. 159; p. 387.
Kwis, Arthur F., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Belt-tightener. No. 960,347; June 7; Sp. p. 221; Gaz. vol. 155; p. 38.
Kyle, Howard B., York, Pa. Mail-bag catching and delivering apparatus. No. 969,065; Aug. 30; Sp. p. 6861; Gaz. vol. 157; p. 1194.
Kyle, James G., Riverside, Cal. Pruning-shears. No. 960,963; June 7; Sp. p. 1445; Gaz. vol. 155; p. 243.
Kyle, Samuel F., *et al.* (See Hatton, Edgar, assignor.)
Kyle, Samuel H., Clinton, assignor of one-half to R. A. Oxley, Gilman, Ill. Nut-lock. No. 947,616; Jan. 25; Sp. p. 5831; Gaz. vol. 150; p. 968.
Kyle, Thomas D., Chicago, and E. H. Waugh, Evanston, Ill.; said Waugh assignor to said Kyle. Machine for washing and draining soiled bottles. No. 957,220; May 10; Sp. p. 1557; Gaz. vol. 154; p. 276.
Kyler, William, Houston, Tex. Clamping device for shutters. No. 975,538; Nov. 15; Sp. p. 3268; Gaz. vol. 160; p. 555.
Kynoch Limited. (See Jones, Edward, assignor.)
Kyte, Walter H., Dorranceton, Pa. Block-plane. No. 951,135; Mar. 8; Sp. p. 1365; Gaz. vol. 152; p. 248.
L. Wolff Manufacturing Company. (See Lindsay, William, assignor.)
L. A. Becker Company. (See Becker, Louis A., assignor.)
L-B. Manufacturing Co., The. (See Brott, Howard G., assignor.)
L. C. Smith and Bros. Typewriter Company. (See Gabrielson, Carl, assignor.)
L. C. Smith & Bros. Typewriter Company. (See Gabrielson and Stanley, assignors.)
L. E. Waterman Company. (See Ferris, William I., assignor.)
L. H. Miller Acetylene Gas Machine Company. (See Miller, Louis H., assignor.)
L. H. Nielson Co. (See Nielsen and Barnard, assignors.)
L. M. Ericsson Telephone Manufacturing Company. (See Larsson, Alfred, assignor.)
L. S. Starrett Company. (See Starrett, Laroy S., assignor.)
L. & S. Syndicate, The. (See Lockwood, Alfred A., assignor.)
L'Enfant, Charles, New York, N. Y. Cigar-case. No. 976,190; Nov. 22; Sp. p. 4637; Gaz. vol. 160; p. 798.
L'Enfant, Charles, New York, N. Y. Cigar-case. No. 979,176; Dec. 20; Sp. p. 3834; Gaz. vol. 161; p. 663.
L'Orange, Prosper, Mannheim, Germany. Operating explosive-engines. No. 959,951; May 31; Sp. p. 7640; Gaz. vol. 154; p. 1288.
La Batt, Homer C., assignor to W. J. Herrick, Chicago, Ill. Controller for paper-handling machines. No. 962,440; June 28; Sp. p. 4642; Gaz. vol. 155; p. 820.
La Batt, Homer C., assignor to W. J. Herrick, Chicago, Ill. Sheet-feeding machine. No. 968,062; Aug. 23; Sp. p. 4724; Gaz. vol. 157; p. 824.
La Batt, Homer C., assignor to W. J. Herrick, Chicago, Ill. Controller for paper-handling machines. No. 968,063; Aug. 23; Sp. p. 4733; Gaz. vol. 157; p. 824.
La Bauve, Duclise J., Iowa, La. Levee-builder. No. 946,375; Jan. 11; Sp. p. 3094; Gaz. vol. 150; p. 497.
La Bauve, Odelon J., Edna, Tex. Coop or crate. No. 957,068; May 3; Sp. p. 1223; Gaz. vol. 154; p. 194.
La Bauve, Odelon J., Edna, Tex. Coop or crate. No. 957,069; May 3; Sp. p. 1225; Gaz. vol. 154; p. 194.
La Bombard, Mary, Bristol, Vt. Quilting-frame. No. 945,100; Jan. 4; Sp. p. 195; Gaz. vol. 150; p. 33.
La Brum, Theodore, San Diego, Cal. Wave-motor. No. 974,282; Nov. 1; Sp. p. 461; Gaz. vol. 160; p. 67.
La Budde, Adolph C., Ashland, Wis. Keg-rinser. No. 954,397; Apr. 5; Sp. p. 1481; Gaz. vol. 153; p. 246.
La Chance, August, Ste. Genevieve, Mo. Carrot tobacco-mold. No. 976,886; Nov. 29; Sp. p. 6180; Gaz. vol. 160; p. 1064.
La Chapelle, Euclid I., Beverly, Mass. Pulling-over machine. No. 950,179; Feb. 22; Sp. p. 5094; Gaz. vol. 151; p. 895.
La Chapelle, Francis, San Francisco, Cal. Replaceable tooth. No. 959,358; May 24; Sp. p. 6353; Gaz. vol. 154; p. 1062.

La Chapelle, Fred, Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Sewing-machine. No. 957,972; May 17; Sp. p. 3196; Gaz. vol. 154; p. 563.
La Cour, Jens L. (See Arnold and La Cour.)
La Crosse Plow Company. (See Stitchman, Frederick G., assignor.)
La Dow, Olin, Arcola, Ill. Invalid's bed-rest. No. 969,351; Sept. 6; Sp. p. 423; Gaz. vol. 158; p. 68.
La Driere, Joseph L., Albuquerque, N. Mex. External guard for pneumatic tires. No. 956,110; Apr. 26; Sp. p. 5244; Gaz. vol. 153; p. 922.
La Driere, Joseph L., Albuquerque, N. Mex. External armor for pneumatic tires. No. 958,748; May 24; Sp. p. 5062; Gaz. vol. 154; p. 855.
La Driere, Joseph L., Aubuquerque, N. Mex. Tire-protector. No. 964,977; July 19; Sp. p. 4297; Gaz. vol. 156; p. 717.
La Fleur, William J., Northampton, Mass. Ladder-round support. No. 954,813; Apr. 12; Sp. p. 2443; Gaz. vol. 153; p. 417.
La May, Arthur C. (See Hunt and La May.)
La Montague, T. Ephrem. (See Jaccard, Ami, assignor.)
La Motte, John, *et al.* (See Richey, Albert C., assignor.)
La Mountain, George C., Des Moines, Iowa. Shoe-polishing machine. No. 947,415; Jan. 25; Sp. p. 5370; Gaz. vol. 150; p. 900.
La Palme, John, Central Falls, R. I. Loom-shuttle. No. 975,051; Nov. 8; Sp. p. 2216; Gaz. vol. 160; p. 360.
La Paugh, Louie T., Utica, N. Y. Outlet-box. No. 963,781; July 12; Sp. p. 1674; Gaz. vol. 156; p. 280.
La Pierre, Louis A. (See Kinney, Israel, assignor.)
La Pointe, Ceslos E., Los Angeles, Cal. Fireless brooder. No. 967,528; Aug. 16; Sp. p. 3624; Gaz. vol. 157; p. 622.
La Rose, William P., Hartford, Conn. Waste-pipe cleaner. No. 977,656; Dec. 6; Sp. p. 535; Gaz. vol. 161; p. 81.
La Société "Antoinette." (See Levavasseur, Léon M. J. C., assignor.)
La Société d'Exploitation de Procédés Evaporatories, Système Prache et Bouillon. (See Prache, Charles, assignor.)
La Société de la Poudre Peigne et des Brevets Jacques Luciani. (See Luciani, Jacques, assignor.)
La Société l'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude). (See Lévy and Helbronner, assignors.)
La Société pour l'Exploitation du Caoutchouc au Congo. (See Guiguet, Léon, asignor.)
La Vallee, George A., assignor to The Northwestern Chemical Company, Marietta, Ohio. Composition for stopping leaks. No. 953,626; Mar. 29; Sp. p. 6553; Gaz. vol. 152; p. 1170.
Laa, Georg, Vienna, Austria-Hungary. Elastic support for upholstered furniture. No. 969,963; Sept. 13; Sp. p. 1781; Gaz. vol. 158; p. 302.
Laas, Edward. (See Reinehr, John, assignor.)
Laas, Edward. (See Whitty and Laas.)
Laas, Edward, Chicago, Ill. Weed-cutter. No. 950,624; Mar. 1; Sp. p. 342; Gaz. vol. 152; p. 56.
Laas, Edward, Chicago, Ill., and R. Whitty, Horicon, Wis. Railway weed-cutter. No. 952,204; Mar. 15; Sp. p. 3508; Gaz. vol. 152; p. 632.
Labadie, Harry H. (See Schweitzer and Labadie.)
Labarre, George, New Orleans, La. Cigar-band. No. 959,357; May 24; Sp. p. 6352; Gaz. vol. 154; p. 1062.
Labarthe, Maurice B. de. (See Basset, Lucien P., assignor.)
Labecki, Leopold, Perth Amboy, N. J. Elevator. No. 966,220; Aug. 2; Sp. p. 812; Gaz. vol. 157; p. 129.
Labita, Nathlie, *et al.* (See De Bosco, Charles P., assignor.)
Labombarde, Elie W., Nashua, N. H. Box-making machine. No. 960,348; June 7; Sp. p. 224; Gaz. vol. 155; p. 38.
Labonte, Peter, Fall River, Mass., assignor to Crompton & Knowles Loom Works. Shedding mechanism for looms. No. 956,980; May 3; Sp. p. 1052; Gaz. vol. 154; p. 165.
Labowsky, Ernest, New York, N. Y. Life-saving device for submarine boats. No. 953,473; Mar. 29; Sp. p. 6234; Gaz. vol. 152; p. 1117.
Labryszewski, Stefan, Brooklyn, N. Y. Propeller for ships. No. 959,761; May 31; Sp. p. 7199; Gaz. vol. 154; p. 1222.
Lacey, Charles E., *et al.* (See Michael, Anceal C., assignor.)
Lacey, Elizabeth, Oakland township, Butler county, Pa. Folding box and crate. No. 971,903; Oct. 4; Sp. p. 843; Gaz. vol. 159; p. 145.
Lacey, George E., Lansing, Mich. Stamp and label affixer. No. 954,307; Apr. 5; Sp. p. 1304; Gaz. vol. 153; p. 216.
Lacey, Henry C. (See Center, Richard, assignor.)
Lachance, Alfred P. (See Lamoureux, Edmond, assignor.)
Lachance, Joseph, Morgan Hill, Cal. Smoke-cleaner. No. 967,135; Aug. 9; Sp. p. 2810; Gaz. vol. 157; p. 461.
Lachman, Laurence S. (See Lachman, Maurice and L. S.)
Lachman, Laurence S., New York, N. Y. Utensil and handle. No. 945,554; Jan. 4; Sp. p. 1187; Gaz. vol. 150; p. 183.
Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Producing tapers in metal. No. 953,041; Mar. 29; Sp. p. 5280; Gaz. vol. 152; p. 972.
Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Fence. (Reissue.) No. 13,176; Nov. 29; Sp. p. 7396; Gaz. vol. 160; p. 1249.
Lachman, Laurence S., New York, N. Y., assignor to Universal Electric Welding Company. Electric welding. No. 979,970; Dec. 27; Sp. p. 5511; Gaz. vol. 161; p. 952.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Elastic welding. No. 945,555; Jan. 4; Sp. p. 1190; Gaz. vol. 150; p. 183.
Lachman, Maurice, assignor to Welded Steel Wheel Company, New York, N. Y. Wheel. No. 948,997; Feb. 15; Sp. p. 2563; Gaz. vol. 151; p. 461.
Lachman, Maurice, assignor to Welded Steel Wheel Company, New York, N. Y. Wheel. No. 948,998; Feb. 15; Sp. p. 2564; Gaz. vol. 151; p. 461.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Telegraph-arm. No. 951,190; Mar. 8; Sp. p. 1465; Gaz. vol. 152; p. 265.
Lachman, Maurice, assignor to Welded Steel Wheel Company, New York, N. Y. Die. No. 977,639; Dec. 6; Sp. p. 498; Gaz. vol. 161; p. 75.
Lachman, Maurice and L. S., New York, N. Y. Metallic structure. No. 966,756; Aug. 9; Sp. p. 2014; Gaz. vol. 157; p. 335.
Lachman, Maurice and L. S., New York, N. Y., assignors to Universal Electric Welding Co. Making metallic fabric. No. 974,891; Nov. 8; Sp. p. 1833; Gaz. vol. 160; p. 305.
Lachman, Maurice and L. S., New York, N. Y., assignors to Universal Electric Welding Co. Making metallic fabric. No. 974,892; Nov. 8; Sp. p. 1835; Gaz. vol. 160; p. 306.
Lack, Charles T., Impington, England. Machine for closing cans and like receptacles. No. 969,166; Sept. 6; Sp. p. 33; Gaz. vol. 158; p. 8.
Lackawanna Steel Company. (See Conkling, Cloud C., assignor.)
Lackett, Jesse L. (See Peterson and Lackett.)
Lackey, Alexander. (See Wallace and Lackey.)
Lackey, George A., Augusta, Kans. Dumping apparatus. No. 978,599; Dec. 13; Sp. p. 2572; Gaz. vol. 161; p. 439.
Lackie, William J. (See Littman and Lackie.)
Lackland, Thomas C., Norfolk, Va. Splice-bar. No. 951,009; Mar. 1; Sp. p. 1123; Gaz. vol. 152; p. 182.
Lackner, Rudolph J., New York, N. Y. Spring-tire. No. 947,826; Feb. 1; Sp. p. 78; Gaz. vol. 151; p. 17.
Laclede-Christy Clay Products Company. (See Girtanner, Frederick, assignor.)
Lacombe, Louis N., New York, N. Y. Friction-gearing. No. 979,315; Dec. 20; Sp. p. 4115; Gaz. vol. 161; p. 709.
Laconia Mop-Pail and Wringer Company. (See Charpentier, Edouard, assignor.)
Lacoste, Elie, and E. Battmann, Paris, France. Propelling mechanism for motor-vehicles. No. 959,231; May 24; Sp. p. 6104; Gaz. vol. 154; p. 1020.
Lacour, Charles, Lunéville, France. Rotary reversible pump. No. 955,464; Apr. 19; Sp. p. 3815; Gaz. vol. 153; p. 670.
Lacroix, Fred, Brooklyn, assignor of one-fourth to D. S. Greenebaum and one-fourth to J. A. Cantor, New York, N. Y. Contact-shoe for third rails. No. 945,400; Jan. 4; Sp. p. 856; Gaz. vol. 150; p. 133.
Lacroix, Joseph D., assignor to E. H. Davis, New York, N. Y. Cigar-machine. No. 977,806; Dec. 6; Sp. p. 843; Gaz. vol. 161; p. 132.
Lactomode Company, The. (See Heizer, James W., assignor.)
Lacy, Charles E., *et al.* (See Michael, Anceal C., assignor.)
Lacy, Edward A., and F. C. Williams, Galeton, Pa. Valve. No. 962,766; June 28; Sp. p. 5342; Gaz. vol. 155; p. 934.
Lacy, Howard, Carshalton, England. Floating mine and the like. No. 976,376; Nov. 22; Sp. p. 5081; Gaz. vol. 160; p. 863.
Láczay, George, New York, N. Y. Distilling apparatus. No. 957,613; May 10; Sp. p. 2355; Gaz. vol. 154; p. 410.
Ladd & Baker. (See Baker, David, assignor.)
Ladd & Baker. (See Ladd and Baker, assignors.)
Ladd, Charles C. (See Krause, Albert F., assignor.)
Ladd, Edward T., Denver, Colo. Machine-wrench. No. 977,103; Nov. 29; Sp. p. 6689; Gaz. vol. 160; p. 1139.
Ladd, Elwood S., New York, N. Y. Distributing ink-fountain. No. 959,558; May 31; Sp. p. 6790; Gaz. vol. 154; p. 1155.
Ladd, James B., and D. Baker, Philadelphia, Pa., assignors to Ladd & Baker, Incorporated. Furnace. No. 968,485; Aug. 23; Sp. p. 5617; Gaz. vol. 157; p. 970.
Ladd, Sherman W., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gage. No. 976,269; Nov. 22; Sp. p. 4849; Gaz. vol. 160; p. 827.
Ladegard, Knud H., Litchfield, Nebr. Ice-cutting machine. No. 953,625; Mar. 29; Sp. p. 6551; Gaz. vol. 152; p. 1170.
Lademan, Otto T., Milwaukee, Wis. Signaling system. No. 957,973; May 17; Sp. p. 3199; Gaz. vol. 154; p. 563.

Alphabetical list of patentees—Continued.

Lademan, Otto T., Milwaukee, Wis. Telephone transmission system. No. 977,657; Dec. 6; Sp. p. 537; Gaz. vol. 161; p. 81.

Lademan, Otto T., Milwaukee, Wis. Switching system. No. 979,676; Dec. 27; Sp. p. 4875; Gaz. vol. 161; p. 854

Lademan, Otto T., Milwaukee, Wis., assignor to Railway Telephone & Electric Company, Chicago, Ill. Transmission system. No. 949,187; Feb. 15; Sp. p. 2957; Gaz. vol. 151; p. 523.

Lademan, Otto T., Milwaukee, Wis., assignor to Railway Telephone & Electric Company, Chicago, Ill. Composite system. No. 949,188; Feb. 15; Sp. p. 2959; Gaz. vol. 151; p. 524.

Lademan, Otto T., Milwaukee, Wis., assignor to Railway Telephone & Electric Company, Chicago, Ill. Transmission system. No. 956,109; Apr. 26; Sp. p. 5243; Gaz. vol. 153; p. 922.

Lademann, Otto T., Milwaukee, Wis., assignor to Railway Telephone & Electric Company, Chicago, Ill. Composite telephone and telegraph system. No. 956,373; Apr. 26; Sp. p. 5830; Gaz. vol. 153; p. 1012.

Laden, Patrick, Mattoon, assignor to Railway Specialty & Supply Company, Chicago, Ill. Tie-plate. No. 960,964; June 7; Sp. p. 1447; Gaz. vol. 155; p. 243.

Ladeveze, Charles R., Providence, R. I. Joint or miter planer tool. No. 959,017; May 24; Sp. p. 5645; Gaz. vol. 154; p. 949.

Ladley, Charles W., Ingram, Pa. Nipple-cover. No. 976,887; Nov. 29; Sp. p. 6181; Gaz. vol. 160; p. 1064.

Ladoff, Anna M., *et al.* (See Ladoff, Isador, assignor.)

Ladoff, Isador, Cleveland, Ohio, assignor of thirty one-hundredths to P. C. Peck, New York, N. Y. Arc-light electrode. No. 948,926; Feb. 8; Sp. p. 2404; Gaz. vol. 151; p. 410.

Ladoff, Isador, Schenectady, assignor of thirty one-hundredths to P. C. Peck, New York, and seventy one-hundredths to A. M. Ladoff, Schenectady, N. Y. Electrical conductor for illuminating purposes. No. 955,273; Apr. 19; Sp. p. 3405; Gaz. vol. 153; p. 606.

Ladwig, Charles F., Nora Springs, Iowa. Washing-machine. No. 951,951; Mar. 15; Sp. p. 3035; Gaz. vol. 152; p. 549.

Lafaelle, William H., Boston, Mass. Power-shipping mechanism. No. 953,847; Apr. 5; Sp. p. 331; Gaz. vol. 153; p. 59.

Lafayette, Alphonse J., Jr., assignor of one-third to J. Lafayette and one-third to C. Dupire, Pittsburg, Kans. Car-handling mechanism. No. 950,927; Mar. 1; Sp. p. 971; Gaz. vol. 152; p. 155.

Lafayette, Joseph, *et al.* (See Lafayette, Alphonse J., Jr., assignor.)

Lafean, Stuart B., York, Pa. Caramel-holder. No. 945,788; Jan. 11; Sp. p. 1730; Gaz. vol. 150; p. 291.

Lafferty, Erastus S., Galesburg, Ill. Torpedo-shell. No. 961,143; June 14; Sp. p. 1819; Gaz. vol. 155; p. 330.

Lafferty, John E., Foyil, Okla. Vegetable-storehouse. No. 961,454; June 14; Sp. p. 2495; Gaz. vol. 155; p. 439.

Laffitte, Paul O., Paris, France. Inking and inking-off mechanism for rotary printing-machines. No. 973,520; Oct. 25; Sp. p. 4423; Gaz. vol. 159; p. 773.

Lafitte, Joachim, Biarritz, France. Long-distance lighting. No. 968,774; Aug. 30; Sp. p. 6284; Gaz. vol. 157; p. 1097.

Lafleur, Eugene, Montclair, N. J. Match-stand and ash-receiver. No. 975,438; Nov. 15; Sp. p. 3039; Gaz. vol. 160; p. 519.

Lafleur, Jean S., Ville Platte, La. Hay-press. No. 956,111; Apr. 26; Sp. p. 5246; Gaz. vol. 153; p. 923.

Lafleur, Jean S., Opelousas, La. Nut-lock. No. 960,349; June 7; Sp. p. 232; Gaz. vol. 155; p. 39.

Lafont, Valéry, Lyon, France. Skein-winder. No. 957,427; May 10; Sp. p. 2009; Gaz. vol 154; p. 347.

Lafount, Robert. (See Hansen, Heber K., assignor.)

Lagonda Manufacturing Company, The. (See Ainge, George H., assignor.)

Lagonda Manufacturing Company, The. (See Bobinett and Reid, assignors.)

Lagonda Manufacturing Company, The. (See Hauer, Elmer E., assignor.)

Lagonda Manufacturing Company, The. (See Weinland, Henry F., assignor.)

Lagonda Manufacturing Company, The. (See Weinland and Ainge, assignors.)

Lagye, Benoni. (See Vandatte and Lagye.)

Lahan, Edward J., Quincy, Ill. Mail-pouch catcher and deliverer. No. 969,964; Sept. 13; Sp. p. 1782; Gaz. vol. 158; p. 303.

Lahay, Dell J., assignor of one-half to H. Sager, Coleman, Wis. Boiler-bottom. No. 955,084; Apr. 12; Sp. p. 2999; Gaz. vol. 153; p. 509.

Lahey, Lonnie A. (See Jensen and Lahey.)

Lahey, Lonnie A., assignor of one-half to C. L. Jensen, Spokane, Wash. Pad-holder. No. 956,534; May 3; Sp. p. 55; Gaz. vol. 154; p. 12.

Lahmer, Alfred P., *et al.* (See Stocklmier, Matthias, assignor.)

Lahmers, Charles E., New Philadelphia, Ohio. Automatic cut-off for gas-mains. No. 946,515; Jan. 11; Sp. p. 3404; Gaz. vol. 150; p. 545.

Lahmers, Charles E., New Philadelphia, Ohio. Automatic cut-off for gas-mains. No. 975,259; Nov. 8; Sp. p. 2670; Gaz. vol. 160; p. 431.

Lahr, Frank, Wadsworth, Ohio. Double-door lock. No. 947,641; Jan. 25; Sp. p. 5883; Gaz. vol. 150; p. 976.

Laigle, René, Paris, France. Filament for incandescent-gas-lamp mantles. No. 966,927; Aug. 9; Sp. p. 2371; Gaz. vol. 157; p. 388.

Laimer, George, Pittsburg, Pa. Cuspidor. No. 964,437; July 12; Sp. p. 3024; Gaz. vol. 156; p. 499.

Lain, David E. (See Maynard and Lain.)

Laing, Alexander, Detroit, Mich. Planetarium. No. 958,139; May 17; Sp. p. 3688; Gaz. vol. 154; p. 623.

Laing, Charles H., Racine, Wis. Penstock. No. 972,876; Oct. 18; Sp. p. 2978; Gaz. vol. 159; p. 527.

Laing, Maggie B., New York, N. Y. Coal-chute. No. 946,969; Jan. 18; Sp. p. 4397; Gaz. vol. 150; p. 723.

Lair, William J., and H. E. Widdows, Connersville, Ind. Spark-arrester. No. 951,819; Mar. 15; Sp. p. 2758; Gaz. vol. 152; p. 504.

Lajoie, Jules P., Taverny, France. Apparatus for the purification of water. No. 948,785; Feb. 8; Sp. p. 2140; Gaz. vol. 151; p. 364.

Lake, Albert H., Jr., Fentonville, N. Y. Automatic safety gas-valve. No. 970,062; Sept. 13; Sp. p. 1988; Gaz. vol. 158; p. 337.

Lake, Bertus A., Bigprairie, Ohio. Tank-closure. No. 971,450; Sept. 27; Sp. p. 4861; Gaz. vol. 158; p. 852.

Lake, Christopher J., Bridgeport, Conn. Engine. No. 971,760; Oct. 4; Sp. p. 526; Gaz. vol. 159; p. 92.

Lake, Edward N., Wheaton, and J. Cuthbert, Chicago, Ill. Panel-board. No. 959,762; May 31; Sp. p. 7200; Gaz. vol 154; p. 1222.

Lake, Leon. (See Tyberg and Lake.)

Lake, Levi B., St. Joseph, Mo. Pipe-frame for acetylene-machines. No. 959,359; May 24; Sp. p. 6354; Gaz. vol. 154; p. 1062.

Lake, Simon. (See Howell, William N., assignor.)

Lake, Simon, Bridgeport, Conn. Submarine vessel. No. 947,921; Feb. 1; Sp. p. 294; Gaz. vol. 151; p. 49.

Lake, Simon, Bridgeport, Conn. Internal-combustion engine. No. 970,063; Sept. 13; Sp. p. 1990; Gaz. vol. 158; p. 338.

Lake, Simon, Milford, Conn. Torpedo-launching apparatus. No. 949,325; Feb. 15; Sp. p. 3230; Gaz. vol. 151; p. 569.

Lake, Simon, Milford, Conn. Submarine boat. No. 970,064; Sept. 13; Sp. p. 1995; Gaz. vol. 158; p. 338.

Lake, Simon, Milford, Conn. Motor-boat. No. 978,311; Dec. 13; Sp. p. 1939; Gaz. vol. 161; p. 339.

Lake, Wilmot, Washington, D. C. Knockdown apparatus for forming artificial-stone blocks. No. 970,727; Sept. 20; Sp. p. 3399; Gaz. vol. 158; p. 583.

Lakin, Frank C., Manchester, Ill. Sliding grain-door for cars. No. 958,140; May 17; Sp. p. 3691; Gaz. vol. 154; p. 623.

Lakosky, Charles, Cooks Mills, Mich. Door-hanger. No. 960,350; June 7; Sp. p. 233; Gaz. vol. 155; p. 39.

Lakosky, Charles, Cooks Mills, Mich. Rail-joint. No. 977,020; Nov. 29; Sp. p. 6511; Gaz. vol. 160; p. 1110.

Lally, John T., Wilmington, Del. Chemical-tank for fire-extinguishers. No. 971,386: Sept. 27; Sp. p. 4755; Gaz. vol. 158; p. 831.

Lamasney, Frank I., and F. H. Pierce, Beverly Farms, Mass. Shipping-receptacle. No. 956,810; May 3; Sp. p. 672; Gaz. vol. 154; p. 106.

Lamb, Amherst G., Torrington, Conn. Hand-tool. No. 952,570; Mar. 22; Sp. p. 4282; Gaz. vol. 152; p. 784.

Lamb, Amherst G., Torrington, Conn. Brad holder and set. No. 952,571; Mar. 22; Sp. p. 4283; Gaz. vol. 152; p. 784.

Lamb, Edwin, assignor of one-half to G. B. Buehrle, Youngstown, Ohio. Slag-disintegrator. No. 971,853; Oct. 4; Sp. p. 726; Gaz. vol. 159; p. 127.

Lamb, Elden P., Camden, assignor to Camden Anchor-Rockland Machine Co., Rockland, Me. Vaporizer for hydrocarbon-engines. No. 964,657; July 19; Sp. p. 3544; Gaz. vol. 156; p. 607.

Lamb, George L., Nappanee, Ind. Open-link chain. No. 970,242; Sept. 13; Sp. p. 2365; Gaz. vol. 158; p. 398.

Lamb, Henry L. (See Lloyd, Harry S., assignor.)

Lamb, Joseph F., assignor to Landers, Frary and Clark, New Britain, Conn. Lamp-pump. No. 963,228; July 5; Sp. p. 508; Gaz. vol. 156; p. 72.

Lamb, Restore B., Mount Holly, N. J. Protector for telegraph and other poles. No. 966,337; Aug. 2; Sp. p. 1019; Gaz. vol. 157; p. 165.

Lamb, Walter, Hanover, Pa. Dental hot-air appliance. No. 953,042; Mar. 29; Sp. p. 5282; Gaz. vol. 152; p. 973.

Lamb, Willie E., Green Forest, Ark. Beam and trace connection. No. 974,979; Nov. 8; Sp. p. 2062; Gaz. vol. 160; p. 336.

Lambe, Floyd. (See Gates, Hiram W., assignor.)

Lambert, Asher, Newark, N. J. Semi-portable hoisting and conveying apparatus. No. 948,281; Feb. 1; Sp. p. 1021; Gaz. vol. 151; p. 168.

Lambert, Asher, Newark, N. J. Winch attachment for stationary hoister-shafts. No. 967,202; Aug. 16; Sp. p. 2951; Gaz. vol. 157; p. 510.

Alphabetical list of patentees—Continued.

Lambert, Asher, Newark, N. J. Derrick pivot connection. No. 967,203; Aug. 16; Sp. p. 2953; Gaz. vol. 157; p. 511.
Lambert, Asher, Newark, N. J. Hoisting and conveying apparatus. No. 978,312; Dec. 13; Sp. p. 1946; Gaz. vol. 161; p. 339.
Lambert, George A., Anderson, Ind. Saw-gage. No. 954,192; Apr. 5; Sp. p. 1052; Gaz. vol. 153; p. 178.
Lambert, George A., Anderson, Ind. Neck-yoke center. No. 958,141; May 17; Sp. p. 3692; Gaz. vol. 154; p. 624.
Lambert, George A., Memphis, Tenn. Bed-couch. No. 964,277; July 12; Sp. p. 2718; Gaz. vol. 156; p. 448.
Lambert, George A., Anderson, Ind. Machine for forming heel-irons for vehicle-shafts. No. 979,517; Dec. 27; Sp. p. 4520; Gaz. vol. 161; p. 798.
Lambert, George W., Richmond, Va. Wall construction. No. 951,010; Mar. 1; Sp. p. 1124; Gaz. vol. 152; p. 182.
Lambert, George W., Richmond, Va. Wall construction. No. 951,011; Mar. 1; Sp. p. 1127; Gaz. vol. 152; p. 183.
Lambert, Gerard B., New York, N. Y. Drawing-board. No 969,638; Sept. 6; Sp. p. 1038; Gaz. vol. 158; p. 166.
Lambert, John W., Anderson, Ind. Friction driving mechanism. No. 954,977; Apr. 12; Sp. p. 2806; Gaz. vol. 153; p. 475.
Lambert, Irving D., Rumford, Me. Nail-holder. No. 951,646; Mar. 8; Sp. p. 2400; Gaz. vol. 152; p. 415.
Lamberton, Robert L., Sistersville, W. Va. Hoisting device. No. 975,876; Nov. 15; Sp. p. 3959; Gaz. vol. 160; p. 667.
Lamerson, Fletcher, Flanders, assignor of one-half to B. Joachim, Newark, N. J. Horseshoe. No. 966,338; Aug. 2; Sp. p. 1021; Gaz. vol. 157; p. 165.
Lamkin, Sayers B., Dawson, N. Mex. Hand for comptometers. No. 957,221; May 10; Sp. p. 1567; Gaz. vol. 154; p. 276.
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 947,389; Jan. 25; Sp. p. 5303; Gaz. vol. 150; p. 891.
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Operating electric motors. No. 964,658; July 19; Sp. p. 3546; Gaz. vol. 156; p. 607.
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for operating and controlling single-phase alternating-current motors. No. 964,659; July 19; Sp. p. 3550; Gaz. vol. 156; p. 608.
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Operating and controlling single-phase alternating-current motors. No. 964,793; July 19; Sp. p. 3932; Gaz. vol. 156; p. 654.
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control for electric motors. No. 964,794; July 19; Sp. p. 3936; Gaz. vol. 156; p. 654.
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of operation for dynamo-electric machines. No. 977,640; Dec. 6; Sp. p. 500; Gaz. vol. 161; p. 76.
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System for the operation of dynamo-electric machines. No. 977,641; Dec. 6; Sp. p. 506; Gaz. vol. 161; p. 76.
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of regenerative control for electric motors. No. 978,038; Dec. 6; Sp. p. 1329; Gaz. vol. 161; p. 213.
Lammersen, William, Los Angeles, Cal. Ball-playing apparatus. No. 950,569; Mar. 1; Sp. p. 227; Gaz. vol. 152, p. 38.
Lamond, David D., Pittsburg, Pa. Checker-brick for hot-blast stoves. No. 951,012; Mar. 1; Sp. p. 1128; Gaz. vol. 152; p. 183.
Lamont, John A., St. Louis, Mo., assignor to American Steel Foundries, Chicago, Ill. Brake-beam. No. 974,283; Nov. 1; Sp. p. 463; Gaz. vol. 160; p. 68.
Lamont, Robert P., *et al.* (See Murray, Charles F., assignor.)
Lamoreaux, Frank L. (See Bertram and Lamoreaux.)
Lamoreaux, James W., Massillon, Ohio. Car-brake. No. 951,820; Mar. 15; Sp. p. 2760; Gaz. vol. 152; p. 504.
Lamort, Marcel, Vitry-le-François, France. Controlling mechanism for change-speed gearing. No. 970,836; Sept. 20; Sp. p. 3651; Gaz. vol. 158; p. 623.
Lamoureux, Edmond, Montreal, Quebec, Canada, assignor of one-half to A. P. Lachance, Gardner, Mass. Fire-alarm. No. 946,857; Jan. 18; Sp. p. 4139; Gaz. vol. 150; p. 685.
Lamp, Joseph A., and S. C. Stiner, McKeesport, Pa. Making tin-plate. No. 951,952; Mar. 15; Sp. p. 3036; Gaz. vol. 152; p. 550.
Lamp, Joseph A., and S. C. Stiner, McKeesport, Pa. Apparatus for the manufacture of tin-plate. No. 956,981; May 3; Sp. p. 1054; Gaz. vol. 154; p. 165.
Lamp, Joseph A., and S. C. Stiner, McKeesport, Pa. Drying-roll. No. 977,410; Nov. 29; Sp. p. 7358; Gaz. vol. 160; p. 1245.
Lamphier, Charles F., and M. F. Trenchard, Prattsburg, N. Y. Sliding-door-hanging device. No. 946,376; Jan. 11; Sp. p. 3096; Gaz. vol. 150; p. 497.
Lamplough, Frederick, London, England. Rotary motor, pump, and the like. No. 953,474; Mar. 29; Sp. p. 6235; Gaz. vol. 152; p. 1118.
Lamplough, Frederick, London, England. Resilient tire. No. 975,539; Nov. 15; Sp. p. 3269; Gaz. vol. 160; p. 555.
Lamplough, Frederick, London, England. Two-cycle internal-combustion motor. No. 979,971; Dec. 27; Sp. p. 5513; Gaz. vol. 161; p. 953.
Lampman, Herman W., assignor to W. E. Snyder, Lagrange, Ind. Brick-machine. No. 978,600; Dec. 13; Sp. p. 2574; Gaz. vol. 161; p. 439.
Lamprecht, Emil, Philadelphia, Pa. Cue-tip. No. 971,201; Sept. 27; Sp. p. 4394; Gaz. vol. 158; p. 771.
Lamrick, W. J., *et al.* (See Semsmon, Andrew O., assignor.)
Lamson Consolidated Store Service Company. (See Amsden, George A., assignor.)
Lamson Consolidated Store Service Company. (See Cowley, James T., assignor.)
Lamson Consolidated Store Service Company. (See Cowley and Thomas, assignors.)
Lamson Consolidated Store Service Company. (See Dunbar, Howard R., assignor.)
Lamson Consolidated Store Service Company. (See Fordyce, Edmond A., assignor.)
Lamson Consolidated Store Service Company. (See Jennings, Chester S., assignor.)
Lamson Consolidated Store Service Company. (See Libby, Charles R., assignor.)
Lamson Consolidated Store Service Company. (See Litchfield, Isaac W., assignor.)
Lamson Consolidated Store Service Company. (See Maclaren, James G., assignor.)
Lamson Consolidated Store Service Company. (See Pearsall, Albert W., assignor.)
Lamson Consolidated Store Service Company. (See Pitt, John A., assignor.)
Lamson Consolidated Store Service Company. (See Thomas, Edward G., assignor.)
Lamson Consolidated Store Service Company. (See Waterhouse, Harold D., assignor.)
Lamson, Eastburne E., Salt Lake City, Utah. Gas and steam power-generator. No. 947,107; Jan. 18; Sp. p. 4650; Gaz. vol. 150; p. 767.
Lamson, Franklin S., assignor to Cosmos Construction Company, Washington, D. C. Making concrete dams, walls, bridges, conduits, sewers, &c. No. 963,159; July 5; Sp. p. 334; Gaz. vol. 156; p. 47.
Lana, William M., Harlan, Iowa. Corrugated sheet-metal culvert. No. 950,928; Mar. 1; Sp. p. 974; Gaz. vol. 152; p. 156.
Lancaster, C. L. (See Everest, Laban J., assignor.)
Lancaster, Charles F., Petoskey, Mich. Concrete-mixing machine. No. 953,961; Apr. 5; Sp. p. 539; Gaz. vol. 153; p. 98.
Lancaster, John A., *et al.* (See Bryant, William A., assignor.)
Lancaster, Louella, Quincy, Ky. Hose-coupling. No. 975,138; Nov. 8; Sp. p. 2404; Gaz. vol. 160; p. 390.
Lancaster, P. R. (See Kollenberg, Frederick G., assignor.)
Lancaster Scale Company. (See Shock, Abraham H., assignor.)
Lance, Andrew M., Batson, Tex. Nut-lock. No. 969,543; Sept. 6; Sp. p. 846; Gaz. vol. 158; p 133.
Lance, George. (See Lance, Flowers, and Lance.)
Lance, Joseph, J. C. Flowers, and G. Lance, St. Joseph, Mo. Machine for skinning and splitting cattle and scribing hogs. No. 977,317; Nov. 29; Sp. p. 7123; Gaz. vol. 160; p. 1212.
Land, Edward M., *et al.* (See Ashford, Thomas B., assignor.)
Land, Gordon, assignor to U. S. Flush Tank Company, Inc., Seattle, Wash. Valve. No. 977,807; Dec. 6; Sp. p. 846; Gaz. vol. 161; p. 133.
Land, Henry S., Brockley, England. Lathe and other tool holder for cutting, shaping, and screwing purposes. No. 958,654; May 17; Sp. p. 4857; Gaz. vol. 154; p. 798.
Land, Martin R., Norfolk, Va. Printing-press. No. 975,963; Nov. 15; Sp. p. 4131; Gaz. vol. 160; p. 698.
Landa, Karl, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Key-lever cup. No. 971,050; Sept. 27; Sp. p. 4074; Gaz. vol. 158; p. 721.
Landau, David, and A. Golden, New York, N. Y. Automobile-radiator. No. 947,496; Jan. 25; Sp. p. 5580; Gaz. vol. 150; p. 927.
Lande, Harry A., *et al.* (See Neuman, Isaac, assignor.)
Lande, Max, New York, N. Y. Window. No. 951,442; Mar. 8; Sp. p. 1992; Gaz. vol. 152; p. 346.
Lander, Andrew H., Port Chester, N. Y. Skirt-marker. No. 969,544; Sept. 6; Sp. p. 847; Gaz. vol. 158; p. 133.
Landers, Frary and Clark. (See Curtiss, George E., assignor.)
Landers, Frary and Clark. (See Lamb, Joseph F., assignor.)
Landers, Frary and Clark. (See Moberg, Oscar, assignor.)
Landers, Frary and Clark. (See Smith, Charles F., assignor.)
Landers, Frary and Clark. (See Spellman and Olmsted, assignors.)

Alphabetical list of patentees—Continued.

Landers, Frary and Clark. (See Walker, George, assignor.)
Landers, Frary and Clark. (See Warner, Alonzo A., assignor.)
Landers, John A., Jackson, Mich. Brake. No. 969,167; Sept. 6; Sp. p. 37; Gaz. vol. 158; p. 9.
Landes, Joseph C., Collegeville, Pa. Gas igniter and extinguisher. No. 952,205; Mar. 15; Sp. p. 3512; Gaz. vol. 152; p. 632.
Landes, Joseph C., Collegeville, Pa. Automatic gas-lighter. No. 968,486; Aug. 23; Sp. p. 5621; Gaz. vol. 157; p. 970.
Landes, Joseph C., Collegeville, Pa. Automatic gas-controller. No. 974,980; Nov. 8; Sp. p. 2063; Gaz. vol. 160; p. 336.
Landgraff, Henry M., assignor to M. Loewenstein, New York, N. Y. Strainer-support. No. 953,274; Mar. 29; Sp. p. 5803; Gaz. vol. 152; p. 1049.
Landholm, Victor, Westpoint, Nebr. Road-grader. No. 974,397; Nov. 1; Sp. p. 712; Gaz. vol. 160; p. 108.
Landin, Nils E., Brooklyn, N. Y. Automatic step for cars. No. 963,589; July 5; Sp. p. 1263; Gaz. vol. 156; p. 193.
Landine, Peter N. (See Murphy, Barney, assignor.)
Landis, Abraham B., Waynesboro, Pa. Bolt cutting and pointing machine. No. 948,885; Feb. 8; Sp. p. 2324; Gaz. vol. 151; p. 396.
Landis, Abraham B., Waynesboro, Pa. Cutter-head for bolt-cutting machines. No. 948,886; Feb. 8; Sp. p. 2328; Gaz. vol. 151; p. 396.
Landis, Abraham B., Waynesboro, Pa. Bolt-cutting machine. No. 948,887; Feb. 8; Sp. p. 2331; Gaz. vol. 151; p. 397.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 948,888; Feb. 8; Sp. p. 2334; Gaz. vol. 151; p. 397.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 948,889; Feb. 8; Sp. p. 2339; Gaz. vol. 151; p. 398.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 948,890; Feb. 8; Sp. p. 2344; Gaz. vol. 151; p. 398.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 948,891; Feb. 8; Sp. p. 2347; Gaz. vol. 151; p. 399.
Landis, Abraham B., Waynesboro, Pa. Change-speed gearing. No. 948,892; Feb. 8; Sp. p. 2350; Gaz. vol. 151; p. 399.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 948,893; Feb. 8; Sp. p. 2352; Gaz. vol. 151; p. 400.
Landis, Abraham B., Waynesboro, Pa. Sash-lock. No. 959,559; May 31; Sp. p. 6793; Gaz. vol. 154; p. 1155.
Landis, Abraham B., Waynesboro, Pa. Shutter-hinge. No. 959,560; May 31; Sp. p. 6795; Gaz. vol. 154; p. 1156.
Landis, Abraham B., Waynesboro, Pa., assignor to Landis Tool Company. Grinding-machine. No. 945,463; Jan. 4; Sp. p. 971; Gaz. vol. 150; p. 153.
Landis, Abraham B., Waynesboro, Pa., assignor to Landis Tool Company. Grinding-machine. No. 945,464; Jan. 4; Sp. p. 976; Gaz. vol. 150; p. 153.
Landis, Abraham B., Waynesboro, Pa., assignor to Landis Tool Company. Grinding-machine. No. 945,465; Jan. 4; Sp. p. 981; Gaz. vol. 150; p. 154.
Landis, Abraham B., Waynesboro, Pa., assignor to Landis Tool Company. Diamonding-tool for grinding-machines. No. 945,466; Jan. 4; Sp. p. 983; Gaz. vol. 150; p. 154.
Landis, Abraham B., Waynesboro, Pa., assignor to Landis Tool Company. Grinding-machine. No. 945,467; Jan. 4; Sp. p. 985; Gaz. vol. 150; p. 155.
Landis, Frank F., Waynesboro, Pa. Separating-grate for threshing-machines. No. 959,561; May 31; Sp. p. 6796; Gaz. vol. 154; p. 1156.
Landis, Gilbert C., Wadsworth, and J. H. Smith, Rittman, assignors to Ohio Salt Company, Wadsworth, Ohio. Electrolytic cell. No. 974,576; Nov. 1; Sp. p. 1152; Gaz. vol. 160; p. 174.
Landis, Israel L., Chicago, Ill. Gate. No. 948,229; Feb. 1; Sp. p. 921; Gaz. vol. 151; p. 151.
Landis, Israel L., Chicago, Ill. Gate-fitting. No. 950,671; Mar. 1; Sp. p. 442; Gaz. vol. 152; p. 72.
Landis, Israel L., Chicago, Ill. Molding apparatus. No. 978,903; Dec. 20; Sp. p. 3180; Gaz. vol. 161; p. 564.
Landis, John T. (See Harding, John, Jr., assignor.)
Landis Machine Company. (See Blair, William R., assignor.)
Landis Machine Company. (See Pedersen, Christian, assignor.)
Landis Tool Company. (See Landis, Abraham B., assignor.)
Landis, William A., and L. A. Costa, Glen Ellen, Cal. Egg transfer and testing device. No. 978,601; Dec. 13; Sp. p. 2576; Gaz. vol. 161; p. 439.
Landon, Asa E., assignor to American Sales Book Company, Elmira, N. Y. File. No. 963,446; July 5; Sp. p. 969; Gaz. vol. 156; p. 145.
Landwehr, John H., Sheboygan, Wis. Drinking vessel. No. 954,978; Apr. 12; Sp. p. 2808; Gaz. vol. 153; p. 475.
Lane, Arthur P. (See Hotchkiss and Lane.)
Lane, Charles W., Fishkill, N. Y. Device for raising and moving invalids. No. 953,962; Apr. 5; Sp. p. 544; Gaz. vol, 153; p. 98.
Lane, Francis L., Leeds, England. Door suitable for closing openings in ships' bulkheads and other purposes. No. 970,838; Sept. 20; Sp. p. 3654; Gaz. vol. 158; p. 624.
Lane, Francis L., assignor to Leeds Forge Company, Limited, Leeds, England. Freight-car door. No. 970,837; Sept. 20; Sp. p. 3653; Gaz. vol. 158; p. 624.
Lane, Frederic A., assignor to D. H. Burrell & Company, Little Falls, N. Y. Milking-machine. No. 951,403; Mar. 8; Sp. p. 1926; Gaz. vol. 152; p. 334.
Lane, Frederic A., assignor to D. H. Burrell & Company, Little Falls, N. Y. Teat-cup for milking-machines. No. 952,122; Mar. 15; Sp. p. 3357; Gaz. vol. 152; p. 604.
Lane, Frederic A., assignor to D. H. Burrell & Company, Little Falls, N. Y. Milking-machine. No. 979,174; Dec. 20; Sp. p. 3832; Gaz. vol. 161; p. 663.
Lane, George, Poughkeepsie, N. Y., assignor to Lane Motor Vehicle Company. Water-level regulator and indicator. No. 976,741; Nov. 22; Sp. p. 5830; Gaz. vol. 160; p. 987.
Lane, George A., Florence, assignor of one-half to E. C. Kellermeyer, Taft, Cal. Pipe-tongs. No. 963,903; July 12; Sp. p. 1953; Gaz. vol. 156; p. 321.
Lane, Harrison E., Fairview, Okla. Coin-controlled lock. No. 948,894; Feb. 8; Sp. p. 2356; Gaz. vol. 151; p. 400.
Lane, James R., Ludington, Mich. Squeegee or window-cleaner. No. 948,630; Feb. 8; Sp. p. 1805; Gaz. vol. 151; p. 310.
Lane, James R., Ludington, Mich. Window-cleaner. No. 948,631; Feb. 8; Sp. p. 1807; Gaz. vol. 151; p. 311.
Lane, John, Holly, Mich. Mold for fence-posts. No. 972,699; Oct. 11; Sp. p. 2579; Gaz. vol. 159; p. 439.
Lane, John H. (See Kingston and Lane.)
Lane, John J., St. Louis, Mo. Bottle-cooling device. No. 965,307; July 26; Sp. p. 4981; Gaz. vol. 156; p. 857.
Lane Motor Vehicle Company. (See Lane, George, assignor.)
Lane, Oliver H., *et al.*, executors. (See Bounds and Ellenburg.)
Lane, Oliver H., *et al.*, executors. (See Cunniff, John V.)
Lane, Oliver H., *et al.*, executors. (See Draper, William F.)
Lane, Oliver H., *et al.*, executors. (See Northrop, Jonas.)
Lane, Oliver H., *et al.*, executors. (See Wood, Everett S.)
Lane, Victor E., Berwick, Pa. Tool-holder for pneumatic hammers. No. 951,013; Mar. 1; Sp. p. 1130; Gaz. vol. 152; p. 183.
Lane, Victor E., Berwick, Pa., assignor to American Car and Foundry Company, St. Louis, Mo. Mine-car buffer. No. 959,232; May 24; Sp. p. 6106; Gaz. vol. 154; p. 1020.
Lane, Willey B., Philadelphia, Pa., assignor to J. C. McCarty & Co. Ratchet mechanism for screw-drivers, wrenches, &c. No. 969,379; Sept. 6; Sp. p. 494; Gaz. vol. 158; p. 79.
Lane, Willey B., New York, N. Y., assignor of one-half to J. C. McCarty & Co. Ratchet mechanism for screw-drivers and the like. No. 979,862; Dec. 27; Sp. p. 5305; Gaz. vol. 161; p. 918.
Lane, William P., Troy, N. Y. Putty knife and scraper. No. 952,746; Mar. 22; Sp. p. 4673; Gaz. vol. 152; p. 845.
Lane, Wilton V., Eureka Springs, Ark. Trousers stretcher and presser. No. 948,895; Feb. 8; Sp. p. 2357; Gaz. vol. 151; p. 400.
Laney, Geo. K., *et al.* (See Douglass, Archibald A., Jr., and D. F., assignors.)
Laney, Roachel B., *et al.* (See Douglass, Archibald A., Jr., and D. F., assignors.)
Laney, Robt. K., *et al.* (See Douglass, Archibald A., Jr., and D. F., assignors.)
Laney, William S., Lithopolis, assignor of one-half to S. A. Ketterman, Westerville, Ohio. Concrete building. No. 955,597; Apr. 19; Sp. p. 4113; Gaz. vol. 153; p. 715.
Lang, Adolph, Philadelphia, Pa. Pipe-coupling. No. 966,928; Aug. 9; Sp. p. 2372; Gaz. vol. 157; p. 388.
Lang, Arthur F., South Jacksonville, Fla. Bicycle-saddle. No. 951,014; Mar. 1; Sp. p. 1131; Gaz. vol. 152; p. 183.
Lang, Camille, assignor of one-half to N. P. McClees, Wilmington, Del. Control device for air-brake mechanisms. No. 964,168; July 12; Sp. p. 2494; Gaz. vol. 156; p. 410.
Lang-Cobb Manufacturing Company. (See Cobb, Elmer M., assignor.)
Lang, Edward M., Jr. (See Cobb, Elmer M., assignor.)
Lang, Edward M., Jr., Portland, Me. Solder-hemmed cap. No. 949,582; Feb. 15; Sp. p, 3775; Gaz. vol. 151; p. 656.
Lang, Edward M., Jr., Portland, Me. Coiling-machine. No. 978,039; Dec. 6; Sp. p. 1331; Gaz. vol. 161; p. 213.
Lang, Edward M., Jr., Portland, Me. Making solder rings. No. 978,040; Dec. 6; Sp. p. 1332; Gaz. vol. 161; p. 213.
Lang, Frank. (See Brostrom and Lang.)
Lang, George J., Baldwin township, Allegheny county, Pa. Embroidery-hoop. No. 966,929; Aug. 9; Sp. p. 2374; Gaz. vol. 157; p. 389.
Lang, George L., Cleveland, Ohio. Candle-shade holder. No. 945,963; Jan. 11; Sp. p. 2136; Gaz. vol. 150; p. 355.
Lang, George R., Meadville, Pa. Milling-machine. No. 963,904; July 12; Sp. p. 1954; Gaz. vol. 156; p. 321.
Lang, George R., Meadville, Pa. Tool-holder. No. 973,052; Oct. 18; Sp. p. 3404; Gaz. vol. 159; p. 589.

Alphabetical list of patentees—Continued.

Lang, Hubert, assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype-plate-casting machine. No. 945,789; Jan. 11; Sp. p. 1731; Gaz. vol. 150; p. 291.

Lang, Jake, Clearmont, Wyo. Valve for irrigating systems. No. 946,516; Jan. 11; Sp. p. 3406; Gaz. vol. 150; p. 545.

Lang, James S., Boston, Mass. Apparatus for distilling hydrocarbon oils. No. 954,575; Apr. 12; Sp. p. 1869; Gaz. vol. 153; p. 334.

Lang, James S., Boston, Mass., assignor to National Snow Melting Company, Woodsville, N. H. Safety-can. No. 950,929; Mar. 1; Sp. p. 977; Gaz. vol. 152; p. 156.

Lang, John B. (See Spore and Lang.)

Lang, John E. (See Raber and Lang.)

Lang, John E., Evansville, Ind. Stovepipe or flue-cap fastener. No. 954,308; Apr. 5; Sp. p. 1306; Gaz. vol. 153; p. 216.

Lang, Josiah W., Floris, Iowa. Egg-lifter. No. 962,362; June 21; Sp. p. 4451; Gaz. vol. 155; p. 767.

Lang, Leo A., Southmayd, Tex. Cotton-chopper. No. 955,085; Apr. 12; Sp. p. 3000; Gaz. vol. 153; p. 509.

Lang, Lincoln A., Yule, N. D. Rotary gas-engine. No. 953,788; Apr. 5; Sp. p. 207; Gaz. vol. 153; p. 38.

Lang, Reuben R., Iola, Kans. Electric plug. No. 957,891; May 17; Sp. p. 2955; Gaz. vol. 154; p. 534.

Lang, Robert, *et al.* (See Ward, Lloyd W., assignor.)

Langdon, George W. (See Aselstine and Langdon.)

Lange, Elias, assignor to H. Lange Wagon Co., Pittsburg, Pa. Vehicle. No. 962,229; June 21; Sp. p. 4168; Gaz. vol. 155; p. 724.

Lange, Felix. (See Goldschmidt and Lange.)

Lange, George, Boston, Mass. Brush. No. 945,238; Jan. 4; Sp. p. 486; Gaz. vol. 150; p. 79.

Lange, Gustav J., Eau Claire, Wis. Marking attachment for canning-machines. No. 970,839; Sept. 20; Sp. p. 3655; Gaz. vol. 158; p. 624.

Lange, Richard, Glashütte, Germany. Hair-spring collet for timepieces. No. 975,697; Nov. 15; Sp. p. 3602; Gaz. vol. 160; p. 607.

Lange, Walther, Zwickau, Germany. Truss. No. 966,221; Aug. 2; Sp. p. 813; Gaz. vol. 157; p. 129.

Langefeld, Gustav, Cincinnati, Ohio. Weather-strip. No. 968,775; Aug. 30; Sp. p. 6285; Gaz. vol. 157; p. 1097.

Langen, George. (See Meier and Langen.)

Langénieux, Lucien, assignor of one-half to C. Beluze, Roanne, France. Weft-replenishing apparatus for weaving-looms. No. 960,965; June 7; Sp. p. 1448; Gaz. vol. 155; p. 243.

Langenohl, Ewald, Wermelskirchen, Germany. Apparatus for lasting boots and shoes. No. 973,521; Oct. 25; Sp. p. 4426; Gaz. vol. 159; p. 773.

Langer, Paul, Milwaukee, Wis. Speed-regulator for explosive-engines. No. 966,567; Aug. 9; Sp. p. 1583; Gaz. vol. 157; p. 270.

Langer, William K. H., Philadelphia, Pa. Skylight. No. 959,018; May 24; Sp. p. 5646; Gaz. vol. 154; p. 949.

Langerfeld, Arthur, Scranton, Pa. Separator for lump material. No. 977,956; Dec. 6; Sp. p. 1155; Gaz. vol. 161; p. 186.

Langfeld Bros. & Company. (See Greenbaum, Oscar, assignor.)

Langford, Edwin R., assignor of one-half to J. R. Meskimons, Reno, Nev. Hoof-parer. No. 973,053; Oct. 18; Sp. p. 3405; Gaz. vol. 159; p. 590.

Langh, Leopold, Vienna, Austria-Hungary. Tooth-brush. No. 969,639; Sept. 6; Sp. p. 1040; Gaz. vol. 158; p. 167.

Langhaar, Louis, Bristol, Conn. Coupling. No. 967,395; Aug. 16; Sp. p. 3350; Gaz. vol. 157; p. 578.

Langharst, Frederick, Evans City, Pa. Register-operating car-step. No. 949,299; Feb. 15; Sp. p. 3182; Gaz. vol. 151; p. 561.

Langlet, Charles. (See Féry and Langlet.)

Langley, George. (See Kohout and Langley, assignors.)

Langley, Robert C. (See Kohout and Langley.)

Langley, Wilmot M., Portland, Oreg. Folding stool. No. 978,904; Dec. 20; Sp. p. 3182; Gaz. vol. 161; p. 565.

Langlois, Frank R. (See Evans, Marcaurele, and Langlois.)

Langman, Max, New York, N. Y. Cloth-cutter. No. 957,070; May 3; Sp. p. 1227; Gaz. vol. 154; p. 195.

Langsdon, Al Vernas, St. Louis, Mo. Stencil-cutting machine. No. 955,972; Apr. 26; Sp. p. 4950; Gaz. vol. 153; p. 875.

Langstaff, Lewis G., New York, N. Y. Tampon. No. 969,640; Sept. 6; Sp. p. 1041; Gaz. vol. 158; p. 167.

Langston, Robert H., *et al.* (See Strange, William H., assignor.)

Langstrom, Albert, assignor of one-half to F. Langstrom, Council Bluffs, Iowa. Door-fastener. No. 965,913; Aug. 2; Sp. p. 139; Gaz. vol. 157; p. 23.

Langstrom, Frank. (See Langstrom, Albert, assignor.)

Langstroth, Walter, Washington, D. C. Gun-sight protector. No. 958,655; May 17; Sp. p. 4861; Gaz. vol. 154; p. 798.

Langton, George H., Los Angeles, Cal. Self-cushioning wheel. No. 945,468; Jan. 4; Sp. p. 989; Gaz. vol. 150; p. 155.

Langton, George H., Los Angeles, Cal. Wheel. No. 973,054; Oct. 18; Sp. p. 3407; Gaz. vol. 159; p. 590.

Langum, Conrad, Volga, S. D. Attachment for hay-stackers. No. 979,677; Dec. 27; Sp. p. 4877; Gaz. vol. 161; p. 855.

Langworthy, John S., assignor of one-half to E. J. Moneuse, New York, N. Y. Coffee and water urn. No. 964,029; July 12; Sp. p. 2212; Gaz. vol. 156; p. 364.

Langworthy, Solon M., Cedar Rapids, Iowa. Surgical table. No. 978,760; Dec. 13; Sp. p. 2905; Gaz. vol. 161; p. 491.

Lanier, Lewis H., Newport, Ky., assignor of one-half to L. L. Stricker, Cincinnati, Ohio. Ice-cream-cone oven. No. 964,873; July 19; Sp. p. 4093; Gaz. vol. 156; p. 682.

Laning, George, La Salle, Ill. Steering-gear for automobiles. No. 953,698; Apr. 5; Sp. p. 37; Gaz. vol. 153; p. 9.

Lanneau, Edgard de. (See Torchebeuf and Lanneau.)

Lannert, Charles H. (See Crosby, Jacob E., assignor.)

Lannert-King Company, The. (See King, Phineas F., assignor.)

Lanning, Charles D. (See Field, Lanning, Hathaway, and Blanchard.)

Lanning, Charles D., Boston, Mass. Warp stop mechanism for looms. No. 976,377; Nov. 22; Sp. p. 5083; Gaz. vol. 160; p. 863.

Lanning, Charles D., Boston, Mass. Stop-motion for looms. No. 976,378; Nov. 22; Sp. p. 5087; Gaz. vol. 160; p. 863.

Lanning, Edward C., St. Charles, Ill. Cement block. No. 960,562; June 7; Sp. p. 666; Gaz. vol. 155; p. 109.

Lanning, Howard H. (See Jacobs and Lanning.)

Lanning, James K., Dorchester, Mass. Warp stop mechanism. No. 976,379; Nov. 22; Sp. p. 5090; Gaz. vol. 160; p. 864.

Lannmark, Johannes K., Stockholm, Sweden. Corking-machine. No. 973,522; Oct. 25; Sp. p. 4428; Gaz. vol. 159; p. 774.

Lanoix, Frederick W., assignor to A. W. Farney, Kansas City, Mo. Crude-oil burner. No. 950,450; Feb. 22; Sp. p. 5619; Gaz. vol. 151; p. 985.

Lanphier, Robert C., assignor to Sangamo Electric Company, Springfield, Ill. Shunt for electric meters. No. 958,508; May 17; Sp. p. 4575; Gaz. vol. 154; p. 751.

Lanquist, Andrew, Chicago, Ill. Form for concrete. No. 951,477; Mar. 8; Sp. p. 2069; Gaz. vol. 152; p. 359.

Lansburgh, Julius, *et al.* (See Odenwald, John J., assignor.)

Lansdell, Frederick H., Atlanta, Ga. Electric-sign letter. No. 972,877; Oct. 18; Sp. p. 2980; Gaz. vol. 159; p. 528.

Lansdowne, Elias T., Copper Cliff, Ontario, Canada, assignor to International Nickel Company, New York, N. Y. Grinding-mill. No. 952,820; Mar. 22; Sp. p. 4839; Gaz. vol. 152; p. 870.

Lansing Wheelbarrow Company. (See Verplanck, Holly M., assignor.)

Lanston Monotype Machine Company. (See Bancroft and Indahl, assignors.)

Lanston Monotype Machine Company. (See Bancroft and Knight, assignors.)

Lanston Monotype Machine Company. (See Chanonhouse, Frederick S., assignor.)

Lanston Monotype Machine Company. (See Dunavant, Everett S., assignor.)

Lanston Monotype Machine Company. (See Lanston, Tolbert, assignor.)

Lanston Monotype Machine Company. (See Pierpont, Frank H., assignor.)

Lanston, Tolbert, Washington, D. C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Controller composing-machine. No. 952,621; Mar. 22; Sp. p. 4395; Gaz. vol. 152; p. 803.

Lantz, Lester R. (See Arthur, Richard S., assignor.)

Lantzer, Miller S., Streator, Ill. Automatic lawn-sprinkler. No. 968,487; Aug. 23; Sp. p. 5624; Gaz. vol. 157; p. 971.

Lanum, Walter R., Philadelphia, Pa. Soldering-iron. No. 959,233; May 24; Sp. p. 6108; Gaz. vol. 154; p. 1020.

Lapersonnerie, Louis, New York, N. Y. Concrete wall construction. No. 959,360; May 24; Sp. p. 6356; Gaz. vol. 154; p. 1063.

Lapham, Frank W., *et al.* (See Hachmann, Frederick, assignor.)

Lapham, Herbert L., Caledonia, Minn. Seed-tester. No. 979,175; Dec. 20; Sp. p. 3833; Gaz. vol. 161; p. 663.

Lapish, Edward D., Evans City, Pa. Rail-joint. No. 955,274; Apr. 19; Sp. p. 3406; Gaz. vol. 153; p. 606.

Laport, Eli, Hoosick Falls, N. Y. Door-check. No. 967,394; Aug. 16; Sp. p. 3348; Gaz. vol. 157; p. 577.

Lappen, James E., Le Roy, Minn. Feed-grinder. No. 954,114; Apr. 5; Sp. p. 870; Gaz. vol. 153; p. 151.

Larcher, Frank W., assignor to A. H. Lent, Oakland, Cal. Dirigible lamp for motor-vehicles. No. 967,529; Aug. 16; Sp. p. 3626; Gaz. vol. 157; p. 623.

Lares, Royal, St. Paul Park, Minn. Electrical heater. No. 955,598; Apr. 19; Sp. p. 4116; Gaz. vol. 153; p. 716.

Laridon, Louise B., New York, N. Y. Garment-stiffener. No. 948,958; Feb. 8; Sp. p. 2472; Gaz. vol. 151; p. 420.

Laridon, Louise B., New York, N. Y. Sewing-stand. No. 967,941; Aug. 23; Sp. p. 4454; Gaz. vol. 157; p. 783.

Larimore, John W., Benton, Ill. Rotary engine. No. 978,602; Dec. 13; Sp. p. 2577; Gaz. vol. 161; p. 440.

Lark, Gustave, Rossford, Ohio. Sash-lock. No. 972,769; Oct. 11; Sp. p. 2728; Gaz. vol. 159; p. 464.

Alphabetical list of patentees—Continued.

Larkin, Clifford J., Everett, Mass. Making coats. No. 964,278; July 12; Sp. p. 2719; Gaz. vol. 156; p. 448.
Larkin, Clifford J., Everett, Mass. Riding-breeches. No. 967,023; Aug. 9; Sp. p. 2573; Gaz. vol. 157; p. 422.
Larkin, Oliver M., St. Louis, Mo. Combination-lock. No. 959,234; May 24; Sp. p. 6110; Gaz. vol. 154; p. 1021.
Larkin, William H., Jr. (See Buzzell and Larkin.)
Larkin, William H., Jr., Somerville, Mass., assignor to United Concrete Machinery Company, New York, N. Y. Mixer. No. 971,051; Sept. 27; Sp. p. 4075; Gaz. vol. 158; p. 721.
Larkin, William J., Chicago, Ill. Fireproof window construction. No. 950,233; Feb. 22; Sp. p. 5219; Gaz. vol. 151; p. 915.
Larkin, William J., assignor to Waterbury Clock Co., Waterbury, Conn. Alarm-clock. No. 977,199; Nov. 29; Sp. p. 6910; Gaz. vol. 160; p. 1174.
Larner, Richard. (See Gamble, James H., assignor.)
Larocque, Nacter, Fairview, Mass. Chimney-cap. No. 961,416; June 14; Sp. p. 2406; Gaz. vol. 155; p. 425.
Larocque, Nazaire E., Putnam, Conn. Mechanism for forming finger-notches in box-tops. No. 968,368; Aug. 23; Sp. p. 5393; Gaz. vol. 157; p. 930.
Larouette, Henry P., assignor of one-eighth to A. L. Wood, one-eighth to G. L. Barker, and one-eighth to A. J. Moan, San Jose, Cal. Safety steering attachment. No. 954,979; Apr. 12; Sp. p. 2809; Gaz. vol. 153; p. 476.
Larrabee, William H., assignor to Union Water Meter Company, Worcester, Mass. Water-meter. No. 979,518; Dec. 27; Sp. p. 4523; Gaz. vol. 161; p. 799.
Larrimer, Jesse P. (See Leonard and Larrimer.)
Larry, Edwin C., Harvey, Ill. Adjustable stand for deflecting-bars. No. 962,849; June 28; Sp. p. 5499; Gaz. vol. 155; p. 962.
Larsen, Axel, Perth Amboy, N. J. Hat-pin. No. 974,577; Nov. 1; Sp. p. 1153; Gaz. vol. 160; p. 174.
Larsen-Baker Ice Machine Co. (See Allan, James, assignor.)
Larsen, Bennett, *et al.* (See Dolan, William J., assignor.)
Larsen, Carl M., Christiania, Norway. Sewing-machine. No. 954,443; Apr. 12; Sp. p. 1572; Gaz. vol. 153; p. 289.
Larsen, Gustav G., Stacyville, Iowa. Cable-hanger. No. 976,470; Nov. 22; Sp. p. 5283; Gaz. vol. 160; p. 897.
Larsen, Jacob N., Preston, Idaho, assignor to Western Book and Manufacturing Company, Logan, Utah. Loose-leaf binder. No. 971,202; Sept. 27; Sp. p. 4396; Gaz. vol. 158; p. 771.
Larsen, Lars H. (See Rowland and Larsen.)
Larsen, Louis. (See Smith and Larsen.)
Larsen, Louis, New York, N. Y. Alternating-current electromagnet. No. 954,745; Apr. 12; Sp. p. 2278; Gaz. vol. 153; p. 395.
Larsen, Louis, New York, N. Y. Electric switch. No. 961,242; June 14; Sp. p. 2031; Gaz. vol. 155; p. 366.
Larson, Arvid R. (See Larson and Johnson.)
Larson, August, *et al.* (See Weiner, Jardo, assignor.)
Larson, August A. (See Larson, Gust K. and A. A.)
Larson, Caleb M., Minneapolis, Minn. Saw-set. No. 961,503; June 14; Sp. p. 2608; Gaz. vol. 155; p. 455.
Larson, Charles G., Burlington, Iowa. Try-square. No. 958,257; May 17; Sp. p. 3933; Gaz. vol. 154; p. 662.
Larson, Conrad, Grantsburg, Wis. Mower. No. 948,333; Feb. 8; Sp. p. 1147; Gaz. vol. 151; p. 211.
Larson, David. (See Lindquist and Larson.)
Larson, David, Yonkers, N. Y. Alternating-current elevator apparatus. No. 949,740; Feb. 15; Sp. p. 4076; Gaz. vol. 151; p. 708.
Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current electric elevator. No. 954,035; Apr. 5; Sp. p. 706; Gaz. vol. 153; p. 124.
Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Ash-hoist. No. 979,519; Dec. 27; Sp. p. 4530; Gaz. vol. 161; p. 799.
Larson, Gust K. and A. A., Johnsonburg, Pa. Suction-ventilator. No. 946,941; Jan. 18; Sp. p. 4338; Gaz. vol. 150; p. 713.
Larson, Gustaf A., Worcester, Mass. Clasp. No. 948,398; Feb. 8; Sp. p. 1302; Gaz. vol. 151; p. 234.
Larson, Henry A., *et al.* (See Danielson, August A., assignor.)
Larson, John E. L., and A. Hessel, Chicago, Ill. Combined saw, bevel, and square. No. 948,059; Feb. 1; Sp. p. 588; Gaz. vol. 151; p. 94.
Larson, Lars A., Weir, Kans. Excavating apparatus. No. 976,663; Nov. 22; Sp. p. 5692; Gaz. vol. 160; p. 963.
Larson, Louis O. and A. R., and S. Johnson, El Campo, Tex. Traction-wheel. No. 964,279; July 12; Sp. p. 2721; Gaz. vol. 156; p. 449.
Larson, Magnus W., Albert Lea, Minn. Dish-washer. No. 959,562; May 31; Sp. p. 6799; Gaz. vol. 154; p. 1157.
Larson, Ole L., Minneapolis, Minn. Seed-corn sorter. No. 945,174; Jan. 4; Sp. p. 341; Gaz. vol. 150; p. 58.
Larson, Richard L., Minneapolis, Minn. Stopper and dropper. No. 969,291; Sept. 6; Sp. p. 296; Gaz. vol. 158; p. 48.
Larson, Samuel, Hinsdale, Ill. Harrow and digger. No. 965,200; July 26; Sp. p. 4746; Gaz. vol. 156; p. 821.
Larson, Victor, Trimountain, Mich. Bread-slicer. No. 963,300; July 5; Sp. p. 680; Gaz. vol. 156; p. 96.
Larsson, Alfred, Stockholm, Sweden, assignor to L. M. Ericsson Telephone Manufacturing Company, Buffalo, N. Y. Switchboard jack and plug. No. 950,107; Feb. 22; Sp. p. 4946; Gaz. vol. 151; p. 870.
Larsson, Thure, assignor to himself, F. A. Jones, Worcester, Mass., and W. E. D. Stokes, New York, N. Y. Plunger hydraulic elevator. No. 963,905; July 12; Sp. p. 1955; Gaz. vol. 156; p. 321.
Larsson, Thure, Worcester, Mass., assignor to himself, W. E. D. Stokes, New York, N. Y., and F. A. Jones, Worcester, Mass. Flow-regulator. No. 963,906; July 12; Sp. p. 1959; Gaz. vol. 156; p. 322.
Larsson, Thure, Worcester, Mass., assignor to himself, W. E. D. Stokes, New York, N. Y., and F. A. Jones, Worcester, Mass. Plunger-elevator system. No. 975,540; Nov. 15; Sp. p. 3270; Gaz. vol. 160; p. 555.
Larsson, Thure, and A. C. Smith, Worcester, Mass., assignors to said Larsson, W. E. D. Stokes, New York, N. Y., and F. A. Jones, Worcester, Mass. Plunger-guide for direct-plunger elevators. No. 952,044; Mar. 15; Sp. p. 3218; Gaz. vol. 152; p. 579.
Larzelere, Charles B., Schenectady, N. Y., assignor to General Electric Company. Electromagnet-coil. No. 963,907; July 12; Sp. p. 1961; Gaz. vol. 156; p. 322.
Larzelere, Herman G., New York, N. Y. Metallic mold. No. 946,233; Jan. 11; Sp. p. 2690; Gaz. vol. 150; p. 447.
Lasby, Edwin W., St. Louis, Mo. Food compound. No. 977,746; Dec. 6; Sp. p. 719; Gaz. vol. 161; p. 113.
Lasche, Alfred J. M. (See Schroeder, Levi, and Lasche.)
Lasché, Alfred J. M., Milwaukee, Wis. Mashing process. No. 977,200; Nov. 29; Sp. p. 6911; Gaz. vol. 160; p. 1174.
Lash, Horace W., Cleveland, Ohio. Making steel. No. 978,905; Dec. 20; Sp. p. 3183; Gaz. vol. 161; p. 565.
Lash, Horace W., Cleveland, Ohio. Treating cast-iron waste. No. 978,906; Dec. 20; Sp. p. 3184; Gaz. vol. 161; p. 566.
Laska, August L., Offenbach-on-the-Main, assignor to Corporation Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Bluish-red disazo dye. No. 964,918; July 19; Sp. p. 4188; Gaz. vol. 156; p. 698.
Laska, August L., Offenbach-on-the-Main, assignor to Corporation Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Brown mordant azo dye. No. 964,919; July 19; Sp. p. 4189; Gaz. vol. 156; p. 698.
Laska, August L., Offenbach-on-the-Main, assignor to Corporation Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Disazo dye. No. 964,920; July 19; Sp. p. 4190; Gaz. vol. 156; p. 699.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Yellow disazo dystuff for wool. No. 971,761; Oct. 4; Sp. p. 529; Gaz. vol. 159; p. 92.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Yellow azo dyestuff for wool. No. 971,762; Oct. 4; Sp. p. 531; Gaz. vol. 159; p. 93.
Laskey, Walden L., Brooklyn, assignor to American Can Company, New York, N. Y. Sheet-metal display-can. No. 978,041; Dec. 6; Sp. p. 1334; Gaz. vol. 161; p. 214.
Laskowski, William F., Jr. (See Alexander, Frederick, assignor.)
Laslo, Frank P., Hooversville, Pa. Protector and shield for caps. No. 954,193; Apr. 5; Sp. p. 1052; Gaz. vol. 153; p. 178.
Lasrich, Robert, New York, N. Y. Bellows-actuating mechanism. No. 956,982; May 3; Sp. p. 1057; Gaz. vol. 154; p. 165.
Lassen, Karl C., Schmargendorf, near Berlin, assignor to Berliner Elektromobil-Fabrik G. M. B. H., Charlottenburg, Germany. Driving means for motor-vehicles. No. 949,828; Feb. 22; Sp. p. 4287; Gaz. vol. 151; p. 773.
Lassiter, Columbus K., Richmond, Va. Metal-cutting tool. No. 965.587; July 26; Sp. p. 5610; Gaz. vol. 156; p. 955.
Lässoe, Valdemar F., Brooklyn, N. Y. Oil-burner. No. 957,614; May 10; Sp. p. 2357; Gaz. vol. 154; p. 410.
Laster, G. W., *et al.* (See Tucker, Bedford, assignor.)
Laster, J. T., *et al.* (See Tucker, Bedford, assignor.)
Latcham, Richard, assignor of one-half to A. E. Sweet, Scranton, Pa. Antifriction shaper-collar. No. 947,079; Jan. 18; Sp. p. 4594; Gaz. vol. 150; p. 758.
Latcher, John W., Edinburg, N. Y. Casting apparatus. No. 950,637; Mar. 1; Sp. p. 371; Gaz. vol. 152; p. 60.
Latcher, John W., Edinburg, assignor of one-half to S. D. Latcher, Utica, N. Y. Looping device for knitting-machines. No. 949,376; Feb. 15; Sp. p. 3361; Gaz. vol. 151; p. 588.
Latcher, Seymour D. (See Latcher, John W., assignor.)
Latham, Albert, Beverly, assignor of one-half to J. W. Nourbourne, Somerville, Mass. Combined frictional and positively locking clutch. No. 957,851; May 10; Sp. p. 2857; Gaz. vol. 154; p. 489.
Latham Machinery Company. (See Weber, Henry, assignor.)
Lathrop, Frank K., assignor to The Ohio Rake Company, Dayton, Ohio. Side-delivery hay-rake. No. 974,893; Nov. 8; Sp. p. 1837; Gaz. vol. 160; p. 306.
Lathrop, Frank L., assignor to H. L. Judd Company, Wallingford, Conn. Ball-bearing for traverse-rings and the like. No. 946,550; Jan. 18; Sp. p. 3463; Gaz. vol. 150; p. 582.

Alphabetical list of patentees—Continued.

Lathrop, Frank L., assignor to H. L. Judd Company, Wallingford, Conn. Connection for curtain-rods and the like. No. 972,544; Oct. 11; Sp. p. 2241; Gaz. vol. 159; p. 387.

Lathrop, Frank L., assignor to H. L. Judd Company, Wallingford, Conn. Curtain-rod connection. No. 974,398; Nov. 1; Sp. p. 716; Gaz. vol. 160; p. 108.

Latil, Julius A. J., Baton Rouge, La. Crude-oil burner. No. 960,563; June 7; Sp. p. 667; Gaz. vol. 155; p. 109.

Latimer, Herbert G. (See McDowell, George, assignor.)

Latimer, James B., and A. D. Cloud, Chicago, Ill.; said Cloud assignor, by mesne assignments, to W. K. Kenly Company. Rail-holding device. No. 972,545; Oct. 11; Sp. p. 2243; Gaz. vol. 159; p. 387.

Latimer, Lewis H. (See Norton, William S., assignor.)

Latimer, William G., assignor to Rapid Addressing Platen Company, Detroit, Mich. Auxiliary ribbon for typewriters. No. 956,112; Apr. 26; Sp. p. 5247; Gaz. vol. 153; p. 923.

Lations, Charles A., assignor of one-half to American Narrow Fabric Company, Worcester, Mass. Suspender. No. 970,511; Sept. 20; Sp. p. 2916; Gaz. vol. 158; p. 509.

Latta, Emmit G., *et al.* (See Kavle, Oscar C., assignor.)

Latta, Emmit G., and M. E. Herrmann, assignors to said Latta and H. A. Moyer, Syracuse, N. Y. Type-bar bearing for type-writing machines. No. 977,201; Nov. 29; Sp. p. 6913; Gaz. vol. 160; p. 1174.

Latta, George W., Corbyville, Ontario, Canada. Hay-cocking machine. No. 964,280; July 12; Sp. p. 2723; Gaz. vol. 156; p. 449.

Latta, John L., Hickory, N. C. Valve mechanism for water-elevators. No. 947,827; Feb. 1; Sp. p. 80; Gaz. vol. 151; p. 17.

Latta, Milton, Valentine, Nebr. Well-digging apparatus. No. 955,813; Apr. 19; Sp. p. 4570; Gaz. vol. 153; p. 789.

Latta, William J. (See Kitsee, Isidor, assignor.)

Lattier, George F., Baltimore, Md. Device for reproducing an object on a scale. No. 961,359; June 14; Sp. p. 2308; Gaz. vol. 155; p. 408.

Lattimore, Lewis M., Shubert, Nebr. Wagon-seat fastener. No. 959,361; May 24; Sp. p. 6357; Gaz. vol. 154; p. 1063.

Lattin, Albert N. (See Broughton and Lattin.)

Latty, Henry T. (See Latty, Samuel D. and H. T.)

Latty, Samuel D. and H. T., Cleveland, Ohio. Bolt-heading machine. No. 948,060; Feb. 1; Sp. p. 591; Gaz. vol. 151; p. 95.

Latulip, Fred, assignor of one-half to A. F. Vadeboncoeur, Syracuse, N. Y. Machine for molding concrete shingles. No. 970,243; Sept. 13; Sp. p. 2366; Gaz. vol. 158; p. 399.

Lau, John H., Harrisburg, Pa. Wheel. No. 951,687; Mar. 8; Sp. p. 2477; Gaz. vol. 152; p. 429.

Laub, George M. (See Pignone, Emauel, assignor.)

Laube, Godfried, assignor to H. R. Laube and G. N. Bartlett, Santa Monica, Cal. Plate-lifter. No. 951,783; Mar. 8; Sp. p. 2683; Gaz. vol. 152; p. 463.

Laube, Godfried and H. R., Santa Monica; said Godfried Laube assignor to G. N. Bartlett, Los Angeles, Cal. Fly-trap. No. 948,863; Feb. 8; Sp. p. 2285; Gaz. vol. 151; p. 389.

Laube, Godfried and H. R., Santa Monica; said Godfried Laube assignor to G. N. Bartlett, Los Angeles, Cal. Paper-holder. No. 968,959; Aug. 30; Sp. p. 6648; Gaz. vol. 157; p. 1158.

Laube, Hattie R. (See Laube, Godfried and H. R.)

Laube, Hattie R., *et al.* (See Laube, Godfried, assignor.)

Laubenstein, Albert R., Ashland, Pa. Conveyer-link. No. 976,664; Nov. 22; Sp. p. 5694; Gaz. vol. 160; p. 963.

Lauber, Simon C., Toledo, Ohio. Carrying-register. No. 972,546; Oct. 11; Sp. p. 2247; Gaz. vol. 159; p. 388.

Laubeuf, Maxime A., Paris, France. Device for raising submarine vessels. No. 955,414; Apr. 19; Sp. p. 3714; Gaz. vol. 153; p. 653.

Laubscher, August, assignor to United States Envelope Company, Springfield, Mass. Gum-roll governor for envelop-machines. No. 962,153; June 21; Sp. p. 4020; Gaz. vol. 155; p. 698.

Laudahn, William, Pasadena, Cal. Concrete railway-rail support. No. 950,930; Mar. 1; Sp. p. 978; Gaz. vol. 152; p. 157.

Lauder & Patterson. (See Patterson, Harold D., assignor.)

Laudon, William, Greenville, Wis. Rein-guide. No. 948,453; Feb. 8; Sp. p. 1410; Gaz. vol. 151; p. 252.

Lauermann, Franciscus J., Jamestown, N. D. Sweat-band. No. 968,369; Aug. 23; Sp. p. 5396; Gaz. vol. 157; p. 931.

Laughinghouse, Samuel V., Grifton, N. C. Ventilating apparatus. No. 963,590; July 5; Sp. p. 1265; Gaz. vol. 156; p. 194.

Laughlin, Alexander. (See Reuleaux, Josef, assignor.)

Laughlin, Edward R., deceased, Ardmore, Pa.; M. W. Laughlin, executrix. Safety apparatus for volatile ignitible liquids. No. 978,459; Dec. 13; Sp. p. 2246; Gaz. vol. 161; p. 389.

Laughlin, Elmyr A., Chicago, Ill. Pneumatic cleaner. No. 955,886; Apr. 26; Sp. p. 4772; Gaz. vol. 153; p. 844.

Laughlin, Elmyr A., Chicago, Ill. Pneumatic cleaner. No. 960,564; June 7; Sp. p. 668; Gaz. vol. 155; p. 110.

Laughlin, Henry D. (See Huntoon, Charles F., assignor.)

Laughlin, Homer, Jr. (See Schuyler and Laughlin.)

Laughlin, Homer, Jr., Los Angeles, Cal., and D. Schuyler, Bridgeport, Conn., assignors to The Perfect Sliding Door Company, Los Angeles, Cal. Hanger-arm. No. 955,599; Apr. 19; Sp. p. 4118; Gaz. vol. 153; p. 716.

Laughlin, Homer, Jr., Los Angeles, Cal., and D. Schuyler, Bridgeport, Conn., assignors to The Perfect Sliding Door Company, Los Angeles, Cal. Air-check for sliding doors. No. 969,641; Sept. 6; Sp. p. 1042; Gaz. vol. 158; p. 167.

Laughlin, James T., Boise, Idaho. Eyeglass-mounting. No. 957,071; May 3; Sp. p. 1230; Gaz. vol. 154; p. 195.

Laughlin, John L., Irwin, Pa. Churn. No. 958,656; May 17; Sp. p. 4862; Gaz. vol. 154; p. 798.

Laughlin, May W., executrix. (See Laughlin, Edward R.)

Laughlin, Simon S., Colwich, Kans. Air-heating system. No. 964,921; July 19; Sp. p. 4192; Gaz. vol. 156; p. 699.

Laughter, Victor H., Detroit, Mich. Transmitting system for space telephony. No. 957,852; May 10; Sp. p. 2859; Gaz. vol. 154; p. 489.

Laughton, George W., Weehawken, N. J. Mold for baffle-wall construction for boilers. No. 974,894; Nov. 8; Sp. p. 1839; Gaz. vol. 160; p. 306.

Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curtain-pole bracket. No. 953,912; Apr. 5; Sp. p. 452; Gaz. vol. 153; p. 82.

Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Bracket. No. 956,983; May 3; Sp. p. 1058; Gaz. vol. 154; p. 166.

Laun, Justus, Chicago, Ill. Blade or paddle for mortar-mixers. No. 967,646; Aug. 16; Sp. p. 3852; Gaz. vol. 157; p. 661.

Launder, Alvia, Chicago, Ill. Guard for Gordon printing-presses. No. 978,042; Dec. 6; Sp. p. 1337; Gaz. vol. 161; p. 214.

Lauphear, Elmer E., Bloomington, Ill. Ventilating and flushing apparatus for closets. No. 955,518; Apr. 19; Sp. p. 3930; Gaz. vol. 153; p. 689.

Laurent, Henry. (See Molinari and Laurent.)

Laurent, Leon B., and G. F. Donahoe, Johnstown, N. Y. Cop-spindle. No. 948,454; Feb. 8; Sp. p. 1411; Gaz. vol. 151; p. 252.

Laurent, Thomas H., Nutley, N. J. Concrete post for clothes-lines. No. 971,904; Oct. 4; Sp. p. 844; Gaz. vol. 159; p. 145.

Laurian, George D., assignor to Gibson Mandolin-Guitar Company, Kalamazoo, Mich. Stringed musical instrument. No. 964,660; July 19; Sp. p. 3555; Gaz. vol. 156; p. 608.

Laurian, George D., assignor to Gibson Mandolin-Guitar Company, Kalamazoo, Mich. Tailpiece for stringed musical instruments. No. 970,626; Sept. 20, Sp. p. 3195; Gaz. vol. 158; p. 549.

Laurie, William M., *et al.* (See Tullock, William, assignor.)

Laurila, Hjalmar, Worcester, Mass. Mattress. No. 957,892; May 17; Sp. p. 2957; Gaz. vol. 154; p. 534.

Laurin, Uno H., Cleveland, Ohio. Tire-heater. No. 964,795; July 19; Sp. p. 3940; Gaz. vol. 156; p. 654.

Laus, Joseph, Jr., Oshkosh, Wis. Door and damper operator. No. 954,309; Apr. 5; Sp. p. 1308; Gaz. vol. 153; p. 216.

Lausterer, William J. (See Gillespie and Lausterer.)

Lausterer, William J. (See Lomb and Lausterer.)

Lausterer, William J., Jamestown, assignor to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Cumulative-voting interlock for voting-machines. No. 945,175; Jan. 4; Sp. p. 343; Gaz. vol. 150; p. 58.

Lausterer, William J., Jamestown, assignor to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Indorsing device for voting-machines. No. 950,156; Feb. 22; Sp. p. 5043; Gaz. vol. 151; p. 887.

Laut, George. (See Miller, George B., assignor.)

Laut, Philip, New York, N. Y. Rotary blower. No. 950,856; Mar. 1; Sp. p. 840; Gaz. vol. 152; p. 134.

Lautenschlager, William F., Cincinnati, Ohio. Sewing-machine. No. 959,948; May 31; Sp. p. 7630; Gaz. vol. 154; p. 1287.

Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Denver, Colo. Cement-applying machine. No. 966,453; Aug. 9; Sp. p. 1283; Gaz. vol. 157; p. 231.

Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Denver, Colo. Cement-applier. No. 969,168; Sept. 6; Sp. p. 39; Gaz. vol. 158; p. 9.

Lauterbach, Jacob S., New York, N. Y. Box. No. 956,859; May 3; Sp. p. 785; Gaz. vol. 154; p. 124.

Lauterbach, Max, Omaha, Nebr. Horse-collar. No. 978,907; Dec. 20; Sp. p. 3185; Gaz. vol. 161; p. 566.

Lauterbur, Frank X., Sidney, Ohio. Automatic tongue. No. 970,244; Sept. 13; Sp. p. 2369; Gaz. vol. 158; p. 399.

Lautzenhiser, Lewis G., and C. P. Chandler, assignors of one-half to D. A. Slemmer and S. C. Ward, and said Chandler assignor of one-twentieth to W. K. Reese, Jr., Los Angeles, Cal. Apparatus for purification of sewage and other waters. No. 966,025; Aug. 2; Sp. p. 391; Gaz. vol. 157; p. 62.

Laux, John H., assignor to American Furnace Company, St. Louis, Mo. Furnace. No. 965,914; Aug. 2; Sp. p. 140; Gaz. vol. 157; p. 24.

Laux, Julius, Flatonia, Tex. Post-anchor. No. 955,086; Apr. 12; Sp. p. 3004; Gaz. vol. 153; p. 509.

Alphabetical list of patentees—Continued.

Laux, Michael, Pittsburg, Pa. Junction-box. No. 970,377; Sept. 13; Sp. p. 2628; Gaz. vol. 158; p. 443.
Lauzon, Calvin A., Grand Rapids, Mich. Box-cover fastener. No. 961,780; June 21; Sp. p. 3180; Gaz. vol. 155; p. 571.
Lavercombe, Frederick A., Newport, Ky. Electric-lamp socket. No. 949,985; Feb. 22; Sp. p. 4689; Gaz. vol. 151; p. 829.
Laverty, Francis E., Worcester, Mass. Ice-harvester. No. 961,781; June 21; Sp. p. 3181; Gaz. vol. 155; p. 572.
Lavery, John, Waubra, Victoria, Australia. Disk plow and cultivator. No. 960,966; June 7; Sp. p. 1450; Gaz. vol. 155; p. 244.
Laverty, John, and H. S. Williams, Columbia, S. C. Carstep. No. 958,657; May 17; Sp. p. 4863; Gaz. vol. 154; p. 798.
Lavigne, Joseph P., Detroit, Mich. Valve. No. 945,556; Jan. 4; Sp. p. 1192; Gaz. vol. 150; p. 184.
Lavigne, Joseph P., Detroit, Mich. Automatic die-head. No. 966,105; Aug. 2; Sp. p. 557; Gaz. vol. 157; p. 90.
Lavin, James F., and V. V. Stevens, Dubuque, Iowa. Spark-arrester. No. 950,048; Feb. 22; Sp. p. 4840; Gaz. vol. 151; p. 851.
Laviolette, Joseph V., assignor to Industriëele Maatschappij Trompenburg, Amsterdam, Netherlands. Internal-combustion engine. No. 977,885; Dec. 6; Sp. p. 1009; Gaz. vol. 161; p. 159.
Lavis, William K., La Grange, Ill. Car-roof. No. 954,194; Apr. 5; Sp. p. 1054; Gaz. vol. 153; p. 178.
Lavis, William K., La Grange, Ill. Grain-door for freight-cars. No. 971,621; Oct. 4; Sp. p. 242; Gaz. vol. 159; p. 43.
Lavoie, Eugene E. (See Russell and Lavoie.)
Lavoix, Antoine, Paris, assignor to Société Française de Constructions Mécaniques (Anciens Etablissements Cail), Denain, France. Motor worked by explosive mixture. No. 964,030; July 12; Sp. p. 2215; Gaz. vol. 156; p. 365.
Law, Alexander H. (See Parsons and Law.)
Law, George P., Lansing, Mich. Gas-engine. No. 972,547; Oct. 11; Sp. p. 2251; Gaz. vol. 159; p. 388.
Law, James D., Philadelphia, Pa. Clock. No. 975,877; Nov. 15; Sp. p. 3961; Gaz. vol. 160; p. 668.
Law, Robert, Toledo, Ohio. Tie-plate. No. 949,907; Feb. 22; Sp. p. 4487; Gaz. vol. 151; p. 801.
Law, Robert, Toledo, Ohio. Rail-locking cam and brace for tie-plates. No. 949,908; Feb. 22; Sp. p. 4488; Gaz. vol. 151; p. 801.
Law, Samuel H., Sr., Brooklyn, N. Y. Top. No. 952,913; Mar. 22; Sp. p. 5016; Gaz. vol. 152; p. 901.
Law, William A., St. Paul, Minn. Overhead carrier. No. 945,176; Jan. 4; Sp. p. 348; Gaz. vol. 150; p. 59.
Law, William A., St. Paul, Minn. Gate. No. 960,351; June 7; Sp. p. 233; Gaz. vol. 155; p. 39.
Law, William H., Brooklyn, N. Y. Metallic packing. No. 954,195; Apr. 5; Sp. p. 1056; Gaz. vol. 153; p. 179.
Lawhorn, William B. (See Parman, John H., assignor.)
Lawler, James J., Mount Vernon, N. Y. Mixing-valve. No. 956,860; May 3; Sp. p. 787; Gaz. vol. 154; p. 125.
Lawler, James J., Mount Vernon, N. Y. Bath-spray. No. 969,292; Sept. 6; Sp. p. 297; Gaz. vol. 158; p. 49.
Lawler, James J., Pelham Heights, N. Y. Radiator. No. 977,202; Nov. 29; Sp. p. 6916; Gaz. vol. 160; p. 1175.
Lawler, James J., Pelham Heights, N. Y. Vault-light. No. 979,772; Dec. 27; Sp. p. 5089; Gaz. vol. 161; p. 886.
Lawler, John, assignor of one-half to F. G. Benjamine, Clinton, Iowa. Lamp-casing. No. 960,179; May 31; Sp. p. 8124; Gaz. vol. 154; p. 1366.
Lawler, Patrick J. (See Kerigan and Lawler.)
Lawlor, James A., Prince Albert, Saskatchewan, Canada. Clay-screen. No. 973,441; Oct. 18; Sp. p. 4244; Gaz. vol. 159; p. 723.
Lawlor, John J. (See Heyl and Lawlor.)
Lawlor, Michael W., Needham Heights, Mass. Running-shoe. No. 955,337; Apr. 19; Sp. p. 3551; Gaz. vol. 153; p. 628.
Lawrence, Albert, Los Angeles, Cal. Rail-joint. No. 947,108; Jan. 18; Sp. p. 4653; Gaz. vol. 150; p. 768.
Lawrence, Albert L., *et al.* (See Dinger, Paul, assignor.) (Reissue.)
Lawrence, Albert L., *et al.* (See Gough, Jacob C., assignor.)
Lawrence, Alfred, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Mortise-lock. No. 950,108; Feb. 22; Sp. p. 4947; Gaz. vol. 151; p. 871.
Lawrence, Alfred, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 963,591; July 5; Sp. p. 1265; Gaz. vol. 156; p. 194.
Lawrence, Daniel F., Brandon, Vt. Motor. No. 971,854; Oct. 4; Sp. p. 727; Gaz. vol. 159; p. 127.
Lawrence, David E., Central, S. C. Combined planter and fertilizer-distributer. No. 977,886; Dec. 6; Sp. p. 1011; Gaz. vol. 161; p. 160.
Lawrence, E. G. (See Mills, Arthur C., assignor.)
Lawrence, Felix P., St. Louis, Mo. Waterproof concrete construction. No. 954,814; Apr. 12; Sp. p. 2444; Gaz. vol. 153; p. 418.
Lawrence, George, Melrose Park, Ill. Signaling device. No. 965,201; July 26; Sp. p. 4751; Gaz. vol. 156; p. 822.
Lawrence, George E. (See Washburn and Lawrence.)
Lawrence, George F., assignor of three-fifths to J. Chapman, London, England. Knife-polishing machine. No. 976,189; Nov. 22; Sp. p. 4633; Gaz. vol. 160; p. 798.
Lawrence, George H., Middletown, N. Y. Sash and sash-mounting. No. 953,210; Mar. 29; Sp. p. 5660; Gaz. vol. 152; p. 1028.
Lawrence, George R. (See Loew, Lawrence, and Brunner.)
Lawrence, Harry O., St. Louis, Mo., assignor of two-thirds to J. S. P. Gordon, East St. Louis, Ill., and one-third to T. P. Carroll, St. Louis, Mo. Valve-gear. No. 951,536; Mar. 8; Sp. p. 2185; Gaz. vol. 152; p. 379.
Lawrence, Harry W., Denver, Colo. Electric-lamp-holding socket. No. 964,281; July 12; Sp. p. 2727; Gaz. vol. 156; p. 449.
Lawrence, Harry W., Denver, Colo. Combined box and socket for electric lamps. No. 966,026; Aug. 2; Sp. p. 394; Gaz. vol. 157; p. 63.
Lawrence, Harry W., Denver, Colo. Fixture for adjustable electric drop-lights. No. 971,203; Sept. 27; Sp. p 4399; Gaz. vol. 158; p. 772.
Lawrence, Harry W., Denver, Colo., assignor to The New England Electric Co. Lamp-receptacle. (Reissue.) No. 13,157; Oct. 11; Sp. p. 2775; Gaz. vol. 159; p. 473.
Lawrence, John H., Sterling, Ill. Hasp. No. 967,942; Aug. 23; Sp. p. 4455; Gaz. vol. 157; p. 784.
Lawrence, Luther C., Newcastle, Ind. Wrench. No. 957,778; May 10; Sp. p. 2717; Gaz. vol. 154; p. 465.
Lawrence, Orrin F., Canton, Ohio. Furnace-regulator. No. 954,036; Apr. 5; Sp. p. 712; Gaz. vol. 153; p. 125.
Lawrence, Theodore M., assignor of forty-nine one-hundredths to G. H. McDannel, Seattle, Wash. Artificial limb. No. 975,439; Nov. 15; Sp. p. 3040; Gaz. vol. 160; p. 519.
Lawrence, Vincent. (See Danbeck and Lawrence.)
Lawrenz, William F., assignor to J. A. Carr, St. Louis, Mo. Dental casting-machine. No. 971,855; Oct. 4; Sp. p. 729; Gaz. vol. 159; p. 127.
Lawrey, Willis A., Dudley, Idaho. Drag-saw. No. 947,182; Jan. 18; Sp. p. 4795; Gaz. vol. 150; p. 790.
Lawrie, Alexander, Pumpville, Tex. Felly-joint bridge. No. 974,399; Nov. 1; Sp. p. 717; Gaz. vol. 160; p. 109.
Lawson, Aaron, *et al.* (See Emmerson, John F., assignor.)
Lawson, Alexander, East Barre, and R. S. and B. Wildbur, Websterville, Vt. Automatic rocking-chair fan. No. 960,967; June 7; Sp. p. 1452; Gaz. vol. 155; p. 244.
Lawson, August, assignor to M. L. Oberg and E. A. Lawson, Jamestown, N. Y. Lock. No. 958,880; May 24; Sp. p. 5385; Gaz. vol. 154; p. 903.
Lawson, Charles and R. W., Boston, Mass. Gas-meter. No. 970,627; Sept. 20; Sp. p. 3197; Gaz. vol. 158; p. 550
Lawson, Ernest A., *et al.* (See Lawson, August, assignor.)
Lawson, Harry C., McGregor, Tex. Ratchet-wrench. No. 972,627; Oct. 11; Sp. p. 2445; Gaz. vol. 159; p. 416.
Lawson, John, Copper Cliff, Ontario, Canada, assignor to International Nickel Company, New York, N. Y. Furnace-cooling jacket. No. 951,647; Mar. 8; Sp. p. 2401; Gaz. vol. 152; p. 416.
Lawson, John, Copper Cliff, Ontario, Canada, assignor to International Nickel Company, New York, N. Y. Apparatus for forming castings about pipes. No. 952,821; Mar. 22; Sp. p. 4840; Gaz. vol. 152; p. 871.
Lawson, Robert W. (See Lawson, Charles and R. W.)
Lawson, William C., Roanoke, Va. Elevated railway. No. 949,020; Feb. 15; Sp. p. 2625; Gaz. vol. 151; p. 469.
Lawson, William C., Roanoke, Va. Aerial tramway. No. 974,284; Nov. 1; Sp. p. 465; Gaz. vol. 160; p. 68.
Lawson, William R., and J. Howe, Harriman, Tenn. Railway-lantern. No. 951,422; Mar. 8; Sp. p. 1957; Gaz. vol. 152; p. 340.
Lawton, Burton L. (See Wilcox and Lawton.)
Lawton, Burton L., assignor to The Connecticut Telephone & Electric Company, Meriden, Conn. Vibrator for induction-coils. No. 958,509; May 17; Sp. p. 4578; Gaz. vol. 154; p. 751.
Lawver, Dwight A., and C. C. Bradbury, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Testing system for party-lines. No. 978,603; Dec. 13; Sp. p. 2579; Gaz. vol. 161; p. 440.
Lawyer, James P. (See Lawyer, William M. and J. P.)
Lawyer, William M. and J. P., Guernsey, Ohio. Crib structure. No. 962,767; June 28; Sp. p. 5343; Gaz. vol. 155; p. 934.
Lay, Samuel C., Ridgeville, Ind. Metal-case broom. No. 946,234; Jan. 11; Sp. p. 2693; Gaz. vol. 150; p. 448.
Lay, Samuel C., Ridgeville, Ind. Broom-nailing machine. No. 965,588; July 26; Sp. p. 5611; Gaz. vol. 156; p. 955.
Layden, John J. (See Marble, James E., assignor.)
Layman, Clifford E., Keene, Ohio. Twine-holder. No 957,568; May 10; Sp. p. 2280; Gaz. vol. 154; p. 395.
Layman, Waldo A., Webster Groves, Mo. Alternating-current motor. No. 952,532; Mar. 22; Sp. p. 4196; Gaz. vol. 152; p. 770.
Layman, William, *et al.* (See Bulley, Albert, assignor.)
Layne, Mahon E. (See Johnson, John N., assignor.)
Layne, Mahlon E., Houston, Tex. Well mechanism. No. 957,974; May 17; Sp. p. 3201; Gaz. vol. 154; p. 564.
Layng, Henry G., New York, N. Y. Apparatus for utilizing the waste heat of kilns. No. 951,191; Mar. 8; Sp. p. 1467; Gaz. vol. 152; p. 266.

Alphabetical list of patentees—Continued.

Layton, Thomas E., assignor to National Blank Book Company, Holyoke, Mass. Book-back. No. 945,333; Jan. 4; Sp. p. 720; Gaz. vol. 150; p. 110.

Layton, Thomas E., assignor to National Blank Book Company, Holyoke, Mass. Making scrap-books and the like. No. 960,352; June 7; Sp. p. 234; Gaz. vol. 155; p. 40.

Lázár, Stephen. (See Kelemen and Lázár.)

Lazarus, John, Wilkes-Barre, Pa. Measuring device. No. 955,519; Apr. 19; Sp. p. 3933; Gaz. vol. 153; p. 690.

Lazarus, Joseph, Boston, Mass. Horseshoe. No. 964,438; July 12; Sp. p. 3026; Gaz. vol. 156; p. 499.

Lazell, Bessie, New York, N. Y. Bust and abdominal supporter. No. 977,455; Dec. 6; Sp. p. 57; Gaz. vol. 161; p. 12.

Le Baron, John F., assignor of one-half to C. S. Estes, Ridgway, Pa. Counterbore. No. 967,789; Aug. 16; Sp. p. 4141; Gaz. vol. 157; p. 709.

Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 953,148; Mar. 29; Sp. p. 5532; Gaz. vol. 152; p. 1009.

Le Blanc, Audrecie, Centerville, La. Nut-lock. No. 971,451; Sept. 27; Sp. p. 4862; Gaz. vol. 158; p. 852.

Le Blanc, William T., New York, N. Y. Braiding-machine. No. 958,512; May 17; Sp. p. 4584; Gaz. vol. 154; p. 753.

Le Blond, Richard K., and W. F. Groene, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Milling-machine. No. 956,643; May 3; Sp. p. 293; Gaz. vol. 154; p. 48.

Le Compte, Edward P., *et al.* (See Redden and Cunningham, assignors.)

Le Doux, Hector, and E. H. Ryon, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Shuttle. No. 955,119; Apr. 12; Sp. p. 3062; Gaz. vol. 153; p. 519.

Le Faguays, Fernand, Nantes, France. Disinfecting device. No. 958,259; May 17; Sp. p. 3936; Gaz. vol. 154; p. 662.

Le Fevre, George H. (See Marsh, John H., assignor.)

Le Fevre, Nevin B., London, England. Portable electric massaging and like apparatus. No. 951,821; Mar. 15; Sp. p. 2763; Gaz. vol. 152; p. 505.

Le Gallais, William C., *et al.* (See McLeroy, Joseph S., assignor.)

Le Gore, Earl P., Philadelphia, Pa. Wagon-body-dumping mechanism. No. 973,055; Oct. 18; Sp. p. 3409; Gaz. vol. 159; p. 590.

Le Grand, Augustus L., West Pittston, Pa. Safety attachment for hoisting-engines. No. 946,236; Jan. 11; Sp. p. 2696; Gaz. vol. 150; p. 448.

Le Manquais, Ernest R., Bellemead, N. J. Universal cut-out and switch-block holder. No. 974,681; Nov. 1; Sp. p. 1364; Gaz. vol. 160; p. 212.

Le Manquais, Ernest R., Economy, Pa. Outlet-box. No. 977,643; Dec. 6; Sp. p. 512; Gaz. vol. 161; p. 77.

Le Massena, Andrew, Glen Ridge, N. J. Thread-cutter. No. 966,931; Aug. 9; Sp. p. 2377; Gaz. vol. 157; p. 390.

Le Moon, Axel R., Chicago, Ill., assignor to Le Moon Driving Clutch Company. Friction driving-clutch. (Reissue.) No. 13,161; Oct. 25; Sp. p. 5624; Gaz. vol. 159; p. 977.

Le Moon Driving Clutch Company. (See Le Moon, Axel R., assignor.) (Reissue.)

Le Page, Ethel M. (See Le Page, William N., assignor.)

Le Page, William N., assignor to E. M. Le Page, Vancouver, British Columbia, Canada. Air-heater. No. 959,362; May 24; Sp. p. 6358; Gaz. vol. 154; p. 1063.

Le Rossignol, Robert. (See Haber and Le Rossignol.)

Le Roy, Harry, *et al.* (See Turner, Charles F., assignor.)

Le Roy, Lucy A., Oklahoma, Okla. Washboiler. No. 977,644; Dec. 6; Sp. p. 513; Gaz. vol. 161; p. 77.

Le Sueur, John E., Nashville, Tenn. Molding device. No. 952,265; Mar. 15; Sp. p. 3631; Gaz. vol. 152; p. 652.

Le Witt, Abraham, Hartford, Conn. Surgical-clip applier. No. 948,456; Feb. 8; Sp. p. 1415; Gaz. vol. 151; p. 253.

Lea, Harry C. (See Voegtle, Lea, and Voegtle.)

Lea, Henry I., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Gas-purifier. No. 968,370; Aug. 23; Sp. p. 5397; Gaz. vol. 157; p. 931.

Lea, Henry I., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Gas-producer regulating-valve. No. 969,884; Sept. 13; Sp. p. 1604; Gaz. vol. 158; p. 276.

Lea, James E., Manchester, England. Measuring and recording the flow of liquids. No. 965,915; Aug. 2; Sp. p. 142; Gaz. vol. 157; p. 24.

Lea Quee, George B., Mount Iron, Minn. Apparatus for locating sunken vessels. No. 957,222; May 10; Sp. p. 1570; Gaz. vol. 154; p. 277.

Lea, Thomas, New Brunswick, N. J. Shock-absorber for vehicles. No. 958,510; May 17; Sp. p. 4580; Gaz. vol. 154; p. 752.

Leach, Alice F., Andover, Mass. Game. No. 958,258; May 17; Sp. p. 3934; Gaz. vol. 154; p. 662.

Leach, John N., Melrose, assignor to Judson L. Thomson Manufacturing Company, Waltham, Mass. Hydrocarbon-burner for automobiles. No. 946,605; Jan. 18; Sp. p. 3563; Gaz. vol. 150; p. 599.

Leach, Raymond J., Seekonk, Mass. Gas-engine. No. 958,881; May 24; Sp. p. 5387; Gaz. vol. 154; p. 903.

Leach, Raymond J., Seekonk, Mass. Two-cycle gas-engine. No. 968,244; Aug. 23; Sp. p. 5147; Gaz. vol. 157; p. 886.

Leach, Richard E., Cobalt, Ontario, Canada. Latch mechanism for split stocks and dies. No. 958,511; May 17; Sp. p. 4583; Gaz. vol. 154; p. 752.

Leacock, Robert J., trustee. (See Fleege, Frank H., assignor.)

Leadbeater, Frederick, Detroit, Mich. Valve. No. 956,811; May 3; Sp. p. 675; Gaz. vol. 154; p. 106.

Leadbetter, Bertrand. (See Leadbetter, Clayton and B.)

Leadbetter, Clayton and B., Lestershire, N. Y. Feed-bag. No. 978,761; Dec. 13; Sp. p. 2908; Gaz. vol. 161; p. 492.

Leader Iron Works. (See Shorb and Rodgers, assignors.)

Leader, Moses, *et al.* (See Darby, Averno A. and J. F., assignors.)

Leaf, Letitia, Findlay, Ohio. Metallic rail-fastener. No. 975,878; Nov. 15; Sp. p. 3969; Gaz. vol. 160; p. 668.

League, Charles C., Renovo, Pa. Cylinder-lubricator. No. 948,455; Feb. 8; Sp. p. 1413; Gaz. vol. 151; p. 252.

Leahy, James W., deceased, Jersey City, N. J.; M. A. Leahy, administratrix. Track construction. No. 946,760; Jan. 18; Sp. p. 3906; Gaz. vol. 150; p. 651.

Leahy, Louis K., Los Angeles, Cal. Sparking device for internal-combustion engines. No. 950,001; Feb. 22; Sp. p. 4725; Gaz. vol. 151; p. 835.

Leahy, Louis K., Los Angeles, Cal. Liquid-hydrocarbon-burning apparatus. No. 964,031; July 12; Sp. p. 2215; Gaz. vol. 156; p. 365.

Leahy, Mary A., administratrix. (See Leahy, James W.)

Leamon, John B., Atlanta, Ga. Machine for molding plastic materials. No. 960,968; June 7; Sp. p. 1454; Gaz. vol. 155; p. 245.

Leander, Axel, Chicago, Ill. Trousers. No. 969,380; Sept. 6; Sp. p. 496; Gaz. vol. 158; p. 79.

Leapley, Edward E., *et al.* (See Sloderbeck, Martin C., assignor.)

Learn, Emmett G., *et al.* (See Frost, Walter E., assignor.)

Leary, Dennis F., Chelsea, Mass. Fan-muffler. No. 945,101; Jan. 4; Sp. p. 197; Gaz. vol. 150; p. 33.

Leary, Edward J., South Boston, Mass. Wheeling-bed. No. 964,527; July 19; Sp. p. 3256; Gaz. vol. 156; p. 561.

Leary, William J., New York, N. Y., assignor to W. J. Leary Manufacturing Co., Jersey City, N. J. Excavating apparatus. No. 978,908; Dec. 20; Sp. p. 3186; Gaz. vol. 161; p. 566.

Leas, Frederick A., Oakland, Cal. Regenerative reverberatory furnace. No. 962,644; June 28; Sp. p. 5084; Gaz. vol. 155; p. 889.

Leask, Henry N., Egremont, England. Furnace. No. 960,969; June 7; Sp. p. 1458; Gaz. vol. 155; p. 245.

Leask, Henry N., Egremont, England. Means for utilizing the heat of clinker withdrawn from refuse-destructors, &c. No. 964,282; July 12; Sp. p. 2732; Gaz. vol. 156; p. 450.

Leask, Henry N., Egremont, England. Means for charging refuse-destructors. No. 974,680; Nov. 1; Sp. p. 1362; Gaz. vol. 160; p. 212.

Leask, Henry N., Manchester, England. Charging-door for refuse-destructors and other furnaces. No. 965,718; July 26; Sp. p. 5887; Gaz. vol. 156; p. 1000.

Leasure, Friend M. (See Leasure, Ira L. and F. M.)

Leasure, Ira L. and F. M., Templeton, assignors of one-third to J. Merwine, Pine township, Armstrong county, Pa. Rail-joint. No. 952,264; Mar. 15; Sp. p. 3630; Gaz. vol. 152; p. 652.

Leather, Basil H., Bathbeach, N. Y. Waterproof construction. No. 968,573; Aug. 30; Sp. p. 5831; Gaz. vol. 157; p. 1027.

Leatherman, Alpha H., Moundridge, Kans. Corn-planter. No. 977,021; Nov. 29; Sp. p. 6512; Gaz. vol. 160; p. 1111.

Leatherman, William M. (See Kress, Edward J., assignor.)

Leave, Andrew G., St. Francis, assignor of one-half to J. Schwartz, Brainerd, Minn. Spark-arrester. No. 947,042; Jan. 25; Sp. p. 5886; Gaz. vol. 150; p. 976.

Leavell, Thomas G., assignor of three-fourths to A. Kunkel, P. H. Sherman, and E. C. Lloyd, Spokane, Wash. Indicator. No. 971,052; Sept. 27; Sp. p. 4077; Gaz. vol. 158; p. 722.

Leavelle, John C. (See Johnson, Carl A., assignor.)

Leaver, James M., Jr., Sonora, Cal. Gage. No. 957,779; May 10; Sp. p. 2718; Gaz. vol. 154; p. 466.

Leaver, James M., Jr., Sonora, Cal. Gage. No. 957,780; May 10; Sp. p. 2724; Gaz. vol. 154; p. 466.

Leaver, James M., Jr., Sonora, Cal. Gage. No. 957,781; May 10; Sp. p. 2726; Gaz. vol. 154; p. 466.

Leaver, James M., Jr., Sonora, Cal. Gage. No. 957,782; May 10; Sp. p. 2727; Gaz. vol. 154; p. 467.

Leaver, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone desk-stand. No. 977,658; Dec. 6; Sp. p. 539; Gaz. vol. 161; p. 82.

Leavitt, Byron C., *et al.* (See Watson, Alexander, assignor.)

Leavitt, Francis A., Woodfords, Me. Tent. No. 964,796; July 19; Sp. p. 3941; Gaz. vol. 156; p. 655.

Leavitt, Frank M., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Air-heater for automobile torpedoes. No. 950,550; Mar. 1; Sp. p. 185; Gaz. vol. 152; p. 31.

Alphabetical list of patentees—Continued.

Leavitt, Frank M., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Exploder for automobile-torpedoes. No. 953,848; Apr. 5; Sp. p. 334; Gaz. vol. 153; p. 60.

Leavitt, John E., Boston, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Expansible foot-last. No. 957,975; May 17; Sp. p. 3204; Gaz. vol. 154; p. 564.

Leavitt Machine Co., The. (See Williams, Thomas B., assignor.)

Leavitt Machine Company, The. (See Smith and Williams, assignors.)

Leavitt, William H., Stamford, Tex. Tying device for hay bales or packages. No. 953,211; Mar. 29; Sp. p. 5661; Gaz. vol. 152; p. 1028.

Leavitt, William H., Stamford, Tex. Tying device for hay bales or packages. No. 970,065; Sept. 13; Sp. p. 2000; Gaz. vol. 158; p. 339.

Lebach, Hans, assignor to Knoll and Company, Ludwigshafen-on-the-Rhine, Germany. Hardening condensation products from phenols and aldehydes. No. 965,823; July 26; Sp. p. 6106; Gaz. vol. 156; p. 1036.

Leber, George J., Cleveland, Ohio. Fluid-regulator. No. 956,585; May 3; Sp. p. 169; Gaz. vol. 154; p. 29.

Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Condenser. No. 953,475; Mar. 29; Sp. p. 6236; Gaz. vol. 152; p. 1118.

Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Jet-condenser. No. 953,535; Mar. 29; Sp. p. 6371; Gaz. vol. 152; p. 1140.

Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Cooling apparatus for houses. No. 967,024; Aug. 9; Sp. p. 2574; Gaz. vol. 157; p. 422.

Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Refrigerating-machine. No. 977,659; Dec. 6; Sp. p. 541; Gaz. vol. 161; p. 82.

Lebovitz, Louis, Sedalia, Mo. Tie-plate. No. 968,960; Aug. 30; Sp. p. 6649; Gaz. vol. 157; p. 1158.

Lebreil, François, Villeurbanne, and R. Desgeorge, Lyon, France. Aeroplane. No. 976,582; Nov. 22; Sp. p. 5533; Gaz. vol. 160; p. 935.

Lecaime, Constant, Bordeaux, France. Reversible rotary engine. No. 967,396; Aug. 16; Sp. p. 3352; Gaz. vol. 157; p. 578.

Lechler, Firm Paul. (See Müller, Karl L., assignor.)

Lechner, Frederick W., Wenona, Ill. Road-smoothing device. No. 952,338; Mar. 15; Sp. p. 3788; Gaz. vol. 152; p. 677.

Lechtenberg, Henry, assignor to Central Iron Works, Quincy, Ill. Wedge-cutting machine. No. 951,320; Mar. 8; Sp. p. 1751; Gaz. vol. 152; p. 308.

Leckenby, James T., Hamilton, Ontario, Canada. Machine for trimming box-corners. No. 976,471; Nov. 22; Sp. p. 5284; Gaz. vol. 160; p. 897.

Leclair, Albert, Lewiston, Me. Barrel-cover fastener. No. 947,714; Jan. 25; Sp. p. 6008; Gaz. vol. 150; p. 1000.

Lecoche, Jules, East Putney, England. Worm-gearing. No. 968,574; Aug. 30; Sp. p. 5833; Gaz. vol. 157; p. 1028.

Lecoeur, Albert, Rouen, France. Manufacture of threads, filaments, or bands of cellulose. No. 967,397; Aug. 16; Sp. p. 3353; Gaz. vol. 157; p. 578.

Lecoeur, Albert, assignor to Société Anonyme Le Crinoid, Rouen, France. Making solutions of cuprammonium hydroxid. No. 947,715; Jan. 25; Sp. p. 6009; Gaz. vol. 150; p. 1000.

Lecoutre, August J., Worcester, Mass., assignor to Royal Worcester Corset Company. Corset. No. 962,363; June 21; Sp. p. 4453; Gaz. vol. 155; p. 768.

Ledbetter, A. L., *et al.* (See Holmes, Frank M., assignor.)

Ledbetter, John E. (See Pollard, Paxton, assignor.)

Leddell, Anton J., Bonetraill, N. D. Poultry nest and feeder. No. 965,308; July 26; Sp. p. 4983; Gaz. vol. 156; p. 858.

Leder, Louis. (See McCanlis, Albert T., assignor.)

Leder, Paul H. A., assignor of one-fourth to A. M. Hanline and one-fourth to E. E. Quandt, Baltimore, Md. Cellulose or pyroxylin compound. No. 974,285; Nov. 1; Sp. p. 467; Gaz. vol. 160; p. 68.

Lederer, Anton, Atzgersdorf, near Vienna, Austria-Hungary, assignor to Westinghouse Lamp Company, Bloomfield, N. J. Metallic incandescent filament. No. 971,452; Sept. 27; Sp. p. 4864; Gaz. vol. 158; p. 852.

Lederer, Anton, Atzgersdorf, near Vienna, Austria-Hungary, assignor to Westinghouse Lamp Company, Bloomfield, N. J. Incandescent electric lamp. No. 971,453; Sept. 27; Sp. p. 4865; Gaz. vol. 158; p. 852.

Lederer, John L., Buffalo, N. Y. Supporting device. No. 976,472; Nov. 22; Sp. p. 5289; Gaz. vol. 160; p. 897.

Lederer, Joseph, New York, N. Y. Inverted gas-burner. No. 955,973; Apr. 26; Sp. p. 4952; Gaz. vol. 153; p. 875.

Lederer, Leonhard, Sulzbach-Oberfalz, Germany. Producing acetyl-cellulose-coated material. No. 954,310; Apr. 5; Sp. p. 1310; Gaz. vol. 153; p. 217.

Lederle, Francis A. (See Lederle, John P. and F. A.)

Lederle, John P. and F. A., Chicago, Ill. Means for casting dental alloys. No. 946,677; Jan. 18; Sp. p. 3721; Gaz. vol. 150; p. 623.

Ledger, Philip, Leominster, Mass. Barrette. No. 946,058; Jan. 11; Sp. p. 2321; Gaz. vol. 150; p. 386.

Ledgerwood, Guy E., Hannibal, Mo. Lubricator. No. 964,032; July 12; Sp. p. 2218; Gaz. vol. 156; p. 365.

Ledig, Richard G., assignor to A. Mecky Co., Philadelphia, Pa. Adjustable vehicle-seat. No. 958,410; May 17; Sp. p. 4388; Gaz. vol. 154; p. 716.

Ledoux, Arthur. (See Ledoux, Joseph and A.)

Ledoux, John W., Swarthmore, Pa. Liquid-flow controller. No. 950,208; Feb. 22; Sp. p. 5163; Gaz. vol. 151; p. 906.

Ledoux, John W., Swarthmore, Pa. Apparatus for impregnating liquids with coagulants. No. 976,665; Nov. 22; Sp. p. 5695; Gaz. vol. 160; p. 963.

Ledoux, John W., Swarthmore, Pa., assignor to Simplex Valve & Meter Company, Camden, N. J. Liquid-meter. No. 956,374; Apr. 26; Sp. p. 5832; Gaz. vol. 153; p. 1013.

Ledoux, John W., Swarthmore, Pa., assignor to Simplex Valve & Meter Company, Camden, N. J. Liquid-meter. No. 956,375; Apr. 26; Sp. p. 5834; Gaz. vol. 153; p. 1013.

Ledoux, Joseph and A., Worcester, Mass. Double-door bolt. No. 950,551; Mar. 1; Sp. p. 188; Gaz. vol. 152; p. 32.

Lee, Albert H., Canby, Oreg. Insect-catcher. No. 948,786; Feb. 8; Sp. p. 2141; Gaz. vol. 151; p. 364.

Lee, Alfred M., trustee. (See Pease, Roger S., assignor.)

Lee, Alfred M., trustee. (See Pease and Sweet, assignors.)

Lee, Almon B., Big Rapids, Mich. Gasolene-lamp. No. 953,913; Apr. 5; Sp. p. 454; Gaz. vol. 153; p. 83.

Lee C. Moore & Company. (See Moore, Lee C., assignor.)

Lee, Charles, Butte, Mont. Closure for cans and like receptacles. No. 975,964; Nov. 15; Sp. p. 4133; Gaz. vol. 160; p. 699.

Lee, Delma E., Pontiac, Wash. Electric switch. No. 949,799; Feb. 22; Sp. p. 4219; Gaz. vol. 151; p. 762.

Lee, Elmer, Bangor, Pa. Device for holding fruit-jars. No. 964,978; July 19; Sp. p. 4298; Gaz. vol. 156; p. 717.

Lee, Elmo W., Tamaroa, Ill. File for school-desks. No. 948,896; Feb. 8; Sp. p. 2358; Gaz. vol. 151; p. 401.

Lee, Eugene, San Francisco, Cal. Bowling-alley. No. 974,400; Nov. 1; Sp. p. 718; Gaz. vol. 160; p. 109.

Lee, Frank E. (See Rogers and Lee.)

Lee, Frank H. (See Rogers, James E., assignor.)

Lee, Frederick J., Wichita, Kans. Door-fastener. No. 966,027; Aug. 2; Sp. p. 397; Gaz. vol. 157; p. 63.

Lee, Fredrick and H., Redditch, England. Spinner for fishing. No. 968,961; Aug. 30; Sp. p. 6650; Gaz. vol. 157; p. 1158.

Lee, George H., Omaha, Nebr. Fireless brooder. No. 960,099; May 31; Sp. p. 7970; Gaz. vol. 154; p. 1336.

Lee, George H., Omaha, Nebr. Humidor. No. 963,592; July 5; Sp. p. 1267; Gaz. vol. 156; p. 194.

Lee, George H., Omaha, Nebr. Brooder. No. 966,222; Aug. 2; Sp. p. 813; Gaz. vol. 157; p. 129.

Lee, Gertrude C., Oakland, Cal. Sad-iron heater. No. 945,557; Jan. 4; Sp. p. 1193; Gaz. vol. 150; p. 184.

Lee, Harold. (See Lee, Fredrick and H.)

Lee, Harry H., and A. E. Button, Schenectady, N. Y., assignors to General Electric Company. Starting device for electric motors. No. 963,160; July 5; Sp. p. 338; Gaz. vol. 156; p. 48.

Lee, Henry B., Hartford, Conn. Steam-turbine. No. 979,077; Dec. 20; Sp. p. 3573; Gaz. vol. 161; p. 625.

Lee, Isaac E., assignor of five-sixteenths to C. A. Witt, Broadway, and five-sixteenths to J. F. Blackburn, Harrisonburg, Va. Cheese-cutter. No. 948,422; Feb. 8; Sp. p. 1350; Gaz. vol. 151; p. 242.

Lee, Isham M., near Waycross, Ga. Still. No. 962,965; June 28; Sp. p. 5708; Gaz. vol. 155; p. 1001.

Lee, J. J. (See Lee, John B. Jr., assignor.)

Lee, James A., Bellsville, Ohio. Pump for medicating air. No. 978,313; Dec. 13; Sp. p. 1948; Gaz. vol. 161; p. 340.

Lee, James S. (See Lee, Samuel, assignor.)

Lee, John, Oelwein, Iowa. Spring-wheel. No. 964,979; July 19; Sp. p. 4300; Gaz. vol. 156; p. 717.

Lee, John B., Anniston, Ala. Sash-weight. No. 953,341; Mar. 29; Sp. p. 5943; Gaz. vol. 152; p. 1071.

Lee, John B., Jr., assignor, by mesne assignments, to J. J. Lee, Minneapolis, Minn. Storm-sash holder. No. 966,930; Aug. 9; Sp. p. 2375; Gaz. vol. 157; p. 389.

Lee, John E., Conshohocken, Pa., assignor to Johnson and Johnson, New Brunswick, N. J. Hypodermic syringe. No. 967,136; Aug. 9; Sp. p. 2811; Gaz. vol. 157; p. 461.

Lee, John H. (See Barrett, Harold G., assignor.)

Lee, Lulu S., Los Angeles, Cal. Combination-garment. No. 974,981; Nov. 8; Sp. p. 2065; Gaz. vol. 160; p. 337.

Lee, Nutter R., Johnstown, Colo. Mold. No. 951,688; Mar. 8; Sp. p. 2477; Gaz. vol. 152; p. 430.

Lee, Robert E., Lima, Tex. Match-box. No. 956,376; Apr. 26; Sp. p. 5837; Gaz. vol. 153; p. 1014.

Lee, Samuel, South Connellsville, assignor of one-fourth to J. S. Lee, Banning Station, Pa. Rail-joint. No. 967,530; Aug. 16; Sp. p. 3627; Gaz. vol. 157; p. 623.

Lee, Stephen B., Danbury, Iowa. Fish and game hook. No. 958,142; May 17; Sp. p. 3694; Gaz. vol. 154; p. 624.

Lee, Thomas B., Charlotte, N. C. Water-turbine. No. 962,364; June 21; Sp. p. 4454; Gaz. vol. 155; p. 768.

Alphabetical list of patentees—Continued.

Lee, Thomas J. (See Bickers and Lee.)
Lee & Underhill. (See Kilgour, William D., assignor.)
Lee, Walker D., Cleveland, Ohio. Recording-pyrometer of the thermo-electric type. No. 963,908; July 12; Sp. p. 1962; Gaz. vol. 156; p. 322.
Lee, Wellington D., Jacksonville, Fla. Window-shade hanger. No. 946,700; Jan. 18; Sp. p. 3766; Gaz. vol. 150; p. 630.
Lee, William A., Peoria, Ill. System of irrigation. No. 976,473; Nov. 22; Sp. p. 5291; Gaz. vol. 160; p. 898.
Lee, William H. (See Hodges and Lee.)
Lee, William H., V. T. Snover, and M. H. Palmer, Wyalusing, Pa. Horseshoe-calking machine. No. 975,366; Nov. 8; Sp. p. 2888; Gaz. vol. 160; p. 467.
Lee, William R., Rochester, N. Y. Arch-support. No. 976,888; Nov. 29; Sp. p. 6182; Gaz. vol. 160; p. 1064.
Leech, Charles M., Lima, Ohio. Gas-engine. No. 973,792; Oct. 25; Sp. p. 4988; Gaz. vol. 159; p. 867.
Leech, Charles M., Lima, Ohio. Transmission-gear. No. 973,793; Oct. 25; Sp. p. 4992; Gaz. vol. 159; p. 868.
Leech, Charles M., Lima, Ohio. Combined transmission and differential gear. No. 977,887; Dec. 6; Sp. p. 1015; Gaz. vol. 161; p. 161.
Leeder, Francis T., assignor to Lewis & Leeder, Sioux City, Iowa. Cement-form. No. 979,863; Dec. 27; Sp. p. 5306; Gaz. vol. 161; p. 918.
Leedham, Russel C., Trinidad, Colo. Rotary engine. No. 962,850; June 28; Sp. p. 5500; Gaz. vol. 155; p. 962.
Leedom, Walter M., Colton, Cal. Reciprocating gas-engine. No. 959,019; May 24; Sp. p. 5648; Gaz. vol. 154; p. 949.
Leeds, Edward F., New York, N. Y. Phonautographic record and duplicating the same. No. 974,895; Nov. 8; Sp. p. 1841; Gaz. vol. 160; p. 307.
Leeds Forge Company. (See Lane, Francis L., assignor.)
Leeds, Hosmer W., Chicago, Ill. Air-intake for cars. No. 948,144; Feb. 1; Sp. p. 753; Gaz. vol. 151; p. 123.
Leeds, Morris E. (See Northrup, Leeds, and Cary.)
Leeds, Morris E., Philadelphia, Pa., assignor to Leeds and Northrup Company. Recorder. No. 965,824; July 26; Sp. p. 6108; Gaz. vol. 156; p. 1036.
Leeds and Northrup Company. (See Leeds, Morris E., assignor.)
Leeds and Northrup Company. (See Northrup, Edwin F., assignor.)
Leeds and Northrup Company. (See Northrup, Leeds, and Cary, assignors.)
Leedy Manufacturing Company. (See Wanamaker, Charles B., assignor.)
Leedy Manufacturing Company. (See Winterhoff, Herman E., assignor.)
Leefson, Maurits, Philadelphia, Pa. Device for opening and holding the mouths of fish, &c. No. 974,500; Nov. 1; Sp. p. 977; Gaz. vol. 160; p. 145.
Leen, John D., assignor of one-half to T. Gallagher, Bangor, Me. Lard-cutter. No. 954,444; Apr. 12; Sp. p. 1578; Gaz. vol. 153; p. 289.
Leen, Patrick W., Minneapolis, Minn. Switch-actuating mechanism. No. 964,661; July 19; Sp. p. 3558; Gaz. vol. 156; p. 608.
Leenhouts, Abraham. (See De Pree, Leenhouts, and Mersen.)
Leer, Courtland E., Paris, Ky. Bookkeeping-file. No. 953,963; Apr. 5; Sp. p. 548; Gaz. vol. 153; p. 99.
Lees, Archibald. (See Shaw and Lees.)
Lees, James R., assignor to The Colorado Pressed Steel Company, Denver, Colo. Cover for beet-flumes. No. 973,442; Oct. 18; Sp. p. 4245; Gaz. vol. 159; p. 723.
Lees, Miles, Providence, R. I. Gas-governor. No. 952,822; Mar. 22; Sp. p. 4841; Gaz. vol. 152; p. 871.
Lees, Thomas W. (See Shaw and Lees.)
Lees, Walter. (See Shaw and Lees.)
Leese, Harry M., Washington, D. C. Desk. No. 970,933; Sept. 20; Sp. p. 3829; Gaz. vol. 158; p. 653.
Leese, Harry M., Washington, D. C. Lock. No. 970,934; Sept. 20; Sp. p. 3831; Gaz. vol. 158; p. 653.
Leese, Joseph, Manchester, England. Preparing powdered magnesite. No. 968,669; Aug. 30; Sp. p. 6039; Gaz. vol. 157; p. 1060.
Leet, Edward A., New York, N. Y. Horn. No. 972,003; Oct. 4; Sp. p. 1089; Gaz. vol. 159; p. 183.
Leet, Lynn T., Reading, Pa., assignor, by mesne assignments, to T. Reid, New York, N. Y. Hydrating lime. No. 955,814; Apr. 19; Sp. p. 4572; Gaz. vol. 153; p. 790.
Leethem, Frank C., Middletown, N. Y. Press-bed. No. 955,087; Apr. 12; Sp. p. 3006; Gaz. vol. 153; p. 510.
Leeve, Peter, Philadelphia, Pa. Necktie form and retainer. No. 952,823; Mar. 22; Sp. p. 4843; Gaz. vol. 152; p. 871.
Leevers, Frederic W., Walthamstow, England. Stop and through-way valve. No. 970,245; Sept. 13; Sp. p. 2371; Gaz. vol. 158; p. 399.
Lefebre, Charles, Lawrence, Mass. Protector mechanism for looms. No. 949,829; Feb. 22; Sp. p. 4288; Gaz. vol. 151; p. 773.
Lefèbre, Edward A., Jr., assignor to J. H. Dale, New York, N. Y. Cluster-socket. No. 949,541; Feb. 15; Sp. p. 3696; Gaz. vol. 151; p. 642.
Lefever Arms Company. (See Green, Charles, assignor.)
Lefèvre, Gaston, Havre, France. Rotating advertising apparatus. No. 954,525; Apr. 12; Sp. p. 1772; Gaz. vol. 153; p. 318.
Leffler, James H. (See Trimble, John E., assignor.)
Lefler, Frank C., Ulysses, assignor of one-half to J. F. Stone, Coudersport, Pa. Single-trigger mechanism for double-barrel guns. No. 955,275; Apr. 19; Sp. p. 3407; Gaz. vol. 153; p. 606.
Lefleur, Barthelemiy, Vancouver, British Columbia, Canada. Milk-can. No. 977,660; Dec. 6; Sp. p. 543; Gaz. vol. 161; p. 82.
Lefley, George A., West View, Pa. Trolley. No. 962,365; June 21; Sp. p. 4458; Gaz. vol. 155; p. 768.
Legel, Willy, Berlin, Germany, assignor to General Electric Company. Electric-arc lamp. No. 977,022; Nov. 29; Sp. p. 6515; Gaz. vol. 160; p. 1111.
Legg, Alfred G., assignor to C. S. Pierce, Brockton, Mass. Shoe-last. No. 946,235; Jan. 11; Sp. p. 2694; Gaz. vol. 150; p. 448.
Leggett & Brother. (See Leggett, Clinton H., assignor.)
Leggett, Clinton H., assignor to Leggett & Brother, New York, N. Y. Powder-distributer. No. 950,931; Mar. 1; Sp. p. 981; Gaz. vol. 152; p. 157.
Leggett, George R. (See Goss and Leggett.)
Legros, Henri, Brussels, Belgium. Centrifugal pump. No. 963,593; July 5; Sp. p. 1268; Gaz. vol. 156; p. 195.
Lehman, Charles F. (See Eichmann, Henry P. A. A., assignor.)
Lehman, Harry B., Columbus, Ohio. Device for testing electrical apparatus. No. 975,879; Nov. 15; Sp. p. 3970; Gaz. vol. 160; p. 669.
Lehman, Jacob, Canton, Ohio. Pedestal. No. 965,471; July 26; Sp. p. 5338; Gaz. vol. 156; p. 913.
Lehman, Otto A., Hoboken, N. J. Bag. No. 971,284; Sept. 27; Sp. p. 4558; Gaz. vol. 158; p. 797.
Lehmann, Adolf, New York, N. Y. Machine for turning irregular forms. No. 963,594; July 5; Sp. p. 1270; Gaz. vol. 156; p. 195.
Lehmann, Arthur E., *et al.* (See Niemeyer, Lehmann, and Sinskey.)
Lehmann, Emil, assignor to Enterprise Bed Company, Hammond, Ind. Tent-bed. No. 947,341; Jan. 25; Sp. p. 5204; Gaz. vol. 150; p. 876.
Lehmann, Emil, assignor to Enterprise Bed Company, Hammond, Ind. Camping-bed. No. 947,472; Jan. 25; Sp. p. 5491; Gaz. vol. 150; p. 918.
Lehmann, Ernst P. (See Winzer, Charles B., assignor.)
Lehmann, Johan F. (See Hansen, Lehmann, and Jensen.)
Lehmann, Joseph, Paris, France. Apparatus for the preparation of colorless glue. No. 964,980; July 19; Sp. p. 4301; Gaz. vol. 156; p. 718.
Lehmann, Richard, Berlin, Germany. Aerial projectile. No. 948,177; Feb. 1; Sp. p. 805; Gaz. vol. 151; p. 134.
Lehmann, Rudolf A. L. (See Durand, Leopold, assignor.)
Lehmann, Walter. (See Nottberg and Lehmann.)
Lehmann, William J., Indianapolis, Ind. Electric fuse. No. 950,932; Mar. 1; Sp. p. 982; Gaz. vol. 152; p. 157.
Lehr, Joseph (See Schirmer and Lehr.)
Lehr, William J., East Palestine, Ohio. Bedclothes-holder. No. 959,763; May 31; Sp. p. 7203; Gaz. vol. 154; p. 1223.
Leibe, William R., and A. P. Bonnaffons, New Orleans, La. Bin. No. 977,318; Nov. 29; Sp. p. 7124; Gaz. vol. 160; p. 1212.
Leibhart, Andreas. (See Ashton, Pullon, assignor.)
Leibowitz, Leon M., New York, N. Y. Collapsible crate. No. 958,749; May 24; Sp. p. 5064; Gaz. vol. 154; p. 856.
Leich, George, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Air-valve. No. 951,822; Mar. 15; Sp. p. 2763; Gaz. vol. 152; p. 505.
Leich, Oscar M., *et al.* (See Zabel, Max W., assignor.)
Leich, Oscar M., assignor to Cracraft-Leich Electric Company, Genoa, Ill. Telephone system. No. 954,445; Apr. 12; Sp. p. 1580; Gaz. vol. 153; p. 290.
Leich, Oscar M., assignor to Cracraft-Leich Electric Co., Genoa, Ill. Generator apparatus. No. 964,033; July 12; Sp. p. 2219; Gaz. vol. 156; p. 365.
Leich, Oscar M., assignor to Cracraft-Leich Electric Co., Genoa, Ill. Current-interrupting device. No. 964,169; July 12; Sp. p. 2499; Gaz. vol. 156; p. 411.
Leich, Oscar M., assignor to Cracraft-Leich Electric Co., Genoa, Ill. Magneto-telephone. No. 967,204; Aug. 16; Sp. p. 2955; Gaz. vol. 157; p. 511.
Leich, Oscar M., assignor to Cracraft-Leich Electric Company, Genoa, Ill. Selective signaling system. No. 976,380; Nov. 22; Sp. p. 5092; Gaz. vol. 160; p. 864.
Leich, Oscar M., assignor to Cracraft-Leich Electric Co., Genoa, Ill. Composite telephone and telegraph system. No. 978,909; Dec. 20; Sp. p. 3190; Gaz. vol. 161; p. 567.
Leich, Oscar M., and N. Pedersen, assignors to Cracraft-Leich Electric Co., Genoa, Ill. Switching device. No. 956,377; Apr. 26; Sp. p. 5838; Gaz. vol. 153; p. 1014.
Leich, Oscar M., and N. Pedersen, assignors to Cracraft-Leich Electric Co., Genoa, Ill. Telephone-transmitter. No. 970,066; Sept. 13; Sp. p. 2002; Gaz. vol. 158; p. 339.
Leick, Fred H., *et al.* (See Olds, Frederick P., assignor.)
Leidecker, Frank W., Marietta, assignor of one-eighth to C. Mount, Carmen, Ohio. Gage-cock. No. 961,971; June 21; Sp. p. 3607; Gaz. vol. 155; p. 634.
Leidenberg, Leopold. (See Albrecht and Leidenberg.)
Leidenberg, Leopold. (See Muehleisen, Molkenthin, and Leidenberg.)
Leidich, Adam, *et al.* (See Van Tekelenburg, John, assignor.)

Alphabetical list of patentees—Continued.

Leiger, George F., South Haven, Mich. Rotary engine. No. 977,888; Dec. 6; Sp. p. 1018; Gaz. vol. 161; p. 161.
Leigh, Abner, Osceola, Ark. Scrubbing-machine. No. 979,773; Dec. 27; Sp. p. 5090; Gaz. vol. 161; p. 887.
Leigh, Frederick J., assignor to Imperial Car Shipbuilding and Dry Dock Corporation, Seattle, Wash. Railway-car compartment and folding table therefor. No. 966,028; Aug. 2; Sp. p. 399; Gaz. vol. 157; p. 64.
Leigh, Frederick J., assignor to Imperial Car Shipbuilding and Dry Dock Corporation, Seattle, Wash. Sleeping-car berth and chair. No. 967,137; Aug. 9; Sp. p. 2812; Gaz. vol. 157; p. 461.
Leigh, Frederick J., assignor to Imperial Car Shipbuilding and Dry Dock Corporation, Seattle, Wash. Ventilating-cowl for railway-cars. No. 969,708; Sept. 6; Sp. p. 1168; Gaz. vol. 158; p. 190.
Leighton, George F., Cincinnati, Ohio. Punching and shearing machine. No. 968,670; Aug. 30; Sp. p. 6042; Gaz. vol. 157; p. 1060.
Leighton, Hugh C., Portland, Me. Combined box, ejector, and cover. No. 963,229; July 5; Sp. p. 510; Gaz. vol. 156; p. 72.
Leighton, Richard B. H., and V. W. Zilen, Chattanooga, Tenn. Car-coupling. No. 976,583; Nov. 22; Sp. p. 5534; Gaz. vol. 160; p. 935.
Leighton, William M., Clinton, Ill. Piston packing-ring. No. 953,627; Mar. 29; Sp. p. 6553; Gaz. vol. 152; p. 1170.
Leighty, Henry M. F., Dawson, Iowa. Milk-can-cover-locking device. No. 951,423; Mar. 8; Sp. p. 1959; Gaz. vol. 152; p. 341.
Leighty, Henry M. F., Dawson, Iowa. Cover-holder for cans. No. 951,916; Mar. 15; Sp. p. 2977; Gaz. vol. 152; p. 538.
Leilich, Henry L., and J. P. Burger, assignors to The Delphos Manufacturing Company, Delphos, Ohio. Sheet-trimming and edge-folding machine. No. 971,905; Oct. 4; Sp. p. 845; Gaz. vol. 159; p. 145.
Leimbach, William C., Jr., and F. H. Grimberg, Hammond, Ind. Coffee or tea pot. No. 960,353; June 7; Sp. p. 236; Gaz. vol. 155; p. 40.
Leinbrock, Paul, Copitz, near Dresden, Germany. Closure for bottles or like vessels. No. 954,115; Apr. 5; Sp. p. 871; Gaz. vol. 153; p. 151.
Leindecker, Charles. (See Matheus and Leindecker.)
Leiner, Jacob, Baltimore, Md. Coat-sleeve. No. 954,311; Apr. 5; Sp. p. 1311; Gaz. vol. 153; p. 217.
Leinert, Wenzel, Moscow, Russia, assignor of one-half to F. C. Lloyd, New York, N. Y. Apparatus for weighing liquids. (Reissue.) No. 13,074; Jan. 4; Sp. p. 1607; Gaz. vol. 150; p. 249.
Leineweber, Herman, South Chicago, Ill. Nail-clipper. No. 970,067; Sept. 13; Sp. p. 2004; Gaz. vol. 158; p. 340.
Leininger, John, assignor of one-half to P. Zellers, Akron, Ohio. Portable wardrobe. No. 949,583; Feb. 15; Sp. p. 3776; Gaz. vol. 151; p. 656.
Leipert, Friedrich W. C., Philadelphia, Pa. Actuating foot-rest for rocking-chairs. No. 959,949; May 31; Sp. p. 7636; Gaz. vol. 154; p. 1287.
Leisner, Gustaf L., Minneapolis, Minn. Rope-buckle. No. 977,642; Dec. 6; Sp. p. 511; Gaz. vol. 161; p. 76.
Leist, William, Norwood, assignor to G. H. Jantz, Wyoming, Ohio. Mangle. No. 975,260; Nov. 8; Sp. p. 2672; Gaz. vol. 160; p. 432.
Leistler, Alois, Hollenstein a. d. Ybbs, Austria-Hungary. Automatically-locking lock for doors and the like. No. 970,628; Sept. 20; Sp. p. 3199; Gaz. vol. 158; p. 550.
Leistler, Alois, Hollenstein a. d. Ybbs, Austria-Hungary. Safety device for automatically-locking locks. No. 970,629; Sept. 20; Sp. p. 3201; Gaz. vol. 158; p. 550.
Leitch, Meredith, assignor to American Can Company, New York, N. Y. Can-soldering and surplus-solder-removing machine. No. 958,750; May 24; Sp. p. 5065; Gaz. vol. 154; p. 856.
Leitch, Meredith, Springfield, Mass., assignor to The American Thread Company. Spool. No. 976,381; Nov. 22; Sp. p. 5097; Gaz. vol. 160; p. 865.
Leitch, Meredith, Springfield, Mass., assignor to The American Thread Company. Spool. No. 976,382; Nov. 22; Sp. p. 5099; Gaz. vol. 160; p. 865.
Leitch, Meredith, Springfield, Mass., assignor to The American Thread Company, New York, N. Y. Winding apparatus. No. 977,104; Nov. 29; Sp. p. 6691; Gaz. vol. 160; p. 1139.
Leiter, Aaron F., Dayton, Ohio. Combination floor-joist and ceiling. No. 955,338; Apr. 19; Sp. p. 3552; Gaz. vol. 153; p. 628.
Leiter, John A., and C. P. Oakman, assignors to The American Stoker Company, Erie, Pa. Melting-furnace. No. 969,066; Aug. 30; Sp. p. 6865; Gaz. vol. 157; p. 1194.
Leith, James, Sherbrooke, Quebec, Canada. Lever for railway-switches. No. 952,076; Mar. 15; Sp. p. 3271; Gaz. vol. 152; p. 589.
Leith, William J. (See Whittemore, William C., assignor.)
Leithem, Joseph, St. Louis, Mo. Lady's hat and hair fastener. No. 974,082; Oct. 25; Sp. p. 5585; Gaz. vol. 159; p. 968.
Leitner, George H., *et al.* (See Hurt, Ambrose P., assignor.)
Leix, Henry, Brooklyn, and E. M. Lowy, assignors to National Glide Proof Company, New York, N. Y. Pulley-dressing. No. 953,699; Apr. 5; Sp. p. 38; Gaz. vol. 153; p. 10.
Leland & Co., W. H. (See Burns, James J., assignor.)
Leland, John A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Chuck. No. 974,896; Nov. 8; Sp. p. 1847; Gaz. vol. 160; p. 307.
Leland, Sanford D., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Milling-machine. No. 979,972; Dec. 27; Sp. p. 5514; Gaz. vol. 161; p. 953.
Lemaire, Napoleon, Taunton, Mass. Picker-strap for looms. No. 952,533; Mar. 22; Sp. p. 4198; Gaz. vol. 152; p. 771.
Lemak, George, Alpha, N. J. Chain-stretching device. No. 963,052; July 5; Sp. p. 51; Gaz. vol. 156; p. 10.
Lemarchand, Maurice and R., and V. Montet, Rouen, France. Shuttle-changing mechanism for looms. No. 950,933; Mar. 1; Sp. p. 984; Gaz. vol. 152; p. 158.
Lemarchand, Raymond. (See Lemarchand and Montet.)
Lemaster, Pleasant T., Spartanburg, S. C. Floor-surfacing device. No. 948,927; Feb. 8; Sp. p. 2406; Gaz. vol. 151; p. 410.
Lemay, Joseph, New York, N. Y. Garment-clasp. No. 958,411; May 17; Sp. p. 4389; Gaz. vol. 154; p. 717.
Lemay, Joseph, New York, N. Y. Garment-clasp. No. 961,701; June 14; Sp. p. 3001; Gaz. vol. 155; p. 520.
Lembke, Albert C. (See Wannenwetsch, Charles H. A., assignor.)
Lembke, Carl H. F., Toledo, Ohio. Extracting apparatus. No. 970,246; Sept. 13; Sp. p. 2375; Gaz. vol. 158; p. 400.
Lemert, Laban, Brownstown, Ill. Current water-wheel. No. 951,616; Mar. 8; Sp. p. 2339; Gaz. vol. 152; p. 405.
Lemétais, Julien A., Paris, France. Valve-cock. No. 975,440; Nov. 15; Sp. p. 3042; Gaz. vol. 160; p. 520.
Lemieux, Bernard. (See Dutelle, Joseph M., assignor.)
Lemieux, George, Washburn, Wis. Handle. No. 959,235; May 24; Sp. p. 6112; Gaz. vol. 154; p. 1021.
Lemieux, George, Washburn, Wis. Mail-deliverer. No. 966,223; Aug. 2; Sp. p. 815; Gaz. vol. 157; p. 129.
Lemke, August, Detroit, Mich. Skid. No. 976,889; Nov. 29; Sp. p. 6183; Gaz. vol. 160; p. 1065.
Lemmon, Rees H., Peru, Kans. Hammer-strap. No. 947,109; Jan. 18; Sp. p. 4655; Gaz. vol. 150; p. 768.
Lemon, Dock F., Bardley, Mo. Car-step. No. 950,334; Feb. 22; Sp. p. 5408; Gaz. vol. 151; p. 949.
Lemon, Don M., assignor of one-half to E. V. Page, Boston, Mass. Toy. No. 962,154; June 21; Sp. p. 4026; Gaz. vol. 155; p. 699.
Lemon, Don M., assignor of one-half to E. V. Page, Boston, Mass. Eraser for type-writing machines. No. 979,316; Dec. 20; Sp. p. 4118; Gaz. vol. 161; p. 709.
Lemons, William D., assignor of one-half to W. D. and T. J. Babington, Shelby, N. C. Combined seed-planter and fertilizer-distributer. No. 971,856; Oct. 4; Sp. p. 731; Gaz. vol. 159; p. 128.
Lemons, William R., Cataline, Tex. Stalk-cutter. No. 948,423; Feb. 8; Sp. p. 1353; Gaz. vol. 151; p. 242.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Means for controlling fuel-supply in steam-generating systems. No. 953,212; Mar. 29; Sp. p. 5663; Gaz. vol. 152; p. 1029.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Welding thin tubing. No. 956,984; May 3; Sp. p. 1059; Gaz. vol. 154; p. 166.
Lemp, Hermann, Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Kerosene-burner. No. 969,545; Sept. 6; Sp. p. 848; Gaz. vol. 158; p. 133.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Heating system. No. 974,161; Nov. 1; Sp. p. 107; Gaz. vol. 160; p. 21.
Lemyre, Joseph E., Manchester, N. H., assignor to Patent Sales Company, Kittery, Me. Loom. No. 957,615; May 10; Sp. p. 2360; Gaz. vol. 154; p. 411.
Lencoski, John B., *et al.* (See Cebulla, Thomas, assignor.)
Lenders, Adolph W. H. (See Sovereign and Lenders.)
Lenders, Adolph W. H., Waukegan, Ill. Separating, washing, and concentrating materials. No. 948,512; Feb. 8; Sp. p. 1544; Gaz. vol. 151; p. 273.
Lenders, Adolph W. H., Waukegan, Ill. Apparatus for separating, washing, and concentrating materials. No. 948,513; Feb. 8; Sp. p. 1548; Gaz. vol. 151; p. 273.
Lenders, Adolph W. H., Waukegan, Ill. Steeping grain. No. 948,514; Feb. 8; Sp. p. 1551; Gaz. vol. 151; p. 274.
Lenhart, William, Cuyahoga Falls, Ohio. Device for operating motors for sewing-machines and the like. No. 957,223; May 10; Sp. p. 1572; Gaz. vol. 154; p. 277.
Lenherr, Harry L., Mercersburg, Pa. Cornet-mouthpiece. No. 949,021; Feb. 15; Sp. p. 2629; Gaz. vol. 151; p. 469.
Lenne, Frank, Montreal, Quebec, Canada. Lantern. No. 978,172; Dec. 13; Sp. p. 1640; Gaz. vol. 161; p. 290.
Lennon, William, Manitou, Colo. Connecting-coupling for extensible conveyers and receptacles. No. 977,023; Nov. 29; Sp. p. 6516; Gaz. vol. 160; p. 1112.
Lennox, David, assignor to Lennox Machine Co., Marshalltown, Iowa. Sheet-shearing machine. No. 954,681; Apr. 12; Sp. p. 2116; Gaz. vol. 153; p. 371.

Lennox, David N., Greenock, Scotland. Machine for inking and reinking type-writer and similar ribbons. No. 977,661; Dec. 6; Sp. p. 545; Gaz. vol. 161; p. 83.
Lennox Machine Co. (See Lennox, David, assignor.)
Lennox, Talbot, Chicago, Ill. Railway-track structure. No. 964,981; July 19; Sp. p. 4303; Gaz. vol. 156; p. 718.
Lennox, Talbot, Chicago, Ill., assignor of one-half to A. B. Higman and one-half to A. L. Loomis, Benton Harbor, Mich. Display apparatus. No. 947,828; Feb. 1; Sp. p. 83; Gaz. vol. 151; p. 18.
Lens, G. John, *et al.* (See Stocklmier, Matthias, assignor.)
Lent, Alfred H. (See Donahoo, Peter B., assignor.)
Lent, Alfred H. (See Larcher, Frank W., assignor.)
Lent, Alfred H., Oakland, Cal. Pivot-light. No. 967,205; Aug. 16; Sp. p. 2959; Gaz. vol. 157; p. 512.
Lent, Alfred H., Oakland, Cal. Pivot-light. No. 967,206; Aug. 16; Sp. p. 2960; Gaz. vol. 157; p. 512.
Lent, Alfred H., Oakland, Cal. Pivot-light. No. 967,207; Aug. 16; Sp. p. 2960; Gaz. vol. 157; p. 512.
Lent, Alfred H., Oakland, Cal. Comb. No. 968,371; Aug. 23; Sp. p. 5399; Gaz. vol. 157; p. 931.
Lent, Alvah F., Newark, N. J. Ratchet-jack. No. 945,334; Jan. 4; Sp. p. 722; Gaz. vol. 150; p. 111.
Lent, Alvah F., assignor to C. F. Paulus, Newark, N. J. Cap-exploding device. No. 976,814; Nov. 22; Sp. p. 5996; Gaz. vol. 160; p. 1013.
Lent, Charles W., Tingley, Iowa. Door-securer. No. 945,558; Jan. 4; Sp. p. 1194; Gaz. vol. 150; p. 185.
Lenta, Albert, Schenectady, N. Y. Detachable horseshoe. No. 964,797; July 19; Sp. p. 3943; Gaz. vol. 156; p. 655.
Lentz, George, *et al.* (See Macdonald, Thomas A., assignor.)
Lentz, Hugo, Mannheim, Germany. Universal coupling. No. 949,189; Feb. 15; Sp. p. 2960; Gaz. vol. 151; p. 524.
Lentz, Hugo, Mannheim, Germany. Valve arrangement for controlling fluid transmission-gears. No. 980,106; Dec. 27; Sp. p. 5832; Gaz. vol. 161; p. 998.
Lentz, Philipp, Gross-Lichterfelde, near Berlin, Germany. Signaling apparatus for airships and the like. No. 974,103; Oct. 25; Sp. p. 5625; Gaz. vol. 159; p. 975.
Lentz, Sylvanus P., Dayton, Ind. Cultivator-shovel. No. 970,247; Sept. 13; Sp. p. 2377; Gaz. vol. 158; p. 400.
Lenz, Charles S., New York, N. Y. Life-buoy rack. No. 947,446; Jan. 25; Sp. p. 5434; Gaz. vol. 150; p. 910.
Lenz, Charles S., New York, N. Y. Sounding apparatus. No. 959,764; May 31; Sp. p. 7204; Gaz. vol. 154; p. 1223.
Lenz, Fred W., Neillsville, Wis. Sawing-machine. No. 951,826; Mar. 15; Sp. p. 2768; Gaz. vol. 152; p. 506.
Lenzi, Frank, assignor of sixteen and two-thirds per cent. to J. J. Hynes, eleven and one-ninth per cent. to F. W. Wenners, sixteen and two-thirds per cent. to B. C. Edwards, eleven and one-ninth per cent. to R. M. Duffy, and eleven and one-ninth per cent. to G. A. Wenners, Boston, Mass. Non-refillable bottle. No. 947,110; Jan. 18; Sp. p. 4656; Gaz. vol. 150; p. 768.
Leo, Richard L., New York, N. Y. Folding bath-tub. No. 979,973; Dec. 27; Sp. p. 5520; Gaz. vol. 161; p. 953.
Leo, William, and J. C. Bayer, Portland, Oreg. Air-pipe damper. No. 971,285; Sept. 27; Sp. p. 4559; Gaz. vol. 158; p. 797.
Leon, Bert, assignor of one-half to W. A. Sherer, Toledo, Ohio. Embalmer's injecting and aspirating apparatus. No. 972,878; Oct. 18; Sp. p. 2982; Gaz. vol. 159; p. 528.
Leon, Karl O., Gottenborg, Sweden. Automatic depth-regulating device for freely-subfloating bodies. No. 952,452; Mar. 22; Sp. p. 4016; Gaz. vol. 152; p. 743.
Leon, Karl O., Karlskrona, assignor of one-half to Röhss & Carlander, Gottenborg, Sweden. Submarine mine, torpedo, and the like. No. 952,450; Mar. 22; Sp. p. 4007; Gaz. vol. 152; p. 743.
Leon, Karl O., Stockholm, assignor of one-half to Röhss & Carlander, Gottenborg, Sweden. Torpedo and the like. No. 952,451; Mar. 22; Sp. p. 4012; Gaz. vol. 152; p. 743.
Leon, Leon S., Chicago, Ill. Embroidery-piercer. No. 953,149; Mar. 29; Sp. p. 5534; Gaz. vol. 152; p. 1009.
Leonard, Allen M., and A. F. Klee, East Lake, Ala. Carpenter's saw. No. 966,932; Aug. 9; Sp. p. 2378; Gaz. vol. 157; p. 390.
Leonard, Arthur G. (See Odell, John B., assignor.)
Leonard, Charles N., assignor to W. D. Allison, Indianapolis, Ind. Physician's table. No. 964,170; July 12; Sp. p. 2500; Gaz. vol. 156; p. 411.
Leonard, Eva C., Thompson, Pa. Umbrella, hat, or like support. No. 946,377; Jan. 11; Sp. p. 3097; Gaz. vol. 150; p. 497.
Leonard, Harry W., Bronxville, N. Y. Automatic circuit-breaker. No. 960,970; June 7; Sp. p. 1460; Gaz. vol. 155; p. 245.
Leonard, Harry W., Bronxville, N. Y. Means for automatically controlling electric motors. No. 960,971; June 7; Sp. p. 1463; Gaz. vol. 155; p. 246.
Leonard, Harry W., Bronxville, N. Y. Resistance device. No. 977,456; Dec. 6; Sp. p. 58; Gaz. vol. 161; p. 12.
Leonard, Harry W., Bronxville, N. Y. Electric-motor-controlling apparatus. No. 978,173; Dec. 13; Sp. p. 1641; Gaz. vol. 161; p. 290.
Leonard, Harry W., Bronxville, N. Y. Electric-motor control. No. 979,078; Dec. 20; Sp. p. 3576; Gaz. vol. 161; p. 625.
Leonard, James E., Walla Walla, Wash. Railway-rail joint. No. 978,314; Dec. 13; Sp. p. 1949; Gaz. vol. 161; p. 340.
Leonard, John, and W. J. Oldaker, Chicago, Ill. Photographic apparatus. No. 967,025; Aug. 9; Sp. p. 2577; Gaz. vol. 157; p. 423.
Leonard, Leon E., Buffalo, assignor of four-fifths to E. H. Huber, Lockport, N. Y. Holding device for account files and registers. No. 956,113; Apr. 26; Sp. p. 5249; Gaz. vol. 153; p. 923.
Leonard, Lewis A., New York, and J. P. Larrimer, Brooklyn, N. Y. Producing a metal of high grade from a metal of low grade. No. 970,728; Sept. 20; Sp. p. 3401; Gaz. vol. 158; p. 583.
Leonard, Norris C., Nashville, Tenn. Embroidery-hoop. No. 955,415; Apr. 19; Sp. p. 3716; Gaz. vol. 153; p. 653.
Leonard, Ralph A., Edon, Ohio. Post-mold. No. 946,606; Jan. 18; Sp. p. 3567; Gaz. vol. 150; p. 600.
Leonard, Stephen R., assignor to Oneida Community, Limited, Oneida, N. Y. Fence-gate. No. 963,447; July 5; Sp. p. 970; Gaz. vol. 156; p. 145.
Leonard, Wilbur A., assignor of one-half to H. E. Adt, New Haven, Conn. Die-grinder. No. 976,270; Nov. 22; Sp. p. 4853; Gaz. vol. 160; p. 828.
Leonard, William C., Newark, N. J. Rack for boilers and the like. No. 972,879; Oct. 18; Sp. p. 2983; Gaz. vol. 159; p. 528.
Leonard, William H., assignor to The Denver Rock Drill & Machinery Company, Denver, Colo. Quick coupling. No. 974,501; Nov. 1; Sp. p. 979; Gaz. vol. 160; p. 145.
Leopold, Frederick B., Sewickley, Pa. Inlet-controller for liquids. No. 964,528; July 19; Sp. p. 3257; Gaz. vol. 156; p. 561.
Leopold, George O. (See Fegley and Leopold.)
Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Ratchet mechanism. No. 954,980; Apr. 12; Sp. p. 2810; Gaz. vol. 153; p. 476.
Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Lock for gearing. No. 955,815; Apr. 19; Sp. p. 4576; Gaz. vol. 153; p. 790.
Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Ball-bearing. No. 968,372; Aug. 23; Sp. p. 5399; Gaz. vol. 157; p. 931.
Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Ratchet mechanism for screw-drivers, &c. No. 977,957; Dec. 6; Sp. p. 1167; Gaz. vol. 161; p. 186.
Lépine, Robert, New York, N. Y. Shock-absorber. No. 954,526; Apr. 12; Sp. p. 1773; Gaz. vol. 153; p. 318.
Lepley, Daniel F., Connellsville, Pa. Safety apparatus for hoisting-engines. No. 949,022; Feb. 15; Sp. p. 2630; Gaz. vol. 151; p. 469.
Lepley, Daniel F., Connellsville, Pa. Safety apparatus for hoisting-engines. No. 949,023; Feb. 15; Sp. p. 2635; Gaz. vol. 151; p. 469.
Leppert, Frederick C. (See Eckert and Leppert.)
Leppert, Henry E., New Britain, assignor to The Hart Manufacturing Company, Hartford, Conn. Circuit-controller. No. 963,301; July 5; Sp. p. 681; Gaz. vol. 156; p. 96.
Leppert, Henry E., New Britain, assignor to The Hart Manufacturing Company, Hartford, Conn. Plug-switch. No. 969,787; Sept. 13; Sp. p. 1382; Gaz. vol. 158; p. 242.
Leppert, Robert C., Chicago, Ill. Accordion or concertina. No. 978,460; Dec. 13; Sp. p. 2249; Gaz. vol. 161; p. 390.
Leppzer, John F., and O. J. Lytle, McKeesport, Pa. Milk-can lock. No. 966,339; Aug. 2; Sp. p. 1022; Gaz. vol. 157; p. 165.
Lerner, Ernest R., and H. L. Bean, assignors to The Typewriter Printing Machine Company, Buffalo, N. Y. Duplicating-machine. No. 949,486; Feb. 15; Sp. p. 3575; Gaz. vol. 151; p. 623.
Lerner, Harry L., Chicago, Ill. Calculator. No. 962,441; June 28; Sp. p. 4647; Gaz. vol. 155; p. 820.
Lerro, Angelo R., Philadelphia, Pa. Seat attachment for barbers' chairs. No. 963,595; July 5; Sp. p. 1276; Gaz. vol. 156; p. 195.
Lerro, Angelo R., Philadelphia, Pa Burial-casket. No. 964,439; July 12; Sp. p. 3027; Gaz. vol. 156; p. 500.
Leschen, Henry, St. Louis, Mo. Wire rope. No. 975,541; Nov. 15; Sp. p. 3273; Gaz. vol. 160; p. 556.
Leschinski, Fritz, Philadelphia, Pa. Advertising device. No. 976,271; Nov. 22; Sp. p. 4855; Gaz. vol. 160; p. 828.
Lescure, Edward H., Harrisburg, assignor to The Pennsylvania Steel Company, Philadelphia, Pa. Bur-remover. No. 963,596; July 5; Sp. p. 1278; Gaz. vol. 156; p. 196.
Lesher, Emanuel G. (See Reinhart and Lesher.)
Lesher, Joseph H., Hynes, Cal. Game-counter. No. 951,375; Mar. 8; Sp. p. 1862; Gaz. vol. 152; p. 325.
Lesko, James F., Chicago, Ill. Detachable propelling mechanism. No. 947,643; Jan. 25; Sp. p. 5887; Gaz. vol. 150; p. 977.
Lesley, Frank E., assignor of one-half to C. S. Wilcox, St. Louis, Mo. Stove. No. 947,829; Feb. 1; Sp. p. 86; Gaz. vol. 151; p. 18.
Leslie, John F., Madison, Wis. Nailing-strip. No. 967,208; Aug. 16; Sp. p. 2961; Gaz. vol. 157; p. 513.

Alphabetical list of patentees—Continued.

Leslie, John L., Leslie, N. J. Loose-leaf binder. No. 950,769; Mar. 1; Sp. p. 664; Gaz. vol. 152; p. 106.
Lespérance, Joseph, Montreal, Quebec, Canada. Vapor generating apparatus for medical treatment. No. 969,485; Sept. 6; Sp. p. 703; Gaz. vol. 158; p. 112.
Lessells, Allan H., New Brighton, England. Non-magnetic compass. No. 963,597; July 5; Sp. p. 1281; Gaz. vol. 156; p. 196.
Lessing, Wilhelm, Troisdorf, Germany. Ore-briqueting. No. 952,914; Mar. 22; Sp. p. 5017; Gaz. vol. 152; p. 902.
Lestage, Frank T., New Haven, Conn. Combined box-opener and nail-puller. No. 948,230; Feb. 1; Sp. p. 922; Gaz. vol. 151; p. 151.
Lester, Edwin J., and W. G. Best, Clapham, England. Air-ship and aeroplane. No. 946,678; Jan. 18; Sp. p. 3722; Gaz. vol. 150; p. 623.
Lester, Harry B., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Cross-slide-operating mechanism. No. 957,224; May 10; Sp. p. 1575; Gaz. vol. 154; p. 278.
Lester Hydraulic Ram & Irrigation Company. (See Lester, John E., assignor.)
Lester, Irwin, Tuscola, Ill. Flexible tongue. No. 963,782; July 12; Sp. p. 1677; Gaz. vol. 156; p. 280.
Lester, Jerry, Alanson, Mich., and H. W. Humphrey, South Bend, Ind. Hinge. No. 974,682; Nov. 1; Sp. p. 1365; Gaz. vol. 160; p. 213.
Lester, John E., assignor to Lester Hydraulic Ram & Irrigation Company, Portland, Oreg. Hydraulic ram. No. 946,607; Jan. 18; Sp. p. 3568; Gaz. vol. 150; p. 600.
Leszczynsky, Anthony and S., Shenandoah, Pa. Combination-lock. No. 953,628; Mar. 29; Sp. p. 6555; Gaz. vol. 152; p. 1171.
Leszczynsky, Stany. (See Leszczynsky, Anthony and S.)
Letherbury, William V., Hagerstown, Md. Coffee and tea pot. No. 975,542; Nov. 15; Sp. p. 3275; Gaz. vol. 160; p. 556.
Letts, Arthur, *et al.* (See Smith, George A., assignor.)
Leuckert, William, assignor of one-half to C. S. Hoffman, New York, N. Y. Light-regulator for automobiles. No. 961,621; June 14; Sp. p. 2856; Gaz. vol. 155; p. 494.
Leuckert, William, assignor of one-half to C. S. Hoffman, New York, N. Y. Pressure-regulator. No. 963,376; July 5; Sp. p. 826; Gaz. vol. 156; p. 122.
Leuschner, Oswald, Brooklyn, N. Y. Parcel-handle. No. 967,531; Aug. 16; Sp. p. 3628; Gaz. vol. 157; p. 623.
Leuthesser, Fred W., Chicago, Ill. Name-register. No. 946,446; Jan. 11; Sp. p. 3243; Gaz. vol. 150; p. 521.
Leuthesser, Fred W., Chicago, Ill. Steam, air, and water trap valve. No. 946,970; Jan. 18; Sp. p. 4398; Gaz. vol. 150; p. 723.
Leuthesser, Fred W., Chicago, Ill. Air and water discharge valve for radiators. No. 953,629; Mar. 29; Sp. p. 6558; Gaz. vol. 152; p. 1171.
Leuthesser, Fred W., Chicago, Ill. Air and water discharge valve for radiators. No. 954,815; Apr. 12; Sp. p. 2445; Gaz. vol. 153; p. 418.
Leuthesser, Fred W., Chicago, Ill. Steam, air, and water trap valve. No. 960,972; June 7; Sp. p. 1467; Gaz. vol. 155; p. 246.
Levalley, Christopher W., Milwaukee, Wis. Razor-blade holder. No. 948,864; Feb. 8; Sp. p. 2286; Gaz. vol. 151; p. 389.
Levalley, Christopher W., Milwaukee, Wis. Safety-razor. No. 949,542; Feb. 15; Sp. p. 3698; Gaz. vol. 151; p. 642.
Levalley, Christopher W., Milwaukee, Wis. Safety-razor. No. 949,584; Feb. 15; Sp. p. 3777; Gaz. vol. 151; p. 657.
Levalley, Christopher W., Milwaukee, Wis. Razor-strop. No. 949,585; Feb. 15; Sp. p. 3778; Gaz. vol. 151; p. 657.
Levalley, Christopher W., Milwaukee, Wis. Nut-locking device. No. 967,790; Aug. 16; Sp. p. 4142; Gaz. vol. 157; p. 710.
Levalley, Christopher W., Milwaukee, Wis. Power-chain. No. 971,454; Sept. 27; Sp. p. 4866; Gaz. vol. 158; p. 853.
Levalley, Christopher W., Milwaukee, Wis. Shaft-hanger. No. 974,502; Nov. 1; Sp. p. 980; Gaz. vol. 160; p. 146.
Levalley, Christopher W., Milwaukee, Wis. Chain. No. 975,965; Nov. 15; Sp. p. 4134; Gaz. vol. 160; p. 699.
Levander, Charles W., Stromsburg, Nebr. Adjustable and reversible roof and ladder scaffolding-bracket. No. 960,565; June 7; Sp. p. 671; Gaz. vol. 155; p. 110.
Levavasseur, Léon M. J. C., assignor to La Société "Antoinette," Puteaux, France. Variable transmission mechanism for motor-vehicles. No. 952,433; Mar. 15; Sp. p. 3959; Gaz. vol. 152; p. 709.
Levedahl, Axel, Aurora, Ill., assignor to Aurora Automatic Machinery Company. Bicycle-frame. No. 946,143; Jan. 11; Sp. p. 2482; Gaz. vol. 150; p. 414.
Levedahl, Axel, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Handle for pneumatic drills. No. 972,548; Oct. 11; Sp. p. 2252; Gaz. vol. 159; p. 389.
Leveen, Swan J., and E. A. Martin, Rock Island, Ill., assignors, by mesne assignments, to Trio Manufacturing Company. Safety-fuse. No. 975,261; Nov. 8; Sp. p. 2674; Gaz. vol. 160; p. 432.
Leveillee, Raphael, Smithfield, R. I. Shedding mechanism. No. 964,034; July 12; Sp. p. 2221; Gaz. vol. 156; p. 366.
Levengood, George W., Lebanon, Pa. Temperature-indicating system. No. 966,224; Aug. 2; Sp. p. 817; Gaz. vol. 157; p. 130.
Levèque, Valérie, Fall River, Mass. Cotton-loom shuttle. No. 947,830; Feb. 1; Sp. p. 87; Gaz. vol. 151; p. 18.
Leverenz, William T. (See Call, Thomas J., assignor.)
Levering, Albert M., Philadelphia, Pa. Trolley-wheel. No. 954,312; Apr. 5; Sp. p. 1312; Gaz. vol. 153; p. 217.
Levering, Albert M., Philadelphia, Pa. Self-lubricating bearing for trolley-wheels. No. 960,354; June 7; Sp. p. 237; Gaz. vol. 155; p. 40.
Levering, Ernest D., Baltimore, Md. Mold for sash-weights. No. 953,999; Apr. 5; Sp. p. 629; Gaz. vol. 153; p. 112.
Levett, Frank M., New York, N. Y. Buffing or polishing wheel. No. 945,177; Jan. 4; Sp. p. 351; Gaz. vol. 150; p. 59.
Levett, Jay C. (See Bateman and Levett.)
Levett, Richard B., Philadelphia, Pa. Tool-holder. No. 968,776; Aug. 30; Sp. p. 6287; Gaz. vol. 157; p. 1097.
Levey, John, Chicago, Ill. Compressor. No. 977,662; Dec. 6; Sp. p. 547; Gaz. vol. 161; p. 83.
Levey, John, assignor to J. Williamson, Chicago, Ill. Valve. No. 955,600; Apr. 19; Sp. p. 4119; Gaz. vol. 153; p. 717.
Levey, John, assignor to J. Williamson, Chicago, Ill. Grate. No. 965,589; July 26; Sp. p. 5616; Gaz. vol. 156; p. 956.
Levey, Marshall T., Indianapolis, Ind. Check-book. No. 956,861; May 3; Sp. p. 788; Gaz. vol. 154; p. 125.
Levey, Thomas J., Washington, D. C., assignor of one-fifth to J. B. Shearer, one-fifth to L. T. Hewitt, Baltimore county, one-fifth to J. McVeity, Baltimore, Md., and one-fifth to M. Nilsson, Peekskill, N. Y. Power-transmitting device. No. 974,402; Nov. 1; Sp. p. 721; Gaz. vol. 160; p. 110.
Levi, Alvan P., H. and M. Schlessinger, San Francisco, Cal. Telephone-mouthpiece attachment. No. 972,114; Oct. 4; Sp. p. 1297; Gaz. vol. 159; p. 219.
Levi, Harry F., Pittsburg, Pa. Lace-fastener. No. 975,139; Nov. 8; Sp. p. 2405; Gaz. vol. 160; p. 391.
Levi, Isaac W., New York, N. Y. Display-box. No. 968,245; Aug. 23; Sp. p. 5149; Gaz. vol. 157; p. 886.
Levi, Isidor, Anniston, Ala. Bottle-label. No. 946,517; Jan. 11; Sp. p. 3407; Gaz. vol. 150; p. 546.
Levi, Louis E. (See Schroeder, Levi, and Lasche.)
Levi, Louis S., Reading, Pa. Ventilator. No. 965,916; Aug. 2; Sp. p. 144; Gaz. vol. 157; p. 25.
Levin, Asher, Baltimore, Md. Sponge-cloth wringer. No. 951,689; Mar. 8; Sp. p. 2479; Gaz. vol. 152; p. 430.
Levin, Benjamin J., South Amboy, N. J. Cover for receptacles. No. 962,710; June 28; Sp. p. 5225; Gaz. vol. 155; p. 913.
Levin, David R., Chicago, Ill. Means for removing covers. No. 975,698; Nov. 15; Sp. p. 3603; Gaz. vol. 160; p. 607.
Levin, Isaac, Brooklyn, N. Y. Garment-form. No. 968,169; Aug. 23; Sp. p. 4991; Gaz. vol. 157; p. 860.
Levin, Judel, Philadelphia, Pa. Automatic vending-machine. No. 945,178; Jan. 4; Sp. p. 352; Gaz. vol. 150; p. 59.
Levin, Nils D., Columbus, Ohio. Cutter-chain. No. 945,335; Jan. 4; Sp. p. 724; Gaz. vol. 150; p. 111.
Levin, Nils D., Chicago, Ill. Drilling-machine. No. 958,814; May 24; Sp. p. 5215; Gaz. vol. 154; p. 880.
Levin, Nils D., assignor to Goodman Manufacturing Company, Chicago, Ill. Rack-rail-braking car. No. 960,355; June 7; Sp. p. 238; Gaz. vol. 155; p. 41.
Levin, Samuel, Highland Park, Ill. Stylus for sound-reproducing machines. No. 958,412; May 17; Sp. p. 4391; Gaz. vol. 154; p. 717.
Levinsohn, Eva. (See Levinsohn, Louis N., assignor.)
Levinsohn, Louis N., assignor to E. Levinsohn, New York, N. Y. Safety-razor. No. 977,889; Dec. 6; Sp. p. 1021; Gaz. vol. 161; p. 162.
Levinson, Herman M., assignor of one-half to A. M. Walthall, El Paso, Tex. Railway-tie. No. 948,589; Feb. 8; Sp. p. 1716; Gaz. vol. 151; p. 297.
Levison, Wallace G., Brooklyn, N. Y. Apparatus for detecting and exhibiting the fluorescence of fluorescent substances. No. 947,246; Jan. 25; Sp. p. 4936; Gaz. vol. 150; p. 841.
Levkowicz, Marcus W., San Francisco, Cal. Saliva-ejector. No. 950,109; Feb. 22; Sp. p. 4949; Gaz. vol. 151; p. 871.
Levray, Oscar C., Calais, France. Apparatus for cutting or shaving loose threads off tulle, lace, embroidery, and the like. No. 946,904; Jan. 18; Sp. p. 4270; Gaz. vol. 150; p. 701.
Levy, Abram D., Cleveland, Ohio. Switch-box structure. No. 979,011; Dec. 20; Sp. p. 3440; Gaz. vol. 161; p. 604.
Levy, Bernard. (See Ullberg and Levy.)
Levy, Bernard, Riverside, N. J., assignor, by mesne assignments, to The Keystone Watch Case Company, Philadelphia, Pa. Watchcase-bow. No. 971,053; Sept. 27; Sp. p. 4081; Gaz. vol. 158; p. 722.
Levy, Firm of Henri. (See Berger, Ernst, assignor.)
Levy, Henri G., San Francisco, Cal. Electric sad-iron. No. 962,768; June 28; Sp. p. 5345; Gaz. vol. 155; p. 934.
Levy, Jacob, New York, N. Y. Pipe-strainer. No. 960,649; June 7; Sp. p. 841; Gaz. vol. 155; p. 138.
Levy, Lazarus and W., New York, N. Y. Trousers. No. 967,209; Aug. 16; Sp. p. 2962; Gaz. vol. 157; p. 513.
Levy, Max. (See Ciolfi, Antonino, assignor.)
Lévy, René J. (See Claude and Lévy.)

Alphabetical list of patentees—Continued.

Lévy, Réne J., Manchester, England, and A. Helbronner, Paris, France. Separation of gases, &c. No. 959,563; May 31; Sp. p. 6800; Gaz. vol. 154; p. 1157.

Lévy, René J., and A. Helbronner, assignors to La Société l'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude), Paris, France. Separation of gases from their mixtures. No. 957,170; May 3; Sp. p. 1427; Gaz. vol. 154; p. 229.

Levy, William. (See Levy, Lazarus and W.)

Lewandowski, Andrew, Bay City, Mich. Window-lock. No. 954,638; Apr. 12; Sp. p. 2025; Gaz. vol. 153; p. 356.

Lewery, Leonard J. (See Hefter, Michel, assignor.)

Lewin, Marcus, Cincinnati, Ohio. Pocket for garments. No. 955,649; Apr. 19; Sp. p. 4233; Gaz. vol. 153; p. 733.

Lewinson, Hyman, Pittsburg, Pa. Self-filling fountain-pen. No. 964,982; July 19; Sp. p. 4306; Gaz. vol. 156; p. 719.

Lewis, Albert F., Urbana, Ohio. Draft-regulator for furnaces. No. 977,663; Dec. 6; Sp. p. 550; Gaz. vol. 161; p. 83.

Lewis, Archer, Lewisham, near Sydney, assignor to The Lewis Automatic Coupling Company Limited, Sydney, New South Wales, Australia. Railway-coupling. No. 948,765; Feb. 8; Sp. p. 2103; Gaz. vol. 151; p. 357.

Lewis Automatic Coupling Company Limited, The. (See Lewis, Archer, assignor.)

Lewis, Benjamin F., assignor of one-third to J. G. Satter, Pittsburg, Pa. Penholder. No. 974,578; Nov. 1; Sp. p. 1154; Gaz. vol. 160; p. 175.

Lewis, Charles, assignor of one-half to H. Wegman, Auburn, N. Y. Tire-inflating pump. No. 975,774; Nov. 15; Sp. p. 3759; Gaz. vol. 160; p. 633.

Lewis, Charles A., assignor of one-half to F. T. Lewis, Denver, Colo. Rotary swing. No. 946,639; Jan. 18; Sp. p. 3643; Gaz. vol. 150; p. 610.

Lewis, Charles F., New York, N. Y. Electric switch. No. 964,798; July 19; Sp. p. 3944; Gaz. vol. 156; p. 655.

Lewis, Charles H., White Earth, N. D. Neck-yoke holder for wagon-tongues. No. 960,566; June 7; Sp. p. 673; Gaz. vol. 155; p. 110.

Lewis, Charles W., New York, N. Y., assignor to The Thompson and Norris Company. Box structure. No. 951,136; Mar. 8; Sp. p. 1367; Gaz. vol. 152; p. 248.

Lewis, Douglas, Renton, Wash., assignor to The Ceramic Supply & Construction Company, Columbus, Ohio. Screen. No. 975,441; Nov. 15; Sp. p. 3042; Gaz. vol. 160; p. 520.

Lewis, Edward, Youngstown, and F. H. Nullmeyer, Struthers, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Wire-clamping mechanism. No. 969,546; Sept. 6; Sp. p. 851; Gaz. vol. 158; p. 134.

Lewis, Edward C., *et al.* (See Smith, Fred P., assignor.)

Lewis, Edward Z., assignor to The General Manifold and Printing Company, Franklin, Pa. Sales-check. No. 972,549; Oct. 11; Sp. p. 2253; Gaz. vol. 159; p. 389.

Lewis, Edward Z., assignor to The General Manifold and Printing Company, Franklin, Pa. Manifolding record-book. No. 972,550; Oct. 11; Sp. p. 2255; Gaz. vol. 159; p. 389.

Lewis, Edward Z., Chicago, Ill., assignor to The General Manifold and Printing Company, Franklin, Pa. Manifolding salesman's check. No. 972,551; Oct. 11; Sp. p. 2257; Gaz. vol. 159; p. 389.

Lewis, Elwin S., Jr., assignor of one-half to E. S. Lewis, Sr., Denver, Colo. Alarm attachment for brake-valves. No. 966,694; Aug. 9; Sp. p. 1829; Gaz. vol. 157; p. 312.

Lewis, Elwin S., Sr. (See Lewis, Elwin S., Jr., assignor.)

Lewis, Fay J. (See Rhodes, George D., assignor.)

Lewis, Frank B., Jr., assignor to Poultry Dust Bath Company, Whiting, Ind. Poultry-hook. No. 970,840; Sept. 20; Sp. p. 3657; Gaz. vol. 158; p. 625.

Lewis, Frederick T. (See Lewis, Charles A., assignor.)

Lewis, George, Newark, N. J. Dynamo-electric generator. No. 948,817; Feb. 8; Sp. p. 2211; Gaz. vol. 151; p. 374.

Lewis, George C. (See Warnock and Lewis.)

Lewis, George E., Jamestown, N. Y. Egg-separator. No. 966,933; Aug. 9; Sp. p. 2380; Gaz. vol. 157; p. 390.

Lewis, George F., *et al.* (See Bell, Dillwyn M., assignor.)

Lewis, George F., Franklin, Tex. Feed-pan for poultry. No. 948,014; Feb. 1; Sp. p. 486; Gaz. vol. 151; p. 79.

Lewis, George G., Syracuse, N. Y. Hot-air register. No. 966,842; Aug. 9; Sp. p. 2195; Gaz. vol. 157; p. 361.

Lewis, George L., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Means for forcing wires into the grooves of wheels. No. 969,067; Aug. 30; Sp. p. 6868; Gaz. vol. 157; p. 1195.

Lewis, George S., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Firearm. No. 952,206; Mar. 15; Sp. p. 3515; Gaz. vol. 152; p. 632.

Lewis, George S., and W. M. Farrow, Jr., Washington, D. C.; said Farrow assignor of three-tenths to said Lewis. Pin-spotter. No. 955,416; Apr. 19; Sp. p. 3718; Gaz. vol. 153; p. 653.

Lewis, George W., Portsmouth, Va. Journal-box. No. 946,237; Jan. 11; Sp. p. 2701; Gaz. vol. 150; p. 449.

Lewis, George W., Scranton, Pa., assignor to S. H. Baird, New York, N. Y. Making cores of sand. No. 960,973; June 7; Sp. p. 1472; Gaz. vol. 155; p. 247.

Lewis, Herman J. S., and J. F. Reynolds, New York, N. Y. Dust-remover. No. 971,054; Sept. 27; Sp. p. 4082; Gaz. vol. 158; p. 722.

Lewis J. Miller Company. (See Miller, Lewis J., assignor.)

Lewis, James E., Steelton, Pa. Railway-frog. No. 955,887; Apr. 26; Sp. p. 5775; Gaz. vol. 153; p. 845.

Lewis, John H., Joplin, Mo. Composition of matter for repair of pneumatic tires. No. 961,144; June 14; Sp. p. 1820; Gaz. vol. 155; p. 330.

Lewis, John H., Mount Vernon, Wash. Wire-stretcher. No. 974,403; Nov. 1; Sp. p. 726; Gaz. vol. 160; p. 110.

Lewis, John W., Neffs, Ohio. Tongs. No. 967,791; Aug. 16; Sp. p. 4143; Gaz. vol. 157; p. 710.

Lewis and Kitchen. (See Smith, Fred P., assignor.)

Lewis & Leeder. (See Leeder, Francis T., assignor.)

Lewis, Lester L. (See Musser, Ora C., assignor.)

Lewis, Lloyd V., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric-motor control. No. 967,210; Aug. 16; Sp. p. 2963; Gaz. vol. 157; p. 513.

Lewis, Lola, Dawson, Tex. Churn-top. No. 947,922; Feb. 1; Sp. p. 298; Gaz. vol. 151; p. 50.

Lewis, Lorenzo D., Adams, N. Y. Can-cover. No. 963,598; July 5; Sp. p. 1282; Gaz. vol. 156; p. 196.

Lewis, Lorenzo D., Adams, N. Y. Apparatus for preserving milk. No. 964,983; July 19; Sp. p. 4307; Gaz. vol. 156; p. 719.

Lewis, Lorenzo D., assignor of one-third to G. B. Kellogg and one-third to C. S. Kellogg, Adams, N. Y. Apparatus for making boxes. No. 971,455; Sept. 27; Sp. p. 4869; Gaz. vol. 158; p. 853.

Lewis, Melville O., Peoria, Ill. Device for handling flue-cleaners. No. 977,411; Nov. 29; Sp. p. 7360; Gaz. vol. 160; p. 1245.

Lewis, Phillip P., Chicago, Ill. Railway-crossing. No. 957,225; May 10; Sp. p. 1577; Gaz. vol. 154; p. 278.

Lewis Publishing Company, The. (See Zolnay, George J., assignor.)

Lewis, Robert, Norwood, Pa. Jam-nut. No. 965,202; July 26; Sp. p. 4753; Gaz. vol. 156; p. 822.

Lewis, Robert B., assignor to American Metal Edge Box Company, Philadelphia, Pa. Machine for setting and forming metallic fasteners. No. 959,020; May 24; Sp. p. 5649; Gaz. vol. 154; p. 950.

Lewis, Robert S., and J. H. Moore, McGill, Nev. Settling-tank. No. 973,357; Oct. 18; Sp. p. 4061; Gaz. vol. 159; p. 695.

Lewis, Samuel W., New York, N. Y. Flushing-valve. No. 947,183; Jan. 18; Sp. p. 4796; Gaz. vol. 150; p. 790.

Lewis, Samuel W., New York, N. Y., assignor to Thomas Maddock's Sons Company, Trenton, N. J. Water-closet. No. 972,388; Oct. 11; Sp. p. 1890; Gaz. vol. 159; p. 332.

Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Mouth-illuminator. No. 978,910; Dec. 20; Sp. p. 3192; Gaz. vol. 161; p. 567.

Lewis, Walter S., San Francisco, Cal. Hat-fastener. No. 972,552; Oct. 11; Sp. p. 2259; Gaz. vol. 159; p. 390.

Lewis, Wilfred, Philadelphia, Pa., assignor to The Tabor Manufacturing Company, Camden, N. J. Molding-machine. No. 950,234; Feb. 22; Sp. p. 5222; Gaz. vol. 151; p. 915.

Lewis, Wilfred, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding-machine. No. 951,953; Mar. 15; Sp. p. 3039; Gaz. vol. 152; p. 550.

Lewis, Wilfred, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding-machine. No. 961,702; June 14; Sp. p. 3091; Gaz. vol. 155; p. 520.

Lewis, Wilfred, and J. T. Ramsden, Philadelphia, Pa., assignors to The Tabor Manufacturing Company, Camden, N. J. Molding-machine. No. 960,974; June 7; Sp. p. 1473; Gaz. vol. 155; p. 247.

Lewis, Wilfred, and L. Tabor, assignors to The Tabor Manufacturing Company, Philadelphia, Pa. Equalizing-support for molders' flasks. No. 964,440; July 12; Sp. p. 3028; Gaz. vol. 156; p. 500.

Lewis, Willard I., Walpole, Mass. Automatic web-guiding device. No. 973,945; Oct. 25; Sp. p. 5303; Gaz. vol. 159; p. 921.

Lewis, William G., Chicago, Ill. Window-ventilator. No. 950,180; Feb. 22; Sp. p. 5103; Gaz. vol. 151; p. 895.

Lewis, William L., *et al.* (See De Lukacsevics, Charles, assignor.)

Lewthwaite, Thomas H., New York, N. Y. Holder for punches and the like. No. 964,922; July 19; Sp. p. 4193; Gaz. vol. 156; p. 699.

Lewy, Charles H., assignor to B. Sterne and H. L. Klein, Chicago, Ill. Adjusting device for petticoat-bands. No. 970,068; Sept. 13; Sp. p. 2005; Gaz. vol. 158; p. 340.

Ley, Adolph A., Akron, Ohio. Vehicle-rim. No. 959,236; May 24; Sp. p. 6113; Gaz. vol. 154; p. 1022.

Ley, Matthias, Grevenmacher, Luxemburg. Pump for wine and similar liquids. No. 950,770; Mar. 1; Sp. p. 667; Gaz. vol. 152; p. 106.

Leyner, John G., Denver, assignor to The J. Geo. Leyner Engineering Works Company, Littleton, Colo. Cylinder lubrication. No. 958,260; May 17; Sp. p. 3938; Gaz. vol. 154; p. 663.

Alphabetical list of patentees—Continued.

Leyson, Sackville G., assignor of forty-nine one-hundredths to E. S. Nutting, Syracuse, N. Y. Toy. No. 968,373; Aug. 23; Sp. p. 5401; Gaz. vol. 157; p. 932.
Liaci, Cosmo, New Haven, Conn. Safety attachment for gas-burners. No. 948,334; Feb. 8; Sp. p. 1149; Gaz. vol. 151; p. 211.
Lian, Andrew, Aurora, Ill. Vestibule-curtain catch. No. 954,866; Apr. 12; Sp. p. 2572; Gaz. vol. 153; p. 437.
Libbey, Frank O. (See Guernsey, Charles C., assignor.)
Libbing, Louis J., Fort Wayne, Ind. Penholder. No. 968,575; Aug. 30; Sp. p. 5834; Gaz. vol. 157; p. 1028.
Libby, Albion D. T., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 959,765; May 31; Sp. p. 7207; Gaz. vol. 154; p. 1223.
Libby, Albion D. T., assignor to The Dean Electric Company, Elyria, Ohio. Central telephone system. No. 972,628; Oct. 11; Sp. p. 2446; Gaz. vol. 159; p. 416.
Libby, Charles I., Sanford, Me. Pruning implement. No. 948,231; Feb. 1; Sp. p. 923; Gaz. vol. 151; p. 151.
Libby, Charles L., Indianapolis, Ind. Tool-support for lathes. No. 957,783; May 10; Sp. p. 2729; Gaz. vol. 154; p. 467.
Libby, Charles L., Indianapolis, Ind. Turret-feed stop for lathes. No. 968,374; Aug. 23; Sp. p. 5402; Gaz. vol. 157; p. 932.
Libby, Charles R., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 968,576; Aug. 30; Sp. p. 5835; Gaz. vol. 157; p. 1029.
Libby, Charles R., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Carrier for cable-carrier apparatus. No. 978,174; Dec. 13; Sp. p. 1652; Gaz. vol. 161; p. 290.
Libby, Dorville, Jr., assignor to The Pelton Water Wheel Company, San Francisco, Cal. Operating means for gate-valves. No. 954,446; Apr. 12; Sp. p. 1583; Gaz. vol. 153; p. 290.
Libby, Dorville, Jr., assignor to The Pelton Water Wheel Company, San Francisco, Cal. Means for controlling the valve movement of gate-valves. No. 963,230; July 5; Sp. p. 511; Gaz. vol. 156; p. 72.
Libby, Ernest L., and G. B. Davis, Linn Creek, Mo. Nutlock. No. 979,177; Dec. 20; Sp. p. 3836; Gaz. vol. 161; p. 663.
Libby, Harry L. (See Roche, Francis J., assignor.)
Libby, Sam H., East Orange, N. J., assignor to Sprague Electric Company. Conveyer system. No. 947,200; Jan. 18; Sp. p. 4829; Gaz. vol. 150; p. 796.
Libert, Arthur. (See Roberts and Libert.)
Liberty, Antoine J., Detroit, Mich. Lubricating system for engines. No. 952,824; Mar. 22; Sp. p. 4844; Gaz. vol. 152; p. 872.
Liberty Manufacturing Company, The. (See Jamison, Robert G., assignor.)
Liberty Manufacturing Company. (See Van Ormer, Herman, assignor.)
Liberty Trust Company, trustee. (See Henrici, William A. E., assignor.)
Libison, Nicholas, Homestead, Pa. Spring-trap. No. 946,608; Jan. 18; Sp. p. 3572; Gaz. vol. 150; p. 601.
Library Bureau. (See Hunter, David E., assignor.)
Library Bureau. (See Mehl, Walter B., assignor.)
Lichtenberg, Erich H. (See Kent and Lichtenberg.)
Lichtenberg, Erich H., Chicago, Ill., assignor of one-half to H. B. Burr, Milwaukee, Wis. Anchor for guy-wires, &c. No. 975,543; Nov. 15; Sp. p. 3276; Gaz. vol. 160; p. 556.
Lichtenberger, George A., *et al.* (See Broomell, Thomas W., assignor.)
Lichtenstein, Harry M. (See English and Lichtenstein.)
Lichtenstein, Julius, Leipzig, Germany. Sledge. No. 966,454; Aug. 9; Sp. p. 1290; Gaz. vol. 157; p. 231.
Lichtenstein, Ludwig, Königinhof-on-the-Elbe, Austria-Hungary. Fixing sulfid colors. No. 960,975; June 7; Sp. p. 1475; Gaz. vol. 155; p. 248.
Lichtenstein, Solomon K., trustee. (See Lispenard, George, assignor.)
Lichter, John J., St. Louis, Mo. Door for runway-openings. No. 961,622; June 14; Sp. p. 2858; Gaz. vol. 155; p. 494.
Lichtwald, Robert C., Decatur, Nebr. End-gate. No 977,457; Dec. 6; Sp. p. 63; Gaz. vol. 161; p. 13.
Lichty, Frank J., Rockford, Ohio. Fence. No. 947,556; Jan. 25; Sp. p. 5700; Gaz. vol. 150; p. 946.
Lichty, Frank J., Rockford, Ohio. Corn harvesting and husking machine. No. 966,029; Aug. 2; Sp. p. 404; Gaz. vol. 157; p. 64.
Lichty, Howard F., Creston, Iowa. Cigar tip-cutter and lighter. No. 964,171; July 12; Sp. p. 2503; Gaz. vol. 156; p. 411.
Liddle, Robert B., Minaville, N. Y. Trousers-stretcher. No. 948,734; Feb. 8; Sp. p. 2021; Gaz. vol. 151; p. 346.
Lidgerwood Manufacturing Company. (See Beekman, John V., assignor.)
Lidgerwood Manufacturing Company. (See Covell, Harry N., assignor.)
Lidgerwood Manufacturing Company. (See Dickinson and Gilchrist, assignors.)
Lidgerwood Manufacturing Company. (See Schoen, Frederick C., assignor.)

Lieb, Charles A., New York, N. Y. Spring. No. 945,336; Jan. 4; Sp. p. 725; Gaz. vol. 150; p. 111.
Lieb, Charles A., New York, N. Y. Vehicle-spring. No. 945,725; Jan. 4; Sp. p. 1555; Gaz. vol. 150; p. 240.
Lieb, Charles A., New York, N. Y. Automobile-tire. No. 968,777; Aug. 30; Sp. p. 6288; Gaz. vol. 157; p. 1097.
Lieb, Edward O. (See Parker and Lieb.)
Liebeck, Harry, Philadelphia, Pa., assignor to Scott Paper Company. Machine for making toilet-paper rolls. No. 954,527; Apr. 12; Sp. p. 1774; Gaz. vol. 153; p. 318.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Engineer's valve. No. 952,434; Mar. 15; Sp. p. 3961; Gaz. vol. 152; p. 709.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Motor-compressor. No. 961,085; June 7; Sp. p. 1712; Gaz. vol. 155; p. 284.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Pulverizing-mill. No. 966,843; Aug. 9; Sp. p. 2196; Gaz. vol. 157; p. 361.
Liebermann, Joseph M., New York, N. Y. Corset. No. 963,026; June 28; Sp. p. 5831; Gaz. vol. 155; p. 1021.
Liebert, Constantin, Warsaw, and W. Liebert, Moscow, Russia. Rotary file-cabinet. No. 957,784; May 10; Sp. p. 2730; Gaz. vol. 154; p. 467.
Liebert, Waclaw. (See Liebert, Constantin and W.)
Liebknecht, Otto, assignor to Deutsche Gold- & Silber-Scheide-Anstalt vormals Rössler, Frankfort-on-the-Main, Germany. Manufacture of indigo leuco bodies. No. 963,377; July 5; Sp. p. 828; Gaz. vol. 156; p. 122.
Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Making hydrocyanic acid. No. 967,943; Aug. 23; Sp. p. 4455; Gaz. vol. 157; p. 784.
Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Making sodium cyanid. No. 969,885; Sept. 13; Sp. p. 1606; Gaz. vol. 158; p. 277.
Liechty, Hermann, Berne, Switzerland. Locomotive. No. 970,512; Sept. 20; Sp. p. 2916; Gaz. vol. 158; p. 509.
Liederman, Isadore, *et al.* (See Passman, Abraham, assignor.)
Liederman, Jacob H., *et al.* (See Passman, Abraham, assignor.)
Liegandt, Karl, New York, N. Y. Machine for grinding and polishing lenses. No. 968,246; Aug. 23; Sp. p. 5150; Gaz. vol. 157; p. 887.
Lien, Carl H., assignor of one-half to G. J. Coughlin, Columbus, N. D. Mop head and wringer. No. 965,472; July 26; Sp. p. 5341; Gaz. vol. 156; p. 914.
Lierman, Augusta, executrix. (See Lierman, Frank W.)
Lierman, Frank W., deceased, Milwaukee, Wis.; A. Lierman, executrix. Power-generating apparatus. No. 964,923; July 19; Sp. p. 4195; Gaz. vol. 156; p. 700.
Liers, Fritz, Rummelsburg, near Berlin, Germany. Lock. No. 971,763; Oct. 4; Sp. p. 532; Gaz. vol. 159; p. 93.
Liers, Fritz, Rummelsburg, near Berlin, Germany. Lock-strike. No. 973,358; Oct. 18; Sp. p. 4063; Gaz. vol. 159; p. 696.
Liesner, Frank J. B., assignor of one-half to J. Mathias, Hamilton, Ohio. Garment-clasp. No. 978,762; Dec. 13; Sp. p. 2909; Gaz. vol. 161; p. 492.
Life, Jacob, Ridgeville, Ind. Churn. No. 966,455; Aug. 9; Sp. p. 1291; Gaz. vol. 157; p. 231.
Life, Jacob, assignor of one-half to L. Life, Ridgeville, Ind. Wire-fastener. No. 959,766; May 31; Sp. p. 7210; Gaz. vol. 154; p. 1224.
Life, Lewis. (See Life, Jacob, assignor.)
Light, Arthur H., Los Angeles, Cal. Oil-burner. No. 965,719; July 26; Sp. p. 5889; Gaz. vol. 156; p. 1000.
Light, Arthur H., assignor to A. H. Light Engineering Company, Los Angeles, Cal. Oil-burner. No. 959,363; May 24; Sp. p. 6359; Gaz. vol. 154; p. 1064.
Light, Arthur H., assignor to A. H. Light Engineering Company, Los Angeles, Cal. Oil-burner. No. 959,364; May 24; Sp. p. 6363; Gaz. vol. 154; p. 1064.
Light, Arthur S., Rochester, N. Y. Vacuum radiator-valve. No. 951,404; Mar. 8; Sp. p. 1930; Gaz. vol. 152; p. 334.
Light, Samuel E., assignor to W. H. McCurdy and J. D. Craft, Evansville, Ind. Vehicle-body. No. 969,293; Sept. 6; Sp. p. 298; Gaz. vol. 158; p. 49.
Lightbody, Frank J., Watertown, assignor to Cambridge Novelty Company, Cambridge, Mass. Coin-holder. No. 976,191; Nov. 22; Sp. p. 4639; Gaz. vol. 160; p. 798.
Lightbody, Thomas, Youngstown, Ohio. Car-unloader. No. 972,700; Oct. 11; Sp. p. 2580; Gaz. vol. 159; p. 440.
Lightcap, Isaac, Rocksburg, N. J. Pipe-line system. No. 973,794; Oct. 25; Sp. p. 4995; Gaz. vol. 159; p. 868.
Lightening Detachable Rubber Heel Co. (See Rouse, Frank L., assignor.)
Lightfoot, Edwin N., Philadelphia, Pa., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Resistance unit. No. 947,247; Jan. 25; Sp. p. 4941; Gaz. vol. 150; p. 842.
Lightfoot, James W., Loraine, Tex. Folding poultry-crate. No. 954,981; Apr. 12; Sp. p. 2811; Gaz. vol. 153; p. 476.
Lightfoot, William E. (See Oulton, Ablett, and Lightfoot.)
Lighthouse, John C., Rochester, N. Y. Wheel. No. 969,886; Sept. 13; Sp. p. 1607; Gaz. vol. 158; p. 277.

Alphabetical list of patentees—Continued.

Lighthouse, John C., Rochester, N. Y. Wheel. No. 969,887; Sept. 13; Sp. p. 1609; Gaz. vol. 158; p. 277.
Lighthouse, John C., Rochester, N. Y. Wheel and tire. No. 969,888; Sept. 13; Sp. p. 1610; Gaz. vol. 158; p. 278.
Lighthouse, John C., Rochester, N. Y. Sectional wheel-tire. No. 969,889; Sept. 13; Sp. p. 1612; Gaz. vol. 158; p. 278.
Lighthouse, John C., Rochester, N. Y. Wheel-tire. No. 969,890; Sept. 13; Sp. p. 1614; Gaz. vol. 158; p. 278.
Lightning Valve and Dredge Company. (See Shade, Theodore, assignor.)
Ligon, Harry W., Atlanta, Ga. Cotton-ginning machine. No. 952,825; Mar. 22; Sp. p. 4847; Gaz. vol. 152; p. 872.
Likewise, Charles H., assignor of one-third to N. A. Schneider, Brooklyn, N. Y. Safety-razor. No. 974,083; Oct. 25; Sp. p. 5587; Gaz. vol. 159; p. 968.
Liles, William W., St. Louis, Mo. Moving sign. No. 957,352; May 10; Sp. p. 1851; Gaz. vol. 154; p. 322.
Liles, William W., Mineral Wells, Tex. Churn-body. No. 978,763; Dec. 13; Sp. p. 2910; Gaz. vol. 161; p. 492.
Liles, William W., Mineral Wells, Tex. Churn. No. 979,974; Dec. 27; Sp. p. 5521; Gaz. vol. 161; p. 954.
Liles, William W., Mineral Wells, Tex. Churn-dasher. No. 980,107; Dec. 27; Sp. p. 5833; Gaz. vol. 161; p. 998.
Lilienfeld, Leon, Vienna, Austria-Hungary. Compound for producing silk-like effects. No. 960,100; May 31; Sp. p. 7972; Gaz. vol. 154; p. 1336.
Liljeros, Carl O., Clifton, N. J. Knockdown elevator. No. 961,782; June 21; Sp. p. 3185; Gaz. vol. 155; p. 572.
Lill, John. (See Braham and Lill.)
Lilland, Severin, Jewell Junction, Iowa. Combined whip lock and socket. No. 947,716; Jan. 25; Sp. p. 6011; Gaz. vol. 150; p. 1001.
Lilley, Lial, Stratford, New Zealand. Angle-bracket. No. 973,674; Oct. 25; Sp. p. 4756; Gaz. vol. 159; p. 827.
Lilley, Simeon, Deepwater, Mo. Means for igniting fuses. No. 963,161; July 5; Sp. p. 339; Gaz. vol. 156; p. 48.
Lillibridge, Curtis C., Shattuck, Okla. Oil-gas burner. No. 956,114; Apr. 26; Sp. p. 5251; Gaz. vol. 153; p. 924.
Lillie, Edger U., Guthrie Center, Iowa. Mail-box holder. No. 969,965; Sept. 13; Sp. p. 1784; Gaz. vol. 158; p. 303.
Lillie, Samuel M., Philadelphia, Pa. Multiple-effect evaporating apparatus. No. 948,376; Feb. 8; Sp. p. 1256; Gaz. vol. 151; p. 227.
Lillie, Samuel M., Philadelphia, Pa. Converting starch into derivatives, dextrin, dextrose, &c. No. 959,237; May 24; Sp. p. 6115; Gaz. vol. 154; p. 1022.
Lillie, Samuel M., Philadelphia, Pa. Evaporating apparatus. No. 972,880; Oct. 18; Sp. p. 2985; Gaz. vol. 159; p. 529.
Lillie, Samuel M., Philadelphia, Pa. Apparatus for evaporating solutions. No. 980,108; Dec. 27; Sp. p. 5834; Gaz. vol. 161; p. 998.
Lilliehöök, Carl J. F. M., Stockholm, Sweden, assignor, by mesne assignments, to E. I. B. Craggs, Middlesbrough, England. Ship or vessel. No. 975,699; Nov. 15; Sp. p. 3604; Gaz. vol. 160; p. 608.
Lilljquist, Andrew, Syracuse, N. Y. Grinding-machine. No. 975,966; Nov. 15; Sp. p. 4137; Gaz. vol. 160; p. 699.
Lilly, George E., and G. H. Hartmann, New York, N. Y. Ironing-board. No. 971,857; Oct. 4; Sp. p. 734; Gaz. vol. 159; p. 128.
Lillyman, Olof H., Potlatch, Idaho. Inlet-valve and water-screen for pumps. No. 954,313; Apr. 5; Sp. p. 1313; Gaz. vol. 153; p. 217.
Lima, Arne, Hannaford, N. D. Device for destroying bugs. No. 973,359; Oct. 18; Sp. p. 4064; Gaz. vol. 159; p. 696.
Lima Locomotive and Machine Company. (See Wall and Shepard, assignors.)
Lima, Manuel, Melrose, Cal. Door-hanger. No. 971,906; Oct. 4; Sp. p. 855; Gaz. vol. 159; p. 146.
Limbach, George, New York, N. Y. Horseshoe. No. 957,691; May 10; Sp. p. 2529; Gaz. vol. 154; p. 437.
Limberg, John F., and F. Koelling, Matson, Mo. Rail-spike. No. 963,027; June 28; Sp. p. 5832; Gaz. vol. 155; p. 1021.
Limbert, John W., Akron, Ohio. Sad-iron. No. 967,138; Aug. 9; Sp. p. 2818; Gaz. vol. 157; p. 462.
Limmer, John, St. Louis, Mo. Bread-labeling device. No. 959,767; May 31; Sp. p. 7211; Gaz. vol. 154; p. 1224.
Limoges, Louis, Montreal, Quebec, Canada. Smoke-consumer. No. 964,662; July 19; Sp. p. 3559; Gaz. vol. 156; p. 609.
Limpus, Addie M., Carlton, Oreg. Book-holder. No. 965,720; July 26; Sp. p. 5892; Gaz. vol. 156; p. 1001.
Lincoln, Clinton E., Greensboro, N. C. Mail-bag. No. 966,695; Aug. 9; Sp. p. 1831; Gaz. vol. 157; p. 313.
Lincoln Company, The. (See Lincoln, John C., assignor.)
Lincoln, Edwin S., Brookline, Mass., assignor to Electric Goods Manufacturing Company. Combined spark plug and coil. No. 945,278; Jan. 4; Sp. p. 565; Gaz. vol. 150; p. 93.
Lincoln, Frederick H., Philadelphia, Pa. Passenger electric-railway car. No. 945,964; Jan. 11; Sp. p. 2137; Gaz. vol. 150; p. 355.
Lincoln, John C., assignor to The Lincoln Company, Cleveland, Ohio. Electric-arc lamp. No. 949,081; Feb. 15; Sp. p. 2743; Gaz. vol. 151; p. 487.
Lincoln, John C., assignor to The Lincoln Company, Cleveland, Ohio. Electric-arc lamp. No. 949,151; Feb. 15; Sp. p. 2887; Gaz. vol. 151; p. 511.
Lincoln, Joshua A., assignor of one-half to U. J. Virgin, New Orleans, La. Lens-grinding machine. No. 978,764; Dec. 13; Sp. p. 2911; Gaz. vol. 161; p. 493.
Lincoln, Paul M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of distribution. No. 977,645; Dec. 6; Sp. p. 514; Gaz. vol. 161; p. 77.
Lincoln Watch & Jewelry Company. (See Bonnet, Arthur, assignor.)
Lind, Andrew A., Oshanter, Pa. Rail-joint. No. 948,015; Feb. 1; Sp. p. 487; Gaz. vol. 151; p. 79.
Lind, Arthur M., Devils Lake, N. D. Hand rammer and tamper. No. 947,548; Jan. 25; Sp. p. 5687; Gaz. vol. 150; p. 944.
Lind, Carl J., Statelevee, Miss. Wagon-jack. No. 974,084; Oct. 25; Sp. p. 5589; Gaz. vol. 159; p. 968.
Lind, Charles W., McKeesport, Pa. Salt-shaker. No. 960,650; June 7; Sp. p. 843; Gaz. vol. 155; p. 138.
Lind, Friedrich. (See Hartlieb and Lind.)
Lind, Monroe P. (See Schandein and Lind.)
Lind, Trued E., Moose Jaw, Saskatchewan, Canada. Truck-adjusting mechanism. No. 967,647; Aug. 16; Sp. p. 3854; Gaz. vol. 157; p. 661.
Lind, Walter W., East Orange, N. J. Window-frame attachment. No. 950,023; Feb. 22; Sp. p. 4796; Gaz. vol. 151; p. 843.
Lind, Walter W., East Orange, N. J. Sad-iron. No. 979,520; Dec. 27; Sp. p. 4533; Gaz. vol. 161; p. 800.
Lindahl, Ephrom. (See Oberg, William, assignor.)
Lindahl, John T., Stockholm, assignor of one-half to Göteborgs Nya Verkstadsaktiebolag, Gottenborg, Sweden. Centrifugal slime-separator. No. 954,528; Apr. 12; Sp. p. 1777; Gaz. vol. 153; p. 319.
Lindahl, Nelius E., Esmond, N. D. Toy gun. No. 945,279; Jan. 4; Sp. p. 569; Gaz. vol. 150; p. 94.
Lindau, William E., Napoleon, Ohio. Cement roofing-tile. No. 973,946; Oct. 25; Sp. p. 5305; Gaz. vol. 159; p. 921.
Lindbeck, Charles, *et al.* (See Wallen, Carl J., assignor.)
Lindberg, August, Melvin, Iowa. Wagon-tongue. No. 962,366; June 21; Sp. p. 4459; Gaz. vol. 155; p. 769.
Lindberg, Charles J., assignor of one-half to S. Nyquist, Malmo, Minn. Automatic boiler-feeder. No. 950,538; Mar. 1; Sp. p. 162; Gaz. vol. 152; p. 27.
Lindberg, John H., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Adjustable bracket. No. 945,280; Jan. 4; Sp. p. 570; Gaz. vol. 150; p. 94.
Lindblad, Axel R. (See Grönwall, Lindblad, and Stålhane.)
Lindborg, Claude A. (See McDonnell, George P., assignor.)
Linde, Charles M., Fullersburg, and F. C. Franke, assignors to Hilo Gum Company, Chicago, Ill. Coin-controlled delivery mechanism for vending-machines. No. 960,356; June 7; Sp. p. 240; Gaz. vol. 155; p. 41.
Lindelöf, Leonard, Helsingfors, Russia. Machine for applying spirally-wound mouthpieces to wrappers or shells for cigarettes. No. 964,663; July 19; Sp. p. 3560; Gaz. vol. 156; p. 609.
Lindemeyer, William J., Stapleton, N. Y. Bed-spring-attaching device. No. 948,613; Feb. 8; Sp. p. 1761; Gaz. vol. 151; p. 304.
Lindemeyer, William J., Stapleton, N. Y. Ventilator. No. 978,175; Dec. 13; Sp. p. 1653; Gaz. vol. 161; p. 291.
Linden, Lucien, Brussels, Belgium. Apparatus for purifying liquids. No. 963,448; July 5; Sp. p. 973; Gaz. vol. 156; p. 146.
Lindenberg, Alfred, Moscow, Russia, assignor to Adlerwerke vorm. Heinrich Kleyer Aktiengesellschaft, Frankfort-on-the-Main, Germany. Type-writing machine. No. 964,924; July 19; Sp. p. 4196; Gaz. vol. 156; p. 700.
Lindenberger, Hermann, Berlin, Germany. Apparatus for smoking salmon. No. 961,869; June 21; Sp. p. 3398; Gaz. vol. 155; p. 601.
Linder, Carwin, Converse, S. C. Combined planter and fertilizer-distributer. No. 976,383; Nov. 22; Sp. p. 5101; Gaz. vol. 160; p. 866.
Linder, Oscar, Chicago, Ill., assignor to Standard Electro-Utilities Company. Ozonizer. No. 951,443; Mar. 8; Sp. p. 1993; Gaz. vol. 152; p. 347.
Linder, Oscar, Chicago, Ill., assignor to Standard Electro-Utilities Company. Ozonizer. No. 969,547; Sept. 6; Sp. p. 853; Gaz. vol. 158; p. 135.
Linderholm, Carl J., Jamestown, N. Y. Washboiler. No. 968,778; Aug. 30; Sp. p. 6291; Gaz. vol. 157; p. 1098.
Linderman, Bert A., Muskegon, Mich. Machine for dovetailing and joining lumber. No. 976,192; Nov. 22; Sp. p. 4640; Gaz. vol. 160; p. 799.
Lindestrom, Hjalmar, Chicago, Ill. Pressing-machine. No. 954,314; Apr. 5; Sp. p. 1315; Gaz. vol. 153; p. 218.
Lindestrom, Hjalmar, Chicago, Ill. Pressing-machine. No. 976,384; Nov. 22; Sp. p. 5103; Gaz. vol. 160; p. 866.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Harrow. No. 965,390; July 26; Sp. p. 5158; Gaz. vol. 156; p. 885.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Agricultural implement. No. 966,568; Aug. 9; Sp. p. 1585; Gaz. vol. 157; p. 270.

Alphabetical list of patentees—Continued.

Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Combined fertilizer-distributer and seed-planter. No. 968,671; Aug. 30; Sp. p. 6043; Gaz. vol. 157; p. 1061.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Two-row cultivator. No. 970,513; Sept. 20; Sp. p. 2919; Gaz. vol. 158; p. 510.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Wheeled cultivator. No. 970,514; Sept. 20; Sp. p. 2923; Gaz. vol. 158; p. 510.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Wheeled cultivator. No. 970,515; Sept. 20; Sp. p. 2925; Gaz. vol. 158; p. 511.
Lindgren, Arthur W. (See Lindgren, Gustaf F., assignor.)
Lindgren, Carl E., assignor of three-fourths to R. B. Alberson, one-eighth to F. A. Douglass, and one-eighth to G. M. Thorp, Denver, Colo. Automatic water-controller for boilers. No. 974,085; Oct. 25; Sp. p. 5590; Gaz. vol. 159; p. 969.
Lindgren, Gustaf F., assignor of one-half to A. W. Lindgren, Galesburg, Ill. Reversible window. No. 954,746; Apr. 12; Sp. p. 2280; Gaz. vol. 153; p. 395.
Lindh, Albert L., assignor of one-third to H. White, Irwin, Pa. Train-pipe coupling. No. 963,599; July 5; Sp. p. 1282; Gaz. vol. 156; p. 197.
Lindhard, Povl T., assignor to F. L. Smidth & Co., New York, N. Y. Burning cement and other materials. No. 969,169; Sept. 6; Sp. p. 43; Gaz. vol. 158; p. 10.
Lindhe, Eric G., New York, N. Y. Shim. No. 969,709; Sept. 6; Sp. p. 1171; Gaz. vol. 158; p. 190.
Lindholm, Charles A., Riverside, assignor to Lindholm Metal Stamping Company, Camden, N. J. Punch and die mechanism. No. 948,818; Feb. 8; Sp. p. 2213; Gaz. vol. 151; p. 374.
Lindholm Metal Stamping Company. (See Lindholm, Charles A., assignor.)
Lindhorst, Frank E., assignor of one-half to G. Harris, St. Louis, Mo. Nut-lock. No. 969,548; Sept. 6; Sp. p. 856; Gaz. vol. 158; p. 135.
Lindkvist, Erik E., Stockholm, Sweden. Propelling device. No. 962,155; June 21; Sp. p. 4029; Gaz. vol. 155; p. 699.
Lindkwist, Abel S., Springdale, Pa. Gas-valve. No. 947,042; Jan. 18; Sp. p. 4531; Gaz. vol. 150; p. 747.
Lindley, Arthur G., assignor of one-half to T. F. MacGregor, Schenectady, N. Y. Vehicle-headlight-steering gear. No. 974,579; Nov. 1; Sp. p. 1156; Gaz. vol. 160; p. 175.
Lindley, Herbert, Altrincham, England. Milling-cutter. No. 953,630; Mar. 29; Sp. p. 6561; Gaz. vol. 152; p. 1172.
Lindley, James F., Jr., assignor to The T. B. Laycock Manufacturing Company, Indianapolis, Ind. Furniture. No. 966,569; Aug. 9; Sp. p. 1590; Gaz. vol. 157; p. 270.
Lindley, James F., Jr., assignor to The T. B. Laycock Manufacturing Company, Indianapolis, Ind. Metal furniture. No. 977,808; Dec. 6; Sp. p. 847; Gaz. vol. 161; p. 133.
Lindley, William M. (See Alaman and Lindley.)
Lindner, Carl A., Louisville, Ky. Reclining-couch. No. 948,735; Feb. 8; Sp. p. 2022; Gaz. vol. 151; p. 347.
Lindner, Rudolf, Erie, Pa. Mechanical movement. No. 954,116; Apr. 5; Sp. p. 873; Gaz. vol. 153; p. 151.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current controlling apparatus for hydraulic elevators. No. 976,130; Nov. 15; Sp. p. 4479; Gaz. vol. 160; p. 755.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Motor control. No. 980,109; Dec. 27; Sp. p. 5837; Gaz. vol. 161; p. 998.
Lindquist, David L., and D. Larson, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Mechanical controller for electric currents. No. 967,398; Aug. 16; Sp. p. 3354; Gaz. vol. 157; p. 578.
Lindquist, John P. (See Sellstedt, Carl W., assignor.)
Lindridge, Charles D., Providence, R. I. Telephone-repeater. No. 979,012; Dec. 20; Sp. p. 3442; Gaz. vol. 161; p. 605.
Lindroth, Alfred L., Rumford, R. I. Tea and coffee strainer. No. 956,115; Apr. 26; Sp. p. 5252; Gaz. vol. 153; p. 924.
Lindroth, Emanuel L. (See Jacobs and Lindroth.)
Lindsay Company, The. (See Braddock and Lindsay, assignors.)
Lindsay, David A., Kokomo, Ind. Means for adjusting the throw of the cams for operating valves in gas-engines. No. 953,424; Mar. 29; Sp. p. 6130; Gaz. vol. 152; p. 1100.
Lindsay, David J., Newton Highlands, Mass. Photographic-printing frame. No. 949,125; Feb. 15; Sp. p. 2839; Gaz. vol. 151; p. 502.
Lindsay, Franklin G. (See Braddock and Lindsay.)
Lindsay, Franklin G., assignor of one-half to S. C. Lindsay, Greensburg, and one-half to J. S. Braddock, Mount Pleasant, Pa. Sales-check. No. 948,178; Feb. 1; Sp. p. 806; Gaz. vol. 151; p. 134.
Lindsay, Franklin G., Scottdale, assignor of one-third to I. F. Overholt and one-third to W. F. Morrison, Mount Pleasant, Pa. Music-leaf turner. No. 978,043; Dec. 6; Sp. p. 1338; Gaz. vol. 161; p. 214.
Lindsay, Leroy J., Seymour, Iowa. Marker for planters. No. 953,849; Apr. 5; Sp. p. 338; Gaz. vol. 153; p. 60.
Lindsay, Robert, Dundee, Scotland. Variable-speed gearing. No. 975,442; Nov. 15; Sp. p. 3043; Gaz. vol. 160; p. 520.
Lindsay, Robert M., Oliver Springs, Tenn. Car retarder or chock. No. 962,967; June 28; Sp. p. 5710; Gaz. vol. 155; p. 1001.
Lindsay, Roy V., *et al.* (See Thomas, Howard W., assignor.)
Lindsay, Solomon C., *et al.* (See Lindsay, Franklin G., assignor.)
Lindsay, Solomon C., Greensburg, Pa. Convertible freight-car. No. 965,203; July 26; Sp. p. 4754; Gaz. vol. 156; p. 822.
Lindsay, William, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Enameling-powder sifter. No. 951,478; Mar. 8; Sp. p. 2071; Gaz. vol. 152; p. 359.
Lindsay, William G., New York, N. Y., assignor to The Celluloid Company. Pyroxylin compound. No. 961,360; June 14; Sp. p. 2310; Gaz. vol. 155; p. 408.
Lindsey, Daniel W., Poplar Branch, N. C. Vine-cutter for sweet potatoes. No. 962,367; June 21; Sp. p. 4461; Gaz. vol. 155; p. 769.
Lindsey, Edmund T., and W. M. Tilley, South Norfolk, Va. Rowlock. No. 967,648; Aug. 16; Sp. p. 3855; Gaz. vol. 157; p. 661.
Lindsey, George H., Austen, W. Va. Electric-railway bonding system. No. 962,966; June 28; Sp. p. 5710; Gaz. vol. 155; p. 1001.
Lindsey, John C., Los Angeles, Cal. Gaged lawn-edger. No. 954,747; Apr. 12; Sp. p. 2283; Gaz. vol. 153; p. 396.
Lindsey, Joner, Snicarte, Ill. Tailpiece for stringed instruments. No. 945,102; Jan. 4; Sp. p. 199; Gaz. vol. 150; p. 34.
Lindsey, Levi W. (See Campbell, Lute E., assignor.)
Lindsey, William F., Sadler, Tex. Plow. No. 975,544; Nov. 15; Sp. p. 3280; Gaz. vol. 160; p. 556.
Lindsey, William M., Sonora, Tex. Trap-gun. No. 967,026; Aug. 9; Sp. p. 2580; Gaz. vol. 157; p. 423.
Lindsley and Allen Electric Company *et al.* (See Cavanagh, John F., assignor.)
Lindsley, Milton F. (See Peters and Lindsley.)
Lindsley, Thomas B., assignor of one-half to S. A. Snyder, Huntington, W. Va. Antispreading device for railway-rails. No. 961,623; June 14; Sp. p. 2861; Gaz. vol. 155; p. 494.
Lindström, Carl, Berlin, Germany. Talking-machine mechanism. No. 959,238; May 24; Sp. p. 6119; Gaz. vol. 154; p. 1022.
Lindström, Charles A., Pittsburg, Pa. Draft-gear. No. 950,570; Mar. 1; Sp. p. 228; Gaz. vol. 152; p. 38.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Seat-frame. No. 947,342; Jan. 25; Sp. p. 5208; Gaz. vol. 150; p. 877.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Combined car and brake wheel. No. 970,378; Sept. 13; Sp. p. 2630; Gaz. vol. 158; p. 443.
Lindstrom, Ernest A., Orange, N. J. Hasp-locking device. No. 957,353; May 10; Sp. p. 1853; Gaz. vol. 154; p. 322.
Lindstrom, John T., Allentown, Pa. Steam-separator. No. 969,170; Sept. 6; Sp. p. 44; Gaz. vol. 158; p. 10.
Lindström, Knut I., Nykvarn, Sweden. Pneumatic-valve mechanism. No. 968,861; Aug. 30; Sp. p. 6452; Gaz. vol. 157; p. 1124.
Linegar, Thomas F., and H. M. Storms, Seattle, Wash. Rotary power-washer. No. 978,461; Dec. 13; Sp. p. 2251; Gaz. vol. 161; p. 390.
Linen Thread Company. (See Berry, Charles, assignor.)
Lines, Earl R., *et al.* (See Longstreth, Charles B., assignor.)
Lingard, Thomas W., Oak Grove, Ala. Safety device. No. 952,915; Mar. 22; Sp. p. 5019; Gaz. vol. 152; p. 902.
Linge, Charles. (See Olson, Charles W., assignor.)
Linger, Frederick A., Washington, D. C. Nursery chair and table. No. 946,942; Jan. 18; Sp. p. 4340; Gaz. vol. 150; p. 713.
Lingle, George W., Burlington, Wis. Spirit-level. No. 970,729; Sept. 20; Sp. p. 3402; Gaz. vol. 158; p. 584.
Lingner, Karl A., Dresden, Germany. Closing device for vessels. No. 963,909; July 12; Sp. p. 1968; Gaz. vol. 156; p. 323.
Lingner, Oscar, Dresden-Neustadt, Germany. Packing for stuffing-boxes. No. 945,790; Jan. 11; Sp. p. 1739; Gaz. vol. 150; p. 292.
Lingo, Frank M., and E. J. Kaufman, Columbus, Ohio. Garment-supporter. No. 975,700; Nov. 15; Sp. p. 3606; Gaz. vol. 160; p. 608.
Linguist, Charles, assignor of one-half to R. C. Kemp, Waterford, Ontario, Canada. Wagon-rack. No. 951,284; Mar. 8; Sp. p. 1664; Gaz. vol. 152; p. 295.
Link, Alexander, Phoenix, Ariz. Saw-set. No. 973,282; Oct. 18; Sp. p. 3907; Gaz. vol. 159; p. 668.
Link-Belt Company. (See Dodge, James M., assignor.)
Link-Belt Company. (See Hughes, James W., assignor.)
Link-Belt Company. (See Lewis, George L., assignor.)
Link-Belt Company. (See Pierce, Harold S., assignor.)
Link Belt Company. (See Waechter, Ferdinand F., assignor.)

Link, Charles F., assignor to T. F. Devlin, Philadelphia, Pa. Door-holder. No. 964,283; July 12; Sp. p. 2734; Gaz. vol. 156; p. 451.
Link, Joseph S. (See McNab and Link.)
Link, Lewis W. (See Gunn and Link.)
Link, Rolls P. (See Hyde and Link.)
Link, Rolls P., and A. C. Morgan, assignors to Uni-Type-bar, Limited, London, England. Type casting and composing machine. No. 979,864; Dec. 27; Sp. p. 5307; Gaz. vol. 161; p. 918.
Link, Vincent, Detroit, Mich. Motor-vehicle. No. 976,193; Nov. 22; Sp. p. 4643; Gaz. vol. 160; p. 799.
Linke, Charles, Strassburg, Germany. Means for visibly indicating faulty insulators. No. 967,649; Aug. 16; Sp. p. 3856; Gaz. vol. 157; p. 662.
Linker, Peter, Philadelphia, Pa. Amusement device. No. 969,068; Aug. 30; Sp. p. 6869; Gaz. vol. 157; p. 1195.
Linkmeyer, Rudolf, Bremen, Germany. Producing solutions for spinning artificial threads and the like. No. 945,559; Jan. 4; Sp. p. 1196; Gaz. vol. 150; p. 185.
Linkmeyer, Rudolph, Bremen, Germany. Producing durable solutions for spinning and other purposes. No. 962,770; June 28; Sp. p. 5350; Gaz. vol. 155; p. 935.
Linkmeyer, Rudolf, Bremen, Germany. Manufacturing masses for use in making artificial threads and the like. No. 979,013; Dec. 20; Sp. p. 3448; Gaz. vol. 161; p. 605.
Linkmeyer, Rudolph, Brussels, Belgium. Manufacturing cellulose structures. No. 962,769; June 28; Sp. p. 5349; Gaz. vol. 155; p. 935.
Linn, Albert W. (See Curry and Linn.)
Linn, George E., assignor to L. M. Mitchell, Springfield, Ohio. Molder's flask. No. 960,025; May 31; Sp. p. 7821; Gaz. vol. 154; p. 1315.
Linn, George S., assignor of one-half to E. S. Hicks, Santa Barbara, Cal. Gas-filter. No. 975,262; Nov. 8; Sp. p. 2676; Gaz. vol. 160; p. 432.
Linn, John W., and T. A. Stubbs, McGuffey, Ohio. Harvester for onions and the like. No. 967,139; Aug. 9; Sp. p. 2820; Gaz. vol. 157; p. 462.
Linnell, Lafayette S., Almena, Kans. Hay-stacker. No. 978,315; Dec. 13; Sp. p. 1950; Gaz. vol. 161; p. 340.
Linotype and Machinery Limited. (See Holbourns and Longhurst, assignors.)
Linotype and Machinery Limited. (See Parker, Thomas R. G., assignor.)
Linotype and Machinery Limited. (See Woodroffe, Pearce, and Billington, assignors.)
Linquest, Oscar B., Jamestown, assignor of one-half to A. F. Russell, Lakewood, N. Y. Electric heater for oil-wells. No. 957,785; May 10; Sp. p. 2732; Gaz. vol. 154; p. 468.
Lins, Walter R., Philadelphia, Pa. Ore separating or concentrating machine. No. 962,575; June 28; Sp. p. 4951; Gaz. vol. 155; p. 867.
Lintern, William, Cleveland, Ohio. Ventilator. No. 952,747; Mar. 22; Sp. p. 4674; Gaz. vol. 152; p. 846.
Lintleman, Frederick R., Harlan, Iowa. Surgeon's operating-pan. No. 959,564; May 31; Sp. p. 6803; Gaz. vol. 154; p. 1157.
Linton, Curtis D., Paint Bank, Va. Wagon-brake. No. 962,442; June 28; Sp. p. 4649; Gaz. vol. 155; p. 820.
Linton, John S., Anderson, Ind. Raising device for molds. No. 953,476; Mar. 29; Sp. p. 6240; Gaz. vol. 152; p. 1118.
Linville, Robert W., San Francisco, assignor of forty-nine one-hundredths to J. F. Snyder, Richmond, Cal. Adjustable trowel. No. 961,302; June 14; Sp. p. 2169; Gaz. vol. 155; p. 388.
Linville, Robert W., San Francisco, assignor of forty-nine one-hundredths to J. F. Snyder, Richmond, Cal. Adjustable trowel. No. 963,717; July 5; Sp. p. 1515; Gaz. vol. 156; p. 236.
Lionel Manufacturing Company. (See Caruso, Mario, assignor.)
Lionel Manufacturing Company, The. (See Cohen, Joshua L., assignor.)
Lionel Manufacturing Company, The. (See Grant, Harry C., assignor.)
Lipic, Joseph, St. Louis, Mo. Self-filling fountain-pen. No. 976,815; Nov. 22; Sp. p. 5997; Gaz. vol. 160; p. 1013.
Lipkey, Joseph, Chicago, Ill. Attachment for garment-pockets. No. 960,651; June 7; Sp. p. 844; Gaz. vol. 155; p. 138.
Lippert, Samuel, East Cleveland, Ohio. Power-transmission device. No. 955,816; Apr. 19; Sp. p. 4577; Gaz. vol. 153; p. 791.
Lippert, Samuel, assignor to The Reciprocating Power and Pump Company, Cleveland, Ohio. Gearing. No. 955,817; Apr. 19; Sp. p. 4582; Gaz. vol. 153; p. 791.
Lippincott, Ellis R. (See Bussey and Lippincott.)
Lippincott, Frank T., Newark, Ohio. Sash-cord connector. No. 979,014; Dec. 20; Sp. p. 3449; Gaz. vol. 161; p. 605.
Lippincott, Frank T., Newark, Ohio. Latch. No. 979,178; Dec. 20; Sp. p. 3838; Gaz. vol. 161; p. 664.
Lippincott, Richard E., Pemberton, N. J. Portable husking-bench. No. 969,069; Aug. 30; Sp. p. 6871; Gaz. vol. 157; p. 1196.
Lippold, Henry, assignor to Lippold Valve Company, Erie, Pa. Valve. No. 977,105; Nov. 29; Sp. p. 6694; Gaz. vol. 160; p. 1139.
Lippold Valve Company. (See Lippold, Henry, assignor.)
Lipps, Evrah C., assignor to The Peerless Electric Company, Warren, Ohio. Oscillating fan. No. 961,703; June 14; Sp. p. 3010; Gaz. vol. 155; p. 521.
Lipps, William, Chattanooga, Tenn. Bottle-washing machine. No. 967,399; Aug. 16; Sp. p. 3360; Gaz. vol. 157; p. 579.
Lips, Jakob, Nieder-Urdof, Switzerland. Kneading and mixing machine. No. 971,387; Sept. 27; Sp. p. 4757; Gaz. vol. 158; p. 831.
Lipschutz, Arthur, St. Louis, Mo., assignor, by mesne assignments, to National Dump Car Company. Dump-car. No. 957,616; May 10; Sp. p. 2363; Gaz. vol. 154; p. 411.
Lipscomb, Daniel M., Albert, W. Va. Railway-spike. No. 956,378; Apr. 26; Sp. p. 5841; Gaz. vol. 153; p. 1015.
Lipscomb, James H., Pilot Point, Tex. Muzzle. No. 950,335; Feb. 22; Sp. p. 5410; Gaz. vol. 151; p. 949.
Liptak, John. (See Tóth, Beleznay, and Liptak.)
Lisch, Jacob J., assignor of one-half to F. J. Geverts, Bellevue, Ky. Automatic fish-hook. No. 973,119; Oct. 18; Sp. p. 3534; Gaz. vol. 159; p. 611.
Lisieniecki, Peter, Drohobycz, Austria-Hungary. Oil-burning heater. No. 965,721; July 26; Sp. p. 5893; Gaz. vol. 156; p. 1001.
Lisle, Myron C., assignor of one-fourth to V. Robinson, Toronto, Ontario, Canada. Firearm. No. 970,248; Sept. 13; Sp. p. 2378; Gaz. vol. 158; p. 401.
Lispenard, George, assignor to S. K. Lichtenstein, trustee, New York, N. Y. Cotton-harvester. No. 975,775; Nov. 15; Sp. p. 3761; Gaz. vol. 160; p. 633.
Lispenard, George, Brooklyn, assignor to S. K. Lichtenstein, trustee, New York, N. Y. Cotton-harvester. No. 976,084; Nov. 15; Sp. p. 4354; Gaz. vol. 160; p. 740.
Lissy, Franz. (See Schnapka, Xavera F., assignor.)
List, Georg, Offenbach-on-the-Main, assignor to Corporation of Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Brown sulfur dye and making same. No. 960,652; June 7; Sp. p. 845; Gaz. vol. 155; p. 139.
List, Roland E., Zanesville, Ohio. Rotary engine. No. 969,070; Aug. 30; Sp. p. 6873; Gaz. vol. 157; p. 1196.
Lister, Archie E., Pearl City, Hawaii. Pineapple coring and sizing machine. No. 978,383; Dec. 13; Sp. p. 2092; Gaz. vol. 161; p. 364.
Lister, Frank, Clayton, near Bradford, England. Doffing mechanism. No. 946,144; Jan. 11; Sp. p. 2485; Gaz. vol. 150; p. 415.
Lister, John T., Cleveland, Ohio, assignor to The Cleveland Gas Mantle and Supply Company. Support for inverted incandescent mantles. No. 963,910; July 12; Sp. p. 1968; Gaz. vol. 156; p. 323.
Lister, Levi H., Bay St. Louis, assignor of one-half to W. H. Bouslog, Gulfport, Miss. Refrigerating-car. No. 977,412; Nov. 29; Sp. p. 7367; Gaz. vol. 160; p. 1245.
Lister-Noble Roller Company. (See Milson, John R., assignor.)
Litchfield, Herbert L., Southbridge, Mass. Loom shuttle-spindle. No. 970,516; Sept. 20; Sp. p. 2931; Gaz. vol. 158; p. 511.
Litchfield, Herbert L., Southbridge, Mass. Hand-threading loom-shuttle. No. 978,462; Dec. 13; Sp. p. 2253; Gaz. vol. 161; p. 390.
Litchfield, Herbert L., Southbridge, Mass. Shuttle-threading means. No. 979,865; Dec. 27; Sp. p. 5312; Gaz. vol. 161; p. 919.
Litchfield, Isaac W., Boston, Mass. Shoe-tree. No. 976,194; Nov. 22; Sp. p. 4645; Gaz. vol. 160; p. 799.
Litchfield, Isaac W., Boston, Mass., assignor of one-half to H. H. De Loss, Bridgeport, Conn. Belt-shifter. No. 961,417; June 14; Sp. p. 2409; Gaz. vol. 155; p. 426.
Litchfield, Isaac W., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Automatic switch for pneumatic-tube apparatus. No. 968,577; Aug. 30; Sp. p. 5837; Gaz. vol. 157; p. 1029.
Lithander, Nelson P., Hallock, Minn. Cutter for harvesters. No. 957,428; May 10; Sp. p. 2010; Gaz. vol. 154; p. 347.
Lithographic Stone and Marble Company Limited, The. (See Thom, Thomas, assignor.)
Litle, Thomas J., Jr., Philadelphia, Pa. Mantle-supporting transportation device. No. 958,261; May 17; Sp. p. 3940; Gaz. vol. 154; p. 663.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Chandelier for gas-lamps. No. 947,665; Jan. 25; Sp. p. 5924; Gaz. vol. 150; p. 984.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Globe or shade for gas-lamps. No. 961,504; June 14; Sp. p. 2609; Gaz. vol. 155; p. 455.
Littig, Victor L., Davenport, Iowa. Ink-well. No. 961,972; June 21; Sp. p. 3608; Gaz. vol. 155; p. 635.
Littig, Victor L., Davenport, Iowa. Trousers-hanger. No. 964,172; July 12; Sp. p. 2504; Gaz. vol. 156; p. 411.
Little, Alonzo R., and E. H. Smith, York, Nebr. Feeding mechanism for paper-folding machines. No. 952,534; Mar. 22; Sp. p. 4199; Gaz. vol. 152; p. 771.
Little & Co. (See Baynard, William H., assignor.)
Little, Damon E., Boston, Mass. Boot or shoe. No. 966,340; Aug. 2; Sp. p. 1023; Gaz. vol. 157; p. 166.
Little, George G., Gulfport, Miss. Valve. No. 961,505; June 14; Sp. p. 2611; Gaz. vol. 155; p. 456.

Alphabetical list of patentees—Continued.

Little, George M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-lamp. No. 964,664; July 19; Sp. p. 3562; Gaz. vol. 156; p. 609.
Little, George M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting device for electric lamps. No. 964,665; July 19; Sp. p. 3564; Gaz. vol. 156; p. 610.
Little, George M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Casing for arc-lamps. No. 964,666; July 19; Sp. p. 3567; Gaz. vol. 156; p. 610.
Little, George M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Guide and holder for arc-lamp electrodes. No. 964,667; July 19; Sp. p. 3568; Gaz. vol. 156; p. 610.
Little, George M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting device for arc-lamps. No. 965,139; July 19; Sp. p. 4618; Gaz. vol. 156; p. 770.
Little, James E., Philadelphia, Pa. Tailor's measure. No. 979,866; Dec. 27; Sp. p. 5314; Gaz. vol. 161; p. 919.
Little, Jesse, Bethany, Mo. Corn-harvester. No. 961,455; June 14; Sp. p. 2496; Gaz. vol. 155; p. 439.
Little, Mary L., Los Angeles, Cal. Solar-heating plant. No. 965,391; July 26; Sp. p. 5160; Gaz. vol. 156; p. 885.
Little, Nathaniel, Des Moines, Iowa. Nut-lock. No. 975,545; Nov. 15; Sp. p. 3281; Gaz. vol. 160; p. 556.
Little, Sara W., St. Louis, Mo. Sanitary skirt-shield. No. 977,203; Nov. 29; Sp. p. 6918; Gaz. vol. 160; p. 1175.
Little, William E. (See Blyth, Arthur J., assignor.)
Littlefield, Charles A., Lowell, assignor to Draper Company, Hopedale, Mass. Filling-supplying mechanism for automatic filling-replenishing looms. No. 972,881; Oct. 18; Sp. p. 2988; Gaz. vol. 159; p. 529.
Littlefield, Charles A., Lowell, assignor to Draper Company, Hopedale, Mass. Holding device for loom-temples. No. 979,774; Dec. 27; Sp. p. 5092; Gaz. vol. 161; p. 887.
Littlehales, William J., New Britain, Conn. Electric-cable connection. No. 948,563; Feb. 8; Sp. p. 1657; Gaz. vol. 151; p. 289.
Littler, Robert, Haddonfield, N. J. Bottle-capping machine. No. 951,015; Mar. 1; Sp. p. 1133; Gaz. vol. 152; p. 184.
Littler, Robert, Westgrove, Pa. Bottle-filling valve. No. 976,085; Nov. 15; Sp. p. 4359; Gaz. vol. 160; p. 741.
Littman, Albert, and W. J. Lackie, assignors of one-third to N. T. Merck, Cleveland, Ohio. Fender. No. 960,976; June 7; Sp. p. 1477; Gaz. vol. 155; p. 248.
Litty, Lucas, Baton Rouge, La. Filling and crowning machine. No. 951,736; Mar. 8; Sp. p. 2568; Gaz. vol. 152; p. 445.
Live Poultry Transportation Company. (See Mudd, Francis X., assignor.)
Live Stock Market Company. (See Stevens, Frederick R., assignor.)
Lively, James M., assignor to W. D. Walbridge, New York, N. Y. Rotary engine. No. 951,479; Mar. 8; Sp. p. 2073; Gaz. vol. 152; p. 359.
Lively, James M., assignor to W. D. Walbridge, New York, N. Y. Steam-generator. No. 951,480; Mar. 8; Sp. p. 2076; Gaz. vol. 152; p. 360.
Lively, John W., Northtown, Ky. Paper-weight and pen-wiper. No. 966,106; Aug. 2; Sp. p. 558; Gaz. vol. 157; p. 90.
Livengood, Winfield S., Kansas City, Mo. Baling-press. No. 976,474; Nov. 22; Sp. p. 5292; Gaz. vol. 160; p. 898.
Livengood, Winfield S., assignor to Smith & Sons Mfg. Co., Kansas City, Mo. Road-grader. No. 945,179; Jan. 4; Sp. p. 353; Gaz. vol. 150; p. 59.
Livering, Annie, *et al.* (See Livering, Charles J., assignor.)
Livering, Charles J., assignor of three-fifths to A. Livering, Louisville, and two-fifths to W. E. Pemberton, Clark, Ky. Combination implement. No. 957,692; May 10; Sp. p. 2530; Gaz. vol. 154; p. 438.
Livernoch, Albert, Sacramento, Cal. Ribbon-cutting attachment for printing-presses. No. 948,632; Feb. 8; Sp. p. 1808; Gaz. vol. 151; p. 311.
Livingood, Calvin, Hamburg, Pa. Railway-tie. No. 971,132; Sept. 27; Sp. p. 4231; Gaz. vol. 158; p. 747.
Livingston, Frank, New Boston, Ill. Clock-setting device. No. 979,402; Dec. 20; Sp. p. 4279; Gaz. vol. 161; p. 736.
Livingston, Lloyd L. (See Putnam and Livingston.)
Livingston, Louis J., Omaha, Nebr. Protecting device for gas-stoves. No. 976,475; Nov. 22; Sp. p. 5299; Gaz. vol. 160; p. 898.
Livingston, Reason C., Spring Valley, Minn. Telephone system. No. 962,645; June 28; Sp. p. 5086; Gaz. vol. 155; p. 889.
Livingston, Richard. (See Carr and Livingston.)
Livingston, Thomas P., Augusta, Ga. Rail-chair. No. 978,176; Dec. 13; Sp. p. 1656; Gaz. vol. 161; p. 291.
Livix, William. (See Seals, Charles, assignor.)
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 957,354; May 10; Sp. p. 1854; Gaz. vol. 154; p. 323.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 957,355; May 10; Sp. p. 1856; Gaz. vol. 154; p. 323.
Ljunggren, Carl J., Providence, R. I. Chalice. No. 960,977; June 7; Sp. p. 1478; Gaz. vol. 155; p. 248.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 974,897; Nov. 8; Sp. p. 1849; Gaz. vol. 160; p. 307.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 975,546; Nov. 15; Sp. p. 3283; Gaz. vol. 160; p. 557.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 977,646; Dec. 6; Sp. p. 516; Gaz. vol. 161; p. 78.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 977,647; Dec. 6; Sp. p. 517; Gaz. vol. 161; p. 78.
Ljungström, Birger. (See Forsberg and Ljungström.)
Ljungström, Birger, Stockholm, Sweden. Rotating baffling device for gas-turbines. No. 945,180; Jan. 4; Sp. p. 355; Gaz. vol. 150; p. 60.
Ljungström, Birger, Stockholm, Sweden. Turbine. No. 962,088; June 21; Sp. p. 3859; Gaz. vol. 155; p. 675.
Ljungström, Birger, assignor to Aktiebolaget Ljungstroms Augturbin, Stockholm, Sweden. Vane-ring for turbines. No. 968,862; Aug. 30; Sp. p. 6454; Gaz. vol. 157; p. 1124.
Llewellyn, David R. (See Coyne and Llewellyn.)
Llewellyn, William H., and A. G. Olney, New York, N. Y. Apparatus for the manufacture of plate-ice. No. 974,162; Nov. 1; Sp. p. 110; Gaz. vol. 160; p. 22.
Lloyd, Claud A. (See Oliphant and Ring, assignors.)
Lloyd, E. C., *et al.* (See Leavell, Thomas G., assignor.)
Lloyd, Ernest F., Detroit, Mich. Tar-displacement system. No. 956,586; May 3; Sp. p. 171; Gaz. vol. 154; p. 29.
Lloyd, Ernest F., Detroit, Mich. Gas-scrubber. No. 973,120; Oct. 18; Sp. p. 3535; Gaz. vol. 159; p. 612.
Lloyd, Frank B. (See Duckett and Lloyd.)
Lloyd, Frank C. (See Leinert, Wenzel, assignor.) (Reissue.)
Lloyd, George W., New York, N. Y. Station or street indicator. No. 961,243; June 14; Sp. p. 2032; Gaz. vol. 155; p. 366.
Lloyd, Harry S., Alton Park, Tenn., assignor of one-half to H. L. Lamb, Troy, N. Y. Ash-pan. No. 967,944; Aug. 23; Sp. p. 4456; Gaz. vol. 157; p. 784.
Lloyd, Harry W., Jacksonville, Fla. Clutch. No. 974,086; Oct. 25; Sp. p. 5592; Gaz. vol. 159; p. 969.
Lloyd, Herbert D., Cheshire, Conn. Hat-tree. No. 961,418; June 14; Sp. p. 2413; Gaz. vol. 155; p. 426.
Lloyd Manufacturing Company. (See Lloyd, Marshall B., assignor.)
Lloyd, Marshall B., assignor to Lloyd Manufacturing Company, Minneapolis, Minn. Collapsible go-cart. No. 968,170; Aug. 23; Sp. p. 4992; Gaz. vol. 157; p. 861.
Lloyd, W. Clayton. (See Milloy, Peter D., assignor.)
Lloyd, William G., Wellsville, Ohio. Reamer and auger. No. 952,916; Mar. 22; Sp. p. 5021; Gaz. vol. 152; p. 902.
Lo Celso, Michael, Chicago, Ill. Fender for locomotives and other vehicles. No. 975,443; Nov. 15; Sp. p. 3046; Gaz. vol. 160; p. 520.
Lobdell Car Wheel Company. (See Stuart, Joseph, assignor.)
Lobdell, Edward J., Onaway, Mich. Reinforced wood rim. No. 964,984; July 19; Sp. p. 4308; Gaz. vol. 156; p. 719.
Lobdell, William W., Wilmington, Del. Alloy for making car-wheels. No. 947,248; Jan. 25; Sp. p. 4944; Gaz. vol. 150; p. 842.
Lobee, Bart, Buffalo, N. Y. Rotary pump. No. 967,400; Aug. 16; Sp. p. 3362; Gaz. vol. 157; p. 579.
Lobee, Bart, Buffalo, N. Y. Dust-separating tank. No. 974,163; Nov. 1; Sp. p. 112; Gaz. vol. 160; p. 22.
Lobee, Bart, Buffalo, N. Y. Horse-cleaning implement. No. 977,106; Nov. 29; Sp. p. 6694; Gaz. vol. 160; p. 1140.
Lobnitz, Fred, Crookston, Scotland. Hopper dredger and barge. No. 946,059; Jan. 11; Sp. p. 2322; Gaz. vol. 150; p. 386.
Loburg, Albert, *et al.* (See Schlabs, Franz, assignor.)
Locandro, Domenico, Collinsville, Ill. Spout for powder-cans. No. 971,055; Sept. 27; Sp. p. 4083; Gaz. vol. 158; p. 723.
Loch, Joseph, Brooklyn, N. Y. Electric door-opener. No. 956,379; Apr. 26; Sp. p. 5842; Gaz. vol. 153; p. 1015.
Lochhead, George, Los Angeles, Cal. Wagon-nut. No. 958,262; May 17; Sp. p. 3941; Gaz. vol. 154; p. 664.
Lochner, Charles. (See Flinn, George A., assignor.)
Lochowicz, Stanislaus, assignor of one-fourth to W. Dziatkiewicz, Camden, N. J. Switch-point-throwing mechanism. No. 962,771; June 28; Sp. p. 5350; Gaz. vol. 155; p. 935.
Locke, D'Arcy V. T. A., Southbourne, assignor to E. J. Castiglione, Carlisle, and F. C. Bolton, Wandales, Wetheral, England. Valve of internal-combustion engines. No. 963,600; July 5; Sp. p. 1284; Gaz. vol. 156; p. 197.
Locke, Fertig and Locke. (See Strain and Lock, assignors.)
Locke, Frank B., assignor of one-third to H. E. Locke, Sharpsville, Pa. Non-refillable bottle. No. 963,302; July 5; Sp. p. 683; Gaz. vol. 156; p. 97.

Locke, Fred M., assignor to The Locke Insulator Manufacturing Company, Victor, N. Y. Insulating system for high-potential electric conductors. No. 973,204; Oct. 18; Sp. p. 3761; Gaz. vol. 159; p. 642.
Locke, Harry E. (See Locke, Frank B., assignor.)
Locke, Henry H., Bradford, and C. W. Boring, Bradford township, McKean county, Pa. Clutch-pulley. No. 965,825; July 26; Sp. p. 6116; Gaz. vol. 156; p. 1037.
Locke Insulator Manufacturing Company. (See Goddard, Walter T., assignor.)
Locke Insulator Manufacturing Company, The. (See Locke, Fred M., assignor.)
Locke, John R. (See Mack, John R., assignor.)
Locke, Louis P., Victor, N. Y. Rail-joint. No. 979,015; Dec. 20; Sp. p. 3451; Gaz. vol. 161; p. 606.
Locke, Nathaniel C., Salem, Mass. Automatic engine-stop. No. 956,380; Apr. 26; Sp. p. 5843; Gaz. vol. 153; p. 1015.
Locke, Nathaniel C., assignor to Locke Regulator Company, Salem, Mass. Fire-pump governor. No. 970,630; Sept. 20; Sp. p. 3203; Gaz. vol. 158; p. 551.
Locke, Nathen A., Fulton, N. Y. Instrument for comparing the relative positions of centers. No. 978,177; Dec. 13; Sp. p. 1657; Gaz. vol. 161; p. 291.
Locke Regulator Company. (See Locke, Nathaniel C., assignor.)
Locke, William H. (See Strain and Locke.)
Locke, William S., Lents, assignor of one-half to Portland Realty & Trust Company, Portland, Oreg. Saw-handle. No. 962,904; June 28; Sp. p. 5603; Gaz. vol. 155; p. 981.
Locke, William S., Lents, assignor of one-half to Portland Realty & Trust Company, Portland, Oreg. Saw-handle. No. 966,570; Aug. 9; Sp. p. 1591; Gaz. vol. 157; p. 271.
Locke, William S., assignor of twenty-five and fifty one-hundredths per cent. to C. S. Robinson, twenty-four and fifty one-hundredths per cent. to H. J. Heffron, and twenty-four and fifty one-hundredths per cent. to R. B. Blodgett, Los Angeles, Cal. Gasket. No. 967,650; Aug. 16; Sp. p. 3857; Gaz. vol. 157; p. 662.
Locker, John B., St. Louis, Mo. Horseshoe. No. 957,072; May 3; Sp. p. 1231; Gaz. vol. 154; p. 195.
Lockerd, James R., Marlin, Tex. Vehicle-lift. No. 964,113; July 12; Sp. p. 2397; Gaz. vol. 156; p. 393.
Lockett, Andrew M. (See Gregory and Lockett.)
Lockett, Andrew M., New Orleans, La. Valve-reseating device. No. 967,532; Aug. 16; Sp. p. 3628; Gaz. vol. 157; p. 623.
Lockfaw, John A., Wilmington, N. C. Sheave-block. No. 964,284; July 12; Sp. p. 2735; Gaz. vol. 156; p. 451.
Lockhart, Joseph M., and H. J. Jenkinson, Manchester, England. Apparatus for boning or laying drain-pipes. No. 961,244; June 14; Sp. p. 2035; Gaz. vol. 155; p. 367.
Lockhart, Willie C., Perry, Fla. Knife. No. 970,517; Sept. 20; Sp. p. 2934; Gaz. vol. 158; p. 511.
Lockrem, Edward B., Buchanan, Saskatchewan, Canada. Track-cleaner. No. 952,453; Mar. 22; Sp. p. 4019; Gaz. vol. 152; p. 744.
Lockwood, Alfred A., London, England. Treating ores and carboniferous earths. No. 956,773; May 3; Sp. p. 589; Gaz. vol. 154; p. 94.
Lockwood, Alfred A., assignor to The L. & S. Syndicate, Limited, London, England. Treating ores and carboniferous earths. No. 959,239; May 24; Sp. p. 6120; Gaz. vol. 154; p. 1022.
Lockwood, Alfred A., and M. R. A. Samuel, assignors to The Murex Syndicate, Limited, London, England. Treating ore. No. 956,381; Apr. 26; Sp. p. 5845; Gaz. vol. 153; p. 1016.
Lockwood, Arthur L., Jackson, Mich. Pneumatic-tire rim. No. 953,477; Mar. 29; Sp. p. 6241; Gaz. vol. 152; p. 1119.
Lockwood, Arthur L., Jackson, Mich. Priming-cup for internal-combustion motors. No. 953,478; Mar. 29; Sp. p. 6242; Gaz. vol. 152; p. 1119.
Lockwood, Byron F., Jackson, Mich. Hernial truss. No. 953,015; Mar. 22; Sp. p. 5221; Gaz. vol. 152; p. 936.
Lockwood, Charles S. (See Shirley and Lockwood.)
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Bearing-roll with angular interspace. No. 950,110; Feb. 22; Sp. p. 4950; Gaz. vol. 151; p. 871.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Self-contained roller-bearing. No. 954,529; Apr. 12; Sp. p. 1779; Gaz. vol. 153; p. 319.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Means for retaining roller-bearing sleeves on shafts. No. 955,120; Apr. 12; Sp. p. 3064; Gaz. vol. 153; p. 519.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing with combined thrust and bearing rolls. No. 955,888; Apr. 26; Sp. p. 4777; Gaz. vol. 153; p. 845.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing with angular rolls. No. 956,587; May 3; Sp. p. 174; Gaz. vol. 154; p. 30.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Combined roll and ball bearing. No. 956,588; May 3; Sp. p. 176; Gaz. vol. 154; p. 30.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Self-adjusting casing for roller-bearings. No. 958,143; May 17; Sp. p. 3696; Gaz. vol. 154; p. 624.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Making helical rolls. No. 958,144; May 17; Sp. p. 3698; Gaz. vol. 154; p. 625.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Combination roller-bearing. No. 958,963; May 24; Sp. p. 5543; Gaz. vol. 154; p. 931.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Antifriction-cage for roller-bearing rolls. No. 961,303; June 14; Sp. p. 2170; Gaz. vol. 155; p. 388.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roll-cage for closed journal-boxes. No. 964,285; July 12; Sp. p. 2736; Gaz. vol. 156; p. 452.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing with transversely-divided rolls. No. 964,286; July 12; Sp. p. 2737; Gaz. vol. 156; p. 452.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Wearing-piece for ends of spirally-wound rolls. No. 964,287; July 12; Sp. p. 2738; Gaz. vol. 156; p. 452.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Helical-roll winder. No. 964,288; July 12; Sp. p. 2740; Gaz. vol. 156; p. 452.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Strip for making antifriction bearing-rolls. No. 966,844; Aug. 9; Sp. p. 2199; Gaz. vol. 157; p. 362.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Renewable journal-bearing sleeve. No. 976,476; Nov. 22; Sp. p. 5300; Gaz. vol. 160; p. 899.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Ball-bearing with self-adjusting casing. No. 976,477; Nov. 22; Sp. p. 5302; Gaz. vol. 160; p. 899.
Lockwood, Charles S., Newark, N. J., assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing having grooved rolls and tension-band. No. 977,458; Dec. 6; Sp. p. 65; Gaz. vol. 161; p. 13.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Sleeve to guide the cages in roller-bearings. No. 979,317; Dec. 20; Sp. p. 4120; Gaz. vol. 161; p. 710.
Lockwood, David D., Bridgeport, Conn. Adjustable shade for electric lights. No. 961,973; June 21; Sp. p. 3609; Gaz. vol. 155; p. 635.
Lockwood, David D., Bridgeport, Conn. Electric lamp. (Reissue.) No. 13,158; Oct. 18; Sp. p. 4290; Gaz. vol. 159; p. 731.
Lockwood, Edward M., Philadelphia, Pa., assignor to C. R. Carver Company. Embossing and printing press. No. 951,481; Mar. 8; Sp. p. 2078; Gaz. vol. 152; p. 360.
Lockwood, Erastus C., Cleveland, Ohio. Book-rest. No. 975,140; Nov. 8; Sp. p. 2406; Gaz. vol. 160; p. 391.
Lockwood, Frank A., Denver, Colo., assignor to The Denver Engineering Works Co. Pressure-controlling valve. No. 957,511; May 10; Sp. p. 2168; Gaz. vol. 154; p. 375.
Lockwood, Henry S., South Norwalk, Conn. Thumb-knob for locks and latches. No. 963,053; July 5; Sp. p. 53; Gaz. vol. 156; p. 11.
Lockwood, Henry S., South Norwalk, Conn. Securing thumb-knobs to roses. No. 970,518; Sept. 20; Sp. p. 2935; Gaz. vol. 158; p. 512.
Lockwood, James E. (See Seitz, Edward, assignor.)
Lockwood, John F., Kansas City, Mo. Device for operating awnings. No. 953,386; Mar. 29; Sp. p. 6051; Gaz. vol. 152; p. 1087.
Lockwood, Judd A. (See Burr and Lockwood.)
Lockwood, Nelson A., assignor of one-half to L. Eccles, Logan, Utah. Filter-press cock. No. 974,580; Nov. 1; Sp. p. 1159; Gaz. vol. 160; p. 175.
Lockwood, Walter H. (See Spring and Lockwood.)
Lockwood, Willard D., Schenectady, N. Y. Safety-sheave. No. 975,052; Nov. 8; Sp. p. 2217; Gaz. vol. 160; p. 360.
Locomotive Recording Dynamometer Company. (See Park and Phillips, assignors.)
Loder, John S., assignor to Loder Smelter & Refiner Co., Reno, Nev. Smelting-furnace. No. 948,098; Feb. 1; Sp. p. 666; Gaz. vol. 151; p. 108.
Loder Smelter & Refiner Co. (See Loder, John S., assignor.)
Lodewyck, Arthur G. (See Jenner, Roy C., assignor.)
Lodge, Burton D., Magnolia, Del. Nut-lock. No. 968,171; Aug. 23; Sp. p. 4995; Gaz. vol. 157; p. 861.
Loeb, Adam, Portland, Oreg. Shell for cartridges. No. 957,171; May 3; Sp. p. 1430; Gaz. vol. 154; p. 229.
Loebbecke, Georg, Zehlendorf, near Berlin, Germany. Manufacture of craped or goffered paper. No. 951,954; Mar. 15; Sp. p. 3040; Gaz. vol. 152; p. 550.
Loeber, Edgar O., assignor to The Handy Manufacturing Company, Cleveland, Ohio. Combined mop and brush holder. No. 972,458; Oct. 11; Sp. p. 2033; Gaz. vol. 159; p. 356.

Alphabetical list of patentees—Continued.

Loebl, Hugo, assignor to Kuhn Checking System Co., New York, N. Y. Guest-check for hotels. No. 946,378; Jan. 11; Sp. p. 3098; Gaz. vol. 150; p. 497.
Loeble, Gottlob E., New York, N. Y. Cartridge. No. 953,850; Apr. 5; Sp. p. 341; Gaz. vol. 153; p. 60.
Loeble, Gottlob E., New York, N. Y. Cartridge. No. 963,911; July 12; Sp. p. 1970; Gaz. vol. 156; p. 324.
Loedige, Fred, Chicago, Ill. Valve and valve-operating mechanism. No. 978,463; Dec. 13; Sp. p. 2257; Gaz. vol. 161; p. 391.
Loef, John C. (See Younggreen and Loef.)
Loeffelman, Leo J., assignor of one-fourth to T. Loeffelman, St. Louis, Mo. Non-refillable bottle. No. 951,424; Mar. 8; Sp. p. 1960; Gaz. vol. 152; p. 341.
Loeffelman, Thomas. (See Loeffelman, Leo J., assignor.)
Loeffler, Samuel H., New Kensington, Pa. Safety-envelop. No. 966,934; Aug. 9; Sp. p. 2383; Gaz. vol. 157; p. 390.
Loehl, Adolph, *et al.* (See Barrick, Livy L., assignor.)
Loehr, Clarence D., Laporte, Ind. Nut-lock. No. 949,741; Feb. 15; Sp. p. 4086; Gaz. vol. 151; p. 708.
Loesekann, Gerhard, Hanover, Germany. Making artificial cryolite. No. 969,381; Sept. 6; Sp. p. 497; Gaz. vol. 158; p. 79.
Loetzer, Christian E., and W. T. Goodnow; said Loetzer assignor to said Goodnow, Sayre, Pa. Lifting-jack. No. 971,286; Sept. 27; Sp. p. 4560; Gaz. vol. 158; p. 798.
Loew, Charles H., Lakewood, Ohio. Filter-producing apparatus. No. 959,021; May 24; Sp. p. 5654; Gaz. vol. 154; p. 950.
Loew, Charles H., G. R. Lawrence, and H. Brunner, assignors to The Loew Manufacturing Co., Cleveland, Ohio. Bottle-washing apparatus. No. 950,934; Mar. 1; Sp. p. 987; Gaz. vol. 152; p. 158.
Loew Manufacturing Co., The. (See Loew, Lawrence, and Brunner, assignors.)
Loew Manufacturing Company, The. (See Neff, Peter, assignor.)
Loew Manufacturing Company, The. (See Pinkney, Bryan D., assignor.)
Loewe, Philip, Chippewa Falls, Wis. Ear-muff. No. 958,263; May 17; Sp. p. 3943; Gaz. vol. 154; p. 664.
Loewenbach, Hugo. (See Schilz, Frank, assignor.)
Loewenbach, Oscar, Milwaukee, Wis. Detachable cover for pads, books, &c. No. 964,668; July 19; Sp. p. 3569; Gaz. vol. 156; p. 611.
Loewenberg, Alfred, assignor to W. Meyer, Chicago, Ill. Screw-driver attachment. No. 955,520; Apr. 19; Sp. p. 3934; Gaz. vol. 153; p. 690.
Loewenstein, Louis C., Lynn, Mass., and L. H. Dyer, Greenwich, Conn., assignors to General Electric Company. Elastic-fluid turbine. No. 960,357; June 7; Sp. p. 242; Gaz. vol. 155; p. 42.
Loewenstein, Max. (See Landgraff, Henry M., assignor.)
Loewer, Henry F., Rochester, N. Y. Machine for turning irregular forms. No. 963,601; July 5; Sp. p. 1285; Gaz. vol. 156; p. 197.
Loewer, Henry F., Rochester, N. Y. Last-lathe. No. 968,672; Aug. 30; Sp. p. 6048; Gaz. vol. 157; p. 1062.
Loff, John A. (See Agersburg and Loff.)
Lofland, Samuel E., Kansas City, Kans. Cover-clamp. No. 953,536; Mar. 29; Sp. p. 6373; Gaz. vol. 152; p. 1141.
Loftin, William H., assignor of one-half to W. H. Taylor, Jacksonville, Fla. Adjustable crutch. No. 973,283; Oct. 18; Sp. p. 3909; Gaz. vol. 159; p. 669.
Lofton, Herbert M., Atlanta, Ga. Shingle-machine. No. 950,672; Mar. 1; Sp. p. 444; Gaz. vol. 152; p. 72.
Lofton, Herbert M., Atlanta, Ga. Gearing. No. 968,962; Aug. 30; Sp. p. 6651; Gaz. vol. 157; p. 1158.
Lofton, Herbert M., Chattanooga, Tenn. Meter-box. No. 978,384; Dec. 13; Sp. p. 2094; Gaz. vol. 161; p. 365.
Lofton, Herbert M., Chattanooga, Tenn. Fire-hydrant. No. 978,385; Dec. 13; Sp. p. 2097; Gaz. vol. 161; p. 365.
Loftus, Charles T., *et al.* (See Loftus, Thomas J., assignor.)
Loftus, John, Albany, N. Y. Internal-combustion engine. No. 963,449; July 5; Sp. p. 976; Gaz. vol. 156; p. 146.
Loftus, John, Albany, N. Y., assignor of one-half to A. Hughes, Philadelphia, Pa. Smoke-consuming apparatus for locomotives. No. 973,947; Oct. 25; Sp. p. 5306; Gaz. vol. 159; p. 922.
Loftus, Thomas J., assignor of one-half to C. T. Loftus, Castella, and one-half to H. Bell, Oakland, Cal. Turbine-motor. No. 977,107; Nov. 29; Sp. p. 6697; Gaz. vol. 160; p. 1140.
Loftus, Thomas J., assignor of one-half to C. T. Loftus, Castella, and one-half to H. Bell, Oakland, Cal. Turbine-motor and pressure device. No. 978,044; Dec. 6; Sp. p. 1339; Gaz. vol. 161; p. 215.
Loga, Chester F. (See Richards and Loga.)
Logan, Albert J., and R. B. Harrison, Pittsburg, Pa. Metal bedstead. No. 950,625; Mar. 1; Sp. p. 345; Gaz. vol. 152; p. 56.
Logan, Amanda R., East Chelmsford, and M. A. L. Barrelle, North Reading, Mass. Cushion for bed-pans. No. 967,533; Aug. 16; Sp. p. 3630; Gaz. vol. 157; p. 624.
Logan, George A., Cambridge, Mass. Safety-razor. No. 968,578; Aug. 30; Sp. p. 5838; Gaz. vol. 157; p. 1029.
Logan, James. (See Kleim, Gustav, assignor.) (Reissue.)
Logan, John T., Texarkana, Tex. Apparatus for preserving wooden poles. No. 956,382; Apr. 26; Sp. p. 5847; Gaz. vol. 153; p. 1016.
Logan, Judson C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 957,226; May 10; Sp. p. 1580; Gaz. vol. 154; p. 279.
Logan, Marshall, Plymouth, Ind. Door-stay. No. 952,705; Mar. 22; Sp. p. 4583; Gaz. vol. 152; p. 831.
Logan, Martin, New York, N. Y. Tide-water motor. No. 973,869; Oct. 25; Sp. p. 5150; Gaz. vol. 159; p. 895.
Logan, Merritt M., Springfield, Mo. Hand-planter. No. 954,576; Apr. 12; Sp. p. 1874; Gaz. vol. 153; p. 335.
Logan, Samuel C., Lisbon Falls, Me. Washboiler. No. 948,897; Feb. 8; Sp. p. 2359; Gaz. vol. 151; p. 401.
Logan, William C., Headen, Ga. Fly-trap. No. 952,454; Mar. 22; Sp. p. 4021; Gaz. vol. 152; p. 744.
Loggie, George W., Somerville, assignor to Kinkead Manufacturing Company, Boston, Mass. Centering-pin cap for telescopes. No. 970,631; Sept. 20; Sp. p. 3205; Gaz. vol. 158; p. 551.
Lohman, Anthony, assignor to W. W. Gibbs, Philadelphia, Pa. Ozonizer. No. 955,818; Apr. 19; Sp. p. 4585; Gaz. vol. 153; p. 792.
Lohman, Fred, Los Angeles, Cal. Gage. No. 956,116; Apr. 26; Sp. p. 5254; Gaz. vol. 153; p. 924.
Lohmann, Albert. (See Benjaminowitsch, Wolff, assignor.)
Lohmann, Alfred P., Akron, Ohio. Anchoring device for use in connection with concrete structures. No. 950,771; Mar. 1; Sp. p. 669; Gaz. vol. 152; p. 107.
Lohr, Carl A., Chicago, Ill. Synchronous induction-motor. No. 971,056; Sept. 27; Sp. p. 4084; Gaz. vol. 158; p. 723.
Loiseau, Oscar, Sclaigneaux, Belgium. Manufacture of zinc. No. 947,831; Feb. 1; Sp. p. 88; Gaz. vol. 151; p. 19.
Lokey, Robert R., Sparks, Okla. Manure-distributer. No. 961,506; June 14; Sp. p. 2611; Gaz. vol. 155; p. 456.
Lokody, John, Hooversville, Pa. Milk-can lock. No. 965,590; July 26; Sp. p. 5618; Gaz. vol. 156; p. 956.
Loktile Company, The. (See Eggers, Anton C., assignor.)
Lomax, Fred, Chicago, Ill. Refrigerator. No. 955,174; Apr. 19; Sp. p. 3184; Gaz. vol. 153; p. 572.
Lomax, Roger W., Lynchburg, Va. Apparatus for receiving and delivering mail. No. 960,180; May 31; Sp. p. 8125; Gaz. vol. 154; p. 1366.
Lomax, Roger W., Lynchburg, Va. Folding car-step. No. 976,195; Nov. 22; Sp. p. 4646; Gaz. vol. 160; p. 800.
Lomax, Roger W., Lynchburg, Va. Apparatus for delivering mail to moving cars. No. 978,911; Dec. 20; Sp. p. 3194; Gaz. vol. 161; p. 567.
Lomax, Roger W., Lynchburg, Va. Apparatus for delivering mail from moving cars. No. 979,179; Dec. 20; Sp. p. 3839; Gaz. vol. 161; p. 664.
Lomax, William A., Kearney, Nebr. Gage. No. 955,175; Apr. 19; Sp. p. 3186; Gaz. vol. 153; p. 572.
Lomb, Carl F., Rochester, and W. J. Lausterer, Jamestown, assignors to Empire Voting Machine Company, Rochester, N. Y. Lock-out for voting-machines. No. 950,157; Feb. 22; Sp. p. 5047; Gaz. vol. 151; p. 887.
Lombard, Alvin O., Waterville, Me. Machine for making roads. No. 945,560; Jan. 4; Sp. p. 1197; Gaz. vol. 150; p. 185.
Lombard, Alvin O., Waterville, Me. Sled for carrying logs. No. 955,601; Apr. 19; Sp. p. 4122; Gaz. vol. 153; p. 717.
Lombard, Charles A., assignor of one-half to I. Isaacs, Boston, Mass. Machine for surfacing leather. No. 963,303; July 5; Sp. p. 684; Gaz. vol. 156; p. 97.
Lombard, Ernest C., New York, N. Y. Dental forceps. No. 959,365; May 24; Sp. p. 6366; Gaz. vol. 154; p. 1064.
Lombard, Nathaniel, Winthrop, Mass. Governor. No. 960,358; June 7; Sp. p. 244; Gaz. vol. 155; p. 42.
Lombard, Nathaniel, Winthrop, Mass. Motor. No. 962,711; June 28; Sp. p. 5231; Gaz. vol. 155; p. 913.
Lombard, Percival H., Brighton, Colo. Moistening device. No. 948,110; Feb. 1; Sp. p. 688; Gaz. vol. 151; p. 112.
Lombard, Victor E., Fort Smith, Ark. Smoke separator and purifier. No. 970,519; Sept. 20; Sp. p. 2936; Gaz. vol. 158; p. 512.
Lombard, Victor E., Forth Smith, Ark. Smoke and fume consuming apparatus. No. 970,520; Sept. 20; Sp. p. 2938; Gaz. vol. 158; p. 512.
Lombard, Walter E., Arlington, Mass. Flagstaff. No. 964,035; July 12; Sp. p. 2222; Gaz. vol. 156; p. 366.
Lomberk, Alois and R., and C. Theringer, assignors to Empire Sash & Door Co., Newark, N. J. Screen. No. 946,971; Jan. 18; Sp. p. 4402; Gaz. vol. 150; p. 724.
Lomberk, Raimund. (See Lomberk and Theringer.)
Lommel, Wilhelm, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Leuco derivative of diethylgallocyanin. No. 961,361; June 14; Sp. p. 2311; Gaz. vol. 155; p. 408.
Lommel, Wilhelm, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Gallocyanin dye. No. 961,362; June 14; Sp. p. 2312; Gaz. vol. 155; p. 408.
Lommel, Wilhelm, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Leuco diethylgallocyanin. No. 962,712; June 28; Sp. p. 5234; Gaz. vol. 155; p. 914.

Alphabetical list of patentees—Continued.

Londick, John H., Alma, Mich. Valve-gear and ignition mechanism. No. 976,478; Nov. 22; Sp. p. 5304; Gaz. vol. 160; p. 900.

London, Philip, New York, N. Y. Embroidery-backing. No. 961,974; June 21; Sp. p. 3610; Gaz. vol. 155; p. 635.

London, William J. A., Manchester, England, assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 969,891; Sept. 13; Sp. p. 1616; Gaz. vol. 158; p. 279.

London, William J. A., Hartford, Conn., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 972,788; Oct. 11; Sp. p. 2763; Gaz. vol. 159; p. 470.

Long Arm System Company, The. (See Kirk, Robert H., assignor.)

Long, August, Bayonne, N. J. Automatic chemical air-lift. No. 979,867; Dec. 27; Sp. p. 5315; Gaz. vol. 161; p. 919.

Long, Charles W. (See Reinoehl and Long.)

Long, E. H. (See Paulus, Hattie, assignor.)

Long, Frank B., Los Angeles, Cal. Piano-action. No. 947,644; Jan. 25; Sp. p. 5889; Gaz. vol. 150; p. 977.

Long, Frank S., U. S. Army. Ship-detector. No. 948,424; Feb. 8; Sp. p. 1356; Gaz. vol. 151; p. 242.

Long Furniture Company, The. (See Weeks, John B., assignor.)

Long, George R. (See Cordley and Long.)

Long, George R., assignor to Scovill Manufacturing Company, Waterbury, Conn. Push-faucet. No. 953,342; Mar. 29; Sp. p. 5944; Gaz. vol. 152; p. 1072.

Long, George R., Waterbury, Conn., and C. A. Austin, New York, N. Y., assignors to Scovill Manufacturing Company, Waterbury, Conn. Universal joint. No. 947,751; Jan. 25; Sp. p. 6067; Gaz. vol. 150; p. 1012.

Long, Harley A. (See Kline and Long.)

Long, Henry H., La Crosse, Wis. Folding camp-stove. No. 961,975; June 21; Sp. p. 3611; Gaz. vol. 155; p. 635.

Long, Howard M., Albion, Mich. Cover. No. 967,211; Aug. 16; Sp. p. 2965; Gaz. vol. 157; p. 513.

Long, James A., Fair Mount, Ga. Artificial leg. No. 966,225; Aug. 2; Sp. p. 820; Gaz. vol. 157; p. 130.

Long, John R., Warren, Pa. Bench-vise. No. 958,658; May 17; Sp. p. 4866; Gaz. vol. 154; p. 799.

Long, John R., Akron, Ohio. Bench-vise. No. 958,659; May 17; Sp. p. 4867; Gaz. vol. 154; p. 799.

Long, John R., assignor to W. R. Rogers, J. P. Rogers, and A. A. Printz, Warren, Pa. Wrench. No. 955,974; Apr. 26; Sp. p. 4956; Gaz. vol. 153; p. 876.

Long, Joseph B. (See Todd, Frank, assignor.)

Long, Joseph B., and F. Todd, assignors to Long Manufacturing Company, Chicago, Ill. Radiator for automobiles. No. 964,799; July 19; Sp. p. 3946; Gaz. vol. 156; p. 656.

Long, Latimer H., Louisville, Ky. Smoke-preventer. No. 963,602; July 5; Sp. p. 1288; Gaz. vol. 156; p. 198.

Long, Malcolm W. (See Reinoehl and Long.)

Long Manufacturing Company. (See Long and Todd, assignors.)

Long, Nim R., Troy, Mo. Calculating device. No. 979,678; Dec. 27; Sp. p. 4878; Gaz. vol. 161; p. 855.

Long, Oregon W. (See Jordan, William A., assignor.)

Long, Sidney L., Minneapolis, Minn. Stamp-vending machine. No. 954,816; Apr. 12; Sp. p. 2449; Gaz. vol. 153; p. 419.

Long, Spalding K. (See Pierce, Alfred L., assignor.)

Long, Thomas P., assignor of one-half to W. M. Huffman, Barberton, Ohio. Valve. No. 962,368; June 21; Sp. p. 4463; Gaz. vol. 155; p. 769.

Long, William H., assignor of one-half to H. E. Fahrenholtz, Harvel, Ill. Attachment for vehicles. No. 973,360; Oct. 18; Sp. p. 4065; Gaz. vol. 159; p. 696.

Long, William N., Eugene, Oreg. Tank-valve. No. 968,963; Aug. 30; Sp. p. 6656; Gaz. vol. 157; p. 1159.

Long, Zourie H. (See Welsh and Long.)

Longbrake, Frank. (See Crates and Longbrake.)

Longhurst, Henry A. (See Holbourns and Longhurst.)

Longstreet, John H., Germantown, Pa. Portable sawing-machine. No. 955,975; Apr. 26; Sp. p. 4957; Gaz. vol. 153; p. 876.

Longstreet, John H., Germantown, Pa. Portable sawing-machine. No. 961,870; June 21; Sp. p. 3399; Gaz. vol. 155; p. 601.

Longstreth, Charles B., assignor of one-third to H. B. Pruden and one-third to E. R. Lines, Dayton, Ohio. Computing-scale-illuminating device. No. 946,447; Jan. 11; Sp. p. 3245; Gaz. vol. 150; p. 522.

Longtine, Robert V., Los Angeles, Cal., assignor of one-half to F. E. Windsor, Warren, Pa., and one-half to W. R. Guiberson, Coalinga, Cal. Device for controlling engines. No. 960,653; June 7; Sp. p. 846; Gaz. vol. 155; p. 139.

Lonney, Thomas F., assignor to G. Upington, Brooklyn, N. Y. Universal dredging-machine. No. 969,171; Sept. 6; Sp. p. 45; Gaz. vol. 158; p. 10.

Lonney, Thomas F., assignor to G. Upington, Brooklyn, N. Y. Excavating-machine. No. 969,172; Sept. 6; Sp. p. 45; Gaz. vol. 158; p. 10.

Lonzo, William, Fitchburg, assignor to John L. Parker Company, Worcester, Mass. Smash-preventer for looms. No. 947,003; Jan. 18; Sp. p. 4458; Gaz. vol. 150; p. 734.

Loock, August, Hayfield, Iowa. Nut-cutter. No. 951,016; Mar. 1; Sp. p. 1136; Gaz. vol. 152; p. 184.

Look, Frank N., *et al.*, trustees. (See Schwartz, Herman M., assignor.)

Lookabaugh, Frank H., Leechburg, Pa. Rail-joint. No. 973,948; Oct. 25; Sp. p. 5310; Gaz. vol. 159; p. 922.

Looker, David W., Maryville, Mo. Post-hole auger. No. 946,060; Jan. 11; Sp. p. 2323; Gaz. vol. 150; p. 386.

Looker, William F., Portland, Oreg. Road-culvert. No. 971,456; Sept. 27; Sp. p. 4871; Gaz. vol. 158; p. 853.

Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Combined friction and positive clutch. No. 952,535; Mar. 22; Sp. p. 4207; Gaz. vol. 152; p. 772.

Loomis, Alonzo L., *et al.* (See Lennox, Talbot, assignor.)

Loomis, Burdett, Hartford, Conn., assignor to Loomis Utilization Company. Apparatus for manufacturing gas. No. 971,858; Oct. 4; Sp. p. 736; Gaz. vol. 159; p. 128.

Loomis, Edwin C. (See Ford, George R., assignor.) (Reissue.)

Loomis, Frederick J., Yonkers, N. Y. Condenser. No. 946,238; Jan. 11; Sp. p. 2702; Gaz. vol. 150; p. 449.

Loomis, George D., Tiffin, Ohio. Well-drilling machine. No. 948,425; Feb. 8; Sp. p. 1364; Gaz. vol. 151; p. 243.

Loomis, Gilbert J., assignor to The Modern Tool Company, Erie, Pa. Internal-combustion engine. No. 951,252; Mar. 8; Sp. p. 1591; Gaz. vol. 152; p. 284.

Loomis, Harry T., assignor to Frank & Lambert, New York, N. Y. Necktie. No. 967,792; Aug. 16; Sp. p. 4144; Gaz. vol. 157; p. 710.

Loomis, Loira C., Keosauqua, Iowa. Ditching and tile machine. No. 946,609; Jan. 18; Sp. p. 3573; Gaz. vol. 150; p. 601.

Loomis, Merton W. (See Kemp, Loomis, and Fitzwater.)

Loomis Pettibone Company. (See Straub, Constantine L., assignor.)

Loomis, Sidney W., Sioux Falls, S. D. Fence-post. No. 962,905; June 28; Sp. p. 5604; Gaz. vol. 155; p. 981.

Loomis Utilization Company. (See Loomis, Burdett, assignor.)

Loomis, William E., Sherbrooke, Quebec, Canada. Brick-mold conveying and dumping apparatus. No. 969,071; Aug. 30; Sp. p. 6874; Gaz. vol. 157; p. 1197.

Loomis, William E., Sherbrooke, Quebec, Canada. Method or system of conveying and dumping brick-molds. No. 969,072; Aug. 30; Sp. p. 6877; Gaz. vol. 157; p. 1197.

Loose, Jacob L., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Food product. No. 969,173; Sept. 6; Sp. p. 63; Gaz. vol. 158; p. 11.

Loose, Robert D., Chicago, Ill. Auxiliary mixer for internal-combustion motors. No. 959,950; May 31; Sp. p. 7637; Gaz. vol. 154; p. 1288.

Loose-Wiles Biscuit Company. (See Loose, Jacob L., assignor.)

Loose-Wiles Biscuit Company. (See Lynch, John J., assignor.)

Lopizich, John, Los Angeles, Cal. Ear-plug for bathers. No. 955,276; Apr. 19; Sp. p. 3411; Gaz. vol. 153; p. 606.

Lorain Steel Company, The. (See Brown, William M., assignor.)

Lorain Steel Company, The. (See Goughnour, Heenan S., assignor.)

Lorain Steel Company, The. (See Murray, Archie R., assignor.)

Lord, Charles A., Seattle, Wash. Pipe. No. 958,264; May 17; Sp. p. 3944; Gaz. vol. 154; p. 664.

Lord, Charles E., Norwood, Ohio, assignor to Allis-Chalmers Company. Motor-control system. No. 945,103; Jan. 4; Sp. p. 200; Gaz. vol. 150; p. 34.

Lord, Charles E., Norwood, Ohio, assignor to Allis-Chalmers Company. Fluid-pressure system. No. 969,788; Sept. 13; Sp. p. 1384; Gaz. vol. 158; p. 242.

Lord, Charles E., Milwaukee, Wis., assignor to Allis-Chalmers Company. Commutator bar and lead. No. 969,892; Sept. 13; Sp. p. 1618; Gaz. vol. 158; p. 279.

Lord, Hugh C., Erie, Pa. Target-trap. No. 956,117; Apr. 26; Sp. p. 5256; Gaz. vol. 153; p. 925.

Lord, Hugh C., assignor to The Tribune Trap & Target Company, Erie, Pa. Target. No. 960,359; June 7; Sp. p. 253; Gaz. vol. 155; p. 42.

Lord, Justin M., and C. H. Jones, St. Johnsbury, Vt. Steam-boiler. No. 956,383; Apr. 26; Sp. p. 5849; Gaz. vol. 153; p. 1016.

Lore, Reuben J., Clarksville, Iowa. Brooder. No. 969,710; Sept. 6; Sp. p. 1172; Gaz. vol. 158; p. 190.

Lorentz, Henry E., Baltimore, Md. Cord-holder. No. 947,111; Jan. 18; Sp. p. 4657; Gaz. vol. 150; p. 768.

Lorenz, Hans, Langfuhr-Danzig, Germany. Turbine or centrifugal pump. No. 963,378; July 5; Sp. p. 929; Gaz. vol. 156; p. 123.

Lorenz, Henry W. F., Jersey City, N. J. Sensitive safety-print and process. No. 967,793; Aug. 16; Sp. p. 4145; Gaz. vol. 157; p. 710.

Lorenz, Henry W. F., Jersey City, N. J. Sensitive safety-lithoprint and process. No. 967,794; Aug. 16; Sp. p. 4147; Gaz. vol. 157; p. 711.

Lorenz, Henry W. F., Jersey City, N. J. Sensitive safety-print. No. 969,549; Sept. 6; Sp. p. 857; Gaz. vol. 158; p. 135.

Alphabetical list of patentees—Continued.

Lorenz, Peter A., Chicago, Ill. Shelving. No. 975,053; Nov. 8; Sp. p. 2218; Gaz. vol. 160; p. 361.
Lorenz, Peter A., and W. T. Callaghan, Chicago, Ill. Safety-deposit box. No. 950,935; Mar. 1; Sp. p. 994; Gaz. vol. 152; p. 159.
Lorenz, William A., *et al.* (See Honiss, William H., assignor.)
Lorenzen, Peter A., assignor of one-half to G. Meggers, Sheboygan, Wis. Stanchion. No. 949,586; Feb. 15; Sp. p. 3779; Gaz. vol. 151; p. 657.
Lorimer, George W., Piqua, assignor, by mesne assignments, to The Sand Mixing Machine Company, Greenfield, Ohio. Sand-cutting machine. No. 973,523; Oct. 25; Sp. p. 4430; Gaz. vol. 159; p. 774.
Loring, Benjamin C., Edgewood, assignor to J. Tillinghast, Providence, R. I. Ice-protector for sand-spouts. No. 964,985; July 19; Sp. p. 4310; Gaz. vol. 156; p. 720.
Lorraine, Clarence L., East Jordan, Mich. Voting-machine. No. 964,986; July 19; Sp. p. 4311; Gaz. vol. 156; p. 720.
Los Angeles Meter Company. (See Henning, Abel, assignor.)
Los Angeles Rotary Gas Engine Company. (See Forbes, Thomas C., assignor.)
Los Angeles Trolley Catcher Company. (See Ricketts, James R., assignor.)
Lose, William H., Zelienople, assignor to Iron City Sanitary Manufacturing Company, Pittsburg, Pa. Molding apparatus. No. 971,907; Oct. 4; Sp. p. 856; Gaz. vol. 159; p. 146.
Loshbough, Anthony W., Detroit, assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Collapsible baby-carriage. No. 947,832; Feb. 1; Sp. p. 90; Gaz. vol. 151; p. 19.
Loshbough, Anthony W., Detroit, assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Collapsible baby-carriage. No. 948,070; Feb. 1; Sp. p. 610; Gaz. vol. 151; p. 98.
Loske, Rudolf, Brooklyn, N. Y. Tobacco-pipe. No. 970,632; Sept. 20; Sp. p. 3206; Gaz. vol. 158; p. 551.
Lostalot, Henri de. (See Peugeot, Huber, and Lostalot.)
Lothamer, Edward O., Canton, Ohio. Dental swaging-machine. No. 950,294; Feb. 22; Sp. p. 5332; Gaz. vol. 151; p. 935.
Lott, Albert F. (See Stafford and Lott.)
Lott, Andrew G., Camden, assignor of one-half to J. A. Handley, Jr., Barnes, Tex. Car-door. No. 969,711; Sept. 6; Sp. p. 1174; Gaz. vol. 158; p. 191.
Lott, George W., Walker, Minn. Identifying device. No. 948,099; Feb. 1; Sp. p. 668; Gaz. vol. 151; p. 108.
Lotz, Augustus, San Francisco, Cal. Pneumatic cleaner. No. 956,535; May 3; Sp. p. 56; Gaz. vol. 154; p. 12.
Lotz, Hermen F., Ironton, Mo. Corn-planter. No. 956,713; May 3; Sp. p. 462; Gaz. vol. 154; p. 74.
Lotz, Samuel. (See Frey and Lotz.)
Loub, Martin F., *et al.* (See Dorsey, Walter W. and J. C., assignors.)
Loud, Henry S., Morristown, N. J., and J. Panter, Stretford, Manchester, England, assignors to The Westinghouse Machine Company. Turbine blade and vane. No. 953,016; Mar. 22; Sp. p. 5222; Gaz. vol. 152; p. 936.
Louden, Arthur F. D., assignor of one-third to V. S. Sobieck and one-third to J. F. Crisp, Fargo, N. D. Excavating-machine. No. 962,156; June 21; Sp. p. 4030; Gaz. vol. 155; p. 699.
Louden Machinery Company. (See Neller, Albert H., assignor.)
Louden, Thomas, Fairfield, Iowa. Carrier for green-clay products. No. 945,561; Jan. 4; Sp. p. 1199; Gaz. vol. 150; p. 185.
Loudenclos, Edward, Pasadena, Cal. Motor-cycle shock-absorber. No. 962,443; June 28; Sp. p. 4652; Gaz. vol. 155; p. 821.
Loudenslager, William J., Jacksonburg, assignor to D. Carmichael and W. Carlin, Smithfield, W. Va. Bread-raising cabinet. No. 966,341; Aug. 2; Sp. p. 1025; Gaz. vol. 157; p. 166.
Loudon, Archibald M. (See Gow, John, assignor.)
Loufek, Joseph, Atchison, Kans. Separating mechanism. No. 951,321; Mar. 8; Sp. p. 1752; Gaz. vol. 152; p. 308.
Lougee, Amanda M. (See Zickerman, Wilhelm A., assignor.)
Lougee, Frederick G. (See Read and Lougee.)
Lougee, William S., Rochester, assignor to J. Spaulding & Sons Company, Milton, N. H. Shoe-form. No. 967,795; Aug. 16; Sp. p. 4150; Gaz. vol. 157; p. 711.
Loughborough, Leroy R., Rochester, N. Y. Fire-escape door. No. 974,404; Nov. 1; Sp. p. 728; Gaz. vol. 160; p. 111.
Loughead, George W. (See White, Arthur M., assignor.)
Loughney, Albert M., Seattle, Wash. Abdominal-fat-reducing appliance. No. 951,648; Mar. 8; Sp. p. 2402; Gaz. vol. 152; p. 416.
Louis Hanson Company. (See Hanson, Martin, assignor.)
Loutzky, Boris, Berlin, Germany. Automatic reversing-gear for motors. No. 954,867; Apr. 12; Sp. p. 2573; Gaz. vol. 153; p. 438.
Louvet, Desire V. (See D'Orbessan and Louvet.)
Louvrier, François, Mexico, Mexico. Electrometallurgical furnace. No. 978,464; Dec. 13; Sp. p. 2259; Gaz. vol. 161; p. 391.
Louvrier, François, Mexico, Mexico. Electrometallurgical furnace. No. 978,465; Dec. 13; Sp. p. 2261; Gaz. vol. 161; p. 392.
Lovatt, Bernard, assignor to American Sanitary Supply Company, New York, N. Y. Vending-machine. No. 952,536; Mar. 22; Sp. p. 4210; Gaz. vol. 152; p. 772.
Lovatt, Bernard, assignor to American Sanitary Supply Company, New York, N. Y. Coin-controlled mechanism for vending-machines. No. 952,537; Mar. 22; Sp. p. 4214; Gaz. vol. 152; p. 773.
Lovatt, William B., Weatherly, D. A. Rehrig, Mahoning township, Carbon county, and P. F. Rehrig, Lehighton, Pa. Attachment for quilling-machines. No. 953,914; Apr. 5; Sp. p. 456; Gaz. vol. 153; p. 83.
Love Brothers. (See Love, Joy, assignor.)
Love, C. D., *et al.* (See Minnis, Henry M., assignor.)
Love, Clyde D., Newark, N. J. Closure. No. 958,513; May 17; Sp. p. 4591; Gaz. vol. 154; p. 753.
Love, Edgar, Darlington, Ind. Fence-clamp. No. 977,958; Dec. 6; Sp. p. 1169; Gaz. vol. 161; p. 187.
Love, John D., Athens, Ohio. Brace for cross-arms. No. 958,933; May 24; Sp. p. 5491; Gaz. vol. 154; p. 921.
Love, John T., assignor to W. H. Flint and J. W. Conway, Charlotte, N. C. Compressor. No. 964,987; July 19; Sp. p. 4318; Gaz. vol. 156; p. 721.
Love, Joy, assignor to Love Brothers, Aurora, Ill. Awning-sash construction. No. 975,547; Nov. 15; Sp. p. 3285; Gaz. vol. 160; p. 557.
Love, Matthew T. (See Brucker and Love.)
Love, R. Homer. (See Page, Harry, assignor.)
Love, Robert B., Antioch, Cal. Automobile safety device. No. 947,112; Jan. 18; Sp. p. 4659; Gaz. vol. 150; p. 769.
Lovejoy, Dimmitt R., Irvington, N. Y. Push-button. No. 955,521; Apr. 19; Sp. p. 3936; Gaz. vol. 153; p. 690.
Lovejoy, Dimnitt R., Irvington, assignor to U. S. E. M. Co., New York, N. Y. Push-button. No. 960,654; June 7; Sp. p. 847; Gaz. vol. 155; p. 139.
Lovejoy, Henry L., Melrose, Mass. Sight for firearms. No. 971,287; Sept. 27; Sp. p. 4563; Gaz. vol. 158; p. 798.
Lovejoy, Thomas H., Chicago, Ill. Lifting-jack. No. 975,548; Nov. 15; Sp. p. 3287; Gaz. vol. 160; p. 557.
Lovelace, Charles D., San Angelo, Tex. Trap-gun. No. 975,967; Nov. 15; Sp. p. 4142; Gaz. vol. 160; p. 700.
Loveless, Oliver A., Watersmeet, Mich. Portable acetylene-gas generator. No. 956,384; Apr. 26; Sp. p. 5850; Gaz. vol. 153; p. 1017.
Lovell & Buffington Tobacco Company, The. (See Averbeck and Ginn, assignors.)
Lovell & Buffington Tobacco Company. (See Ginn, Blanch W., assignor.)
Lovell, Edward C., Bristol, England. Machine for labeling packets, tins, or the like. No. 948,061; Feb. 1; Sp. p. 592; Gaz. vol. 151; p. 95.
Lovell, Robert M., assignor of one-half to H. Kolb, Baltimore, Md. Burner for gas-stoves. No. 972,882; Oct. 18; Sp. p. 2995; Gaz. vol. 159; p. 530.
Lovell, Rolfe, San Diego, Cal. Fire-hose carrier and spanner. No. 967,796; Aug. 16; Sp. p. 4152; Gaz. vol. 157; p. 711.
Loveridge, George S., Fennville, Mich. Electric call and alarm system. No. 977,809; Dec. 6; Sp. p. 848; Gaz. vol. 161; p. 133.
Lovett, David W., assignor of one-half to A. C. Ryan, Ensley, Ala. Nut-lock. No. 976,584; Nov. 22; Sp. p. 5537; Gaz. vol. 160; p. 935.
Lovett, Lewis L., assignor of one-half to G. H. Close, Schenectady, N. Y. Lawn-mower. No. 956,385. Apr. 26; Sp. p. 5851; Gaz. vol. 153; p. 1017.
Lovett, Renix W., Cincinnati, Ohio. Clamp for mending broken trolley-poles and other articles. No. 958,751; May 24; Sp. p. 5067; Gaz. vol. 154; p. 856.
Lovett, Thomas J., Chicago, Ill. Treating ore. No. 979,180; Dec. 20; Sp. p. 3842; Gaz. vol. 161; p. 665.
Lovett, Thomas J., assignor to Black Sand and Gold Recovery Company, Chicago, Ill. Pipe-dredge. No. 967,797; Aug. 16; Sp. p. 4153; Gaz. vol. 157; p. 711.
Low, Abbot A. (See Hertzberg, Low, and Wohl.)
Low, Abbot A. (See Johnson and Low.)
Low, Abbot A., *et al.*, trustees. (See Hertzberg, Harry, assignor.)
Low, Abbot A., *et al.*, trustees. (See Hertzberg and Wohl, assignors.)
Low, Abbot A., *et al.*, trustees. (See Wohl and Hertzberg, assignors.)
Low, Abbot A., Horseshoe, N. Y. Desk furniture. No. 946,448; Jan. 11; Sp. p. 3248; Gaz. vol. 150; p. 522.
Low, Abbot A., Horseshoe, N. Y. Desk furniture. No. 946,449; Jan. 11; Sp. p. 3249; Gaz. vol. 150; p. 522.
Low, Abbot A., Horseshoe, N. Y. Apparatus for reducing and packing waste paper. No. 960,026; May 31; Sp. p. 7822; Gaz. vol. 154; p. 1315.
Low, Abbot A., Horseshoe, N. Y. Apparatus for reducing and packing waste paper. No. 960,027; May 31; Sp. p. 7824; Gaz. vol. 154; p. 1315.
Low, Abbot A., Horseshoe, N. Y. Waste-paper receptacle. No. 960,028; May 31; Sp. p. 7826; Gaz. vol. 154; p. 1316.
Low, Abbot A., Horseshoe, N. Y. Economizer. No. 971,682; Oct. 4; Sp. p. 360; Gaz. vol. 159; p. 63.

Alphabetical list of patentees—Continued.

Low, Abbot A., Horseshoe, and H. Hertzberg, New York, N. Y.; said Hertzberg assignor to said Low. Internal-combustion engine. No. 946,239; Jan. 11; Sp. p. 2704; Gaz. vol. 150; p. 450.

Low, Abbot A., Horseshoe, and A. Wassmann, Astoria, N. Y.; said Wassmann assignor to said Low. Means for electrically heating water-cooled combustion-engines. No. 968,780; Aug. 30; Sp. p. 6293; Gaz. vol. 157; p. 1098.

Low, Abbot A., Horseshoe, M. J. Wohl and H. Hertzberg, New York, N. Y., assignors to themselves as trustees. Electrothermal means for producing mechanical movement. No. 954,682; Apr. 12; Sp. p. 2118; Gaz. vol. 153; p. 371.

Low, Abbot A., Horseshoe, M. J. Wohl and H. Hertzberg, New York; said Wohl and Hertzberg assignors to A. A. Low, Horseshoe, N. Y. Vaporizing device. No. 957,786; May 10; Sp. p. 2735; Gaz. vol. 154; p. 468.

Low, Abbot A., Horseshoe, M. J. Wohl and H. Hertzberg, New York, N. Y., assignors to said Low. Vaporizing device. No. 969,893; Sept. 13; Sp. p. 1620; Gaz. vol. 158; p. 279.

Low, Andrew, Newark, N. J. Garden-hose carriage. No. 957,569; May 10; Sp. p. 2281; Gaz. vol. 154; p. 395.

Low, Archibald M., Brook Green, London, England. Electric ignition appliance. No. 971,908; Oct. 4; Sp. p. 858; Gaz. vol. 159; p. 147.

Low, Archibald M., London, England. Charge-forming arrangement for use in internal-combustion engines and turbines. No. 974,087; Oct. 25; Sp. p. 5593; Gaz. vol. 159; p. 969.

Low, Charles J., Chelan, Wash. Means for propelling water-craft. No. 945,104; Jan. 4; Sp. p. 203; Gaz. vol. 150; p. 34.

Low, Joseph C. (See Goodwin and Low.)

Low, Robeson L., trustee. (See Pène, Xavier, assignor.)

Low, Thomas A. (See Soderstrom, Gustaf T., assignor.)

Lowder, Walter J., Somerville, assignor of one-half to C. A. Babb, Lynn, Mass. Card-index. No. 967,945; Aug. 23; Sp. p. 4457; Gaz. vol. 157; p. 784.

Lowdermilk, John E. and V. J., Scottsburg, Ind. Pocket match-box. No. 961,783; June 21; Sp. p. 3187; Gaz. vol. 155; p. 572.

Lowdermilk, Vallie J. (See Lowdermilk, John E. and V. J.)

Lowe, Arthur L. (See Swagerty and Lowe.)

Lowe, Charles E., McAlester, assignor of one-half to W. C. Ellis, Guthrie, Okla. Lubricator for handsaws. No. 946,241; Jan. 11; Sp. p. 2708; Gaz. vol. 150; p. 450.

Lowe, Charles E., McAlester, assignor of one-half to C. D. Ellis, Guthrie, Okla. Post-card. No. 966,107; Aug. 2; Sp. p. 560; Gaz. vol. 157; p. 91.

Lowe, Charles E., McAlester, assignor of one-third to C. D. Ellis and one-third to W. C. Ellis, Guthrie, Okla. Lock. No. 946,240; Jan. 11; Sp. p. 2705; Gaz. vol. 150; p. 450.

Lowe, Charles E., McAlester, assignor of one-third to W. C. Ellis and one-third to C. D. Ellis, Guthrie, Okla. Latch. No. 963,450; July 5; Sp. p. 979; Gaz. vol. 156; p. 147.

Lowe, Charles E., McAlester, assignor of one-third to W. C. Ellis and one-third to C. D. Ellis, Guthrie, Okla. Lock. No. 963,451; July 5; Sp. p. 980; Gaz. vol. 156; p. 147.

Lowe, David, Fitchburg, Mass. Chain-yarn tension device. No. 946,379; Jan. 11; Sp. p. 3100; Gaz. vol. 150; p. 498.

Lowe Electric Company, The. (See Hailey, Robert L., assignor.)

Lowe, John A., Toledo, Ohio. Ironing-board. No. 960,101; May 31; Sp. p. 7973; Gaz. vol. 154; p. 1336.

Lowe, Leon P., San Francisco, Cal. Gas-cleaner. No. 967,212; Aug. 16; Sp. p. 2967; Gaz. vol. 157; p. 514.

Lowe, Leon P., San Francisco, Cal. Making producer-gas. No. 967,213; Aug. 16; Sp. p. 2968; Gaz. vol. 157; p. 514.

Lowe, Leon P., San Francisco, Cal. Fluid-pressure regulator. No. 967,214; Aug. 16; Sp. p. 2969; Gaz. vol. 157; p. 514.

Lowe, Nellie W., Omaha, Nebr. Incinerating receptacle and chute. No. 949,986; Feb. 22; Sp. p. 4691; Gaz. vol. 151; p. 829.

Lowe, Nellie W., Omaha, Nebr. Garbage chute and receptacle. No. 958,265; May 17; Sp. p. 3945; Gaz. vol. 154; p. 664.

Lowe, Purley E., and B. De Young, Houston, Tex. Window-shade and roller. No. 960,228; May 31; Sp. p. 8218; Gaz. vol. 154; p. 1383.

Lowentraut, Anna. (See Koerner, Ferdinand H., assignor.)

Löwi, Edmund, Vienna, Austria-Hungary. Drying apparatus. No. 967,027; Aug. 9; Sp. p. 2582; Gaz. vol. 157; p. 424.

Lowman, Benjamin J., Sheffield, Ala. Cotton-chopper. No. 966,845; Aug. 9; Sp. p. 2200; Gaz. vol. 157; p. 362.

Lowman, John, New Cross, London, England, assignor to Armstrong Cork Company, Pittsburg, Pa. Cork grinding and polishing machine. No. 967,798; Aug. 16; Sp. p. 4154; Gaz. vol. 157; p. 712.

Lowrance, William L., Lewisburg, Tenn., assignor to The Miami Cycle and Mfg. Co., Middletown, Ohio. Crank-shaft and crank-shaft bearing for bicycles. No. 951,137; Mar. 8; Sp. p. 1370; Gaz. vol. 152; p. 249.

Lowres, George J., Newark, N. J., assignor to Lowres Optical Company. Eyeglass-mounting. No. 965,917; Aug. 2; Sp. p. 145; Gaz. vol. 157; p. 25.

Lowres, George J., Newark, N. J., assignor to Lowres Optical Company. Eyeglasses. No. 975,367; Nov. 8; Sp. p. 2889; Gaz. vol. 160; p. 467.

Lowres Optical Company. (See Lowres, George J., assignor.)

Lowrie, Harvey C., New York, N. Y. Safe-door. No. 968,781; Aug. 30; Sp. p. 6296; Gaz. vol. 157; p. 1099.

Lowrie, Harvey C., New York, N. Y. Permutation-lock. No. 975,549; Nov. 15; Sp. p. 3288; Gaz. vol. 160; p. 558.

Lowrie, Wilhelmina. (See Marinsky, Davis, assignor.)

Lowry, Cuthbert B., deceased, (Security Trust Company, administrator,) Lexington, Ky., and R. Bernhard, Cudahy, Wis.; said administrator assignor to S. A. Fletcher, trustee, Indianapolis, Ind. Means for removing free carbon from coal-tar. No. 951,993; Mar. 15; Sp. p. 3116; Gaz. vol. 152; p. 562.

Lowry, Emily D., Philadelphia, Pa. Hose-supporter. No. 977,024; Nov. 29; Sp. p. 6518; Gaz. vol. 160; p. 1112.

Lowry, Frank, Steubenville, assignor to The Ohio Grease Lubricant Company, Loudonville, Ohio. Drop-feed lubricator. No. 946,450; Jan. 11; Sp. p. 3250; Gaz. vol. 150; p. 523.

Lowry, George A., Chicago, Ill., assignor of one-half to J. F. O'Shaughnessy, New York, N. Y. Apparatus for separating and combing grass, straw, and the like. No. 959,240; May 24; Sp. p. 6121; Gaz. vol. 154; p. 1023.

Lowry, Henry, Belfast, Ireland. Pipe-cleaner. No. 978,316; Dec. 13; Sp. p. 1952; Gaz. vol. 161; p. 340.

Lowry, Robert C., and L. F. Winter, New York, N. Y.; said Winter assignor to said Lowry. Bundling-machine. No. 972,389; Oct. 11; Sp. p. 1891; Gaz. vol. 159; p. 332.

Lowry, William D., St. Louis, Mo. Combined friction and spring draft-rigging. No. 964,173; July 12; Sp. p. 2505; Gaz. vol. 156; p. 411.

Lowry, William D., St. Louis, Mo. Side frame for car-trucks. No. 972,770; Oct. 11; Sp. p. 2730; Gaz. vol. 159; p. 464.

Lowry, William D., St. Louis, Mo. Truck-frame. No. 977,204; Nov. 29; Sp. p. 6919; Gaz. vol. 160; p. 1175.

Lowry, William D. P., and F. J. Walling, Minneapolis, Minn. Hitching attachment for wheeled vehicles. No. 961,976; June 21; Sp. p. 3612; Gaz. vol. 155; p. 636.

Lowy, Emil M. (See Leix and Lowy.)

Loxit Company. (See Rathbun, Henry E., assignor.)

Loy, William C. (See Crim and Loy.)

Loyd, John H. (See Breder and Loyd.)

Loyd, Walter L., New York, N. Y. Toy. No. 949,152; Feb. 15; Sp. p. 2890; Gaz. vol. 151; p. 512.

Lozaw, Suldan S., Larksville, Pa. Safety device for elevators. No. 953,537; Mar. 29; Sp. p. 6375; Gaz. vol. 152; p. 1141.

Lozier, Harry J., Tacoma, Wash. Carnation-support. No. 949,239; Feb. 15; Sp. p. 3053; Gaz. vol. 151; p. 540.

Lubbock, William L., Houston, Tex., and S. Hamblen, Portales, N. Mex. Crude-oil burner. No. 970,521; Sept. 20; Sp. p. 2939; Gaz. vol. 158; p. 513.

Lubeck, Carl J., Souris, N. D. Fastener. No. 948,071; Feb. 1; Sp. p. 613; Gaz. vol. 151; p. 99.

Lubin, Siegmund. (See Johnson, Jesse B., assignor.)

Lubinsky, David. (See Epstein and Lubinsky.)

Lubricator Company, The. (See Edwards, Frank W., assignor.)

Lucas, Arthur C., *et al.* (See Bennett, Joseph S., assignor.)

Lucas, Clyde. (See Andrews and Waldrum, assignors.)

Lucas, Emmett W., *et al.* (See Bennett, Joseph S., assignor.)

Lucas, Florion L., Winburne, Pa. Trolley-guard. No. 968,247; Aug. 23; Sp. p. 5152; Gaz. vol. 157; p. 887.

Lucas, Henry M., and J. B. Green, assignors to Lucas Machine Tool Company, Cleveland, Ohio. Gearing for metal-working machines. No. 954,639; Apr. 12; Sp. p. 2027; Gaz. vol. 153; p. 357.

Lucas, John P. and J. A., Browerville, Minn. Horse-power loader. No. 958,882; May 24; Sp. p. 5389; Gaz. vol. 154; p. 904.

Lucas, Joseph A. (See Lucas, John P. and J. A.)

Lucas Machine Tool Company. (See Lucas and Green, assignors.)

Lucas, Owen D., Bayswater, London, England. Atomizer and the like. No. 957,976; May 17; Sp. p. 3206; Gaz. vol. 154; p. 565.

Lucas, Paul, Südende, near Berlin, Germany. Inverted incandescent gas-lamp. No. 977,108; Nov. 29; Sp. p. 6700; Gaz. vol. 160; p. 1140.

Lucas, Ralph, Blackheath, assignor to "Valveless" Limited, London, England. Internal-combustion engine. No. 952,706; Mar. 22; Sp. p. 4584; Gaz. vol. 152; p. 831.

Lucas, Roy G., Plover, Iowa. Wagon-tongue support. No. 973,524; Oct. 25; Sp. p. 4435; Gaz. vol. 159; p. 775.

Lucas, William B., Chicago, Ill. Motor-controller. No. 973,525; Oct. 25; Sp. p. 4436; Gaz. vol. 159; p. 775.

Alphabetical list of patentees—Continued.

Lucas, William W., Academy, S. D. Wagon-loading device. No. 976,666; Nov. 22; Sp. p. 5697; Gaz. vol. 160; p. 964.
Luce, Allen L., Merna, Nebr. Harrow attachment for plows. No. 949,039; Feb. 15; Sp. p. 2664; Gaz. vol. 151; p. 474.
Luce Manufacturing Company. (See Luce, Thomas C., assignor.)
Luce, Reginald M., Denver, Colo. Combination manicure article. No. 971,057; Sept. 27; Sp. p. 4086; Gaz. vol. 158; p. 723.
Luce, Thomas C., assignor to Luce Manufacturing Company, Dalton, Mass. Game apparatus. No. 948,983; Feb. 8; Sp. p. 2528; Gaz. vol. 151; p. 430.
Luce, Thomas C., assignor to Luce Manufacturing Company, Dalton, Mass. Spark-plug. No. 974,802; Nov. 8; Sp. p. 1637; Gaz. vol. 160; p. 274.
Luciani, Jacques, Paris, France. Apparatus for manufacturing artificial ultramarines. No. 968,172; Aug. 23; Sp. p. 4996; Gaz. vol. 157; p. 861.
Luciani, Jacques, Paris, France, assignor to La Société de la Poudre Peigne et des Brevets Jacques Luciani. Manufacture of gunpowder. No. 952,538; Mar. 22; Sp. p. 4215; Gaz. vol. 152; p. 773.
Lucier, David F., assignor to J. Garst, Worcester, Mass. Short-weft fabric and making the same. No. 957,356; May 10; Sp. p. 1857; Gaz. vol. 154; p. 323.
Luck, Harry A., Lewistown, Pa. Nut-lock. No. 976,890; Nov. 29; Sp. p. 6186; Gaz. vol. 160; p. 1065.
Lucke, Charles O., assignor of one-half to J. H. Kimmons, Chicago, Ill. Portable fireproof building. No. 950,140; Feb. 22; Sp. p. 5012; Gaz. vol. 151; p. 881.
Lucke d'Aix, Fritz C., New York, N. Y. Line-casting machine. No. 972,591; Oct. 11; Sp. p. 2368; Gaz. vol. 159; p. 404.
Lucke, William F., Champlain, N. Y., and J. E. Blake, Beverly, Mass., assignors to T. W. and C. B. Sheridan Company. Roll for leather-dressing machines. No. 973,675; Oct. 25; Sp. p. 4756; Gaz. vol. 159; p. 827.
Luckenbach, Royer. (See Brangier and Luckenbach.)
Luckett, James, Brooklyn, N. Y. Fire-escape. No. 951,823; Mar. 15; Sp. p. 2765; Gaz. vol. 152; p. 506.
Luckey, John J., Hood River, Oreg. Cone-lock for ball-bearings. No. 950,071; Feb. 22; Sp. p. 4874; Gaz. vol. 151; p. 858.
Luckwill, Edwin, Cardiff, England. Differential locking-gearing. No. 954,748; Apr. 12; Sp. p. 2285; Gaz. vol. 153; p. 396.
Luden, Jacob C., Reading, Pa. Vacuum-cleaner. No. 950,072; Feb. 12; Sp. p. 4875; Gaz. vol. 151; p. 858.
Luden, Jacob C., Reading, Pa. Suction-nozzle. No. 964,800; July 19; Sp. p. 3949; Gaz. vol. 156; p. 656.
Lüders, Richard, Hamburg, Germany. Making the n-propyl ester of p-aminobenzoic acid. No. 950,936; Mar. 1; Sp. p. 995; Gaz. vol. 152; p. 159.
Ludington, Eliot K., *et al.*, executors. (See Ludington, Francis H.)
Ludington, F. H. (See Marshall, John P., assignor.)
Ludington, Francis H., deceased, (H. N. and E. K. Ludington, executors.) John P. Marshall, and Louis C. Besson, St. Louis, Mo.; said Marshall and Besson assignors to said Ludington. Apparatus for making white lead. No. 978,122; Dec. 6; Sp. p. 1509; Gaz. vol. 161; p. 243.
Ludington, Harriet N., *et al.*, executors. (See Ludington, Francis H.)
Ludington, Raymond, assignor of one-half to E. E. Just, Chicago, Ill. Tooth-brush. No. 949,587; Feb. 15; Sp. p. 3781; Gaz. vol. 151; p. 658.
Ludlam, John O. (See Dorin, Ludlam, and Bonnot.)
Ludlow, Josiah A., Paterson, N. J. Bolt and nut. No. 963,783; July 12; Sp. p. 1679; Gaz. vol. 156; p. 281.
Ludlow, Walter S., *et al.* (See Kaiser, Oliver B., assignor.)
Ludvigsen, Christian U., and P. Sveistrup, Penn Yan, N. Y. Rail-joiner. No. 963,718; July 5; Sp. p. 1516; Gaz. vol. 156; p. 236.
Ludwick, John J., Memphis, Tenn. Cotton-chopper. No. 952,826; Mar. 22; Sp. p. 4850; Gaz. vol. 152; p. 873.
Ludwig & Company. (See Hulder, Joseph P., assignor.)
Ludwig Hupfeld Aktiengesellschaft. (See Frömsdorf, Robert, assignor.)
Ludwig Hupfeld, Aktiengesellschaft. (See Hennig, Ernst A. P., assignor.)
Ludwig Hupfeld Aktiengesellschaft. (See Hennig, Gustav K., assignor.)
Ludwig, John H. (See Maier, Louis H., assignor.)
Ludwig, John S., Bushnell, Ill. Cultivator. No. 961,304; June 14; Sp. p. 2171; Gaz. vol. 155; p. 388.
Ludwig, Nicholas, Denver, Colo. Beer-carbonating device. No. 972,883; Oct. 18; Sp. p. 2996; Gaz. vol. 159; p. 530.
Ludwig, Thomas I., Jackson, Mich. Corn-husker. No. 975,141; Nov. 8; Sp. p. 2408; Gaz. vol. 160; p. 391.
Ludwig, Thomas I., Jackson, Mich. Corn-husker. No. 975,142; Nov. 8; Sp. p. 2410; Gaz. vol. 160; p. 391.
Ludwig, Thomas I., Jackson, Mich. Corn-husker. No. 975,143; Nov. 8; Sp. p. 2412; Gaz. vol. 160; p. 392.
Ludwig, Thomas I., Jackson, Mich. Corn-husker. No. 977,205; Nov. 29; Sp. p. 6921; Gaz. vol. 160; p. 1175.
Ludwig, William H., De Pere, Wis. Door and lock therefor. No. 979,679; Dec. 27; Sp. p. 4880; Gaz. vol. 161; p. 855.
Ludy, Jacob E., *et al.* (See Pitts, Edward L., assignor.)
Luebben, Ummo F., assignor to Patent Holding Company, Lincoln, Nebr. Baling-press. No. 972,884; Oct. 18; Sp. p. 2999; Gaz. vol. 159; p. 531.
Lueckenbach, Anton T., Neenah, Wis. Water-closet bowl. No. 975,550; Nov. 15; Sp. p. 3290; Gaz. vol. 160; p. 558.
Lueckert, John. (See Marks and Lueckert.)
Luedders, Arthur D., Sturgis, Mich. Adjustable reclining-chair. No. 971,288; Sept. 27; Sp. p. 4565; Gaz. vol. 158; p. 799.
Luedders, Arthur D., assignor to J. F. Walton, Sturgis, Mich. Adjustable chair. No. 978,386; Dec. 13; Sp. p. 2102; Gaz. vol. 161; p. 366.
Luehrmann, George E. W., assignor to Wayne Manufacturing Company, St. Louis, Mo. Motor. No. 966,757; Aug. 9; Sp. p. 2014; Gaz. vol. 157; p. 335.
Luehrs, Daniel M., assignor to McCreery Engineering Company, Toledo, Ohio. Spray-head. No. 962,512; June 28; Sp. p. 4795; Gaz. vol. 155; p. 845.
Luelf, William H., Cincinnati, Ohio. Storm-front attachment. No. 946,761; Jan. 18; Sp. p. 3907; Gaz. vol. 150; p. 651.
Luellen, Lawrence W., Newton, Mass. Coin-controlled apparatus. No. 946,242; Jan. 11; Sp. p. 2710; Gaz. vol. 150; p. 451.
Lufkin, Elgood C., *et al.* (See Willet, John G., assignor.)
Lufkin, Richard H., Medford, Mass. Leather-folding machine. No. 962,034; June 21; Sp. p. 3731; Gaz. vol. 155; p. 655.
Lugo-Viña, Edward, Washington, D. C. Aerial transportation. No. 952,539; Mar. 22; Sp. p. 4217; Gaz. vol. 152; p. 773.
Lugo-Viña, Edward, Washington, D. C. Aerial transportation. No. 964,989; July 19; Sp. p. 4326; Gaz. vol. 156; p. 721.
Lukan, Frank. (See Pachinger, Frank, assignor.)
Luke, Richard, assignor to The Beng Company, Chicago, Ill. Crib-hook. No. 971,058; Sept. 27; Sp. p. 4089; Gaz. vol. 158; p. 724.
Luki, Adolph, and F. Wolf, Jr., Clarkson, Nebr. Side-draft equalizer for sulky-plows. No. 976,385; Nov. 22; Sp. p. 5105; Gaz. vol. 160; p. 867.
Lulli, Primo, Uccle, near Brussels, Belgium, assignor, by mesne assignments, to The American Oxhydric Company. Regulating device for gas-mixers. No. 975,444; Nov. 15; Sp. p. 3049; Gaz. vol. 160; p. 521.
Lum, Walter O. (See Yates and Lum.)
Lumbard, M. A. (See Morrison, William, assignor.)
Lumbley, Joseph S. (See Dunlap and Lumbley.)
Lumley, Robert P., and H. G. Hillman, New York, N. Y., assignors to Public Safety Company, Washington, D. C. Circuit-closer. No. 956,118; Apr. 26; Sp. p. 5267; Gaz. vol. 153; p. 925.
Lumley, Robert P., and H. G. Hillman, New York, N. Y., assignors to Public Safety Company, Washington, D. C. Interlocking safety device for elevators. No. 956,536; May 3; Sp. p. 57; Gaz. vol. 154; p. 12.
Lumley, Wilfrid, Conneaut, Ohio. Street-car. No. 956,774; May 3; Sp. p. 590; Gaz. vol. 154; p. 94.
Lummus, Walter E., Lynn, Mass. Boiling-cap. No. 973,795; Oct. 25; Sp. p. 4996; Gaz. vol. 159; p. 869.
Lumpkin, Bert T. (See Furbos and Lumpkin.)
Lumpkin, Edgar, Dallas, Tex. Cotton-gin. No. 961,624; June 14; Sp. p. 2863; Gaz. vol. 155; p. 495.
Lumpkin, James J. (See Johnson, Charles J., assignor.)
Lumsden, Caroline H. (See Lumsden, John C., assignor.)
Lumsden, John C., assignor, by mesne assignments, to C. H. Lumsden, New York, N. Y. Massage device. No. 955,339; Apr. 19; Sp. p. 3553; Gaz. vol. 153; p. 628.
Luna, Joseph C., assignor of one-half to E. Jacobson, Oakland, Cal. Regulating-valve for air-brake systems. No. 959,022; May 24; Sp. p. 5657; Gaz. vol. 154; p. 950.
Lunceford, Henry W., assignor of one-half to Western Pipe and Steel Co., Los Angeles, Cal. Hydrant. No. 947,184; Jan. 18; Sp. p. 4801; Gaz. vol. 150; p. 791.
Lunceford, Henry W., assignor of one-half to Western Pipe and Steel Co., Los Angeles, Cal. Expanding mandrel. No. 963,603; July 5; Sp. p. 1290; Gaz. vol. 156; p. 198.
Lund, George A., New York, N. Y. I-beam and the like. No. 963,162; July 5; Sp. p. 341; Gaz. vol. 156; p. 49.
Lund, Johan P. H., Rockhampton, Queensland, Australia. Rudder for controlling the various movements of screw-propelled vessels and means for operating same. No. 947,833; Feb. 1; Sp. p. 92; Gaz. vol. 151; p. 19.
Lund, Johan P. H., Rockhampton, Queensland, Australia. Steering and controlling device for screw-propelled vessels. No. 969,642; Sept. 6; Sp. p. 1044; Gaz. vol. 158; p. 167.
Lund, Olaf H., San Francisco, assignor of one-half to W. Fuchs, Oakland, Cal. Level attachment for straight-edges. No. 948,232; Feb. 1; Sp. p. 924; Gaz. vol. 151; p. 151.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Compressing-machine. No. 959,869; May 31; Sp. p. 7444; Gaz. vol. 154; p. 1259.

Alphabetical list of patentees—Continued.

Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-compressing machine. No. 974,405; Nov. 1; Sp. p. 731; Gaz. vol. 160; p. 111.

Lundby, Carl, Beresford, S. D. Rein-holder. No. 945,129; Jan. 4; Sp. p. 246; Gaz. vol. 150; p. 43.

Lundeberg, Carl F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 974,503; Nov. 1; Sp. p. 983; Gaz. vol. 160; p. 146.

Lundeen, Frank G., Courtenay, N. D. Check-stamping device. No. 959,768; May 31; Sp. p. 7213; Gaz. vol. 154; p. 1224.

Lundeen, John A., Edgewood Park, Pa. Electrically-operated switch. No. 965,639; July 26; Sp. p. 5724; Gaz. vol. 156; p. 973.

Lundell, Robert, New York, N. Y. Method of and means for controlling regenerative electric motors. No. 969,894; Sept. 13; Sp. p. 1621; Gaz. vol. 158; p. 280.

Lundén, Uno M., Stockholm, assignor of one-third to J. Hamilton, Lyckås, Sweden. Milking-machine. No. 954,530; Apr. 12; Sp. p. 1781; Gaz. vol. 153; p. 320.

Lundgren, Charles A., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 961,871; June 21; Sp. p. 3401; Gaz. vol. 155; p. 601.

Lundgren, Charles A., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Coin-holder. No. 963,784; July 12; Sp. p. 1680; Gaz. vol. 156; p. 281.

Lundgren, Charles A., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 963,785; July 12; Sp. p. 1681; Gaz. vol. 156; p. 281.

Lundgren, John W., Duluth, Minn. Drilling-machine. No. 974,406; Nov. 1; Sp. p. 733; Gaz. vol. 160; p. 111.

Lundgren, Lars O., Lakeport, Cal. Suction-pump for cleaning drain-pipes. No. 948,590; Feb. 8; Sp. p. 1717; Gaz. vol. 151; p. 298.

Lundquist, Ernest F. T., Chicago, Ill. Button-assembling machine. No. 950,772; Mar. 1; Sp. p. 672; Gaz. vol. 152; p. 107.

Lundquist, Hendrick W., San Diego, Cal. Vending-machine. No. 964,988; July 19; Sp. p. 4322; Gaz. vol. 156; p. 721.

Lundquist, Richard, Laguna de Terminos, Mexico. Rotary engine. No. 965,640; July 26; Sp. p. 5726; Gaz. vol. 156; p. 974.

Lundstrom, Albert, Omaha, Nebr. Stand for motor-cycles. No. 962,369; June 21; Sp. p. 4464; Gaz. vol. 155; p. 770.

Lundstrom, Carl J., Little Falls, N. Y. Locking device for follower-blocks. No. 970,522; Sept. 20; Sp. p. 2941; Gaz. vol. 158; p. 513.

Lundy, Lundy S., Niagara Falls South, Ontario, Canada. Transplanting-pot. No. 971,909; Oct. 4; Sp. p. 859; Gaz. vol. 159; p. 147.

Luner, Joseph, Chicago, Ill. Ornamenting wearing-apparel. No. 971,388; Sept. 27; Sp. p. 4758; Gaz. vol. 158; p. 831.

Lungen, Adam, New York, N. Y., assignor to Edwards & Co., Inc. Annunciator. No. 973,676; Oct. 25; Sp. p. 4761; Gaz. vol. 159; p. 827.

Lungren, Charles M., Bayonne, N. J., assignor to The Railway Utilities Company. Vapor mantle-burner. No. 948,999; Feb. 15; Sp. p. 2565; Gaz. vol. 151; p. 462.

Lungren, Charles M., Bayonne, N. J., assignor to The Railway Utilities Company. Insulated projecting-lantern. No. 953,096; Mar. 29; Sp. p. 5412; Gaz. vol. 152; p. 991.

Lungren, Charles M., Bayonne, N. J., assignor to Safety Car Heating & Lighting Company. Mantle-making process. No. 964,036; July 12; Sp. p. 2224; Gaz. vol. 156; p. 366.

Lungren, Charles M., Bayonne, N. J., assignor to Safety Car Heating & Lighting Company. Incandescent-mantle lamp. No. 968,375; Aug. 23; Sp. p. 5405; Gaz. vol. 157; p. 933

Lunken, Edmund H., and C. M. Conklin, Cincinnati, assignors to The Lunken Steel Window Company, Hamilton, Ohio. Window construction. No. 957,693; May 10; Sp. p. 2532; Gaz. vol. 154; p. 438.

Lunken Steel Window Co., The. (See Schmidt, William, assignor.)

Lunken Steel Window Company, The. (See Lunken and Conklin, assignors.)

Lunn, Thomas, Decatur, Ill. Pottery-former. No. 975,144; Nov. 8; Sp. p. 2416; Gaz. vol. 160; p. 392.

Lunsford, Samuel H., Linton, Ind. Miner's combined fuse clipper and splitter. No. 975,968; Nov. 15; Sp. p. 4143; Gaz. vol. 160; p. 700.

Luoma, Matti, South Gardner, Mass. Pump. No. 976,479; Nov. 22; Sp. p. 5308; Gaz. vol. 160; p. 900.

Luppino, Joseph, Ridgewood, N. J., assignor, by mesne assignments, to C. J. Witzel, Brooklyn, N. Y. Side guard for spring-mattresses. No. 976,480; Nov. 22; Sp. p. 5310; Gaz. vol. 160; p. 900.

Luptan, Walter E. (See Kruse, Theodore H., assignor.)

Lupton, James M. (See Lupton, William T. and J. M.)

Lupton, William T. and J. M., Berkeley county, W. Va. Spark-arrester and smoke-consumer. No. 956,589; May 3; Sp. p. 178; Gaz. vol. 154; p. 31.

Lurie, William A., Chicago, Ill. Pneumatic tire. No. 962,230; June 21; Sp. p. 4169; Gaz. vol. 155; p. 724.

Luschka, August R., assignor to Western Electric Company, Chicago, Ill. Spark-coil. No. 968,173; Aug. 23; Sp. p. 4997; Gaz. vol. 157; p. 862.

Luscomb, Frederick W., New Bedford, assignor to Atlas Tack Company, Fairhaven, Mass. Machine for inserting eyelets. No. 956,119; Apr. 26; Sp. p. 5269; Gaz. vol. 153; p. 926.

Luscomb, Frederick W., New Bedford, assignor to Atlas Tack Company, Fairhaven, Mass. Machine for inserting eyelets. No. 978,178; Dec. 13; Sp. p. 1661; Gaz. vol. 161; p. 292.

Lussky, August, Louisville, Ky. Attachment for wheelbarrows. No. 968,248; Aug. 23; Sp. p. 5154; Gaz. vol. 157; p. 887.

Lust, Elmer, Reasnor, Iowa. Swingletree. No. 977,459; Dec. 6; Sp. p. 67; Gaz. vol. 161; p. 13.

Luten, Daniel B., Indianapolis, Ind. Reinforced structure. No. 979,776; Dec. 27; Sp. p. 5099; Gaz. vol. 161; p. 888.

Lutes, Cecil C., Noxen, Pa. Electric hammer. No. 955,522; Apr. 19; Sp. p. 3937; Gaz. vol. 153; p. 691.

Lutes, Joseph P., assignor of one-third to R. L. Cox and one-third to J. S. Wilson, Buffalo, Mo. Road-grader. No. 949,588; Feb. 15; Sp. p. 3782; Gaz. vol. 151; p. 658.

Luth, Henry. (See Porn, Stephen L., assignor.)

Luther, Andrew T. and C. H., Providence, R. I. Test-clip. No. 953,678; Mar. 29; Sp. p. 6672; Gaz. vol. 152; p. 1188.

Luther, Benjamin S., Newburyport, assignor to The Chase-Shawmut Company, Boston, Mass. Inclosed electric fuse. No. 968,174; Aug. 23; Sp. p. 4999; Gaz. vol. 157; p. 862.

Luther, Charles H. (See Luther, Andrew T. and C. H.)

Luther, Charles J., Elizabeth, assignor of one-half to J. C. Davis, Maplewood, N. J. Pipe-union. No. 974,504; Nov. 1; Sp. p. 986; Gaz. vol. 160; p. 146.

Luther, Edward S. (See Montgomery and Weithas, assignors.)

Luther, Gardner C., Providence, R. I. Cable-propelled aeroplane. No. 969,643; Sept. 6; Sp. p. 1046; Gaz. vol. 158; p. 168.

Luther, John E., Schenectady, N. Y., assignor to General Electric Company. Socket and attaching-plug. No. 955,465; Apr. 19; Sp. p. 3817; Gaz. vol. 153; p. 670.

Lüthi, Gottlieb, Signau, Switzerland. Electric time-switch. No. 952,123; Mar. 15; Sp. p. 3360; Gaz. vol. 152; p. 605.

Luttich, Bruno, New York, N. Y. Curtain-pole bracket. No. 948,787; Feb. 8; Sp. p. 2142; Gaz. vol. 151; p. 364.

Lüttmann, Ernst, Breslau, Germany. Method of and apparatus for removing coagulated lumps or the like from the dies of extrusion-presses. No. 956,386; Apr. 26; Sp. p. 5853; Gaz. vol. 153; p. 1017.

Lutton, William J., Paterson, N. J. Box-loom. No. 953,275; Mar. 29; Sp. p. 5804; Gaz. vol. 152; p. 1049.

Luttrell, Joseph B., Little Rock, Ark. Stave-sawing machine. No. 951,784; Mar. 8; Sp. p. 2685; Gaz. vol. 152; p. 463.

Luttrell, William J., Honey Grove, Tex. Cultivator attachment. No. 973,284; Oct. 18; Sp. p. 3910; Gaz. vol. 159; p. 669.

Lüttringhaus, Arthur, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Pigment. No. 968,376; Aug. 23; Sp. p. 5408; Gaz. vol. 157; p. 933.

Luttropp, Conrad. (See Bellows and Luttropp.)

Lutz, Alexander T., assignor of one-half to W. E. Koch, York, Pa. Ironing-board. No. 973,949; Oct. 25; Sp. p. 5311; Gaz. vol. 159; p. 922.

Lutz, Andrew, Pittsburg, Pa. Shoe. No. 968,964; Aug. 30; Sp. p. 6658; Gaz. vol. 157; p. 1160.

Lutz, Benjamin F., assignor of one-half to J. M. Howick, Celina, Ohio. Hay-tedder. No. 958,514; May 17; Sp. p. 4592; Gaz. vol. 154; p. 753.

Lutz, Ferdinand, New York, N. Y. Siphon-valve. No. 963,604; July 5; Sp. p. 1291; Gaz. vol. 156; p. 198.

Lutz, Fredrick, Philadelphia, Pa. Refrigerator. No. 965,473; July 26; Sp. p. 5342; Gaz. vol. 156; p. 914.

Lutz, Frederick, Philadelphia, Pa. Refrigerator-mounting. No. 971,059; Sept. 27; Sp. p. 4090; Gaz. vol. 158; p. 724.

Lutz, George A., Plainfield, N. J. Elbow for conduits. No. 962,773; June 28; Sp. p. 5354; Gaz. vol. 155; p. 936.

Lutz, George A., Plainfield, N. J. Elbow for conduits. No. 962,774; June 28; Sp. p. 5357; Gaz. vol. 155; p. 936.

Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Appliance for systems of electrical distribution. No. 948,819; Feb. 8; Sp. p. 2215; Gaz. vol. 151; p. 375.

Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Conduit for electric conductors. No. 948,865; Feb. 8; Sp. p. 2287; Gaz. vol. 151; p. 389.

Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Metal pipe. No. 952,077; Mar. 15; Sp. p. 3273; Gaz. vol. 152; p. 589.

Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Flexible conduit. No. 962,772; June 28; Sp. p. 5353; Gaz. vol. 155; p. 935.

Alphabetical list of patentees—Continued.

Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Making armored electrical conductors. No. 969,712; Sept. 6; Sp. p. 1176; Gaz. vol. 158; p. 191.
Lutz, Henry E., Helena, Mont. Check-hook. No. 957,512; May 10; Sp. p. 2171; Gaz. vol. 154; p. 375.
Lutz, Herbert, assignor of one-fourth to B. Harris and one-fourth to C. R. Ford, Hamilton, Ontario, Canada. Combination watchmaker's tool. No. 978,317; Dec. 13; Sp. p. 1953; Gaz. vol. 161; p. 341.
Lutz, John A., St. Petersburg, Fla. Calculating-machine. No. 961,977; June 21; Sp. p. 3613; Gaz. vol. 155; p. 636.
Lutz, Julius N. (See Waring, Samuel F., assignor.)
Lutz, Theodore E., Galion, Ohio. Adjustable crank attachment. No. 971,764; Oct. 4; Sp. p. 533; Gaz. vol. 159; p. 93.
Lutz, William F. J., and H. D. Bartlett, Chicago, Ill. Packing. No. 961,872; June 21; Sp. p. 3404; Gaz. vol. 155; p. 602.
Lutze, Hans. (See Singenstreu, Hermann, assignor.)
Lux, Julius K., Jersey City, N. J. Controlling means for electric circuits. No. 964,037; July 12; Sp. p. 2226; Gaz. vol. 156; p. 367.
Lux, Julius K., St. Louis, Mo. Controlling means for electric circuits. No. 966,456; Aug. 9; Sp. p. 1292; Gaz. vol. 157; p. 232.
Lux, Julius K., St. Louis, Mo. Controlling means for electric circuits. No. 977,664; Dec. 6; Sp. p. 551; Gaz. vol. 161; p. 84.
Lux, Julius K., Washington, D. C. Operating means for circuit-controlling devices. No. 966,457; Aug. 9; Sp. p. 1294; Gaz. vol. 157; p. 232.
Lux, Julius K., Washington, D. C. Circuit-controlling device. No. 970,523; Sept. 20; Sp. p. 2944; Gaz. vol. 158; p. 513.
Lux, Julius K., Washington, D. C. Operating means for rotary electric switches. No. 977,810; Dec. 6; Sp. p. 852; Gaz. vol. 161; p. 134.
Lux, Julius K., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Socket for incandescent electric lamps. No. 954,117; Apr. 5; Sp. p. 874; Gaz. vol. 153; p. 151.
Lux, William N., South Milwaukee, assignor of one-half to A. Kubert, Milwaukee, Wis. Snow-melting machine. No. 977,109; Nov. 29; Sp. p. 6702; Gaz. vol. 160; p. 1141.
Luxembourg, Edouard. (See Boeckel, Grunberg, Korwin-Krukovsky, and Luxembourg.)
Luxembourger, Nicholas, Santa Ana, assignor to Bow Shock Absorbing Spring Company, Los Angeles, Cal. Shock-absorbing vehicle-spring. No. 979,016; Dec. 20; Sp. p. 3453; Gaz. vol. 161; p. 606.
Luxenburg, Jonas, *et al.* (See Schauman, Bror M., assignor.)
Lycan, William S., Marshall, Ill. Water-tube boiler. No. 945,130; Jan. 4; Sp. p. 247; Gaz. vol. 150; p. 43.
Lyche, Halver H. (See Odquist and Lyche.)
Lyda, Arthur W., Canton, Ohio. Swing. No. 977,206; Nov. 29; Sp. p. 6922; Gaz. vol. 160; p. 1176.
Lyda, Arthur W., New Castle, Pa., and E. C. Robinson, Lowellville, Ohio. Disinfectant device for telephones. No. 950,937; Mar. 1; Sp. p. 997; Gaz. vol. 152; p. 159.
Lydin, Charles A., Denver, Colo. Angle-bisector. No. 975,969; Nov. 15; Sp. p. 4145; Gaz. vol. 160; p. 701.
Lyhne, Anker S., Bridgeport, Conn. Adjustable reflector. No. 963,912; July 12; Sp. p. 1972; Gaz. vol. 156; p. 324.
Lyhne, Anker S., Bridgeport, Conn. Adjustable lamp. No. 963,913; July 12; Sp. p. 1973; Gaz. vol. 156; p. 324.
Lyhne, Anker S., Bridgeport, Conn. Shade-holder. No. 967,401; Aug. 16; Sp. p. 3364; Gaz. vol. 157; p. 580.
Lyhne, Anker S., Bridgeport, Conn. Device for attaching shade-holders to sockets. No. 967,534; Aug. 16; Sp. p. 3631; Gaz. vol. 157; p. 624.
Lyhne, Anker S., Bridgeport, Conn. Socket-shell. No. 969,486; Sept. 6; Sp. p. 706; Gaz. vol. 158; p. 112.
Lyle, Alexander. (See Owens and Lyle.)
Lyle, John S., McCloud, Okla. Machine for cleaning and separating cotton. No. 969,762; Sept. 6; Sp. p. 1322; Gaz. vol. 158; p. 210.
Lyman, Frank J., New York, N. Y. Detonating toy. No. 964,529; July 19; Sp. p. 3259; Gaz. vol. 156; p. 562.
Lyman, Henry M., Philadelphia, Pa. Motor-vehicle brake. No. 946,145; Jan. 11; Sp. p. 2492; Gaz. vol. 150; p. 416.
Lyman, Stanley W., Roberts, Mont. Road-bed. No. 969,966; Sept. 13; Sp. p. 1785; Gaz. vol. 158; p. 303.
Lyman, William H., Springfield, Mo. Muzzle and calf-weaner. No. 949,730; Feb. 15; Sp. p. 4056; Gaz. vol. 151; p. 704.
Lynch, Adolphus R., Danville, Ill. Automobile cultivator. No. 973,677; Oct. 25; Sp. p. 4762; Gaz. vol. 159; p. 828.
Lynch, Adolphus R., Danville, Ill. Automobile plow. No. 973,678; Oct. 25; Sp. p. 4763; Gaz. vol. 159; p. 828.
Lynch, George C., New York, N. Y. Match-box holder. No. 947,666; Jan. 25; Sp. p. 5926; Gaz. vol. 150; p. 985.
Lynch, George E., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Cable-reel. No. 951,955; Mar. 15; Sp. p. 3041; Gaz. vol. 152; p. 550.
Lynch, George E., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Rack-rail. No. 959,565; May 31; Sp. p. 6805; Gaz. vol. 154; p. 1158.
Lynch, George E., Lynn, Mass., assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Trolley. No. 953,915; Apr. 5; Sp. p. 458; Gaz. vol. 153; p. 84.
Lynch, Gertrude F., New York, N. Y. Collapsible receptacle. No. 960,360; June 7; Sp. p. 254; Gaz. vol. 155; p. 43.
Lynch, James F., Swampscott, assignor of one-half to T. F. Hurley, Lynn, Mass. Comb. No. 973,361; Oct. 18; Sp. p. 4066; Gaz. vol. 159; p. 696.
Lynch, James S., Citronelle, Ala. Cutting mechanism for mowers. No. 957,468; May 10; Sp. p. 2080; Gaz. vol. 154; p. 360.
Lynch, John. (See Cummings and Lynch.)
Lynch, John F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Grinding-machine. No. 947,249; Jan. 25; Sp. p. 4945; Gaz. vol. 150; p. 842.
Lynch, John J., assignor to Loose-Wiles Biscuit Company, St. Louis, Mo. Shipping and display box for products. No. 971,060; Sept. 27; Sp. p. 4092; Gaz. vol. 158; p. 724.
Lynch, John M. (See Smith, John R., assignor.)
Lynch, Joseph H., Red Bank, N. J. Window-shutter regulator and fastener. No. 964,441; July 12; Sp. p. 3030; Gaz. vol. 156; p. 500.
Lynch, M. F., *et al.* (See Hollis, Elbert H., assignor.)
Lynch, Michael A. (See Wilson and Lynch.)
Lynch, Robert L. (See Jeffries and Lynch.)
Lynch, Thomas A., New York, N. Y. Adjustable bottom for burial-caskets. No. 965,641; July 26; Sp. p. 5728; Gaz. vol. 156; p. 974.
Lynch, Thomas M., Washington, D. C. Fishing-rod support. No. 965,826; July 26; Sp. p. 6118; Gaz. vol. 156; p. 1037.
Lynch, Thomas R. (See Devan, Andrew, assignor.)
Lynch, William A., Los Angeles, Cal. Gas-furnace. No. 971,859; Oct. 4; Sp. p. 739; Gaz. vol. 159; p. 129.
Lyndon, Lamar, East Orange, N. J. System of electric generation, distribution, and control. No. 948,736; Feb. 8; Sp. p. 2024; Gaz. vol. 151; p. 347.
Lyness, Robert C., Sunderland, England. Contact-finger for electrical controllers and switches. No. 977,460; Dec. 6; Sp. p. 68; Gaz. vol. 161; p. 13.
Lyng, Hilmen C., Fort Benton, Mont. Lamp-burner attachment. No. 961,245; June 14; Sp. p. 2037; Gaz. vol. 155; p. 367.
Lyng, John J., East Orange, N. J., assignor to Western Electric Company, Chicago, Ill. Substation-circuit. No. 976,196; Nov. 22; Sp. p. 4649; Gaz. vol. 160; p. 800.
Lynn-Superior Company. (See Ward, Paul S., assignor.)
Lyon, David W., Alameda, Cal. Gas-engine. No. 960,978; June 7; Sp. p. 1479; Gaz. vol. 155; p. 248.
Lyon, De Witt T., New York, N. Y., assignor to American Radiator Company. Radiator. No. 965,827; July 26; Sp. p. 6120; Gaz. vol. 156; p. 1038.
Lyon, Elias A., Yonkers, N. Y. Advertising device. No. 948,285; Feb. 1; Sp. p. 1035; Gaz. vol. 151; p. 170.
Lyon, Elias A., Yonkers, N. Y. Advertising device. No. 979,399; Dec. 20; Sp. p. 4271; Gaz. vol. 161; p. 734.
Lyon, Fred W., Newark, N. J. Necktie. No. 979,521; Dec. 27; Sp. p. 4536; Gaz. vol. 161; p. 800.
Lyon, Harry H., New Albany, and W. W. Lyon, Towanda, Pa. Lock. No. 964,990; July 19; Sp. p. 4328; Gaz. vol. 156; p. 722.
Lyon & Healy. (See Neumann, Julius J., assignor.)
Lyon, John H., Baldwin, Kans. Manure-loader. No. 966,030; Aug. 2; Sp. p. 407; Gaz. vol. 157; p. 65.
Lyon, Newton W., Brighton, Iowa. Corn-shock carrier. No. 976,481; Nov. 22; Sp. p. 5312; Gaz. vol. 160; p. 901.
Lyon, Oscar B., Maricopa, and W. H. Young, Modesto, Cal. Life-preserver and swimming-machine. No. 957,513; May 10; Sp. p. 2172; Gaz. vol. 154; p. 375.
Lyon, Thomas E., Bucklin, Kans. Road-grader. No. 957,357; May 10; Sp. p. 1860; Gaz. vol. 154; p. 324.
Lyon, Walter W. (See Lyon, Harry H. and W. W.)
Lyon, William D., *et al.* (See Watterson, John S., assignor.)
Lyons, Alpheus F. S., Neenah, Wis. Shoe. No. 977,890; Dec. 6; Sp. p. 1023; Gaz. vol. 161; p. 162.
Lyons, Emma R. (See Hankins, Robert A., assignor.)
Lyons, John, assignor of one-half to J. E. Whitney, Indianapolis, Ind. Saddle for trucks. No. 953,043; Mar. 29; Sp. p. 5283; Gaz. vol. 152; p. 973.
Lyons, Levi, Hamilton, Ontario, Canada. Overcoat-collar. No. 949,773; Feb. 22; Sp. p. 4167; Gaz. vol. 151; p. 753.
Lyons, Maurice E., *et al.*, executors. (See Day and Ward.)
Lyons, Michael H., Brockton, Mass. Cutter-head. No. 949,126; Feb. 15; Sp. p. 2841; Gaz. vol. 151; p. 502.
Lyons, Michael H., Brockton, Mass. Last-lathe. No. 954,447; Apr. 12; Sp. p. 1584; Gaz. vol. 153; p. 290.
Lyons, Robert L., Waltham, Mass. Button-sewing machine. No. 961,507; June 14; Sp. p. 2613; Gaz. vol. 155; p. 456.
Lyons, Robert L., Waltham, Mass. Button-sewing machine. No. 961,508; June 14; Sp. p. 2617; Gaz. vol. 155; p. 456.

Lyons, Robert L., Boston, Mass. Thread-cutting device for sewing-machines. No. 961,509; June 14; Sp. p. 2619; Gaz. vol. 155; p. 457.
Lysaght, Cornelius J., Newark, N. J., assignor to R. Neumann Hardware Co. Trunk-hasp. No. 979,777; Dec. 27; Sp. p. 5100; Gaz. vol. 161; p. 888.
Lyster, Benton R. (See Lyster, Morton J. and B. R.)
Lyster, Benton R. and M. J., Whitefield, N. H. Seed-potato-cutting machine. No. 961,363; June 14; Sp. p. 2312; Gaz. vol. 155; p. 408.
Lyster, Morton J. (See Lyster, Benton R. and M. J.)
Lyster, Morton J. and B. R., Whitefield, N. H. Apparatus for the production of acetic acid. No. 952,540; Mar. 22; Sp. p. 4220; Gaz. vol. 152; p. 774.
Lytle, Alton A., Grand Rapids, Mich., assignor to American Seating Company. Tablet-arm chair. No. 955,523; Apr. 19; Sp. p. 3939; Gaz. vol. 153; p. 691.
Lytle, D. G., *et al.* (See Gardner, William R., assignor.)
Lytle, Orman J. (See Leppzer and Lytle.)
Lytle, William J. (See Baguley, George T., assignor.)
Lyttleton, Westcote R., Rakaia, New Zealand. Apparatus for turning the leaves of music and the like. No. 971,204; Sept. 27; Sp. p. 4401; Gaz. vol. 158; p. 772.
M. Garland Company, The. (See Garland, Michael and H. W., assignors.)
M. B. Schenck Company, The. (See Schenck and Johnson, assignors.)
M. D. Knowlton Company. (See Jones, John G., assignor.)
M. H. Foundry and Manufacturing Company. (See Heeney, Joseph P., assignor.)
M. H. Treadwell Company. (See Astrom, Carl P., assignor.)
MaGee, Arline E. (See MaGee, Percy F. and A. E.)
MaGee, Percy F. and A. E., Janesville, Wis. Tobacco-box fastening. No. 969,550; Sept. 6; Sp. p. 861; Gaz. vol. 158; p. 136.
Maanum, Dedrick A., Clontarf, Minn. Smut-cleaner. No. 964,290; July 12; Sp. p. 2745; Gaz. vol. 156; p. 453.
Maas, Joseph, assignor to American Gas Light Company, Kalamazoo, Mich. Incandescent gas-lamp. No. 973,950; Oct. 25; Sp. p. 5313; Gaz. vol. 159; p. 923.
Maas & Waldstein Company, The. (See Walker, Henry V., assignor.)
Maasberg, Hermann, Oakland, Cal. Spraying-nozzle. No. 964,991; July 19; Sp. p. 4330; Gaz. vol. 156; p. 722.
Maatschappij tot Exploitatie Van Verstelbarelederen Hakken. (See Keijser, Lodewijk F., assignor.)
Mabey, Charles W., Indianapolis, Ind. Adjustable brush-handle. No. 960,655; June 7; Sp. p. 849; Gaz. vol. 155; p. 140.
MacBeth, Alexander, assignor to Gorham Manufacturing Company, Providence, R. I. Insulated handle for hot-water vessels. No. 967,799; Aug. 16; Sp. p. 4156; Gaz. vol. 157; p. 712.
MacClemmy, Robert F., New York, N. Y. Body-brace. No. 948,233; Feb. 1; Sp. p. 925; Gaz. vol. 151; p. 152.
MacClemmy, Robert F., New York, N. Y. Body-brace. No. 948,234; Feb. 1; Sp. p. 928; Gaz. vol. 151; p. 152.
MacClyment, Harry A., Burlington, Iowa. Furnace. No. 955,340; Apr. 19; Sp. p. 3554; Gaz. vol. 153; p. 628.
MacConnell, Phineas J., assignor of one-half to J. T. Creahan, Cincinnati, Ohio. Vehicle-wheel support. No. 970,841; Sept. 20; Sp. p. 3658; Gaz. vol. 158; p. 625.
MacCordy, Samuel P., Amsterdam, N. Y. Button turning and finishing machine. No. 968,673; Aug. 30; Sp. p. 6052; Gaz. vol. 157; p. 1062.
MacCormick Drill and Manufacturing Company, The. (See Hibschle, Herman J., assignor.)
MacDermott, Charles A., Columbus, Ohio, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 974,505; Nov. 1; Sp. p. 987; Gaz. vol. 160; p. 147.
MacDiarmid, Wesley D. R., assignor of one-third to H. C. Dier and one-third to C. E. Wiltsie, Ottawa, Ontario, Canada. Electric switch. No. 959,769; May 31; Sp. p. 7214; Gaz. vol. 154; p. 1224.
MacDonald, Angus, Melrose, Mass. Invalid-bedstead. No. 969,174; Sept. 6; Sp. p. 64; Gaz. vol. 158; p. 11.
MacDonald, Bernard, Guanajuato, Mexico. Apparatus for treating ore-pulp. No. 948,766; Feb. 8; Sp. p. 2104; Gaz. vol. 151; p. 357.
MacDonald, Frederick L., assignor to D. Conte, Waltham, Mass. Fountain tooth-brush. No. 965,309; July 26; Sp. p. 4985; Gaz. vol. 156; p. 858.
MacDonald, James H., New Haven, Conn. Skeleton interlocking reinforce-band for ferroconcrete construction. No. 964,992; July 19; Sp. p. 4331; Gaz. vol. 156; p. 722.
MacDonald, James H., New Haven, Conn. Catch-basin cover. No. 979,182; Dec. 20; Sp. p. 3845; Gaz. vol. 161; p. 665.
MacDonald, Jeremiah E., Dalton, Mass. Overshoe for horses. No. 947,343; Jan. 25; Sp. p. 5209; Gaz. vol. 150; p. 877.
MacDonald, John W., Pittsburg, Pa. Measuring device for skirts of dresses. No. 967,800; Aug. 16; Sp. p. 4158; Gaz. vol. 157; p. 713.
MacDonald, William B., Charlotte, Mich. Scale. No. 949,435; Feb. 15; Sp. p. 3486; Gaz. vol. 151; p. 609.
MacDonald, William B., Charlotte, Mich. Baggage-scale. No. 953,150; Mar. 29; Sp. p. 5536; Gaz. vol. 152; p. 1009.
MacDougal, Thomas, and J. M. Chambers, assignors of three-fourths to G. W. Teal, Boulder, Colo. Mold. No. 950,724; Mar. 1; Sp. p. 573; Gaz. vol. 152; p. 90.
MacDougal, Thomas, and J. M. Chambers, Boulder, Colo. Track instrument for signaling systems. No. 964,530; July 19; Sp. p. 3261; Gaz. vol. 156; p. 562.
MacEwan, Norman E. (See Natt, Charles A., assignor.)
MacEwan, Robert S., Troy, N. Y. Gasket for hose-couplings. No. 947,645; Jan. 25; Sp. p. 5890; Gaz. vol. 150; p. 977.
MacFarland, Grace, Rockford, Ill. Window-lock. No. 946,611; Jan. 18; Sp. p. 3578; Gaz. vol. 150; p. 602.
MacFarland, William J., Dorchester, and W. G. Eaton, Roxbury, Mass. Cutting-table. No. 950,002; Feb. 22; Sp. p. 4732; Gaz. vol. 151; p. 835.
MacFarland, William J., Dorchester, and W. G. Eaton, Roxbury, Mass. Die. No. 950,003; Feb. 22; Sp. p. 4734; Gaz. vol. 151; p. 835.
MacFarland, William J., Dorchester, and W. G. Eaton, Roxbury, Mass. Sectional die. No. 955,277; Apr. 19; Sp. p. 3412; Gaz. vol. 153; p. 606.
MacFarland, William J., and C. H. Baker, Dorchester, Mass. Boot and shoe. No. 954,749; Apr. 12; Sp. p. 2286; Gaz. vol. 153; p. 396.
MacGahan, Paul, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 956,714; May 3; Sp. p. 463; Gaz. vol. 154; p. 74.
MacGahan, Paul, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic synchronizer. No. 968,579; Aug. 30; Sp. p. 5841; Gaz. vol. 157; p. 1030.
MacGahan, Paul, Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Means for protecting electrical circuits. No. 977,648; Dec. 6; Sp. p. 518; Gaz. vol. 161; p. 78.
MacGahan, Paul, Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Protective device for electrical circuits. No. 977,649; Dec. 6; Sp. p. 521; Gaz. vol. 161; p. 79.
MacGregor, Frank S., Hyde Park, assignor to Huff Electrostatic Separator Company, Boston, Mass. Separation of ingredients of mixed solid materials. No. 972,459; Oct. 11; Sp. p. 2035; Gaz. vol. 159; p. 357.
MacGregor, Peter, Ottawa, Ontario, Canada. Vertical file. No. 947,218; Jan. 18; Sp. p. 4871; Gaz. vol. 150; p. 803.
MacGregor, Peter G., New York, N. Y. Double-acting syringe. No. 954,398; Apr. 5; Sp. p. 1482; Gaz. vol. 153; p. 246.
MacGregor, Thomas F. (See Lindley, Arthur G., assignor.)
MacGregor, Wallace F., Racine, Wis., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 965,310; July 26; Sp. p. 4987; Gaz. vol. 156; p. 858.
MacGregor, Walter, Indiana Harbor, Ind., assignor to American Steel Foundries, New York, N. Y. Multiple tapping-spout. No. 972,885; Oct. 18; Sp. p. 3016; Gaz. vol. 159; p. 531.
MacGuyer, Woodford R., Waterbury, assignor to The New Departure Manufacturing Company, Bristol, Conn. Coaster-brake. No. 952,622; Mar. 22; Sp. p. 4407; Gaz. vol. 152; p. 803.
MacGuyer, Woodford R., Waterbury, assignor to The New Departure Manufacturing Company, Bristol, Conn. Feeding means for explosion-motors. No. 962,371; June 21; Sp. p. 4468; Gaz. vol. 155; p. 771.
MacIntosh, William, Hahns Peak, Colo. Visible warning attachment for barbed-wire fences. No. 970,524; Sept. 20; Sp. p. 2950; Gaz. vol. 158; p. 514.
MacLachlan, John C., assignor of one-fourth to A. P. Hunt, one-fourth to G. H. Grounds, and one-fourth to D. F. Orange, Chicago, Ill. Elastic wheel. No. 955,417; Apr. 19; Sp. p. 3723; Gaz. vol. 153; p. 654.
MacLaughlin, John B., Ottawa, Ontario, Canada. Tobacco-pipe. No. 976,892; Nov. 29; Sp. p. 6190; Gaz. vol. 160; p. 1065.
MacLean, William B., Brockville, Ontario, Canada. Clothes-washer. No. 963,786; July 12; Sp. p. 1685; Gaz. vol. 156; p. 282.
MacLennan, John H. (See Toole and MacLennan.)
MacMillan, John A., Dayton, Ohio. Making cushion vehicle-tires. No. 966,031; Aug. 2; Sp. p. 409; Gaz. vol. 157; p. 65.
MacMinn, Benjamin F., Philadelphia, Pa. Waiting-stand for dining-tables. No. 945,848; Jan. 11; Sp. p. 1884; Gaz. vol. 150; p. 313.
MacMurray, James E., assignor to Acme Flexible Clasp Company, Chicago, Ill. Machine for making shingle-bands. No. 965,311; July 26; Sp. p. 4989; Gaz. vol. 156; p. 859.
MacNaughton, Eliza E. A., Yonkers, N. Y. Egg-cup. No. 971,910; Oct. 4; Sp. p. 860; Gaz. vol. 159; p. 147.
MacPherson Company, The. (See MacPherson, John G., assignor.)
MacPherson, John G., Philadelphia, Pa., assignor to The MacPherson Company. Taximeter. No. 957,073; May 3; Sp. p. 1232; Gaz. vol. 154; p. 196.

Alphabetical list of patentees—Continued.

MacQuesten, Frederic W., East Orange, N. J. Building-block. No. 966,226; Aug. 2; Sp. p. 821; Gaz. vol. 157; p. 131.
MacRae, Norman A. (See Nicholas, Kane, MacRae, and Gano.)
MacVicar, Dane. (See Magaw and MacVicar.)
Macalpine, John H. (See Melville and Macalpine.)
Macartney, George, St. Paul, Minn. Merchandise-transfer system. No. 945,562; Jan. 4; Sp. p. 1200; Gaz. vol. 150; p. 185.
Macbeth, Albert H., Fort Wayne, Ind. Armor for pneumatic tires. No. 965,642; July 26; Sp. p. 5730; Gaz. vol. 156; p. 974.
Macbeth, George A., Pittsburg, Pa. Lighting device. No. 979,181; Dec. 20; Sp. p. 3844; Gaz. vol. 161; p. 665.
Macbeth-Evans Glass Company. (See Evans and Young, assignors.)
Maccallum, Norman E., assignor of one-fourth to F. P. Norris, Phoenixville, and one-half to The Phoenix Iron Company, Philadelphia, Pa. Apparatus for manufacturing steel. No. 959,146; May 24; Sp. p. 5923; Gaz. vol. 154; p. 992.
Macdonald, Alfred, Whiteinch, Scotland. Machine for grinding, turning, and finishing shafts, piston-rods, pins, tools, and other machined work. No. 979,975; Dec. 27; Sp. p. 5523; Gaz. vol. 161; p. 954.
Macdonald, Alfred, Whiteinch, Scotland. Machine for grinding, turning, and finishing shafting, &c. No. 979,976; Dec. 27; Sp. p. 5527; Gaz. vol. 161; p. 954.
Macdonald, Daniel J. (See Gohl, John J., assignor.)
Macdonald, Hugh, Kingston, Mich. Signaling device. No. 951,537; Mar. 8; Sp. p. 2187; Gaz. vol. 152; p. 380.
Macdonald, James, New York, N. Y. Finger-support for manicurists. No. 968,965; Aug. 30; Sp. p. 6659; Gaz. vol. 157; p. 1160.
Macdonald, John N., Hartford, Conn. Chain-repairing implement. No. 965,722; July 26; Sp. p. 5895; Gaz. vol. 156; p. 1001.
Macdonald, Rob R., Woodbury, N. J. Headlight. No. 959,770; May 31; Sp. p. 7217; Gaz. vol. 154; p. 1225.
Macdonald, Thomas A., Clifton, assignor of sixteen and one-third one-hundredths to I. E. Zimmerman, Paterson, sixteen and one-third one-hundredths to W. H. Castles, Kingsland, and sixteen and one-third one-hundredths to G. Lentz, North Arlington, N. J. Water-wheel. No. 967,402; Aug. 16; Sp. p. 3366; Gaz. vol. 157; p. 580.
McDonald, Thomas A., Clifton, assignor of sixteen and one-third one-hundredths to I. E. Zimmerman, Paterson, sixteen and one-third one-hundredths to W. H. Castles, Kingsland, and sixteen and one-third one-hundredths to G. Lentz, North Arlington, N. J. Hydraulic-power system. No. 969,967; Sept. 13; Sp. p. 1787; Gaz. vol. 158; p. 303.
Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Disk sound-reproducing machine. No. 957,694; May 10; Sp. p. 2534; Gaz. vol. 154; p. 438.
Macdonald, William R., London, England. Cleaner for ships' hulls and the like. No. 952,455; Mar. 22; Sp. p. 4023; Gaz. vol. 152; p. 744.
Macdonald, William R., Eel Pie Island, Twickenham, England. Cleaner for ships' hulls and the like. No. 959,566; May 31; Sp. p. 6806; Gaz. vol. 154; p. 1158.
Macduffee, Chester E., assignor to himself and W. H. Cooper, New York, N. Y., J. L. Gordon, West Hoboken, N. J., and J. P. Read, New York, N. Y. Boot or shoe heel. No. 961,625; June 14; Sp. p. 2865; Gaz. vol. 155; p. 495.
Mace, Alfred H., assignor of five-eighths to W. and T. J. Rutherford, Montreal, Quebec, Canada. Ice-cream freezer. No. 952,339; Mar. 15; Sp. p. 3789; Gaz. vol. 152; p. 678.
Macfarlane, James W. and W. A., Cathcart, Scotland. Motor for centrifugal drying-machines. No. 959,567; May 31; Sp. p. 6808; Gaz. vol. 154; p. 1158.
Macfarlane, Oliver P., *et al.* (See Ross and Schofield, assignors.)
Macfarlane, William A. (See Macfarlane, James W. and W. A.)
Macfarren, Walter W., assignor to W. H. Donner, Pittsburg, Pa. Vehicle-wheel. No. 963,304; July 5; Sp. p. 687; Gaz. vol. 156; p. 98.
Machalske, Florentine J., assignor of one-half to R. F. Pierce, Chicago, Ill. Producing manganates, permanganates, halogens, and hydroxids. No. 956,120; Apr. 26; Sp. p. 5273; Gaz. vol. 153; p. 926.
Machen, Albert S., Norfolk, Va. Account-cabinet. No. 951,017; Mar. 1; Sp. p. 1137; Gaz. vol. 152; p. 185.
Machen & Mayer Electrical Manufacturing Company. (See Mayer, Walter S., assignor.)
Machine Mantle Sewing Company, The. (See Cohn, Samuel, assignor.)
Machlet, Adolph W., Elizabeth, N. J. Annealing apparatus. No. 961,305; June 14; Sp. p. 2173; Gaz. vol. 155; p. 389.
Machlet, Adolph W., Elizabeth, N. J. Straightening and hardening apparatus. No. 976,891; Nov. 29; Sp. p. 6187; Gaz. vol. 160; p. 1065.
Machlet, Fritz W., Elizabeth, N. J. Pump, &c. No. 973,679; Oct. 25; Sp. p. 4764; Gaz. vol. 159; p. 828.
Macintosh, Richard E., assignor of one-half to F. G. Kahn, Los Angeles, Cal. Coat-hanger. No. 962,513; June 28; Sp. p. 4798; Gaz. vol. 155; p. 845.
Mack, Charles E. (See Plopper, James A., assignor.)
Mack, Charles T. (See Freeman and Mack.)
Mack, Clarence G., Durbin, W. Va. Rail-joint. No. 976,272; Nov. 22; Sp. p. 4857; Gaz. vol. 160; p. 828.
Mack, Fred J. (See Packard, Albert, assignor.)
Mack, George E., Detroit, Mich. Pump-valve. No. 970,249; Sept. 13; Sp. p. 2381; Gaz. vol. 158; p. 401.
Mack, Gorden W., Peeds, Va. Pulley-rope gage. No. 961,510; June 14; Sp. p. 2620; Gaz. vol. 155; p. 457
Mack, John G. D., Madison, Wis., assignor to J. M. Davis, Cincinnati, Ohio. Method and means for attaching wires to one another. No. 945,401; Jan. 4; Sp. p. 857; Gaz. vol. 150; p. 133.
Mack, John M., Allentown, Pa. Transmission mechanism. No. 954,531; Apr. 12; Sp. p. 1784; Gaz. vol. 153; p. 320.
Mack, John R., New York, assignor to J. R. Locke, Brooklyn, N. Y. Carbureter. No. 963,914; July 12; Sp. p. 1975; Gaz. vol. 156; p. 324.
Mack, Mathias, assignor of one-half to H. Savage, Philadelphia, Pa Spike. No. 969,382; Sept. 6; Sp. p. 499; Gaz. vol. 158; p. 79.
Mack, William E., Fort Plain, N. Y. Thermo-electric regulator. No. 961,145; June 14; Sp. p. 1821; Gaz. vol. 155; p. 330.
Mack, William H., New York, N. Y. Pipe-hanger. No. 978,912; Dec. 20; Sp. p. 3197; Gaz. vol. 161; p. 568.
Mack, William J., assignor of one-half to C. D. Dillemuth, Buffalo, N. Y. Furnace for heating metal bars. No. 954,315; Apr. 5; Sp. p. 1317; Gaz. vol. 153; p. 218.
Mackay, Charles D., London, England. Wire-stapling machine. No. 968,863; Aug. 30; Sp. p. 6455; Gaz. vol. 157; p. 1124.
Mackensen, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Telescopic tube. No. 958,752; May 24; Sp. p. 5069; Gaz. vol. 154; p. 857.
Mackenzie, Archibald, and T. M. Norton, Denver, Colo. Illuminated sign. No. 977,665; Dec. 6; Sp. p. 556; Gaz. vol. 161; p. 84.
Mackerey, Charles J., Newport News, Va. Valve for steam-traps and the like. No. 957,469; May 10; Sp. p. 2081; Gaz. vol. 154; p. 361.
Mackerey, Charles J., U. S. Navy. Valve for steam-traps. No. 957,470; May 10; Sp. p. 2082; Gaz. vol. 154; p. 361.
Mackey, Malcolm S., *et al.* (See Poillon, George W., assignor.)
Mackie, Edwin M., and P. F. Doyle, Franklin, Pa., assignors to Chicago Pneumatic Tool Company, Chicago, Ill. Rock-drill. No. 965,474; July 26; Sp. p. 5343; Gaz. vol. 156; p. 914.
Mackin, Francis J., assignor to B. Schloss, San Francisco, Cal. Jar-closure. No. 979,183; Dec. 20; Sp. p. 3846; Gaz. vol. 161; p. 665.
Macking, Nicholas, assignor of one-half to E. S. Wilcox, Wilkes-Barre, Pa. Portable telephone and testing instrument. No. 961,146; June 14; Sp. p. 1825; Gaz. vol. 155; p. 331.
Mackintosh, Ernest K., and E. A. Smith, Washington, D. C. Electric switch. No. 973,362; Oct. 18; Sp. p. 4067; Gaz. vol. 159; p. 696.
Mackintosh, Frederick, Schenectady, N. Y., assignor to General Electric Company. Liquid rheostat. No. 963,163; July 5; Sp. p. 343; Gaz. vol. 156; p. 49.
Macklin, Athol B., Ottawa, and H. J. Waddie, Hamilton, Ontario, Canada. Nut-lock. No. 972,460; Oct. 11; Sp. p. 2038; Gaz. vol. 159; p. 357.
Macklind, William R., Mineral Point, Mo. Drier. No. 949,487; Feb. 15; Sp. p. 3579; Gaz. vol. 151; p. 624.
Macklind, William R., Mineral Point, Mo. Centrifugal separator. No. 949,488; Feb. 15; Sp. p. 3583; Gaz. vol. 151; p. 624.
Macklind, William R., Mineral Point, Mo. Slip-mill. No. 967,801; Aug. 16; Sp. p. 4159; Gaz. vol. 157; p. 713.
Mackoy, Edgar S., Milford, Tex. Ullage-rod. No. 962,035; June 21; Sp. p. 3736; Gaz. vol. 155; p. 656.
Maclaren, James G., Weehawken, assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 960,656; June 7; Sp. p. 850; Gaz. vol. 155; p. 140.
Maclaren, James G., Weehawken, assignor to Lamson Consolidated Store Service Company, Newark, N. J. Blower-unloading device. No. 961,364; June 14; Sp. p. 2313; Gaz. vol. 155; p. 409.
Maclaren, James G., Weehawken, assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 968,580; Aug. 30; Sp. p. 5844; Gaz. vol. 157; p. 1030.
Maclaren, James G., Weehawken, N. J., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 977,110; Nov. 29; Sp. p. 6705; Gaz. vol. 160; p. 1141.
Maclaren, James G., Harrison, N. Y., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 968,581; Aug. 30; Sp. p. 5846; Gaz. vol. 157; p. 1031.
Macleod, William A., *et al.*, trustees. (See Schwartz, Herman M., assignor.)

Macloskie, George, Schenectady, N. Y., assignor to General Electric Company. Sound-producing device. No. 953,044; Mar. 29; Sp. p. 5285; Gaz. vol. 152; p. 973.
Macloskie, George, Schenectady, N. Y., assignor to General Electric Company. Fluid-pressure governor. No. 953,213; Mar. 29; Sp. p. 5666; Gaz. vol. 152; p. 1029.
Macloskie, George, Schenectady, N. Y., assignor to General Electric Company. Electropneumatic air-brake system. No. 957,227; May 10; Sp. p. 1581; Gaz. vol. 154; p. 279.
Macloskie, George, Schenectady, N. Y., assignor to General Electric Company, New York, N. Y. Electropneumatic air-brake system. No. 960,361; June 7; Sp. p. 257; Gaz. vol. 155; p. 43.
Macmanus, Augustus F. W., San Antonio, Tex. Aeroplane. No. 977,528; Dec. 6; Sp. p. 258; Gaz. vol. 161; p. 37.
Macomber, Isaac B., Portsmouth, R. I. Trousers-stretcher. No. 973,443; Oct. 18; Sp. p. 4247; Gaz. vol. 159; p. 724.
Macomber, Isaac B., Portsmouth, R. I. Trousers-stretcher. No. 973,444; Oct. 18; Sp. p. 4249; Gaz. vol. 159; p. 724.
Macomber, John E. (See McElroy and Macomber.)
Macphail, James, Davenport, Iowa, assignor to Peirce, Fisher & Clapp, Chicago, Ill. Flask for sand molds. No. 952,678; Mar. 22; Sp. p. 4524; Gaz. vol. 152; p. 822.
Macphail, James, Davenport, Iowa, assignor to Peirce, Fisher & Clapp, Chicago, Ill. Jacket for sand molds. No. 952,679; Mar. 22; Sp. p. 4526; Gaz. vol. 152; p. 823.
Macrae, Alexander, Providence, R. I. Mixer for mixing spraying solutions. No. 968,582; Aug. 30; Sp. p. 5848; Gaz. vol. 157; p. 1031.
Macy, Bernard F. (See Bond, Nathan O., assignor.)
Macy, Henry E., Chapman township, Clay county, Kans. Wagon-box fastener. No. 962,231; June 21; Sp. p. 4171; Gaz. vol. 155; p. 724.
Madaler, Ferdinand von, assignor to The Rotary Photographic Company, Limited, London, England. Moving-picture taking, viewing, or projecting apparatus. No. 966,342; Aug. 2; Sp. p. 1027; Gaz. vol. 157; p. 166.
Madary, Edward C., Traverse City, Mich. Tobacco-moistener. No. 964,442; July 12; Sp. p. 3031; Gaz. vol. 156; p. 500.
Madden, Charles F., Green Bay, Wis. Clean-out plug. No. 952,078; Mar. 15; Sp. p. 3274; Gaz. vol. 152; p. 589.
Madden, Joel D. (See Philbrick, Richard A., assignor.)
Madden, Patrick J., Chicago, Ill. Wringer-base for laundry-tubs. No. 955,341; Apr. 19; Sp. p. 3557; Gaz. vol. 153; p. 629.
Madden, Patrick J., Chicago, Ill. Drinking-fountain and other plumbing-fixture. No. 978,913; Dec. 20; Sp. p. 3198; Gaz. vol. 161; p. 568.
Madden, Patrick J., Chicago, Ill. Flushing attachment for water-closets. No. 978,914; Dec. 20; Sp. p. 3201; Gaz. vol. 161; p. 569.
Maddock, Frederick R., Newark, N. J. Enameled rubber cloth and making the same. No. 972,553; Oct. 11; Sp. p. 2260; Gaz. vol. 159; p. 390.
Maddox, Charlie H., Canton, Mo. Tire-armor. No. 947,834; Feb. 1; Sp. p. 95; Gaz. vol. 151; p. 20.
Maddox, John D., Culverton, Ga. Brace-clamp. No. 959,147; May 24; Sp. p. 5927; Gaz. vol. 154; p. 992.
Maddox, Thomas P., Aztec, N. Mex. Press for fruit. No. 960,102; May 31; Sp. p. 7974; Gaz. vol. 154; p. 1340.
Mader, Alois, Pittsburg, Pa. Clothes-line reel. No. 964,993; July 19; Sp. p. 4333; Gaz. vol. 156; p. 723.
Mader, Nicholas P., Sun Prairie, Wis. Carbureter-valve. No. 973,056; Oct. 18; Sp. p. 3410; Gaz. vol. 159; p. 591.
Mader, Nicholas P., Sun Prairie, Wis. Mixer. No. 973,057; Oct. 18; Sp. p. 3413; Gaz. vol. 159; p. 591.
Madison, Arthur E., Santa Barbara, Cal. Cabinet for sound-reproducing machines. No. 946,243; Jan. 11; Sp. p. 2714; Gaz. vol. 150; p. 451.
Madrow, John, Chicago, Ill. Tobacco-pipe. No. 951,569; Mar. 8; Sp. p. 2246; Gaz. vol. 152; p. 390.
Madsen, Frederick O., Newark, N. J. Machine for sealing and stamping envelops. No. 948,179; Feb. 1; Sp. p. 807; Gaz. vol. 151; p. 134.
Madsen, Mads H., Kimballton, Iowa. Hay-handling mechanism. No. 954,868; Apr. 12; Sp. p. 2575; Gaz. vol. 153; p. 438.
Madsen, Mads H., Kimballton, Iowa. Side-delivery hay rake and loader. No. 955,176; Apr. 19; Sp. p. 3187; Gaz. vol. 153; p. 572.
Maeder, William R., Chicago, Ill. Knockdown bin. No. 973,796; Oct. 25; Sp. p. 4998; Gaz. vol. 159; p. 869.
Maendlen, Eugene, *et al.* (See Kolf, Max, assignor.)
Maendler, Peter, St. Paul, Minn. Brush. No. 960,362; June 7; Sp. p. 259; Gaz. vol. 155; p. 43.
Mafera, Guy, Boston, Mass. Spring bed-bottom. No. 961,147; June 14; Sp. p. 1828; Gaz. vol. 155; p. 331.
Maffitt, M'Kean, and P. H. Williams, Charlotte, N. C. Water-meter. No. 956,121; Apr. 26; Sp. p. 5275; Gaz. vol. 153; p. 926.
Magaw, Charles A., and D. MacVicar, Topeka, Kans. Automatic window-closing device. No. 946,244; Jan. 11; Sp. p. 2716; Gaz. vol. 150; p. 451.
Magdiel, Daniel H., assignor to Magdiel-Morris Manufacturing Company, Salt Lake City, Utah. Mold for concrete walls. No. 945,182; Jan. 4; Sp. p. 360; Gaz. vol. 150; p. 60.
Magdiel, Daniel H., assignor of one-half to Magdiel-Morris Manufacturing Company, Salt Lake City, Utah, and one-half to P. R. O'Connor, Seattle, Wash. Mold for concrete walls. No. 945,183; Jan. 4; Sp. p. 364; Gaz. vol. 150; p. 61.
Magdiel-Morris Manufacturing Company. (See Magdiel, Daniel H., assignor.)
Magdiel-Morris Manufacturing Company *et al.* (See Magdiel, Daniel H., assignor.)
Magee, Frank, *et al.* (See Moudy, Willard A., assignor.)
Magic Curler Company. (See Martin, James F., assignor.)
Magidson, Frank, *et al.* (See Neuman, Isaac, assignor.)
Magill, George C., assignor to The Tea Tray Company of Newark, N. J., Newark, N. J. Fire-extinguisher. No. 954,196; Apr. 5; Sp. p. 1058; Gaz. vol. 153; p. 180.
Maginnis, A. P. (See Dunbar, William W., assignor.)
Magna, Russell W., Holyoke, Mass. Battery-holder. No. 946,905; Jan. 18; Sp. p. 4272; Gaz. vol. 150; p. 702.
Magna, Russell W., Holyoke, Mass. Battery-box. No. 948,111; Feb. 1; Sp. p. 689; Gaz. vol. 151; p. 112.
Magna, Russell W., Holyoke, Mass., and L. G. W. Carpenter, Philadelphia, Pa. Blowpipe. No. 969,487; Sept. 6; Sp. p. 707; Gaz. vol. 158; p. 113.
Magner, James E., Avoca, Minn. Cable-traveler. No. 945,184; Jan. 4; Sp. p. 365; Gaz. vol. 150; p. 61.
Magnes, Max. (See Rosenbloom and Magnes.)
Magney, Joseph P., assignor to Spring Tire Company, Los Angeles, Cal. Elastic tire. No. 965,204; July 26; Sp. p. 4756; Gaz. vol. 156; p. 822.
Magnusson, Carl E. (See Frye and Magnusson.)
Magone, Hugh P., Race Track, Mont. Street or station indicator. No. 949,397; Feb. 15; Sp. p. 3410; Gaz. vol. 151; p. 595.
Magoon, Marius I., Hammond, Ind. Harness. No. 965,918; Aug. 2; Sp. p. 149; Gaz. vol. 157; p. 25.
Magor, Basil, New York, N. Y. Car-truck. No. 951,253; Mar. 8; Sp. p. 1592; Gaz. vol. 152; p. 285.
Magoris, Anthony E., Binghamton, N. Y. Appliance for the support of the foot. No. 947,113; Jan. 18; Sp. p. 4660; Gaz. vol. 150; p. 769.
Magson, Thomas, Anoka, Minn. Bundle-wiring machine. No. 956,387; Apr. 26; Sp. p. 5853; Gaz. vol. 153; p. 1018.
Mahan, Charles. (See Wild and Mahan.)
Mahan, Henry M., Clanton, Ala. Wagon-brake. No. 962,775; June 28; Sp. p. 5358; Gaz. vol. 155; p. 936.
Mahanay, Milton D., and J. D. Price; said Price assignor of one-half to T. F. McKenzie, Frederick, Okla. Oil-burner. No. 947,735; Jan. 25; Sp. p. 6043; Gaz. vol. 150; p. 1007.
Maher, David F., Watsonville, Cal. Type-writer attachment. No. 946,451; Jan. 11; Sp. p. 3253; Gaz. vol. 150; p. 523.
Maher, James M., Fremont, Nebr. Riprapping system. No. 975,551; Nov. 15; Sp. p. 3292; Gaz. vol. 160; p. 558.
Maher, Jeremiah J., Preston, Iowa. Lightning-rod support. No. 950,181; Feb. 22; Sp. p. 5105; Gaz. vol. 151; p. 896.
Maher, John J., Philadelphia, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler-tube spreader. No. 956,985; May 3; Sp. p. 1060; Gaz. vol. 154; p. 166.
Maher, John J., Philadelphia, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler-tube spreader. No. 956,986; May 3; Sp. p. 1062; Gaz. vol. 154; p. 166.
Maher, Thomas F. A., Pittsburg, Pa. Nut-lock. No. 975,145; Nov. 8; Sp. p. 2417; Gaz. vol. 160; p. 392.
Maher, Thomas J., New York, N. Y. Heliograph. No. 950,938; Mar. 1; Sp. p. 999; Gaz. vol. 152; p. 160.
Mahlen, Martin, Sauk Center, Minn. Heating-drum. No. 977,666; Dec. 6; Sp. p. 557; Gaz. vol. 161; p. 85.
Mahon, Charles W. (See Stroud and Mahon.)
Mahlke, Carl, assignor to The Firm, Röhrenkesselfabrik Mödling, vormals Dürr, Gehre & Co., Aktiengesellschaft, Mödling, Austria-Hungary. Water-tube boiler. No. 956,388; Apr. 26; Sp. p. 5856; Gaz. vol. 153; p. 1018.
Mahon, Emmett, Fairfield, Iowa. Electric fire-alarm. No. 979,977; Dec. 27; Sp. p. 5530; Gaz. vol. 161; p. 955.
Mahone, Charles R., assignor of one-fourth to W. A. Klevesahl, Richmond, Va. Machine for conditioning tobacco. No. 953,214; Mar. 29; Sp. p. 5668; Gaz. vol. 152; p. 1030.
Mahone, Edward, Tuskegee Institute, Ala. Scratch-harrow. No. 952,124; Mar. 15; Sp. p. 3363; Gaz. vol. 152; p. 605.
Mahoney, George, assignor of one-half to M. F. Price, Iowa City, Iowa. Cue-tipping machine. No. 955,819; Apr. 19; Sp. p. 4586; Gaz. vol. 153; p. 792.
Mahoney, James H., Worcester, Mass. Flush-valve. No. 963,231; July 5; Sp. p. 512; Gaz. vol. 156; p. 73.
Mahoney, Joseph N., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electropneumatically-operated controller. No. 962,713; June 28; Sp. p. 5234; Gaz. vol. 155; p. 914.
Mahoney, Joseph N., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Electric railway-brake. No. 979,868: Dec. 27; Sp. p. 5318; Gaz. vol. 161; p. 920.

Alphabetical list of patentees—Continued.

Mahoney, Joseph N., and O. S. McCurdy, Wilkinsburg, assignors to The Westinghouse Air Brake Company, Pittsburg, Pa. Magnetic brake device. No. 977,111; Nov. 29; Sp. p. 6707; Gaz. vol. 160; p. 1142.
Mahoney, Myles, Montreal, Quebec, Canada. Stay-bolt. No. 969,383; Sept. 6; Sp. p. 500; Gaz. vol. 158; p. 80.
Mahoney, Philip D., Fort Davis, Tex. Quilting-frame. No. 945,965; Jan. 11; Sp. p. 2139; Gaz. vol. 150; p. 356.
Mahoney, William P., Cheyenne, Wyo. Beer-tap. No. 950,858; Mar. 1; Sp. p. 843; Gaz. vol. 152; p. 135.
Mahood, John A., Enfield, Pa. Hedge-trimmer. No. 966,108; Aug. 2; Sp. p. 561; Gaz. vol. 157; p. 91.
Mahr, Julius A., Minneapolis, Minn. Tire-heating device. No. 945,966; Jan. 11; Sp. p. 2140; Gaz. vol. 150; p. 356.
Mahr, Julius A., Minneapolis, Minn. Oil-burner. No. 945,967; Jan. 11; Sp. p. 2142; Gaz. vol. 150; p. 356.
Mahr, Julius A., Minneapolis, Minn. Drive-wheel-tire-heating device. No. 945,968; Jan. 11; Sp. p. 2144; Gaz. vol. 150; p. 357.
Maiden, Arthur E., Fort Lee, N. J., assignor of one-half to E. L. Crans, New York, N. Y. Inflated aeroplane. No. 975,263; Nov. 8; Sp. p. 2678; Gaz. vol. 160; p. 433.
Maier, Emma. (See Marx and Maier.)
Maier, Frederick, Philadelphia, Pa. Drill-socket. No. 955,650; Apr. 19; Sp. p. 4234; Gaz. vol. 153; p. 734.
Maier, Joseph, *et al.* (See Rademacher, Frank, assignor.)
Maier, Louis H., assignor to J. H. Ludwig, New York, N. Y. Reversible bellows. No. 959,771; May 31; Sp. p. 7218; Gaz. vol. 154; p. 1225.
Maier, Louis H., assignor to J. H. Ludwig, New York, N. Y. Self-playing musical instrument. No. 961,724; June 14; Sp. p. 3046; Gaz. vol. 155; p. 528.
Maimone, John S. (See Woods and Maimone.)
Main, Fred F., Columbus, Ohio. Computing or adding machine. No. 953,276; Mar. 29; Sp. p. 5806; Gaz. vol. 152; p. 1049.
Main, Fred F., Chicago, Ill. Computing-machine. No. 976,086; Nov. 15; Sp. p. 4360; Gaz. vol. 160; p. 741.
Main, Fred F., Chicago, Ill. Computing-machine. No. 976,087; Nov. 15; Sp. p. 4364; Gaz. vol. 160; p. 741.
Main, Joseph F. (See Shortt, Howard G., assignor.)
Main, William J., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Sheet-delivery mechanism. No. 953,045; Mar. 29; Sp. p. 5286; Gaz. vol. 152; p. 974.
Main, William J., Westport, Conn., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y Inking device for printing-machines. No. 971,765; Oct. 4; Sp. p. 535; Gaz. vol. 159; p. 94.
Maine, Milton M., Portland, Oreg. Saw-table and feeding apparatus. No. 975,970; Nov. 15; Sp. p. 4146; Gaz. vol. 160; p. 701.
Maisel, Conrad M., Buffalo, assignor of one-half to H. Stradtman, Sloan, N. Y. Twine-holder. No. 966,758; Aug. 9; Sp. p. 2017; Gaz. vol. 157; p. 335.
Maitland, John, Swampscott, Mass. Holder for headwear and clothing. No. 961,626: June 14; Sp. p. 2866; Gaz. vol. 155; p. 495.
Maitland, John, assignor to Beattie Machine Works, Cohoes, N. Y. Folding-machine. No. 963,232; July 5; Sp. p. 514; Gaz. vol. 156; p. 73.
Maitrugue, Edmond F., Pontarlier, France. Spanner with automatic parallel locking action. No. 967,651; Aug. 16; Sp. p. 3858; Gaz. vol. 157; p. 662.
Majek, John W., Atwood, Kans. Breaking-plow. No. 962,646; June 28; Sp. p. 5088; Gaz. vol. 155; p. 890.
Majert, Wilhelm, Berlin, Germany. Producing powdered metallic tungsten or other hexavalent high-fusing-point metals. No. 946,551; Jan. 18; Sp. p. 3464; Gaz. vol. 150; p. 582.
Majert, Wilhelm, Berlin, Germany. Metallic-filament incandescent lamp. No. 949,153; Feb. 15; Sp. p. 2892; Gaz. vol. 151; p. 512.
Major, Edmund, Maitland, S. D. Separator and classifier. No. 973,363; Oct. 18; Sp. p. 4070; Gaz. vol. 159; p. 697.
Major, Stephen T. (See Richardson, George W., assignor.)
Makean, De Witt O., assignor of fifty one-hundredths to G. W. Fowler, Binghamton, N. Y. Driving mechanism for washing-machines. No. 950,725; Mar. 1; Sp. p. 576; Gaz. vol. 152; p. 90.
Makepeace, Frank, Kansas City, Mo. Truss. No. 949,543; Feb. 15; Sp. p. 3699; Gaz. vol. 151; p. 643.
Makinson, Oral A., Pratt, Kans. Oil vaporizer and burner. No. 973,526; Oct. 25; Sp. p. 4438; Gaz. vol. 159; p. 775.
Makowski, John F., assignor to The Perfection Steel Studding Co., San Francisco, Cal. Clip and studding for fireproof constructions. No. 975,368; Nov. 8; Sp. p. 2892; Gaz. vol. 160; p. 467.
Makowski, John F., assignor to Plaster Block Company, San Francisco, Cal. Mold for hollow partition-blocks. No. 977,025; Nov. 29; Sp. p. 6519; Gaz. vol. 160; p. 1113.
Makray, Paul, McKees Rocks, Pa. Game apparatus. No. 965,591; July 26; Sp. p. 5619; Gaz. vol. 156; p. 956.
Malachowski, Hermann. (See Rühling, Waldemar, assignor.)
Malaurie, Abel, Paris, France. Power-hammer. No. 979,522; Dec. 27; Sp. p. 4537; Gaz. vol. 161; p. 800.
Malchus, Arthur D. J., Silverton, Colo. Ore-classifier. No. 975,971; Nov. 15; Sp. p. 4147; Gaz. vol. 160; p. 701.

Malcolm, Charles A., Minden, W. Va. Brake-shoe. No. 972,202; Oct. 11; Sp. p. 1507; Gaz. vol. 159; p. 268.
Malcolm, Thomas, *et al.* (See Knox, Charles P., assignor.)
Malcom, Fred G. and G. C., Monroe, Ga. Plow attachment. No. 951,737; Mar. 8; Sp. p. 2578; Gaz. vol. 152; p. 446.
Malcom, George C. (See Malcom, Fred G. and G. C.)
Malcomb, Austin N., Burbank, Ohio. Tobacco-pipe. No. 960,181; May 31; Sp. p. 8127; Gaz. vol. 154; p. 1367.
Male, James M., *et al.* (See Jones, David F., assignor.)
Malensheck, John, and F. Kachewski, West Allis, Wis. Weighing apparatus for portable cars. No. 977,891; Dec. 6; Sp. p. 1024; Gaz. vol. 161; p. 162.
Maley, Alfred W. (See Cockshott and Maley.)
Maley, Frederick M., Ridley Park, Pa. Foot-rest. No. 969,551; Sept. 6; Sp. p. 862; Gaz. vol. 158; p. 136.
Malhère, Leon L. F., Beaumont le Roger, France, assignor to Albert & E. Henkels, Langerfeld, near Barmen, Germany. Jacquard. No. 955,177; Apr. 19; Sp. p. 3191; Gaz. vol. 153; p. 573.
Malick, Henry, Belmont, W. Va. Cuspidor-cleaner. No. 962,370; June 21; Sp. p. 4466; Gaz. vol. 155; p. 770.
Malick, Henry, Belmont, W. Va. Ribbon-holding device. No. 970,446; Sept. 13; Sp. p. 2764; Gaz. vol. 158; p. 465.
Malick, Henry, Belmont, W. Va., assignor, by mesne assignments, to Keystone Novelty Company, Beaver Falls, Pa. Ink-well. No. 962,968; June 28; Sp. p. 5712; Gaz. vol 155; p. 1001.
Malitch, Charles, McKees Rocks, Pa. Rail-chair. No. 958,964; May 24; Sp. p. 5546; Gaz. vol. 154; p. 932.
Malivert, Jules E., assignor of one-half to L. Bousquet, Paris, France. Starting explosion-engines. No. 947,021; Jan. 18; Sp. p. 4500; Gaz. vol. 150; p. 741.
Malkasian, Hagop H., Providence, R. I. Curtain-rod. No. 969,110; Aug. 30; Sp. p. 6955; Gaz. vol. 157; p. 1211.
Malkiel, Matthias, St. Petersburg, Russia. Incandescent petroleum-lamp. No. 945,791; Jan. 11; Sp. p. 1740; Gaz. vol. 150; p. 292.
Malleable Iron Range Company. (See Rogers, Frederick W., assignor.)
Malley, John H., Harrisville, R. I. Gearing. No. 977,207; Nov. 29; Sp. p. 6924; Gaz. vol. 160; p. 1176.
Mallin, Isaac H., assignor to The Gregg Publishing Company, Chicago, Ill. Tray attachment for type-writing machines. No. 953,851; Apr. 5; Sp. p. 343; Gaz. vol. 153; p. 61.
Mallman, James, Sheboygan, Wis. Recording calculating-machine. No. 968,674; Aug. 30; Sp. p. 6057; Gaz. vol. 157; p. 1063.
Mallman, James, Sheboygan, Wis. Recording-calculator. No. 970,250; Sept. 13; Sp. p. 2382; Gaz. vol. 158; p. 401.
Mallon, John A., Carlstadt, N. J., assignor of one-half to J. E. Halsted, New York, N. Y. Machine for printing from engraved plates. No. 945,281; Jan. 4; Sp. p. 571; Gaz. vol. 150; p. 94.
Mallory, Charles H., Garrettsville, Ohio. Washing-machine. No. 945,131; Jan. 4; Sp. p. 249; Gaz. vol. 150; p. 43.
Mallory, Enrique. (See Mörk, Christen, assignor.)
Mallory, George W., Blenheim, Ontario, Canada. Door catch or check. No. 959,241; May 24; Sp. p. 6126; Gaz. vol. 154; p. 1023.
Mallory, Harry C., New York, N. Y. Heating system. No. 954,532; Apr. 12; Sp. p. 1789; Gaz. vol. 153; p. 321.
Mallory, Harry C., Chicago, Ill. Regulating heating devices. No. 963,007; June 28; Sp. p. 5794; Gaz. vol. 155; p. 1014.
Mallory, James L., Evanston, Ill. Fastening device for windows. No. 961,627; June 14; Sp. p. 2868; Gaz. vol. 155; p. 496.
Malloy, Mary A. (See Buchholz and Malloy.)
Malloy, Thomas, assignor of one-third to J. J. Gilman, Chicago, Ill. Loading-machine. No. 979,778; Dec. 27; Sp. p. 5103; Gaz. vol. 161; p. 888.
Malmedie, Charles H., assignor to Morse Twist Drill & Machine Company, New Bedford, Mass. Adjustable reamer. No. 972,115; Oct. 4; Sp. p. 1298; Gaz. vol. 159; p. 219.
Malmedie, Charles H., assignor to Morse Twist Drill & Machine Company, New Bedford, Mass. Adjustable reamer. No. 972,116; Oct. 4; Sp. p. 1299; Gaz. vol. 159; p. 220.
Malmedie, Charles H., assignor to Morse Twist Drill & Machine Company, New Bedford, Mass. Adjustable reamer. No. 972,117; Oct. 4; Sp. p. 1300; Gaz. vol. 159; p. 220.
Malmgren, Peter, Delaware, Iowa. Gambrel. No. 968,782; Aug. 30; Sp. p. 6297; Gaz. vol. 157; p. 1099.
Malmquist, Chris H. and G. A., Jamestown, N. Y. Vegetable masher and mixer. No. 946,610; Jan. 18; Sp. p. 3576; Gaz. vol. 150; p. 601.
Malmquist, George A. (See Malmquist, Chris H. and G. A.)
Malmros, Gustaf, and F. F. Adams, New York, N. Y. Spot-cleaner. No. 970,069; Sept. 13; Sp. p. 2007; Gaz. vol. 158; p. 340.
Malone, Bettie A., Franklin, Ky. Ash-screen. No. 948,591; Feb. 8; Sp. p. 1718; Gaz. vol. 151; p. 298.

Alphabetical list of patentees—Continued.

Malone, Frank, assignor of one-fourth to C. S. Beach and one-fourth to W. Knox, Frontier, Wyo. Railway-switch. No. 970,343; Sept. 13; Sp. p. 2555; Gaz. vol. 158; p. 431.
Malone, James F., Lawrence, Ark. Revolving meat-block. No. 971,389; Sept. 27; Sp. p. 4759; Gaz. vol. 158; p. 832.
Maloney, Clifton. (See Fearon, Thomas E., assignor.)
Maloney, James P., Elmhurst, Pa. Lantern-lighting device. No. 977,650; Dec. 6; Sp. p. 524; Gaz. vol. 161; p. 79.
Maloy, Lewis J., Copperhill, Tenn. Lubricator. No. 972,701; Oct. 11; Sp. p. 2581; Gaz. vol. 159; p. 440.
Maloy, Lewis J., Copperhill, Tenn. Nut-lock. No. 972,702; Oct. 11; Sp. p. 2585; Gaz. vol. 159; p. 441.
Malphurs, Joel W., Gainesville, Fla. Insect-trap. No. 951,763; Mar. 8; Sp. p. 2639; Gaz. vol. 152; p. 456.
Maisch, Herman, Lake Geneva, Wis. Hammer. No. 955,524; Apr. 19; Sp. p. 3940; Gaz. vol. 153; p. 691.
Malthaner, John F., Chillicothe, Mo. Insulator. No. 965,723; July 26; Sp. p. 5896; Gaz. vol. 156; p. 1002.
Maltman, Francis D., Geyserville, Cal. Pulverizer. No. 951,138; Mar. 8; Sp. p. 1372; Gaz. vol. 152; p. 249.
Malton, Frank, assignor to Warne, Wright & Rowland Limited, Birmingham, England. Machine for cutting out articles from metal sheets or bars. No. 972,203; Oct. 11; Sp. p. 1509; Gaz. vol. 159; p. 268.
Malz, Gustav, Brake, Germany. Toy. No. 945,849; Jan. 11; Sp. p. 1885; Gaz. vol. 150; p. 313.
Mamaux, Annie E. (See Mamaux, Isaac A., assignor.)
Mamaux, Isaac A., Pittsburg, Pa. Initiating-machine. No. 966,935; Aug. 9; Sp. p. 2383; Gaz. vol. 157; p. 391.
Mamaux, Isaac A., assignor to A. E. Mamaux, Pittsburg, Pa. Trick-gun. No. 967,140; Aug. 9; Sp. p. 2822; Gaz. vol. 157; p. 463.
Mambourg Glass Sheet Machine Company, The. (See Mambourg and Houze, assignors.)
Mambourg, Leopold, and U. Houze, Mount Vernon, Ohio. Glass-drawing apparatus. No. 965,205; July 26; Sp. p. 4758; Gaz. vol. 156; p. 823.
Mambourg, Leopold, and U. Houze, assignors to The Mambourg Glass Sheet Machine Company, Mount Vernon, Ohio. Glass-drawing apparatus. No. 970,633; Sept. 20; Sp. p. 3207; Gaz. vol. 158; p. 552.
Manard, James W., Rockford, Ill. Awning-lift. No. 953,852; Apr. 5; Sp. p. 344; Gaz. vol. 153; p. 61.
Manchee, Wilfrid A., assignor to Newark Spring Mattress Company, Newark, N. J. Bed-bottom. No. 958,266; May 17; Sp. p. 3947; Gaz. vol. 154; p. 664.
Manchester, Jerome J., Indianapolis, Ind. Pocket match-case. No. 947,004; Jan. 18; Sp. p. 4459; Gaz. vol. 150; p. 735.
Manchester, Jerome J., Indianapolis, Ind. Pocket match-case. No. 976,386; Nov. 22; Sp. p. 5108; Gaz. vol. 160; p. 867.
Manchester, Percival. (See Donaldson, James H., assignor.)
Mancuso, Anthony. (See Harris and Mancuso.)
Mandelbaum, Emanuel. (See Burke, John, assignor.)
Mandelberg, Joseph, Omaha, Nebr. Dispensing device for liquids. No. 977,112; Nov. 29; Sp. p. 6709; Gaz. vol. 160; p. 1142.
Mander, John. (See Roberts and Mander.)
Mandet, Jacques, Paris, France. Pressure-regulator. No. 977,811; Dec. 6; Sp. p. 854; Gaz. vol. 161; p. 134.
Mandeville, J. Lawrence. (See Kaiser, Charles W., assignor.)
Mandeville, John E., Hawley, Pa. Reinforced-concrete bridge. No. 954,750; Apr. 12; Sp. p. 2288; Gaz. vol. 153; p. 397.
Manelius, Ludwig, Philadelphia, Pa. Window-screen. No. 975,146; Nov. 8; Sp. p. 2418; Gaz. vol. 160; p. 392.
Manes, Harry, Jersey City, N. J. Motor-operated fan. No. 950,141; Feb. 22; Sp. p. 5013; Gaz. vol. 151; p. 881.
Maney, Virginia D., Hallettsville, Tex. Ink-bottle holder for desks. No. 959,772; May 31; Sp. p. 7221; Gaz. vol. 154; p. 1225.
Mangan, James H., New Hampton, Iowa. Carpet-beater. No. 948,592; Feb. 8; Sp. p. 1720; Gaz. vol. 151; p. 298.
Mangelsdorff, Max F., assignor to Combustion Utilities Company, New York, N. Y. Fuel-burner for cement-kilns. No. 977,113; Nov. 29; Sp. p. 6711; Gaz. vol. 160; p. 1143.
Manhattan Braid Company. (See Eiseman, Jesse B., assignor.)
Manhattan Brass Company. (See Gennert, Emil F., assignor.)
Manhattan Brass Company, The. (See Gross, August, assignor.)
Manhattan Electrical Supply Company. (See Avery, Charles E., assignor.)
Manhattan Electrical Supply Company. (See Heller, John L., assignor.)
Manhattan Machine Supply Company, The. (See Miller, William V., assignor.)
Manhattan Manufacturing Company. (See Kempshall, Eleazer, assignor.)
Manhattan Rubber Manufacturing Company. (See Ball, Frank B., assignor.)
Manhattan Screw & Stamping Works. (See Stevens, Frederick M., assignor.)
Manierre, Arthur. (See Tevander and Manierre.)
Manlet, Peter L., St. Paul, Minn. Nut-lock. No. 952,917; Mar. 22; Sp. p. 5023; Gaz. vol. 152; p. 903.
Manley, Howard I., Webb City, Mo. Cleaning articles of metal and glass. No. 951,824; Mar. 15; Sp. p. 2766; Gaz. vol. 152; p. 506.
Mann, Arthur S., Schenectady, N. Y. Feeding mixed fuels to furnaces. No. 952,266; Mar. 15; Sp. p. 3633; Gaz. vol. 152; p. 653.
Mann, Bertram H., Webster Groves, Mo. Lightning-arrester. No. 963,233; July 5; Sp. p. 519; Gaz. vol. 156; p. 73.
Mann, Charles B., San Diego, Cal. Rotary snow-plow. No. 971,289; Sept. 27; Sp. p. 4567; Gaz. vol. 158; p. 799.
Mann, Charles B., San Diego, Cal. Snow-melting device. No. 974,898; Nov. 8; Sp. p. 1851; Gaz. vol. 160; p. 308.
Mann, Charles B., Jr. (See Robinson, Harry S., assignor.)
Mann, Edward N., Alma, Kans. Tool for watch makers and repairers. No. 957,228; May 10; Sp. p. 1583; Gaz. vol. 154; p. 279.
Mann, George H., Leeds, England. Valve and valve-gear for internal-combustion engines. No. 970,525; Sept. 20; Sp. p. 2951; Gaz. vol. 158; p. 514.
Mann, Guillaume, Paris, France. Hot-air motor. No. 966,032; Aug. 2; Sp. p. 410; Gaz. vol. 157; p. 65.
Mann, Henry N., Chicago, Ill. Shipping-package. No. 955,525; Apr. 19; Sp. p. 3942; Gaz. vol. 153; p. 692.
Mann, Henry N., Chicago, Ill. Merchandise-package. No. 961,873; June 21; Sp. p. 3406; Gaz. vol. 155; p. 602.
Mann, Miles H., assignor to F. W. Buffum, Louisiana, Mo. Web-feeding mechanism. No. 954,751; Apr. 12; Sp. p. 2289; Gaz. vol. 153; p. 397.
Mann, Miles H., assignor to Buffum Tool Company, Louisiana, Mo. Card-printing machine. No. 957,229; May 10; Sp. p. 1584; Gaz. vol. 154; p. 280.
Mann, Miles H., assignor to Buffum Tool Company, Louisiana, Mo. Printing-machine. No. 959,773; May 31; Sp. p. 7221; Gaz. vol. 154; p. 1226.
Mann, Miles H., assignor to Buffum Tool Company, Louisiana Mo. Card-printing machine. No. 972,554; Oct. 11; Sp. p. 2261; Gaz. vol. 159; p. 390.
Mann, Miles H., assignor to Buffum Tool Company, Louisiana, Mo. Guide for printing-machines. No. 972,555; Oct. 11; Sp. p. 2263; Gaz. vol. 159; p. 391.
Mann, Miles H., Louisiana, W. M. and W. M. Oungst, Greenwood, assignors to F. W. Buffum, Louisiana, Mo. Web feeding and cutting attachment. No. 954,817; Apr. 12; Sp. p. 2454; Gaz. vol. 153; p. 419.
Mann, Oscar F., Indianapolis, Ind. Building-block. No. 952,918; Mar. 22; Sp. p. 5024; Gaz. vol. 152; p. 903.
Mann, Otto. (See Pratt, Lewis M., assignor.)
Mann, Samuel, Boston, Mass., assignor to Ideal Hat Frame Machine Company. Hat-frame machine. No. 970,935; Sept. 20; Sp. p. 3832; Gaz. vol. 158; p. 654.
Mann, William B., Baltimore, Md., assignor to P. Mauro and S. T. Cameron, trustees, Washington, D. C. Air-brake. No. 950,539; Mar. 1; Sp. p. 163; Gaz. vol. 152; p. 27.
Mannello, Angelo, New York, N. Y. Mandolin. No 945,563; Jan. 4; Sp. p. 1202; Gaz. vol. 150; p. 186.
Manners, Thomas, Rice, Tex. Axle-box lubricator. No. 974,407; Nov. 1; Sp. p. 737; Gaz. vol. 160; p. 112.
Mannes, George, Toledo, Ohio. Metal wheel-hub. No. 946,640; Jan. 18; Sp. p. 3646; Gaz. vol. 150; p. 611.
Mannesmann, Max, Remscheid, Germany. Shoe and boot. No. 963,605; July 5; Sp. p. 1293; Gaz. vol. 156; p. 199.
Manning, Bowman & Company. (See Chapman, James W., assignor.)
Manning Bowman and Company. (See Gutermann, Edward A., assignor.)
Manning, Bowman & Company. (See Savage, George E., assignor.)
Manning Bowman & Company. (See Savage and Gutermann, assignors.)
Manning, Celia I. (See Reed, Walter B., assignor.)
Manning, Coleman J., Medford, Mass. Massage apparatus. No. 946,972; Jan. 18; Sp. p. 4403; Gaz. vol. 150; p. 724.
Manning, Coleman J., Medford, assignor to American Steam Gauge and Valve Manufacturing Company, Boston, Mass. Pressure-gage. No. 957,471; May 10; Sp. p. 2084; Gaz. vol. 154; p. 361.
Manning, Frank, Philadelphia, Pa. Attachment for typewriters. No. 973,058; Oct. 18; Sp. p. 3415; Gaz. vol. 159; p. 592.
Mannix, William H. (See Norton and Mannix.)
Manns, Albert G., Oconomowoc, assignor to A. O. Trostel, Milwaukee, Wis. Detanning. No. 967,215; Aug. 16; Sp. p. 2979; Gaz. vol. 157; p. 515.
Manns, William H., Waynesboro, Pa. Skimming-regulator for ice-making apparatus. No. 979,523; Dec. 27; Sp. p. 4539; Gaz. vol. 161; p. 801.
Mans, Albert, Dieghem, Belgium. Solid tire for vehicle-wheels. No. 962,444; June 28; Sp. p. 4653; Gaz. vol. 155; p. 821.
Mans, Albert, Dieghem, Belgium. Pneumatic shock-absorber. No. 963,606; July 5; Sp. p. 1294; Gaz. vol. 156; p. 199.
Mansell, Alfred A., London, and G. Smith, Chelsea, London, England. Appliance for preventing side slipping of wheels on motor-vehicles. No. 949,190; Feb. 15; Sp. p. 2962; Gaz. vol. 151; p. 524.

Alphabetical list of patentees—Continued.

Mansfield, James E., *et al.* (See Thomas, Howard W., assignor.)
Mansfield, Robert D., *et al.* (See Gedeon, James, assignor.)
Manshel, Charles, Providence, R. I. Vending-machine. No. 959,063; May 24; Sp. p. 5750; Gaz. vol. 154; p. 964.
Manson, Ray H., assignor, by mesne assignments, to The Dean Electric Company, Elyria, Ohio. Telephone meter system and apparatus. No. 946,380; Jan. 11; Sp. p. 3102; Gaz. vol. 150; p. 498.
Manson, Ray H., assignor, by mesne assignments, to The Dean Electric Company, Elyria, Ohio. Telephone meter system and apparatus. No. 946,381; Jan. 11; Sp. p. 3104; Gaz. vol. 150; p. 498.
Manson, Ray H., assignor, by mesne assignments, to The Dean Electric Company, Elyria, Ohio. Telephone meter system and apparatus. No. 946,382; Jan. 11; Sp. p. 3107; Gaz. vol. 150; p. 499.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-exchange system. No. 952,267; Mar. 15; Sp. p. 3634; Gaz. vol. 152; p. 653.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Protective device. No. 957,977; May 17; Sp. p. 3208; Gaz. vol. 154; p. 565.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-meter system and apparatus. No. 958,145; May 17; Sp. p. 3700; Gaz. vol. 154; p. 625.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Electrical condenser. No. 961,978; June 21; Sp. p. 3615; Gaz. vol. 155; p. 636.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-meter and circuit connection therefor. No. 969,789; Sept. 13; Sp. p. 1385; Gaz. vol. 158; p. 243.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Relay. No. 977,114; Nov. 29; Sp. p. 6713; Gaz. vol. 160; p. 1143.
Mansor, Massoud, Orrville, Ohio. Ice-cream-can cover. No. 971,290; Sept. 27; Sp. p. 4567; Gaz. vol. 158; p. 799.
Mansor, Massond, Youngstown, Ohio. Cuspidor. No. 978,765; Dec. 13; Sp. p. 2917; Gaz. vol. 161; p. 493.
Mantelet, Alexis, Fils, Paris, France. Breast-douche apparatus. No. 973,445; Oct. 18; Sp. p. 4251; Gaz. vol. 159; p. 724.
Manteufel, Otto C., Milwaukee, Wis. Bill-book and record binder. No. 953,046; Mar. 29; Sp. p. 5288; Gaz. vol. 152; p. 974.
Manthey, George, assignor of one-half to J. N. Waller, Seattle, Wash. Carpet-sweeper. No. 962,372; June 21; Sp. p. 4469; Gaz. vol. 155; p. 771.
Mantius, Otto, assignor to Zaremba Company, Chicago, Ill. Evaporating solutions. No. 951,322; Mar. 8; Sp. p. 1755; Gaz. vol. 152; p. 308.
Manufacturers Equipment Company. (See Grebel and Theis, assignors.)
Manufacturers Machine Company. (See Cummings, Henry H., assignor.)
Manufacturers Machine Company. (See Eno, Frank F., assignor.)
Manufacturers Machine Company. (See Gelzenlichter, John.)
Manufacturers Machine Company. (See Glass, Perley R., assignor.)
Manufacturers Machine Company. (See Leavitt, John E., assignor.)
Manufacturers Machine Company. (See Phelan, Merton D., assignor.)
Manufacturers Machine Company. (See Plant, Thomas G., assignor.)
Manufacturers' Sales Co., The. (See Elkins, Stephen F., assignor.)
Manwaring, Albert H. (See Bundy and Manwaring.)
Manz, Felix, assignor of one-half to F. W. Stangee, Pittsburg, Pa. Engine. No. 954,982; Apr. 12; Sp. p. 2813; Gaz. vol. 153; p. 477.
Mapel, Lewis A., assignor of one-sixth to W. J. Tucher, one-sixth to P. W. Fallis, one-sixth to P. M. Quirke, one-sixth to W. C. Wood, and one-sixth to C. H. Jones, St. Louis, Mo. Automatic mechanical stoker. No. 945,469; Jan. 4; Sp. p. 990; Gaz. vol. 150; p. 156.
Mapes, John H., Burlington, Iowa. Ice-saw. No. 956,812; May 3; Sp. p. 676; Gaz. vol. 154; p. 107.
Maples, George W., Boaz, Mo. Brake-shoe holder. No. 947,923; Feb. 1; Sp. p. 298; Gaz. vol. 151; p. 50.
Mar Lett, Ella J., Pennsboro, W. Va. Making pie-filling composition. No. 951,504; Mar. 8; Sp. p. 2124; Gaz. vol. 152; p. 368.
Marable, Richard P., Yuma, Ariz. Aerial navigation. No. 970,842; Sept. 20; Sp. p. 3659; Gaz. vol. 158; p. 625.
Maranda, Albert H., Pittsburg, Pa. Drawing-board attachment. No. 962,776; June 28; Sp. p. 5360; Gaz. vol. 155; p. 936.
Marble, A. D. (See Fowler, Lewis D., assignor.)
Marble, George W., assignor of one-half to W. R. Donaldson, Chicago, Ill. Filler or junk plate for the crank-cases of explosive-engines. No. 962,445; June 28; Sp. p. 4654; Gaz. vol. 155; p. 822.
Marble, James E., assignor of one-third to J. J. Layden, Albany, N. Y. Train-pipe coupling. No. 974,088; Oct. 25; Sp. p. 5596; Gaz. vol. 159; p. 970.
Marble, Walter P., Cambridge, Mass. Valve-handle. No. 954,533; Apr. 12; Sp. p. 1790; Gaz. vol. 153; p. 321.
Marble, Webster L., Gladstone, Mich. Folding stock for firearms. No. 961,511; June 14; Sp. p. 2621; Gaz. vol. 155; p. 457.
Marcaurele, Frank. (See Evans, Marcaurele, and Langlois.)
March, John, Dillon, Mont. Steam-pump. No. 962,906; June 28; Sp. p. 5605; Gaz. vol. 155; p. 982.
March, John, Dillon, Mont. Steam-engine. No. 962,907; June 28; Sp. p. 5607; Gaz. vol. 155; p. 982.
Marchand, Alexis, Bridgeport, Wash. Animal-trap. No. 947,250; Jan. 25; Sp. p. 4947; Gaz. vol. 150; p. 843.
Marchand, Omer, St. Paul l'Ermite, Quebec, Canada, assignor of one-third to A. Glackmeyer, New York, N. Y., one-sixth to A. Archambault, one-twelfth to J. L. Deschamp, and one-twelfth to L. L. Archambault, St. Paul l'Ermite, Canada. Paint. No. 956,389; Apr. 26; Sp. p. 5857; Gaz. vol. 153; p. 1018.
Marchand, Omer, St. Paul l'Ermite, Quebec, Canada, assignor of one-third to A. Glackmeyer, New York, N. Y., one-sixth to A. Archambault, one-twelfth to J. L. Deschamp, and one-twelfth to L. L. Archambault, St. Paul l'Ermite, Canada. Paint. No. 956,390; Apr. 26; Sp. p. 5859; Gaz. vol. 153; p. 1019.
Marcile, Felix. (See Brand, Marcile, and Sheldon.)
Marco, Stephen, San Francisco, Cal. Automatic slack-adjuster. No. 968,377; Aug. 23; Sp. p. 5409; Gaz. vol. 157; p. 933.
Marconi, David, Rennie, Manitoba, Canada. Method and construction for the prevention of sink-holes in railway-beds No. 956,987; May 3; Sp. p. 1063; Gaz. vol. 154; p. 167.
Marconi, Guglielmo, London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Apparatus for wireless telegraphy. No. 954,640; Apr. 12; Sp. p. 2029; Gaz. vol. 153; p. 357.
Marconi, Guglielmo, London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Wireless telegraphy. No. 954,641; Apr. 12; Sp. p. 2030; Gaz. vol. 153; p. 357.
Marconi Wireless Telegraph Company of America. (See Fleming, John A., assignor.)
Marconi Wireless Telegraph Company of America. (See Marconi, Guglielmo, assignor.)
Marcuccilli, Camillo, Chicago, Ill. Baking-iron. No. 965,475; July 26; Sp. p. 5345; Gaz. vol. 156; p. 915.
Marcure, James, Pawtucket, R. I., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 979,779; Dec. 27; Sp. p. 5104; Gaz. vol. 161; p. 889.
Marcus, Felix, Philadelphia, Pa., assignor to Williams & Marcus Company. Ticket folding and cutting machine. No. 952,456; Mar. 22; Sp. p. 4024; Gaz. vol. 152; p. 745.
Marcus, Marks. (See Finestone and Marcus.)
Marcus, Michael, Wooster, Ohio. Brush. No. 953,277; Mar. 29; Sp. p. 5806; Gaz. vol. 152; p. 1050.
Marden, Aldis H., West Somerville, Mass. Signal-bell-cord hanger for cars. No. 971,291; Sept. 27; Sp. p. 4568; Gaz. vol. 158; p. 799.
Marden, Chester G., Brooks, Me. Potato-cutter. No. 962,373; June 21; Sp. p. 4471; Gaz. vol. 155; p. 771.
Marden, Henry G., Quincy, assignor to John Walker Machine Company, Boston, Mass. Clutch. No. 964,874; July 19; Sp. p. 4094; Gaz. vol. 156; p. 682.
Marek, Ernest, Chicago, Ill. Coupling. No. 957,695; May 10; Sp. p. 2536; Gaz. vol. 154; p. 439.
Maren-Covick, Edward, Buffalo, N. Y. Combined letter-sheet and envelop. No. 957,172; May 3; Sp. p. 1431; Gaz. vol. 154; p. 229.
Marengo, William E., Worcester, assignor of one-half to J. B. Proulx, Southbridge, Mass. Grate. No. 959,568; May 31; Sp. p. 6810; Gaz. vol. 154; p. 1159.
Margetts, Frederick W., East Dulwich, England. Spring-wheel for vehicles. No. 950,049; Feb. 22; Sp. p. 4842; Gaz. vol. 151; p. 852.
Margolis, Louis, Ravenna, Ohio. Sad-iron. No. 952,011; Mar. 15; Sp. p. 3157; Gaz. vol. 152; p. 568.
Marie, Nicholas, Peoria, Ill. Filtering apparatus. No. 948,180; Feb. 1; Sp. p. 819; Gaz. vol. 151; p. 135.
Marien, Charles A., St. Louis, Mo. Cushion-tire wheel. No. 979,869; Dec. 27; Sp. p. 5321; Gaz. vol. 161; p. 920.
Marien, Charles A., St. Louis, Mo. Cushion-tire wheel. No. 979,870; Dec. 27; Sp. p. 5322; Gaz. vol. 161; p. 920.
Marik, Frank. (See Marik, Joseph and F.)
Marik, Joseph and F., Pittsburg, Pa. Heating gas-burner. No. 966,343; Aug. 2; Sp. p. 1032; Gaz. vol. 157; p. 166.
Marine Producer Gas Power Company. (See Straub, Constantine L., assignor.)
Marine Salvage Company. (See Smith, George W., assignor.)
Marinsky, Davis, New York, N. Y. Collar supporter and retainer. No 950,073; Feb. 22; Sp. p. 4876; Gaz. vol. 151; p. 858.
Marinsky, Davis, New York, N. Y. Hair-curling device. No. 967,216; Aug. 16; Sp. p. 2973; Gaz. vol. 157; p. 515.
Marinsky, Davis, New York, N. Y. Waist-belt. No. 971,766; Oct. 4; Sp. p. 537; Gaz. vol. 159; p. 94.
Marinsky, Davis, New York, N. Y. Type-writing machine. No. 979,680; Dec. 27; Sp. p. 4882; Gaz. vol. 161; p. 855.

Marinsky, Davis, New York, N. Y. Means for creasing the legs of trousers. No. 979,780; Dec. 27; Sp. p. 5106; Gaz. vol. 161; p. 889.
Marinsky, Davis, assignor to W. Lowrie, New York, N. Y. Collar-attaching device. No. 945,240; Jan. 4; Sp. p. 489; Gaz. vol. 150; p. 80.
Marinsky, Davis, assignor to W. Lowrie, New York, N. Y. Reinforcing and supporting device for flexible collars. No. 962,514; June 28; Sp. p. 4799; Gaz. vol. 155; p. 845.
Marion Steam Shovel Company, The. (See King and Barnhart, assignors.)
Marion Steam Shovel Company, The. (See King, Barnhart, and King, assignors.)
Maris, Joseph B. (See Absalom and Maris.)
Mark, Charlie E., Chicago, Ill. Ore-roasting furnace. No. 952,680; Mar. 22; Sp. p. 4527; Gaz. vol. 152; p. 823.
Mark, Charlie E., Chicago, Ill. Suspended tent. No. 961,704; June 14; Sp. p. 3011; Gaz. vol. 155; p. 521.
Mark, William E., Woodhull, assignor to The Oliver Typewriter Company, Chicago, Ill. Tabulator for typewriting machines. No. 946,245; Jan. 11; Sp. p. 2720; Gaz. vol. 150; p. 452.
Markarian, Melkon, Fresno, Cal. Differential-axle device. No. 964,038; July 12; Sp. p. 2229; Gaz. vol. 156; p. 367.
Markel, Charles Clinton, Iowa. Attachment for driving-boxes. No. 966,344; Aug. 2; Sp. p. 1033; Gaz. vol. 157; p. 167.
Markel, Charles, Clinton, Iowa. Tire-retainer. No. 978,766; Dec. 13; Sp. p. 2918; Gaz. vol. 161; p. 493.
Markel, Harley R., Columbus, Ohio. Insulator. No. 971,683; Oct. 4; Sp. p. 362; Gaz. vol. 159; p. 63.
Markert, John P., Brooklyn, N. Y. Blank for covering shouldered-neck boxes. No. 956,590; May 3; Sp. p. 182; Gaz. vol. 154; p. 31.
Markey, David J., Frederick, Md. Shoe-tree. No. 971,622; Oct. 4; Sp. p. 244; Gaz. vol. 159; p. 43.
Markey, John N. (See Sawyer, John H., assignor.)
Markham Air Rifle Company. (See Roe, Ernest S., assignor.)
Markham, Charles M., Chicago, Ill. Support for concrete forms. No. 960,657; June 7; Sp. p. 852; Gaz. vol. 155; p. 140.
Markham, R. E. (See Prosser, John E., assignor.)
Markham, Romondo D., assignor to Auto Lock Co., Chicago, Ill. Lock for motor-starting cranks. No. 958,815; May 24; Sp. p. 5218; Gaz. vol. 154; p. 880.
Markham, William J. (See Berry and Markham.)
Markinsky, Davis, assignor to W. Lowrie, New York, N. Y. Hat-pin. No. 945,239; Jan. 4; Sp. p. 487; Gaz. vol. 150; p. 80.
Markle, George W., Cloquet, Minn. Safety device. No. 979,978; Dec. 27; Sp. p. 5531; Gaz. vol. 161; p. 955.
Markle, Hyman E., Nashville, Tenn. Multiplex graphophone. No. 962,446; June 28; Sp. p. 4655; Gaz. vol. 155; p. 822.
Markle, Jacob. (See Smith, Bertrum F., assignor.)
Markle, John F. (See Cafferty and Markle.)
Markle, Reuben R., Gros Ventre, Alberta, Canada. Combined packer and harrow attachment for sulky-plows. No. 950,699; Mar. 1; Sp. p. 505; Gaz. vol. 152; p. 81.
Markley, Frank E., Paola, Kans. Replanter attachment for cultivators. No. 977,115; Nov. 29; Sp. p. 6715; Gaz. vol. 160; p. 1143.
Marko, Paul M., New York, N. Y. Storage battery. No. 945,564; Jan. 4; Sp. p. 1202; Gaz. vol. 150; p. 186.
Marko, Paul M., New York, N. Y. Storage-battery indicator. No. 964,994; July 19; Sp. p. 4334; Gaz. vol. 156; p. 723.
Marko, Paul M., New York, N. Y. Storage battery. No. 964,995; July 19; Sp. p. 4336; Gaz. vol. 156; p. 723.
Markovitz, Harry, Braddock, Pa. Lock. No. 975,880; Nov. 15; Sp. p. 3972; Gaz. vol. 160; p. 669.
Markowski, Constanti E., Washington, D. C. Horseshoe safety device. No. 977,812; Dec. 6; Sp. p. 856; Gaz. vol. 161; p. 134.
Marks, Al, Milwaukee, Wis. Advertising device. No. 954,752; Apr. 12; Sp. p. 2296; Gaz. vol. 153; p. 397.
Marks, Edward I. (See Van Court and Marks.)
Marks, Edward S., Auburn, N. Y., assignor to Ohio Tool Company. Bit-brace. No. 957,696; May 10; Sp. p. 2537; Gaz. vol. 154; p. 439.
Marks, Paul J., assignor to Eastman Kodak Co., Rochester, N. Y. Photographic shutter. No. 946,679; Jan. 18; Sp. p. 3724; Gaz. vol. 150; p. 623.
Marks, William D., Westport, N. Y. Gearing. No. 965,846; July 26; Sp. p. 6155; Gaz. vol. 156; p. 1044.
Marks, William J., and J. Lueckert, McKeesport, Pa. Wrench. No. 946,383; Jan. 11; Sp. p. 3110; Gaz. vol. 150; p. 500.
Märksch, Paul, Vohwinkel, assignor to W. & G. Vogel, Elberfeld, Germany. Combined hinge and door-check. No. 973,680; Oct. 25; Sp. p. 4768; Gaz. vol. 159; p. 829.
Markwell, Andrew E., assignor of one-half to C. T. Gossett, St. Louis, Mo. Linotype-machine. No. 968,064; Aug. 23; Sp. p. 4738; Gaz. vol. 157; p. 825.
Markwick, John, Scranton, Pa. Spoke-socket. No. 947,390; Jan. 25; Sp. p. 5305; Gaz. vol. 150; p. 891.
Markwick, John, Scranton, Pa. Spoke-socket. No. 978,045; Dec. 6; Sp. p. 1342; Gaz. vol. 161; p. 215.
Markwith, Daniel A., San Francisco, Cal. Detachable saw-handle. No. 961,246; June 14; Sp. p. 2039; Gaz. vol. 155; p. 368.
Marley, Green R. (See Dunklin and Marley.)
Marley, Samuel S., Wilmington, Del. Exerciser. No. 967,403; Aug. 16; Sp. p. 3368; Gaz. vol. 157; p. 580.
Marold, John, Madison, Ill. Car-roof. No. 959,366; May 24; Sp. p. 6368; Gaz. vol. 154; p. 1065.
Maroney, Thomas, Sanborn, Iowa. Pool-table pocket. No. 953,853; Apr. 5; Sp. p. 346; Gaz. vol. 153; p. 61.
Marousek, Joseph F., Chicago, Ill. Indicator. No. 960,658; June 7; Sp. p. 855; Gaz. vol. 155; p. 141.
Marquardt, Ernst. (See Erlwein and Marquardt.)
Marquardt, Otto A., Detroit, Mich. Water-heater. No. 951,444; Mar. 8; Sp. p. 1996; Gaz. vol. 152; p. 347.
Marquis, William S., Auburn, Me. Window-screen. No. 946,577; Jan. 18; Sp. p. 3505; Gaz. vol. 150; p. 590.
Marr, Alexander, Westerly, R. I. Attachment for pipes. No. 954,316; Apr. 5; Sp. p. 1322; Gaz. vol. 153; p. 219.
Marr, Lewis K. (See Conway and Bisbing, assignors.)
Marrder, Charles A., New York, N. Y. Carbureter. No. 977,813; Dec. 6; Sp. p. 857; Gaz. vol. 161; p. 135.
Marriott, Hal, Newark, Ohio. Combined match-box and cigar-cutter. No. 945,792; Jan. 11; Sp. p. 1741; Gaz. vol. 150; p. 292.
Marriott, Hal, Newark, Ohio. Combined match-box and cigar-cutter. No. 979,318; Dec. 20; Sp. p. 4122; Gaz. vol. 161; p. 710.
Marriott, Robert H., Brooklyn, assignor to The United Wireless Telegraph Company, New York, N. Y. Antenna. No. 972,004; Oct. 4; Sp. p. 1090; Gaz. vol. 159; p. 183.
Marriott, Robert H., Brooklyn, N. Y., assignor to United Wireless Telegraph Company. Electrical tuning device. No. 978,604; Dec. 13; Sp. p. 2585; Gaz. vol. 161; p. 441.
Marriott, Robert H., Brooklyn, N. Y., assignor to United Wireless Telegraph Company. Electrical tuning device. No. 978,605; Dec. 13; Sp. p. 2592; Gaz. vol. 161; p. 441.
Marriott, Robert H., Brooklyn, N. Y., assignor to United Wireless Telegraph Company. Electrical tuning device. No. 978,606; Dec. 13; Sp. p. 2595; Gaz. vol. 161; p. 442.
Marriott, Robert H., Brooklyn, N. Y., assignor to United Wireless Telegraph Company. Protection apparatus for dynamo-electric machines. No. 978,607; Dec. 13; Sp. p. 2598; Gaz. vol. 161; p. 442.
Marron, Peter, Butte, Mont. Smoke-condensing and gas or fume absorber. No. 952,992; Mar. 22; Sp. p. 5165; Gaz. vol. 152; p. 927.
Marrs, Elmer C., Detroit, Mich. Cut-off valve. No. 974,899; Nov. 8; Sp. p. 1852; Gaz. vol. 160; p. 308.
Marschuetz, Oscar H., and W. G. Probst, Louisville, Ky., assignors to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Means for attaching feet to tubs, &c. No. 975,881; Nov. 15; Sp. p. 3975; Gaz. vol. 160; p. 670.
Marsden, Mark W., Philadelphia, Pa. System for cooling and dispensing beverages. No. 968,378; Aug. 23; Sp. p. 5411; Gaz. vol. 157; p. 934.
Marsden, Mark W., Philadelphia, Pa. Pottery product. No. 968,379; Aug. 23; Sp. p. 5413; Gaz. vol. 157; p. 934.
Marsden, Mark W., and E. Dahn, assignors to The United Beverage Improvement Company, Philadelphia, Pa. Beer-rod. No. 950,295; Feb. 22; Sp. p. 5334; Gaz. vol. 151; p. 935.
Marseille, Léon, Paris, and P. Gouin, Levallois-Perret, France. Electric accumulator. No. 960,567; June 7; Sp. p. 674; Gaz. vol. 155; p. 111.
Marseille, Léon, Paris, and P. Gouin, Levallois-Perret, France. Electric accumulator. No. 966,033; Aug. 2; Sp. p. 411; Gaz. vol. 157; p. 66.
Marseilles Manufacturing Company. (See Adams, Alonzo T., assignor.)
Marsh, Albert L., assignor to Hoskins Manufacturing Company, Detroit, Mich. Thermo-electric couple. No. 971,767; Oct. 4; Sp. p. 538; Gaz. vol. 159; p. 94.
Marsh, Charles E. and W. C., St. Louis, Mo. Screen. No. 956,391; Apr. 26; Sp. p. 5859; Gaz. vol. 153; p. 1019.
Marsh, Charles S. (See Bowers, George W., assignor.)
Marsh, Charles S. (See Chappel, James M., assignor.)
Marsh, George T. (See Shoenberg and Marsh.)
Marsh, Hugh M., Chicago, Ill. Broom. No. 970,843; Sept. 20; Sp. p. 3661; Gaz. vol. 158; p. 625.
Marsh, John C., Redfield, S. D. Fly-screen. No. 956,495; Apr. 26; Sp. p. 6099; Gaz. vol. 153; p. 1055.
Marsh, John H., London, England. Sash-fastener. No. 973,285; Oct. 18; Sp. p. 3911; Gaz. vol. 159; p. 669.
Marsh, John H., Oshkosh, assignor of one-half to G. H. Le Fevre, Omro, Wis. Press. No. 953,173; Mar. 29; Sp. p. 5581; Gaz. vol. 152; p. 1016.
Marsh, John W., Canon City, Colo. Floor-jack. No. 950,673; Mar. 1; Sp. p. 448; Gaz. vol. 152; p. 73.
Marsh, Lawrence E. (See Marsh, Lester E. and L. E.)
Marsh, Lester E. and L. E., Black Lick, Pa. Churn. No. 972,556; Oct. 11; Sp. p. 2265; Gaz. vol. 159; p. 391.
Marsh, Orvil J., and W. F. Heiss, Alliance, Ohio. Showcase. No. 962,777; June 28; Sp. p. 5361; Gaz. vol. 155; p. 937.
Marsh, Pelatiah J., *et al.* (See Frear, Otto E., assignor.)
Marsh, Robert T. (See Huntley, John W., assignor.)
Marsh, Vernon A., Endicott, Wash. Spring-tire. No. 976,667; Nov. 22; Sp. p. 5698; Gaz. vol. 160; p. 964.

Alphabetical list of patentees—Continued.

Marsh, Walter C. (See Marsh, Charles E. and W. C.)
Marsh, Wilbur M. (See Hackett, Charles H., assignor.)
Marsh, Wilbur W. (See Hackett and Morgan, assignors.)
Marsh, William C., Dunkirk, N. Y. Friction brake and clutch. No. 947,683; Jan. 25; Sp. p. 5450; Gaz. vol. 150; p. 990.
Marsh, William C., Dunkirk, N. Y. Car-brake. No. 950,336; Feb. 22; Sp. p. 5411; Gaz. vol. 151; p. 949.
Marshak, Jacob, New Haven, Conn. Locking device. No. 967,802; Aug. 16; Sp. p. 4162; Gaz. vol. 157; p. 713.
Marshall, Albert L., New Orleans, La. Cane-crusher. No. 978,767; Dec. 13; Sp. p. 2919; Gaz. vol. 161; p. 494.
Marshall, Charles H., assignor to George D. Kirtland, Syracuse, N. Y. Combination eraser and pencil-sharpener. No. 967,946; Aug. 23; Sp. p. 4460; Gaz. vol. 157; p. 784.
Marshall, Charles L., executor. (See Stamm and Weichel.)
Marshall, Charles P., Centralia, Ill. Paper-holder. No. 960,363; June 7; Sp. p. 259; Gaz. vol. 155; p. 44.
Marshall, David A. (See Case and Marshall.)
Marshall, Edmund, Indianapolis, Ind. Window. No. 978,768; Dec. 13; Sp. p. 2921; Gaz. vol. 161; p. 494.
Marshall Electric Company. (See Marshall, Norman, assignor.)
Marshall Electric Company. (See Peterson, Johann G., assignor.)
Marshall Field & Company. (See Broekema, John, assignor.)
Marshall, George H., Roanoke Rapids, N. C. Apparatus for producing cellulose from fibrous materials. No. 968,864; Aug. 30; Sp. p. 6458; Gaz. vol. 157; p. 1125.
Marshall, George H., Roanoke Rapids, N. C. Reducing fiber-yielding materials. No. 971,457; Sept. 27; Sp. p. 4873; Gaz. vol. 158; p. 854.
Marshall, Herbert E., New York, assignor to H. W. Aylward, Brooklyn, N. Y. Clutch. No. 945,565; Jan. 4; Sp. p. 1204; Gaz. vol. 150; p. 186.
Marshall, Herbert E., New York, assignor to H. W. Aylward, Brooklyn, N. Y. Bottle-capping machine. No. 964,925; July 19; Sp. p. 4198; Gaz. vol. 156; p. 700.
Marshall, Herbert E., and J. Schlagel, New York, assignors to H. W. Aylward, Brooklyn, N. Y. Bottle-capping head. No. 964,926; July 19; Sp. p. 4201; Gaz. vol. 156; p. 701.
Marshall, Homer F., North Adams, assignor to Berkshire Machine Company, Pittsfield, Mass. Machine for cleaning kid gloves. No. 947,924; Feb. 1; Sp. p. 300; Gaz. vol. 151; p. 50.
Marshall, Homer F., North Adams, and W. F. Clark, assignors to Berkshire Machine Company, Pittsfield, Mass. Scouring-machine. No. 957,074; May 3; Sp. p. 1238, Gaz. vol. 154; p. 196.
Marshall, Howard T., Brockton, Mass. Printed publication. No. 951,482; Mar. 8; Sp. p. 2085; Gaz. vol. 152; p. 361.
Marshall, James F. (See Dorn, Christian, assignor.)
Marshall, James T., Leeds, England. Valve-gear for fluid-pressure engines. No. 962,374; June 21; Sp. p. 4472; Gaz. vol. 155; p. 771.
Marshall, John, Sibley, Iowa. Grain-saving device. No. 956,591; May 3; Sp. p. 183; Gaz. vol. 154; p. 31.
Marshall, John J., Leeds, England. Dry measurer. No. 975,701; Nov. 15; Sp. p. 3607; Gaz. vol. 160; p. 608.
Marshall, John P. (See Ludington, Marshall, and Besson.)
Marshall, John P., assignor of one-half to F. H. Ludington, St. Louis, Mo. Drying-machine. No. 956,122; Apr. 26; Sp. p. 5277; Gaz. vol. 153; p. 927.
Marshall, John T. (See Evans and Marshall.)
Marshall, John T., *et al.* (See Ivers, John W., assignor.)
Marshall, Joseph H. (See Smith, William H., assignor.)
Marshall, Marrilla. (See Boutwell and Marshall.)
Marshall, Norman, Newton, Mass. Cement-supplying apparatus. No. 954,753; Apr. 12; Sp. p. 2297; Gaz. vol. 153; p. 398.
Marshall, Norman, West Newton, Mass., assignor to The Arrow Electric Company, Hartford, Conn. Push-button-switch receptacle. No. 945,969; Jan. 11; Sp. p. 2145; Gaz. vol. 150; p. 357.
Marshall, Norman, West Newton, Mass., assignor to The Arrow Electric Company, Hartford, Conn. Electric snap-switch. No. 946,680; Jan. 18; Sp. p. 3732; Gaz. vol. 150; p. 623.
Marshall, Norman, West Newton, Mass., assignor to The Arrow Electric Company, Hartford, Conn. Terminal for push-button electric switches. No. 954,448; Apr. 12; Sp. p. 1586; Gaz. vol. 153; p. 291.
Marshall, Norman, Newton, Mass., assignor, by mesne assignments, to Arrow Electric Company, Hartford, Conn. Outlet-box. No. 955,820; Apr. 19; Sp. p. 4588; Gaz. vol. 153; p. 792.
Marshall, Norman, Newton, Mass., assignor, by mesne assignments, to Arrow Electric Company, Hartford, Conn. Incandescent-lamp socket. No. 965,206; July 26; Sp. p. 4761; Gaz. vol. 156; p. 823.
Marshall, Norman, Newton, Mass., assignor, by mesne assignments, to Arrow Electric Company, Hartford, Conn. Outlet-box. No. 967,404; Aug. 16; Sp. p. 3369; Gaz. vol. 157; p. 581.
Marshall, Norman, Newton, Mass., assignor to Marshall Electric Company, Portland, Me. Electric receptacle. No. 954,642; Apr. 12; Sp. p. 2033; Gaz. vol. 153; p. 358.
Marshall, Norman, Newton, Mass., assignor to General Electric Company. Cementing-machine. No. 963,234; July 5; Sp. p. 522; Gaz. vol. 156; p. 74.
Marshall, Russell A., Somerset, Pa. Apparatus for producing butter. No. 979,524; Dec. 27; Sp. p. 4540; Gaz. vol. 161; p. 801.
Marshall, Stephen M., Clinton, Mass. Hose-reel. No. 975,147; Nov. 8; Sp. p. 2420; Gaz. vol. 160; p. 393.
Marshall, Thomas B., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Machine for clarifying and filtering liquids and fluid substances. No. 955,889; Apr. 26; Sp. p. 4778; Gaz. vol. 153; p. 846.
Marshall, Thomas B., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Centrifugal clarifier and filter. No. 955,890; Apr. 26; Sp. p. 4780; Gaz. vol. 153; p. 846.
Marshall, Victor F., Appleton, Wis. Anesthesia-mask. No. 955,821; Apr. 19; Sp. p. 4590; Gaz. vol. 153; p. 793.
Marshall, William R., Oldham, and T. Hargreaves, Ashton-under-Lyne, assignors to Victory Smoke Consumer and Fuel Economiser Company Limited, Oldham, England. Smoke-consuming apparatus. No. 966,109; Aug. 2; Sp. p. 562; Gaz. vol. 157; p. 91.
Marshburn, Nicholas E., Lagrange, Ga. Fruit-basket. No. 976,668; Nov. 22; Sp. p. 5700; Gaz. vol. 160; p. 964.
Marsilii, Luigi, West Chester, Pa. Harrow. No. 953,278; Mar. 29; Sp. p. 5808; Gaz. vol. 152; p. 1050.
Marston, Thomas O., Claflin, Kans. Elevator-hood for harvester-headers. No. 962,232; June 21; Sp. p. 4171; Gaz. vol. 155; p. 724.
Marta, Frank, *et al.* (See Stragiotti, Pietro, assignor.)
Martel, Achille, Fall River, Mass. Ash-sifter. No. 961,148; June 14; Sp. p. 1829; Gaz. vol. 155; p. 332.
Martel, Adelard F., assignor to American Patent Development Company, San Francisco, Cal. Mail-box. No. 954,037; Apr. 5; Sp. p. 714; Gaz. vol. 153; p. 125.
Martel, Gustave J., Chicago, Ill. Tire-patching device. No. 979,525; Dec. 27; Sp. p. 4544; Gaz. vol. 161; p. 802.
Martell, Herbert C., Flint, Mich. Vehicle-top. No. 960,979; June 7; Sp. p. 1481; Gaz. vol. 155; p. 249.
Martell, John, *et al.* (See Bowen, William M., assignor.)
Marten, Albert S., East Orange, N. J., assignor to The Tea Tray Company of Newark, N. J. Horn-crane. No. 972,886; Oct. 18; Sp. p. 3018; Gaz. vol. 159; p. 532.
Marten, Henry F., assignor to F. J. Koster, San Francisco, Cal. Heating apparatus for barrels. No. 946,246; Jan. 11; Sp. p. 2723; Gaz. vol. 150; p. 452.
Marten, Henry F., and H. Grahn, San Francisco, Cal. Barrel-sanding apparatus. No. 973,059; Oct. 18; Sp. p. 3419; Gaz. vol. 159; p. 592.
Martens, Louis H., Chicago, Ill. Briquet-mold. No. 948,335; Feb. 8; Sp. p. 1151; Gaz. vol. 151; p. 212.
Marth, Orlando P., assignor of one-half to I. D. Sessions, Dorr, Mich. Halter-tie. No. 951,691; Mar. 8; Sp. p. 2481; Gaz. vol. 152; p. 431.
Martha, Léon A., Paris, France. Internal-combustion engine. No. 970,251; Sept. 13; Sp. p. 2387; Gaz. vol. 158; p. 402.
Martin, Abraham G., assignor of one-fourth to J. F. Hickman, Bruceton, Pa. Nut-lock and screw-socket for well-drilling machines. No. 957,429; May 10; Sp. p. 2012; Gaz. vol. 154; p. 348.
Martin, Arthur W., Gorton, Manchester, England. Ventilating device for use in connection with windows. No. 955,178; Apr. 19; Sp. p. 3193; Gaz. vol. 153; p. 573.
Martin, Brady, assignor to F. E. Jordan, Lansing, Mich. Sink-frame. No. 959,437; May 24; Sp. p. 6489; Gaz. vol. 154; p. 1087.
Martin, Charles B., Portland, Oreg. Egg-boiler. No. 963,607; July 5; Sp. p. 1296; Gaz. vol. 156; p. 199.
Martin, Clare W., Post Falls, Idaho. Automatic match-box. No. 969,384; Sept. 6; Sp. p. 501; Gaz. vol. 158; p. 80.
Martin, Columbus M., *et al.* (See Clemmer, Martin L., assignor.)
Martin, Conley S., Danville, Ill. Timer. No. 947,736; Jan. 25; Sp. p. 6045; Gaz. vol. 150; p. 1008.
Martin, Daniel W., Lufkin, Tex. Vehicle. No. 954,317; Apr. 5; Sp. p. 1323; Gaz. vol. 153; p. 219.
Martin, David H., Jr., Harrisburg, Pa. Means for fastening rails and preventing the spreading thereof. No. 976,816; Nov. 22; Sp. p. 5998; Gaz. vol. 160; p. 1013.
Martin, David L., *et al.* (See Freeman, Vernon C., assignor.)
Martin, David R., Opelika, Ala. Mine-ventilating system. No. 963,787; July 12; Sp. p. 1686; Gaz. vol. 156; p. 282.
Martin, Edward A. (See Leveen and Martin.)
Martin, Elisha E. A., assignor of one-half to H. A. Beck, Union City, Tenn. Grain-door for cars. No. 973,060; Oct. 18; Sp. p. 3421; Gaz. vol. 159; p. 592.
Martin, Ernest H., Johannesburg, Transvaal. Milling apparatus. No. 976,585; Nov. 22; Sp. p. 5538; Gaz. vol. 160; p. 936.
Martin, Eva M. (See Gilbert and Martin.)
Martin, Flora A. M. (See Martin, Thomas E., assignor.)
Martin, Frank, assignor to Wright Wire Company, Worcester, Mass. Fence. No. 969,175; Sept. 6; Sp. p. 66; Gaz. vol. 158; p. 12.

Alphabetical list of patentees—Continued.

Martin, Frank B., Battle Creek, Mich. Bottom-flap-sealing machine for pasteboard cartons. No. 956,392; Apr. 26; Sp. p. 5861; Gaz. vol. 153; p. 1019.
Martin, Frank D., Chester, Vt. Reversible whetstone. No. 951,956; Mar. 15; Sp. p. 3044; Gaz. vol. 152; p. 550.
Martin, Frederick, Sr., Sherrill, N. Y. Closure-remover. No. 952,827; Mar. 22; Sp. p. 4852; Gaz. vol. 152; p. 873.
Martin, Frederick R., and O. M. Shepherd, London, England. Motor-car. No. 952,457; Mar. 22; Sp. p. 4026; Gaz. vol. 152; p. 745.
Martin, Frederick R., and O. M. Shepherd, London, England. Magnetic clutch. No. 959,569; May 31; Sp. p. 6811; Gaz. vol. 154; p. 1159.
Martin, George B., Marietta, Ohio. Propeller. No. 975,972; Nov. 15; Sp. p. 4149; Gaz. vol. 160; p. 701.
Martin, George F. (See Douglas, Robert B., assignor.)
Martin, George H., Oklahoma, Okla. Railway-tie. No. 954,000; Apr. 5; Sp. p. 631; Gaz. vol. 153; p. 112.
Martin, George L. (See Nixon, James R., assignor.)
Martin, George R. (See Hanly and Martin.)
Martin, George R., and G. A. Hanly, Chicago, Ill. Door-check. No. 966,458; Aug. 9; Sp. p. 1296; Gaz. vol. 157; p. 232.
Martin, Harold, Mount Vernon, N. Y. Necktie. No. 945,970; Jan. 11; Sp. p. 2146; Gaz. vol. 150; p. 357.
Martin, Harry S., assignor to United States Radiator Company, Dunkirk, N. Y. Boiler. No. 963,915; July 12; Sp. p. 1978; Gaz. vol. 156; p. 325.
Martin, Henri, Paris, France. Machine for applying to fabrics ornaments interwoven with a brass wire. No. 959,242; May 24; Sp. p. 6128; Gaz. vol. 154; p. 1023.
Martin, Henry C., Elkhart, Ind. Locking device for trombones. No. 977,026; Nov. 29; Sp. p. 6521; Gaz. vol. 160; p. 1113.
Martin, Henry I., Franklin, N. H. Adjustable runner for baby-carriages. No. 967,405; Aug. 16; Sp. p. 3371; Gaz. vol. 157; p. 581.
Martin, Herbert J. (See Pellett, Ernest, assignor.)
Martin, Herbert J., Abbotsford, Eastbourne, England. Window, door, and the like. No. 977,461; Dec. 6; Sp. p. 69; Gaz. vol. 161; p. 14.
Martin, James. (See William, Thomas J., assignor.)
Martin, James F., Philadelphia, Pa., assignor, by mesne assignments, to Magic Curler Company. Hair curler and waver. No. 961,725; June 14; Sp. p. 3052; Gaz. vol. 155; p. 529.
Martin, James W., assignor to R. C. Stewart, Covington, Ky. Self-closing gate. No. 964,801; July 19; Sp. p. 3950; Gaz. vol. 156; p. 656.
Martin, James Y., Arlington, Tex. Washer for wagon-bolsters. No. 952,748; Mar. 22; Sp. p. 4675; Gaz. vol. 152; p. 846.
Martin, John, Chicago, Ill., assignor to John Martin and Company, Augusta, Me. Advertising device. No. 967,406; Aug. 16; Sp. p. 3372; Gaz. vol. 157; p. 581.
Martin, John A., Centerville, Iowa. Violin. No. 958,146; May 17; Sp. p. 3703; Gaz. vol. 154; p. 625.
Martin, John B., Hahnville, La. Type-writer. No. 974,164; Nov. 1; Sp. p. 114; Gaz. vol. 160; p. 22.
Martin, John B., and E. W. Katzer, Wallace, Idaho. Railway-tie. No. 962,908; June 28; Sp. p. 5610; Gaz. vol. 155; p. 982.
Martin, John H., McKinney, Tex. Disk plow. No. 955,179; Apr. 19; Sp. p. 3194; Gaz. vol. 153; p. 573.
Martin, John M., Frisco, Tex. Cotton-chopping machine. No. 959,774; May 31; Sp. p. 7223; Gaz. vol. 154; p. 1226.
Martin, John R., Clarksville, Tenn. Boiler-check-valve clean-out. No. 948,702; Feb. 8; Sp. p. 1957; Gaz. vol. 151; p. 336.
Martin, John S., New Holland, Pa. Attachment for garment-supporters. No. 951,617; Mar. 8; Sp. p. 2342; Gaz. vol. 152; p. 406.
Martin, John W., *et al.* (See Freeman, Vernon C., assignor.)
Martin, Johns B., and W. B. Millner, Reidsville, N. C. Measurer. No. 961,628; June 14; Sp. p. 2871; Gaz. vol. 155; p. 496.
Martin, Joseph E., Kansas City, Mo. Globe-holder. No. 977,892; Dec. 6; Sp. p. 1026; Gaz. vol. 161; p. 163.
Martin, Joseph W., Abilene, Tex. Cotton-chopper. No. 951,405; Mar. 8; Sp. p. 1932; Gaz. vol. 152; p. 335.
Martin, Julian G., Drybranch, Ga. Belt-tightener. No. 969,968; Sept. 13; Sp. p. 1790; Gaz. vol. 158; p. 304.
Martin, Kenneth B., Fair Grove, Mo. Poultry-fountain. No. 948,928; Feb. 8; Sp. p. 2407; Gaz. vol. 151; p. 410.
Martin, Louis A., Stevens Point, Wis. Elevated carrier. No. 972,557; Oct. 11; Sp. p. 2267; Gaz. vol. 159; p. 391.
Martin, Louis L., assignor to The Worth-Martin Co., Toronto, Ontario, Canada. Coin-controlled vending apparatus. No. 951,018; Mar. 1; Sp. p. 1139; Gaz. vol. 152; p. 185.
Martin, Margaret A., assignor of one-fourth to E. Wappler, Chicago, Ill. Indicator for vehicles. No. 979,526; Dec. 27; Sp. p. 4547; Gaz. vol. 161; p. 802.
Martin, Max. (See Dahl and Martin.)
Martin, Robert W., Buhl, Minn. Ventilator. No. 972,005; Oct. 4; Sp. p. 1093; Gaz. vol. 159; p. 183.
Martin, Samuel O., Denver, Colo. Non-refillable bottle. No. 951,957; Mar. 15; Sp. p. 3045; Gaz. vol. 152; p. 551.
Martin, Simon H., Webster Park, Mo. Attachment for automobiles. No. 971,768; Oct. 4; Sp. p. 539; Gaz. vol. 159; p. 94.
Martin, Stephen G., Chicago, Ill., assignor of one-third to W. O. Bartholomew, St. Louis, and one-third to E. Schaaf, St. Marys, Mo. Extracting iron from its ores. No. 975,625; Nov. 15; Sp. p. 3441; Gaz. vol. 160; p. 584.
Martin, Thomas A., assignor, by mesne assignments, to Sears, Roebuck and Co., Chicago, Ill. Internal-combustion engine. No. 968,380; Aug. 23; Sp. p. 5413; Gaz. vol. 157; p. 934.
Martin, Thomas E., assignor to F. A. M. Martin, Buffalo, N. Y. Truss. No. 958,267; May 17; Sp. p. 3948; Gaz. vol. 154; p. 665.
Martin, Truman J., New York, N. Y. Copy-holder. No. 980,111; Dec. 27; Sp. p. 5843; Gaz. vol. 161; p. 999.
Martin, William, Jeannette, Pa. Continuous window-glass-drawing machine. No. 969,385; Sept. 6; Sp. p. 502; Gaz. vol. 158; p. 80.
Martin, William E., Stamford, England. Side-delivery rake, swath-turner, &c. No. 954,534; Apr. 12; Sp. p. 1791; Gaz. vol. 153; p. 322.
Martin, William E., Stamford, England. Potato-digger. No. 978,179; Dec. 13; Sp. p. 1665; Gaz. vol. 161; p. 292.
Martin, William H., Bisbee, Ariz. Child's seat for bicycles. No. 975,973; Nov. 15; Sp. p. 4150; Gaz. vol. 160; p. 702.
Martin, William L., *et al.* (See Mayhew, John, assignor.)
Martin, William R., West Hempfield township, Lancaster county, Pa. Brick-drying apparatus. No. 956,123; Apr. 26; Sp. p. 5279; Gaz. vol. 153; p. 927.
Martinek, Johann, Viersen, Germany. Thread-cutting device for automatic weft-replenishing looms. No. 972,118; Oct. 4; Sp. p. 1301; Gaz. vol. 159; p. 220.
Martinez, Benjamin T., Petaca, N. Mex. Rail-joint. No. 969,713; Sept. 6; Sp. p. 1178; Gaz. vol. 158; p. 191.
Martini, Carl, Berlin, Germany. Storing inflammable solutions. No. 962,036; June 21; Sp. p. 3738; Gaz. vol. 155; p. 656.
Martini, Otto A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 948,145; Feb. 1; Sp. p. 754; Gaz. vol. 151; p. 123.
Martini, Rudolph, St. Louis, Mo. Device for receiving and collecting mail. No. 975,552; Nov. 15; Sp. p. 3294; Gaz. vol. 160; p. 559.
Martinson, Fred, Bingham Canyon, Utah. Folding chair. No. 960,659; June 7; Sp. p. 859; Gaz. vol. 155; p. 142.
Martinson, Oscar J., assignor to Monighan Machine Company, Chicago, Ill. Excavator-bucket. No. 954,318; Apr. 5; Sp. p. 1328; Gaz. vol. 153; p. 219.
Martinson, Oscar J., assignor to Monighan Machine Company, Chicago, Ill. Excavator-bucket. No. 976,088; Nov. 15; Sp. p. 4367; Gaz. vol. 160; p. 742.
Martinson, Oscar J., assignor to Monighan Machine Company, Chicago, Ill. Excavator-bucket. No. 976,742; Nov. 22; Sp. p. 5832; Gaz. vol. 160; p. 988.
Martley, Walter, Lebanon, Mo. Rerailing-frog. No. 957,230; May 10; Sp. p. 1585; Gaz. vol. 154; p. 280.
Martling, Clarence E., and C. Dunn, New York, N. Y. Fountain-pen. No. 950,939; Mar. 1; Sp. p. 1001; Gaz. vol. 152; p. 160.
Martyn, Peter B. and W., Airdrie, Lanarkshire, Scotland. Apparatus for the manufacture of metal grit. No. 952,828; Mar. 22; Sp. p. 4853; Gaz. vol. 152; p. 873.
Martyn, William. (See Martyn, Peter B. and W.)
Martz, Firm of Albert. (See Schnorr, Georg A., assignor.)
Martz, George J., Chicago, Ill. Fountain-pen. No. 960,660; June 7; Sp. p. 861; Gaz. vol. 155; p. 142.
Martz, Lowell O. (See Weems, Joney E., assignor.)
Martz, Randolph N., Frederick, Md. Vehicle-brake. No. 963,608; July 5; Sp. p. 1299; Gaz. vol. 156; p. 200.
Marugg, Paul E., Denver, Colo. Churn. No. 945,402; Jan. 4; Sp. p. 860; Gaz. vol. 150; p. 134.
Marvel, John. (See Knowles, Marvel, and Heselden.)
Marvel Manufacturing Company. (See McCann, William B., assignor.)
Marvil, Joshua D., Laurel, Del. Car-fender. No. 954,754; Apr. 12; Sp. p. 2299; Gaz. vol. 153; p. 398.
Marville, George S., Riegelsville, Pa., assignor to Augusta Knitting Company, Utica, N. Y. Splicing-feed device for knitting-machines. No. 947,925; Feb. 1; Sp. p. 301; Gaz. vol. 151; p. 50.
Marville, George S., Riegelsville, Pa., assignor to Augusta Knitting Company, Utica, N. Y. Undergarment. No. 957,893; May 17; Sp. p. 2958; Gaz. vol. 154; p. 535.
Marvin, Arthur, El Paso, Ill. Truck. No. 973,797; Oct. 25; Sp. p. 5000; Gaz. vol. 159; p. 869.
Marvin, Arthur, assignor to Marvin Manfg. Company, El Paso, Ill. Truck. No. 964,039; July 12; Sp. p. 2230; Gaz. vol. 156; p. 367.
Marvin, Henry S., assignor to Ingle Manufacturing Company, San Diego, Cal. Range. No. 948,943; Feb. 8; Sp. p. 2439; Gaz. vol. 151; p. 415.
Marvin Manfg. Company. (See Marvin, Arthur, assignor.)
Marx, Amelia, *et al.* (See Scott, William H., assignor.)
Marx, Arthur M., Frankfort-on-the-Main, Germany. Device for boarding leather. No. 962,157; June 21; Sp. p. 4032; Gaz. vol. 155; p. 699.

Alphabetical list of patentees—Continued.

Marx, Arthur M., Frankfort-on-the-Main, Germany. Machine for dressing, stretching, and otherwise treating skins, hides, leather, and the like. No. 978,318; Dec. 13; Sp. p. 1954; Gaz. vol. 161; p. 341.

Marx, Charles O., assignor of one-half to B. Spitzfaden, Brooklyn, N. Y. Door-hanger. No. 974,089; Oct. 25; Sp. p. 5599; Gaz. vol. 159; p. 970.

Marx, Jennie, and E. Maier, New York, N. Y. Combined corset-cover and bust-supporter. No. 957,617; May 10; Sp. p. 2374; Gaz. vol. 154; p. 412.

Maryns, Charles, and R. Verlinde, Philadelphia, Pa. Burling-comb. No. 946,247; Jan. 11; Sp. p. 2724; Gaz. vol. 150; p. 453.

Mascall, Arthur E. (See Holmstrom and Mascall.)

Maschinenfabrik Augsburg-Nürnberg A. G. (See Knorr, Leonhard, assignor.)

Maschinenfabrik Moenus A. G. (See Heldmann, Peter, assignor.)

Maschinenfabrik Sürth G. m. b. H. (See Behrens, Ernst A., assignor.)

Maschmeier, Henry B. (See Halliwell and Maschmeier.)

Maschmeyer, Hermann, assignor to Usini de Desargentation Société Anonyme, Hoboken, near Antwerp, Belgium. Treating impure copper matte and ores. No. 957,231; May 10; Sp. p. 1587; Gaz. vol. 154; p. 280.

Mascia, Saverio A., New York, N. Y. Vegetable-washer. No. 974,165; Nov. 1; Sp. p. 116; Gaz. vol. 160; p. 23.

Mascord, George W., London, England. Motor-vehicle. No. 963,609; July 5; Sp. p. 1301; Gaz. vol. 156; p. 200.

Masek, John F., New York, N. Y. Net. No. 957,618; May 10; Sp. p. 2375; Gaz. vol. 154; p. 412.

Masker, James, Hammond, Ind. Car-roof. No. 950,487; Mar. 1; Sp. p. 48; Gaz. vol. 152; p. 10.

Maslin, John, Jersey City, assignor to G. F. Whitney, South Orange, N. J. Device for cleaning pipe-lines. No. 945,971; Jan. 11; Sp. p. 2148; Gaz. vol. 150; p. 357.

Mason, Albert, assignor of two-sixths to P. Puller, two-sixths to R. Eggleston, and one-sixth to T. M. Mason, Pittsburg, Pa. Snow-cleaning machine. No. 954,118; Apr. 5; Sp. p. 877; Gaz. vol. 153; p. 152.

Mason, Benjamin F., assignor of one-fifth to W. L. Bishop, Hot Springs, Ark. Cotton-chopper. No. 976,817; Nov. 22; Sp. p. 6000; Gaz. vol. 160; p. 1014.

Mason, Carl T., Sumter, S. C. Electric-battery holder. No. 952,268; Mar. 15; Sp. p. 3638; Gaz. vol. 152; p. 653.

Mason, Carl T., assignor of one-half to G. C. Warren, Sumter, S. C. Battery-holder. No. 954,119; Apr. 5; Sp. p. 879; Gaz. vol. 153; p. 152.

Mason, Charles H. (See Abrams and Mason.)

Mason, Charles H., Niles, Ohio. Ventilator. No. 949,632; Feb. 15; Sp. p. 3861; Gaz. vol. 151; p. 673.

Mason, Charles O., Attleboro Falls, Mass. Paper box. No. 963,452; July 5; Sp. p. 982; Gaz. vol. 156; p. 148.

Mason, Charles O., Attleboro Falls, Mass. Paper receptacle or box. No. 979,871; Dec. 27; Sp. p. 5323; Gaz. vol. 161; p. 920.

Mason, Charles T., assignor to The Sumter Telephone Mfg. Co., Sumter, S. C. Desk-telephone standard. No. 959,243; May 24; Sp. p. 6131; Gaz. vol. 154; p. 1024.

Mason, Edward J., Philadelphia, Pa. Fruit-picker's bag. No. 949,024; Feb. 15; Sp. p. 2639; Gaz. vol. 151; p. 470.

Mason, Edward R., New York, N. Y., assignor to Electric Service Supplies Company, Philadelphia, Pa. Gear-casing. No. 954,038; Apr. 5; Sp. p. 715; Gaz. vol. 153; p. 125.

Mason, Francis C., Grand Rapids, Mich. Ignition-timer for internal-combustion engines. No. 966,034; Aug. 2; Sp. p. 412; Gaz. vol. 157; p. 66.

Mason, Francis C., assignor of one-half to L. M. Shanahan, Grand Rapids, Mich. Ignition-timer for internal-combustion engines. No. 971,545; Oct. 4; Sp. p. 77; Gaz. vol. 159; p. 15.

Mason, Frank N., Pittsburg, Pa. Piston-rod packing. No. 971,292; Sept. 27; Sp. p. 4569; Gaz. vol. 158; p. 800.

Mason, Frédéric S., New York, N. Y. Allyl sulfocarbamid bismuth tri-iodid. No. 976,669; Nov. 22; Sp. p. 5702; Gaz. vol. 160; p. 964.

Mason, George C., Portland, Oreg. Sanitary base for partitions. No. 949,589; Feb. 15; Sp. p. 3783; Gaz. vol. 151; p. 658.

Mason, George L. (See Witherell, Seward, and Mason.)

Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Lock-stop protector. No. 961,979; June 21; Sp. p. 3617; Gaz. vol. 155; p. 637.

Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Lock. No. 970,252; Sept. 13; Sp. p. 2389; Gaz. vol. 158; p. 402.

Mason, Howard L., Buffalo, N. Y., assignor to Mason Safety Rail Joint Lock Company. Rail-joint lock. No. 954,120; Apr. 5; Sp. p. 880; Gaz. vol. 153; p. 153.

Mason, James. (See Rodreick, David, assignor.)

Mason, Jarvis W. (See Svenvig, Nikolai, assignor.)

Mason, Jennie, Pittsburg, Pa. Toy. No. 947,043; Jan. 18; Sp. p. 4532; Gaz. vol. 150; p. 747.

Mason, John F., Taunton, Mass. Blowpipe. No. 950,235; Feb. 22; Sp. p. 5223; Gaz. vol. 151; p. 916.

Mason, Robert, assignor to Kidder Press Company, Dover, N. H. Blank-forming machine. No. 965,919; Aug. 2; Sp. p. 151; Gaz. vol. 157; p. 26.

Mason, Robert J., assignor of one-half to J. Kovacsy, Hammond, Ind. Boring-bar. No. 955,180; Apr. 19; Sp. p. 3195; Gaz. vol. 153; p. 574.

Mason Safety Rail Joint Lock Company. (See Mason, Howard L., assignor.)

Mason, Samuel G., Moseley, near Birmingham, England. Ball-bearing joint. No. 946,061; Jan. 11; Sp. p. 2324; Gaz. vol. 150; p. 387.

Mason, Sumner H., Worcester, Mass. Registering-indicator for barber-shops. No. 960,661; June 7; Sp. p. 862; Gaz. vol. 155; p. 142.

Mason, Theron O. (See Spikes, Richard B., assignor.)

Mason, Thomas, Jacksonville, Ill. Reel. No. 953,479; Mar. 29; Sp. p. 6243; Gaz. vol. 152; p. 1119.

Mason, Thornton M., *et al.* (See Mason, Albert, assignor.)

Mason, William K. (See Burnett, John W., assignor.)

Mason, William L., Tekamah, Nebr. Ice-cream-cone protector. No. 965,920; Aug. 2; Sp. p. 153; Gaz. vol. 157; p. 26.

Massa, Lawrence, Coalinga, Cal. Coupling for rotary drills. No. 949,300; Feb. 15; Sp. p. 3185; Gaz. vol. 151; p. 561.

Massey, Benjamin F., Charlotte, N. C. Extension car-step. No. 953,538; Mar. 29; Sp. p. 6376; Gaz. vol. 152; p. 1141.

Massey, Charles F., Chicago, Ill. Battery-well. No. 951,192; Mar. 8; Sp. p. 1469; Gaz. vol. 152; p. 266.

Massey, Harry A., East St. Louis, Ill., assignor of one-half to G. H. Stein, St. Louis, Mo. Rotary engine. No. 977,027; Nov. 29; Sp. p. 6523; Gaz. vol. 160; p. 1113.

Massie, Alcinous, Nashville, assignor of one-half to M. J. Wolf, Loudonville, Ohio. Churn. No. 959,367; May 24; Sp. p. 6370; Gaz. vol. 154; p. 1065.

Massie Generator and Radiator Co., The. (See Massie, John G., assignor.)

Massie, John G., East St. Louis, Ill. Safety-stirrup. No. 949,830; Feb. 22; Sp. p. 4289; Gaz. vol. 151; p. 773.

Massie, John G., assignor to The Massie Generator and Radiator Co., East St. Louis, Ill. Generator and superheater. No. 978,769; Dec. 13; Sp. p. 2922; Gaz. vol. 161; p. 494.

Massman, Peter, assignor of one-half to I. J. Kuert, San Diego, Cal. Roller-bearing. No. 953,789; Apr. 5; Sp. p. 212; Gaz. vol. 153; p. 39.

Massohn, Johannes, Hamburg, Germany. Airship of the rigid type. No. 979,979; Dec. 27; Sp. p. 5532; Gaz. vol. 161; p. 955.

Masson, Andrew, Putney, England, and W. M. Wallace, Denny, Scotland. Beating-engine used in the manufacture of paper. No. 957,894; May 17; Sp. p. 2959; Gaz. vol. 154; p. 535.

Masson, John R., Melbourne, Victoria, Australia. Recovering antimony from ores and the like. No. 975,148; Nov. 8; Sp. p. 2421; Gaz. vol. 160; p. 393.

Mast, Joseph, Fort Riley Kans. Sanitary garbage-tank. No. 958,414; May 17; Sp. p. 4394; Gaz. vol. 154; p. 718.

Mast, Louis L., West Milton, Ohio. Electric-cable lightning-rod. No. 965,207; July 26; Sp. p. 4764; Gaz. vol. 156; p. 823.

Masters, David H., assignor of one-half to A. L. Clark, Cliff, N. Mex. Running-gear for vehicles. No. 957,075; May 3; Sp. p. 1240; Gaz. vol. 154; p. 196.

Masters, James L., Littles, Ind. Axle-lubricator. No. 972,006; Oct. 4; Sp. p. 1094; Gaz. vol. 159; p. 183.

Masters, John F., Durham, N. C. Flooring. No. 947,114; Jan. 18; Sp. p. 4661; Gaz. vol. 150; p. 769.

Masterson, Bernard W., Laredo, Tex. Water-wheel. No. 952,919; Mar. 22; Sp. p. 5025; Gaz. vol. 152; p. 903.

Masterson, Patrick, Cobalt, Ontario, Canada. Pipe and nut wrench. No. 974,408; Nov. 1; Sp. p. 738; Gaz. vol. 160; p. 112.

Mastin, James G., Chicago, Ill. Nozzle. No. 949,489; Feb. 15; Sp. p. 3586; Gaz. vol. 151; p. 625.

Mastin, James G., Chicago, Ill. Spraying-machine. No. 961,456; June 14; Sp. p. 2499; Gaz. vol. 155; p. 440.

Mastrud, Casper O., Foley, Minn. Feed-box. No. 978,915; Dec. 20; Sp. p. 3204; Gaz. vol. 161; p. 569.

Masurel, Georges, Roubaix, France. Drying-machine for sized warps. No. 959,570; May 31; Sp. p. 6814; Gaz. vol. 154; p. 1160.

Matchett, Harry, Pittsburg, Pa. Box-closure. No. 970,844; Sept. 20; Sp. p. 3662; Gaz. vol. 158; p. 626.

Matchette, Frank J., Milwaukee, Wis. Dust-collector. No. 971,390; Sept. 27; Sp. p. 4760; Gaz. vol. 158; p. 832.

Matchette, Frank J., Milwaukee, Wis. Pneumatic cleaner. No. 978,916; Dec. 20; Sp. p. 3206; Gaz. vol. 161; p. 569.

Matchette, Frank J., and C. Moukos, Milwaukee, Wis.; said Moukos assignor to said Matchette. Coupling-valve for pneumatic cleaning-tools. No. 974,409; Nov. 1; Sp. p. 739; Gaz. vol. 160; p. 112.

Matchette, Frank J., C. Gordon, and C. Moukos, assignors to American Air Cleaning Company, Milwaukee, Wis. Pneumatic cleaning apparatus. No. 973,446; Oct. 18; Sp. p. 4253; Gaz. vol. 159; p. 725.

Matchette, Frank J., R. Raddatz, and C. Moukos, Milwaukee, Wis.; said Raddatz and Moukos assignors to said Matchette. Vacuum cleaning apparatus. No. 974,286; Nov. 1; Sp. p. 468; Gaz. vol. 160; p. 69.

Mateer, William H., *et al.* (See Anderson, Harry T., assignor.)
Matějka, Frank, Rogers, Tex. Railway-tie. No. 956,537; May 3; Sp. p. 59; Gaz. vol. 154; p. 13.
Matheny, James G., Terre Haute, Ind. Grease-cup. No. 959,023; May 24; Sp. p. 5658; Gaz. vol. 154; p. 951.
Matheny, Thurston. (See Hastings and Matheny.)
Mather, Alonzo C., Chicago, Ill. Railway signaling system. No. 978,180; Dec. 13; Sp. p. 1666; Gaz. vol. 161; p. 292.
Mather, Samuel W., Cleveland, Ohio. Funeral-car. No. 951,193; Mar. 8; Sp. p. 1471; Gaz. vol. 152; p. 266.
Mather, Thomas A., Greensburg, Pa. Milk-can lock. No. 975,882; Nov. 15; Sp. p. 3976; Gaz. vol. 160; p. 670.
Mather, Thomas T., Egg Harbor City, N. J. Insulating-tube. No. 951,505; Mar. 8; Sp. p. 2125; Gaz. vol. 152; p. 368.
Mather, William H., Laramie, Wyo. Combined derrick and traction-engine. No. 974,410; Nov. 1; Sp. p. 741; Gaz. vol. 160; p. 113.
Mathern, Alphonse, Berlin, Germany. Smoothing apparatus for the manufacture of pneumatic tires. No. 973,061; Oct. 18; Sp. p. 3422; Gaz. vol. 159; p. 593.
Mathes, Philip, assignor to Peck, Stow & Wilcox Company, Cleveland, Ohio. Latch. No. 976,197; Nov. 22; Sp. p. 4650; Gaz. vol. 160; p. 800.
Mathes, Wesley R., Spokane, Wash. Step-ladder. No. 951,406; Mar. 8; Sp. p. 1934; Gaz. vol. 152; p. 335.
Matheson, Alexander E., Goderich, Ontario, Canada. Extension-table. No. 970,634; Sept. 20; Sp. p. 3209; Gaz. vol. 158; p. 552.
Matheson, Avery A., New York, N. Y. Window-ventilator. No. 977,413; Nov. 29; Sp. p. 7371; Gaz vol. 160; p. 1246.
Matheson, Charles A., assignor to G. B. Farmer, Perth, Ontario, Canada. Drying apparatus for peat and the like. No. 957,232; May 10; Sp. p. 1588; Gaz. vol. 154; p. 280.
Matheson, Millard L., Virginia, Minn. Fly-screen. No. 969,644; Sept. 6; Sp. p. 1048; Gaz. vol. 158; p. 168.
Matheson, Richard T., assignor to W. E. Wolff, New York, N. Y. Coat-collar. No. 962,403; June 21; Sp. p. 4529; Gaz. vol. 155; p. 781.
Matheson, William B., and I. D. Brodek, Los Angeles, Cal. Automatic mechanical cut-off for electrical heating appliances. No. 952,681; Mar. 22; Sp. p. 4530; Gaz. vol. 152; p. 823.
Matheus, Louis S., and C. Leindecker, Lawrenceburg, Ind. Compressed-air apparatus for elevating liquids. No. 976,818; Nov. 22; Sp. p. 6001; Gaz. vol. 160; p. 1014.
Mathews, Charles O., Milford, assignor of one-half to The White Manufacturing Company, Bridgeport, Conn. Electric connections for carriage-lamps. No. 978,608; Dec. 13; Sp. p. 2600; Gaz. vol. 161; p. 442.
Mathews, Fredrick C., assignor to Mathews, Kaye, Mann & Co., Detroit, Mich. Folder. No. 977,814; Dec. 6; Sp. p. 861; Gaz. vol. 161; p. 135.
Mathews Gravity Carrier Co. (See Mathews, Rufus P., assignor.)
Mathews, Kaye, Mann & Co. (See Mathews, Fredrick C., assignor.)
Mathews, Rufus P., assignor to Mathews Gravity Carrier Co., St. Paul, Minn. Gravity-carrier. No. 978,466; Dec. 13; Sp. p. 2263; Gaz. vol. 161; p. 392.
Mathewson, James H., Atlanta, Ga. Bottle-vending machine. No. 951,323; Mar. 8; Sp. p. 1757; Gaz. vol. 152; p. 309.
Mathias, John. (See Liesner, Frank J. B., assignor.)
Mathieson, Thomas T. (See Bebbington, John, assignor.)
Mathis, August, assignor to Mathis Brothers Company, Chicago, Ill. Fan-blower. No. 952,993; Mar. 22; Sp. p. 5167; Gaz. vol. 152; p. 928.
Mathis Brothers Company. (See Mathis, August, assignor.)
Mathis, Frank X., Jr. (See Goodchild, Joshua, assignor.)
Mathis, John, Glassport, Pa. Funnel. No. 977,414; Nov. 29; Sp. p. 7372; Gaz. vol. 160; p. 1246.
Mathis, John H. (See Robinson, William W., assignor.)
Matney, Sollie. (See Hanson and Matney.)
Matson, Andrew, Los Angeles, Cal. Gas-engine having automatic exhaust-openings therein. No. 977,667; Dec. 6; Sp. p. 558; Gaz. vol. 161; p. 85.
Matson, Andrew E., Eureka, Cal. Tobacco-pipe. No. 973,870; Oct. 25; Sp. p. 5153; Gaz. vol. 159; p. 895.
Matson, Charles E. (See Henkel, George R., assignor.)
Matson, Emanuel E., assignor of one-half to C. Jackson, Bigelow, Mo. Adjustable oar-lock. No. 958,704; May 17; Sp. p. 4954; Gaz. vol. 154; p. 814.
Matt Stewart Company, The. (See Stewart, Matthew A., assignor.)
Matter, Albert J., Portland, Oreg. Stationary-washbowl cabinet. No. 954,121; Apr. 5; Sp. p. 881; Gaz. vol. 153; p. 153.
Matter, Albert J., assignor of one-half to J. Gaston, Portland, Oreg. Fireplace-furnace. No. 976,819; Nov. 22; Sp. p. 6005; Gaz. vol. 160; p. 1015.
Matter, Julius, Laaken, near Barmen, Germany. Concentrating apparatus. No. 976,893; Nov. 29; Sp. p. 6191; Gaz. vol. 160; p. 1066.
Mattern, August, Baltimore, Md. Egg-beater. No. 964,291; July 12; Sp. p. 2747; Gaz. vol. 156; p. 453.
Matters, Edward R., Neosho, Mo., assignor to American Optical Company. Eyeglass-chain attachment. No. 970,853; Sept. 20; Sp. p. 3683; Gaz. vol. 158; p. 629.
Mattes, Balthasar J. (See Hulkenberg and Mattes.)
Matteson, Rufus S., Providence, assignor to Easton & Burnham Machine Company, Pawtucket, R. I. Doffer-guard for spinning-machines. No. 948,650; Feb. 8; Sp. p. 1846; Gaz. vol. 151; p. 318.
Matteson, Rufus S., Providence, assignor to Easton & Burnham Machine Company, Pawtucket, R. I. Doffer-guard for spinning and twisting machines. No. 953,387; Mar. 29; Sp. p. 6055; Gaz. vol. 152; p. 1087.
Matteson, Rufus S., Providence, assignor to Easton & Burnham Machine Company, Pawtucket, R. I. Movement-adjusting device for traverse-motion mechanism for winding-machines. No. 953,388; Mar. 29; Sp. p. 6057; Gaz. vol. 152; p. 1088.
Matteson, Rufus S., Providence, assignor to Easton and Burnham Machine Company, Pawtucket, R. I. Bobbin-holder. No. 955,088; Apr. 12; Sp. p. 3008; Gaz. vol. 153; p. 510.
Matthaus, Valentine, Helena, Mont. Hair-filler. No. 966,110; Aug. 2; Sp. p. 564; Gaz. vol. 157; p. 91.
Matthes, Frank, Milwaukee, Wis. Knockdown table. No. 964,996; July 19; Sp. p. 4338; Gaz. vol. 156; p. 723.
Matthes, Samuel S., Mansfield, Ohio. Hinge. No. 970,635; Sept. 20; Sp. p. 3211; Gaz. vol. 158; p. 552.
Matheus, Karl, Chicago, Ill. Tube cutter and reamer. No. 963,610; July 5; Sp. p. 1302; Gaz. vol. 156; p. 200.
Matthews, Charles, Pittsburg, Pa., assignor of two-thirds to H. M. Baker, Fremont, Ohio. Door for mines, quarries, elevator-shafts, &c. No. 963,611; July 5; Sp. p. 1305; Gaz. vol. 156; p. 201.
Matthews, Edgar M., assignor of one-half to W. E. Rothermel, Chicago, Ill. Door-operating means. No. 952,829; Mar. 22; Sp. p. 4856; Gaz. vol. 152; p. 874.
Matthews, Edgar M., assignor of one-half to W. E. Rothermel, Chicago, Ill. Window-sash. No. 962,647; June 28; Sp. p. 5089; Gaz. vol. 155; p. 890.
Matthews, Edgar M., assignor of one-half to W. E. Rothermel, Chicago, Ill. Window-sash. No. 977,415; Nov. 29; Sp. p. 7374; Gaz. vol. 160; p. 1246.
Matthews, Edward. (See Abbs and Matthews.)
Matthews, Francis I., Oakland, Cal. Roller grinding-mill. No. 952,269; Mar. 15; Sp. p. 3640; Gaz. vol. 152; p. 654.
Matthews, Frederick W., New York, N. Y. Duplicating phonograms. No. 951,483; Mar. 8; Sp. p. 2088; Gaz. vol. 152; p. 361.
Matthews, George N. (See Kelley, Matthews, and Davis.)
Matthews, George W., Chicago, Ill. Game apparatus. No. 970,070; Sept. 13; Sp. p. 2008; Gaz. vol. 158; p. 341.
Matthews, Harry G., Gloucester, England. Means for effecting telephonic communication without connecting-wires. No. 977,462; Dec. 6; Sp. p. 72; Gaz. vol. 161; p. 14.
Matthews, Jennie C., Dallas, Tex. Child's plate or dish. No. 949,025; Feb. 15; Sp. p. 2640; Gaz. vol. 151; p. 470.
Matthews, John G., Three Rivers, Mich. Reamer. No. 945,566; Jan. 4; Sp. p. 1207; Gaz. vol. 150; p. 187.
Matthews, John G., Oberlin, Ohio. Expanding reamer. No. 946,384; Jan. 11; Sp. p. 3111; Gaz. vol. 150; p. 500.
Matthews, John G., Oberlin, Ohio. Manufacturing boring or milling cutters. No. 949,377; Feb. 15; Sp. p. 3363; Gaz. vol. 151; p. 588.
Matthews, John H., Hedgerley Rectory, Gerrards Cross, England. Portable apparatus for use in playing clock-golf. No. 951,649; Mar. 8; Sp. p. 2403; Gaz. vol. 152; p. 416.
Matthews, John L., San Diego, Cal. Surf compressor apparatus. No. 965,208; July 26; Sp. p. 4765; Gaz. vol. 156; p. 824.
Matthews, Joseph W., Brady, Tex. Gate. No. 948,788; Feb. 8; Sp. p. 2143; Gaz. vol. 151; p. 365.
Matthews, Lee C., San Francisco, Cal. Windmill. No. 961,705; June 14; Sp. p. 3015; Gaz. vol. 155; p. 522.
Matthews Manufacturing Co. (See Morton, Fred S., assignor.)
Matthews, Stephen C., St. John, New Brunswick, Canada. Device for melting and applying sealing-wax. No. 962,375; June 21; Sp. p. 4476; Gaz. vol. 155; p. 772.
Matthews, Thomas, Brooklyn, N. Y. Buoy. No. 977,959; Dec. 6; Sp. p. 1170; Gaz. vol. 161; p. 187.
Matthews, Walter S., Gulfport, Miss. Paper box and fastener. No. 961,784; June 21; Sp. p. 3188; Gaz. vol. 155; p. 572.
Matthews, William R., assignor to The McConway & Torley Company, Pittsburg, Pa. Draft-gear for railway-cars. No. 950,488; Mar. 1; Sp. p. 51; Gaz. vol. 152; p. 10.
Matthews, William R., assignor to The McConway & Torley Company, Pittsburg, Pa. Draft-gear for railway-cars. No. 950,489; Mar. 1; Sp. p. 53; Gaz. vol. 152; p. 11.
Matthews, William R., Aspinwall, assignor to The McConway & Torley Company, Pittsburg, Pa. Draft appliance for railway-cars. No. 950,490; Mar. 1; Sp. p. 58; Gaz. vol. 152; p. 11.
Matthewson, James E., Sheboygan, Wis. Plant-support. No. 966,936; Aug. 9; Sp. p. 2387; Gaz. vol. 157; p. 391.
Matthey, Charles U., Bromley, Ky. Chisel-protector. No. 978,387; Dec. 13; Sp. p. 2105; Gaz. vol. 161; p. 366.

Alphabetical list of patentees—Continued.

Matthias, Karl, Dessau, Germany. Friction-clutch. No. 958,147; May 17; Sp. p. 3704; Gaz. vol. 154; p. 626.
Matthias, William C., Reading, Pa. Fire-alarm. No. 971,684; Oct. 4; Sp. p. 363; Gaz. vol. 159; p. 64.
Matthiessen, Conrad S., assignor of one-fourth to C. J. Hepburn and W. F. Sprenkel, Philadelphia, Pa. Cotton-picker. No. 979,184; Dec. 20; Sp. p. 3847; Gaz. vol. 161; p. 665.
Matti, Oswald, Renens, Switzerland. Reinforced-concrete slab. No. 968,865; Aug. 30; Sp. p. 6460; Gaz. vol. 157; p. 1125.
Mattick, August, assignor to Nürnberger Kunstgummifabrik Gustav Kopp, Nuremberg, Germany. Roller-covercasting machine. No. 968,175; Aug. 23; Sp. p. 5002; Gaz. vol. 157; p. 862.
Mattinger, Henry, Los Angeles, Cal. Drafting instrument. No. 979,872; Dec. 27; Sp. p. 5324; Gaz. vol. 161; p. 921.
Mattison, Hans S., assignor to Vote Berger Company, La Crosse, Wis. Transmitter. No. 967,217; Aug. 16; Sp. p. 2974; Gaz. vol. 157; p. 515.
Mattman, Emil, Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Field-magnet for dynamo-electric machines. No. 949,082; Feb. 15; Sp. p. 2746; Gaz. vol. 151; p. 488.
Mattman, Emil, Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 969,790; Sept. 13; Sp. p. 1388; Gaz. vol. 158; p. 243.
Mattoon, Edward, Superior, Wis. Card-holder for voting-machines. No. 946,062; Jan. 11; Sp. p. 2326; Gaz. vol. 150; p. 387.
Mattson, Frank A., Cumberland, Wis. Road-grader. No. 946,063; Jan. 11; Sp. p. 2327; Gaz. vol. 150; p. 387.
Mattson, Harry I., Kansas City, Kans. Twine-cutter. No. 948,898; Feb. 8; Sp. p. 2361; Gaz. vol. 151; p. 401.
Matz, Charles C., Philadelphia, Pa. Ice-creeper. No. 947,414; Jan. 25; Sp. p. 5368; Gaz. vol. 150; p. 900.
Matzenik, Josef. (See Kostanjevic, Matzenik, and Gessi.)
Matzner, Louis J., Stickney, S. D. Cutting-off tool. No. 955,466; Apr. 19; Sp. p. 3818; Gaz. vol. 153; p. 671.
Mau, Louis. (See Schoenmeier and Mau.)
Mau, Louis, Philadelphia, Pa. Adjustable ball-bearing. No. 951,194; Mar. 8; Sp. p. 1472; Gaz. vol. 152; p. 267.
Mauborgne, Francis J., New York, N. Y. Cotton opening and ginning machine. No. 969,176; Sept. 6; Sp. p. 67; Gaz. vol. 158; p. 12.
Mauch, John L., Salt Lake City, Utah. Fluid-jet float. No. 979,681; Dec. 27; Sp. p. 4884; Gaz. vol. 161; p. 856.
Mauck, Victor, and J. E. Wentling, Conshohocken, Pa. Molding-machine. No. 972,771; Oct. 11; Sp. p. 2732; Gaz. vol. 159; p. 465.
Maud, Charles E., Monterey, Cal. Two-cycle internal-combustion engine. No. 980,110; Dec. 27; Sp. p. 5840; Gaz. vol. 161; p. 999.
Mauderer, Henry. (See Hirschwitz and Mauderer.)
Mauger, Mathew, Chillicothe, and C. Schraw, Leesburg, Ohio. Corn-planter. No. 971,293; Sept. 27; Sp. p. 4571; Gaz. vol. 158; p. 800.
Maul, August G., assignor to The Anthracoke Company, New York, N. Y. Treating fuel. No. 949,326; Feb. 15; Sp. p. 3237; Gaz. vol. 151; p. 570.
Maul, Christian, assignor to The Johnston Harvester Company, Batavia, N. Y. Vertical-lift mower. No. 952,125; Mar. 15; Sp. p. 3364; Gaz. vol. 152; p. 605.
Mauldin, Blake I. (See Davidson and Mauldin.)
Maule, John Q., Terrell, Tex. Boiler compound. No. 976,894; Nov. 29; Sp. p. 6192; Gaz. vol. 160; p. 1066.
Maull, Edward N., Palatka, Fla. Washboard. No. 946,552; Jan. 18; Sp. p. 3465; Gaz. vol. 150; p. 583.
Maull, James L. (See Carter and Maull.)
Maull, William E. (See Yourtee and Maull.)
Maunders, Charles, Minot, N. D. Track-brace. No. 974,411; Nov. 1; Sp. p. 745; Gaz. vol. 160; p. 113.
Maupin, Frank L., Port, Tex. Window-weight. No. 972,887; Oct. 18; Sp. p. 3020; Gaz. vol. 159; p. 532.
Maupin, Graves R., and J. W. Faessler, Moberly, Mo. Reverse-lever. No. 967,947; Aug. 23; Sp. p. 4461; Gaz. vol. 157; p. 785.
Maurer, John. (See Boerngen, Max E., assignor.)
Maurice C. Clark Company. (See Clark, Maurice C., assignor.)
Mauro, Philip, *et al.*, trustees. (See Mann, William B., assignor.)
Maus, Daniel, Worcester, Mass. Machine for cutting trimmings. No. 963,453; July 5; Sp. p. 982; Gaz. vol. 156; p. 148.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Recoil-loader with fixed barrel. No. 971,061; Sept. 27; Sp. p. 4093; Gaz. vol. 158; p. 725.
Mauss, Wilhelm, Johannesburg, Transvaal. Automatic percussive apparatus. No. 955,976; Apr. 26; Sp. p. 4959; Gaz. vol. 153; p. 877.
Mauss, Wilhelm, Brakpan, Transvaal. Self-feeding percussive apparatus. No. 965,828; July 26; Sp. p. 6122; Gaz. vol. 156; p. 1038.
Mauss, Wilhelm, Brakpan, Transvaal. Fluid-propelled direct-acting engine. No. 968,381; Aug. 23; Sp. p. 5415; Gaz. vol. 157; p. 935.
Mautner, Stephan, Vienna, Austria-Hungary. Extensible table. No. 970,071; Sept. 13; Sp. p. 2009; Gaz. vol. 158; p. 341.
Mawdsley, Eliza, Alton, Ill. Sash lift and lock. No. 970,526; Sept. 20; Sp. p. 2954; Gaz. vol. 158; p. 515.
Max Ams Machine Co. (See Hahnemann, Paul R., assignor.)
Max, Roman, Warsaw, Russia. Air-heating chamber for stoves, furnaces, and other heating apparatus. No. 974,581; Nov. 1; Sp. p. 1160; Gaz. vol. 160; p. 176.
Maxfield, Charles E., assignor of two-fifths to E. F. Hammond, Cleveland, Ohio. Nipple and clamp for pipes. No. 961,247; June 14; Sp. p. 2040; Gaz. vol. 155; p. 368.
Maxfield, Daniel E., Dorchester, assignor to B. F. Sturtevant Company, Boston, Mass. Flexible coupling. No. 953,700; Apr. 5; Sp. p. 39; Gaz. vol. 153; p. 10.
Maxfield, Fred E. (See Ware, Charles I., assignor.)
Maxfield, Leroy H., Godfrey, assignor to Illinois Stoker Company, Alton, Ill. Chain-grate furnace. No. 946,762; Jan. 18; Sp. p. 3910; Gaz. vol. 150; p. 652.
Maxim, Hiram P., Hartford, Conn. Tire-inflater for automobiles. No. 956,592; May 3; Sp. p. 184; Gaz. vol. 154; p. 32.
Maxim, Hiram P., Hartford, Conn., assignor to Maxim Silent Firearms Company, New York, N. Y. Silent firearm. No. 958,934; May 24; Sp. p. 5492; Gaz. vol. 154; p. 921.
Maxim, Hiram P., Hartford, Conn., assignor to Maxim Silent Firearms Company, New York, N. Y. Silent firearm. No. 958,935; May 24; Sp. p. 5495; Gaz. vol. 154; p. 922.
Maxim, Hudson, New York, N. Y. Machine for perforating and forming cellular powder-grains. No. 946,943; Jan. 18; Sp. p. 4341; Gaz. vol. 150; p. 714.
Maxim, Hudson, New York, N. Y. Torpedo-boat. No. 946,944; Jan. 18; Sp. p. 4343; Gaz. vol. 150; p. 714.
Maxim, Hudson, New York, N. Y. Explosive compound. No. 951,445; Mar. 8; Sp. p. 1998; Gaz. vol. 152; p. 348.
Maxim, Hudson, New York, N. Y. Apparatus for producing motive power. No. 974,166; Nov. 1; Sp. p. 117; Gaz. vol. 160; p. 23.
Maxim, Hudson, New York, N. Y. Explosive compound. No. 974,900; Nov. 8; Sp. p. 1853; Gaz. vol. 160; p. 308.
Maxim, Hudson, New York, N. Y. Combustion of oil and gas mixtures. No. 977,208; Nov. 29; Sp. p. 6925; Gaz. vol. 160; p. 1176.
Maxim, Hudson, Brooklyn, N. Y. Apparatus for producing a motor fluid. No. 956,813; May 3; Sp. p. 678; Gaz. vol. 154; p. 107.
Maxim Silent Firearms Company. (See Maxim, Hiram P., assignor.)
Maximilian, Max, Buffalo, N. Y. Pneumatic hammer. No. 952,707; Mar. 22; Sp. p. 4585; Gaz. vol. 152; p. 832.
Maxon, Daniel M., St. Louis, Mo. Automatic water regulator and surface blow-off. No. 969,294; Sept. 6; Sp. p. 300; Gaz. vol. 158; p. 49.
Maxson, Charles B., Westerly, R. I., assignor of one-half to W. C. Kraemer and P. W. Dietly, Erie, Pa. Sheet-delivery. No. 949,935; Feb. 22; Sp. p. 4541; Gaz. vol. 151; p. 811.
Maxwell, Arthur A. (See England, Arthur E., assignor.)
Maxwell, Bert C., Canton, Ohio. Attachment for telephone mouthpieces. No. 951,825; Mar. 15; Sp. p. 2766; Gaz. vol. 152; p. 506.
Maxwell, Bert C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding book or pad. No. 957,233; May 10; Sp. p. 1589; Gaz. vol. 154; p. 281.
Maxwell, Bert C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding-book. No. 959,775; May 31; Sp. p. 7225; Gaz. vol. 154; p. 1226.
Maxwell, Bert C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Mainfolding-book. No. 959,776; May 31; Sp. p. 7227; Gaz. vol. 154; p. 1227.
Maxwell, Bert C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding book or pad. No. 973,527; Oct. 25; Sp. p. 4439; Gaz. vol. 159; p. 775.
Maxwell, Bert C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding book or pad. No. 974,102; Oct. 25; Sp. p. 5622; Gaz. vol. 159; p. 975.
Maxwell, Edward, assignor of one-half to W. J. Wall, Montreal, Quebec, Canada. Humidifier. No. 957,430; May 10; Sp. p. 2014; Gaz. vol. 154; p. 348.
Maxwell, George S., Washington, D. C. Distance and speed indicator and recorder. No. 949,000; Feb. 15; Sp. p. 2568; Gaz. vol. 151; p. 462.
Maxwell, George W. (See Darrow, Ben O., assignor.)
Maxwell, Grover C. (See Maxwell and Buckman.)
Maxwell, Howard, Schenectady, N. Y., assignor to General Electric Company. End ring for induction-motors. No. 976,670; Nov. 22; Sp. p. 5703; Gaz. vol. 160; p. 964.
Maxwell, John C., Rensselaer, Ind. Cultivator. No. 972,204; Oct. 11; Sp. p. 1512; Gaz. vol. 159; p. 269.
Maxwell, Martin L., Goodwater, Mo. Drag-saw. No. 977,028; Nov. 29; Sp. p. 6524; Gaz. vol. 160; p. 1114.
Maxwell, Samuel R., St. Louis, and G. E. Hymer, Kansas City, Mo. Washing-machine. No. 955,181; Apr. 19; Sp. p. 3196; Gaz. vol. 153; p. 574.
Maxwell, Walter H., Cincinnati, Ohio. Pendent sprayer-support. No. 955,342; Apr. 19; Sp. p. 3558; Gaz. vol. 153; p. 629.
Maxwell, William B., G. C. Maxwell, and E. Buckman, New York, N. Y. Propeller. No. 977,815; Dec. 6; Sp. p. 862; Gaz. vol. 161; p. 135.

Maxwell, William P., Unity, Pa. Draft appliance for vehicles. No. 969,645; Sept. 6; Sp. p. 1050; Gaz. vol. 158; p. 169.
May, Albert M., Cleveland, Ohio. Bed. No. 949,655; Feb. 15; Sp. p. 3902; Gaz. vol. 151; p. 680.
May, Albert M., Lakewood, Ohio. Bed. No. 974,287; Nov. 1; Sp. p. 472; Gaz. vol. 160; p. 69.
May, Allen, Philadelphia, Pa. Smoke-conveying attachment for railway-trains. No. 959,777; May 31; Sp. p. 7230; Gaz. vol. 154; p. 1227.
May, Augustus, New Orleans, La. Drip-cup for refrigerators and ice-boxes. No. 960,103; May 31; Sp. p. 7977; Gaz. vol. 154; p. 1340.
May, Augustus, New Orleans, La. Automatic danger-signal and intermittently-illuminating advertiser for electric cars. No. 972,007; Oct. 4; Sp. p. 1095; Gaz. vol. 159; p. 184.
May, Caleb J. and P., and G. D. Shannon, Anacortes, Wash. Drag-saw. No. 964,669; July 19; Sp. p. 3571; Gaz. vol. 156; p. 611.
May, Ernst, Dusseldorf, Germany. Otacoustic. No. 951,195; Mar. 8; Sp. p. 1473; Gaz. vol. 152; p. 267.
May, George H., Newburgh, N. Y., and W. M. Grosvenor, Grantwood, N. J. Drying apparatus. No. 979,781; Dec. 27; Sp. p. 5107; Gaz. vol. 161; p. 889.
May, James J., Mineola, N. Y. Antislipping attachment for horseshoes. No. 975,553; Nov. 15; Sp. p. 3299; Gaz. vol. 160; p. 560.
May, Louis, San Francisco, Cal. Pencil-holder. No. 957,787; May 10; Sp. p. 2736; Gaz. vol. 154; p. 468.
May, Otto B., assignor to Morgenstern & Company, New York, N. Y. Oxygen-bath. No. 969,073; Aug. 30; Sp. p. 6880; Gaz. vol. 157; p. 1197.
May, Perry. (See May and Shannon.)
May, Robert B., assignor of one-half to R. M. Ware, Stockdale, Tex. Pindal or peanut planter. No. 972,205; Oct. 11; Sp. p. 1513; Gaz. vol. 159; p. 269.
May, Thomas H. D., Bath, England. Apparatus for measuring or apportioning materials of a granular or other suitable form. No. 958,965; May 24; Sp. p. 5548; Gaz. vol. 154; p. 932.
May, Thomas L., assignor of one-half to E. G. Gooderham, Toronto, Ontario, Canada. Vehicle-wheel. No. 977,463; Dec. 6; Sp. p. 74; Gaz. vol. 161; p. 15.
May, William F. (See Jeffers, Harry L., assignor.)
May, William J., New Orleans, La. Fisherman's needle. No. 954,319; Apr. 5; Sp. p. 1330; Gaz. vol. 153; p. 219.
Maybaum, Edward F., New York, N. Y. Vehicle-wheel. No. 953,916; Apr. 5; Sp. p. 460; Gaz. vol. 153; p. 84.
Mayer, Edward R., and J. G. Keegan, assignors of one-third to A. E. Wilson, Denver, Colo. Pilot-light for gas-stoves. No. 971,769; Oct. 4; Sp. p. 540; Gaz. vol. 159; p. 95.
Mayer, Ernest J., Undercliffe, Colo. Tool-head clamp. No. 951,324; Mar. 8; Sp. p. 1759; Gaz. vol. 152; p. 309.
Mayer, Frederick. (See Mayer, Henry, assignor.)
Mayer, Frederick L., Milwaukee, Wis. Vegetable-cutter. No. 971,546; Oct. 4; Sp. p. 79; Gaz. vol. 159; p. 15.
Mayer, George G., and R. Ashton, South Bethlehem, Pa. Mining starter-bit. No. 979,319; Dec. 20; Sp. p. 4125; Gaz. vol. 161; p. 710.
Mayer, Godfried J., assignor of five-twentieths to D. R. Clark and four-twentieths to H. Mayer, Buffalo, N. Y. Carbureter for explosive-engines. No. 967,407; Aug. 16; Sp. p. 3373; Gaz. vol. 157; p. 581.
Mayer, Henry, assignor of one-half to F. Mayer, St. Louis, Mo. Wheel. No. 952,012; Mar. 15; Sp. p. 3159; Gaz. vol. 152; p. 568.
Mayer, Herman, *et al.* (See Mayer, Godfried J., assignor.)
Mayer, Joseph A., Sr., Kenwood, Mo. Metal shipping-crate. No. 949,191; Feb. 15; Sp. p. 2963; Gaz. vol. 151; p. 525.
Mayer, Julian T., assignor to J. & C. Fischer, New York, N. Y. Pedal-lock for pianos. No. 945,850; Jan. 11; Sp. p. 1886; Gaz. vol. 150; p. 313.
Mayer, Max, Pankow, Germany, assignor to General Electric Company. Transformer. No. 974,167; Nov. 1; Sp. p. 120; Gaz. vol. 160; p. 23.
Mayer, Oswald R., and J. W. Schoettle, assignors to Mayer, Schoettle & Schairer Company, Ann Arbor, Mich. Loose-leaf binder. No. 973,528; Oct. 25; Sp. p. 4441; Gaz. vol. 159; p. 776.
Mayer, Richard, Cologne, Germany. Steam or hot-air apparatus. No. 945,241; Jan. 4; Sp. p. 490; Gaz. vol. 150; p. 80.
Mayer, Schoettle & Schairer Company. (See Mayer and Schoettle, assignors.)
Mayer, Walter S., assignor to The Machen & Mayer Electrical Manufacturing Company, Philadelphia, Pa. Four-way electric snap-switch. No. 948,564; Feb. 8; Sp. p. 1658; Gaz. vol. 151; p. 289.
Mayer, Walter S., assignor to The Machen & Mayer Electrical Manufacturing Company, Philadelphia, Pa. Electric switch. No. 971,623; Oct. 4; Sp. p. 245; Gaz. vol. 159; p. 43.
Mayfield, Jesse L., Brenham, Tex. Float-valve. No. 963,305; July 5; Sp. p. 689; Gaz. vol. 156; p. 98.
Mayhall, Charles R., Arroyo Grande, Cal. Apparatus for the propulsion of ships. No. 961,306; June 14; Sp. p. 2176; Gaz. vol. 155; p. 389.
Mayhew, John D., assignor of one-sixth to J. L. Booty, Tyler, one-sixth to P. G. Whaley, one-sixth to W. L. Martin, Marshall, Tex., and one-sixth to C. W. Dawley, McAlester, Okla. Compressor. No. 955,822; Apr. 19; Sp. p. 4592; Gaz. vol. 153; p. 793.
Mayhew, Percy G., Grand Rapids, Mich. Mattress-filler. No. 966,459; Aug. 9; Sp. p. 1297; Gaz. vol. 157; p. 232.
Mayhue, Leon. (See Bowers and Mayhue.)
Maynard, John F., assignor to The Draper & Maynard Company, Plymouth, N. H. Punching-bag mitt. No. 961,149; June 14; Sp. p. 1830; Gaz. vol. 155; p. 332.
Maynard, Richard F., New York, N. Y. Artist's sketch-box. No. 961,629; June 14; Sp. p. 2872; Gaz. vol. 155; p. 496.
Maynard, Theodore, and D. E. Lain, Bellingham, Wash. Fruit-jar cover. No. 972,206; Oct. 11; Sp. p. 1515; Gaz. vol. 159; p. 269.
Maynard, William C., Miami, Fla., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Embroidery-hoop. No. 946,452; Jan. 11; Sp. p. 3254; Gaz. vol. 150; p. 523.
Mayne, Harry, Camden, N. J. Sash-holder. No. 946,453; Jan. 11; Sp. p. 3255; Gaz. vol. 150; p. 524.
Maynes, Hyla F., Gaines, Pa. Clothes-line-extension device. No. 945,337; Jan. 4; Sp. p. 727; Gaz. vol. 150; p. 112.
Maynes, Hyla F., Gaines, Pa. Machine for applying labels. No. 971,133; Sept. 27; Sp. p. 4232; Gaz. vol. 158; p. 747.
Maynes, Hyla F., Gaines, Pa. Lantern. No. 973,529; Oct. 25; Sp. p. 4442; Gaz. vol. 159; p. 776.
Mayo, Benjamin F. (See Bayley and Mayo.)
Mayo, Benjamin F., Salem, Mass. Optical instrument. No. 973,062; Oct. 18; Sp. p. 3423; Gaz. vol. 159; p. 593.
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 960,980; June 7; Sp. p. 1482; Gaz. vol. 155; p. 249.
Mayo, Henry, deceased, Norfolk, Va.; H. T. Mayo, administratrix. Shipping-box for cans. No. 969,386; Sept. 6; Sp. p. 505; Gaz. vol. 158; p. 80.
Mayo, Hulda T., administratrix. (See Mayo, Henry.)
Mayo, Junius B., Dallas, Tex. Necktie-supporter. No. 973,871; Oct. 25; Sp. p. 5159; Gaz. vol. 159; p. 896.
Mayo, William C., assignor of one-third to Electric Gas Motor Car Company, one-third to G. E. Briggs, Barstow, and one-third to J. Houlehan, El Paso, Tex. Controlling system for motor traction-cars. No. 974,683; Nov. 1; Sp. p. 1366; Gaz. vol. 160; p. 213.
Mayoux, Barthelemy, and C. Verchère, Izieux, assignors to C. Corron, St. Chamond, France. Apparatus for charging dye-vats. No. 960,662; June 7; Sp. p. 864; Gaz. vol. 155; p. 142.
Mayr, Johann, Drössling, Post Seefeld, Germany. Double-sliding-sash window. No. 961,726; June 14; Sp. p. 3053; Gaz. vol. 155; p. 529.
Mays, Douglass H., Benoit, Miss. Cotton-harvester. No. 946,454; Jan. 11; Sp. p. 3256; Gaz. vol. 150; p. 524.
Mays, James M., Pittsburg, Pa. Adjustable shade-bracket. No. 972,888; Oct. 18; Sp. p. 3020; Gaz. vol. 159; p. 533.
Mays, P. C., *et al.* (See Shropshire, Jesse, assignor.)
Mays, Shelby J., Belleview, Tenn. Fruit-picker. No. 971,547; Oct. 4; Sp. p. 81; Gaz. vol. 159; p. 16.
Mays, Wilson P., Portland, Oreg. Hood for motor-vehicles. No. 959,571; May 31; Sp. p. 6815; Gaz. vol. 154; p. 1160.
McAdam, Samuel, Reynolds, Ill. Mold for cement watering-tanks. No. 967,030; Aug. 9; Sp. p. 2588; Gaz. vol. 157; p. 425.
McAdams, George F., New York, N. Y. Counting-off machine. No. 954,875; Apr. 12; Sp. p. 2591; Gaz. vol. 153; p. 441.
McAdams, Nathaniel J., Smyrna, Tenn. Gate. No. 970,090; Sept. 13; Sp. p. 2040; Gaz. vol. 158; p. 346.
McAdams, Sylvester L., Beaver Falls, Pa. Trolley-wheel. No. 967,031; Aug. 9; Sp. p. 2589; Gaz. vol. 157; p. 425.
McAdams, William J., Ruby, Tex. Grain-separator for attachment to threshing-machines. No. 956,719; May 3; Sp. p. 472; Gaz. vol. 154; p. 76.
McAdie, Alexander G., San Francisco, Cal. Plant-protector. No. 947,519; Jan. 25; Sp. p. 5628; Gaz. vol. 150; p. 935.
McAdie, Alexander G., San Francisco, Cal. Combination thermograph and hydrograph. No. 974,684; Nov. 1; Sp. p. 1374; Gaz. vol. 160; p. 213.
McAfee, Herbert W., Columbus, Ga. Disappearing door. No. 972,466; Oct. 11; Sp. p. 2046; Gaz. vol. 159; p. 359.
McAfee, James M., Minneapolis, Minn. Feed device for roller-mills. No. 949,400; Feb. 15; Sp. p. 3418; Gaz. vol. 151; p. 597.
McAlarney, Harry M., Puritan, Pa. Telephone-receiver holder. No. 974,506; Nov. 1; Sp. p. 988; Gaz. vol. 160; p. 147.
McAlear, James, St. Paul, Minn. Valve for sprinkler systems. No. 967,956; Aug. 23; Sp. p. 4479; Gaz. vol. 157; p. 788.
McAleer, Edward H., Philadelphia, Pa. Animal-trap. No. 956,138; Apr. 26; Sp. p. 5309; Gaz. vol. 153; p. 933.
McAllister, Amos H., Millersville, Pa. Box-closure. No. 966,699; Aug. 9; Sp. p. 1837; Gaz. vol. 157; p. 314.

Alphabetical list of patentees—Continued.

McAllister, John E. (See Ohmer and McAllister.)
McAllister, Lewis C., Colorado Springs, Colo. Destroyer of dandelions. No. 954,126; Apr. 5; Sp. p. 889; Gaz. vol. 153; p. 154.
McAllister, William A., St. Joseph, Mo. Loop-setting machine. No. 958,968; May 24; Sp. p. 5552; Gaz. vol. 154; p. 933.
McAloney, William H., Denver, assignor to The Automatic Signal Light Company, Colorado Springs, Colo. Means for illuminating car-steps. No. 961,887; June 21; Sp. p. 3433; Gaz. vol. 155; p. 607.
McAlpin, Frank G., Forreston, Ill. Apparatus for producing burnt-wood articles. No. 959,783; May 31; Sp. p. 7238; Gaz. vol. 154; p. 1229.
McAndrews, Bridget C., New Germany, Md. Book-cover protector. No. 949,128; Feb. 15; Sp. p. 2845; Gaz. vol. 151; p. 503.
McAneny, Michael, Denver, Colo., assignor, by mesne assignments, to McLaughlin Machine Company, St. Louis, Mo. Vending-machine. No. 976,089; Nov. 15; Sp. p. 4369; Gaz. vol. 160; p. 742.
McAneny, Michael J., *et al.* (See McAneny, William A., assignor.)
McAneny, William A., Denver, Colo., assignor of one-third to I. A. McLaughlin and one-third to M. J. McAneny, St. Louis, Mo. Cigar cutter and lighter. No. 970,533; Sept. 20; Sp. p. 2963; Gaz. vol. 158; p. 516.
McAnulty, John A., Baltimore, Md. Bottle-capping machine. No. 954,685; Apr. 12; Sp. p. 2123; Gaz. vol. 153; p. 372.
McArdle, William, assignor to The Perfect Simplex Combustion Company, Montreal, Quebec, Canada. Smoke-consumer. No. 978,467; Dec. 13; Sp. p. 2265; Gaz. vol. 161; p. 393.
McArthur, Arthur R., Elwood, Ind., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Apparatus for opening packs. No. 976,895; Nov. 29; Sp. p. 6193; Gaz. vol. 160; p. 1066.
McArthur, Charles D., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Mold. No. 971,391; Sept. 27; Sp. p. 4762; Gaz. vol. 158; p. 832.
McArthur, Charles D., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Tunnel-form. No. 979,185; Dec. 20; Sp. p. 3849; Gaz. vol. 161; p. 666.
McArthur, Herbert A., *et al.* (See Scribner, John H., assignor.)
McArthur, James, Rochester, N. Y. Hair ornamenting or holding device. No. 952,926; Mar. 22; Sp. p. 5043; Gaz. vol. 152; p. 906.
McArthur, William, Tenino, Wash. Gas-separator. No. 954,454; Apr. 12; Sp. p. 1608; Gaz. vol. 153; p. 294.
McArthur, William, Tenino, Wash. Gas-scrubber. No. 975,054; Nov. 8; Sp. p. 2219; Gaz. vol. 160; p. 361.
McAslan, Norman, Yorkshire, Iowa. Combination-tool. 964,532; July 19; Sp. p. 3266; Gaz. vol. 156; p. 563.
McBean, George B., assignor to Mechanical & Electrical Manufacturing Company, Chicago, Ill. Insulating-support. No. 947,185; Jan. 18; Sp. p. 4802; Gaz. vol. 150; p. 791.
McBee, Charles F., Athens, Ohio. Perforating and binding machine. No. 946,458; Jan. 11; Sp. p. 3278; Gaz. vol. 150; p. 526.
McBee, Charles F., Athens, Ohio. Bookbinder's perforating-machine. No. 949,195; Feb. 15; Sp. p. 2970; Gaz. vol. 151; p. 526.
McBee, Charles F., Athens, Ohio. Temporary bookbinding. No. 971,294; Sept. 27; Sp. p. 4573; Gaz. vol. 158; p. 801.
McBeth, Andrew F., Waitsburg, Wash. Carpet-stretcher. No. 965,118; July 19; Sp. p. 4576; Gaz. vol. 156; p. 763.
McBride, Charles S., Brooklyn, assignor of one-half to Gould-Mersereau Company and one-half to H. L. Judd Company, New York, N. Y. Curtain-pole carrier. No. 978,609; Dec. 13; Sp. p. 2601; Gaz. vol. 161; p. 443.
McBride, Dwight L., Pasadena, Cal. Pencil-sharpener. No. 949,085; Feb. 15; Sp. p. 2751; Gaz. vol. 151; p. 489.
McBride, Dwight L., and H. A. Fiske, Pasadena, Cal. Trolley-replacer. No. 966,847; Aug. 9; Sp. p. 2204; Gaz. vol. 157; p. 363.
McBride, Joseph H., Philadelphia, Pa. Coin-controlled apparatus. No. 973,364; Oct. 18; Sp. p. 4074; Gaz. vol. 159; p. 697.
McBride, William J., Philadelphia, Pa., assignor to Hoffman-Corr Manufacturing Company. Stand for hammocks, couches, and the like. No. 972,783; Oct. 11; Sp. p. 2755; Gaz. vol. 159; p. 468.
McBurney, Robert O., Penalosa, Kans. Stacker. No. 966,580; Aug. 9; Sp. p. 1608; Gaz. vol. 157; p. 274.
McCabe, Anthony J. (See Hoff and McCabe.)
McCabe, Edward A. (See Rigby, Clark F., assignor.)
McCabe, Edward P. (See Miley, Annie C., assignor.)
McCabe, Henry J. (See Coates, William S., assignor.)
McCabe, Horace B., Chicago, Ill., assignor of one-half to W. L. Miller, Madison, Wis. Time-recording register. No. 946,858; Jan. 18; Sp. p. 4140; Gaz. vol. 150; p. 685.
McCabe, Mary, New York, N. Y. Attachment for sewing-machines. No. 954,756; Apr. 12; Sp. p. 2305; Gaz. vol. 153; p. 399.
McCabe, Patrick J., Madison Lake, Minn. Heating-tank for incubators. No. 973,681; Oct. 25; Sp. p. 4769; Gaz. vol. 159; p. 829.
McCabe, Philip J., Gary, Ind., assignor of one-half to J. P. Van Syckle, Galena, Ill. Joint for connecting pipe-sections. No. 973,804; Nov. 8; Sp. p. 1643; Gaz. vol. 160; p. 275.
McCaddam, Earl D., *et al.* (See Frederickson, Clayton E., assignor.)
McCague, James J., *et al.* (See Stawartz, John J., assignor.)
McCain, Cyrus A., and C. Henderson, Oak Park, Ill. Printing-plate-locking device. No. 964,174; July 12; Sp. p. 2507; Gaz. vol. 156; p. 412.
McCain, Edward J., assignor of one-half to W. S. Weatherspoon and J. Pardo, Sanford, N. C. Fence-wire clamp. No. 948,426; Feb. 8; Sp. p. 1365; Gaz. vol. 151; p. 243.
McCain, Edward J., assignor of one-half to W. S. Weatherspoon and J. Pardo, Sanford, N. C. Wire-stretcher. No. 951,963; Mar. 15; Sp. p. 3058; Gaz. vol. 152; p. 553.
McCain, Ellsworth L., Detroit, Mich. Tooth-brush. No. 967,413; Aug. 16; Sp. p. 3388; Gaz. vol. 157; p. 584.
McCain, John A., assignor of one-half to W. L. Florence, Powder Springs, Ga. Safety switch device. No. 956,139; Apr. 26; Sp. p. 5310; Gaz. vol. 153; p. 933.
McCain, William M. (See Dexter and McCain.)
McCall, Charnock H., Atlanta, Ga. Heating attachment for open grates. No. 971,063; Sept. 27; Sp. p. 4099; Gaz. vol. 158; p. 725.
McCall, Earl N., Goldfield, Nev. Trolley-head. No. 977,416; Nov. 29; Sp. p. 7376; Gaz. vol. 160; p. 1247.
McCall, Edwin R. (See Rich, Edwin J., assignor.)
McCall, John M., St. Louis, Mo. Toilet-comb. No. 966,113; Aug. 2; Sp. p. 566; Gaz. vol. 157; p. 92.
McCall, Lemuel H., Callaway, Nebr. Plow attachment. No. 948,614; Feb. 8; Sp. p. 1763; Gaz. vol. 151; p. 305.
McCall, Thomas A., and C. M. Siebert, Jr., assignors to The Siebert-Welch Company, Columbus, Ohio. Handle for massage apparatus. No. 961,365; June 14; Sp. p. 2315; Gaz. vol. 155; p. 409.
McCall, Thomas P., assignor of one-half to R. A. Ferguson, Raymond, Miss. Fire-extinguisher. No. 964,299; July 12; Sp. p. 2768; Gaz. vol. 156; p. 456.
McCallister, Clarence A., Marietta, Wash. Nautical instrument. No. 972,889; Oct. 18; Sp. p. 3022; Gaz. vol. 159; p. 533.
McCallum, Charles J., Warren, Me. Cutter-grinder. No. 963,059; July 5; Sp. p. 61; Gaz. vol. 156; p. 12.
McCallum Hosiery Company. (See Rhoades, Leonard W., assignor.)
McCallum Hosiery Company. (See Smith, Charles F., assignor.)
McCallum, Wilks W., Rowlett, assignor of one-half to J. D. Harbin, Garland, Tex. Baling-press. No. 949,748; Feb. 15; Sp. p. 4104; Gaz. vol. 151; p. 711.
McCallum, William A., Cincinnati, Ohio. Hanger for trolley-wires. No. 955,185; Apr. 19; Sp. p. 3204; Gaz. vol. 153; p. 575.
McCallum, William A., Cincinnati, Ohio. Catenary overhead system for electric railways. No. 974,982; Nov. 8; Sp. p. 2066; Gaz. vol. 160; p. 337.
McCamey, Simpson, and W. J. Zimmerman, Portland, Oreg. Dumb-waiter or lift. No. 945,794; Jan. 11; Sp. p. 1745; Gaz. vol. 150; p. 293.
McCan, David C., Los Angeles, Cal. Fuel-briquet. No. 956,901; May 3; Sp. p. 874; Gaz. vol. 154; p. 139.
McCan, David C., Los Angeles, Cal. Fuel-press. No. 956,902; May 3; Sp. p. 876; Gaz. vol. 154; p. 139.
McCan, David C., Los Angeles, Cal. Fuel-briquet. No. 959,870; May 31; Sp. p. 7450; Gaz. vol. 154; p. 1260.
McCan, David C., Los Angeles, Cal. Fuel-press. No. 962,716; June 28; Sp. p. 5241; Gaz. vol. 155; p. 915.
McCan, David C., Los Angeles, Cal. Bucket. No. 978,181; Dec. 13; Sp. p. 1667; Gaz. vol. 161; p. 293.
McCan, David C., Los Angeles, Cal. Fuel-briquet. No. 978,182; Dec. 13; Sp. p. 1668; Gaz. vol. 161; p. 293.
McCan, David C., Los Angeles, Cal. Arrester. No. 978,183; Dec. 13; Sp. p. 1669; Gaz. vol. 161; p. 293.
McCanlis, Albert T., assignor of one-half to L. Leder, Rockville Center, N. Y. Tipping bucket-handle. No. 964,118; July 12; Sp. p. 2404; Gaz. vol. 156; p. 394.
McCanlis, Albert T., Richmond Hill, assignor of one-half to L. Leder, Rockville Center, N. Y. Sink attachment. No. 975,626; Nov. 15; Sp. p. 3443; Gaz. vol. 160; p. 584.
McCanlon, Martin H. (See Phillips and McCanlon.)
McCann, Charles F., *et al.* (See Miles, Edmund, assignor.)
McCann, Owen, assignor to The American Printing House for the Blind, Louisville, Ky. Embossing-press. No. 956,140; Apr. 26; Sp. p. 5311; Gaz. vol. 153; p. 934.
McCann, William B., Omaha, Nebr., assignor, by mesne assignments, to Marvel Manufacturing Company. Ice-cream freezer. No. 967,221; Aug. 16; Sp. p. 2981; Gaz. vol. 157; p. 517.
McCann, William E. (See Sandel and McCann.)
McCans, George. (See Hambry and McCans.)
McCanse, William, Hobart, Okla. Electric-light hanger. No. 958,269; May 17; Sp. p. 3952; Gaz. vol. 154; p. 666.
McCardle, John W., and C. M. Chapman, Indianapolis, Ind.; said Chapman assignor to said McCardle. Fountain-brush. No. 968,186; Aug. 23; Sp. p. 5025; Gaz. vol. 157; p. 866.

Alphabetical list of patentees—Continued.

McCarroll, Walker W., Arlington, N. J. Machine for curving electrotypes. No. 974,288; Nov. 1; Sp. p. 475; Gaz. vol. 160; p. 69.
McCarroll, William R., Hedley, Tex. Hog-yoke. No. 974,901; Nov. 8; Sp. p. 1856; Gaz. vol. 160; p. 308.
McCarron, Frederick, Fort Hancock, N. J. Bottle. No. 964,044; July 12; Sp. p. 2240; Gaz. vol. 156; p. 369.
McCarson, Earnest G., and C. A. Bedell, Chattanooga, Tenn. Cattle-guard for railways. No. 978,319; Dec. 13; Sp. p. 1956; Gaz. vol. 161; p. 341.
McCarthy, Charles A., Hattiesburg, Miss. Garment-supporter. No. 956,141; Apr. 26; Sp. p. 5313; Gaz. vol. 153; p. 934.
McCarthy, Charles A., assignor of one-half to F. S. Senton, Hattiesburg, Miss. Wire-rope clamp. No. 951,095; Mar. 1; Sp. p. 1281; Gaz. vol. 152; p. 210.
McCarthy, Clarence A., assignor to P. C. Murphy Trunk Company, St. Louis, Mo. Trunk. No. 957,704; May 10; Sp. p. 2553; Gaz. vol. 154; p. 442.
McCarthy, Daniel F., McKeesport, Pa. Smoke-bell support. No. 960,106; May 31; Sp. p. 7984; Gaz. vol. 154; p. 1341.
McCarthy, Daniel J., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 967,222; Aug. 16; Sp. p. 2984; Gaz. vol. 157; p. 517.
McCarthy, Eugene J., New York, N. Y. Massaging apparatus. No. 975,702; Nov. 15; Sp. p. 3609; Gaz. vol. 160; p. 608.
McCarthy, John S., assignor to Ideal Manufacturing Company, Detroit, Mich. Heater. No. 979,527; Dec. 27; Sp. p. 4548; Gaz. vol. 161; p. 803.
McCarthy, William B., Milford, Conn. Passenger strap-hanger. No. 952,927; Mar. 22; Sp. p. 5045; Gaz. vol. 152; p. 906.
McCarty, Alexander H. (See Gallaspy and McCarty.)
McCarty, Eugene J., Clinton, Mass. Valve. No. 966,040; Aug. 2; Sp. p. 424; Gaz. vol. 157; p. 68.
McCarty, George B., *et al.* (See Woods, John H., assignor.)
McCarty, George W., New Brighton, Pa. Culinary implement. No. 967,815; Aug. 16; Sp. p. 4186; Gaz. vol. 157; p. 718.
McCarty, H. C. (See McLaughlin, Milton P., assignor.)
McCarty, Harry C., Williamsport, Pa. Safety-valve. No. 953,052; Mar. 29; Sp. p. 5297; Gaz. vol. 152; p. 976.
McCarty, Matthew. (See Rowe and McCarty.)
McCarty, Milton T., assignor to E. H. Kelley and G. L. Norris, Frankfort, Ind. Duplex spray-pump. No. 963,626; July 5; Sp. p. 1330; Gaz. vol. 156; p. 206.
McCarty, Norman, assignor to Atlas Engine Works, Indianapolis, Ind. Oil-pump. No. 950,076; Feb. 22; Sp. p. 4882; Gaz. vol. 151; p. 859.
McCarty, Norman, assignor to Atlas Engine Works, Indianapolis, Ind. Device for alternating atomizer-pressures. No. 966,581; Aug. 9; Sp. p. 1610; Gaz. vol. 157; p. 274.
McCarty, Richard J., Kansas City, Mo. Multiple piston mechanism. No. 977,816; Dec. 6; Sp. p. 863; Gaz. vol. 161; p. 136.
McCarty, Robert A., Detroit, Mich. Cuspidor. No. 964,930; July 19; Sp. p. 4207; Gaz. vol. 156; p. 702.
McCarty, Samuel H., and J. T. Hindman, assignors of one-third to W. W. Hallam, Grayville, Ill. Railway-rail. No. 967,414; Aug. 16; Sp. p. 3390; Gaz. vol. 157; p. 584.
McCarty, Wreford L., Memphis, Tenn., assignor to Automatic Marking Company, Augusta, Ga. Display-rack. No. 950,006; Feb. 22; Sp. p. 4740; Gaz. vol. 151; p. 837.
McCaskey, Alfred S., assignor, by mesne assignments, to McCaskey Electric Calculator Company, Chicago, Ill. Automatic check-handling attachment for calculating and listing machines. No. 951,143; Mar. 8; Sp. p. 1378; Gaz. vol. 152; p. 250.
McCaskey Electric Calculator Company. (See McCaskey, Alfred S., assignor.)
McCaskey, Perry A., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 977,960; Dec. 6; Sp. p. 1171; Gaz. vol. 161; p. 187.
McCaskey, Perry A., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 977,961; Dec. 6; Sp. p. 1176; Gaz. vol. 161; p. 188.
McCaskey Register Co., The. (See Staples and Potter, assignors.) (Reissue.)
McCaskey Register Company, The. (See Dunning, William E., assignor.)
McCaskey Register Company, The. (See Hick, Harry J., assignor.)
McCaskey Register Company, The. (See Jacobs, George, assignor.)
McCaskey Register Company, The. (See McCaskey, Perry A., assignor.)
McCaslin, Francis C., Zanesville, Ohio. Greenhouse-bench mold. No. 974,685; Nov. 1; Sp. p. 1376; Gaz. vol. 160; p. 214.
McCaslin, William, assignor to Draper Company, Hopedale, Mass. Means for facilitating warp change in looms. No. 976,273; Nov. 22; Sp. p. 4858; Gaz. vol. 160; p. 829.
McCaughey, Bernard, Pawtucket, R. I. Broiler. No. 946,859; Jan. 18; Sp. p. 4149; Gaz. vol. 150; p. 686.
McCaughey, Ralph H., Campbell, Cal. Disk-harrow adjustment. No. 952,341; Mar. 15; Sp. p. 3793; Gaz. vol. 152; p. 678.
McCauley, Edward J., Vallejo, Cal. Attachment for washing-machines. No. 967,032; Aug. 9; Sp. p. 2591; Gaz. vol. 157; p. 425.
McCauley, Joseph E., *et al.* (See Green, James M., assignor.)
McCauley, William A., Brooklyn, assignor of one-half to G. J. Soper, Bayside, N. Y. Dredge-nozzle. No. 952,928; Mar. 22; Sp. p. 5047; Gaz. vol. 152; p. 907.
McClain, Fred. (See Wolf and McClain.)
McClain, Heyt N., *et al.* (See Drake, Charles H., assignor.)
McClain, Johnston C., Ambridge, Pa. Window-ventilator. No. 966,942; Aug. 9; Sp. p. 2395; Gaz. vol. 157; p. 393.
McClary Manufacturing Company. (See Ward, Albert, assignor.)
McClaskey, Franklin J., Millvale borough, assignor to The Allegheny Cornice and Skylight Company, Pittsburg, Pa. Window-lock. No. 979,017; Dec. 20; Sp. p. 3454; Gaz. vol. 161; p. 606.
McClave-Brooks Company. (See McClave, William, assignor.)
McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Furnace-arch. No. 978,917; Dec. 20; Sp. p. 3210; Gaz. vol. 161; p. 570.
McClean, Samuel N., Cleveland, Ohio. Gun. No. 968,678; Aug. 30; Sp. p. 6078; Gaz. vol. 157; p. 1065.
McCleary, Harry, Washington, D. C. Cue. No. 951,739; Mar. 8; Sp. p. 2580; Gaz. vol. 152; p. 446.
McCleary, Harry, assignor of one-half to J. Bendion, Washington, D. C. Muffler cut-out for automobiles. No. 971,458; Sept. 27; Sp. p. 4876; Gaz. vol. 158; p. 854.
McClees, Nelson P. (See Lang, Camille, assignor.)
McClellan, Edward J. (See Garvin and McClellan.)
McClellan, James B., assignor of one-third to E. Gulick, Denison, Iowa. Wheel-scraper. No. 975,974; Nov. 15; Sp. p. 4153; Gaz. vol. 160; p. 702.
McClellan, John. (See Giles, Edwin S., assignor.)
McClellan, John, McGill, Nev. Railway tamping-machine. No. 967,033; Aug. 9; Sp. p. 2592; Gaz. vol. 157; p. 426.
McClellan, Stephen, Brooklyn, N. Y. Chain breast ratchet-drill. No. 976,131; Nov. 15; Sp. p. 4482; Gaz. vol. 160; p. 756.
McClellan, Thomas L., Los Angeles, Cal. Truck. No. 949,942; Feb. 22; Sp. p. 4557; Gaz. vol. 151; p. 813.
McClelland, James B., Jr., Clarendon, Tex. Mirror-supporting device. No. 968,068; Aug. 23; Sp. p. 4748; Gaz. vol. 157; p. 826.
McClellon, James M., Everett, Mass. Fire-box for boilers. No. 963,627; July 5; Sp. p. 1332; Gaz. vol. 156; p. 206.
McClellon, James M., Everett, Mass. Fire-box. No. 964,300; July 12; Sp. p. 2770; Gaz. vol. 156; p. 456.
McClintock, Charles D., Fruitvale, assignor of one-half to S. R. Bogue, San Francisco, Cal. Power-transmitting mechanism. No. 970,640; Sept. 20; Sp. p. 3218; Gaz. vol. 158; p. 554.
McClintock, J. Y., Rochester, N. Y. Making pavements. No. 959,985; May 17; Sp. p. 3227; Gaz. vol. 154; p. 567.
McClintock, James L., Clearwater, Kans., assignor of one-half to L. Moore, Washington, D. C. Type-writer. No. 952,543; Mar. 22; Sp. p. 4224; Gaz. vol. 152; p. 775.
McClintock, Joel M. (See Dawson, Artemas L., assignor.)
McClintock, Louis E. (See Coilom, McClintock, Stewart, and McCreight.)
McClintock, William G. (See Carleton, Charles A., assignor.)
McClintock, William M., St. Paul, Minn. Interlocking contact relay. No. 959,958; May 31; Sp. p. 7654; Gaz. vol. 154; p. 1291.
McCloud, Edward H., Columbus, Ohio. Fireproof door or shutter. No. 959,576; May 31; Sp. p. 6823; Gaz. vol. 154; p. 1161.
McCloud, Edward H., Columbus, Ohio. Fireproof door or shutter. No. 967,543; Aug. 16; Sp. p. 3647; Gaz. vol. 157; p. 627.
McCloud, Edward H., Columbus, Ohio. Flexible fire-resisting shutter and slat therefor. No. 978,770; Dec. 13; Sp. p. 2922; Gaz. vol. 161; p. 494.
McCloud, Edward H., Columbus, Ohio. Flexible fire-resisting shutter and slat therefor. No. 978,771; Dec. 13; Sp. p. 2923; Gaz. vol. 161; p. 494.
McCloud, Sidney, Chicago, Ill. Metallic railway-tie. No. 949,834; Feb. 22; Sp. p. 4294; Gaz. vol. 151; p. 774.
McCloy, William A., Ada, Ohio. Envelop. No. 975,627; Nov. 15; Sp. p. 3444; Gaz. vol. 160; p. 585.
McClung, Edgar A., Dayton, Wash. Current-motor. No. 966,041; Aug. 2; Sp. p. 426; Gaz. vol. 157; p. 68.
McClung, Edgar A., Dayton, Wash. Rotary current-motor. No. 966,042; Aug. 2; Sp. p. 430; Gaz. vol. 157; p. 69.
McClung, Samuel J., Fayette, W. Va. Garment-supporter. No. 952,835; Mar. 22; Sp. p. 4867; Gaz. vol. 152; p. 876.
McClure, Edward, assignor of one-half to F. P. Smith, Chicago, Ill. Automatic door-closing device. No. 972,631; Oct. 11; Sp. p. 2458; Gaz. vol. 159; p. 418.
McClure, John H., Coshocton, Ohio, assignor of one-half to W. R. Smith, Jackson, Mich. Convertible table-bed. No. 952,209; Mar. 15; Sp. p. 3520; Gaz. vol. 152; p. 633.

Alphabetical list of patentees—Continued.

McCoach, John A., La Cygne, Kans. Crude-oil burner. No. 965,831; July 26; Sp. p. 6127; Gaz. vol. 156; p. 1039.
McCollom, Edwin P., Baltimore, Md. Valve or faucet. No. 953,637; Mar. 29; Sp. p. 6578; Gaz. vol. 152; p. 1174.
McCollough, Newton C. (See McCown, John W., assignor.)
McCollum, Frank G., Cambridge, Mass. Detachable shoe-heel. No. 951,021; Mar. 1; Sp. p. 1146; Gaz. vol. 152; p. 186.
McComb, George S., San Francisco, Cal. Telephone-receiver attachment. No. 963,628; July 5; Sp. p. 1338; Gaz. vol. 156; p. 207.
McComb, Jennings S., Dobbs Ferry, N. Y. Extensible post or pillar for loose-leaf binders. No. 947,975; Feb. 1; Sp. p. 415; Gaz. vol. 151; p. 66.
McComb, Jennings S., Dobbs Ferry, N. Y. Loose-leaf binder and punch. No. 947,976; Feb. 1; Sp. p. 416; Gaz. vol. 151; p. 66.
McComb, Jennings S., Dobbs Ferry, N. Y. Support for leaves of loose-leaf binders. No. 947,977; Feb. 1; Sp. p. 418; Gaz. vol. 151; p. 66.
McComb, Jennings S., Dobbs Ferry, N. Y. Extensible pillar or post for loose-leaf binders. No. 947,978; Feb. 1; Sp. p. 419; Gaz. vol. 151; p. 66.
McComb, Samuel B., Zenith, Kans. Feeder for grain-bearing straw. No. 962,238; June 21; Sp. p. 4179; Gaz. vol. 155; p. 726.
McComb, William N., New York, N. Y. Electric illuminated sign. No. 964,301; July 12; Sp. p. 2771; Gaz. vol. 156; p. 457.
McComber, Frank A., Marshalltown, Iowa. Grain-door for cars. No. 968,387; Aug. 23; Sp. p. 5433; Gaz. vol. 157; p. 937.
McComber, Frank A., assignor of one-half to F. H. Gifford, Marshalltown, Iowa. Car-door. No. 954,326; Apr. 5; Sp. p. 1343; Gaz. vol. 153; p. 222.
McCombie, Alexander, Grass Valley, Cal. Sectional fruit-picking step-ladder. No. 952,836; Mar. 22; Sp. p. 4868; Gaz. vol. 152; p. 876.
McConahey, William M., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. System of potential regulation. No. 968,587; Aug. 30; Sp. p. 5853; Gaz. vol. 157; p. 1032.
McCone, Alexander J., Reno, Nev. Ore-sampling apparatus. No. 949,284; Feb. 15; Sp. p. 3150; Gaz. vol. 151; p. 555.
McConeghy, John W., Philadelphia, Pa. Weighing-scoop. No. 977,668; Dec. 6; Sp. p. 562; Gaz. vol. 161; p. 85.
McConnel, Donald V. (See Yeager, Frederick A., assignor.)
McConnel, William N., *et al.* (See Ross, John A., assignor.)
McConnell, Benjamin F. (See Chamberlain, Wilson P., Jr., assignor.)
McConnell, James B. (See Eddleman, Peter A., assignor.)
McConnell, James J., Wilmington, Del. Self-locking brake shoe and head. No. 978,772; Dec. 13; Sp. p. 2925; Gaz. vol. 161; p. 495.
McConnell, John E., Paxton, Nebr. Trace-carrier. No. 953,431; Mar. 29; Sp. p. 6144; Gaz. vol. 152; p. 1103.
McConnell, William H., Harlan, Iowa. Combination roller and scraper. No. 946,978; Jan. 18; Sp. p. 4412; Gaz. vol. 150; p. 726.
McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
McConway & Torley Company, The. (See Kelso, Joseph, assignor.)
McConway & Torley Company, The. (See Kelso, William, assignor.)
McConway & Torley Company, The. (See Matthews, William R., assignor.)
McConway, William, Pittsburg, Pa. Car-wheel. No. 946,995; Jan. 18; Sp. p. 4442; Gaz. vol. 150; p. 732.
McConway, William, Pittsburg, Pa. Car-wheel. No. 962,456; June 28; Sp. p. 4677; Gaz. vol. 155; p. 826.
McCool, William A., Beaver Falls, Pa., assignor to Acme-Keystone Mfg. Co. Sewing-machine. No. 946,979; Jan. 18; Sp. p. 4414; Gaz. vol. 150; p. 726.
McCool, William A., Beaver Falls, Pa., assignor to Acme-Keystone Mfg. Company. Blindstitch sewing-machine. No. 960,570; June 7; Sp. p. 681; Gaz. vol. 155; p. 112.
McCool, William A., Beaver Falls, Pa., assignor to Acme-Keystone Manufacturing Company. Type-writer. No. 964,045; July 12; Sp. p. 2241; Gaz. vol. 156; p. 370.
McCool, William A., Beaver Falls, Pa., assignor to Acme-Keystone Manufacturing Company. Paper-feed mechanism for type-writers. No. 964,046; July 12; Sp. p. 2253; Gaz. vol. 156; p. 370.
McCoole, Gabriel W., Little Rock, Ark. Sprinkling apparatus. No. 972,396; Oct. 11; Sp. p. 1907; Gaz. vol. 159; p. 335.
McCord, Alvin C., Chicago, Ill. Device for delivering mail from fast-moving cars. No. 967,223; Aug. 16; Sp. p. 2986; Gaz. vol. 157; p. 517.
McCord, Alvin C., Chicago, Ill. Device for delivering mail from fast-moving cars. No. 967,224; Aug. 16; Sp. p. 2991; Gaz. vol. 157; p. 518.
McCord & Company. (See Randel, Ivar A., assignor.)
McCord Manufacturing Company. (See Dietz, William, assignor.)
McCorkle, Stephen M., and R. L. Payne, Foss, Okla. Baling-press. No. 950,700; Mar. 1; Sp. p. 506; Gaz. vol. 152; p. 81.
McCormack, Harry M., *et al.* (See Bayly, Harry E., assignor.)
McCormack, Harry S., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 948,481; Feb. 8; Sp. p. 1472; Gaz. vol. 151; p. 261.
McCormack, Harry S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 953,793; Apr. 5; Sp. p. 218; Gaz. vol. 153; p. 40.
McCormack, Harry S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 953,854; Apr. 5; Sp. p. 347; Gaz. vol. 153; p. 62.
McCormack, Harry S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 963,629; July 5; Sp. p. 1339; Gaz. vol. 156; p. 207.
McCormack, Harry S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 972,009; Oct. 4; Sp. p. 1098; Gaz. vol. 159; p. 184.
McCormack, Harry S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 972,566; Oct. 11; Sp. p. 2306; Gaz. vol. 159; p. 396.
McCormack, Harry S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 972,706; Oct. 11; Sp. p. 2591; Gaz. vol. 159; p. 442.
McCormack, Harry S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 975,264; Nov. 8; Sp. p. 2680; Gaz. vol. 160; p. 433.
McCormack, William H., West Allis, Wis. Protecting pad or shield. No. 961,309; June 14; Sp. p. 2181; Gaz. vol. 155; p. 390.
McCormick, Edward, Oklahoma, Okla. Dirt-spreading attachment for cars. No. 954,536; Apr. 12; Sp. p. 1794; Gaz. vol. 153; p. 322.
McCormick, Henry D., Newark, N. J. Horseshoe. No. 971,138; Sept. 27; Sp. p. 4251; Gaz. vol. 158; p. 749.
McCormick, Horace, Des Moines, Iowa. Register. No. 967,816; Aug. 16; Sp. p. 4188; Gaz. vol. 157; p. 718.
McCormick, John, Northville, S. D. Grain-shocker. No. 962,656; June 28; Sp. p. 5110; Gaz. vol. 155; p. 893.
McCormick, John H., Columbus, Ohio. Truck side frame. No. 945,133; Jan. 4; Sp. p. 253; Gaz. vol. 150; p. 44.
McCormick, John H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 960,376; June 7; Sp. p. 280; Gaz. vol. 155; p. 48.
McCormick, Stanley M. (See Hogan and McCormick.)
McCormick, Terrill W., Denton, Tex. Bench-dog. No. 979,528; Dec. 27; Sp. p. 4550; Gaz. vol. 161; p. 803.
McCormick, Thad. (See Orr, Edward E., assignor.)
McCormick, Thomas E., Canton, Ohio. Railway-tie. No. 972,890; Oct. 18; Sp. p. 3024; Gaz. vol. 159; p. 534.
McCormick, William E., assignor to International Telephone Manufacturing Company, Chicago, Ill. Transmitter. No. 947,395; Jan. 25; Sp. p. 5315; Gaz. vol. 150; p. 893.
McCornack, Herbert, assignor to The Sharples Separator Company, West Chester, Pa. Machine for measuring and assorting balls. No. 951,254; Mar. 8; Sp. p. 1594; Gaz. vol. 152; p. 285.
McCorquodale, Wilmer E., Orange, Tex. Sewer connection. No. 974,752; Nov. 1; Sp. p. 1527; Gaz. vol. 160; p. 234.
McCourtie, William B., Springfield, Mass. Apparatus for use in embalming. No. 948,115; Feb. 1; Sp. p. 695; Gaz. vol. 151; p. 113.
McCown, J. R. (See Kilman, John J., assignor.)
McCown, John W., assignor of one-half to N. C. McCollough, Butler, Pa. Valve. No. 958,521; May 17; Sp. p. 4608; Gaz. vol. 154; p. 756.
McCoy, Elijah, Carthage, Mo. Buggy-top support. No. 947,738; Jan. 25; Sp. p. 6048; Gaz. vol. 150; p. 1008.
McCoy, James A., West Somerville, Mass., assignor to National Electrical Advertising Co., Evansville, Ind. Advertising device. No. 956,142; Apr. 26; Sp. p. 5314; Gaz. vol. 153; p. 934.
McCoy, John P., Philadelphia, Pa. Chaplet. No. 967,034; Aug. 9; Sp. p. 2594; Gaz. vol. 157; p. 426.
McCoy, Michael, Dexter, Minn. Separator. No. 956,776; May 3; Sp. p. 593; Gaz. vol. 154; p. 94.
McCoy, Olan B., Fort Worth, Tex. Adjuster for locomotive-headlights. No. 958,522; May 17; Sp. p. 4610; Gaz. vol. 154; p. 756.
McCoy, Robert, Vineland, N. J., assignor of one-half to Peerless Pearl Company, Philadelphia, Pa. Button cutting and drilling machine. No. 959,151; May 24; Sp. p. 5934; Gaz. vol. 154; p. 993.
McCoy, Walter E., *et al.* (See Swallow, Joseph G., assignor.)
McCoy, William R., Wayne City, Ill. Bench stop and clamp. No. 978,918; Dec. 20; Sp. p. 3213; Gaz. vol. 161; p. 570.

McCoy, William W., Cincinnati, Ohio. Brush for power marking-machines. No. 975,883; Nov. 15; Sp. p. 3978; Gaz. vol. 160; p. 670.
McCracken, Frederick M. (See Hogge, Richard A., assignor.)
McCracken, Robert A., Santa Ana, assignor of one-half to Henry A. Reed, Los Angeles, Cal. Coin-detector chute. No. 980,112; Dec. 27; Sp. p. 5845; Gaz. vol. 161; p. 1000.
McCracken, William J., Paullina, assignor of one-half to W. Fraser, Sutherland, Iowa. Tile-making machine. No. 951,740; Mar. 8; Sp. p. 2581; Gaz. vol. 152; p. 447.
McCrae, John E. (See Biser and McCrae.)
McCrae, William W. (See Biser and McCrae.)
McCrary, John N., Lexington, N. C. Releasing device. No. 963,310; July 5; Sp. p. 696; Gaz. vol. 156; p. 100.
McCrary, Pierce R., Philadelphia, Pa. Ice-making. No. 963,311; July 5; Sp. p. 698; Gaz. vol. 156; p. 100.
McCrea, Samuel B. (See Haskell and McCrea.)
McCready, Clifford. (See Davis and McCready.)
McCready, Ira T., Oak Park, Ill. Cork-tapering machine. No. 958,756; May 24; Sp. p. 5078; Gaz. vol. 154; p. 858.
McCready, James P., Berlin, N. H. Pulp-lap-forming machine. No. 967,035; Aug. 9; Sp. p. 2595; Gaz. vol. 157; p. 426.
McCreary, Abram T., assignor of one-half to G. Peck, Fortyfort, Pa. Horseshoe toe-calk bar. No. 965,119; July 19; Sp. p. 4577; Gaz. vol. 156; p. 764.
McCreary, Elijah R., Bush, La. Water-motor. No. 972,010; Oct. 4; Sp. p. 1102; Gaz. vol. 159; p. 184.
McCreary, James A. (See Mitchell and McCreary.)
McCreary, Robert E., Guntersville, Ala. Clothes-pin. No. 946,255; Jan. 11; Sp. p. 2740; Gaz. vol. 150; p. 456.
McCreavy, William T., Philadelphia, Pa. Metal-shaping apparatus. No. 973,682; Oct. 25; Sp. p. 4771; Gaz. vol. 159; p. 829.
McCreery, Clayton I., Muncie, Ind. Corn-turner. No. 975,265; Nov. 8; Sp. p. 2682; Gaz. vol. 160; p. 433.
McCreery Engineering Company. (See Luehrs, Daniel M., assignor.)
McCreight, Robert R. (See Collom, McClintock, Stewart, and McCreight.)
McCrum-Howell Company. (See Crane, Thomas S., assignor.)
McCullagh, George. (See Primeau and McCullagh.)
McCullah, James, Alpha, Minn. End-gate latch. No. 966,349; Aug. 2; Sp. p. 1048; Gaz. vol. 157; p. 168.
McCulloch, Marsena P., Red Oak, Iowa. Irrigation system. No. 970,383; Sept. 13; Sp. p. 2636; Gaz. vol. 158; p. 445.
McCulloch, Robert H. (See Welch, William W., assignor.)
McCune, Charles A., Jersey City, N. J., assignor to The Commercial Acetylene Company, New York, N. Y. Lamp. No. 956,720; May 3; Sp. p. 474; Gaz. vol. 154; p. 76.
McCune, James W., New Albany, Miss. Combined cross-arm support and brace. No. 970,091; Sept. 13; Sp. p. 2042; Gaz. vol. 158; p. 347.
McCune, William E., Kosciusko, Miss. Stovepipe-holder. No. 957,571; May 10; Sp. p. 2284; Gaz. vol. 154; p. 396.
McCurdy, Oscar S. (See Mahoney and McCurdy.)
McCurdy, William H., *et al.* (See Light, Samuel E., assignor.)
McDade, William F., Middletown, Pa. Fastening for shoes, corsets, &c. No. 963,799; July 12; Sp. p. 1720; Gaz. vol. 156; p. 287.
McDanel, Hibbard S. (See Henrichs, William, assignor.)
McDaniel, Duncan E., Hamer, S. C. Cultivator. No. 968,588; Aug. 30; Sp. p. 5856; Gaz. vol. 157; p. 1033.
McDaniel, James, Seattle, Wash. Sieve. No. 971,770; Oct. 4; Sp. p. 542; Gaz. vol. 159; p. 95.
McDaniel, James E., assignor of two-fifths to T. C. and A. W. Hamby, Columbia, S. C. Axle-box for vehicles. No. 958,270; May 17; Sp. p. 3955; Gaz. vol. 154; p. 666.
McDaniel, Job M., Norman, Okla. Supply-valve for tanks. No. 964,047; July 12; Sp. p. 2254; Gaz. vol. 156; p. 370.
McDaniel, John F. (See Driscoll, Dan, assignor.)
McDaniel, Levi B., Concrete, Wash. Toy briquet-mold. No. 965,480; July 26; Sp. p. 5355; Gaz. vol. 156; p. 917.
McDaniels, Eli. (See Simpson, Richard W., assignor.)
McDaniels, John N., Los Angeles, Cal. Folding camp-stove. No. 963,922; July 12; Sp. p. 1990; Gaz. vol. 156; p. 327.
McDaniels, Lester, Sheridan, Wyo. Baker's oven. No. 966,582; Aug. 9; Sp. p. 1612; Gaz. vol. 157; p. 275.
McDannel, George H. (See Lawrence, Theodore M., assignor.)
McDermott, Charles H. (See Harrison, Frank M., assignor.)
McDermott, Charles H. (See Roberts, Henry P., assignor.)
McDermott, Charles K. (See Wilson and McDermott.)
McDermott, John T., Baltimore, Md. Safety gas-cock. No. 962,378; June 21; Sp. p. 4479; Gaz. vol. 155; p. 773.
McDermott, Leslie L., *et al.* (See Castle, Frank, assignor.)
McDermott, Patrick P. (See Allen, Jasper M., assignor.)
McDevitt, William H. (See Walker and McDevitt.)
McDonagh, John. (See Reynolds and McDonagh.)
McDonald, A. F. (See Simpson, Charles K., assignor.)
McDonald, Allan. (See Keating and McDonald.)
McDonald, Bert E. (See McGerry, Min Delin, assignor.)
McDonald, Charles B. and C. D., assignors to McDonald Machine Company, Chicago, Ill. Can-testing machine. No. 945,573; Jan. 4; Sp. p. 1223; Gaz. vol. 150; p. 189.
McDonald, Charles D. (See McDonald, Charles B. and C. D.)
McDonald, Charles D., assignor to McDonald Machine Company, Chicago, Ill. Automatic die-press. No. 970,092; Sept. 13; Sp. p. 2043; Gaz. vol. 158; p. 347.
McDonald, Donald, Louisville, Ky. Combined counting, integrating, and tally device. No. 962,162; June 21; Sp. p. 4041; Gaz. vol. 155; p. 702.
McDonald, Elijah D., Los Angeles, Cal. Reinforced-concrete pile. No. 979,529; Dec. 27; Sp. p. 4551; Gaz. vol. 161; p. 803.
McDonald, Frank V., Los Angeles, Cal. Feed-regulator for concrete-mixers. No. 978,320; Dec. 13; Sp. p. 1958; Gaz. vol. 161; p. 342.
McDonald, Hervey A., *et al.* (See Barnes, Ned E., assignor.)
McDonald, Hugh, New Castle, Pa. Wrench. No. 966,943; Aug. 9; Sp. p. 2397; Gaz. vol. 157; p. 394.
McDonald, Hunter, *et al.* (See King, William A., assignor.)
McDonald, James J., *et al.* (See Auble, James H., assignor.)
McDonald, James J., Cleveland, Ohio. Automatic fluid-regulator. No. 960,033; May 31; Sp. p. 7844; Gaz. vol. 154; p. 1318.
McDonald, John A., Glace Bay, and W. L. Rennie, Dominion, Nova Scotia, Canada. Game. No. 970,257; Sept. 13; Sp. p. 2398; Gaz. vol. 158; p. 404.
McDonald, John J., Lynn, Mass. Adjustable flue-receiver. No. 975,703; Nov. 15; Sp. p. 3611; Gaz. vol. 160; p. 609.
McDonald, John M., assignor to A. Y. McDonald Mfg. Co., Dubuque, Iowa. Basin-cock. No. 978,773; Dec. 13; Sp. p. 2926; Gaz. vol. 161; p. 495.
McDonald Machine Company. (See McDonald, Charles D., assignor.)
McDonald Mfg. Co., A. Y. (See McDonald, John M., assignor.)
McDonald, Nathan W. (See Wagner and McDonald.)
McDonald Oil and Water Elevator Company, The. (See McDonald, Thomas H., assignor.)
McDonald, Osmon W., Rising Star, Tex. Air-blast apparatus for cotton-gins. No. 976,671; Nov. 22; Sp. p. 5703; Gaz. vol. 160; p. 965.
McDonald, Patrick J., assignor of one-half to G. H. Smith, Rochester, N. Y. Electrical cut-out. No. 954,537; Apr. 12; Sp. p. 1795; Gaz. vol. 153; p. 322.
McDonald, Patrick J., assignor of one-half to G. H. Smith, Rochester, N. Y. Test-coupling for electric conductors. No. 966,400; Aug. 2; Sp. p. 1147; Gaz. vol. 157; p. 185.
McDonald, Ronald D., De Land, Fla. Closet-seat attachment. No. 964,533; July 19; Sp. p. 3267; Gaz. vol. 156; p. 563.
McDonald, Sterling B., Greenwood, Nebr. Cuspidor. No. 979,980; Dec. 27; Sp. p. 5534; Gaz. vol. 161; p. 955.
McDonald, Thomas, Dublin, Tex. Differential-speed-roller cotton-seed huller. No. 951,653; Mar. 8; Sp. p. 2419; Gaz. vol. 152; p. 418.
McDonald, Thomas, Dublin, Tex. Pneumatic cotton-seed separator and cleaner. No. 972,212; Oct. 11; Sp. p. 1523; Gaz. vol. 159; p. 271.
McDonald, Thomas, and J. C. Barrett, Youngstown, Ohio. Charging blast-furnaces. No. 951,144; Mar. 8; Sp. p. 1382; Gaz. vol. 152; p. 251.
McDonald, Thomas H., assignor to The McDonald Oil and Water Elevator Company, Tropico, Cal. Oil and water elevator. No. 970,093; Sept. 13; Sp. p. 2048; Gaz. vol. 158; p. 348.
McDonald, William, Cameron, Wis. Clothes-drainer. No. 978,184; Dec. 13; Sp. p. 1670; Gaz. vol. 161; p. 293.
McDonald, William B. (See Farley and McDonald.)
McDonald, William R., Dallas, Oreg. Non-refillable bottle. No. 966,944; Aug. 9; Sp. p. 2398; Gaz. vol. 157; p. 394.
McDonell, R. J. (See Halley, Edward, assignor.)
McDonnell, Alexander R., Patten, Me. Snap-hook. No. 960,676; June 7; Sp. p. 892; Gaz. vol. 155; p. 148.
McDonnell, George P., assignor to C. A. Lindborg, St. Louis, Mo. Synchronizing apparatus. No. 945,976; Jan. 11; Sp. p. 2159; Gaz. vol. 150; p. 359.
McDonnell, Joseph F., Cedar Rapids, Iowa. Steel shoe or sandal. No. 946,846; Jan. 18; Sp. p. 4117; Gaz. vol. 150; p. 681.
McDonnell, Milton E. (See Pease and McDonnell.)
McDonner, Charley, Manitowoc, assignor of one-half to C. Simono, Two Rivers, Wis. Curtain-fixture. No. 977,962; Dec. 6; Sp. p. 1182; Gaz. vol. 161; p. 188.
McDonnold, Pleasant T., Terrell, Tex. Plow-frame. No. 959,871; May 31; Sp. p. 7451; Gaz. vol. 154; p. 1260.
McDonough, John P., assignor of one-half to L. A. Ragan, St. Louis, Mo. Stove and range construction. No. 977,417; Nov. 29; Sp. p. 7378; Gaz. vol. 160; p. 1247.
McDorman, Paul, assignor to The Nat'l Laundry Machinery Company, Dayton, Ohio. Electrolytic cell. No. 968,492; Aug. 23; Sp. p. 5646; Gaz. vol. 157; p. 973.
McDougall, Alexander, Duluth, Minn. Ore-cleaner. No. 963,721; July 5; Sp. p. 1519; Gaz. vol. 156; p. 237.
McDougall, Andrew H. (See Rundle and McDougall.)

Alphabetical list of patentees—Continued.

McDougall, Andrew H., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Weighing mechanism for traveling cranes. No. 961,888; June 21; Sp. p. 3434; Gaz. vol. 155; p. 607.
McDougall, Charles P. (See Connaty, James W., assignor.)
McDougall, James A., Cincinnati, Ohio. Drier for thin lumber and veneer. No. 954,041; Apr. 5; Sp. p. 719; Gaz. vol. 153; p. 126.
McDougall, Moore D., Watsonville, Cal. Automatic watering-trough. No. 975,554; Nov. 15; Sp. p. 3300; Gaz. vol. 160; p. 560.
McDougall, Walter, New York, N. Y. Reel-holder. No. 955,980; Apr. 26; Sp. p. 4965; Gaz. vol. 153; p. 878.
McDowall, Peter, assignor of one-half to C. L. Piper, West Concord, N. H. Apparatus for coaling vessels at sea. No. 977,464; Dec. 6; Sp. p. 75; Gaz. vol. 161; p. 15.
McDowell, George, New York, assignor of one-half to H. G. Latimer, Brooklyn, N. Y. Internal-combustion engine. No. 950,297; Feb. 22; Sp. p. 5336; Gaz. vol. 151; p. 936.
McDowell, John A., Columbus, Ohio. Moving advertising apparatus. No. 968,967; Aug. 30; Sp. p. 6661; Gaz. vol. 157; p. 1160.
McDowell Manufacturing Company. (See Hartman, Harry B., assignor.)
McEachern, Daniel, Mesa, Ariz., assignor of one-half to F. E. Rich, Los Angeles, Cal. Tire-press. No. 968,877; Aug. 30; Sp. p. 6486; Gaz. vol. 157; p. 1129.
McEachron, Arthur B., West De Pere, Wis., and E. J. McEachron, Rochester, N. Y. Holder for roll toilet-paper. No. 977,418; Nov. 29; Sp. p. 7380; Gaz. vol. 160; p. 1247.
McEachron, Edgar J. (See McEachron, Arthur B. and E. J.)
McEachron, George, Forsyth, Mich. Flour-sifter. No. 947,684; Jan. 25; Sp. p. 5953; Gaz. vol. 150; p. 990.
McEachron, George, Oklahoma, Okla. Automatic flour-sifter. No. 957,438; May 10; Sp. p. 2026; Gaz. vol. 154; p. 351.
McElhone, Francis J., Jersey City, N. J. Electroplating. No. 973,951; Oct. 25; Sp. p. 5516; Gaz. vol. 159; p. 923.
McElroy, George E. (See Woodruff and McElroy.)
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Thermostatic controller for car-heating systems. No. 949,285; Feb. 15; Sp. p. 3152; Gaz. vol. 151; p. 555.
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Steam-heat regulator. No. 949,286; Feb. 15; Sp. p. 3153; Gaz. vol. 151; p. 556.
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Automatic train-hose coupling. No. 959,152; May 24; Sp. p. 5938; Gaz. vol. 154; p. 994.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Electric switch. No. 959,248; May 24; Sp. p. 6138; Gaz. vol. 154; p. 1025.
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric heater. No. 959,872; May 31; Sp. p. 7452; Gaz. vol. 154; p. 1260.
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Mechanism for operating car steps and doors. No. 959,873; May 31; Sp. p. 7453; Gaz. vol. 154; p. 1260.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Air-brake. No. 962,517; June 28; Sp. p. 4808; Gaz. vol. 155; p. 847.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Electric buzzer. No. 963,238; July 5; Sp. p. 533; Gaz. vol. 156; p. 75.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Lighting and battery circuits. No. 976,743; Nov. 22; Sp. p. 5834; Gaz. vol. 160; p. 988.
McElroy, James F., Albany, assignor, by mesne assignments, to The United States Light & Heating Company, New York, N. Y. Electric-lighting apparatus. No. 978,388; Dec. 13; Sp. p. 2106; Gaz. vol. 161; p. 367.
McElroy, James F., and J. E. Macomber, Albany, N. Y., assignors to Consolidated Car Heating Company. Relay-magnet. No. 976,586; Nov. 22; Sp. p. 5540; Gaz. vol. 160; p. 936.
McElroy, John H., Chicago, Ill. Voting-machine. No. 972,213; Oct. 11; Sp. p. 1524; Gaz. vol. 159; p. 271.
McElroy, John H., Chicago, Ill. Voting-machine. No. 972,214; Oct. 11; Sp. p. 1537; Gaz. vol. 159; p. 272.
McElroy, John H., Chicago, Ill. Voting-machine. No. 972,215; Oct. 11; Sp. p. 1547; Gaz. vol. 159; p. 273.
McElroy, Patrick J., Cambridge, assignor to himself, and Randall-Faichney Company, Boston, Mass. Hypodermic needle. No. 950,822; Mar. 1; Sp. p. 779; Gaz. vol. 152; p. 124.
McElroy, Patrick J., Cambridge, assignor to himself, and Randall-Faichney Company, Boston, Mass. Syringe. No. 962,657; June 28; Sp. p. 5117; Gaz. vol. 155; p. 894.
McElroy, Thomas G., Ottumwa, Iowa. Refrigerator. No. 959,376; May 24; Sp. p. 6390; Gaz. vol. 154; p. 1068.
McElveen, George, Detroit, Mich. Invalid bed or cot. No. 945,282; Jan. 4; Sp. p. 573; Gaz. vol. 150; p. 94.
McElveen, Murray F., Osyka, Miss. Plow-point. No. 975,555; Nov. 15; Sp. p. 3302; Gaz. vol. 160; p. 560.
McElwee, George D. (See Smylie and McElwee.)
McEvoy, James, Toronto, Ontario, Canada. Apparatus for handling mine-cars. No. 978,321; Dec. 13; Sp. p. 1960; Gaz. vol. 161; p. 342.
McEwan, Charles F., Marengo, Ill., assignor to Borden's Condensed Milk Company. Bottle-filling machine. No. 959,577; May 31; Sp. p. 6824; Gaz. vol. 154; p. 1162.
McEwen, Daniel H., *et al.* (See Stanley, John C. W., assignor.)
McFadden, Benjamin B., Binghamton, N. Y. Envelop-blank-cutting die. No. 953,220; Mar. 29; Sp. p. 5677; Gaz. vol. 152; p. 1032.
McFadden, Ida L., Reno, Nev. Shirt-waist holder. No. 946,641; Jan. 18; Sp. p. 3648; Gaz. vol. 150; p. 611.
McFadden, John M., Beaumont, Tex. Journal-box. No. 965,398; July 26; Sp. p. 5174; Gaz. vol. 156; p. 888.
McFadden, Laurence and W. A., Parkton, Md. Rail-joint. No. 969,648; Sept. 6; Sp. p. 1055; Gaz. vol. 158; p. 169.
McFadden, Michael J., and C. C. Hiers, St. Paul, Minn. Nut-shaving machine. No. 962,239; June 21; Sp. p. 4183; Gaz. vol. 155; p. 727.
McFadden, William A. (See McFadden, Laurence and W. A.)
McFall, David S. (See Groom, McFall, and Noah.)
McFarland, Edwin. (See O'Keefe, Daniel, assignor.)
McFarland, Edwin, Burgettstown, Pa. Paper-hanging machine. No. 953,432; Mar. 29; Sp. p. 6146; Gaz. vol. 152; p. 1103.
McFarland, Eldon J., Seattle, Wash. Puzzle. No. 962,039; June 21; Sp. p. 3746; Gaz. vol. 155; p. 657.
McFarland, John A. (See Davis and McFarland.)
McFarland, John C. (See Irving, Andrew, assignor.)
McFarland, John C., Spokane, Wash. Tenpin-setter. No. 975,445; Nov. 15; Sp. p. 3051; Gaz. vol. 160; p. 521.
McFarland, Royal B., Sunbury, Ohio. Siding-strip. No. 967,415; Aug. 16; Sp. p. 3391; Gaz. vol. 157; p. 584.
McFarland, William H., East Orange, N. J. Computing and recording machine. No. 973,683; Oct. 25; Sp. p. 4773; Gaz. vol. 159; p. 830.
McFarland, William W., assignor of one-third to H. L. Weber and one-third to T. Nollenberger, Denver, Colo. Amusement apparatus. No. 976,896; Nov. 29; Sp. p. 6195; Gaz. vol. 160; p. 1066.
McFarlane, George C., Saginaw, Mich. Spiral-jet injector. No. 950,598; Mar. 1; Sp. p. 279; Gaz. vol. 152; p. 46.
McFarlane, Hugh, Scotstoun, near Glasgow, Scotland, assignor to The Singer Manufacturing Company. Bobbin-winding device for sewing-machines. No. 961,154; June 14; Sp. p. 1841; Gaz. vol. 155; p. 334.
McFarlane, John, assignor of one-half to O. A. Purdey, Washington, D. C. Machine for hulling cotton-seed. No. 955,532; Apr. 19; Sp. p. 3952; Gaz. vol. 153; p. 694.
McFarlane, Peter, Central City, Colo. Concentrator. No. 956,777; May 3; Sp. p. 594; Gaz. vol. 154; p. 95.
McFeely, Robert S., Scalp Level, Pa. Section-insulator. No. 948,899; Feb. 8; Sp. p. 2363; Gaz. vol. 151; p. 401.
McFeely, Ronald F., Beverly, assignor to United Shoe Machinery Company, Boston, Mass., and Paterson, N. J. Pulling-over machine. No. 950,701; Mar. 1; Sp. p. 508; Gaz. vol. 152; p. 81.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 959,874; May 31; Sp. p. 7455; Gaz. vol. 154; p. 1260.
McFetridge, Joseph, Vandergrift, Pa. Treating sulfid ores containing copper. No. 959,578; May 31; Sp. p. 6826; Gaz. vol. 154; p. 1162.
McGaa, William D., Douglas, Wyo. Pencil and pen holder and guard. No. 953,638; Mar. 29; Sp. p. 6580; Gaz. vol. 152; p. 1175.
McGaffey, Richard, assignor of one-half to G. H. Vreeland, Superior, Wis. Barrel-hoop. No. 953,639; Mar. 29; Sp. p. 6580; Gaz. vol. 152; p. 1175.
McGahan, Frederick L., St. Louis, Mo. Blowpipe. No. 955,092; Apr. 12; Sp. p. 3013; Gaz. vol. 153; p. 511.
McGann, John A., Attleboro, Mass. Pin. No. 961,366; June 14; Sp. p. 2317; Gaz. vol. 155; p. 410.
McGann, Thomas F., Somerville, assignor to The Thomas F. McGann & Sons Company, Boston, Mass. Sash-bar. No. 947,617; Jan. 25; Sp. p. 5833; Gaz. vol. 150; p. 968.
McGann, Thomas F., Somerville, assignor to The T. F. McGann & Sons Company, Boston, Mass. Sash-bar. No. 960,677; June 7; Sp. p. 893; Gaz. vol. 155; p. 148.
McGann, Thomas G. (See Volk and McGann.)
McGann, Thomas W. J., Dallas, assignor, by mesne assignments, of one-half to M. B. Gleason, El Paso, Tex. Rerailer. No. 976,137; Nov. 15; Sp. p. 4494; Gaz. vol. 160; p. 758.
McGarvey, Robert W., Woodlawn, Pa. Twyer for blast-furnaces. No. 967,416; Aug. 16; Sp. p. 3392; Gaz. vol. 157; p. 584.
McGaw, Solon, assignor of one-half to T. Garth, Decatur, Ala. Vehicle-brake. No. 956,402; Apr. 26; Sp. p. 5884; Gaz. vol. 153; p. 1023.
McGee, James L., La Junta, Colo., assignor to The McGee Six-Way Valve Company. Reverse-lever-operating mechanism for locomotives. No. 969,181; Sept. 6; Sp. p. 82; Gaz. vol. 158; p. 13.
McGee, Joseph A., Big Spring, Ind. Multiple-disk friction-clutch. No. 974,101; Oct. 25; Sp. p. 5621; Gaz. vol. 159; p. 974.

McGee, Joseph F., Brady, Nebr. Combined nut-lock and washer. No. 966,945; Aug. 9; Sp. p. 2400; Gaz. vol. 157; p. 394.
McGee, Richmond M., Dallas, Tex. Automatic street-calling device. No. 972,397; Oct. 11; Sp. p. 1908; Gaz. vol. 159; p. 335.
McGee Six-Way Valve Company, The. (See McGee, James L., assignor.)
McGee, William D., Portland, assignor of one-half to C. L. Phillips, The Dalles, Oreg. Mechanism for converting motion. No. 974,412; Nov. 1; Sp. p. 747; Gaz. vol. 160; p. 113.
McGehee, George T., San Marcos, Tex. Root-puller. No. 971,459; Sept. 27; Sp. p. 4877; Gaz. vol. 158; p. 854.
McGehee, Jennie L. (See McGehee, John W., assignor.)
McGehee, John W., Martin, assignor of two-thirds to J. L. McGehee, Jackson, Tenn. Machine for facilitating the separation of garlic from wheat. No. 979,186; Dec. 20; Sp. p. 3852; Gaz. vol. 161; p. 666.
McGenniss, David, Winston Salem, N. C. Chair attachment. No. 951,145; Mar. 8; Sp. p. 1383; Gaz. vol. 152; p. 251.
McGeorge, William C., assignor of one-half to G. D. Cooper, Oakland, Cal. Gas burner and grate. No. 972,775; Oct. 11; Sp. p. 2738; Gaz. vol. 159; p. 466.
McGeouch, William P., Somerville, Mass. Machine for cutting rubber rings. No. 948,401; Feb. 8; Sp. p. 1309; Gaz. vol. 151; p. 235.
McGerry, Min Delin, Grand Rapids, Mich., assignor to B. E. McDonald, Chicago, Ill. Electric heater. No. 950,599; Mar. 1; Sp. p. 283; Gaz. vol. 152; p. 47.
McGhan, Addison H., Washington, D. C. Portable scaffold. No. 974,686; Nov. 1; Sp. p. 1378; Gaz. vol. 160; p. 214.
McGhee, Robert J., Virginia, Minn. Drag-saw machine. No. 947,928; Feb. 1; Sp. p. 306; Gaz. vol. 151; p. 51.
McGibbeny, Hayes. (See Roberts, Linas P., assignor.)
McGibbon, John N., Sauk Center, Minn. Sieve-cleaning device. No. 949,026; Feb. 15; Sp. p. 2640; Gaz. vol. 151; p. 470.
McGiehan, Isaac S., Westminster, London, England. Elastic tire for vehicles. No. 959,579; May 31; Sp. p. 6827; Gaz. vol. 154; p. 1162.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Machine for logging. No. 964,534; July 19; Sp. p. 3268; Gaz. vol. 156; p. 563.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Machine for logging. No. 964,535; July 19; Sp. p. 3275; Gaz. vol. 156; p. 563.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Track-laying machine. No. 967,817; Aug. 16; Sp. p. 4189; Gaz. vol. 157; p. 718.
McGilchrist, Archibald, Graphiteville, N. C. Brake for steam vessels. No. 953,152; Mar. 29; Sp. p. 5540; Gaz. vol. 152; p. 1010.
McGill, Catherine, Chicago, Ill. Cooking utensil. No. 966,946; Aug. 9; Sp. p. 2401; Gaz. vol. 157; p. 395.
McGill, Charles, and A. R. Higginbotham, Red House Shoals, W. Va. Switch-lock. No. 978,046; Dec. 6; Sp. p. 1343; Gaz. vol. 161; p. 215.
McGill, Daniel, Appleton, Wis. Railway-joint chair or coupling. No. 955,533; Apr. 19; Sp. p. 3954; Gaz. vol. 153; p. 694.
McGill, George W., Enid, Okla. Traction-machine. No. 956,143; Apr. 26; Sp. p. 5316; Gaz. vol. 153; p. 934.
McGill, George W., Riverdale-on-Hudson, N. Y. Metallic fastener. No. 974,805; Nov. 8; Sp. p. 1644; Gaz. vol. 160; p. 275.
McGill, Waliace D., assignor of one-half to P. W. O'Brien, Leavenworth, Kans. Convertible spacing mechanism for type-writers. No. 945,244; Jan. 4; Sp. p. 495; Gaz. vol. 150; p. 81.
McGilvary Company, The. (See McGilvary, Evander B., assignor.)
McGilvary, Evander B., Madison, Wis. Attachment for type-writers. No. 972,776; Oct. 11; Sp. p. 2739; Gaz. vol. 159; p. 466.
McGilvary, Evander B., assignor to The McGilvary Company, Madison, Wis. Stitch-removing device. No. 970,733; Sept. 20; Sp. p. 3408; Gaz. vol. 158; p. 585.
McGinn, Christopher S., St. Louis, Mo. Asphalt expansion-joint. No. 950,541; Mar. 1; Sp. p. 166; Gaz. vol. 152; p. 28.
McGinn, James L., Jr., Columbus, Ga. Cotton-gin. No. 947,214; Jan. 18; Sp. p. 4864; Gaz. vol. 150; p. 802.
McGinness, Anthony J., Monessen, Pa. Rolling-mill for tubes. No. 954,201; Apr. 5; Sp. p. 1074; Gaz. vol. 153; p. 182.
McGinnis, Claude A., assignor to Dowman-Dozier Manufacturing Company, Atlanta, Ga. Glazing-bar. No. 961,728; June 14; Sp. p. 3054; Gaz. vol. 155; p. 529.
McGinnis, Claude A., assignor to Dowman-Dozier Manufacturing Company, Atlanta, Ga. Fireproof window-frame. No. 961,729; June 14; Sp. p. 3056; Gaz. vol. 155; p. 530.
McGinnis, Claude A., assignor to Dowman-Dozier Manufacturing Company, Atlanta, Ga. Metal window-sash. No. 961,730; June 14; Sp. p. 3058; Gaz. vol. 155; p. 530.
McGinnis, Claude A., assignor to Dowman-Dozier Manufacturing Company, Atlanta, Ga. Sheet-metal sash. No. 961,731; June 14; Sp. p. 3059; Gaz. vol. 155; p. 530.
McGinnis, John, Scranton, Pa. Stop-motion. No. 971,911; Oct. 4; Sp. p. 862; Gaz. vol. 159; p. 148.
McGinnis, William C., Butler, Pa. Spittoon. No. 967,225; Aug. 16; Sp. p. 2996; Gaz. vol. 157; p. 518.
McGirr, Theodore G., assignor to Acme Wrapping Machine Company, New York, N. Y. Wrapping-machine. No. 949,801; Feb. 22; Sp. p. 4223; Gaz. vol. 151; p. 762.
McGirr, Theodore G., assignor to Acme Wrapping Machine Company, New York, N. Y. Wrapping-machine. No. 949,802; Feb. 22; Sp. p. 4226; Gaz. vol. 151; p. 763.
McGirr, Theodore G., assignor to Acme Wrapping Machine Company, New York, N. Y. Wrapping-machine. No. 949,803; Feb. 22; Sp. p. 4228; Gaz. vol. 151; p. 763.
McGirr, Theodore G., assignor to Acme Wrapping Machine Company, New York, N. Y. Wrapping and labeling machine. No. 949,804; Feb. 22; Sp. p. 4231; Gaz. vol. 151; p. 764.
McGirr, Theodore G., assignor to Acme Wrapping Machine Company, New York, N. Y. Sheet-feeding mechanism. No. 949,835; Feb. 22; Sp. p. 4297; Gaz. vol. 151; p. 775.
McGivern, William J. (See Garratt and McGivern.)
McGlade, John, Newton, Miss. Ladder. No. 952,463; Mar. 22; Sp. p. 4037; Gaz. vol. 152; p. 747.
McGonegal, John, and W. J. Francis, Pittsburg, Pa.; said McGonegal assignor to said Francis. Self-heating sad-iron. No. 951,091; Mar. 1; Sp. p. 1273; Gaz. vol. 152; p. 208.
McGooden, Samuel. (See Crosby and McGooden.)
McGovern, Stephen A. D., Oneida, Ill. Draft-bar for harrows. No. 952,210; Mar. 15; Sp. p. 3523; Gaz. vol. 152; p. 634.
McGowan, Patrick H., Denver, Colo. Ore-separator. No. 945,857; Jan. 11; Sp. p. 1903; Gaz. vol. 150; p. 316.
McGranahan, Charles, *et al.* (See Paar, Henry, assignor.)
McGrane, John F., assignor of one-half to J. M. Morin, Pittsburg, Pa. Non-refillable bottle. No. 970,384; Sept. 13; Sp. p. 2637; Gaz. vol. 158; p. 445.
McGrath, Francis. (See Michaud and McGrath.)
McGrath, John J., Chicago, Ill. Mail-delivery apparatus. No. 946,392; Jan. 11; Sp. p. 3121; Gaz. vol. 150; p. 502.
McGrath, Lillie, Chicago, Ill. Holder or rack for fringes. No. 955,981; Apr. 26; Sp. p. 4967; Gaz. vol. 153; p. 878.
McGrath, Nicholas B., Southington, Conn. Square. No. 964,998; July 19; Sp. p. 4341; Gaz. vol. 156; p. 724.
McGrath, Redmond J., assignor of one-half to D. W. Murphy, Chicago, Ill. Combination shaft-hanger and belt-tightener. No. 960,571; June 7; Sp. p. 683; Gaz. vol. 155; p. 112.
McGrath, Stephen W., Cincinnati, Ohio. Metal-frame screen. No. 947,838; Feb. 1; Sp. p. 100; Gaz. vol. 151; p. 21.
McGreevy, Allen S., Philadelphia, Pa. Hand-stamp. No. 955,669; Apr. 19; Sp. p. 4281; Gaz. vol. 153; p. 740.
McGregor, Alexander G. (See Crabtree and McGregor.)
McGregor, Allan L., Duluth, Minn. Automobile-buffer. No. 958,420; May 17; Sp. p. 4404; Gaz. vol. 154; p. 720.
McGregor, Ann. (See Reed, John A., assignor.)
McGregor, James, Fordsburg, near Johannesburg, Transvaal. Washboiler attachment. No. 975,055; Nov. 8; Sp. p. 2220; Gaz. vol. 160; p. 361.
McGregor, John A., assignor to Union Twist Drill Co., Athol, Mass. Gang milling-cutter. No. 963,464; July 5; Sp. p. 1006; Gaz. vol. 156; p. 152.
McGregor, Robert F., Philadelphia, Pa. Refrigerator-car. No. 949,491; Feb. 15; Sp. p. 3589; Gaz. vol. 151; p. 625.
McGrew, Albert E., Scottsburg, Ind. Vegetable-cutter. No. 952,625; Mar. 22; Sp. p. 4412; Gaz. vol. 152; p. 804.
McGrew, Clifford E. (See Thoma and McGrew.)
McGuigan, Joseph, assignor of one-half to E. Stein, Detroit, Mich. Ironing-table. No. 957,439; May 10; Sp. p. 2028; Gaz. vol. 154; p. 351.
McGuiness, Benjamin F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Take-up mechanism of looms. No. 954,127; Apr. 5; Sp. p. 891; Gaz. vol. 153; p. 155.
McGuiness, Benjamin F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom. No. 966,466; Aug. 9; Sp. p. 1315; Gaz. vol. 157; p. 235.
McGuire, James F., Chicago, Ill. Music-leaf turner. No. 955,093; Apr. 12; Sp. p. 3016; Gaz. vol. 153; p. 512.
McGuire, James R., Chadwick, Mo. Railway-tie. No. 952,342; Mar. 15; Sp. p. 3794; Gaz. vol. 152; p. 679.
McGuire, John J., New York, N. Y. Dust-proof self-oiler for axles. No. 950,298; Feb. 22; Sp. p. 5338; Gaz. vol. 151; p. 937.
McGuire, Michael L., Syracuse, N. Y. Collar. No. 946,980; Jan. 18; Sp. p. 4415; Gaz. vol. 150; p. 726.
McGuire, William H., Hobart, Okla. Furnace. No. 971,548; Oct. 4; Sp. p. 82; Gaz. vol. 159; p. 16.
McGuirk, Ambrose P., Davenport, Iowa. Stovepipe and thimble. No. 961,519; June 14; Sp. p. 2634; Gaz. vol. 155; p. 460.
McGvire, Thomas P. (See Baum, James B., assignor.)

Alphabetical list of patentees—Continued.

McHardy, James A., assignor of one-half to E. M. Johnson, Providence, R. I. Cap for renewing the worn ends of engine valve-stems. No. 976,274; Nov. 22; Sp. p. 4860; Gaz. vol. 160; p. 829.
McHenry, Samuel B., Chicago, Ill. Brush. No. 975,776; Nov. 15; Sp. p. 3767; Gaz. vol. 160; p. 634.
McHill, William R., assignor of one-third to J. H. Cramer, Moran, Kans. Liquid-fuel burner. No. 976,820; Nov. 22; Sp. p. 6006; Gaz. vol. 160; p. 1015.
McHugh, Edward T., Holyoke, Mass. Rocking-bar furnace-grate. No. 972,707; Oct. 11; Sp. p. 2599; Gaz. vol. 159; p. 443.
McHugh, Edward T., Holyoke, Mass. Molder's flask. No. 974,983; Nov. 8; Sp. p. 2068; Gaz. vol. 160; p. 337.
McHugh, William. (See Shutts and McHugh.)
McIlvrid, William, assignor to Cockburn Barrow & Machine Company, Jersey City, N. J. Grout-mixer. No. 958,421; May 17; Sp. p. 4406; Gaz. vol. 154; p. 721.
McIntire, George A., Port Chester, N. Y., assignor to Perfection Wrench Company. Wrench. No. 952,079; Mar. 15; Sp. p. 3275; Gaz. vol. 152; p. 590.
McIntire, Harvey W., assignor of one-half to W. Goss, St. Johnsbury, Vt. Checkrein-holder. No. 966,947; Aug. 9; Sp. p. 2402; Gaz. vol. 157; p. 395.
McIntire, Jacob N., assignor to The Brunswick-Balke-Collender Company, New York, N. Y. Convertible sofa billiard-table. No. 954,757; Apr. 12; Sp. p. 2306; Gaz. vol. 153; p. 399.
McIntire, Jacob N., assignor to The Brunswick-Balke-Collender Company, New York, N. Y. Billiard-bridge. No. 968,187; Aug. 23; Sp. p. 5026; Gaz. vol. 157; p. 866.
McIntire, John L., Georgetown, Ky. Wagon-bed and hay-rack. No. 952,751; Mar. 22; Sp. p. 4684; Gaz. vol. 152; p. 847.
McIntosh, Adam, Green Island, N. Y. Wash bowl and basin trap. No. 977,319; Nov. 29; Sp. p. 7126; Gaz. vol. 160; p. 1213.
McIntosh, Clyde A. (See Green and McIntosh.)
McIntosh, Frederick P. (See Burrows and McIntosh.)
McIntosh, George T., Cleveland, Ohio. Shelving for stock-rooms. No. 949,196; Feb. 15; Sp. p. 2972; Gaz. vol. 151; p. 526.
McIntosh, John, assignor of one-half to E. L. Patrick, Indianapolis, Ind. Cut-off machine. No. 977,669; Dec. 6; Sp. p. 563; Gaz. vol. 161; p. 86.
McIntosh, Thomas M., Fairfield, Iowa. Rope-making machine. No. 954,686; Apr. 12; Sp. p. 2125; Gaz. vol. 153; p. 373.
McIntosh, William, Grosse Ile, Mich., and F. Bain, La Grange, Ill. Repairing wire cables. No. 963,800; July 12; Sp. p. 1721; Gaz. vol. 156; p. 287.
McIntyre, Andrew A., Camden, N. J. Machine for shaping shanks of shoes. No. 967,036; Aug. 9; Sp. p. 2602; Gaz. vol. 157; p. 427.
McIntyre, Archibald, Croswell, Mich. Culvert. No. 954,202; Apr. 5; Sp. p. 1076; Gaz. vol. 153; p. 182.
McIntyre, Arthur J. (See Poirier, Peter, assignor.)
McIntyre, Daniel D., Bucklin, Kans. Wind-motor. No. 949,027; Feb. 15; Sp. p. 2642; Gaz. vol. 151; p. 470.
McIntyre, David, assignor of one-half to G. D. Ball, Detroit, Mich. Building-block. No. 952,080; Mar. 15; Sp. p. 3278; Gaz. vol. 152; p. 590.
McIntyre, Duncan J., Syracuse, N. Y. Trap, waste and overflow pipe attachment to bath-tubs. No. 952,081; Mar. 15; Sp. p. 3280; Gaz. vol. 152; p. 590.
McIntyre, John J., Hartford, Conn. Tool-holder. No. 958,936; May 24; Sp. p. 5497; Gaz. vol. 154; p. 922.
McIntyre, John J., Hartford, Conn. Air-pump. No. 974,582; Nov. 1; Sp. p. 1162; Gaz. vol. 160; p. 176.
McIntyre, William J., Hartford, Conn. Lathe-center. No. 960,678; June 7; Sp. p. 895; Gaz. vol. 155; p. 148.
McIver, William W., New York, N. Y. Flux for brazing metals. No. 965,647; July 26; Sp. p. 5741; Gaz. vol. 156; p. 976.
McKague, Herbert S., and A. R. Johnson, Altoona, Pa. Current-motor. No. 979,320; Dec. 20; Sp. p. 4126; Gaz. vol. 161; p. 711.
McKain, Frank, Cleveland, Ohio. Bag. No. 977,817; Dec. 6; Sp. p. 866; Gaz. vol. 161; p. 136.
McKane, Calvert T., Beaver Falls, Pa. Folding and guiding attachment for sewing-machines. No. 973,530; Oct. 25; Sp. p. 4444; Gaz. vol. 159; p. 776.
McKay, Joseph, assignor to Hall, Hartwell & Co., Troy, N. Y. Feeding mechanism for sewing-machines. No. 970,847; Sept. 20; Sp. p. 3670; Gaz. vol. 158; p. 627.
McKay, Robert W., Winthrop, Iowa. Potato-digger. No. 953,968; Apr. 5; Sp. p. 559; Gaz. vol. 153; p. 101.
McKay, Robert W., Winthrop, Iowa. Potato-digger. No. 954,042; Apr. 5; Sp. p. 720; Gaz. vol. 153; p. 126.
McKean, John O., Westfield, Mass. Gassing apparatus. No. 948,934; Feb. 8; Sp. p. 2415; Gaz. vol. 151; p. 412.
McKean, John O., Westfield, Mass. Gassing-machine. No. 948,935; Feb. 8; Sp. p. 2418; Gaz. vol. 151; p. 412.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Thread-supply device for braiding-machines. No. 947,416; Jan. 25; Sp. p. 5373; Gaz. vol. 150; p. 900.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Winding-machine. No. 952,015; Mar. 15; Sp. p. 3163; Gaz. vol. 152; p. 569.

McKee, Arthur G., *et al.* (See Nelson, Alfred C., assignor.)
McKee, Arthur G., Cleveland, Ohio. Gas-burner. No. 967,417; Aug. 16; Sp. p. 3396; Gaz. vol. 157; p. 585.
McKee, Arthur G., Cleveland, Ohio. Blast-furnace chimney-valve. No. 973,798; Oct. 25; Sp. p. 5002; Gaz. vol. 159; p. 870.
McKee, Arthur G., Cleveland, Ohio. Blast-furnace-stove gas-burner. No. 975,556; Nov. 15; Sp. p. 3303; Gaz. vol. 160; p. 561.
McKee, Arthur G., Cleveland, Ohio. Twyer-stock. No. 979,187; Dec. 20; Sp. p. 3854; Gaz. vol. 161; p. 666.
McKee and Bliven Button Company, The. (See Miller, John W., assignor.)
McKee, Charles H., Pittsburg, Pa. Rotary disk plow. No. 980,113; Dec. 27; Sp. p. 5846; Gaz. vol. 161; p. 1000.
McKee, Edward, and B. H. Coursey; said Coursey assignor of one-third to J. P. M. Harrison, Ashley, Ill. Railway-crossing. No. 955,346; Apr. 19; Sp. p. 3564; Gaz. vol. 153; p. 630.
McKee, Frank A., and F. R. Horel, Arcata, Cal. Drag-saw machine. No. 974,168; Nov. 1; Sp. p. 122; Gaz. vol. 160; p. 24.
McKee, Jacob L., and R. R. Gates, Dunlap, Ill. Door-opener. No. 948,737; Feb. 8; Sp. p. 2031; Gaz. vol. 151; p. 347.
McKee, John A., Philadelphia, Pa. Cylinder for washing-machines. No. 967,818; Aug. 16; Sp. p. 4194; Gaz. vol. 157; p. 718.
McKee, John S. (See Eastwood and McKee.)
McKee-Newton Manufacturing Company. (See McKee, William J., assignor.)
McKee, Robert, Philadelphia, Pa. Starting-lever for explosive-engines. No. 969,798; Sept. 13; Sp. p. 1401; Gaz. vol. 158; p. 246.
McKee, Robert, Philadelphia, Pa. Starting mechanism for explosive-engines. No. 979,530; Dec. 27; Sp. p. 4553; Gaz. vol. 161; p. 803.
McKee, Robert A., assignor to Allis-Chalmers Company, Milwaukee, Wis. Combined automatic throttle and stop valve. No. 956,595; May 3; Sp. p. 189; Gaz. vol. 154; p. 32.
McKee, Robert A., assignor to Allis-Chalmers Company, Milwaukee, Wis. Turbine-packing. No. 965,399; July 26; Sp. p. 5175; Gaz. vol. 156; p. 888.
McKee, Thomas A., assignor of one-half to J. A. Curtis, Memphis, Mo. Tug-buckle. No. 976,090; Nov. 15; Sp. p. 4371; Gaz. vol. 160; p. 743.
McKee, William J., Detroit, Mich. Machine for pasteurizing liquids. No. 945,404; Jan. 4; Sp. p. 864; Gaz. vol. 150; p. 134.
McKee, William J., assignor to McKee-Newton Manufacturing Company, Detroit, Mich. Pasteurizer. No. 977,029; Nov. 29; Sp. p. 6525; Gaz. vol. 160; p. 1114.
McKee, Willis, assignor to Elyria Iron and Steel Company, Elyria, Ohio. Tie-plate. No. 947,618; Jan. 25; Sp. p. 5834; Gaz. vol. 150; p. 969.
McKee, Willis, assignor to Elyria Iron & Steel Company, Elyria, Ohio. Tie-plate. No. 954,538; Apr. 12; Sp. p. 1797; Gaz. vol. 153; p. 323.
McKee, Willis, assignor to Elyria Iron and Steel Company, Elyria, Ohio. Tie-plate. No. 956,499; Apr. 26; Sp. p. 6105; Gaz. vol. 153; p. 1057.
McKee, Willis, assignor to Elyria Iron and Steel Company, Elyria, Ohio. Tie-plate. No. 958,271; May 17; Sp. p. 3958; Gaz. vol. 154; p. 666.
McKeen, Gordon, assignor of one-half to E. A. Woelfel, Peabody, Mass. Leather-working machine. No. 975,628; Nov. 15; Sp. p. 3445; Gaz. vol. 160; p. 585.
McKeen Motor Car Company. (See Harriman and McKeen, assignors.)
McKeen Motor Car Company. (See McKeen, William R., Jr., assignor.)
McKeen, Thomas L., Easton, Pa. Draft-gear. No. 966,114; Aug. 2; Sp. p. 567; Gaz. vol. 157; p. 92.
McKeen, Thomas L., Easton, Pa. Draft-gear for railway-cars. No. 966,115; Aug. 2; Sp. p. 570; Gaz. vol. 157; p. 93.
McKeen, William R., Jr., assignor, by mesne assignments, to McKeen Motor Car Company, Omaha, Nebr. Car-frame. No. 972,467; Oct. 11; Sp. p. 2047; Gaz. vol. 159; p. 359.
McKeen, William R., Jr., assignor to McKeen Motor Car Company, Omaha, Nebr. Car structure. No. 972,708; Oct. 11; Sp. p. 2601; Gaz. vol. 159; p. 443.
McKeen, William R., Jr., assignor, by mesne assignments, to McKeen Motor Car Company, Omaha, Nebr. Power-transmitting apparatus. No. 973,365; Oct. 18; Sp. p. 4076; Gaz. vol. 159; p. 698.
McKeen, William R., Jr., assignor, by mesne assignments, to McKeen Motor Car Company, Omaha, Nebr. Car-body construction. No. 973,366; Oct. 18; Sp. p. 4085; Gaz. vol. 159; p. 698.
McKeen, William R., Jr., assignor, by mesne assignments, to McKeen Motor Car Company, Omaha, Nebr. Truck construction. No. 973,531; Oct. 25; Sp. p. 4446; Gaz. vol. 159; p. 777.
McKenna, Alexander G. (See Wheeler and McKenna.)
McKenna, David J., Englewood, N. J. Flounce for petticoats. No. 948,821; Feb. 8; Sp. p. 2217; Gaz. vol. 151; p. 375.

Alphabetical list of patentees—Continued.

McKenna, Francis E., Wauwatosa, assignor of one-half to H. B. Burr, Milwaukee, Wis. Ground-wire connector. No. 949,743; Feb. 15; Sp. p. 4089; Gaz. vol. 151; p. 709.

McKennan, Jacob B., Pueblo, Colo. Lift-valve for furnaces. No. 947,201; Jan. 18; Sp. p. 4831; Gaz. vol. 150; p. 797.

McKenney, John, Danbury, Conn. Anvil with vise attachment. No. 979,079; Dec. 20; Sp. p. 3589; Gaz. vol. 161; p. 626.

McKenzie, Albert E., Brandon, Manitoba, Canada. Seed-case. No. 970,454; Sept. 13; Sp. p. 2780; Gaz. vol. 158; p. 468.

McKenzie, Angus, Jamestown, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 945,405; Jan. 4; Sp. p. 866; Gaz. vol. 150; p. 135.

McKenzie, Charles L., Pittsburg, Pa. Excavating scoop or dipper. No. 967,819; Aug. 16; Sp. p. 4195; Gaz. vol. 157; p. 719.

McKenzie, Daniel, Warren, Ohio. Machine for making molds. No. 947,597; Jan. 25; Sp. p. 5786; Gaz. vol. 150; p. 961.

McKenzie, Kenneth, and M. Charley, Anaconda, Mont. Ore-crusher. No. 952,046; Mar. 15; Sp. p. 3220; Gaz. vol. 152; p. 580.

McKenzie, Peter S., Cement, Okla. Mold. No. 954,687; Apr. 12; Sp. p. 2127; Gaz. vol. 153; p. 373.

McKenzie, T. F. (See Mahanay and Price, assignors.)

McKenzie, Thomas W., Hammond, British Columbia, Canada. Automatic circuit-closer. No. 949,593; Feb. 15; Sp. p. 3788; Gaz. vol. 151; p. 659.

McKeown, Joseph, assignor of one-half to A. C. Newman, Worcester, Mass. Needle-threader. No. 963,239; July 5; Sp. p. 534; Gaz. vol. 156; p. 75.

McKeown, Russell J., and W. A. Kirkpatrick, Abbyville, Kans. Automatic weighing-scale. No. 980,114; Dec. 27; Sp. p. 5849; Gaz. vol. 161; p. 1000.

McKerahan, George, Altoona, Pa. Air-pump. No. 963,923; July 12; Sp. p. 1991; Gaz. vol. 156; p. 327.

McKernan, Thomas, *et al.* (See Tullock, William, assignor.)

McKibben, Charles R., Pittsburg, Pa. Pipe-joint. No. 972,119; Oct. 4; Sp. p. 1303; Gaz. vol. 159; p. 221.

McKibben, Frank S., Memphis, Nebr. Burner for liquid fuel. No. 962,457; June 28; Sp. p. 4679; Gaz. vol. 155; p. 826.

McKibben, Frank S., Memphis, Nebr. Construction of motive-fluid generators. No. 962,458; June 28; Sp. p. 4680; Gaz. vol. 155; p. 826.

McKibben, Wilbert E., assignor of one-half to J. E. Moss, Wheeling, W. Va. Cellar-door. No. 948,282; Feb. 1; Sp. p. 1026; Gaz. vol. 151; p. 168.

McKiddy, Horace A., Eagle Gorge, Wash. Train-order-delivering mechanism. No. 953,153; Mar. 29; Sp. p. 5541; Gaz. vol. 152; p. 1010.

McKiearnan, Charles A., Carthage, Mo. Transmission-gearing. No. 960,572; June 7; Sp. p. 684; Gaz. vol. 155; p. 112.

McKiearnan, Charles A., Carthage, Mo. Transmission-gear mechanism for motor-vehicles and the like. No. 960,573; June 7; Sp. p. 687; Gaz. vol. 155; p. 113.

McKim, James C., Beaver Falls, Pa. Strainer. No. 948,900; Feb. 8; Sp. p. 2363; Gaz. vol. 151; p. 402.

McKinlay, Edward S., Oak Creek, Colo. Concentrating apparatus. No. 951,964; Mar. 15; Sp. p. 3060; Gaz. vol. 152; p. 553.

McKinley, John, Detroit, Mich. Device for delivering and catching mail-bags. No. 978,610; Dec. 13; Sp. p. 2602; Gaz. vol. 161; p. 443.

McKinley, Patrick J., Denver, Colo. Game device. No. 973,799; Oct. 25; Sp. p. 5004; Gaz. vol. 159; p. 870.

McKinney, Ansel, Alpine, Tex. Game-counter. No. 952,929; Mar. 22; Sp. p. 5048; Gaz. vol. 152; p. 907.

McKinney, Ansel, Berclair, Tex. Wagon-loader. No. 980,115; Dec. 27; Sp. p. 5852; Gaz. vol. 161; p. 1001.

McKinney, Charles B., Bourbon, Ind. Fire-escape. No. 970,534; Sept. 20; Sp. p. 2965; Gaz. vol. 158; p. 517.

McKinney, Charles Z., Canton, Ohio. Brush. No. 972,011; Oct. 4; Sp. p. 1103; Gaz. vol. 159; p. 185.

McKinney, Claborn P., Skiatook, Okla. Cattle-guard for railways. No. 962,379; June 21; Sp. p. 4481; Gaz. vol. 155; p. 773.

McKinney, Henry B., Evansville, Ind. Automatic watering device for stock. No. 946,802; Jan. 18; Sp. p. 4018; Gaz. vol. 150; p. 666.

McKinney, Leo P., assignor of one-half to J. L. Snow, Boston, Mass. Spare-tire holder and trunk-support. No. 979,188; Dec. 20; Sp. p. 3855; Gaz. vol. 161; p. 667.

McKinney, Ralph W. (See Wilson, Henry E., assignor.)

McKinney, William A., Gainesville, Ga. Driving mechanism. No. 956,721; May 3; Sp. p. 475; Gaz. vol. 154; p. 76.

McKinney, William M., Crows Landing, Cal. Spur. No. 973,367; Oct. 18; Sp. p. 4092; Gaz. vol. 159; p. 699.

McKinnie, Dollas T., Kipling, N. C. Stock-feeder. No. 948,016; Feb. 1; Sp. p. 488; Gaz. vol. 151; p. 79.

McKinnis, John R., Marceline, Mo. Block-switch. No. 946,612; Jan. 18; Sp. p. 3579; Gaz. vol. 150; p. 602.

McKinnis, John R., St. Joseph, Mo. Safety-lock for railway-switches. No. 977,116; Nov. 29; Sp. p. 6720; Gaz. vol. 160; p. 1144.

McKinnon, Archibald J., *et al.* (See Bennett, James H., assignor.)

McKinnon Dash Company. (See Notman, Robert L., assignor.)

McKinnon, Donald J., assignor of two-thirds to K. F., R. B., J. G., and R. S. McKinnon, and E. W. Oliver, Toronto, Canada, and W. A. McKinnon, Birmingham, England. Internal-combustion motor. No. 973,800; Oct. 25; Sp. p. 5006; Gaz. vol. 159; p. 870.

McKinnon, John G., *et al.* (See McKinnon, Donald J., assignor.)

McKinnon, John W. (See Dimelow, Thomas E., assignor.)

McKinnon, K. F., *et al.* (See McKinnon, Donald J., assignor.)

McKinnon, Ronald S., *et al.* (See McKinnon, Donald J., assignor.)

McKinnon, Ross B., *et al.* (See McKinnon, Donald J., assignor.)

McKinnon, William A., *et al.* (See McKinnon, Donald J., assignor.)

McKissick, Edwin M., Columbus, Miss. Adjustable cultivator. No. 968,388; Aug. 23; Sp. p. 5435; Gaz. vol. 157; p. 937.

McKissick, William, Carlisle, Iowa. Starting device. No. 959,153; May 24; Sp. p. 5939; Gaz. vol. 154; p. 994.

McKissock, John L., assignor to M. McKissock, Pittsburg, Pa. Skirt-marker. (Reissue.) No. 13,142; Aug. 9; Sp. p. 2845; Gaz. vol. 157; p. 467.

McKissock, Margaret. (See McKissock, John L., assignor.) (Reissue.)

McKitrick, John W., Marseilles, Ill. Fastener. No. 955,186; Apr. 19; Sp. p. 3206; Gaz. vol. 153; p. 576.

McKitrick, John W., St. Charles, Ill. Fastener. No. 975,266; Nov. 8; Sp. p. 2684; Gaz. vol. 160; p. 434.

McKittrick, Samuel A., Sandusky, Ohio. Cigar-case. No. 952,752; Mar. 22; Sp. p. 4684; Gaz. vol. 152; p. 847.

McKnight, Abraham, El Dorado, Ark. Canning apparatus. No. 949,710; Feb. 15; Sp. p. 4007; Gaz. vol. 151; p. 697.

McKnight, George, Townsend, Mont. Drilling-machine. No. 953,486; Mar. 29; Sp. p. 6258; Gaz. vol. 152; p. 1122.

McKnight, L. G. (See Nichols, Thomas, assignor.)

McKnight, Otey J., Dalhart, Tex. Railway-spike. No. 963,312; July 5; Sp. p. 699; Gaz. vol. 156; p. 100.

McKnight, Samuel E., Lohn, Tex. Valve. No. 959,784; May 31; Sp. p. 7238; Gaz. vol. 154; p. 1229.

McKnight, Stephen E., Colorado Springs, Colo. Potato-cutting and planting machine. No. 971,064; Sept. 27; Sp. p. 4101; Gaz. vol. 158; p. 725.

McKnight, Thomas R. (See Hamper and McKnight.)

McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Journal-box. No. 950,554; Mar. 1; Sp. p. 192; Gaz. vol. 152; p. 32.

McKnight, Walter J., Buffalo, N. Y. Boiler-feed-water heater and purifier. No. 952,930; Mar. 22; Sp. p. 5050; Gaz. vol. 152; p. 907.

McKoy, Edwin A., New Orleans, La. Turpentine-cup. No. 956,403; Apr. 26; Sp. p. 5886; Gaz. vol. 153; p. 1023.

McKuen, Margaret, Guelph, Ontario, Canada. Combined washing-machine and boiler. No. 957,361; May 10; Sp. p. 1868; Gaz. vol. 154; p. 325.

McLain, Eugene K., Clare, Iowa. Snow-plow. No. 947,121; Jan. 18; Sp. p. 4671; Gaz. vol. 150; p. 771.

McLain, Walter, Spiritwood, N. D. Piston-rod stuffing-box and lubricator. No. 978,611; Dec. 13; Sp. p. 2605; Gaz. vol. 161; p. 444.

McLane, A. B., *et al.* (See Shropshire, Jesse C., assignor.)

McLane, Alexander, Lansford, Pa., and G. Sipp, Paterson, N. J. Reel for reeling-machines. No. 946,076; Jan. 11; Sp. p. 2363; Gaz. vol. 150; p. 392.

McLane, Martin, Baltimore, Md. Wrench for screwing flanges or sockets on pipes. No. 949,711; Feb. 15; Sp. p. 4009; Gaz. vol. 151; p. 697.

McLane, Michael G., San Francisco, Cal. Fiber-cleaning device. No. 978,389; Dec. 13; Sp. p. 2110; Gaz. vol. 161; p. 367.

McLauchlin, Jesse, and T. J. Rogers, Bonifay, Fla. Conveyer-chain. No. 964,302; July 12; Sp. p. 2774; Gaz. vol. 156; p. 457.

McLaughlin, Charles H., assignor of one-third to J. Coleman and one-third to J. J. Coleman, Williamsport, Pa. Automatic spring take-up collar. No. 972,216; Oct. 11; Sp. p. 1559; Gaz. vol. 159; p. 273.

McLaughlin, Dennis W., assignor to McLaughlin Manufacturing Company, Berkeley, Cal. Reversing-gear. No. 957,362; May 10; Sp. p. 1869; Gaz. vol. 154; p. 325.

McLaughlin, Francis M. (See Wickersham, Enoch G., assignor.)

McLaughlin, Ivy A., *et al.* (See McAneny, William A., assignor.)

McLaughlin, John, Ottawa, Ontario, Canada. Lumber-kiln. No. 973,872; Oct. 25; Sp. p. 5161; Gaz. vol. 159; p. 896.

McLaughlin, John, assignor of one-third to J. R. Casey and one-third to J. W. Shaver, Bellefontaine, Ohio. Display-rack. No. 971,912; Oct. 4; Sp. p. 864; Gaz. vol. 159; p. 148.

Alphabetical list of patentees—Continued.

McLaughlin, John, and H. D. Beman, assignors to United States Whip Company, Westfield, Mass. Whip-button. No. 977,670; Dec. 6; Sp. p. 566; Gaz. vol. 161; p. 86.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 947,417; Jan. 25; Sp. p. 5375; Gaz. vol. 150; p. 901.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 948,669; Feb. 8; Sp. p. 1881; Gaz. vol. 151; p. 324.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 951,542; Mar. 8; Sp. p. 2192; Gaz. vol. 152; p. 381.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 951,543; Mar. 8; Sp. p. 2194; Gaz. vol. 152; p. 381.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 953,794; Apr. 5; Sp. p. 224; Gaz. vol. 153; p. 40.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 956,144; Apr. 26; Sp. p. 5318; Gaz. vol. 153; p. 935.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 958,817; May 24; Sp. p. 5222; Gaz. vol. 154; p. 881.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 958,818; May 24; Sp. p. 5224; Gaz. vol. 154; p. 881.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No 975,884; Nov. 15; Sp. p. 3979; Gaz. vol. 160; p. 671.
McLaughlin, John C., Jersey City, N. J., and W. Beber, assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 948,668; Feb. 8; Sp. p. 1878; Gaz. vol. 151; p. 324.
McLaughlin Machine Company. (See McAneny, Michael, assignor.)
McLaughlin Manufacturing Company. (See McLaughlin, Dennis W., assignor.)
McLaughlin, Milton P., Wakefield, Mass., assignor of forty-five one-hundredths to H. C. McCarty, Williamsport, Pa. Hose-clamp. No. 973,532; Oct. 25; Sp. p. 4452; Gaz. vol. 159; p. 777.
McLaughlin, Robert, Baltimore, Md. Reinforced concrete. No. 954,128; Apr. 5; Sp. p. 893; Gaz. vol. 153; p. 155.
McLaughlin, Vora, Walnut township, Montgomery county, Ind. Reaper. No. 968,878; Aug. 30; Sp. p. 6487; Gaz. vol. 157; p. 1130.
McLaughlin, William C., assignor of one-fourth to F. E. Whitney, Oakland, Cal. Explosive. No. 968,389; Aug. 23; Sp. p. 5436; Gaz. vol. 157; p. 937.
McLaughlin, William P., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 960,679; June 7; Sp. p. 896; Gaz. vol. 155; p. 149.
McLaurin, James D., New York, N. Y. Treating adhesive binders. No. 954,644; Apr. 12; Sp. p. 2035; Gaz. vol. 153; p. 358.
McLaurin, James D., New York, N. Y. Moistening-machine for adhesive materials. No. 959,875; May 31; Sp. p. 7460; Gaz. vol. 154; p. 1261.
McLean, Andrew, Detroit, Mich. Insulation-joint. No. 960,377; June 7; Sp. p. 287; Gaz. vol. 155; p. 48.
McLean, Andrus B. (See Warne and McLean.)
McLean, Charles W., Arena, N. Y. Stanchion. No. 976,672; Nov. 22; Sp. p. 5705; Gaz. vol. 160; p. 965.
McLean, Frank W., Shreveport, La. Scraper. No. 963,630; July 5; Sp. p. 1342; Gaz. vol. 156; p. 207.
McLean, John. Camden, Ala. Churn. No. 950,338; Feb. 22; Sp. p. 5422; Gaz. vol. 151; p. 950.
McLean, John J., Moose Jaw, Saskatchewan, Canada. Disk harrow. No. 979,782; Dec. 27; Sp. p. 5117; Gaz. vol. 161; p. 890.
McLean, Neil J., Portland, Oreg. Bow-rest for vehicle-tops. No. 952,131; Mar. 15; Sp. p. 3380; Gaz. vol. 152; p. 608.
McLean, William, Philadelphia, Pa. Street-box. No. 965,726; July 26; Sp. p. 5900; Gaz. vol. 156; p. 1003.
McLellan, Harry R. (See Mowry, Albert L., assignor.)
McLennan, Alexander, London, England. Treatment of leather with india-rubber. No. 970,734; Sept. 20; Sp. p. 3417; Gaz. vol. 158; p. 585.
McLennan, John A., Chicago, Ill. Railway-car wheel. No. 968,879; Aug. 30; Sp. p. 6492; Gaz. vol. 157; p. 1131.
McLeod, Archibald A. (See Chamberlain, Schroeder, and McLeod.)
McLeod, Charles M., assignor to J. V. Farwell Company, Chicago, Ill. Sample-holder. No. 962,658; June 28; Sp. p. 5118; Gaz. vol. 155; p. 894.
McLeod, George B., Windsor, Ontario, Canada. Boiler-setting. No. 964,931; July 19; Sp. p. 4208; Gaz. vol. 156; p. 702.
McLeod, George T., assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Heel-breasting machine. No. 957,986; May 17; Sp. p. 3228; Gaz. vol. 154; p. 567.
McLeod, George T., Dedham, assignor to T. G. Plant, Boston, Mass. Welt laying and attaching machine. No. 957,987; May 17; Sp. p. 3234; Gaz. vol. 154; p. 568.
McLeod, George T., Dedham, assignor to T. G. Plant, Boston, Mass. Shoe-supporting rack. No. 957,988; May 17; Sp. p. 3237; Gaz. vol. 154; p. 568.
McLeod, George T., Dedham, assignor to T. G. Plant, Boston, Mass. Brush-cleaner. No. 957,989; May 17; Sp. p. 3239; Gaz. vol. 154; p. 569.
McLeod, George T., Dedham, assignor to T. G. Plant, Boston, Mass. Machine for cutting and slitting insole-reinforcing strips. No. 957,990; May 17; Sp. p. 3241; Gaz. vol. 154; p. 569.
McLeod, George T., Dedham, assignor to T. G. Plant, Boston, Mass. Fabric-supporting reel. No. 957,991; May 17; Sp. p. 3244; Gaz. vol. 154; p. 570.
McLeod, George T., Dedham, assignor to T. G. Plant, Boston, Mass. Machine for tempering outsoles of boots and shoes. No. 957,992; May 17; Sp. p. 3246; Gaz. vol. 154; p. 570.
McLeod, George T., Dedham, assignor to T. G. Plant, Boston, Mass. Heel-edge liner. No. 957,993; May 17; Sp. p. 3247; Gaz. vol. 154; p. 570.
McLeod, Kenneth K., White Bear, Minn. Combined speed-indicator and faucet control. No. 971,139; Sept. 27; Sp. p. 4252; Gaz. vol. 158; p. 750.
McLeod, Lester C., *et al.* (See Christmas, William W., assignor.)
McLeod, Norman, Detroit, Mich. Electric-light hanger. No. 974,687; Nov. 1; Sp. p. 1385; Gaz. vol. 160; p. 215.
McLeod, Robert S., Didsbury, near Manchester, England. Rotor of dynamo-electric machines. No. 965,925; Aug. 2; Sp. p. 161; Gaz. vol. 157; p. 28.
McLeod, William A., *et al.* (See Collins, Albert F., assignor.)
McLeod, William C. (See Brigham, Joseph W., assignor.)
McLeod, William J. K., Buffalo, N. Y. Carbid-feeder for acetylene-generators. No. 979,682; Dec. 27; Sp. p. 4886; Gaz. vol. 161; p. 856.
McLeran, Alvord M., assignor of one-twelfth to J. H. Hughes, Kansas City, Mo. Grinding device. No. 960,378; June 7; Sp. p. 289; Gaz. vol. 155; p. 48.
McLeroy, Joseph S., assignor of three-fourths to W. C. Le Gallais and one-fourth to L. E. Brooks, Pensacola, Fla. Bung-extractor. No. 965,481; July 26; Sp. p. 5356; Gaz. vol. 156; p. 917.
McLevie, William J., Euclid Beach, Ohio. Merry-go-round. No. 966,229; Aug. 2; Sp. p. 829; Gaz. vol. 157; p. 132.
McLewee, Carrie H. (See McLewee, William S., assignor.)
McLewee, William S., Yardley, Pa. Electric switch. No. 964,536; July 19; Sp. p. 3282; Gaz. vol. 156; p. 564.
McLewee, William S., assignor to C. H. McLewee, Yardley, Pa. Electric-lamp socket. No. 948,670; Feb. 8; Sp. p. 1883; Gaz. vol. 151; p. 324.
McMahon, Benet F., Beattie, Kans. Oil-burner. No. 967,037; Aug. 9; Sp. p. 2603; Gaz. vol. 157; p. 427.
McMahon, Byrd. (See Johnson, Perry, and McMahon.)
McMahon, Eddie E., Denver, Colo. Surgical attachment for cots or beds. No. 962,380; June 21; Sp. p. 4483; Gaz. vol. 155; p. 774.
McMahon, Harry R., Cleveland, Ohio. Machine for making reinforced-concrete pipe. No. 958,156; May 17; Sp. p. 3724; Gaz. vol. 154; p. 629.
McMahon, John W., Boston, Mass. Curtain-rod. No. 951,832; Mar. 15; Sp. p. 2784; Gaz. vol. 152; p. 508.
McMahon, Thomas, Philadelphia, Pa. Refractory composition. No. 965,215; July 26; Sp. p. 4776; Gaz. vol. 156; p. 826.
McMahon, William A., Philadelphia, Pa. Incubator-heater. No. 961,520; June 14; Sp. p. 2636; Gaz. vol. 155; p. 460.
McManama, John W., Waltham, assignor to Boston Safety Switch Company, Boston, Mass. Safety appliance for railway-switches. No. 966,848; Aug. 9; Sp. p. 2206; Gaz. vol. 157; p. 363.
McMannus, William H., assignor to U. S. Automatic Vending Machine Company, Los Angeles, Cal. Check-controlled mechanism for vending-machines. No. 967,418; Aug. 16; Sp. p. 3398; Gaz. vol. 157; p. 585.
McManus, Frank. (See Wilson and McManus.)
McManus, Frank, South Norfolk, Va. Fireproof-shutter mechanism. No. 948,239; Feb. 1; Sp. p. 938; Gaz. vol. 151; p. 154.
McManus, George J. (See Sehnert and McManus.)
McManus, Thomas, Detroit, Mich. Flower-pot holder. No. 977,818; Dec. 6; Sp. p. 867; Gaz. vol. 161; p. 136.
McMartin, Chester S., Toledo, Ohio. Skirt-marker. No. 951,573; Mar. 8; Sp. p. 2253; Gaz. vol. 152; p. 391.
McMartin, Hector C. (See Hewitt, Richard, assignor.)
McMaster, Abraham L., Chicago Heights, assignor of one-third to J. M. Street and two-thirds to G. H. Fuller, Chicago, Ill. Railway frog and switch. No. 947,752; Jan. 25; Sp. p. 6068; Gaz. vol. 150; p. 1012.
McMaster, Henry, Detroit, Mich. Shoe. No. 948,338; Feb. 8; Sp. p. 1160; Gaz. vol. 151; p. 213.
McMaster, Henry H., Clairton, Pa. Cooking-stove. No. 963,631; July 5; Sp. p. 1343; Gaz. vol. 156; p. 207.
McMeen & Miller. (See Hulfish, David S., assignor.)

McMeen & Miller. (See Porter, Albert B., assignor.)
McMenamin, Francis J., Philadelphia, Pa. Bin. No. 973,368; Oct. 18; Sp. p. 4093; Gaz. vol. 159; p. 699.
McMerthney, Thomas R., Tacoma, Wash. Syringe. No. 946,256; Jan. 11; Sp. p. 2741; Gaz. vol. 150; p. 456.
McMichael, James G., Chicago, Ill. Rail-joint. No. 973,952; Oct. 25; Sp. p. 5317; Gaz. vol. 159; p. 923.
McMichael, John L. (See Nice and McMichael.)
McMillan, George. (See Klucking, Albin H., assignor.)
McMillan, Hugh P., Baltimore, Md. Wire nail. No. 978,185; Dec. 13; Sp. p. 1672; Gaz. vol. 161; p. 294.
McMillan, Jairus B., North Vernon, Ind. Railway-tie. No. 957,081; May 3; Sp. p. 1250; Gaz. vol. 154; p. 198.
McMillan, Jairus B., North Vernon, Ind. Base for poles. No. 961,521; June 14; Sp. p. 2637; Gaz. vol. 155; p. 460.
McMillan, Moses C. (See Baird, John V., assignor.)
McMillan, William J., Los Angeles, Cal. Measuring and registering faucet. No. 950,948; Mar. 1; Sp. p. 1018; Gaz. vol. 152; p. 163.
McMillen, Addison C. (See McMillen, James A. and A. C.)
McMillen, Dugald, *et al.* (See Jennings, Milo C., assignor.)
McMillen, James A. and A. C., Mercer, Pa. Rail-fastener. No. 964,675; July 19; Sp. p. 3584; Gaz. vol. 156; p. 613.
McMillen, Samuel J., Providence, R. I. Safety-catch for pins. No. 958,422; May 17; Sp. p. 4408; Gaz. vol. 154; p. 721.
McMinn, Benjamin F., Philadelphia, Pa. Dish-washing apparatus. No. 967,957; Aug. 23; Sp. p. 4481; Gaz. vol. 157; p. 789.
McMullen, Charles P., New York, N. Y. Steam and liquid pressure regulating device. No. 946,613; Jan. 18; Sp. p. 3583; Gaz. vol. 150; p. 603.
McMullen, William E., Bristol, Pa. Picture-holder. No. 953,053; Mar. 29; Sp. p. 5300; Gaz. vol. 152; p. 977.
McMunn, George W., Pittsburg, Pa. Car-replacer. No. 953,221; Mar. 29; Sp. p. 5680; Gaz. vol. 152; p. 1032.
McMurray, John H., Schenectady, assignor of one-half to J. T. Gorman, Cohoes, N. Y. Instrument for drawing circles. No. 951,255; Mar. 8; Sp. p. 1596; Gaz. vol. 152; p. 285.
McMurray, William, Highwood, N. J., assignor to The General Package Company. Machine for hinging boxes. No. 968,784; Aug. 30; Sp. p. 6300; Gaz. vol. 157; p. 1099.
McMurray, William, Highwood, N. J., assignor to The General Package Company. Box-hinging machine. No. 968,785; Aug. 30; Sp. p. 6306; Gaz. vol. 157; p. 1100.
McMurtrie, Adnah, assignor to Thomas & Betts Company, New York, N. Y. Attachment for electrical conduits. No. 975,777; Nov. 15; Sp. p. 3769; Gaz. vol. 160; p. 634.
McMyler, John. (See Traves, Webester F., assignor.)
McMyler, John, assignor to The McMyler Manufacturing Company, Cleveland, Ohio. Car-unloading machine. No. 950,238; Feb. 22; Sp. p. 5227; Gaz. vol. 151; p. 916.
McMyler Manufacturing Company, The. (See McMyler, John, assignor.)
McNab, Norman S., Caulfield, and J. S. Link, Melbourne, Victoria, Australia. Automatic apparatus for lighting and extinguishing gas-lamps. No. 969,182; Sept. 6; Sp. p. 84; Gaz. vol. 158; p. 14.
McNabb, Peter M., Joliet, Ill. Mold. No. 974,507; Nov. 1; Sp. p. 990; Gaz. vol. 160; p. 147.
McNabb, Sherman, Prague, Okla. Crude-oil burner. No. 976,482; Nov. 22; Sp. p. 5316; Gaz. vol. 160; p. 901.
McNair, John G., St. Louis, Mo. Shoe-tree. No. 971,210; Sept. 27; Sp. p. 4418; Gaz. vol. 158; p. 774.
McNair, William, New York, N. Y. Lamp-stand. No. 976,587; Nov. 22; Sp. p. 5540; Gaz. vol. 160; p. 936.
McNally, Bliss A. (See Armstrong, William F., assignor.)
McNally, George M., Wellsburg, W. Va. Bottle. No. 979,018; Dec. 20; Sp. p. 3456; Gaz. vol. 161; p. 606.
McNally, Philip T., Mandan, N. D. Electric cut-out. No. 954,327; Apr. 5; Sp. p. 1346; Gaz. vol. 153; p. 223.
McNamara, James, Montreal, Quebec, Canada, assignor to Mergenthaler Linotype Company. Monoline-machine. No. 951,654; Mar. 8; Sp. p. 2421; Gaz. vol. 152; p. 419.
McNamara, James, Montreal, Quebec, Canada, assignor to Mergenthaler Linotype Company. Line-casting machine. No. 951,655; Mar. 8; Sp. p. 2424; Gaz. vol. 152; p. 419.
McNamara, Thomas J., Clinton, Mass. Tree-protector. No. 948,339; Feb. 8; Sp. p. 1161; Gaz. vol. 151; p. 213.
McNamara, William J. (See Roose, Gustave E., assignor.)
McNamara, William S., San Francisco, Cal. Attachment for talking-machines. No. 954,455; Apr. 12; Sp. p. 1609; Gaz. vol. 153; p. 294.
McNamee, John. (See Chenoweth, Alexander C., assignor.)
McNatt, Daniel W., Ridge, Tex. Draft-equalizer. No. 972,012; Oct. 4; Sp. p. 1105; Gaz. vol. 159; p. 185.
McNatton, Adam O., Columbus Junction, Iowa. Collar or hame fastener. No. 979,321; Dec. 20; Sp. p. 4128; Gaz. vol. 161; p. 711.
McNaught, Harry W., assignor to Elevator Safety Equipment Company, Indianapolis, Ind. Elevator safety device. No. 969,296; Sept. 6; Sp. p. 304; Gaz. vol. 158; p. 50.
McNaughton, Hart H. and P., Charlotte, Mich. Grate-bar. No. 945,574; Jan. 4; Sp. p. 1226; Gaz. vol. 150; p. 190.
McNaughton, Peter. (See McNaughton, Hart H. and P.)
McNaughton, William W., Newark, N. J. Necktie-supporter. No. 953,281; Mar. 29; Sp. p. 5812; Gaz. vol. 152; p. 1051.
McNaull, William D., Toledo, Ohio. Vehicle-tire. No. 970,535; Sept. 20; Sp. p. 2966; Gaz. vol. 158; p. 517.
McNeel, James S., Jr., San Antonio, Tex. Milk-cooler. No. 948,960; Feb. 8; Sp. p. 2475; Gaz. vol. 151; p. 421.
McNeel, Lewis F., Grampian, Pa. Head-rest bar. No. 955,094; Apr. 12; Sp. p. 3018; Gaz. vol. 153; p. 512.
McNeel, William P., San Antonio, Tex. Combined switch socket and plug. No. 978,322; Dec. 13; Sp. p. 1962; Gaz. vol. 161; p. 342.
McNeely, Stanley B., Natchez, Miss. Rudder. No. 956,404; Apr. 26; Sp. p. 5887; Gaz. vol. 153; p. 1023.
McNeil, Chester, assignor to United Special Machine Company, Chicago, Ill. Imitation buttonhole. No. 970,094; Sept. 13; Sp. p. 2050; Gaz. vol. 158; p. 348.
McNeil, Edward, East St. Louis, Ill. Automatic switch-thrower. No. 948,427; Feb. 8; Sp. p. 1366; Gaz. vol. 151; p. 243.
McNeil, Joseph H., East Saugus, Mass. Amalgamator. No. 970,536; Sept. 20; Sp. p. 2968; Gaz. vol. 158; p. 518.
McNeil, Joseph H., East Saugus, Mass. Amalgamator. No. 975,704; Nov. 15; Sp. p. 3614; Gaz. vol. 160; p. 609.
McNeil, Murdock J. (See Withers, William J., assignor.)
McNeil, Rose M. (See Stridell, Halbom, and McNeil.)
McNew, William F. (See Heedwell and McNew.)
McNiel, Benjamin N. (See Ball, McNiel, and Pennington.)
McNitt, Robert J., Niagara Falls, assignor to Roessler and Hasslacher Chemical Company, New York, N. Y. Reducing metals. No. 959,785; May 31; Sp. p. 7239; Gaz. vol. 154; p. 1230.
McNiven, Alexander C., Langdon, N. D. Portable tray and truck. No. 955,187; Apr. 19; Sp. p. 3208; Gaz. vol. 153; p. 576.
McNulty, Charles. (See Nelson, Theodore C., assignor.)
McNulty, Harry B., East Cleveland, assignor, by mesne assignments, to The United States Phonograph Company, Cleveland, Ohio. Phonograph-reproducer. No. 972,013; Oct. 4; Sp. p. 1106; Gaz. vol. 159; p. 185.
McNulty, Thomas E., San Francisco, Cal. Ink-well. No. 958,668; May 17; Sp. p. 4887; Gaz. vol. 154; p. 802.
McNutt Non-Explosive Mfg. Co., The. (See McNutt, William H., assignor.)
McNutt, Oliver B., *et al.* (See Davis, William J., assignor.)
McNutt, William H., New York, N. Y. Spark-plug. No. 975,056; Nov. 8; Sp. p. 2222; Gaz. vol. 160; p. 361.
McNutt, William H., assignor, by mesne assignments, to The McNutt Non-Explosive Mfg. Co., New York, N. Y. Seam-lock for tubes. No. 964,048; July 12; Sp. p. 2256; Gaz. vol. 156; p. 371.
McNutt, William H., assignor, by mesne assignments, to The McNutt Non-Explosive Mfg. Co., New York, N. Y. Safety-tube and pop-off valve. No. 967,544; Aug. 16; Sp. p. 3649; Gaz. vol. 157; p. 627.
McPhee, Claud D., Arnprior, and J. Gillies, Braeside, Ontario, Canada. Scratch-headed fuse. No. 968,188; Aug. 23; Sp. p. 5028; Gaz. vol. 157; p. 866.
McPhee, Hugh, Tarrytown, N. Y. Making master-plates. No. 976,897; Nov. 29; Sp. p. 6199; Gaz. vol. 160; p. 1067.
McPheeters, George C. H., Palo Alto, Cal. Vacuum-wall hot-water tank. No. 970,095; Sept. 13; Sp. p. 2051; Gaz. vol. 158; p. 348.
McPherson, Arthur G., Highland Park, Ill. Steering-wheel. No. 963,240; July 5; Sp. p. 535; Gaz. vol. 156; p. 76.
McPherson, Edward S. (See Hayes, Frank E., assignor.)
McPherson, Frank G., Beaver Falls, Pa. Mat or tread. No. 945,575; Jan. 4; Sp. p. 1228; Gaz. vol. 150; p. 190.
McPherson, Frank G., Beaver Falls, Pa. Playing-cards. No. 977,117; Nov. 29; Sp. p. 6722; Gaz. vol. 160; p. 1144.
McPherson, Frank G., Beaver Falls, Pa. Mat or tread. No. 945,576; Jan. 4; Sp. p. 1230; Gaz. vol. 150; p. 190.
McPherson, George J., Salt Lake City, Utah, assignor to International Oil Gas Producer Company. Burner. No. 962,971; June 28; Sp. p. 5716; Gaz. vol. 155; p. 1002.
McPherson, George J., Salt Lake City, Utah, assignor to International Oil Gas Producer Company. Hydrocarbon-burner. No. 972,014; Oct. 4; Sp. p. 1109; Gaz. vol. 159; p. 186.
McPherson, John G., Whistler, Ala. Emergency-knuckle. No. 965,727; July 26; Sp. p. 5901; Gaz. vol. 156; p. 1003.
McPherson, William B., assignor of one-half to G. Borden, Los Angeles, Cal. Apparatus for electrical treatment of ores. No. 962,040; June 21; Sp. p. 3748; Gaz. vol. 155; p. 657.
McPherson, William E., Rensselaer, N. Y., assignor of seventy one-hundredths to himself, fifteen one-hundredths to J. M. Rodgers, and fifteen one-hundredths to J. Fletcher, Pittsburg, Pa. Duplex railway-hopper. No. 965,400; July 26; Sp. p. 5176; Gaz. vol. 156; p. 888.
McPhillips, Charles B., Suffern, N. Y. Forming castings. No. 970,096; Sept. 13; Sp. p. 2052; Gaz. vol. 158; p. 349.
McPike, Henry G., Jr. (See McPike and Harlow.)
McPike, John H., Alton, Ill. Corrugated-paper-board machine. No. 972,120; Oct. 4; Sp. p. 1304; Gaz. vol. 159; p. 221.

Alphabetical list of patentees—Continued.

McPike, John H. and H. G., Jr., and H. B. Harlow, Alton, Ill.; said Harlow and H. G. McPike, Jr., assignors to said John H. McPike. Corrugated-paper-board machine. No. 972,121; Oct. 4; Sp. p. 1306; Gaz. vol. 159; p. 221.

McQuarrie, James L., Oak Park, assignor to Western Electric Company, Chicago, Ill. Private-branch intercommunicating telephone system. No. 969,799; Sept. 13; Sp. p. 1405; Gaz. vol. 158; p. 246.

McQuarrie, James L., and E. B. Craft, New York, N. Y., assignors to Western Electric Company, Chicago, Ill. Selector. No. 949,836; Feb. 22; Sp. p. 4298; Gaz. vol. 151; p. 775.

McQuay, Louis E., and W. K. Norris, East St. Louis, Ill. Packing-ring. No. 948,518; Feb. 8; Sp. p. 1561; Gaz. vol. 151; p. 275.

McQueen, Elvie C., Oakland, Ill. Toy. No. 964,447; July 12; Sp. p. 3038; Gaz. vol. 156; p. 502.

McQueen, Frederick B. (See Barber and McQueen.)

McQuerry, James C., and A. L. Evrett, North Fortworth, Tex. Liquid-fuel burner. No. 976,898; Nov. 29; Sp. p. 6200; Gaz. vol. 160; p. 1067.

McQuillan, Owen, and E. D. Chaitken, Philadelphia, Pa. Car-fender. No. 962,041; June 21; Sp. p. 3749; Gaz. vol. 155; p. 658.

McQuinn, James S., Newcastle, Ind. Flour-bin. No. 948,703; Feb. 8; Sp. p. 1958; Gaz. vol. 151; p. 336.

McQuinn, James S., Newcastle, Ind. Molding-board. No. 951,785; Mar. 8; Sp. p. 2688; Gaz. vol. 152; p. 463.

McQuinn, James S., Newcastle, Ind. Kitchen-cabinet. No. 970,537; Sept.20; Sp. p. 2971; Gaz. vol. 158; p. 518.

McQuinn, James S., Newcastle, Ind. Memorandum-dial. No. 974,806; Nov. 8; Sp. p. 1645; Gaz. vol. 160; p. 276.

McQuiston, David P., Atoka, Tenn. Sash-holder. No. 968,589; Aug. 30; Sp. p. 5858; Gaz. vol. 157; p. 1033.

McQuown, Thomas H., Cambridge, Mass., assignor, by mesne assignments, to A. A. Kent, Philadelphia, Pa. Sparking device. No. 950,339; Feb. 22; Sp. p. 5423; Gaz. vol. 151; p. 951.

McQuown, Thomas H., Cambridge, assignor, by mesne assignments, to Monitor Manufacturing Company, Boston, Mass. Timer and distributer. No. 973,447; Oct. 18; Sp. p. 4257; Gaz. vol. 159; p. 725.

McReynolds, Everett, and P. S. Graham, Fennimore, Wis. Band-cutter and feeder for threshing-machines. No. 959,432; May 24; Sp. p. 6478; Gaz. vol. 154; p. 1085.

McShane, William J., St. John, New Brunswick, assignor to T. McAvity & Sons Limited, St. John, Canada. Semaphore. No. 966,350; Aug. 2; Sp. p. 1049; Gaz. vol. 157; p. 169.

McSherry, Charles, Pittsburg, Pa. Attachment for pneumatic hammers. No. 963,924; July 12; Sp. p. 1994; Gaz. vol. 156; p. 328.

McSherry, John A. (See Wilson, Stephen G., assignor.)

McStay, James, and E. F. Stevens, Cygnet, Ohio. Clutch-pulley. No. 960,599; June 7; Sp. p. 732; Gaz. vol. 155; p. 121.

McSweeney, Edward E., and H. E. Seeley, Springfield, Mo. Eraser. No. 948,822; Feb. 8; Sp. p. 2218; Gaz. vol. 151; p. 375.

McTammany Ballot Company. (See McTammany, John, assignor.)

McTammany, John, Worcester, Mass. Voting-machine. No. 960,034; May 31; Sp. p. 7851; Gaz. vol. 154; p. 1318.

McTammany, John, Spencer, Mass., assignor, by mesne assignments, to McTammany Ballot Company, Portland, Me. Voting-machine. No. 952,464; Mar. 22; Sp. p. 4038; Gaz. vol. 152; p. 747.

McVeety, Charles, Plainfield, N. J. Ventilator. No. 969,554; Sept. 6; Sp. p. 870; Gaz. vol. 158; p. 137.

McVeigh, John, assignor of one-half to D. A. Dougherty, Philadelphia, Pa. Derrick. No. 957,239; May 10; Sp. p. 1602; Gaz. vol. 154; p. 283.

McVeity, John, *et al.* (See Levey, Thomas J., assignor.)

McVicker, Walter J., assignor to Alma Manufacturing Company, Alma, Mich. Controlling mechanism for explosive-engines. No. 951,833; Mar. 15; Sp. p. 2785; Gaz. vol. 152; p. 509.

McVicker, Walter J., assignor to Alma Manufacturing Company, Alma, Mich. Valve-gear for explosive-engines. (Reissue.) No. 13,099; Apr. 5; Sp. p. 1516; Gaz. vol. 153; p. 251.

McVitty, Richard A., Mullan, Idaho. Making fertilizer. No. 950,455; Feb. 22; Sp. p. 5625; Gaz. vol. 151; p. 987.

McWane, James R., Birmingham, Ala. Machine for making sand cores for pipes and other hollow castings. No. 954,876; Apr. 12; Sp. p. 2593; Gaz. vol. 153; p. 441.

McWane, James R., Birmingham, Ala. Apparatus for making pipes. No. 955,423; Apr. 19; Sp. p. 3731; Gaz. vol. 153; p. 655.

McWane, James R., Birmingham, Ala. Pipe-molding flask. No. 961,367; June 14; Sp. p. 2319; Gaz. vol. 155; p. 410.

McWane, James R., Birmingham, Ala. Pipe-pit. No. 967,038; Aug. 9; Sp. p. 2604; Gaz. vol. 157; p. 427.

McWane, James R., Birmingham, Ala. Core-bar-pulling and core-cutting apparatus. No. 967,039; Aug. 9; Sp. p. 2606; Gaz. vol. 157; p. 428.

McWane, James R., Birmingham, Ala. Core-bar-pulling and core-cutting apparatus. No. 967,041; Aug. 9; Sp. p. 2615; Gaz. vol. 157; p. 428.

McWane, James R., and W. D. Moore, Birmingham, Ala. Portable core-support. No. 967,040; Aug. 9; Sp. p. 2611; Gaz. vol. 157; p. 428.

McWane, Robert C., Ridgewood, N. J. Culvert-pipe. No. 960,379; June 7; Sp. p. 290; Gaz. vol. 155; p. 48.

McWatty, William A., Proctor, Minn., and A. A. Sinclair, Superior, Wis. Brake-ratchet shield for railway-cars. No. 950,266; Feb. 22; Sp. p. 5282; Gaz. vol. 151; p. 926.

McWhorter, Allen, assignor to McWhorter Manufacturing Company, Riverton, N. J. Potato-planter. No. 959,154; May 24; Sp. p. 5942; Gaz. vol. 154; p. 995.

McWhorter Manufacturing Company. (See McWhorter, Allen, assignor.)

McWilliams, Thomas J., Timpson, Tex. Harrow. No. 976,387; Nov. 22; Sp. p. 5109; Gaz. vol. 160; p. 867.

Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-burner. No. 959,244; May 24; Sp. p. 6133; Gaz. vol. 154; p. 1024.

Meacham, James, Los Angeles, Cal. Registering-triangle. No. 952,920; Mar. 22; Sp. p. 5028; Gaz. vol. 152; p. 903.

Meacham, Larnéd E. (See Meacham, William M. and L. E.)

Meacham, William H., *et al.* (See Brown, Mark A., assignor.)

Meacham, William M. and L. E., Oak Park, Ill. Hydroplane boat. No. 955,343; Apr. 19; Sp. p. 3559; Gaz. vol. 153; p. 629.

Mead, Albert G., Somerville, Mass. Press. No. 954,449; Apr. 12; Sp. p. 1587; Gaz. vol. 153; p. 291.

Mead, Alfred E. (See Peacock, Albert F., assignor.)

Mead, George A., Mansfield, Ohio. Catenary suspension for trolley-wires, &c. No. 945,972; Jan. 11; Sp. p. 2149; Gaz. vol. 150; p. 358.

Mead, George A., Mansfield, Ohio. Suspension device for trolley-wires and the like. No. 948,789; Feb. 8; Sp. p. 2147; Gaz. vol. 151; p. 365.

Mead, Henry C., Arlington, S. D. Railway-switch. No. 977,747; Dec. 6; Sp. p. 719; Gaz. vol. 161; p. 113.

Mead, Henry H. (See Farrell, Richard, assignor.)

Mead, Joseph S., Milwaukee, Wis. Muffler. No. 963,235; July 5; Sp. p. 526; Gaz. vol. 156; p. 74.

Meade, Carl F., Cleveland, Ohio. Siphon. No. 958,415; May 17; Sp. p. 4395; Gaz. vol. 154; p. 718.

Meade, David P., White Post, Va. Coin-operated telephone apparatus. No. 978,774; Dec. 13; Sp. p. 2928; Gaz. vol. 161; p. 495.

Meade, James. (See Sydeman and Meade.)

Meahl, Philip J., Bayonne, N. J. Extension-spool. No. 952,708; Mar. 22; Sp. p. 4591; Gaz. vol. 152; p. 832.

Meahl, Philip J., Bayonne, N. J. Paper-feed mechanism. No. 969,295; Sept. 6; Sp. p. 302; Gaz. vol. 158; p. 49.

Meahl, Philip J., Bayonne, N. J. Cigarette-machine. No. 978,919; Dec. 20; Sp. p. 3215; Gaz. vol. 161; p. 571.

Meals, Charles A. (See Stine and Meals.)

Means, Eugene D., Towanda, Pa. Accessory for internal-combustion engines. No. 963,612; July 5; Sp. p. 1307; Gaz. vol. 156; p. 201.

Mears, Bernard B., Baltimore, Md. Spring-check. No. 950,773; Mar. 1; Sp. p. 678; Gaz. vol. 152; p. 108.

Meattauer, Frank, assignor of one-half to W. Slayton, Los Angeles, Cal. Automobile-fender. No. 963,306; July 5; Sp. p. 690; Gaz. vol. 156; p. 98.

Mebane, James A., South Boston, Va. Switch for incandescent lamps. No. 959,572; May 31; Sp. p. 6817; Gaz. vol. 154; p. 1160.

Mechanical Construction Company, The. (See Hanna, William T., assignor.)

Mechanical Devices Company. (See Walters, Julius W., assignor.)

Mechanical Dust Suction Company. (See Moorhead, Albert E., assignor.) (Reissue.)

Mechanical & Electrical Manufacturing Company. (See McBean, George B., assignor.)

Mechlenburg, Hermann, assignor to Nitritfabrik Aktiengesellschaft, Köpenick, near Berlin, Germany. Preparing tanniferous material for extraction. No. 979,080; Dec. 20; Sp. p. 3591; Gaz. vol. 161; p. 926.

Mechling, Harvey F., Pittsburg, Pa. Smoke-bell support. No. 956,393; Apr. 26; Sp. p. 5865; Gaz. vol. 153; p. 1020.

Meckbach, Ernst, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow lake. No. 970,072; Sept. 13; Sp. p. 2010; Gaz. vol. 158; p. 341.

Meckbach, Ernst, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. New yellow lake. No. 970,073; Sept. 13; Sp. p. 2011; Gaz. vol. 158; p. 341.

Meckelburg, Eduard, Charlottenburg, assignor to Siemens-Schuckert-Werke G. M. B. H., Berlin, Germany. Towing apparatus. No. 960,663; June 7; Sp. p. 865; Gaz. vol. 155; p. 143.

Mecklan, Walter N., assignor of one-half to J. P. Rowe, Memphis, Tenn. Pulley. No. 979,873; Dec. 27; Sp. p. 5326; Gaz. vol. 161; p. 921.

Medcalf, William M., assignor of one-half to T. D. Snipes, May, Tex. Moldboard for cultivator-shovels. No. 962,909; June 28; Sp. p. 5611; Gaz. vol. 155; p. 983.

Medendorp, Cornelis, Grand Rapids, Mich. Pad-holder. No. 953,631; Mar. 29; Sp. p. 6563; Gaz. vol. 152; p. 1172.

Alphabetical list of patentees—Continued.

Mederer, Max, Bloemfontein, Orange River Colony. Chilling and preserving chamber. No. 953,343; Mar. 29; Sp. p. 5945; Gaz. vol. 152; p. 1072.
Medved, Paul, assignor of one-half to T. Medved, Milwaukee, Wis. Machine for cutting leather strips. No. 973,448; Oct. 18; Sp. p. 4260; Gaz. vol. 159; p. 726.
Medved, Thomas. (See Medved, Paul, assignor.)
Meech, Alfred H., Chatham, N. Y. Safety device for elevators. No. 962,037; June 21; Sp. p. 3739; Gaz. vol. 155; p. 656.
Meehan, David C., Columbus, Ohio. Wooden core and making the same. No. 974,984; Nov. 8; Sp. p. 2070; Gaz. vol. 160; p. 338.
Meehan, Patrick, Lowellville, Ohio. Gas-cleaner. No. 955,651; Apr. 19; Sp. p. 4235; Gaz. vol. 153; p. 734.
Meek, Charles W., Los Angeles, Cal. Liquid-meter. No. 950,752; Mar. 1; Sp. p. 626; Gaz. vol. 152; p. 100.
Meek Company, The. (See Kristofek, Frank J., assignor.)
Meek, Don, Paonia, Colo. Wagon-brake. No. 961,248; June 14; Sp. p. 2041; Gaz. vol. 155; p. 368.
Meek, George B., New York, N. Y. Portable-reel gas-oven. No. 961,512; June 14; Sp. p. 2622; Gaz. vol. 155; p. 457.
Meek, R B, Keokuk, Iowa. Clothes-rack. No. 948,593; Feb. 8; Sp. p. 1722; Gaz. vol. 151; p. 298.
Meeker, Allen C., Madrid, N. Y. Insectifuge-vaporizer. No. 965,392; July 26; Sp. p. 5161; Gaz. vol. 156; p. 885.
Meeker, De Witt C., deceased, Carthage, Mo.; M. A. Meeker, administratrix. Universal square. No. 965,312; July 26; Sp. p. 4992; Gaz. vol. 156; p. 859.
Meeker, Edward P., Jersey City, N. J. Game apparatus. No. 968,249; Aug. 23; Sp. p. 5155; Gaz. vol. 157; p. 888.
Meeker Grip Nut Company. (See Meeker, Samuel G., assignor.)
Meeker, Mary A., administratrix. (See Meeker, De Witt C.)
Meeker, Samuel G., New York, N. Y., assignor to Meeker Grip Nut Company. Lock-nut. No. 961,249; June 14; Sp. p. 2042; Gaz. vol. 155; p. 368.
Meeker, William B. (See Ehlen and Rudy, assignors.)
Meeker, William P., Maplewood, N. J. Glass tile. No. 972,461; Oct. 11; Sp. p. 2040; Gaz. vol. 159; p. 357.
Meeks, Frederick P., Ardmore, Pa. Pruning-gage. No. 975,057; Nov. 8; Sp. p. 2225; Gaz. vol. 160; p. 362.
Meem, James C., Brooklyn, assignor to John Simmons Company, New York, N. Y. Hot-water heater. No. 969,714; Sept. 6; Sp. p. 1181; Gaz. vol. 158; p. 192.
Meer, Gustav ter, Hanover, Germany. Centrifugal machine. No. 973,121; Oct. 18; Sp. p. 3538; Gaz. vol. 159; p. 612.
Meertens, Henry J. (See Reyntiens and Meertens.)
Meeting, Peter. (See Bradford and Meeting.)
Mefford, Fred E. (See Hass and Mefford.)
Mégevet, C. Jules. (See Weber, Paul, assignor.)
Meggers, George. (See Lorenzen, Peter A., assignor.)
Meggers, John, Charlotte, Iowa. Concrete-mixer. No. 974,688; Nov. 1; Sp. p. 1385; Gaz. vol. 160; p. 215.
Megget, William M., assignor of one-third to E. N. Thomas, Greenville, Miss. Faucet for soda-fountains. No. 954,320; Apr. 5; Sp. p. 1331; Gaz. vol. 153; p. 220.
Megill, Edward L., New York, N. Y. Feed-gage for printing-presses. No. 946,803; Jan. 18; Sp. p. 4020; Gaz. vol. 150; p. 666.
Mehl, Walter B., Waltham, Mass., assignor to Philadelphia Watch Case Company, Riverside, N. J. Watch-movement. No. 946,385; Jan. 11; Sp. p. 3113; Gaz. vol. 150; p. 500.
Mehl, Walter B., Waltham, Mass., assignor to Philadelphia Watch Case Company, Riverside, N. J. Cannon-pinion shaft. No. 951,139; Mar. 8; Sp. p. 1374; Gaz. vol. 152; p. 249.
Mehl, Walter B., Waltham, Mass., assignor, by mesne assignments, to The Keystone Watch Case Company, Philadelphia, Pa. End-stone cap for watch-movements. No. 978,612; Dec. 13; Sp. p. 2606; Gaz. vol. 161; p. 444.
Mehl, Walter B., Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Watch-barrel. No. 978,613; Dec. 13; Sp. p. 2607; Gaz. vol. 161; p. 444.
Mehl, Walter B., Newtonville, assignor, by mesne assignments, to Library Bureau, Boston, Mass. Catalogue-card. No. 968,065; Aug. 23; Sp. p. 4741; Gaz. vol. 157; p. 825.
Mehl, Walter B., Newton, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Watch-movement. No. 977,320; Nov. 29; Sp. p. 7128; Gaz. vol. 160; p. 1213.
Mehl, Walter B., Newton, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Watch-movement. No. 977,321; Nov. 29; Sp. p. 7129; Gaz. vol. 160; p. 1214.
Mehl, Walter B., and W. H. Ebelhare, Waltham, Mass., assignors to Philadelphia Watch Case Company, Riverside, N. J. Watch. No. 946,906; Jan. 18; Sp. p. 4275; Gaz. vol. 150; p. 702.
Mehler, Charles C., Ambler, Pa. Cultivator. No. 975,058; Nov. 8; Sp. p. 2226; Gaz. vol. 160; p. 362.
Mehlhose, Wilhelm, Charlottenburg, Germany. Electric ventilator. No. 955,089; Apr. 12; Sp. p. 3009; Gaz. vol. 153; p. 510.
Mehner, Hermann, Velten, Germany. Making phosphatic slag and iron. No. 977,819; Dec. 6; Sp. p. 868; Gaz. vol. 161; p. 137.
Meier, Albert, and H. Dumelin, West Hoboken, N. J. Apparatus for packing and unpacking stuffing-boxes. No. 974,583; Nov. 1; Sp. p. 1164; Gaz. vol. 160; p. 176.
Meier, Albert J., Glendale, Mo. Machine for and process of forming linings for storage-battery jars. No. 962,714; June 28; Sp. p. 5238; Gaz. vol. 155; p. 914.
Meier, Albert J., Glendale, Mo. Machine for casting lead pots and buckles and loading said buckles in said pots. No. 963,164; July 5; Sp. p. 344; Gaz. vol. 156; p. 49.
Meier, Albert J., Glendale, Mo., assignor to Unit Construction Company, Wilmington, Del. Concrete construction. No. 961,630; June 14; Sp. p. 2873; Gaz. vol. 155; p. 497.
Meier, Charles, and G. Langen, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Belt-gearing. No. 973,801; Oct. 25; Sp. p. 5009; Gaz. vol. 159; p. 871.
Meier Dental Manufacturing Company, The. (See Elbrecht, Oscar H., assignor.)
Meier, Edward C. (See Wood and Meier.)
Meier, Edward D., New York, N. Y. Indicator for internal-combustion engines. No. 977,419; Nov. 29; Sp. p. 7381; Gaz. vol. 160; p. 1248.
Meier, Frederick A., Norfolk Downs, Mass., assignor to National Wafer Company. Lozenge-making machine. No. 963,916; July 12; Sp. p. 1979; Gaz. vol. 156; p. 325.
Meiers, Michael, Sheffield, Ala. Belt-tightener. No. 954,001; Apr. 5; Sp. p. 633; Gaz. vol. 153; p. 113.
Meigs, John F., and H. G. Jakobsson, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Training and elevating mechanism for guns. No. 958,515; May 17; Sp. p. 4593; Gaz. vol. 154; p. 754.
Meigs, John F., and S. A. S. Hammar, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Firing mechanism for guns. No. 958,660; May 17; Sp. p. 4869; Gaz. vol. 154; p. 800.
Meigs, John F., and S. A. S. Hammar, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Training and elevating mechanism for guns. No. 964,927; July 19; Sp. p. 4203; Gaz. vol. 156; p. 701.
Meikel, Charles W. (See Bright, Martin C., assignor.)
Meikle, John, Springfield, Ill. Hitching and releasing device. No. 970,936; Sept. 20; Sp. p. 3835; Gaz. vol. 158; p. 654.
Meilicke, Carl A., Hanley, Saskatchewan, Canada. Calculating-machine. No. 961,631; June 14; Sp. p. 2875; Gaz. vol. 155; p. 497.
Meilink, Charles F., assignor to The Meilink Manufacturing Company, Toledo, Ohio. Wall-safe. No. 960,981; June 7; Sp. p. 1485; Gaz. vol. 155; p. 250.
Meilink, Charles F., and W. H. Reynolds, assignors to The Meilink Manufacturing Company, Toledo, Ohio. Wall-safe. No. 960,982; June 7; Sp. p. 1486; Gaz. vol. 155; p. 250.
Meilink Manufacturing Company, The. (See Meilink, Charles F., assignor.)
Meilink Manufacturing Company, The. (See Meilink and Reynolds, assignors.)
Meilink Manufacturing Company, The. (See Reynolds, William H., assignor.)
Meinecke, Christian W. (See Hogan and Meinecke.)
Meinecke, Christian W., Jersey City, N. J., assignor to Whitall Tatum Company, New York, N. Y. Sputum-cup and holder therefor. No. 963,454; July 5; Sp. p. 988; Gaz. vol. 156; p. 148.
Meinecke & Co. (See Hogan, Daniel, assignor.)
Meinel, Frederick E. (See Servatius and Meinel.)
Meinelt, Paul, Eibenstock, and Heinrich Rehm, Schneeberg, Germany. Embroidering-machine. No. 947,352; Jan. 25; Sp. p. 5226; Gaz. vol. 150; p. 880.
Meirowsky, Max, Cologne-Ehrenfeld, Germany. Manufacture of insulating-tubes. No. 966,460; Aug. 9; Sp. p. 1298; Gaz. vol. 157; p. 233.
Meisel, Francis, Dorchester, Mass. Machine for making box-blanks. No. 958,661; May 17; Sp. p. 4872; Gaz. vol. 154; p. 800.
Meisel, Francis, Dorchester, Mass. Printing-press. No. 958,662; May 17; Sp. p. 4876; Gaz. vol. 154; p. 800.
Meisel, Francis, assignor to Meisel Press and Manufacturing Company, Boston, Mass. Printing-press. No. 958,268; May 17; Sp. p. 3950; Gaz. vol. 154; p. 665.
Meisel, Francis, assignor to Meisel Press & Mfg. Co., Boston, Mass. Slitting and rewinding machine. No. 972,891; Oct. 18; Sp. p. 3025; Gaz. vol. 159; p. 534.
Meisel Press & Mfg. Co. (See Meisel, Francis, assignor.)
Meisels, Adolf, *et al.* (See Müller, David, assignor.)
Meiser, George H., Chicago, Ill., assignor to Excelsior Supply Company. Motor-cycle-belt tightener. No. 948,181; Feb. 1; Sp. p. 822; Gaz. vol. 151; p. 135.
Meisner, John G., Chicago, Ill. Elevator. No. 970,730; Sept. 20; Sp. p. 3404; Gaz. vol. 158; p. 584.
Meisselbach-Catucci Manufacturing Company, The. (See Catucci, Pliny, assignor.)
Meissner, Fritz, New York, N. Y. Shears and scissors. No. 975,059; Nov. 8; Sp. p. 2227; Gaz. vol. 160; p. 363.
Meissner, Otto W. (See Yost, Winfield H., assignor.)

Alphabetical list of patentees—Continued.

Meissner, Otto W., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-door-operating mechanism. No. 951,884; Mar. 15; Sp. p. 2905; Gaz. vol. 152; p. 526.
Meissner, Scott, Johnstown, Pa. Fusing process. No. 947,835; Feb. 1; Sp. p. 97; Gaz. vol. 151; p. 20.
Meister, Otto. (See Schreiber and Meister.)
Meitzler, Joseph W., *et al.* (See Walter, Harrison B., assignor.)
Meixell, John W., assignor to Standard Ventilator Company, Lewisburg, Pa. Chimney-top. No. 964,040; July 12; Sp. p. 2233; Gaz. vol. 156; p. 368.
Meixner, Theodore, Winchester, Wash. Fruit-bucket. No. 956,715; May 3; Sp. p. 464; Gaz. vol. 154; p. 74.
Mèlançon, Nichols L., New Orleans, La. Card system No. 948,235; Feb. 1; Sp. p. 931; Gaz. vol. 151; p. 153.
Meland, Rasmus J., and T. O. Moe, Lodi, Wis. Marking and trimming device. No. 971,460; Sept. 27; Sp. p. 4878; Gaz. vol. 158; p. 854.
Melander, Carl F., Minneapolis, Minn. Extensible bedstead. No. 977,671; Dec. 6; Sp. p. 568; Gaz. vol. 161; p. 86.
Melander, Peter H., Tacoma, Wash. Elevator apparatus. No. 959,778; May 31; Sp. p. 7231; Gaz. vol. 154; p. 1227.
Melber, Frederick, Ross township, Allegheny county, Pa. Concrete construction. No. 954,983; Apr. 12; Sp. p. 2814; Gaz. vol. 153; p. 477.
Melby, Johannes, Backus, Minn. Sleigh-runner. No. 951,692; Mar. 8; Sp. p. 2482; Gaz. vol. 152; p. 431.
Melchert, August L., assignor of one-half to W. F. Greenleaf, Santa Ana, Cal. Pipe-wrench. No. 970,731; Sept. 20; Sp. p. 3406; Gaz. vol. 158; p. 584.
Melchert, Charles A. (See Hamacher and Melchert.)
Melchior, Edward, Chicago, Ill. Hydraulic chair. No. 974,289; Nov. 1; Sp. p. 476; Gaz. vol. 160; p. 70.
Melchior, Edward, Chicago, Ill. Hydraulic chair. No. 975,705; Nov. 15; Sp. p. 3617; Gaz. vol. 160; p. 610.
Meldau, Charles, New York, N. Y. Hydroplane motor-boat. No. 976,588; Nov. 22; Sp. p. 5542; Gaz. vol. 160; p. 937.
Melen, Asher P., Buffalo, N. Y. Adjustable trousers. No. 959,952; May 31; Sp. p. 7643; Gaz. vol. 154; p. 1289.
Méline, Edmond V., Epinal, France. Machine for pulling or raising potatoes by ejection. No. 947,451; Jan. 25; Sp. p. 5447; Gaz. vol. 150; p. 911.
Melish, Thomas G., assignor to The Bromwell Brush & Wire Goods Company, Cincinnati, Ohio. Wire structure. No. 950,236; Feb. 22; Sp. p. 5224; Gaz. vol. 151; p. 916.
Melish, Thomas G., Cincinnati, and M. W. Gatch, Mansfield, assignors to The Bromwell Brush & Wire Goods Company, Cincinnati, Ohio. Wire structure. No. 957,619; May 10; Sp. p. 2377; Gaz. vol. 154; p. 412.
Melius, Lyman B., New York, N. Y. Safety guard or support. No. 959,368; May 24; Sp. p. 6371; Gaz. vol. 154; p. 1065.
Mell, Tod J., assignor to The Republic Rubber Company, Youngstown, Ohio. Separable rim for vehicle-wheels. No. 960,983; June 7; Sp. p. 1488; Gaz. vol. 155; p. 250.
Mellen, William S., assignor to Mound City Paint & Color Company, St. Louis, Mo. Package. No. 963,719; July 5; Sp. p. 1517; Gaz. vol. 156; p. 236.
Mellin, Carl J., Schenectady, N. Y. Articulated locomotive. No. 977,893; Dec. 6; Sp. p. 1028; Gaz. vol. 161; p. 163.
Mellin, Carl J., Schenectady, N. Y. Articulated locomotive. No. 978,186; Dec. 13; Sp. p. 1672; Gaz. vol. 161; p. 294.
Mellin, Carl J., Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y. Feed-water-heating appliance. No. 960,364; June 7; Sp. p. 260; Gaz. vol. 155; p. 44.
Mellin, Carl J., and J. J. Jones, Schenectady, N. Y. Articulated compound locomotive. No. 958,516; May 17; Sp. p. 4596; Gaz. vol. 154; p. 754.
Mellin, Carl J., and W. L. Reid, Schenectady, N. Y. Steam-pipes for articulated locomotives. No. 978,323; Dec. 13; Sp. p. 1964; Gaz. vol. 161; p. 343.
Mellinkoff, Louis, Pittsburg, Pa. Gas-burner. No. 968,176; Aug. 23; Sp. p. 5003; Gaz. vol. 157; p. 863.
Mellis, William H. L., Peterborough, Ontario, Canada. Automatic regulating device for breakers, spreaders, or the like. No. 959,148; May 24; Sp. p. 5928; Gaz. vol. 154; p. 992.
Mellor, Lewis E., and F. W. Cole, Guilford, Me. Picking mechanism. No. 976,673; Nov. 22; Sp. p. 5706; Gaz. vol. 160; p. 965.
Mellott, Judson R., Tulia, Tex. Door-fastener. No. 967,948; Aug. 23; Sp. p. 4463; Gaz. vol. 157; p. 785.
Mellown, Robert H., Coaling, Ala. Lumber-register. No. 949,127; Feb. 15; Sp. p. 2842; Gaz. vol. 151; p. 502.
Meloen, Ramond E., Kewanee, Ill. Cultivator. No. 975,975; Nov. 15; Sp. p. 4154; Gaz. vol. 160; p. 703.
Meloon, Jonathan C., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Clamping mechanism. No. 971,771; Oct. 4; Sp. p. 545; Gaz. vol. 159; p. 95.
Melson, William R., assignor of one-half to W. D. Perry, Mamie, N. C. Vine-cutting attachment for plows. No. 970,379; Sept. 13; Sp. p. 2631; Gaz. vol. 158; p. 443.
Melton, Edward R., Washington, D. C. Cooling apparatus for inking-rollers. No. 973,122; Oct. 18; Sp. p. 3539; Gaz. vol. 159; p. 612.
Melton, Ode E., Spanish Fort, Tex. Double-dasher churn. No. 968,675; Aug. 30; Sp. p. 6072; Gaz. vol. 157; p. 1064.
Melvill, Edward H. V., Johannesburg, Transvaal. Instrument for surveying and like purposes. No. 979,531; Dec. 27; Sp. p. 4556; Gaz. vol. 161; p. 804.
Melville, George W., and J. H. Macalpine, Philadelphia, Pa. Reduction-gearing. No. 946,455; Jan. 11; Sp. p. 3258; Gaz. vol. 150; p. 524.
Melville, George W., and J. H. Macalpine, Philadelphia, Pa. Reduction-gearing. No. 946,456; Jan. 11; Sp. p. 3267; Gaz. vol. 150; p. 525.
Melville, John, assignor of one-fourth to P. V. Goodloe, Angels Camp, Cal. Steam-turbine. No. 956,124; Apr. 26; Sp. p. 5281; Gaz. vol. 153; p. 928.
Melville, Joseph H., New York, N. Y. Disinfectant-distributer. No. 960,984; June 7; Sp. p. 1489; Gaz. vol. 155; p. 250.
Melvin, Charles H., assignor to Deere & Company, Moline, Ill. Reversible-disk plow. No. 979,019; Dec. 20; Sp. p. 3457; Gaz. vol. 161; p. 607.
Melvin, Mark G., Scranton, Pa. Lubricator. No. 955,652; Apr. 19; Sp. p. 4239; Gaz. vol. 153; p. 734.
Melvin, Mark G., assignor of three-eighths to J. D. Stevens and three-eighths to Sterling Sales Company, Scranton, Pa. Water-filter. No. 977,209; Nov. 29; Sp. p. 6927; Gaz. vol. 160; p. 1177.
Melzer, John, and H. J. Rademacher, Milwaukee, Wis. Canopy-casket. No. 965,643; July 26; Sp. p. 5731; Gaz. vol. 156; p. 974.
Ménager, André. (See Baillot and Ménager.)
Menard, John B., Benton, Ark. Lap-link. No. 951,538; Mar. 8; Sp. p. 2188; Gaz. vol. 152; p. 380.
Menck & Hambrock, Gesellschaft mit Beschränkter Haftung. (See Menck, Hans F., assignor.)
Menck, Hans F., Gross-Flottbeck, assignor to Menck & Hambrock, Gesellschaft mit Beschränkter Haftung, Altona-Ottensen, Germany. Excavator. No. 957,234; May 10; Sp. p. 1591; Gaz. vol. 154; p. 281.
Mendel, Solomon W., Braddock, Pa. Blacking box and brush case. No. 950,940; Mar. 1; Sp. p. 1002; Gaz. vol. 152; p. 160.
Mendell, Charles, Moran, Kans. Hydrocarbon vaporizer and burner. No. 975,557; Nov. 15; Sp. p. 3304; Gaz. vol. 160; p. 561.
Mendenhall, Frank E., Tilden, Nebr. Roundabout amusement apparatus. No. 965,644; July 26; Sp. p. 5732; Gaz. vol. 156; p. 975.
Mendenhall, Hiram. (See Stocking and Mendenhall.)
Mendenhall, Hiram, and R. G. Ping, Audubon, Iowa. Ironing-board cabinet. No. 950,397; Feb. 22; Sp. p. 5525; Gaz. vol. 151; p. 968.
Mendenhall, M. M. (See Inglis, Edward, assignor.)
Mendenhall, Walter S., Cincinnati, Ohio, and C. E. Stebbins, Covington, Ky., assignors to The Samuel C. Tatum Company, Cincinnati, Ohio. Ledger-binder. No. 948,578; Feb. 8; Sp. p. 1684; Gaz. vol. 151; p. 293.
Mendizábal, Carlos, Saragossa, Spain. Rotary pump. No. 953,539; Mar. 29; Sp. p. 6378; Gaz. vol. 152; p. 1142.
Menear, Morgan D., and C. O. Shay, Independence, W. Va. Cut-off valve. No. 971,295; Sept. 27; Sp. p. 4575; Gaz. vol. 158; p. 801.
Menendian, Gedeon A., Cleveland, Ohio. Loom. No. 954,450; Apr. 12; Sp. p. 1589; Gaz. vol. 153; p. 292.
Menge, Sidney L., New Orleans, La. Rotary pump. No. 950,398; Feb. 22; Sp. p. 5527; Gaz. vol. 151; p. 968.
Mengeler, Albert M. D., Elgin, Ill. Ladder. No. 953,097; Mar. 29; Sp. p. 5416; Gaz. vol. 152; p. 992.
Mengis, Joseph I., Vicksburg, Miss. Adjustable journal-box for rock-shafts. No. 962,447; June 28; Sp. p. 4660; Gaz. vol. 155; p. 822.
Menly, Herman. (See Pierson, Marian B., assignor.)
Menne, Ernst, Creuzthal, Germany. Safe and vault protector. No. 948,929; Feb. 8; Sp. p. 2408; Gaz. vol. 151; p. 411.
Mennenga, Onko J., Renville, Minn. Sled. No. 948,866; Feb. 8; Sp. p. 2289; Gaz. vol. 151; p. 389.
Meno, Frederick J., Detroit, assignor to J. E. Meno, Port Huron, Mich. Message-carrier for boats. No. 980,176; Dec. 27; Sp. p. 6002; Gaz. vol. 161; p. 1021.
Meno, Joseph E. (See Meno, Frederick J., assignor.)
Mensen, John, Remsen, Iowa. Separator. No. 978,920; Dec. 20; Sp. p. 3216; Gaz. vol. 161; p. 571.
Mentzer, John P., *et al.*, trustees. (See Davis, Charles L., assignor.)
Menzel, Heinrich, Berlin, Germany. Device for testing the structural qualities of the soil. No. 965,209; July 26; Sp. p. 4766; Gaz. vol. 156; p. 824.
Menzenhauer, Frederick, Jersey City, N. J. Stringed musical instrument. No. 970,845; Sept. 20; Sp. p. 3663; Gaz. vol. 158; p. 626.
Menzl, John, and B. L. Schwartz, Dayton, Ohio. Drip-pan for refrigerators. No. 949,398; Feb. 15; Sp. p. 3413; Gaz. vol. 151; p. 596.
Menzl, John B., Dayton, Ohio. Rake. No. 962,576; June 28; Sp. p. 4953; Gaz. vol. 155; p. 867.
Mercer, Angus R., Traverse City, Mich. Ceiling-ladder. No. 950,182; Feb. 22; Sp. p. 5106; Gaz. vol. 151; p. 896.
Mercer, Angus R., Traverse City, Mich. Fruit-picker's platform. No. 967,803; Aug. 16; Sp. p. 4163; Gaz. vol. 157; p. 713.

Alphabetical list of patentees—Continued.

Mercer, Camilla H., Vinton, Cal. Portable table. No. 947,115; Jan. 18; Sp. p. 4662; Gaz. vol. 150; p. 770.
Mercer, Charles, Muskogee, Okla. Back-spacing device for type-writers. No. 966,035; Aug. 2; Sp. p. 414; Gaz. vol. 157; p. 66.
Mercer, Charles, assignor to National Fence & Gate Co., Tuscola, Ill. Wire-fence tie. No. 979,683; Dec. 27; Sp. p. 4889; Gaz. vol. 161; p. 857.
Mercer, George M., Columbus, Ohio. Door for bank-safes. No. 963,236; July 5; Sp. p. 528; Gaz. vol. 156; p. 74.
Mercer, Henry H., assignor to Sullivan Machinery Company, Claremont, N. H. Pressure-fluid engine. No. 974,413; Nov. 1; Sp. p. 748; Gaz. vol. 160; p. 114.
Mercer, Robert F., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 948,182; Feb. 1; Sp. p. 824; Gaz. vol. 151; p. 135.
Mercer, William, Gilliam, La. Combined rake and stalk-cutter. No. 963,455; July 5; Sp. p. 988; Gaz. vol. 156; p. 148.
Mercey, Nettie T., Cleburne, Tex. Wrap. No. 965,921; Aug. 2; Sp. p. 153; Gaz. vol. 157; p. 26.
Merchant, Isaac T., Adams, Nebr. Poultry-roost. No. 961,874; June 21; Sp. p. 3407; Gaz. vol. 155; p. 602.
Mercié, Henri A. (See Benét and Mercié.)
Merck, Niels T. (See Littman and Lackie, assignors.)
Merckens, John, and A. J. Herrick, assignors to J. E. Plew, Chicago, Ill. Call-register for telephones. No. 953,344; Mar. 29; Sp. p. 5948; Gaz. vol. 152; p. 1073.
Merden, Harry G. (See Wood and Merden.)
Meredith, Byron W., and O. Wildman, Morrisville, Pa. Tire. No. 945,470; Jan. 4; Sp. p. 991; Gaz. vol. 150; p. 156.
Meredith, Charles A., St. Louis, Mo. Vehicle-spring. No. 970,527; Sept. 20; Sp. p. 2956; Gaz. vol. 158; p. 515.
Meredith, Elliott B., Forest Depot, Va. Portable combination hammock and tent. No. 967,949; Aug. 23; Sp. p. 4464; Gaz. vol. 157; p. 785.
Meredith, James G., Lynchburg, Va. Electrical switching device. No. 969,646; Sept. 6; Sp. p. 1051; Gaz. vol. 158; p. 169.
Mergenthaler, Eugene G., Baltimore, Md. Safety-razor. No. 973,533; Oct. 25; Sp. p. 4454; Gaz. vol. 159; p. 778.
Mergenthaler Linotype Company. (See Bedell, Richard M., assignor.)
Mergenthaler Linotype Company. (See Bertram, William E., assignor.)
Mergenthaler Linotype Company. (See Clark, Robert G., assignor.)
Mergenthaler Linotype Company. (See Dodge, Philip T., assignor.)
Mergenthaler Linotype Company. (See Elliott, William E., assignor.)
Mergenthaler Linotype Company. (See Hartley, George D., assignor.)
Mergenthaler Linotype Company. (See Homans, Thomas S., assignor.)
Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
Mergenthaler Linotype Company. (See McNamara, James, assignor.)
Mergenthaler Linotype Company. (See Mercer, Robert F., assignor.)
Mergenthaler Linotype Company. (See Middleton, Winton G., assignor.)
Mergenthaler Linotype Company. (See Muehleisen, Carl, assignor.)
Mergenthaler Linotype Company. (See Muehleisen and Albrecht, assignors.)
Mergenthaler Linotype Company. (See Muehleisen, Molkenthin, and Leidenberg, assignors.)
Mergenthaler Linotype Company. (See Plaut, Harry, assignor.)
Mergenthaler Linotype Company. (See Rennie, William J., assignor.)
Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
Mergenthaler Linotype Company. (See Scharf, William H., assignor.)
Meriden Optical Manufacturing Company, The. (See Cowan, Harry I., assignor.)
Mérigoux, Emile B., Paris, France. Resilient tire. No. 949,001; Feb. 15; Sp. p. 2576; Gaz. vol. 151; p. 463.
Mérigoux, Emile B., Paris, France. Resilient tire. No. 965,922; Aug. 2; Sp. p. 155; Gaz. vol. 157; p. 26.
Merillat, Peter C., Winfield, Iowa. Expansible core for molds. No. 956,125; Apr. 26; Sp. p. 5284; Gaz. vol. 153; p. 928.
Merithew, William H., Carterville, Mo. Water-hose reel and spray. No. 973,286; Oct. 18; Sp. p. 3912; Gaz. vol. 159; p. 669.
Merk, Lawrence A., Wilkinsburg, assignor of one-half to E. Ruud, Pittsburg, Pa. Gas-pressure regulator. No. 977,820; Dec. 6; Sp. p. 870; Gaz. vol. 161; p. 137.
Merkell, Albert G., Ellensburg, Wash. Bench-stop for carpenters. No. 968,866; Aug. 30; Sp. p. 6461; Gaz. vol. 157; p. 1125.
Merkham Trading Company. (See Freeman, Walter F., assignor.)
Merklen, Jules. (See Chateau and Merklen.)
Merkley, Lavern M., Blackfoot, Idaho. Traction-engine. No. 958,816; May 24; Sp. p. 5220; Gaz. vol. 154; p. 880.
Merkley, Stanley A., Buffalo, N. Y. Egg-marking device. No. 970,074; Sept. 13; Sp. p. 2011; Gaz. vol. 158; p. 341.
Merkley, Stanley A., Buffalo, F. H. Apel, Athol Springs, and W. A. Merkley, Buffalo, N. Y. Hen's nest. No. 960,985; June 7; Sp. p. 1491; Gaz. vol. 155; p. 251.
Merkley, Wilburn A. (See Merkley, Apel, and Merkley.)
Mermod, Marc K., New York, N. Y. Fluid-distributing apparatus. No. 961,785; June 21; Sp. p. 3190; Gaz. vol. 155; p. 573.
Merrall, Ward G., Onondaga, Ontario, Canada. Baling-press. No. 949,656; Feb. 15; Sp. p. 3905; Gaz. vol. 151; p. 680.
Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Desiccating apparatus. No. 954,451; Apr. 12; Sp. p. 1596; Gaz. vol. 153; p. 292.
Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Apparatus for treating dried fruit. No. 969,969; Sept. 13; Sp. p. 1791; Gaz. vol. 158; p. 304.
Merrell-Soule Company. (See Merrell, Irving S., assignor.)
Merrell, William D., Denver, Colo. Window-shade bracket and hanger. No. 965,592; July 26; Sp. p. 5623; Gaz. vol. 156; p. 957.
Merrett, Charles E. (See Merrett, Henry and C. E.)
Merrett, Henry, East Burwood, and C. E. Merrett, South Melbourne, Victoria, Australia, assignors to T. B. Simpson, London, England. Internal-combustion engine. No. 970,937; Sept. 20; Sp. p. 3836; Gaz. vol. 158; p. 654.
Merrick, Frank W., Boston, Mass. Stamping, marking, or numbering machine. No. 960,029; May 31; Sp. p. 7827; Gaz. vol. 154; p. 1316.
Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Sewing-machine. No. 945,851; Jan. 11; Sp. p. 1888; Gaz. vol. 150; p. 314.
Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Looper mechanism for hooked-needle sewing-machines. No. 946,064; Jan. 11; Sp. p. 2329; Gaz. vol. 150; p. 387.
Merrick, Herbert L., Passaic, N. J. Integrating device. No. 954,869; Apr. 12; Sp. p. 2578; Gaz. vol. 153; p. 439.
Merrick, Herbert L., Passaic, N. J. Integrating device. No. 954,870; Apr. 12; Sp. p. 2581; Gaz. vol. 153; p. 439.
Merrick, Howard W. (See Scherf and Merrick.)
Merrick, Samuel G., Philadelphia, Pa. Gas-purifier. No. 946,146; Jan. 11; Sp. p. 2493; Gaz. vol. 150; p. 416.
Merriett, Alva S., Kansas City, Kans. Apparatus for forming concrete structures. No. 967,408; Aug. 16; Sp. p. 3376; Gaz. vol. 157; p. 582.
Merrill, Alfred H., Toledo, Ohio. Heater. No. 971,134; Sept. 27; Sp. p. 4237; Gaz. vol. 158; p. 748.
Merrill, Arthur H., Hartford, Conn. Cooking utensil. No. 945,105; Jan. 4; Sp. p. 204; Gaz. vol. 150; p. 35.
Merrill, Augustus A., Mallard, Iowa. Wheelwright-machine. No. 952,623; Mar. 22; Sp. p. 4409; Gaz. vol. 152; p. 804.
Merrill, Calvin H., Shenandoah, Iowa. Air-pumping attachment for water-pumps. No. 972,390; Oct. 11; Sp. p. 1895; Gaz. vol. 159; p. 332.
Merrill, Carl E., Lowell, Mass. Device for polishing brass. No. 961,875; June 21; Sp. p. 3408; Gaz. vol. 155; p. 602.
Merrill, Frank A., Malden, and J. S. C. Nicholls, Boston, assignors of one-third to W. G. Merrill, Malden, Mass. Valve. No. 979,532; Dec. 27; Sp. p. 4559; Gaz. vol. 161; p. 804.
Merrill, Frank H., assignor, by mesne assignments, to Gas Engine Pneumatic Company, Plainfield, N. J. Air-compressor. No. 963,788; July 12; Sp. p. 1687; Gaz. vol. 156; p. 282.
Merrill, Horace F., Williston, N. D. Staple. No. 959,369; May 24; Sp. p. 6372; Gaz. vol. 154; p. 1065.
Merrill, John F., Paola, Kans. Feed-trough. No. 945,242; Jan. 4; Sp. p. 491; Gaz. vol. 150; p. 80.
Merrill, Joseph J., Chicago, Ill. Furnace-grate. No. 974,902; Nov. 8; Sp. p. 1857; Gaz. vol. 160; p. 309.
Merrill, Nathan C., Chicago, Ill. Uptilting bed. No. 963,789; July 12; Sp. p. 1691; Gaz. vol. 156; p. 283.
Merrill, Nathan C., Chicago, Ill. Leg-mounting for uptilting beds. No. 972,462; Oct. 11; Sp. p. 2040; Gaz. vol. 159; p. 357.
Merrill, Ogden, New York, N. Y. Caisson construction. No. 956,126; Apr. 26; Sp. p. 5287; Gaz. vol. 153; p. 929.
Merrill, Robert A., Cincinnati, Ohio. Tool for making ferrules. No. 972,122; Oct. 4; Sp. p. 1309; Gaz. vol. 159; p. 222.
Merrill, Robert A., assignor to The Eagle White Lead Company, Cincinnati, Ohio. Making plumbers' ferrules. No. 973,802; Oct. 25; Sp. p. 5010; Gaz. vol. 159; p. 871.
Merrill, Walter H., Washington, D. C. Method and apparatus for marking X-ray negatives. No. 966,696; Aug. 9; Sp. p. 1833; Gaz. vol. 157; p. 313.
Merrill, William G. (See Merrill and Nicholls, assignors.)
Merrimac Chemical Company. (See Furbush, Levi, assignor.)
Merrimac Mattress Manufacturing Company. (See St. Clair, George H., assignor.)
Merriman, Edward B., Milton, Mass. Snap-hook. No. 967,141; Aug. 9; Sp. p. 2824; Gaz. vol. 157; p. 463.
Merriman, George, Toledo, Ohio. Floor-frame for railway paving plants. No. 946,907; Jan. 18; Sp. p. 4278; Gaz. vol. 150; p. 703.

Alphabetical list of patentees—Continued.

Merriman, Grove R., and W. C. Stevens, Akron, Ohio, assignors to Pittsburg Spiral Wire Hoop Company, Pittsburg, Pa. Hoop-setting machine. No. 960,365; June 7; Sp. p. 262; Gaz. vol. 155; p. 44.
Merriman, Mark, assignor to T. C. Prouty Company, Albion, Mich. Spring-hinge. No. 955,653; Apr. 19; Sp. p. 4241; Gaz. vol. 153; p. 734.
Merrin, Arthur L., Bellingham, Wash. Illuminated sign. No. 968,177; Aug. 23; Sp. p. 5005; Gaz. vol. 157; p. 863.
Merritt, Alexander W., Lynch Station, Va. Metallic window-sash. No. 976,198; Nov. 22; Sp. p. 4651; Gaz. vol. 160; p. 801.
Merritt, Anna H., *et al.* (See Merritt and Gale, assignors.)
Merritt, Arthur A., Worcester, Mass., and G. H. Noble, Providence, R. I., assignors to Willcox and Gibbs Sewing Machine Company, New York, N. Y. Overseam sewing-machine. No. 967,804; Aug. 16; Sp. p. 4166; Gaz. vol. 157; p. 714.
Merritt, Benjamin F., Canton, Mass., assignor to Dey Time Register Company, Syracuse, N. Y. Synchronizing attachment for clocks. No. 958,148; May 17; Sp. p. 3705; Gaz. vol. 154; p. 626.
Merritt, Carl, San Francisco, Cal. Automatic frame-lock. No. 964,997; July 19; Sp. p. 4339; Gaz. vol. 156; p. 724.
Merritt & Company. (See Merritt, James S., assignor.)
Merritt & Company. (See Priestman and Moore, assignors.)
Merritt, Francis I. (See Merritt, Wyley E. and F. I.)
Merritt, Frank W., New York, N. Y., assignor, by mesne assignments, to Auto-Appliance Manufacturing Company. Shock-absorber. No. 951,376; Mar. 8; Sp. p. 1863; Gaz. vol. 152; p. 325.
Merritt, Henry W., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 970,076; Sept. 13; Sp. p. 2016; Gaz. vol. 158; p. 342.
Merritt, Henry W., and H. D. Pomeroy, assignors to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 952,749; Mar. 22; Sp. p. 4676; Gaz. vol. 152; p. 846.
Merritt, James M., assignor to Hoffman Hardware Company, Los Angeles, Cal. Stove. No. 974,290; Nov. 1; Sp. p. 482; Gaz. vol. 160; p. 70.
Merritt, James R., Atlanta, Ga. Railway-switch. No. 956,644; May 3; Sp. p. 295; Gaz. vol. 154; p. 49.
Merritt, James S., Philadelphia, Pa., assignor to Merritt & Company. Coin-controlled lock. No. 963,379; July 5; Sp. p. 831; Gaz. vol. 156; p. 123.
Merritt, Joseph, Hartford, Conn. Flour-packing machine. No. 949,240; Feb. 15; Sp. p. 3054; Gaz. vol. 151; p. 540.
Merritt, Joseph, Hartford, Conn. Connecting-link and making same. No. 956,394; Apr. 26; Sp. p. 5867; Gaz. vol. 153; p. 1020.
Merritt, Joseph, Hartford, Conn., assignor to Union Paper Bag Company, Philadelphia, Pa. Paper-bag machine. No. 960,664; June 7; Sp. p. 869; Gaz. vol. 155; p. 143.
Merritt, Louis G., Lockport, and B. L. Gale, assignors to G. I. Gale, Buffalo, and A. H. Merritt, Lockport, N. Y. Veneer-drying apparatus. No. 974,903; Nov. 8; Sp. p. 1863; Gaz. vol. 160; p. 309.
Merritt, Mortimer G., assignor to Rome Metallic Bedstead Company, Rome, N. Y. Bedstead. No. 947,836; Feb. 1; Sp. p. 98; Gaz. vol. 151; p. 20.
Merritt, Rex C., Constantine, Mich., assignor of one-half to M. J. Harris, Pilot Point, Tex. Laundry apparatus. No. 975,706; Nov. 15; Sp. p. 3620; Gaz. vol. 160; p. 610.
Merritt, Warren H., Copper Center, Alaska, assignor to Valdez Creek Consolidated Mining Company. Flush-sluice concentrator. No. 978,468; Dec. 13; Sp. p. 2266; Gaz. vol. 161; p. 393.
Merritt, Willard E., *et al.* (See Bennett, James H., assignor.)
Merritt, Wyley E. and F. I., Ponca, Nebr. Grain-dump. No. 946,065; Jan. 11; Sp. p. 2332; Gaz. vol. 150; p. 388.
Merriweather, Frederick W., Kansas City, Mo. Bed-rail fastener. No. 953,480; Mar. 29; Sp. p. 6245; Gaz. vol. 152; p. 1120.
Merrow, Charles E. A., Hyde Park, Mass. Illusion apparatus. No. 973,449; Oct. 18; Sp. p. 4262; Gaz. vol. 159; p. 726.
Merry, Addison D., *et al.* (See Collins, Wilbur L., assignor.)
Merry, Charles H., St. Louis, Mo., assignor of one-half to N. A. Merry, Anacortes, Wash. Carrier for compressed fibrous materials. No. 974,904; Nov. 8; Sp. p. 1871; Gaz. vol. 160; p. 309.
Merry, Ernest B., Memphis, Tenn. Lumber-truck. No. 957,431; May 10; Sp. p. 2016; Gaz. vol. 154; p. 349.
Merry, Natta A. (See Merry, Charles H., assignor.)
Merryweather, James, assignor of one-half to Thomas Brothers, Greencastle, Ind. Crossing-signal. No. 978,921; Dec. 20; Sp. p. 3218; Gaz. vol. 161; p. 571.
Mersen, John J. (See De Pree, Leenhouts, and Mersen.)
Mershon, Edward C., Saginaw, Mich. Stock-guide for band-saws. No. 971,685; Oct. 4; Sp. p. 365; Gaz. vol. 159; p. 64.
Mershon, Ralph D., New York, N. Y. Electric motor, generator, and other apparatus. No. 953,749; Apr. 5; Sp. p. 135; Gaz. vol. 153; p. 26.
Merton, Seth D., St. Louis, Mo. Combustion recorder or indicator. No. 953,481; Mar. 29; Sp. p. 6246; Gaz. vol. 152; p. 1120.
Merton, Seth D., St. Louis, Mo. Gas-analysis apparatus. No. 953,482; Mar. 29; Sp. p. 6249; Gaz. vol. 152; p. 1120.
Mertz, Harold F., Mason, Mich. Display-rack. No. 950,050; Feb. 22; Sp. p. 4843; Gaz. vol. 151; p. 852.
Mertz, Victor E., Fallowfield, Manchester, England. Producing cuprammonium solution. No. 954,984; Apr. 12; Sp. p. 2815; Gaz. vol. 153; p. 477.
Merwin, Herbert E., Hensonville, N. Y. Color-screen. No. 977,420; Nov. 29; Sp. p. 7382; Gaz. vol. 160; p. 1248.
Merwin, Horace W., Jr. (See Hunnewell, Frederick N., assignor.)
Merwine, Jacob. (See Leasure, Ira and F. M., assignors.)
Merxen, Thomas M. (See Jungmann, Franz C., assignor.)
Merz, William, New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Fuse-mounting. No. 971,205; Sept. 27; Sp. p. 4404; Gaz. vol. 158; p. 772.
Meschko, Fredrick, Bayonne, N. J. Toy. No. 949,831; Feb. 22; Sp. p. 4291; Gaz. vol. 151; p. 773.
Meseraull, Samuel I., Kansas City, Kans. Vegetable cutter and grater. No. 953,790; Apr. 5; Sp. p. 215; Gaz. vol. 153; p. 39.
Mesinger, Frederick, New York, N. Y. Saddle for motor-cycles. No. 969,791; Sept. 13; Sp. p. 1389; Gaz. vol. 158; p. 244.
Mesinger, Frederick, New York, N. Y. Speed varying and reversing mechanism. No. 972,391; Oct. 11; Sp. p. 1898; Gaz. vol. 159; p. 333.
Mesker & Brother. (See Edwards and Dowling, assignors.)
Meskill, John J., Philadelphia, Pa., assignor to J. F. Kelly, Washington, D. C. Nozzle-support for fire-hose. No. 949,327; Feb. 15; Sp. p. 3240; Gaz. vol. 151; p. 570.
Meskimons, James R. (See Langford, Edwin R., assignor.)
Messenger, Adelaide, St. Paul, Minn., assignor of one-half to M. C. Smith, Chicago, Ill. Bath-tub cover. No. 976,199; Nov. 22; Sp. p. 4653; Gaz. vol. 160; p. 801.
Messer, Jeremiah C., assignor of two-thirds to W. G. Bell, Austin, Tex. Spring trip mechanism. No. 957,432; May 10; Sp. p. 2017; Gaz. vol. 154; p. 349.
Messer, William F., Chicago, Ill. Phonogram-reproducing apparatus. No. 961,980; June 21; Sp. p. 3618; Gaz. vol. 155; p. 637.
Messerschmidt, Christian W. V., Copenhagen, Denmark. Apparatus for closing bottles. No. 955,891; Apr. 26; Sp. p. 4785; Gaz. vol. 153; p. 847.
Messerschmidt, Christian W. V., Copenhagen, Denmark. Metal capsule. No. 970,077; Sept. 13; Sp. p. 2019; Gaz. vol. 158; p. 342.
Messerschmitt, Anton, assignor, by mesne assignments, to Internationale "Wasserstoff" Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing hydrogen. No. 971,206; Sept. 27; Sp. p. 4405; Gaz. vol. 158; p. 773.
Messier, Auguste L., assignor to H. W. Caldwell & Son Company, Chicago, Ill. Friction-clutch. No. 968,676; Aug. 30; Sp. p. 6073; Gaz. vol. 157; p. 1064.
Messing, Christopher, New York, N. Y. Station-indicator. No. 959,370; May 24; Sp. p. 6373; Gaz. vol. 154; p. 1066.
Messinger, Joseph, Philadelphia, Pa. Spoke-extractor. No. 966,461; Aug. 9; Sp. p. 1300; Gaz. vol. 157; p. 233.
Messler, Arnold C. (See Crecelius, Emil R., assignor.)
Messler, Francis A., and M. Bollstrom, Battle Creek, Mich. Motor-vehicle. No. 955,602; Apr. 19; Sp. p. 4125; Gaz. vol. 153; p. 717.
Messman, Herman, Kentland, Ind. Six-horse draft mechanism. No. 957,076; May 3; Sp. p. 1242; Gaz. vol. 154; p. 197.
Messmer, Eduard, Gratz, Austria-Hungary. Dental air-pump. No. 971,913; Oct. 4; Sp. p. 866; Gaz. vol. 159; p. 149.
Messmer, Ferdinand, Jr., St. Louis, Mo. Valve. No. 979,874; Dec. 27; Sp. p. 5327; Gaz. vol. 161; p. 921.
Messter, Oskar, Berlin, Germany. Mechanism for the feeding of kinematograph-films. No. 955,840; Apr. 19; Sp. p. 4641; Gaz. vol. 153; p. 800.
Mesta, Frederick E., West Homestead, assignor to Mesta Machine Company, Pittsburg, Pa. Mold for chilled rolls. No. 951,769; Mar. 8; Sp. p. 2648; Gaz. vol. 152; p. 458.
Mesta, George, assignor to Mesta Machine Company, Pittsburg, Pa. Blowing-engine or compressor. No. 958,705; May 17; Sp. p. 4955; Gaz. vol. 154; p. 814.
Mesta Machine Company. (See Klindworth, John L., assignor.)
Mesta Machine Company. (See Mesta, Frederick E., assignor.)
Mesta Machine Company. (See Mesta, George, assignor.)
Meston, Charles R., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Lubricating-bearing. No. 947,529; Jan. 25; Sp. p. 5644; Gaz. vol. 150; p. 938.
Meston, Charles R., and H. I. Finch, assignors to Emerson Electric Manufacturing Company, St. Louis, Mo. Oscillating electric fan. No. 952,458; Mar. 22; Sp. p. 4027; Gaz. vol. 152; p. 745.

Alphabetical list of patentees—Continued.

Meston, Charles R., and H. I. Finch, assignors to Emerson Electric Manufacturing Company, St. Louis, Mo. Combination desk and wall fan. No. 953,047; Mar. 29; Sp. p. 5291; Gaz. vol. 152; p. 975.
Meszaros, Louis, Cleveland, Ohio. Mechanical fan. No. 955,823; Apr. 19; Sp. p. 4594; Gaz. vol. 153; p. 794.
Metal Plated Car & Lumber Company. (See Ingham, Charles R., assignor.)
Metal Products Corporation, The. (See Stone, Arthur C., assignor.)
Metal Sectional Furniture Company. (See Holland, Elias C., assignor.)
Metal Sectional Furniture Company. (See Shoemaker and Holland, assignors.)
Metal Sign Board Advertising Company. (See Turner, William L., assignor.)
Metal Stamping Company. (See Coney, Glenn E., assignor.)
Metal Stamping Company. (See Worrest, Alfred H., assignor.)
Metallic Sheathing Company. (See Banning, Samuel W., assignor.)
Metallic Sheathing Company. (See Berg, Lars J., assignor.)
Metalloids Limited. (See Cowper-Coles, Sherard O., assignor.)
Metallurgical Company of America. (See Meyer, Franz, assignor.)
Metals Extraction Corporation Limited, The. (See Hommel and Sulman, assignors.)
Metcalf, Frederick, and J. E. Carson, assignors to The Chase Machine Company, Cleveland, Ohio. Winch. No. 975,558; Nov. 15; Sp. p. 3306; Gaz. vol. 160; p. 561.
Metcalf, Frederick, and J. E. Carson, assignors to The Chase Machine Company, Cleveland, Ohio. Winch. No. 975,559; Nov. 15; Sp. p. 3310; Gaz. vol. 160; p. 562.
Metcalf, Frederick, and E. Daigleish, Cleveland, Ohio. Towing-machine. No. 977,322; Nov. 29; Sp. p. 7131; Gaz. vol. 160; p. 1214.
Metcalf, George A., W. C. and L. T. Rocheleau, Woonsocket, R. I. Rotary steam-engine. No. 958,416; May 17; Sp. p. 4396; Gaz. vol. 154; p. 718.
Metcalf, Horace. (See Cox, Amos M., assignor.)
Metcalfe, William H., Philadelphia, Pa. Carpet-stretcher. No. 977,210; Nov. 29; Sp. p. 6928; Gaz. vol. 160; p. 1177.
Métérié, Emile J. (See Groshon, John A., assignor.)
Methalco Chemical Company. (See Halloran, Henry G., assignor.)
Metropolitan Sewing Machine Company. (See Krug, Louis, assignor.)
Metropolitan Sewing Machine Company. (See Weis, John P., assignor.)
Metropolitan Sewing Machine Company. (See Weis and Krug, assignors.)
Metropolitan Sewing Machine Company. (See Weis and Robbins, assignors.)
Metterhausen, Carl, Chicago, Ill. Draft-rigging. No. 951,325; Mar. 8; Sp. p. 1760; Gaz. vol. 152; p. 309.
Metterhausen, Carl, Chicago, Ill. Draft-rigging. No. 951,326; Mar. 8; Sp. p. 1761; Gaz. vol. 152; p. 309.
Mettler, John C., Evans City, Pa. Well-casing-repairing tool. No. 958,517; May 17; Sp. p. 4598; Gaz. vol. 154; p. 754.
Metz & Co., H. A. (See Reuter, Baptist, assignor.)
Metz, Herman A. (See Engelman, Julius R., assignor.)
Metz, John J., and A. Mosley, St. Louis, Mo. Convertible car. No. 961,876; June 21; Sp. p. 3409; Gaz. vol. 155; p. 603.
Metz, Nathaniel, assignor of one-half to W. D. Heebner, Lansdale, Pa. Internal-combustion engine. No. 957,788; May 10; Sp. p. 2737; Gaz. vol. 154; p. 469.
Metzdorf, Louis, Clarksville, Iowa. Hat-fastener. No. 955,654; Apr. 19; Sp. p. 4243; Gaz. vol. 153; p. 735.
Metzer, George H., New York, N. Y. Construction of tiled walls, ceilings, and the like. No. 963,456; July 5; Sp. p. 990; Gaz. vol. 156; p. 148.
Metzger, David, New York, N. Y. Feather plume. No. 964,476; July 12; Sp. p. 3108; Gaz. vol. 156; p. 511.
Metzger, Edward J., and J. A. Moore, Copan, Okla. Clamp-stirrup. No. 949,241; Feb. 15; Sp. p. 3057; Gaz. vol. 151; p. 541.
Metzger, Ferdinand F. (See Richardson and Metzger.)
Metzger, Jacob J., Cleveland, Ohio. Target. No. 951,377; Mar. 8; Sp. p. 1866; Gaz. vol. 152; p. 325.
Metzger, John C. (See Beck, Joseph W., assignor.)
Metzger, Joseph, Cambridge, Mass. Piano attachment for giving mandolin effects. No. 960,665; June 7; Sp. p. 874; Gaz. vol. 155; p. 144.
Metzger, Robert I., Davenport, Iowa. Pliers. No. 954,818; Apr. 12; Sp. p. 2459; Gaz. vol. 153; p. 419.
Metzler, Anton, Rochester, N. Y. Sewing-machine. No. 966,937; Aug. 9; Sp. p. 2388; Gaz. vol. 157; p. 392.
Metzler, Clarence A. (See Davis, John M., assignor.)
Metzler, William M., Akron, Ohio. Conveyer-belt. No. 975,560; Nov. 15; Sp. p. 3312; Gaz. vol. 160; p. 562.
Metzner, Maxwell A., Perth Amboy, N. J. Moistener. No. 958,149; May 17; Sp. p. 3706; Gaz. vol. 154; p. 626.
Meunier, Stanislass, Heaton-Chapel, England. Hydraulic gas-main. No. 958,518; May 17; Sp. p. 4600; Gaz. vol. 154; p. 755.
Meurant, Jules, Liege, Belgium. Paint and making the same. No. 963,917; July 12; Sp. p. 1983; Gaz. vol. 156; p. 326.
Meurling, John A., Chicago, Ill. Insulator. No. 970,078; Sept. 13; Sp. p. 2020; Gaz. vol. 158; p. 342.
Meves, Gustav N., Davenport, Iowa. Operating mechanism for washing-machines. No. 961,877; June 21; Sp. p. 3412; Gaz. vol. 155; p. 603.
Meves, Gustav N., Davenport, Iowa. Operating mechanism for washing-machines. No. 961,878; June 21; Sp. p. 3417; Gaz. vol. 155; p. 604.
Meves, Gustav N., Davenport, Iowa. Operating mechanism for washing-machines. No. 961,879; June 21; Sp. p. 3421; Gaz. vol. 155; p. 604.
Meves, Gustav N., Davenport, Iowa. Operating mechanism for washing-machines. No. 962,158; June 21; Sp. p. 4034; Gaz. vol. 155; p. 700.
Mewes, Gustav F., assignor to George D. Barnard & Company, St. Louis, Mo. Loose-leaf book. No. 967,535; Aug. 16; Sp. p. 3633; Gaz. vol. 157; p. 624.
Meyer, Adam F. (See Buch, Frederick W., Jr., assignor.)
Meyer, Albert. (See Hogle and Meyer.)
Meyer, Albert J., assignor of one-half to C. J. Crawford, Cape Girardeau, Mo. Separator. No. 952,459; Mar. 22; Sp. p. 4029; Gaz. vol. 152; p. 746.
Meyer, Albert T., Toledo, Ohio, assignor to G. G. and G. A. Black. Attachment for scoring-machines. No. 976,388; Nov. 22; Sp. p. 5110; Gaz. vol. 160; p. 867.
Meyer, Albert W., Roselle, N. J. Steam-cooker. No. 952,572; Mar. 22; Sp. p. 4285; Gaz. vol. 152; p. 785.
Meyer, Alfred, Mülhausen, Germany. Preparing medicaments. No. 948,930; Feb. 8; Sp. p. 2409; Gaz. vol. 151; p. 411.
Meyer, Anton, assignor to Missouri Wire and Rolled Glass Manufacturing Company, St. Louis, Mo. Apparatus for rolling wire-glass. No. 952,126; Mar. 15; Sp. p. 3368; Gaz. vol. 152; p. 606.
Meyer, Anton, assignor to Missouri Wire and Rolled Glass Manufacturing Company, St. Louis, Mo. Apparatus for rolling glass. No. 968,178; Aug. 23; Sp. p. 5006; Gaz. vol. 157; p. 863.
Meyer, Arthur H. C., Fort Wayne, Ind. Variable-feed gearing. No. 969,895; Sept. 13; Sp. p. 1625; Gaz. vol. 158; p. 280.
Meyer, August, Oakland, Cal. Bone-saw. No. 967,805; Aug. 16; Sp. p. 4167; Gaz. vol. 157; p. 714.
Meyer, Carl, Charlottenburg, Germany. Alternating-current telegraph system. No. 953,701; Apr. 5; Sp. p. 40; Gaz. vol. 153; p. 10.
Meyer, Carl H., Washington, Pa. Pruning device. No. 952,750; Mar. 22; Sp. p. 4682; Gaz. vol. 152; p. 846.
Meyer, Charles C., Vincennes, Ind. Hinge. No. 951,327; Mar. 8; Sp. p. 1762; Gaz. vol. 152; p. 309.
Meyer, Charles R., Dayton, Ohio. Adjustable curtain-support. No. 949,936; Feb. 22; Sp. p. 4542; Gaz. vol. 151; p. 811.
Meyer, Daniel F., Dayton, and J. W. Young, Zanesville, assignors of nine-sixteenths to said Young, one-fourth to H. H. Pool, one-eighth to O. E. Pool, and one-sixteenth to C. E. Pool, Urbana, Ohio. Apparatus for decorating tiles, &c. No. 948,931; Feb. 8; Sp. p. 2410; Gaz. vol. 151; p. 411.
Meyer, Eduard, Friedrichswerth, Germany. Roasted sulfurized grain. No. 945,567; Jan. 4; Sp. p. 1208; Gaz. vol. 150; p. 187.
Meyer, Eduard G. C. L., and H. F. J. Holst, Hamburg, Germany. Apparatus for use in loading coal and similar substances. No. 946,248; Jan. 11; Sp. p. 2725; Gaz. vol. 150; p. 453.
Meyer, Edward H., *et al.* (See Gieselmann, Edward, assignor.)
Meyer, Edward L., Seattle, Wash. Hat-hook. No. 980,162; Dec. 27; Sp. p. 5953; Gaz. vol. 161; p. 1016.
Meyer, Ehler F., Hinsdale, Ill. Milk-card holder. No. 946,908; Jan. 18; Sp. p. 4279; Gaz. vol. 150; p. 703.
Meyer, Einar H., and J. M. A. Stillesen, Niagara Falls, Ontario, Canada. Electric furnace. No. 955,655; Apr. 19; Sp. p. 4244; Gaz. vol. 153; p. 735.
Meyer, Einar H., and J. M. A. Stillesen, Niagara Falls, Ontario, Canada. Electrochemical apparatus and process. No. 965,393; July 26; Sp. p. 5163; Gaz. vol. 156; p. 886.
Meyer, Ernest A., Freeport, Pa. Two-cycle internal-combustion engine. No. 956,814; May 3; Sp. p. 683; Gaz. vol. 154; p. 107.
Meyer, Ernest D., assignor to A. V. Manning's Sons, Trenton, N. J. Display mechanism. No. 972,123; Oct. 4; Sp. p. 1311; Gaz. vol. 159; p. 222.
Meyer, Eugene, assignor to himself, J. Kilduff, and A. G. Rowan, New York, N. Y. Vibratory apparatus for ear treatment. No. 976,200; Nov. 22; Sp. p. 4654; Gaz. vol. 160; p. 802.
Meyer, Ferdinand W., Kansas City, Mo. Boiler. No. 971,296; Sept. 27; Sp. p. 4576; Gaz. vol. 158; p. 801.
Meyer, Frank, Maywood, Ill. Gear-fastening device. No. 955,656; Apr. 19; Sp. p. 4247; Gaz. vol. 153; p. 735.
Meyer, Franz, Englewood, N. J., assignor to Metallurgical Company of America, New York, N. Y. Regenerative furnace. No. 958,150; May 17; Sp. p. 3708; Gaz. vol. 154; p. 627.

Alphabetical list of patentees—Continued.

Meyer, Fred D., Morris, Minn. Ditching-machine. No. 949,937; Feb. 22; Sp. p. 4544; Gaz. vol. 151; p. 812.
Meyer, Fred W., Louisville, Ky. Valve and faucet. No. 946,249; Jan. 11; Sp. p. 2728; Gaz. vol. 150; p. 453.
Meyer, Frederick, Liverpool, England. Means for detaching postage-stamps, labels, and the like from sheets and attaching same to any desired object or matter. No. 954,321; Apr. 5; Sp. p. 1333; Gaz. vol. 153; p. 220.
Meyer, Frederick, Liverpool, England. Means for detaching from the sheet and affixing postage-stamps and the like. No. 965,645; July 26; Sp. p. 5734; Gaz. vol. 156; p. 975.
Meyer, Gottfried, Philadelphia, Pa. Manufacturing flexible tubes for fountain paint-brushes and the like. No. 976,899; Nov. 29; Sp. p. 6201; Gaz. vol. 160; p. 1067.
Meyer, Gustave M. (See Stocker, Fred, assignor.)
Meyer, Heinrich W., Zehlendorf, near Berlin, Germany. Receptacle for liquid-weighing machines. No. 956,775; May 3; Sp. p. 591; Gaz. vol. 154; p. 94.
Meyer, Henry C. (See Erwin and Meyer.)
Meyer, Herman F. D., New York, N. Y. Tire-shield. No. 967,806; Aug. 16; Sp. p. 4168; Gaz. vol. 157; p. 715.
Meyer, Jacob, and I. Silversmith, St. Louis, Mo. Animal-collar fastener. No. 965,210; July 26; Sp. p. 4767; Gaz. vol. 156; p. 824.
Meyer, John, Yuton, Ill. Cultivator attachment. No. 975,976; Nov. 15; Sp. p. 4156; Gaz. vol. 160; p. 703.
Meyer, John, Ellinwood, Kans. Animal-trap. No. 979,020; Dec. 20; Sp. p. 3461; Gaz. vol. 161; p. 607.
Meyer, John G., Portland, Oreg. Vacuum dust-remover. No. 956,862; May 3; Sp. p. 789; Gaz. vol. 154; p. 125.
Meyer, Karl A., Strassburg, Germany. Device for preventing the displacement of neckties. No. 979,533; Dec. 27; Sp. p. 4560; Gaz. vol. 161; p. 805.
Meyer, Lee R., and R. J. Young, Alton, Ill. Computing weighing-scale. No. 976,275; Nov. 22; Sp. p. 4862; Gaz. vol. 160; p. 830.
Meyer, Paul F., Gary, Ind. Baby-stand. No. 965,476; July 26; Sp. p. 5347; Gaz. vol. 156; p. 915.
Meyer, Philip, Santa Rosa, Cal. Apparatus for generating gas from oil. No. 952,127; Mar. 15; Sp. p. 3370; Gaz. vol. 152; p. 606.
Meyer, Ralph J., Grand Junction, Colo. Orchard-heater. No. 958,151; May 17; Sp. p. 3711; Gaz. vol. 154; p. 627.
Meyer, Simon. (See Eckhardt, Edward J., assignor.)
Meyer, Vernon H., Cleveland, Ohio. Vulcanizer for repairing rubber tires, &c. No. 949,154; Feb. 15; Sp. p. 2894; Gaz. vol. 151; p. 512.
Meyer, William. (See Loewenberg, Alfred, assignor.)
Meyer, William, Chicago, Ill. Speculum. No. 951,285; Mar. 8; Sp. p. 1665; Gaz. vol. 152; p. 295.
Meyer, William, Chicago, Ill. Electric cautery. No. 958,753; May 24; Sp. p. 5070; Gaz. vol. 154; p. 857.
Meyer, William, Chicago, Ill. Rectifier. No. 972,892; Oct. 18; Sp. p. 3028; Gaz. vol. 159; p. 534.
Meyer, William C., Cleveland, Ohio. Expansion-reamer. No. 947,926; Feb. 1; Sp. p. 303; Gaz. vol. 151; p. 51.
Meyer, William F., *et al.* (See Kolf, Max, assignor.)
Meyer, William J., assignor to Swartchild & Co., Chicago, Ill. Jeweler's bench. No. 951,506; Mar. 8; Sp. p. 2127; Gaz. vol. 152; p. 368.
Meyer-Zimmerli, Ernst, Zurich, assignor to G. Schmid, Kreuzlingen, Switzerland. Gas-burner. No. 957,358; May 10; Sp. p. 1862; Gaz. vol. 154; p. 324.
Meyerheim, Max, assignor to D. L. Gluck, New York, N. Y. Ruling device. No. 973,534; Oct. 25; Sp. p. 4456; Gaz. vol. 159; p. 778.
Meyerhoff, Jacob, Chicago, Ill. Cuspidor. No. 953,791; Apr. 5; Sp. p. 216; Gaz. vol. 153; p. 39.
Meyers, Edward, Milwaukee, Wis. Coin-wrapper. No. 949,987; Feb. 22; Sp. p. 4963; Gaz. vol. 151; p. 830.
Meyers, Frank J. (See Trapp and Gehrman, assignors.)
Meyers, Frederick B., Colgate Station, assignor of one-fourth to M. Nilsson, Baltimore, one-fourth to W. Pfister, and one-fourth to C. Schmidt, Baltimore county, Md. Emergency-coupling. No. 968,382; Aug. 23; Sp. p. 5418; Gaz. vol. 157; p. 935.
Meyers, John P., Monroeville, Ohio. Cultivator. No. 957,359; May 10; Sp. p. 1862; Gaz. vol. 154; p. 324.
Meyers, Joseph. (See Millar and Meyers.)
Meyers, Joseph, Denver, Colo. Wind-operated revolving sign. No. 963,165; July 5; Sp. p. 350; Gaz. vol. 156; p. 50.
Meyers, Reed C., Trenton, N. J. Horseshoe. No. 945,568; Jan. 4; Sp. p. 1209; Gaz. vol. 150; p. 187.
Meyers, Samuel E., St. Louis, Mo. Open-hearth furnace. No. 949,192; Feb. 15; Sp. p. 2965; Gaz. vol. 151; p. 525.
Meyers, Willard F., New York, N. Y. Stoneworking-lathe. No. 957,978; May 17; Sp. p. 3210; Gaz. vol. 154; p. 565.
Meyerson, Max. (See Kovács, Peter, assignor.)
Meyerson, Meyer, Bennettville, Minn. Single-delivery match-box. No. 958,966; May 24; Sp. p. 5548; Gaz. vol. 154; p. 932.
Meyerson, Meyer, Bennettville, assignor of one-half to B. Baadnes, Aitkin, Minn. Motor-sled. No. 977,421; Nov. 29; Sp. p. 7384; Gaz. vol. 160; p. 1248.
Meylan, Charles H., Brassus, Switzerland. Watch. No. 952,921; Mar. 22; Sp. p. 5030; Gaz. vol. 152; p. 904.
Meyrowitz, Emil B., New York, N. Y., assignor to The Meyrowitz Manufacturing Co. Eyeglasses. No. 946,973; Jan. 18; Sp. p. 4405; Gaz. vol. 150; p. 724.
Meyrowitz, Emil B., New York, N. Y., assignor to The Meyrowitz Manufacturing Company. Eyeglasses. No. 963,380; July 5; Sp. p. 833; Gaz. vol. 156; p. 123.
Meyrowitz Manufacturing Co., The. (See Meyrowitz, Emil B., assignor.)
Meyrowitz Manufacturing Company, The. (See Schmidt, Henry, assignor.)
Mez, Julius, *et al.* (See Abrahamson, Isidor, assignor.)
Mez, Oscar, *et al.* (See Abrahamson, Isidor, assignor.)
Mezger, Harry W., Springfield, Ohio. Water-motor. No. 958,152; May 17; Sp. p. 3712; Gaz. vol. 154; p. 627.
Miami Cycle & Manufacturing Company. (See Robinson, William, assignor.)
Miami Cycle & Manufacturing Company, The. (See Schenck, Murray, assignor.)
Miami Cycle and Mfg. Co., The. (See Lowrance, William L., assignor.)
Mianus Motor Works. (See Gray, George, assignor.)
Michael, Anceal C., Flora, assignor of one-half to S. D. Helm and one-half to C. E. Lacey, Crawfordsville, Ind. Folding crate. No. 954,322; Apr. 5; Sp. p. 1337; Gaz. vol. 153; p. 221.
Michael, Anceal C., Goshen, assignor to S. D. Helm, W. Q. O'Neall, and C. E. Lacy, Crawfordsville, Ind. Watering-trough. No. 970,079; Sept. 13; Sp. p. 2021; Gaz. vol. 158; p. 343.
Michael, Arthur L., assignor to Draper Company, Hopedale, Mass. Loom for weaving bags. No. 953,632; Mar. 29; Sp. p. 6564; Gaz. vol. 152; p. 1172.
Michael, Charles C., and G. E. Cockings, Bristol, Conn. Hoisting apparatus. No. 971,686; Oct. 4; Sp. p. 367; Gaz. vol. 159; p. 64.
Michael, Edward, *et al.* (See Willet, John G., assignor.)
Michael, Francis M., Eaton, Ohio. Grid for storage batteries. No. 969,387; Sept. 6; Sp. p. 506; Gaz. vol. 158; p. 81.
Michael, George H., Goshen, Ind. Lawn-swing. No. 954,197; Apr. 5; Sp. p. 1060; Gaz. vol. 153; p. 180.
Michael, Isidore, *et al.* (See Willet, John G., assignor.)
Michael, Ollie P. W., Coffeyville, Kans. Metallic railway cross-tie. No. 945,040; Jan. 4; Sp. p. 66; Gaz. vol. 150; p. 13.
Michael, William C., Claremont, N. H. Striking-tool. No. 947,391; Jan. 25; Sp. p. 5306; Gaz. vol. 150; p. 892.
Michael, William C., Claremont, N. H. Clasp. No. 949,938; Feb. 22; Sp. p. 4546; Gaz. vol. 151; p. 812.
Michaels, Frank L., and G. Welling, Covington, Ky. Window-screen. No. 974,689; Nov. 1; Sp. p. 1387; Gaz. vol. 160; p. 215.
Michaels, George. (See Johnson and Michaels.)
Michaelson, John, Peterson, Minn. Fastener for storm-windows and window-screens. No. 946,250; Jan. 11; Sp. p. 2730; Gaz. vol. 150; p. 454.
Michaëly, Carl T., Surburg, Germany. Making food for animals. No. 946,642; Jan. 18; Sp. p. 3649; Gaz. vol. 150; p. 611.
Michal, Jaroslav, New York, N. Y. Apparatus for preparation of carbonic-acid baths. No. 955,182; Apr. 19; Sp. p. 3199; Gaz. vol. 153; p. 574.
Michal, Joseph, Jr. (See Blackburn and Michal.)
Michalka, Frank A. (See Michalka, Joseph and F. A.)
Michalka, Joseph and F. A., Cameron, Tex. Stalk-cutter. No. 957,620; May 10; Sp. p. 2378; Gaz. vol. 154; p. 412.
Michaud, Georges, and E. Delasson, Montreuil, Seine, France. Apparatus for the continuous manufacture of filaments. No. 962,910; June 28; Sp. p. 5612; Gaz. vol. 155; p. 983.
Michaud, Georges, and E. Delasson, Montreuil, Seine, France. Manufacture of filaments for illuminating and heating purposes. No. 972,893; Oct. 18; Sp. p. 3030; Gaz. vol. 159; p. 535.
Michaud, Georges, and E. Delasson, Montreuil-sous-Bois, France. Manufacturing filaments and the filament produced thereby. No. 973,535; Oct. 25; Sp. p. 4457; Gaz. vol. 159; p. 778.
Michaud, John C., Springfield, Mass. Clothes-line support. No. 950,859; Mar. 1; Sp. p. 844; Gaz. vol. 152; p. 135.
Michaud, Joseph E., and F. McGrath, Lawrence, Mass. Oven-shelf. No. 977,422; Nov. 29; Sp. p. 7386; Gaz. vol. 160; p. 1249.
Michaud, Joseph O., Fort Kent, Me. Power-transmission mechanism. No. 979,534; Dec. 27; Sp. p. 4561; Gaz. vol. 161; p. 805.
Michaud, Onesime E., St. Louis, Mo. Attachment for shotguns. No. 968,583; Aug. 30; Sp. p. 5848; Gaz. vol. 157; p. 1031.
Micheel, Josef, Kervenheim, Germany. Manufacture of boots and shoes. No. 978,324; Dec. 13; Sp. p. 1966; Gaz. vol. 161; p. 343.
Michel, Amedee J., and J. M. Jones, St. Louis, Mo. Staple-setting machine. No. 966,462; Aug. 9; Sp. p. 1301; Gaz. vol. 157; p. 233.
Michel, Isac, assignor to Michelius G. m. b. H., Frankfort-on-the Main, Germany. Envelop-closing machine. No. 979,535; Dec. 27; Sp. p. 4565; Gaz. vol. 161; p. 805.
Michel, Joseph E. A., Paris, France. Pressure-regulator for automatic brakes. No. 971,207; Sept. 27; Sp. p. 4407; Gaz. vol. 158; p. 773.
Michel, William. (See Snow, Gemunder, and Michel.)

Michelfelder, Otto W., Denver, Colo. Lid for ice-cans. No. 946,945; Jan. 18; Sp. p. 4346; Gaz. vol. 150; p. 714.
Michelin, André, Paris, France. Rim of wheels and means for temporarily securing a pneumatic tire thereto. No. 965,593; July 26; Sp. p. 5623; Gaz. vol. 156; p. 957.
Michelin, André, Paris, France. Removable rim for the wheels of vehicles. No. 967,536; Aug. 16; Sp. p. 3634; Gaz. vol. 157; p. 625.
Michelius G. m. b. H. (See Michel, Isac, assignor.)
Michelsen, Hans, Minneapolis, Minn. Presser-foot for shoe-sole-stitching mechanisms. No. 957,697; May 10; Sp. p. 2539; Gaz. vol. 154; p. 439.
Michener, Elwood H., Camden, N. J., assignor to Acme Staple Company, Limited, Philadelphia, Pa. Machine for forming and attaching tags. No. 973,369; Oct. 18; Sp. p. 4095; Gaz. vol. 159; p. 699.
Michener, Elwood H., Camden, N. J., assignor to Acme Staple Company, Limited, Philadelphia, Pa. Stapling-machine. No. 973,370; Oct. 18; Sp. p. 4100; Gaz. vol. 159; p. 700.
Michener, John H., Jr., assignor to Michener Stowage Company, New York, N. Y. Starting and stopping mechanism. No. 978,775; Dec. 13; Sp. p. 2931; Gaz. vol. 161; p. 496.
Michener Stowage Company. (See Michener, John H., Jr., assignor.)
Michie, David B., Chicago, Ill. Mattress. No. 967,652; Aug. 16; Sp. p. 3859; Gaz. vol. 157; p. 663.
Michigan Sales Company. (See Peters and Schmidt, assignors.)
Michigan Steel Boat Company. (See Walters, Charles E., assignor.)
Michod, Charles L., Los Angeles, Cal. Fence-post. No. 966,111; Aug. 2; Sp. p. 564; Gaz. vol. 157; p. 92.
Micka, Louis J., St. Louis, Mo. Collar for decoy-ducks. No. 971,392; Sept. 27; Sp. p. 4764; Gaz. vol. 158; p. 833.
Mickelson, Mitchell S., *et al.* (See Bailey, Walter F., assignor.)
Mickey, Robert K., assignor to Novelty Incandescent Lamp Company, Emporium, Pa. Manufacturing incandescent lamps. No. 966,571; Aug. 9; Sp. p. 1592; Gaz. vol. 157; p. 271.
Mickey, Robert K., assignor of one-half to Novelty Incandescent Lamp Company, Emporium, Pa., and one-half to E. M. Dwyer, Lynn, Mass. Incandescent-lamp-stem centering and drawing tool. No. 970,938; Sept. 20; Sp. p. 3838; Gaz. vol. 158; p. 655.
Mickleson, Don A., Carbonate, Utah. Ball-bearing shears. No. 951,539; Mar. 8; Sp. p. 2189; Gaz. vol. 152; p. 380.
Micklin, Ernest W. (See Barnhill, Edward B., assignor.)
Micó y Muñoz, Antonio, New York, N. Y. Gas-pump to lift water. No. 963,167; July 5; Sp. p. 354; Gaz. vol. 156; p. 50.
Middeldorf, Robert, Solingen, Germany. Case for safety-razors. No. 961,727; June 14; Sp. p. 3054; Gaz. vol. 155; p. 529.
Middendorf, John N., Covington, Ky. Water-heater. No. 973,536; Oct. 25; Sp. p. 4459; Gaz. vol. 159; p. 778.
Middlebrook, George, *et al.* (See Stanway, William, assignor.)
Middlebrook, James J., Sault Ste. Marie, Mich. Motor-plow. No. 957,979; May 17; Sp. p. 3213; Gaz. vol. 154; p. 566.
Middlebrook, James J., Sault Ste. Marie, Mich. Motor-vehicle. No. 958,519; May 17; Sp. p. 4602; Gaz. vol. 154; p. 755.
Middlebrook, Thomas, Sault Ste. Marie, Mich. Mail delivering and collecting apparatus. No. 971,914; Oct. 4; Sp. p. 867; Gaz. vol. 159; p. 149.
Middlekauff, Victor E. (See Reisner and Middlekauff.)
Middleton, Elias. (See Holmstrom and Mascall, assignors.)
Middleton, John, New Bedford, Mass. Combination-tool. No. 976,674; Nov. 22; Sp. p. 5707; Gaz. vol. 160; p. 966.
Middleton, Nathaniel R., Jersey City, N. J. Combination shovel and coal-receptacle. No. 947,452; Jan. 25; Sp. p. 5449; Gaz. vol. 150; p. 911.
Middleton, Winton G., Oakland, Cal., assignor to Mergenthaler Linotype Company. Line-casting machine, &c. No. 957,433; May 10; Sp. p. 2019; Gaz. vol. 154; p. 350.
Midgley, Ephraim A., Salt Lake City, Utah. Damper and air-regulator. No. 954,643; Apr. 12; Sp. p. 2034; Gaz. vol. 153; p. 358.
Midgley, Frederick W., Jersey City, N. J., assignor to International Telegraph Construction Company. Transmitting apparatus. No. 974,169; Nov. 1; Sp. p. 125; Gaz. vol. 160; p. 24.
Midgley, Frederick W., Jersey City, N. J., assignor to International Telegraph Construction Company. Receiving apparatus. No. 974,985; Nov. 8; Sp. p. 2071; Gaz. vol. 160; p. 338.
Midgley, Frederick W., Jersey City, N. J., assignor to International Telegraph Construction Company. Receiving apparatus. No. 974,986; Nov. 8; Sp. p. 2073; Gaz. vol. 160; p. 338.
Midgley, John G., Salt Lake City, Utah. Steam-heating system. No. 963,613; July 5; Sp. p. 1308; Gaz. vol. 156; p. 201.
Midgley, Thomas, Columbus, Ohio, assignor to The Hartford Rubber Works Company. Wheel-tire. No. 962,778; June 28; Sp. p. 5363; Gaz. vol. 155; p. 937.
Midland Chemical Company, The. (See Quayle, William O., assignor.)
Miedel, Clarence, Short Creek, W. Va. Burner attachment. No. 964,292; July 12; Sp. p. 2748; Gaz. vol. 156; p. 453.
Mieden, Adam, Los Angeles, Cal. Safety-envelop. No. 971,461; Sept. 27; Sp. p. 4880; Gaz. vol. 158; p. 855.
Mieg, Walter. (See Thomaschewski, Raeder, Mieg, and Fischer.)
Mieg, Walter, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Gray anthraquinone dye. No. 960,182; May 31; Sp. p. 8128; Gaz. vol. 154; p. 1367.
Miehle Printing Press and Manufacturing Company. (See Droitcour, Michael A., assignor.)
Miehle Printing Press and Manufacturing Company. (See Henderson, Carl, assignor.)
Miehle, William S., Chicago, Ill. Pipe-wrench. No. 951,570; Mar. 8; Sp. p. 2247; Gaz. vol. 152; p. 390.
Miehle, William S., Chicago, Ill. Adjustable wrench. No. 975,707; Nov. 15; Sp. p. 3621; Gaz. vol. 160; p. 610.
Mielck, Henry, and F. C. von Heydebrand, assignors of one-third to J. Karl, Garfield, N. J. Water and air proof composition of matter. No. 977,423; Nov. 29; Sp. p. 7388; Gaz. vol. 160; p. 1249.
Mierly, William J., Morrill, Nebr. Hame-hook. No. 946,763; Jan. 18; Sp. p. 3912; Gaz. vol. 150; p. 652.
Miers, Charles A., *et al.* (See Bigby, Colquitt H., assignor.)
Mieth, Otto F., assignor of one-fourth to J. E. Hausfeld and one-fourth to V. E. Tresise, Cincinnati, Ohio. Time-lock. No. 978,325; Dec. 13; Sp. p. 1967; Gaz. vol. 161; p. 345.
Mieth, Paul O., Newark, N. J. Eyelet setting and embossing punch. No. 960,104; May 31; Sp. p. 7980; Gaz. vol. 154; p. 1341.
Mieville, Mortimer F., Chicester, England. Apparatus for the production of carbureted air. No. 947,717; Jan. 25; Sp. p. 6012; Gaz. vol. 150; p. 1001.
Miffonis, Louis F. H. de, Aylmer, Quebec, Canada. Reinforced-concrete tower. No. 960,666; June 7; Sp. p. 876; Gaz. vol. 155; p. 144.
Miggett, William L., Ann Arbor, assignor to R. Herman, Detroit, Mich. Boiler-tube cleaner. No. 978,326; Dec. 13; Sp. p. 1972; Gaz. vol. 161; p. 344.
Miglio, Dominick, Calumet, Mich. Miner's lamp. No. 974,690; Nov. 1; Sp. p. 1388; Gaz. vol. 160; p. 215.
Mignault, Cora A., executrix. (See Mignault, Ludger.)
Mignault, Ludger, deceased, Hallowell, Me.; C. A. Mignault, executrix. Vehicle-brake. No. 968,867; Aug. 30; Sp. p. 6462; Gaz. vol. 157; p. 1126.
Mignola, John, Jr., Alameda, Cal. Vise for saws. No. 952,013; Mar. 15; Sp. p. 3161; Gaz. vol. 152; p. 569.
Mihills, Merrick A., Chicago, Ill. Razor-strop. No. 950,451; Feb. 22; Sp. p. 5620; Gaz. vol. 151; p. 986.
Mihills, Merrick A., Highland Park, Ill. Razor-strop. No. 952,541; Mar. 22; Sp. p. 4222; Gaz. vol. 152; p. 774.
Mihills, Merrick A., Chicago, Ill. Razor-strop. No. 970,939; Sept. 20; Sp. p. 3841; Gaz. vol. 158; p. 655.
Mikesell, George M., Buffalo, N. Y. Device for serrating scissors. No. 966,036; Aug. 2; Sp. p. 415; Gaz. vol. 157; p. 66.
Mikesell, Harry B., Spokane, Wash. Roof-joint. No. 957,980; May 17; Sp. p. 3214; Gaz. vol. 154; p. 566.
Mikolajczak, Anton, Kastrop, Germany, assignor to F. Schniewind, trustee, New York, N. Y. Explosive. No. 948,790; Feb. 8; Sp. p. 2149; Gaz. vol. 151; p. 365.
Mikolasek, Wenceslaus F., assignor of one-fifth to J. F. Schmidt, one-fifth to F. L. Wheeler, and one-fifth to P. O. Stonebraker, Scotland, S. D. Telephone signal attachment. No. 967,409; Aug. 16; Sp. p. 3378; Gaz. vol. 157; p. 582.
Mikorey, Hans, Schöneberg, assignor to Minimax Consolidated Limited, Berlin, Germany. Sprayer for glue-paint, liquid glue, and the like. No. 945,338; Jan. 4; Sp. p. 730; Gaz. vol. 150; p. 112.
Mikorey, Hans, Schöneberg, near Berlin, assignor to Minimax Consolidated Limited, Berlin, Germany. Painting-machine. No. 955,344; Apr. 19; Sp. p. 3561; Gaz. vol. 153; p. 629.
Mikorey, Hans, Schöneberg, near Berlin, assignor to Minimax Consolidated Limited, Berlin, Germany. Sprayer. No. 955,418; Apr. 19; Sp. p. 3723; Gaz. vol. 153; p. 654.
Mikorey, Hans, Schöneberg, near Berlin, assignor to Minimax Consolidated Limited, Berlin, Germany. Air-spraying tank. No. 964,114; July 12; Sp. p. 2398; Gaz. vol. 156; p. 393.
Mikorey, Hans, Schöneberg, near Berlin, assignor to Firm of Minimax Consolidated Limited, Berlin, Germany. Color sprayer or disperser. No. 978,469; Dec. 13; Sp. p. 2267; Gaz. vol. 161; p. 393.
Miks, Walter, Mayfield, Kans. Feeder for alfalfa-mills. No. 955,090; Apr. 12; Sp. p. 3011; Gaz. vol. 153; p. 511.
Milam, Thomas M., *et al.* (See Tiner, John F., assignor.)
Milas, Rudolf R., Rochester, N. Y. Belt and hook uniter. No. 945,185; Jan. 4; Sp. p. 367; Gaz. vol. 150; p. 61.
Milburn, John H., Baltimore, Md. Railograph. No. 952,922; Mar. 22; Sp. p. 5034; Gaz. vol. 152; p. 904.
Milburn, Joseph, Havelock North, New Zealand. Spraying-nozzle. No. 977,748; Dec. 6; Sp. p. 721; Gaz. vol. 161; p. 113.

Alphabetical list of patentees—Continued.

Milch, Maurice, Schenectady, N. Y., assignor to General Electric Company. Alternating-current dynamo-electric machine. No. 977,821; Dec. 6; Sp. p. 871; Gaz. vol. 161; p. 137.

Miles, Casper W., Cincinnati, Ohio. Machine-tool. No. 969,388; Sept. 6; Sp. p. 507; Gaz. vol. 158; p. 81.

Miles, Casper W., Mount Washington, assignor to The American Pad & Textile Company, Greenfield, Ohio. Pad-stuffing machine. No. 953,174; Mar. 29; Sp. p. 5583; Gaz. vol. 152; p. 1017.

Miles, Charles C., Chicago, Ill. Inkstand. No. 953,917; Apr. 5; Sp. p. 462; Gaz. vol. 153; p. 84.

Miles, Don D., Aurora, assignor, by mesne assignments, to Columbian Cotton Harvester Company, Chicago, Ill. Cotton-harvester. No. 976,132; Nov. 15; Sp. p. 4484; Gaz. vol. 160; p. 756.

Miles, Edmund, assignor of one-third to C. F. McCann and one-third to W. J. Dice, Harrisburg, Pa. Electrically-controlled squaring mechanism for shearing-machines. No. 946,457; Jan. 11; Sp. p. 3268; Gaz. vol. 150; p. 525.

Miles, John B., St. Davids, Pa. Treating air for use in metallurgical processes. No. 971,297; Sept. 27; Sp. p. 4578; Gaz. vol. 158; p. 801.

Miles, Joseph F., Paris, Tex. Tobacco-pipe. No. 945,973; Jan. 11; Sp. p. 2152; Gaz. vol. 150; p. 358.

Miles, Samuel A., Philadelphia, Pa. Rotary engine. No. 953,964; Apr. 5; Sp. p. 550; Gaz. vol. 153; p. 99.

Miles, Samuel A., assignor to I. Stead, Philadelphia, Pa. Acetylene-gas generator. No. 957,698; May 10; Sp. p. 2540; Gaz. vol. 154; p. 440.

Miles, Samuel C., Sandy, Oreg. Raker gage and jointer. No. 962,969; June 28; Sp. p. 5713; Gaz. vol. 155; p. 1002.

Miley, Annie C., assignor of one-half to E. P. McCabe, Philadelphia, Pa. Adjustable head and back rest. No. 973,371; Oct. 18; Sp. p. 4105; Gaz. vol. 159; p. 700.

Milholland, Emma, and E. F. Sweitzer, Pittsburg, Pa. Lid and cover for cooking utensils. No. 950,552; Mar. 1; Sp. p. 189; Gaz. vol. 152; p. 32.

Milholland, George A., Pittsburg, Pa. Trestle. No. 949,242; Feb. 15; Sp. p. 3058; Gaz. vol. 151; p. 541.

Milke, Louis J., Baltimore, Md. Automatic control device for elevators. No. 957,077; May 3; Sp. p. 1244; Gaz. vol. 154; p. 197.

Milke, Otto R., Holyoke, Mass. Hinge. No. 948,112; Feb. 1; Sp. p. 691; Gaz. vol. 151; p. 113.

Milke, Otto R., Holyoke, Mass. Hinge. No. 949,490; Feb. 15; Sp. p. 3587; Gaz. vol. 151; p. 625.

Milke, Otto R., assignor of one-half to H. S. Berliner, Washington, D. C. Receptacle for bits and drills. No. 979,981; Dec. 27; Sp. p. 5535; Gaz. vol. 161; p. 956.

Milks, Harry S., Parsons, Kans. Miter-box. No. 952,270; Mar. 15; Sp. p. 3642; Gaz. vol. 152; p. 654.

Millan, Alpheus F., Mannington, W. Va. Water-heater. No. 951,215; Mar. 8; Sp. p. 1513; Gaz. vol. 152; p. 273.

Millar, Harry C., and J. Meyers, Carnegie, Pa. Manufacturing plowshares. No. 963,614; July 5; Sp. p. 1312; Gaz. vol. 156; p. 202.

Millar, James D. (See Ponten, Anders, assignor.)

Millar, James D., Milwaukee, Wis. Safety-razor. No. 971,772; Oct. 4; Sp. p. 547; Gaz. vol. 159; p. 96.

Millar, Preston S. (See Sharp and Millar.)

Millar, Samuel, Dunedin, New Zealand. Harvester. No. 956,127; Apr. 26; Sp. p. 5289; Gaz. vol. 153; p. 929.

Millard, Leo F., Whitewater, Wis. Hydrocarbon-gas burner. No. 960,366; June 7; Sp. p. 265; Gaz. vol. 155; p. 45.

Millard, Mabel, Oak Park, Ill. Undergarment for women. No. 957,360; May 10; Sp. p. 1866; Gaz. vol. 154; p. 325.

Millard, Raymond B. (See Carter, Kenneth, assignor.)

Millay, Frederick W., Haverhill, Mass. Last. No. 975,708; Nov. 15; Sp. p. 3623; Gaz. vol. 160; p. 610.

Milldown, Thomas, Red Lodge, Mont. Runner for automobiles. No. 975,267; Nov. 8; Sp. p. 2686; Gaz. vol. 160; p. 434.

Millea, Thomas D. (See Sickles, Millea, and Carroll.)

Millea, Thomas D., Springfield, Mass. Float-valve. No. 945,569; Jan. 4; Sp. p. 1211; Gaz. vol. 150; p. 187.

Miller, Adolph S., New York, N. Y. Combination muff, bag, and purse. No. 950,571; Mar. 1; Sp. p. 230; Gaz. vol. 152; p. 38.

Miller, Albert F., Kansas City, Kans. Pipe or rod connector. No. 961,981; June 21; Sp. p. 3621; Gaz. vol. 155; p. 637.

Miller, Albert F., Kansas City, Kans. Pipe or rod connector. No. 961,982; June 21; Sp. p. 3623; Gaz. vol. 155; p. 638.

Miller, Almeda C., St. Thomas, Ontario, Canada. Stove-leg caster. No. 967,807; Aug. 16; Sp. p. 4169; Gaz. vol. 157; p. 715.

Miller, Andrew E., Baltimore, Md. Automatic water-heater. No. 959,573; May 31; Sp. p. 6819; Gaz. vol. 154; p. 1161.

Miller, Andrew E., assignor to National Compositype Company, Baltimore, Md. Machine for casting type. No. 963,790; July 12; Sp. p. 1693; Gaz. vol. 156; p. 284.

Miller, Andrew E., assignor to National Compositype Company, Baltimore, Md. Type-casting machine. No. 968,383; Aug. 23; Sp. p. 5419; Gaz. vol. 157; p. 935.

Miller, Annie, Metador, Tex. Window or door screen. No. 963,054; July 5; Sp. p. 54; Gaz. vol. 156; p. 11.

Miller, Athol M. (See Dunn, William A., assignor.)

Miller, Benjamin F., Dixon, Ill. Feed-trough. No. 960,367; June 7; Sp. p. 266; Gaz. vol. 155; p. 45.

Miller, Benjamin, and J. Clegg, Wetaskiwin, Alberta, Canada. Brush-cutting machine. No. 958,417; May 17; Sp. p. 4399; Gaz. vol. 154; p. 719.

Miller, Burt H. (See Miller, Edgar S. and B. H.)

Miller, Calvin P., assignor of one-half to A. W. Ewert, Pierre, S. D., and one-third to The Wilkinson Plough Company, Limited. Gang-plow. No. 959,953; May 31; Sp. p. 7644; Gaz. vol. 154; p. 1289.

Miller, Carl, Rochester, N. Y. Brush. No. 957,078; May 3; Sp. p. 1247; Gaz. vol. 154; p. 198.

Miller, Carl, College Springs, Iowa. Rat or mouse trap. No. 968,966; Aug. 30; Sp. p. 6660; Gaz. vol. 157; p. 1160.

Miller, Carl E. M., New York, N. Y. Truck. No. 976,201; Nov. 22; Sp. p. 4656; Gaz. vol. 160; p. 802.

Miller, Carl H., Cleveland, Ohio. Stove. No. 969,792; Sept. 13; Sp. p. 1390; Gaz. vol. 158; p. 244.

Miller, Carl H., Jr. (See Miller, Charles H. and C. H., Jr.)

Miller, Carroll E., Jr., Grand Rapids, Mich. Machine for packing pipe-joints. No. 947,837; Feb. 1; Sp. p. 99; Gaz. vol. 151; p. 21.

Miller, Charles, Brooklyn, N. Y. Hydroextractor. No. 970,253; Sept. 13; Sp. p. 2390; Gaz. vol. 158; p. 402.

Miller, Charles, assignor to C. M. B. Wrench Company, Syracuse, N. Y. Socket-wrench. No. 952,435; Mar. 15; Sp. p. 3963; Gaz. vol. 152; p. 709.

Miller, Charles, assignor to C. M. B. Wrench Company, Syracuse, N. Y. Ratchet-wrench. No. 952,436; Mar. 15; Sp. p. 3965; Gaz. vol. 152; p. 710.

Miller, Charles A., Hazleton, Pa. Travel-recorder for automobiles and similar vehicles. No. 963,055; July 5; Sp. p. 54; Gaz. vol. 156; p. 11.

Miller, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Spring-box for time-lock movements. No. 954,323; Apr. 5; Sp. p. 1339; Gaz. vol. 153; p. 221.

Miller, Charles F., assignor of one-fourth to P. Weis and one-fourth to C. Weis, Cincinnati, Ohio. Convertible chair. No. 953,483; Mar. 29; Sp. p. 6252; Gaz. vol. 152; p. 1121.

Miller, Charles H., Cleveland, Ohio. Kitchen-range. No. 960,183; May 31; Sp. p. 8129; Gaz. vol. 154; p. 1367.

Miller, Charles H., Cleveland, Ohio. Combined gas and hard-fuel range. No. 969,793; Sept. 13; Sp. p. 1391; Gaz. vol. 158; p. 244.

Miller, Charles H. and C. H., Jr., Cleveland, Ohio. Combined solid-fuel and gas range. No. 960,184; May 31; Sp. p. 8130; Gaz. vol. 154; p. 1367.

Miller, Charles H., and W. A. Bunnell, Decatur, Tex. Non-freezing connection for tanks. No. 973,450; Oct. 18; Sp. p. 4263; Gaz. vol. 159; p. 726.

Miller, Charles I., *et al.* (See Stewart, McElmer, assignor.)

Miller, Charles L., and L. J. Toffelmier, assignors to Junior Monarch Hay Press Co., San Leandro, Cal. Hay-press. No. 965,646; July 26; Sp. p. 5739; Gaz. vol. 156; p. 976.

Miller, Charles R., Whitesboro, Tex. Ant-trap. No. 970,528; Sept. 20; Sp. p. 2957; Gaz. vol. 158; p. 515.

Miller, Charles S., Sunbury, Pa. Meat-tenderer. No. 965,477; July 26; Sp. p. 5349; Gaz. vol. 156; p. 915.

Miller, Christian, New York, N. Y., assignor to Edwards & Company. Annunciator. No. 956,815; May 3; Sp. p. 686; Gaz. vol. 154; p. 108.

Miller, Clarence A., Leadville, Colo. Hinge. No. 968,584; Aug. 30; Sp. p. 5850; Gaz. vol. 157; p. 1032.

Miller, Clarence F., Marlette, Mich. Folding umbrella. No. 956,716; May 3; Sp. p. 465; Gaz. vol. 154; p. 75.

Miller Co., H. C. (See Miller, Henry C., assignor.)

Miller, Conda, Woodbury, Pa. Saw-guide. No. 973,953; Oct. 25; Sp. p. 5318; Gaz. vol. 159; p. 924.

Miller, Cornelius, Providence, R. I. Saw filer and set. No. 976,091; Nov. 15; Sp. p. 4372; Gaz. vol. 160; p. 743.

Miller, Cosby D., St. Joseph, Mo. Automatic shut-off system for gas and liquids. No. 962,648; June 28; Sp. p. 5092; Gaz. vol. 155; p. 890.

Miller, Daniel A., East St. Louis, Ill. Driving and steering mechanism for vehicles. No. 965,478; July 26; Sp. p. 5350; Gaz. vol. 156; p. 916.

Miller, Daniel H., Fort Worth, Tex. Fence-post. No. 951,958; Mar. 15; Sp. p. 3047; Gaz. vol. 152; p. 551.

Miller, David W., Chicago, Ill. Excavating-machine. No. 976,589; Nov. 22; Sp. p. 5545; Gaz. vol. 160; p. 937.

Miller, David W., Chicago, Ill. Excavating-machine. No. 976,590; Nov. 22; Sp. p. 5548; Gaz. vol. 160; p. 937.

Miller, David W., Chicago, Ill. Excavating-machine. No. 977,822; Dec. 6; Sp. p. 878; Gaz. vol. 161; p. 138.

Miller, Donald H., Binghamton, N. Y. Nut-lock. No. 947,080; Jan. 18; Sp. p. 4596; Gaz. vol. 150; p. 759.

Miller, Du Brul & Peters Manufacturing Company, The. (See Rosewarne, Richard E., assignor.)

Miller, Edgar S., assignor to Industrial Engineering Company, Atchison, Kans. Labeling-machine. No. 966,463; Aug. 9; Sp. p. 1304; Gaz. vol. 157; p. 234.

Miller, Edgar S. and B. H., assignors to Industrial Engineering Company, Atchison, Kans. Can-labeling machine. No. 969,715; Sept. 6; Sp. p. 1183; Gaz. vol. 158; p. 192.

Miller, Elizabeth J., Orrville, Ohio. Folding gang-plank. No. 963,918; July 12; Sp. p. 1983; Gaz. vol. 156; p. 326.
Miller, Ernest H., *et al.* (See Minion, George, assignor.)
Miller, Ezra J. D., Barlow, N. D. Draft-equalizer. No. 961,513; June 14; Sp. p. 2624; Gaz. vol. 155; p. 458.
Miller, Francis S., assignor to Harris Air Pump Company, Indianapolis, Ind. Controlling-valve for pumping systems. No. 977,823; Dec. 6; Sp. p. 880; Gaz. vol. 161; p. 138.
Miller, Frank B., Norwalk, Ohio. Earth-anchor. No. 963,791; July 12; Sp. p. 1705; Gaz. vol. 156; p. 284.
Miller, Frank H., Stanwood, Iowa. Railway-tie. No. 955,345; Apr. 19; Sp. p. 3562; Gaz. vol. 153; p. 630.
Miller, Frank H., Stanwood, Iowa. Railway-tie. No. 955,419; Apr. 19; Sp. p. 3724; Gaz. vol. 153; p. 654.
Miller, Frank J., Cleveland, Ohio. Valve-controlling mechanism for internal-combustion engines. No. 962,159; June 21; Sp. p. 4036; Gaz. vol. 155; p. 701.
Miller, Frank J., Cleveland, Ohio. Compression-release for internal-combustion engines. No. 962,160; June 21; Sp. p. 4038; Gaz. vol. 155; p. 701.
Miller, Frank P., Meadville, assignor to Regal Umbrella Company, York, Pa. Folding umbrella. No. 950,337; Feb. 22; Sp. p. 5418; Gaz. vol. 151; p. 950.
Miller, Franklin, Onaga, Kans. Door-holder. No. 962,376; June 21; Sp. p. 4477; Gaz. vol. 155; p. 772.
Miller, Franklin C., Easton, Pa. Automobile-controller lever-lock. No. 962,448; June 28; Sp. p. 4663; Gaz. vol. 155; p. 823.
Miller, Franklin P., Bloomfield, N. J. Ice-cream machine. No. 970,846; Sept. 20; Sp. p. 3665; Gaz. vol. 158; p. 626.
Miller, Fred A., Cadyville, N. Y. Sled. No. 963,615; July 5; Sp. p. 1314; Gaz. vol. 156; p. 202.
Miller, Fred W., assignor of one-third to R. Shober and one-third to J. Trickle, Monroe, Wis. Overhead carrier for mail and the like. No. 951,959; Mar. 15; Sp. p. 3048; Gaz. vol. 152; p. 551.
Miller, Frederick C., Markham, Tex. Tenoning and pointing machine. No. 954,985; Apr. 12; Sp. p. 2816; Gaz. vol. 153; p. 477.
Miller, George A., McKeesport, Pa. Trolley. No. 974,584; Nov. 1; Sp. p. 1167; Gaz. vol. 160; p. 177.
Miller, George B., assignor of one-half to G. Laut, Eau Claire, Wis. Ice-scraper. No. 977,211; Nov. 29; Sp. p. 6930; Gaz. vol. 160; p. 1177.
Miller, George C., Fitchburg, Mass. Feed-water heater and smoke-consumer. No. 972,772; Oct. 11; Sp. p. 2735; Gaz. vol. 159; p. 465.
Miller, George E., Takoma Park, D. C. Hooded electric lamp. No. 953,425; Mar. 29; Sp. p. 6131; Gaz. vol. 152; p. 1101.
Miller, George F., Easton, Pa. Packing. No. 951,827; Mar. 15; Sp. p. 2769; Gaz. vol. 152; p. 507.
Miller, George H., Norwalk, Ohio. Auger-deflector. No. 973,537; Oct. 25; Sp. p. 4460; Gaz. vol. 159; p. 779.
Miller, George J., Doon, Iowa. Cement-block machine. No. 947,116; Jan. 18; Sp. p. 4663; Gaz. vol. 150; p. 770.
Miller, George J., Fremont, Ohio. Window-sash. No. 948,515; Feb. 8; Sp. p. 1557; Gaz. vol. 151; p. 274.
Miller, George M., and S. R. Slaymaker, Lancaster, Pa., assignors to The Slaymaker Lock Manufacturing Corporation. Padlock. No. 973,538; Oct. 25; Sp. p. 4461; Gaz. vol. 159; p. 779.
Miller, Gustaf E., Stratton, Nebr. Wrench. No. 961,632; June 14; Sp. p. 2879; Gaz. vol. 155; p. 498.
Miller, Gustaf E. W., Worcester, Mass. Toilet-seat protector. No. 963,792; July 12; Sp. p. 1706; Gaz. vol. 156; p. 284.
Miller, Harry A., Los Angeles, Cal. Carbureter. No. 962,649; June 28; Sp. p. 5095; Gaz. vol. 155; p. 891.
Miller, Harry C. (See George, Lemuel L., assignor.)
Miller, Harry G., assignor to The Vocalstyle Music Company, Cincinnati, Ohio. Automatically-adjustable spool for perforated music-sheet rolls for mechanical piano-players. No. 977,030; Nov. 29; Sp. p. 6527; Gaz. vol. 160; p. 1114.
Miller, Harry G., assignor to The Vocalstyle Music Company, Cincinnati, Ohio. Automatic adjustable spool for music-sheets for mechanical piano-players. No. 979,536; Dec. 27; Sp. p. 4569; Gaz. vol. 161; p. 806.
Miller, Harry M., Champaign, Ill. Door-securer. No. 961,880; June 21; Sp. p. 3424; Gaz. vol. 155; p. 605.
Miller, Henry, Brooklyn, N. Y. Cigar advertising and lighting device. No. 973,372; Oct. 18; Sp. p. 4106; Gaz. vol. 159; p. 701.
Miller, Henry C., Waterford, N. Y. Stopping mechanism for yarn-winding machines. No. 955,657; Apr. 19; Sp. p. 4249; Gaz. vol. 153; p. 736.
Miller, Henry C., Waterford, N. Y. Machine for dampening the extra-thick end seams of collars. No. 972,084; Oct. 4; Sp. p. 1237; Gaz. vol. 159; p. 210.
Miller, Henry C., Waterford, N. Y. Machine for dampening collars. No. 972,124; Oct. 4; Sp. p. 1313; Gaz. vol. 159; p. 222.
Miller, Henry C., Waterford, N. Y. Dampening-machine. No. 972,125; Oct. 4; Sp. p. 1318; Gaz. vol. 159; p. 223.
Miller, Henry C., assignor to H. C. Miller Co., Milwaukee, Wis. Loose-leaf binder. No. 967,537; Aug. 16; Sp. p. 3635; Gaz. vol. 157; p. 625.
Miller, Henry C., assignor to H. C. Miller Co., Milwaukee, Wis. Loose-leaf binder. No. 967,538; Aug. 16; Sp. p. 3637; Gaz. vol. 157; p. 625.
Miller, Henry J., North Paterson, N. J. Sulky. No. 948,767; Feb. 8; Sp. p. 2108; Gaz. vol. 151; p. 358.
Miller, Henry J., Fort Wayne, Ind. Bag. No. 963,307; July 5; Sp. p. 692; Gaz. vol. 156; p. 99.
Miller, Henry L., St. Louis, Mo. Trolley-wheel guard. No. 961,786; June 21; Sp. p. 3193; Gaz. vol. 155; p. 573.
Miller, Henry S., Cleveland, Ohio. Fare-box. No. 978,327; Dec. 13; Sp. p. 1978; Gaz. vol. 161; p. 344.
Miller, Herman G., Foxlake, Wis. Tank-heater cover. No. 962,449; June 28; Sp. p. 4666; Gaz. vol. 155; p. 823.
Miller, Heyward B. (See Cockrell and Miller.)
Miller, Holla W. (See Schaal, Ernest A., assignor.)
Miller and Horning Company. (See Miller, John W., assignor.)
Miller, Hubert L., Cumberland, Md. Draft-gearing. No. 973,451; Oct. 18; Sp. p. 4265; Gaz. vol. 159; p. 727.
Miller, Hugh, Attica, assignor to O. A. Miller, New York, N. Y. Exhaust-muffler cut-out valve. No. 966,345; Aug. 2; Sp. p. 1034; Gaz. vol. 157; p. 167.
Miller, Isaac L., New York, N. Y. Nut-lock. No. 975,709; Nov. 15; Sp. p. 3624; Gaz. vol. 160; p. 611.
Miller, J. D. (See Tizley, Arthur J., assignor.)
Miller, James H. B., Eugene, Oreg. Adjustable-paddle propeller-wheel. No. 964,293; July 12; Sp. p. 2749; Gaz. vol. 156; p. 454.
Miller, James L. (See Huse and Miller.)
Miller, James M. (See Cook and Miller.)
Miller, James M., Washington, D. C. Silencer. No. 951,770; Mar. 8; Sp. p. 2651; Gaz. vol. 152; p. 458.
Miller, James S., Clinton, Nebr. Railway-tie. No. 948,236; Feb. 1; Sp. p. 933; Gaz. vol. 151; p. 153.
Miller, Jesse E., Albuquerque, N. Mex. Rail-joint. No. 953,215; Mar. 29; Sp. p. 5670; Gaz. vol. 152; p. 1030.
Miller, Jesse E., Knoxville, Tenn. Sewing-machine. No. 973,123; Oct. 18; Sp. p. 3541; Gaz. vol. 159; p. 613.
Miller, John A., Homewood, Ill. Starting apparatus for pleasure-railways. No. 979,875; Dec. 27; Sp. p. 5328; Gaz. vol. 161; p. 922.
Miller, John A., Homewood, Ill. Railway-car for pleasure-railways. No. 979,982; Dec. 27; Sp. p. 5537; Gaz. vol. 161; p. 956.
Miller, John A., Homewood, Ill. Braking apparatus for pleasure-railways. No. 979,983; Dec. 27; Sp. p. 5538; Gaz. vol. 161; p. 956.
Miller, John A., Homewood, Ill. Safety device for pleasure-railways. No. 979,984; Dec. 27; Sp. p. 5540; Gaz. vol. 161; p. 957.
Miller, John A., and H. Bingaman, Harding, S. D. Hayfork. No. 970,940; Sept. 20; Sp. p. 3842; Gaz. vol. 158; p. 656.
Miller, John B., Mount Pleasant Mills, Pa. Spike-puller. No. 971,915; Oct. 4; Sp. p. 869; Gaz. vol. 159; p. 149.
Miller, John C., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Ice-cream freezer. No. 945,570; Jan. 4; Sp. p. 1214; Gaz. vol. 150; p. 188.
Miller, John D. and O. H., Norfolk, Va. Seesaw. No. 951,540; Mar. 8; Sp. p. 2190; Gaz. vol. 152; p. 380.
Miller, John E., assignor to Duncan & Miller Glass Company, Washington, Pa. Vacuum bottle or receptacle. No. 956,395; Apr. 26; Sp. p. 5870; Gaz. vol. 153; p. 1020.
Miller, John F., Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Safety device for railway-cars. No. 950,726; Mar. 1; Sp. p. 577; Gaz. vol. 152; p. 90.
Miller, John J. A., Denver, Colo. Weight-actuated-grip single-running-rope tramway system. No. 968,868; Aug. 30; Sp. p. 6464; Gaz. vol. 157; p. 1126.
Miller, John J. A., Denver, Colo. Bucket operated and supporting grip for single-rope aerial tramways. No. 968,869; Aug. 30; Sp. p. 6467; Gaz. vol. 157; p. 1126.
Miller, John J. A., Denver, Colo. Seal for car-doors, shipping-receptacles, &c. No. 970,529; Sept. 20; Sp. p. 2958; Gaz. vol. 158; p. 515.
Miller, John L., Pawhuska, Okla. Automatic safety-burner. No. 963,457; July 5; Sp. p. 992; Gaz. vol. 156; p. 149.
Miller, John L., Cobb, Fla. Horse-releasing device. No. 979,322; Dec. 20; Sp. p. 4129; Gaz. vol. 161; p. 711.
Miller, John W., Harrisburg, Pa. Packing-gasket. No. 952,128; Mar. 15; Sp. p. 3376; Gaz. vol. 152; p. 607.
Miller, John W., South Sharon, Pa. Detachable and sectional rim for vehicle-wheels. No. 976,900; Nov. 29; Sp. p. 6202; Gaz. vol. 160; p. 1067.
Miller, John W., assignor to The McKee and Bliven Button Company, Muscatine, Iowa. Button-machine. No. 947,995; Feb. 1; Sp. p. 446; Gaz. vol. 151; p. 72.
Miller, John W., assignor, by mesne assignments, to Miller and Horning Company, Chicago, Ill. Ironing-table. No. 955,526; Apr. 19; Sp. p. 3943; Gaz. vol. 153; p. 692.
Miller, Joseph C. (See Breckenkamp, Louis H., assignor.)
Miller, Joshua T. (See Stephens, Francis, assignor.)
Miller, Karl T. (See Alexander, Walter N., assignor.)
Miller, L. E. (See Allsbrooks, William J., assignor.)
Miller, Lauritz, Laramie, Wyo. Spark-arrester. No. 946,804; Jan. 18; Sp. p. 4021; Gaz. vol. 150; p. 667.
Miller, Lawrence, Pittsburg, Pa. Pipe-coupling. No. 960,667; June 7; Sp. p. 878; Gaz. vol. 155; p. 145.

Alphabetical list of patentees—Continued.

Miller, Leonard, assignor of one-half to B. S. Boysen, Brownwood, Tex. Electric sign. No. 959,371; May 24; Sp. p. 6375; Gaz. vol. 154; p. 1066.
Miller, Lewis J., assignor to Lewis J. Miller Company, Bergen, N. Y. Can-capping machine. No. 962,038; June 21; Sp. p. 3742; Gaz. vol. 155; p. 656.
Miller Lock Co. (See Jackson, Arthur C., assignor.)
Miller Lock Co. (See Soley, Frank, assignor.)
Miller, Louis H., Mount Eden, Cal., assignor to L. H. Miller Acetylene Gas Machine Company. Gas-regulator. No. 974,691; Nov. 1; Sp. p. 1390; Gaz. vol. 160; p. 216.
Miller, Luther L. (See Blum, George J., assignor.)
Miller, Luther L., *et al.* (See Peterson, Burt A., assignor.)
Miller, Marshall E., Walker, Mo. Auger apparatus. No. 972,392; Oct. 11; Sp. p. 1899; Gaz. vol. 159; p. 333.
Miller, Martin, Chicago, Ill. Teeter and merry-go-round. No. 956,496; Apr. 26; Sp. p. 6101; Gaz. vol. 153; p. 1056.
Miller, Martin C. (See Wilton, Harry H., assignor.)
Miller, Max, New York, N. Y. Safety-belt for windows. No. 971,062; Sept. 27; Sp. p. 4098; Gaz. vol. 158; p. 725.
Miller, Milo M. (See Hargraves and Miller.)
Miller, Milo M., G. S. Steinberger, and W. H. Hargraves, assignors of one-fourth to C. M. W. Keck, Allentown, Pa. Mail-handling apparatus. No. 957,235; May 10; Sp. p. 1594; Gaz. vol. 154; p. 281.
Miller, Nicholas C., Dodgeville, Wis. Hay-distributer. No. 966,572; Aug. 9; Sp. p. 1594; Gaz. vol. 157; p. 271.
Miller, Oliver A. (See Miller, Hugh, assignor.)
Miller, Oram E., Philadelphia, Pa. Rotary hand device. No. 949,436; Feb. 15; Sp. p. 3488; Gaz. vol. 151; p. 609.
Miller, Oram E., Philadelphia, Pa. Propulsion device for toy vehicles. No. 964,294; July 12; Sp. p. 2751; Gaz. vol. 156; p. 454.
Miller, Orin C., Templeton, Pa. Game apparatus. No. 948,183; Feb. 1; Sp. p. 825; Gaz. vol. 151; p. 136.
Miller, Otis H. (See Miller, John D. and O. H.)
Miller Pasteurizing Machine Company. (See Miller, John C., assignor.)
Miller Pasteurizing Machine Company, The. (See Pfouts, Leroy S., assignor.)
Miller Pasteurizing Machine Company, The. (See Scherer, Henry G., assignor.)
Miller, Philip C., Chicago, Ill. Tubular guard for dust-collectors. No. 970,530; Sept. 20; Sp. p. 2960; Gaz. vol. 158; p. 516.
Miller, Randolph H. (See Roberts and Miller.)
Miller, Reuben, Jr., Pittsburg, Pa. Wrench. No. 955,893; Apr. 26; Sp. p. 4791; Gaz. vol. 153; p. 847.
Miller, Richard, Appleton, Wis. Hoist. No. 958,883; May 24; Sp. p. 5390; Gaz. vol. 154; p. 904.
Miller, Robert, New York, N. Y. Four-cycle internal-combustion engine. No. 979,082; Dec. 20; Sp. p. 3595; Gaz. vol. 161; p. 626.
Miller, Robert, Jr. (See Robinson and Miller.)
Miller, Robert M. (See Jackson, Laird J., assignor.)
Miller, Robert M., Montgomery, Pa. Extension-table. No. 957,236; May 10; Sp. p. 1598; Gaz. vol. 154; p. 282.
Miller, Robert R., Toledo, Ohio, assignor, by mesne assignments, to Pass & Seymour, Inc., Solvay, N. Y. Incandescent-lamp socket. (Reissue.) No. 13,081; Feb. 8; Sp. p. 2533; Gaz. vol. 151; p. 431.
Miller, Romie H., St. Louis, Mo. Mirror-support. No. 970,636; Sept. 20; Sp. p. 3212; Gaz. vol. 158; p. 553.
Miller, Rudolf. (See Bilz, Gustav R., assignor.)
Miller, Samuel F., South Orange, N. J. Apparatus for emptying contents of tanks. No. 967,539; Aug. 16; Sp. p. 3639; Gaz. vol. 157; p. 626.
Miller, Sherman, Seattle, Wash. Frogless switch. No. 952,460; Mar. 22; Sp. p. 4032; Gaz. vol. 152; p. 746.
Miller, Solomon S. (See Ermentrout and Miller.)
Miller, Sprague, Waldo Manufacturing Company, The. (See Webb, Floyd, assignor.)
Miller, Stephen J., Danbury, Conn. Ironing-machine. No. 950,399; Feb. 22; Sp. p. 5528; Gaz. vol. 151; p. 968.
Miller, Thomas B., Kansas City, Mo. Miter-clamp. No. 978,187; Dec. 13; Sp. p. 1674; Gaz. vol. 161; p. 294.
Miller, Thomas S., South Orange, and J. H. Dickinson, Montclair, N. J. Hoisting and conveying apparatus. No. 947,447; Jan. 25; Sp. p. 5435; Gaz. vol. 150; p. 910.
Miller, Vernon J., New York, N. Y. Railway-tie and fastener. No. 978,470; Dec. 13; Sp. p. 2268; Gaz. vol. 161; p. 393.
Miller, Wade H. (See Hulings, James H., assignor.)
Miller, Walter H., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 976,821; Nov. 22; Sp. p. 6008; Gaz. vol. 160; p. 1015.
Miller, Walter L., Santa Fe, N. Mex. Changeable-speed gearing. No. 973,287; Oct. 18; Sp. p. 3914; Gaz. vol. 159; p. 670.
Miller, William, Westfield, N. J. Recovering soakage from barrels, casks, &c. No. 951,328; Mar. 8; Sp. p. 1762; Gaz. vol. 152; p. 310.
Miller, William, Westfield, N. J. Recovering alcohol and other volatile substances from empty barrels, casks, &c. No. 951,507; Mar. 8; Sp. p. 2128; Gaz. vol. 152; p. 369.
Miller, William, Wellington, England. Crucible-furnace. No. 972,703; Oct. 11; Sp. p. 2586; Gaz. vol. 159; p. 441.
Miller, William, assignor, by mesne assignments, to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Machine for treating tobacco, &c. No. 951,650; Mar. 8; Sp. p. 2405; Gaz. vol. 152; p. 417.
Miller, William A. L., San Francisco, Cal. Dispensing-can. No. 978,614; Dec. 13; Sp. p. 2609; Gaz. vol. 161; p. 444.
Miller, William B., Altoona, Pa. Dentist's mandrel. No. 952,437; Mar. 15; Sp. p. 3968; Gaz. vol. 152; p. 710.
Miller, William E., Savannah, Ga. Fountain-brush. No. 950,074; Feb. 22; Sp. p. 4878; Gaz. vol. 151; p. 858.
Miller, William F., Toronto, Ontario, Canada. Sharpening device for blades of lawn-mower knives. No. 946,386; Jan. 11; Sp. p. 3115; Gaz. vol. 150; p. 501.
Miller, William G., Ross township, Allegheny county, Pa. Water-closet. No. 956,988; May 3; Sp. p. 1065; Gaz. vol. 154; p. 167.
Miller, William G., assignor of one-half to F.F. Floyd, Bentonville, Ark. Mail-bag catching and delivery apparatus. No. 947,117; Jan. 18; Sp. p. 4665; Gaz. vol. 150; p. 770.
Miller, William H., Indianola, Iowa. Adjustable cement-mold. No. 972,015; Oct. 4; Sp. p. 1111; Gaz. vol. 159; p. 186.
Miller, William J. (See Frayer and Miller.)
Miller, William J., Coffeyville, Kans. Glass-molding machine. No. 950,941; Mar. 1; Sp. p. 1003; Gaz. vol. 152; p. 160.
Miller, William J., assignor, by mesne assignments, to The Kelly Motor Truck Company, Springfield, Ohio. Air-cooled engine. No. 962,233; June 21; Sp. p. 4173; Gaz. vol. 155; p. 725.
Miller, William L. (See McCabe, Horace B., assignor.)
Miller, William R., Pittsburg, Pa. Gas-producer. No. 947,118; Jan. 18; Sp. p. 4667; Gaz. vol. 150; p. 770.
Miller, William V., Toronto, Ontario, Canada, assignor, by mesne assignments, to The Singer Manufacturing Company, New York, N. Y. Sewing-machine. No. 972,894; Oct. 18; Sp. p. 3031; Gaz. vol. 159; p. 535.
Miller, William V., Brooklyn, assignor to The Manhattan Machine Supply Company, New York, N. Y. Stitch-forming mechanism. No. 974,170; Nov. 1; Sp. p. 126; Gaz. vol. 160; p. 24.
Miller, Wilson S., St. Louis, Mo. Salting-machine. No. 978,615; Dec. 13; Sp. p. 2610; Gaz. vol. 161; p. 445.
Millers Falls Company. (See Leland, John A., assignor.)
Millert, Edgar B., New York, N. Y. Folding bed-couch. No. 977,529; Dec. 6; Sp. p. 263; Gaz. vol. 161; p. 38.
Millet, Denis, Bayonne, France. Apparatus to give suitable form to trousers. No. 965,829; July 26; Sp. p. 6125; Gaz. vol. 156; p. 1038.
Millet, Josiah B. (See Durkee and Millet.)
Millet, Josiah B., assignor to Millet Signal Company, Boston, Mass. Submarine signaling. No. 976,822; Nov. 22; Sp. p. 6009; Gaz. vol. 160; p. 1016.
Millet Signal Company. (See Millet, Josiah B., assignor.)
Millett, Israel. (See Briggs and Millett.)
Millican, James A., Cambridge, Mass. Apparatus for uniting leather blanks. No. 974,987; Nov. 8; Sp. p. 2075; Gaz. vol. 160; p. 339.
Millice, Paul S., Hamilton, Ohio. Flushing apparatus. No. 956,863; May 3; Sp. p. 791; Gaz. vol. 154; p. 126.
Milligan, Edward L., and F. D. Cooley, Detroit, Mich. Valve-rotor for pumps. No. 952,830; Mar. 22; Sp. p. 4857; Gaz. vol. 152; p. 874.
Milligan, Frank C. (See Clore, Withrow, assignor.)
Milligan, Jesse A. (See Kunkel, George W., assignor.)
Milligan, Joseph F., Cheyenne, Wyo. Cooking utensil. No. 946,387; Jan. 11; Sp. p. 3117; Gaz. vol. 150; p. 501.
Milligan, William B., Monticello, Ill. Wagon-bolster. No. 949,590; Feb. 15; Sp. p. 3785; Gaz. vol. 151; p. 658.
Milliken, Elmer E., Bridgewater, Me. Potato pick-up. No. 973,539; Oct. 25; Sp. p. 4463; Gaz. vol. 159; p. 780.
Milliken, Elmer E., Bridgewater, Me. Potato pick-up. No. 973,540; Oct. 25; Sp. p. 4464; Gaz. vol. 159; p. 780.
Milliken, Frank W., assignor of one-half to C. C. Brown, Auburn, Me. Automatic sprinkler alarm and indicator. No. 977,391; Nov. 29; Sp. p. 7292; Gaz. vol. 160; p. 1238.
Milliken, Walter L. (See Shiek, Daniel W., assignor.)
Milliken, Walter L., trustee. (See Shiek, Daniel W., assignor.)
Millinery and Decorating Supply Company. (See Antonucci, Eugene, assignor.)
Millington, David, Berlin, Germany, and H. Yates, Leicester, England. Razor-stropper. No. 957,434; May 10; Sp. p. 2020; Gaz. vol. 154; p. 350.
Millington, Henry G., Dannemora, N. Y. Stovepipe-snips. No. 959,245; May 24; Sp. p. 6134; Gaz. vol. 154; p. 1025.
Millman, Samuel H., Providence, R. I. Ventilator for chimneys or flues. No. 951,508; Mar. 8; Sp. p. 2129; Gaz. vol. 152; p. 369.
Millner, Wallace B. (See Martin and Millner.)
Milloy, Peter D., New York, N. Y., assignor to W. Clayton Lloyd, Wauseon, Ohio. Trolley-retriever and take-up device. No. 968,179; Aug. 23; Sp. p. 5008; Gaz. vol. 157; p. 864.
Mills, Alfred, Superior, Wis. Composition of matter. No. 979,021; Dec. 20; Sp. p. 3463; Gaz. vol. 161; p. 607.

Alphabetical list of patentees—Continued.

Mills, Arthur C., assignor to E. G. Lawrence, Toledo, Ohio. Siphon. No. 959,779; May 31; Sp. p. 7232; Gaz. vol. 154; p. 1228.

Mills, Clyde J., Camden, N. J. Rail-joint. No. 958,418; May 17; Sp. p. 4400; Gaz. vol. 154; p. 719.

Mills, David, and A. J. Irvine, Johannesburg, Transvaal. Means for separating water from steam in steam-boilers. No. 952,831; Mar. 22; Sp. p. 4859; Gaz. vol. 152; p. 875.

Mills, Edward N., assignor of one-third to C. E. Hailstone and one-third to F. M. Graham, San Francisco, Cal. Machine for shaping heavy tools. No. 971,208; Sept. 27; Sp. p. 4413; Gaz. vol. 158; p. 773.

Mills, Frank H., Edgewood, Cal. Stock-chute. No. 970,344; Sept. 13; Sp. p. 2557; Gaz. vol. 158; p. 431.

Mills, Frederick A., New York, N. Y. Pressing device. No. 961,150; June 14; Sp. p. 1831; Gaz. vol. 155; p. 332.

Mills, George M., Jersey City, N. J. Time-recorder for homing-pigeons. No. 952,832; Mar. 22; Sp. p. 4860; Gaz. vol. 152; p. 875.

Mills, George S. (See Rhines, George V., assignor.)

Mills, Gould E., Lawrenceville, Ill. Pin-locking means for clevises. No. 948,237; Feb. 1; Sp. p. 935; Gaz. vol. 151; p. 153.

Mills, Herbert S. (See Sandell, Henry K., assignor.)

Mills, Jacob, Los Angeles, Cal. Nut-lock. No. 971,549; Oct. 4; Sp. p. 84; Gaz. vol. 159; p. 16.

Mills, James W., Flat Lick, Ky., assignor of one-half to J. S. Bell, Wooldridge, Tenn. Pencil-holder. No. 949,591; Feb. 15; Sp. p. 3786; Gaz. vol. 151; p. 659.

Mills, James W., assignor to Daniel W. Clark, Barboursville, Ky. Ironing-table. No. 971,462; Sept. 27; Sp. p. 4881; Gaz. vol. 158; p. 855.

Mills, Jessie A., executrix. (See St. John, Charles P.)

Mills, Joseph H., Detroit, Tex. Mail-box. No. 964,295; July 12; Sp. p. 2755; Gaz. vol. 156; p. 455.

Mills Novelty Company. (See Crawford, Carl H., assignor.)

Mills Novelty Company. (See Stambaugh, George W., assignor.)

Mills, Peter, *et al.* (See Wynder, George, assignor.)

Mills, Thomas G., Chicago, Ill. Gun. No. 953,426; Mar. 29; Sp. p. 6133; Gaz. vol. 152; p. 1101.

Mills, Wilber C., Denver, Colo. Automatic brake for phonographs. No. 957,570; May 10; Sp. p. 2282; Gaz. vol. 154; p. 395.

Mills, William T., Camden, N. J. Packing-ring. No. 955,527; Apr. 19; Sp. p. 3946; Gaz. vol. 153; p. 692.

Mills, Willis L., and F. F. Gerhard, Kingwood, Pa. Folding umbrella. No. 956,396; Apr. 26; Sp. p. 5872; Gaz. vol. 153; p. 1021.

Millsaps, Clarence W., Millsaps, Cal. Feed-bag for horses. No. 955,183; Apr. 19; Sp. p. 3202; Gaz. vol. 153; p. 575.

Millsaps Company, The. (See Millsaps, Daniel W., assignor.)

Millsaps, Daniel W., assignor to The Millsaps Company, Marion, S. C. Handle for sliding doors. No. 972,773; Oct. 11; Sp. p. 2736; Gaz. vol. 159; p. 465.

Millspaugh, Herman L., and F. S. Vincent, Reed City, assignors of one-third to G. D. Westover, Cadallic, Mich. Electric stove. No. 946,643; Jan. 18; Sp. p. 3650; Gaz. vol. 150; p. 611.

Millspaugh, William H., Sandusky, Ohio. Suction-slice. No. 957,981; May 17; Sp. p. 3214; Gaz. vol. 154; p. 566.

Millspaugh, William H., assignor to The Sandusky Foundry & Machine Company, Sandusky, Ohio. Suction-box vacuum-regulator for paper-machines. No. 971,298; Sept. 27; Sp. p. 4580; Gaz. vol. 158; p. 802.

Millspaugh, William H., assignor of one-third to J. J. Dauch, one-third to W. F. Harbrecht, Sandusky, and one-third to F. Boerger, Delphos, Ohio. Suction-roll for paper-machines. (Reissue.) No. 13,100; Apr. 12; Sp. p. 3068; Gaz. vol. 153; p. 520.

Millville Machine Company. (See Fredrick, William D., assignor.)

Milne, Robert, assignor to Rockford Drilling Machine Company, Rockford, Ill. Safety-clutch for drill-feeds. No. 945,571; Jan. 4; Sp. p. 1220; Gaz. vol. 150; p. 188.

Milne, Robert, assignor to Rockford Drilling Machine Company, Rockford, Ill. Gearing. No. 968,488; Aug. 23; Sp. p. 5625; Gaz. vol. 157; p. 971.

Milne, Robert, Rockford, Ill., assignor to Rockford Drilling Machine Company. Centering-machine. No. 968,489; Aug. 23; Sp. p. 5627; Gaz. vol. 157; p. 971.

Milner, Albert R., assignor to The A. R. Milner Seating Company, Canal Dover, Ohio. School desk and seat. No. 955,184; Apr. 19; Sp. p. 3203; Gaz. vol. 153; p. 575.

Milner, Edgar, Richmond Hill, N. Y. Display-frame for cards. No. 949,328; Feb. 15; Sp. p. 3242; Gaz. vol. 151; p. 570.

Milner, Hans, Budapest, Austria-Hungary. Pump for comparatively incompressible liquids. No. 972,558; Oct. 11; Sp. p. 2269; Gaz. vol. 159; p. 392.

Milner, Jay S. (See Gilson, Samuel H., assignor.)

Milson, John R., Boston, Mass., assignor, by mesne assignments, to Lister-Noble Roller Company. Drawing-off rolls. No. 953,345; Mar. 29; Sp. p. 5953; Gaz. vol. 152; p. 1073.

Milton Bradley Company. (See Atkins, Percy B., assignor.)

Milton Bradley Company. (See Hastings, Cornelius C., assignor.)

Milton, John F., assignor of one-third to F. C. Bailey and one-third to C. J. Grainger, Palestine, Tex. Rotary engine. No. 951,960; Mar. 15; Sp. p. 3051; Gaz. vol. 152; p. 552.

Milton, John L., assignor of one-half to T. K. Webster, Chicago, Ill. Electric generator. No. 959,954; May 31; Sp. p. 7647; Gaz. vol. 154; p. 1289.

Milton, Seneca G., Franklin, Pa. Pulling-machine. No. 963,237; July 5; Sp. p. 530; Gaz. vol. 156; p. 75.

Milum, Leonard R. (See Ekleberry, Joseph O., assignor.)

Milwaukee Building Company. (See Fellows, Thomas, assignor.)

Milwaukee Casket Company. (See Swartz, Warren E., assignor.)

Milwaukee Coke and Gas Company, The. (See Greim, Otto F., assignor.)

Milwaukee Grain Dryer Company. (See Wegner, Frederick A., assignor.)

Milwaukee Separator Company, The. (See Hartmann, Frederick W. and W. C., assignors.)

Milwaukee Separator Company, The. (See Hartmann, William C., assignor.)

Mimmack, Robert B., assignor to Ford and Mimmack, Rochester, N. Y. Tool for nailing pictures in frames. No. 956,128; Apr. 26; Sp. p. 5291; Gaz. vol. 153; p. 929.

Minahan, Timothy F., Troy, N. Y. Dampening-machine. No. 951,425; Mar. 8; Sp. p. 1962; Gaz. vol. 152; p. 341.

Minato, Longhair I., Plano, Idaho. Shoe-polishing machine. No. 974,585; Nov. 1; Sp. p. 1169; Gaz. vol. 160; p. 177.

Mine and Smelter Supply Company, The. (See Wilfley, Arthur R., assignor.)

Mineer, Edward, Wheeling, W. Va. Incandescent gas-lamp. No. 975,561; Nov. 15; Sp. p. 3313; Gaz. vol. 160; p. 562.

Minehan, William A. (See Jones and Minehan.)

Miner, Alton T., New London, Conn. Hose-gate. No. 950,111; Feb. 22; Sp. p. 4951; Gaz. vol. 151; p. 871.

Miner, Charles T. J., Kansas City, Mo. Current-motor. No. 969,794; Sept. 13; Sp. p. 1392; Gaz. vol. 158; p. 244.

Miner Engineering Company. (See Miner, Frank J., assignor.)

Miner, Frank J., assignor to Miner Engineering Company, Detroit, Mich. Prime mover. No. 979,323; Dec. 20; Sp. p. 4131; Gaz. vol. 161; p. 711.

Miner, Frank J., assignor to Miner Engineering Company, Detroit, Mich. Blower or pump. No. 979,324; Dec. 20; Sp. p. 4134; Gaz. vol. 161; p. 712.

Miner, Herkimer L., St. Louis, Mo. Automatic air and steam connection. No. 951,196; Mar. 8; Sp. p. 1474; Gaz. vol. 152; p. 267.

Miner, Howard A. (See Wainwright and Miner.)

Miner, Raymond C., assignor of one-half to O. W. Franberg, Sioux Falls, S. D. Vehicle-loading device. No. 954,198; Apr. 5; Sp. p. 1061; Gaz. vol. 153; p. 180.

Miner, William H. (See Bundy, Cyrus L., assignor.)

Miner, William H. (See O'Connor, John F., assignor.)

Miner, William H. (See Patch, Calvin B., assignor.)

Miner, William H. (See Schroder, Herman F., assignor.)

Miner, William H., Chicago, Ill. Bolster for cars or other vehicles. No. 953,048; Mar. 29; Sp. p. 5293; Gaz. vol. 152; p. 975.

Miner, William H., Chicago, Ill. Friction draft-rigging. No. 966,464; Aug. 9; Sp. p. 1311; Gaz. vol. 157; p. 234.

Minerallac Electric Company. (See Kinney, Frank F., assignor.)

Minerals Separation Limited. (See Hoover, Theodore, assignor.)

Minerals Separation Limited. (See Sulman, Henry, assignor.)

Mingo, William, Jr., Weimar, Tex. Automatic stopping mechanism for trains. No. 973,954; Oct. 25; Sp. p. 5320; Gaz. vol. 159; p. 924.

Minimax Consolidated Limited. (See Breslauer, Max, assignor.)

Minimax Consolidated Limited. (See Mikorey, Hans, assignor.)

Minimax Consolidated Limited. (See Schmidt, Karl, assignor.)

Minion, George, assignor of one-fifth to J. Belle, one-fifth to C. H. Scheuer, one-fifth to E. H. Miller, and one-fifth to J. Robertson, Chicago, Ill. Furnace-grate. No. 979,783; Dec. 27; Sp. p. 5118; Gaz. vol. 161; p. 890.

Minkiewitz, William J., Anamoose, N. D. Moistening device. No. 956,129; Apr. 26; Sp. p. 5294; Gaz. vol. 153; p. 930.

Minlos, Ludwig, Cologne-Ehrenfeld, Germany. Apparatus for delivering liquids. No. 978,047; Dec. 6; Sp. p. 1345; Gaz. vol. 161; p. 216.

Minneapolis Motor & Truck Co. (See Jahnke, Fred A., assignor.)

Minnich, Frederick F. (See Morrison and Minnich.)

Minnich, Mary C. (See Minnich, Simon B., assignor.)

Minnich, Simon B., assignor to M. C. Minnich, Landisville, Pa. Building construction. No. 946,066; Jan. 11; Sp. p. 2334; Gaz. vol. 150; p. 388.

Alphabetical list of patentees—Continued.

Minnich, Simon B., assignor to M. C. Minnich, Landisville, Pa. Truck. No. 949,774; Feb. 22; Sp. p. 4168; Gaz. vol. 151; p. 753.
Minnick, William F., assignor to The Harris Automatic Press Company, Niles, Ohio. Gage for feed-tables. No. 961,457; June 14; Sp. p. 2501; Gaz. vol. 155; p. 440.
Minnis, Henry M., assignor to S. Potts and C. D. Love, Wylie, Tex. Fire-engine. No. 976,133; Nov. 15; Sp. p. 4486; Gaz. vol. 160; p. 757.
Minns, Earnest H., Rochester, N. Y., assignor to Defiance Lantern & Stamping Co., Limited. Tubular lantern. No. 978,328; Dec. 13; Sp. p. 1981; Gaz. vol. 161; p. 345.
Minogue, Martin T., Philadelphia, Pa., assignor to The Superior Motor Specialty Company, New York, N. Y. Spark-plug for explosive-engines. No. 973,873; Oct. 25; Sp. p. 5163; Gaz. vol. 159; p. 897.
Minor, Charles. (See Watrous and Minor.)
Minor, Henry S., Bakersfield, Cal. Offset for sawmill-carriages. No. 950,183; Feb. 22; Sp. p. 5107; Gaz. vol. 151; p. 896.
Minor, Robert W. V., Clifton Hill, Mo. Spectacles. No. 955,278; Apr. 19; Sp. p. 3414; Gaz. vol. 153; p. 607.
Minshull, Robert, assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Making slotted tubular tracks. No. 977,118; Nov. 29; Sp. p. 6725; Gaz. vol. 160; p. 1145.
Minteer, Joseph M., New Wilmington, Pa. Folding umbrella. No. 945,042; Jan. 4; Sp. p. 69; Gaz. vol. 150; p. 13.
Mintel, William F., Pawtucket, R. I. Embroidery-hoop. No. 951,509; Mar. 8; Sp. p. 2131; Gaz. vol. 152; p. 369.
Minter, H. F. (See Damron, Frank E., assignor.)
Mintier, Thomas H., and H. J. Jennings, Texarkana, Ark., assignors to H. R. Segnar, Texarkana, Tex. Gas-burner. No. 951,828; Mar. 15; Sp. p. 2771; Gaz. vol. 152; p. 507.
Minton, Charles M., Philomath, Oreg. Saw-handle. No. 952,923; Mar. 22; Sp. p. 5037; Gaz. vol. 152; p. 905.
Minton, John S., assignor of one-half to D. Wort, Kearney, Nebr. Concrete-block machine. No. 973,288; Oct. 18; Sp. p. 3916; Gaz. vol. 159; p. 670.
Minyard, Sam J., Brookland, assignor of one-half to T. S. Richardson, Kirbyville, Tex. Plow. No. 975,562; Nov. 15; Sp. p. 3314; Gaz. vol. 160; p. 563.
Miolans, Dominique, Paris, France. Combined clutch and brake. No. 975,629; Nov. 15; Sp. p. 3448; Gaz. vol. 160; p. 585.
Miotke, Joseph, Milwaukee, Wis. Filing device for scraper-blades. No. 951,961; Mar. 15; Sp. p. 3054; Gaz. vol. 152; p. 552.
Miotke, Joseph, Milwaukee, Wis. Sharpening and setting device for scraper-blades. No. 968,180; Aug. 23; Sp. p. 5013; Gaz. vol. 157; p. 864.
Miracle, Merideth W., Ardmore, Okla. Garment-supporter. No. 950,051; Feb. 22; Sp. p. 4844; Gaz. vol. 151; p. 852.
Mircs Fuel-Oil Equipment Company. (See Scrimgeour William, assignor.)
Mirfield, George E., assignor to Youngstown Sheet & Tube Company, Youngstown, Ohio. Crimping-drum. No. 963,616; July 5; Sp. p. 1315; Gaz. vol. 156; p. 202.
Mirfield, George E., assignor to Youngstown Sheet & Tube Co., Youngstown, Ohio. Wire-fence-making machine. No. 969,552; Sept. 6; Sp. p. 863; Gaz. vol. 158; p. 136.
Mirick, Joseph C., Pueblo, Colo. Pressure-reducing device for high-pressure boilers. No. 955,977; Apr. 26; Sp. p. 4962; Gaz. vol. 153; p. 877.
Mirlach, George G., Beaver Dam, Wis. Rubber-heel protector. No. 963,308; July 5; Sp. p. 694; Gaz. vol. 156; p. 99.
Mishler, Melvin S., Littleriver, Fla. Acetylene-gas generator. No. 972,016; Oct. 4; Sp. p. 1112; Gaz. vol. 159; p. 186.
Mishler, Menno S., Akron, Ohio. Roller or wheeled skate. No. 975,446; Nov. 15; Sp. p. 3055; Gaz. vol. 160; p. 522.
Miskin, Arthur R., assignor to Miskin Spring Wheel Company, Idaho Falls, Idaho. Spring-wheel. No. 950,942; Mar. 1; Sp. p. 1009; Gaz. vol. 152; p. 161.
Miskin Spring Wheel Company. (See Miskin, Arthur R., assignor.)
Misland, Joseph A., Bayonne, N. J. Suspension for train-lighting dynamos. No. 960,368; June 7; Sp. p. 268; Gaz. vol. 155; p. 45.
Misner, Edgar D., St. Louis, assignor of two-thirds to W. C. Renfrow, Kansas City, Mo. Excelsior-machine. No. 956,130; Apr. 26; Sp. p. 5296; Gaz. vol. 153; p. 930.
Misner, Edgar D., assignor of one-third to J. E. Rutledge and one-third to J. Scullen, St. Louis, Mo. Molding-machine. No. 958,520; May 17; Sp. p. 4604; Gaz. vol. 154; p. 755.
Missall, John, and A. Sommer, New York, N. Y. Non-refillable bottle. No. 971,916; Oct. 4; Sp. p. 872; Gaz. vol. 159; p. 150.
Mississippi Wire Glass Company. (See Hoyer, Julius W., assignor.)
Missouri Wire and Rolled Glass Manufacturing Company. (See Meyer, Anton, assignor.)
Mitats, Jacinto, New York, N. Y., assignor to Mitats Marble Manufacturing Company. Compound ladle. No. 978,616; Dec. 13; Sp. p. 2611; Gaz. vol. 161; p. 445.
Mitats, Jacinto, New York, N. Y., assignor to Mitats Marble Manufacturing Company. Manufacture of imitation-stone blocks. No. 978,617; Dec. 13; Sp. p. 2612; Gaz. vol. 161; p. 445.
Mitats Marble Manufacturing Company. (See Mitats, Jacinto, assignor.)
Mitchell, Brutus I. H., Onawa, Iowa. Tug attachment. No. 977,530; Dec. 6; Sp. p. 266; Gaz. vol. 161; p. 38.
Mitchell, C. M. (See Pasche, John B., assignor.)
Mitchell, Charles, Philadelphia, Pa. Reinforced-concrete fence. No. 955,528; Apr. 19; Sp. p. 3947; Gaz. vol. 153; p. 693.
Mitchell, Charles E., Decatur, Ill., assignor of one-fourth to H. L. Nixon and one-fourth to C. T. Payton, St. Louis, Mo. Bolt-feeding machine. No. 976,483; Nov. 22; Sp. p. 5316; Gaz. vol. 160; p. 901.
Mitchell, Cliff W., Floydada, Tex. Oil-burner. No. 969,647; Sept. 6; Sp. p. 1053; Gaz. vol. 158; p. 169.
Mitchell, Dwight C., Gasport, N. Y. Game apparatus. No. 957,472; May 10; Sp. p. 2085; Gaz. vol. 154; p. 361.
Mitchell, Eben A., Lynn, Mass. Agitator. No. 955,978; Apr. 26; Sp. p. 4963; Gaz. vol. 153; p. 877.
Mitchell, Edgar S., and G. A. Campbell, Homer, La. Extension car-step. No. 955,658; Apr. 19; Sp. p. 4253; Gaz. vol. 153; p. 736.
Mitchell, Frederick, and F. Gunn, Manchester, England. Driving-belt-fastening device. No. 966,697; Aug. 9; Sp. p. 1834; Gaz. vol. 157; p. 313.
Mitchell, Frederick G., Glencoe, Md. Wagon-tongue-yoke-attaching device. No. 970,254; Sept. 13; Sp. p. 2392; Gaz. vol. 158; p. 403.
Mitchell, Garrett V., Bayonne, N. J. Hawser-securing device for scows. No. 972,895; Oct. 18; Sp. p. 3042; Gaz. vol. 159; p. 536.
Mitchell, Garrett V., Bayonne, N. J. Automatically-operating dumping-scow. No. 972,896; Oct. 18; Sp. p. 3043; Gaz. vol. 159; p. 536.
Mitchell, George, Swansea, Ariz. Slag steam-generator. No. 968,870; Aug. 30; Sp. p. 6471; Gaz. vol. 157; p. 1127.
Mitchell, George S., Mullikin, Ky. Gate-latch. No. 946,388; Jan. 11; Sp. p. 3117; Gaz. vol. 150; p. 501.
Mitchell, Harry C., London, England. Decorative treatment of paper and other substances. No. 947,973; Feb. 1; Sp. p. 411; Gaz. vol. 151; p. 65.
Mitchell, Harry R., North Yakima, Wash. Bench-hook. No. 960,369; June 7; Sp. p. 269; Gaz. vol. 155; p. 46.
Mitchell, Howard W., Sanborn, Minn. Blackboard-eraser. No. 948,184; Feb. 1; Sp. p. 827; Gaz. vol. 151; p. 136.
Mitchell, Isaac L., Cedar Rapids, Iowa. Stone-crushing machine. No. 947,667; Jan. 25; Sp. p. 5928; Gaz. vol. 150; p. 985.
Mitchell, Isaac L., Cedar Rapids, Iowa. Crushing-machine. No. 947,669; Jan. 25; Sp. p. 5930; Gaz. vol. 150; p. 986.
Mitchell, Isaac L., Cedar Rapids, Iowa. Crushing-machine. No. 947,737; Jan. 25; Sp. p. 6047; Gaz. vol. 150; p. 1008.
Mitchell, Isaac L., Cedar Rapids, Iowa. Ore-crusher. No. 965,830; July 26; Sp. p. 6126; Gaz. vol. 156; p. 1039.
Mitchell, Jacob, Detroit, assignor to Mitchell Shoe-Lining Company, Royal Oak, Mich. Combination shoe quarter, lining, pull-strap, and extension double backstay. No. 962,650; June 28; Sp. p. 5097; Gaz. vol. 155; p. 891.
Mitchell, James V., Martinsville, Ind. Combined pen and seal. No. 966,938; Aug. 9; Sp. p. 2390; Gaz. vol. 157; p. 392.
Mitchell, James V., Martinsville, Ind. Sash-lock. No. 966,939; Aug. 9; Sp. p. 2391; Gaz. vol. 157; p. 392.
Mitchell, John A., Tulsa, Okla. Liquid-fuel burner. No. 963,617; July 5; Sp. p. 1317; Gaz. vol. 156; p. 203.
Mitchell, John B., Clapham Junction, London, England. Setting of barometers. No. 951,140; Mar. 8; Sp. p. 1375; Gaz. vol. 152; p. 250.
Mitchell, John M., assignor of one-half to G. W. Jeffers, Joppa, Ala. Stump-puller. No. 959,372; May 24; Sp. p. 6381; Gaz. vol. 154; p. 1066.
Mitchell, John T. H., Chicago, Ill. Advertising device. No. 954,122; Apr. 5; Sp. p. 882; Gaz. vol. 153; p. 153.
Mitchell, Jonas L., Denver, Colo. Pneumatic drill. No. 977,894; Dec. 6; Sp. p. 1029; Gaz. vol. 161; p. 163.
Mitchell, Lester L. (See Parker, Joseph N., assignor.)
Mitchell, Lillian M. (See Linn, George E., assignor.)
Mitchell, Max L. (See Kantner, Lewis R., assignor.)
Mitchell, Preston C., Horner, Mich. Seed-hopper. No. 971,917; Oct. 4; Sp. p. 873; Gaz. vol. 159; p. 150.
Mitchell, Ransom Y., Findlay, Ohio. Baling-press. No. 979,022; Dec. 20; Sp. p. 3463; Gaz. vol. 161; p. 607.
Mitchell, Robert J., Marion, Ohio. Locomotive ash-pan. No. 946,553; Jan. 18; Sp. p. 3466; Gaz. vol. 150; p. 583.
Mitchell Shoe-Lining Company. (See Mitchell, Jacob, assignor.)
Mitchell, Thomas J., and J. A. McCreary, Uniontown, Pa. Machine for quenching coke. No. 956,397; Apr. 26; Sp. p. 5874; Gaz. vol. 153; p. 1021.
Mitchell, Wickliff B., Bedford, Ind. Harrow, drag, and pulverizer. No. 953,792; Apr. 5; Sp. p. 217; Gaz. vol. 153; p. 40.
Mitchell, Wickliff B., Bedford, Ind. File for accounts. No. 963,919; July 12; Sp. p. 1985; Gaz. vol. 156; p. 326.

Mitchell, William, Fairmount, N. D. Four-horse equalizer. No. 962,234; June 21; Sp. p. 4174; Gaz. vol. 155; p. 725.
Mitchell, William C., *et al.* (See Watson, Alexander, assignor.)
Mitchell, William C., Sydney, Nova Scotia, Canada. Water-cooled valve. No. 956,538; May 3; Sp. p. 60; Gaz. vol. 154; p. 13.
Mitchell, William C., Sydney, Nova Scotia, Canada. Centrifugal drying-machine. No. 966,573; Aug. 9; Sp. p. 1597; Gaz. vol. 157; p. 272.
Mitchell, William C., Sydney, Nova Scotia, Canada. Apparatus for handling coke, &c. No. 977,119; Nov. 29; Sp. p. 6727; Gaz. vol. 160; p. 1145.
Mitchell, William C., and G. A. Harrison, La Fayette, Ind. Carriage-top. No. 966,037; Aug. 2; Sp. p. 417; Gaz. vol. 157; p. 67.
Mitchell, William N., Chicago, Ill., assignor to The International Text Book Company, Scranton, Pa. Speed indicator and recorder. No. 960,568; June 7; Sp. p. 675; Gaz. vol. 155; p. 111.
Mittag, Ernst, Berlin, Germany. Railway system. No. 968,384; Aug. 23; Sp. p. 5427; Gaz. vol. 157; p. 936.
Mittleman, Jacob M., Philadelphia, Pa. Sled-runner attachment for vehicle-wheels. No. 965,313; July 26; Sp. p. 4995; Gaz. vol. 156; p. 860.
Mix, Edgar W., Paris, France, assignor to General Electric Company. Guide-bearing. No. 953,216; Mar. 29; Sp. p. 5672; Gaz. vol. 152; p. 1031.
Mixon, James F., and O. H. Ford, Manatee, Fla. Garden-plow and seed-planter. No. 976,675; Nov. 22; Sp. p. 5709; Gaz. vol. 160; p. 966.
Mixter, George W. (See Sklovsky and Mixter.)
Mixter, Jason W., Plymouth, Mass. Saw-gummer. No. 963,793; July 12; Sp. p. 1708; Gaz. vol. 156; p. 285.
Miyabara, Jiro, Tokyo, Japan. Water-tube boiler. No. 973,541; Oct. 25; Sp. p. 4466; Gaz. vol. 159; p. 780.
Mjorkningsmaskinaktiebolaget. (See Wawrinsky and Albihn, assignors.)
Mlitz, August, Charlottenburg, Germany. Lubricator. No. 955,420; Apr. 19; Sp. p. 3725; Gaz. vol. 153; p. 654.
Moak, Eugene H. (See Sevison and Moak.)
Moan, Allen J., *et al.* (See Larouette, Henry P., assignor.)
Moats, Harlan G., assignor of one-half to E. O. Gardner, Villisca, Iowa. Molding-machine for concrete tanks, silos, cisterns, and the like. No. 947,927; Feb. 1; Sp. p. 304; Gaz. vol. 151; p. 51.
Moberg, Oscar, assignor to Landers, Frary and Clark, New Britain, Conn. Grinding-mill. No. 953,151; Mar. 29; Sp. p. 5538; Gaz. vol. 152; p. 1010.
Moberley, Oscar R., Matagorda, Tex. Acetylene-gas generator. No. 956,497; Apr. 26; Sp. p. 6102; Gaz. vol. 153; p. 1056.
Mobius, R. M. (See Beyerle, Frank C., assignor.)
Mobius, Robert M., assignor to F. K. De Borde, San Diego, Cal. Sea power-generator. No. 962,651; June 28; Sp. p. 5098; Gaz. vol. 155; p. 892.
Mobley, Edwin H., Hillside, Pa. Sound-box for talking-machines. No. 955,894; Apr. 26; Sp. p. 4793; Gaz. vol. 153; p. 848.
Mobley, Richard, St. Louis, Mo. Railway road-bed. No. 966,465; Aug. 9; Sp. p. 1312; Gaz. vol. 157; p. 234.
Moch, Eugene W., New York, N. Y. Holder for plumes and similar articles. No. 979,876; Dec. 27; Sp. p. 5330; Gaz. vol. 161; p. 922.
Mochau, Lars M., Burnside, Conn. Automatic door-fastener. No. 946,764; Jan. 18; Sp. p. 3913; Gaz. vol. 150; p. 652.
Model Heating Company. (See Pfahler, Alfred E., assignor.)
Modern Gasoline Lighting Company. (See Zierlein, Richard W., assignor.)
Modern Improvements Manufacturing Company, The. (See Klaiber, Maximilian, assignor.)
Modern, Samuel, New York, N. Y. Collapsible box. No. 979,877; Dec. 27; Sp. p. 5331; Gaz. vol. 161; p. 922.
Modern Steel Structural Company. (See Israel, Homer W., assignor.)
Modern Tool Company, The. (See Loomis, Gilbert J., assignor.)
Moderwell, Robert. (See Savage, William W., assignor.)
Modlin, Frank, Sioux City, Iowa. Auto-tire. No. 969,389; Sept. 6; Sp. p. 509; Gaz. vol. 158; p. 81.
Modotti, Joseph, and E. Quagelli, San Francisco, Cal. Stone-polishing machine. No. 950,400; Feb. 22; Sp. p. 5531; Gaz. vol. 151; p. 969.
Modrall, Don A., Robert Lee, Tex. Compound tool. No. 977,672; Dec. 6; Sp. p. 569; Gaz. vol. 161; p. 86.
Moe, Alfred M., Page, N. D. Adjustable spring weed-hook. No. 947,119; Jan. 18; Sp. p. 4670; Gaz. vol. 150; p. 771.
Moe, Eldor H., Salt Lake City, Utah. Ore-concentrator. No. 972,463; Oct. 11; Sp. p. 2041; Gaz. vol. 159; p. 358.
Moe, Ivar, assignor of one-half to J. F. Noll, Duluth, Minn. Calculating-machine. No. 964,296; July 12; Sp. p. 2756; Gaz. vol. 156; p. 455.
Moe, Olav, Sioux City, Iowa, assignor to Kennedy Optical Company, Detroit, Mich. Instrument for measuring and determining the axes of lenses. No. 965,211; July 26; Sp. p. 4769; Gaz. vol. 156; p. 824.
Moe, Sivert, Chicago, Ill. Numbering-machine. No. 952,682; Mar. 22; Sp. p. 4531; Gaz. vol. 152; p. 824.
Moe, Theodore O. (See Meland and Moe.)
Moebes, Otto B., New Decatur, Ala. Ink-blotter. No. 950,540; Mar. 1; Sp. p. 165; Gaz. vol. 152; p. 28.
Moebus, Henry E., Boston, assignor to H. W. Brown, trustee, Brookline, Mass. Resilient wheel. No. 976,591; Nov. 22; Sp. p. 5552; Gaz. vol. 160; p. 938.
Moebus, Henry E., Boston, assignor to H. W. Brown, trustee, Brookline, Mass. Tire. No. 979,325; Dec. 20; Sp. p. 4137; Gaz. vol. 161; p. 712.
Moeke, Geert, Zeeland, Mich. Silo. No. 946,389; Jan. 11; Sp. p. 3118; Gaz. vol. 150; p. 502.
Moeller, William P. F., Newport News, Va. Brewing. No. 963,458; July 5; Sp. p. 994; Gaz. vol. 156; p. 149.
Moen, Nels L., Wrangel, Alaska, assignor of one-half to I. Handseth, Seattle, Wash. Floating fish-trap. No. 969,970; Sept. 13; Sp. p. 1793; Gaz. vol. 158; p. 304.
Moenus Machine Works Ltd. (See Heldmann, Peter, assignor.)
Moenus Machine Works. (See Wüst, Wilhelm A., assignor.)
Moews, Paul, Detroit, Mich. Spectacle-mounting. No. 975,778; Nov. 15; Sp. p. 3770; Gaz. vol. 160; p. 634.
Moffatt, Ansil, Indianapolis, Ind. Pigment. No. 973,373; Oct. 18; Sp. p. 4108; Gaz. vol. 159; p. 701.
Moffatt, Ansil, Indianapolis, Ind. Making pigments. No. 973,374; Oct. 18; Sp. p. 4110; Gaz. vol. 159; p. 701.
Moffett, Floyd, Forest, Ohio. Roofing. No. 953,217; Mar. 29; Sp. p. 5674; Gaz. vol. 152; p. 1031.
Moffett, Frank W. (See Monson, August A., assignor.)
Moffett, Thomas S., Spokane, Wash. Three-horse evener. No. 950,943; Mar. 1; Sp. p. 1010; Gaz. vol. 152; p. 161.
Moffett, Thomas S., Spokane, Wash. Clevis. No. 961,881; June 21; Sp. p. 3425; Gaz. vol. 155; p. 605.
Moffett, Thomas S., Spokane, Wash. Draft device. No. 971,393; Sept. 27; Sp. p. 4764; Gaz. vol. 158; p. 838.
Moffett, Thomas S., Spokane, Wash. Harness. No. 972,897; Oct. 18; Sp. p. 3048; Gaz. vol. 159; p. 536.
Moffett, Thomas S., G. F. Baker, and A. Robeson, Spokane, Wash.; said Moffett assignor to said Baker and Robeson. Non-slipping rubber-tread horseshoe. No. 965,594; July 26; Sp. p. 5624; Gaz. vol. 156; p. 957.
Moffitt, Andrew A., and G. E. Andrews, Providence, R. I. Electrical-fuse block. No. 946,251; Jan. 11; Sp. p. 2732; Gaz. vol. 150; p. 454.
Moffitt, Emmett L., Elon College, N. C. Mosquito-net frame. No. 953,965; Apr. 5; Sp. p. 553; Gaz. vol. 153; p. 100.
Moffitt, John J., Harrisburg, Pa. Dental waste-receiver. No. 963,794; July 12; Sp. p. 1710; Gaz. vol. 156; p. 285.
Moffly, John W., *et al.* (See Storne, William H., assignor.)
Mögenburg, Julius, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Making 1-8-diaminonaphthalene-4-sulfonic acid. No. 953,049; Mar. 29; Sp. p. 5294; Gaz. vol. 152; p. 975.
Mogg, Millard E., and C. A. Gardner, Chicago, Ill.; said Gardner assignor to said Mogg. Portable loader. No. 956,816; May 3; Sp. p. 689; Gaz. vol. 154; p. 108.
Mogyorosi, Steven and G. Papp, Stamford, Conn. Rail-chair. No. 951,141; Mar. 8; Sp. p. 1376; Gaz. vol. 152; p. 250.
Moh, Oswald, Flörsheim, Germany, assignor to Defender Photo Supply Company, Rochester, N. Y. Gelatin film. No. 953,175; Mar. 29; Sp. p. 5585; Gaz. vol. 152; p. 1017.
Mohlsick, Mary, Peekskill, N. Y. Skirt-gage. No. 973,955; Oct. 25; Sp. p. 5321; Gaz. vol. 159; p. 924.
Mohnike, Albert C., Yonkers, N. Y. Safety appliance for elevators. No. 974,414; Nov. 1; Sp. p. 752; Gaz. vol. 160; p. 114.
Mohr, Adolph. (See Beltz, John H., assignor.)
Mohr, Benjamin F., Mifflinburg, Pa. Pump-coupling. No. 948,072; Feb. 1; Sp. p. 615; Gaz. vol. 151; p. 99.
Mohr, Charls M., Struthers, Ohio. Match-safe. No. 952,542; Mar. 22; Sp. p. 4223; Gaz. vol. 152; p. 774.
Mohr, Edmund H. (See Schanfler, Albert, assignor.)
Mohr, Henry P., Pleasanton, Cal. Straw and chaff separator and stacker. No. 949,361; Feb. 15; Sp. p. 3323; Gaz. vol. 151; p. 582.
Mohr, Jacob A., Braddock, and F. H. N. Gerwig, Wilkinsburg, Pa. Apparatus for coating molds. No. 965,394; July 26; Sp. p. 5166; Gaz. vol. 156; p. 886.
Mohr, Joseph. (See Hammen, Charles, assignor.)
Mohr, Wilson K. (See Neumeyer, Horace F., assignor.)
Mohrbach, William A., St. Louis, Mo. Clay loader and scraper. No. 974,905; Nov. 8; Sp. p. 1873; Gaz. vol. 160; p. 310.
Mohrhoff, Charles F., Riverside, Cal. Nozzle-holder. No. 946,147; Jan. 11; Sp. p. 2495; Gaz. vol. 150; p. 416.
Mohun, Edward, Victoria, British Columbia, Canada. Metal-reinforced concrete pile. No. 958,967; May 24; Sp. p. 5551; Gaz. vol. 154; p. 933.
Mohun, John L., New York, assignor to Diamond Expansion Bolt Company, Brooklyn, N. Y. Expansion-bolt. No. 945,403; Jan. 4; Sp. p. 862; Gaz. vol. 150; p. 134.
Moinett, Frank, Alliance, Ohio. Metallic leaf for account-registers. No. 949,301; Feb. 15; Sp. p. 3186; Gaz. vol. 151; p. 562.
Moir, Ernest W., *et al.* (See Vandervort, Frank F., assignor.)

Alphabetical list of patentees—Continued.

Moise, Harmon D., assignor to The Valveless Flush-Tank Company, Sumter, S. C. Flushing apparatus for closets, &c. No. 965,479; July 26; Sp. p. 5352; Gaz. vol. 156; p. 916.
Moise, Harmon D., assignor to The Valveless Flush-Tank Company, Sumter, S. C. Air-seal flushing apparatus. No. 965,531; July 26; Sp. p. 5488; Gaz. vol. 156; p. 935.
Moise, Lionel H., San Francisco, Cal. Illuminated sign. No. 966,846; Aug. 9; Sp. p. 2202; Gaz. vol. 157; p. 362.
Moist Proof Pressed Brick Company. (See Pelot, Russell E., I. B., and W. D., assignors.)
Mojana, Guido, Milan, Italy. Treating zinkiferous substances. No. 961,514; June 14; Sp. p. 2625; Gaz. vol. 155; p. 458.
Molander, Charles F., assignor to C. Holmberg & Company, Chicago, Ill. Cooking vessel. No. 960,105; May 31; Sp. p. 7982; Gaz. vol. 154; p. 1341.
Molander, Oscar, Gilbert, Minn. Dynamite-heater. No. 960,370; June 7; Sp. p. 271; Gaz. vol. 155; p. 46.
Molas, Jean, London, England. Fluid-pressure heat-engine. No. 973,289; Oct. 18; Sp. p. 3918; Gaz. vol. 159; p. 671.
Mold, Julius, Sunrise, Minn. Driving-pulley. No. 948,516; Feb. 8; Sp. p. 1558; Gaz. vol. 151; p. 274.
Moldenhauer, Oscar H., Juda, Wis. Cheese-stirrer. No. 948,933; Feb. 8; Sp. p. 2414; Gaz. vol. 151; p. 411.
Moldenhauer, Wilhelm. (See Dieffenbach and Moldenhauer.)
Molder, Henry M., Bedford, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Mold-making machine. (Reissue.) No. 13,097; Mar. 22; Sp. p. 5227; Gaz. vol. 152; p. 937.
Molenaar, William. (See Beyer, Bertrand E., assignor.)
Molenaar, William, Paterson, N. J. Advertising device. No. 954,755; Apr. 12; Sp. p. 2303; Gaz. vol. 153; p. 399.
Moler, George S., Ithaca, N. Y. Photographic cabinet. No. 979,189; Dec. 20; Sp. p. 3857; Gaz. vol. 161; p. 667.
Molin, Christiaan, assignor to S. S. Wëyl, Amsterdam, Netherlands. Vehicle-fender. No. 952,207; Mar. 15; Sp. p. 3517; Gaz. vol. 152; p. 633.
Molinari, Henry G., and H. Laurent, Woodridge, N. J. Oil-gun. No. 949,193; Feb. 15; Sp. p. 2967; Gaz. vol. 151; p. 525.
Molinari, José, *et al.* (See Cervelli, José, assignor.)
Moline Plow Company. (See Lindgren, Alexus C., assignor.)
Molitor, Victor, Swedesboro, N. J. Smoke-house. No. 959,780; May 31; Sp. p. 7234; Gaz. vol. 154; p. 1228.
Molkenthin, Gustav. (See Muehleisen, Molkenthin, and Leidenberg.)
Molkenthin, Joseph, Jr., Brooklyn, N. Y. Safety-razor. No. 954,871; Apr 12; Sp. p. 2584; Gaz. vol. 153; p. 440.
Molkentin, Paul T., Carlton, Victoria, Australia. Fastening device for doors, windows, and the like. No. 975,977; Nov. 15; Sp. p. 4156; Gaz. vol. 160; p. 703.
Mollberg, Theodor, Brooklyn, N. Y. Adjustable sleeve-form. No. 979,023; Dec. 20; Sp. p. 3466; Gaz. vol. 161; p. 608.
Mollen, Martin J., Nekoosa, Wis. Screen-plate fastener. No. 954,452; Apr. 12; Sp. p. 1599; Gaz. vol. 153; p. 293.
Moller, Josephine, East Somerville, Mass. Sifting-shovel. No. 971,299; Sept. 27; Sp. p. 4581; Gaz. vol. 158; p. 802.
Mollere, Mederic C., assignor of one-half to F. I. Cretini, Cut Off, La. Cane-harvester. No. 976,823; Nov. 22; Sp. p. 6014; Gaz. vol. 160; p. 1016.
Mollien, Jacobus. (See Nuberg, Mollien, and Boss.)
Molloy, James F., West Haven, Conn. Buckle. No. 946,974; Jan. 18; Sp. p. 4407; Gaz. vol. 150; p. 725.
Molloy, James F., West Haven, Conn. Cast-off for suspender-ends. No. 966,940; Aug. 9; Sp. p. 2393; Gaz. vol. 157; p. 393.
Molloy, Joseph M., Lewiston, Idaho. Moistener. No. 973,375; Oct. 18; Sp. p. 4112; Gaz. vol 159; p. 701.
Molnar, Stefan, Pittsburg, Pa. Horse-detacher. No. 959,373; May 24; Sp. p. 6382; Gaz. vol. 154; p. 1067.
Moltz, H. H., *et al.* (See Schrader, Moritz, assignor.)
Moltz, I., *et al.* (See Schrader, Moritz, assignor.)
Molyneux, George E., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Power-transmission mechanism. No. 967,950; Aug. 23; Sp. p. 4466; Gaz. vol. 157; p. 786.
Momburg, Frederick, Ybor City, Fla. Plant-protecting shed. No. 963,920; July 12; Sp. p. 1987; Gaz. vol. 156; p. 326.
Momburg, Frederick, Ybor City, Fla. Metallic fabric. No. 965,314; July 26; Sp. p. 4996; Gaz. vol. 156; p. 860.
Monahan, Louis J., Oshkosh, Wis. Grass-twine machine. No. 956,539; May 3; Sp. p. 61; Gaz. vol. 154; p. 13.
Monahan, William, Duluth, Minn. Mop-wringer. No. 960,371; June 7; Sp. p. 272; Gaz. vol. 155; p. 46.
Monarch Acetylene Gas Company. (See Schlieder, Augustus E., assignor.)
Monarch, Henry L. (See Kelsey and Monarch.)
Monarch Manufacturing Company. (See Searle, Harry A., assignor.)
Monarch Metal Weather Strip Company. (See Hooppaw, Oscar W., assignor.)
Monarch Road Roller Company. (See Brown and Bacon, assignors.)
Monarch Specialty Manufacturing Company, The. (See Dodds, Lee L., assignor.)
Monarch Typewriter Company, The. (See Barney, Edwin E., assignor.)
Monarch Typewriter Company, The. (See Brand, George B., assignor.)
Monarch Typewriter Company, The. (See Coo, Thomas J., assignor.)
Monarch Typewriter Company, The. (See Curtis, Henry E., assignor.)
Monarch Typewriter Company, The. (See De Prins and Riga, assignors.)
Monarch Typewriter Company, The. (See Edlund, John A., assignor.)
Monarch Typewriter Company, The. (See Josleyn, Hubbard N., assignor.)
Monarch Typewriter Company, The. (See Knox, Nelson F., assignor.)
Monarch Typewriter Company, The. (See Merritt, Henry W., assignor.)
Monarch Typewriter Company, The. (See Merritt and Pomeroy, assignors.)
Monarch Typewriter Company, The. (See Mosher, Charles P., assignor.)
Monarch Typewriter Company, The. (See Pool, Morris W., assignor.)
Monarch Typewriter Company, The. (See Rumrill, Harry B., assignor.)
Monarch Typewriter Company, The. (See Seib, George A., assignor.)
Monarch Typewriter Company, The. (See Seib and Koerner, assignors.)
Monarch Typewriter Company, The. (See Shepard, Charles H., assignor.)
Monarch Typewriter Company, The. (See Sholes, Frank L., assignor.)
Monarch Typewriter Company, The. (See Steele, Herbert H., assignor.)
Monarch Typewriter Company, The. (See Stone, Alvin M., assignor.)
Monash, Charles P. (See Boegen, John E., assignor.)
Monash, Charles P. (See Conrad, Paul, assignor.)
Monash, Mark E. (See Brown, Paul F., assignor.)
Monberg, Soren C., Leadville, Colo. Metal door and window frame. No. 958,663; May 17; Sp. p. 4878; Gaz. vol. 154; p. 801.
Moncreiffe, Malcolm, Big Horn, Wyo. Lumber-sorter. No. 964,670; July 19; Sp. p. 3573; Gaz. vol. 156; p. 612.
Mondorf, Gertrude A., New York, N. Y. Cap. No. 964,443; July 12; Sp. p. 3033; Gaz. vol. 156; p. 501.
Monell, Ira F., Boulder, Colo. Ore-concentrator. No. 972,017; Oct. 4; Sp. p. 1115; Gaz. vol. 159; p. 187.
Monette, Joseph B., Providence, R. I. Refrigerating apparatus. No. 964,041; July 12; Sp. p. 2235; Gaz. vol. 156; p. 368.
Monette, Joseph B., Providence, R. I. Counter-guard bracket. No. 971,300; Sept. 27; Sp. p. 4582; Gaz. vol. 158; p. 802.
Monetti, Michael, Bloomfield, N. J. Guard for safety-razors. No. 974,906; Nov. 8; Sp. p. 1875; Gaz. vol. 160; p. 310.
Moneuse, Alphonse F., New Rochelle, N. Y. Water-heating apparatus for urns. No. 965,724; July 26; Sp. p. 5898; Gaz. vol. 156; p. 1002.
Moneuse, Elie J. (See Langworthy, John S., assignor.)
Moneuse, Elie J. (See Tottingham, Fred M., assignor.)
Monge, Joseph H., and C. Arzano, St. Gilles-lez-Bruxelles, Belgium. Electrolytic apparatus. No. 945,132; Jan. 4; Sp. p. 250; Gaz. vol. 150; p. 44.
Monger, Ira Z., Larned, Kans. Screening and sifting apparatus. No. 946,782; Jan. 18; Sp. p. 3955; Gaz. vol. 150; p. 658.
Monica, Charles F., Cloverdale, Mich. Pump. No. 965,923; Aug. 2; Sp. p. 156; Gaz. vol. 157; p. 27.
Monighan Machine Company. (See Brainard, Charles H., assignor.)
Monighan Machine Company. (See Martinson, Oscar J., assignor.)
Monitor Drill Company. (See Beeman, Edwin R., assignor.)
Monitor Drill Company. (See Brennan, Thomas, Jr., assignor.)
Monitor Drill Company. (See Davis, Spencer E., as signor.)
Monitor Drill Company. (See Rieske, Brennan, Phelps and Beeman, assignors.)
Monitor Manufacturing Company, The. (See Carrier, Merwin W., assignor.)
Monitor Manufacturing Company. (See McQuown, Thomas H., assignor.)
Monitor Manufacturing Company of Baltimore City. (See O'Brien and Whittingham, assignors.)
Monitor Manufacturing Company of Baltimore City. (See Whittingham, George H., assignor.)
Monitor Manufacturing Company of Baltimore City. (See Whittingham and O'Brien, assignors.)
Monk, Herman W., Malcolm, Ontario, Canada. Clothes-drier. No. 945,793; Jan. 11; Sp. p. 1744; Gaz. vol. 150; p. 293.
Monnier, Emile F., Coggon, Iowa. Covered barn-door track and hanger. No. 947,019; Jan. 18; Sp. p. 4495; Gaz. vol. 150; p. 740.

Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Compound metal body and making same. No. 947,392; Jan. 25; Sp. p. 5309; Gaz. vol. 150; p. 892.
Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Compound metal object. No. 960,372; June 7; Sp. p. 274; Gaz. vol. 155; p. 47.
Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Producing compound metal bodies. No. 971,136; Sept. 27; Sp. p. 4240; Gaz. vol. 158; p. 748.
Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Hot-working metals. No. 972,559; Oct. 11; Sp. p. 2272; Gaz. vol. 159; p. 393.
Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Method of and apparatus for producing coated metal objects. No. 972,561; Oct. 11; Sp. p. 2279; Gaz. vol. 159; p. 393.
Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Method of and apparatus for producing coated metal objects. No. 972,629; Oct. 11; Sp. p. 2449; Gaz. vol. 159; p. 417.
Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Making compound metal bodies. No. 972,630; Oct. 11; Sp. p. 2454; Gaz. vol. 159; p. 417.
Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Process of and apparatus for cutting compound metal articles. No. 973,376; Oct. 18; Sp. p. 4113; Gaz. vol. 159; p. 702.
Monnot, John F., assignor to Monnot Metallurgical Company, New York, N. Y. Producing compound metal bodies. No. 971,135; Sept. 27; Sp. p. 4238; Gaz. vol. 158; p. 748.
Monnot Metallurgical Company. (See Monnot, John F., assignor.)
Mono Service Bottle Company. (See Brown, Luther P., assignor.)
Monoson, Solomon, New York, N. Y. Headwear. No. 978,048; Dec. 6; Sp. p. 1346; Gaz. vol. 161; p. 216.
Monot, Charles, Lyon, France. Producing designs on glass or other materials. No. 970,080; Sept. 13; Sp. p. 2023; Gaz. vol. 158; p. 343.
Monpas, Jeffray, Chippewa Falls, Wis. Combined snow-plow and rutter. No. 950,075; Feb. 22; Sp. p. 4879; Gaz. vol. 151; p. 859.
Monroe Electrical Manufacturing Company, The. (See Adams, Harry E., assignor.)
Monroe, George H., Philadelphia, Pa. Sand-box for cars. No. 965,212: July 26; Sp. p. 4771; Gaz. vol. 156; p. 825.
Monroe, Jay A., assignor of one-half to C. W. Ulrich, Otsego, Mich. Paper-making machine. No. 968,251; Aug. 23; Sp. p. 5159; Gaz. vol. 157; p. 888.
Monroe, John A., Oak Park, Ill. Cuff-button. No. 949,832; Feb. 22; Sp. p. 4292; Gaz. vol. 151; p. 774.
Monroe, William A. (See Curtiss and Monroe.)
Monson, August A., North St. Paul, assignor of one-half to F. W. Moffett, St. Paul, Minn. Railway telephone signaling apparatus. No. 950,004; Feb. 22; Sp. p. 4735; Gaz. vol. 151; p. 836.
Monson, August A., North St. Paul, assignor to E. G. Kay, St. Paul, Minn. Automatic window-opener. No. 970,380; Sept. 13; Sp. p. 2632; Gaz. vol. 158; p. 444.
Monson, Carl A., Hartford, Conn. Manifolding-sales-book holder. No. 960,030; May 31; Sp. p. 7837; Gaz. vol. 154; p. 1316.
Monsos, Jacob, Minneapolis, Minn. Combined punch and shear. No. 973,124; Oct. 18; Sp. p. 3545; Gaz. vol. 159; p. 613.
Montagu, Gilbert P. (See Smith, Squire J., assignor.)
Montague, David W., Shelley, Idaho. Carpenter's square. No. 975,268; Nov. 8; Sp. p. 2687; Gaz. vol. 160; p. 434.
Montague, Edward L., *et al.* (See Collins, Wilbur L., assignor.)
Montague, John W., *et al.* (See Collins, Wilbur L., assignor.)
Montague, Judd W., assignor of one-half to C. H. Noble, Columbus, Ohio. Rabbeting-plane. No. 978,471; Dec. 13; Sp. p. 2269; Gaz. vol. 161; p. 394.
Montague Mailing Machinery Co. (See Owens, Charles, assignor.)
Montague Mailing Machinery Co. (See Owens and Lyle, assignors.)
Montague, Meredith F., New York, N. Y. Blotter. No. 967,951; Aug. 23; Sp. p. 4469; Gaz. vol. 157; p. 786.
Montague, Rodney, assignor to P. C. Bertram, Cincinnati, Ohio. Machine for making butter. No. 966,574; Aug. 9; Sp. p. 1599; Gaz. vol. 157; p. 272.
Montauk Engineering Company. (See Anderson, James A., assignor.)
Montbarbon, Charles M. P., Paris, France. Magneto ignition apparatus. No. 953,218; Mar. 29; Sp. p. 5675; Gaz. vol. 152; p. 1031.
Monteith, Robert F. (See Davis and Monteith.)
Montelius, Ernst E. L., *et al.* (See Hummel, Theodore, assignor.)
Montenson, Otto J., Fargo, N. D., assignor of one-half to A. O. Bunde, Hartford, S. D. Indicator for street-railways. No. 949,742; Feb. 15; Sp. p. 4087; Gaz. vol. 151; p. 709.
Montet, Victor. (See Lemarchand and Montet.)
Montgomery, Beauchamp H., W. A. Gray, and A. S. Chapin, Toronto, Ontario, Canada. Hose-reel. No. 946,681; Jan. 18; Sp. p. 3733; Gaz. vol. 150; p. 624.
Montgomery, Charles A., Toronto, Ontario, Canada. Anti-slipping horseshoe. No. 967,540; Aug. 16; Sp. p. 3641; Gaz. vol. 157; p. 626.
Montgomery, Daniel S., Columbus, Ohio. Car-coupling. No. 958,884; May 24; Sp. p. 5392; Gaz vol. 154; p. 904.
Montgomery, George S. (See Hotchkiss, Charles R., assignor.)
Montgomery, Howard J., Racine, Wis. Combined finger-guide for penholders and the like. No. 967,410; Aug. 16; Sp. p. 3382; Gaz. vol. 157; p. 583.
Montgomery, Hugh, and F. G. Drolet, Milo Junction, Me. Water-glass shield. No. 949,800; Feb. 22; Sp. p. 4222; Gaz. vol. 151; p. 762.
Montgomery, Hugh M., Indianola, Miss. Receptacle for live bait. No. 953,540; Mar. 29; Sp. p. 6379; Gaz. vol. 152; p. 1142.
Montgomery, James A., Birmingham, Ala. Coal-washing machine. No. 954,986; Apr. 12; Sp. p. 2818; Gaz. vol. 153; p. 478.
Montgomery, Jessie C., Modoc, Ind. Lawn-mower. No. 953,541; Mar. 29; Sp. p. 6381; Gaz. vol. 152; p. 1142.
Montgomery, John. (See Perkins, Stanley, Putnam, and Montgomery.)
Montgomery, John J., Santa Clara, Cal. Rectifying electric currents. No. 974,171; Nov. 1; Sp. p. 134; Gaz. vol. 160; p. 25.
Montgomery, John J., Santa Clara, Cal. Process for compelling electric motors to keep in step with the waves or impulses of the current driving them, and a motor embodying the process. No. 974,415; Nov. 1; Sp. p. 756; Gaz. vol. 160; p. 115.
Montgomery, Robert A., Indiana, Pa. Wrench. No. 961,515; June 14; Sp. p. 2628; Gaz. vol. 155; p. 458.
Montgomery, Robert B., Minter, Tex. Cotton-picking sack and holder. No. 950,452; Feb. 22; Sp. p. 5621; Gaz. vol. 151; p. 986.
Montgomery, Robert J., Chicago, Ill. Brush. No. 972,898; Oct. 18; Sp. p. 3049; Gaz. vol. 159; p. 537.
Montgomery, Samuel, Stockton, Cal. Taboret-bath. No. 955,603; Apr. 19; Sp. p. 4127; Gaz. vol. 153; p. 718.
Montgomery, Samuel, Stockton, Cal. Flying-machine. No. 962,652; June 28; Sp. p. 5099; Gaz. vol. 155; p. 892.
Montgomery, Samuel E., assignor of one-half to J. E. Watkins, Ball Ground, Ga. Planter. No. 968,250; Aug. 23; Sp. p. 5157; Gaz. vol. 157; p. 888.
Montgomery, Walter, and G. Weithas, Brooklyn, assignors of one-third to E. S. Luther, New York, N. Y. Amalgamating apparatus. No. 955,604; Apr. 19; Sp. p. 4128; Gaz. vol. 153; p. 718.
Montgomery, Walter R., Shreveport, La. Liquid-fuel burner. No. 966,575; Aug. 9; Sp. p. 1601; Gaz. vol. 157; p. 272.
Montgomery, Walter R., Shreveport, La. Liquid-fuel burner. No. 966,576; Aug. 9; Sp. p. 1603; Gaz. vol. 157; p. 273.
Monti, Eudo, Turin, Italy. Apparatus for concentrating solutions by freezing. No. 955,659; Apr. 19; Sp. p. 4255; Gaz. vol. 153; p. 736.
Monti, Eudo, Turin, Italy. Apparatus for concentrating solutions in general. No. 973,290; Oct. 18; Sp. p. 3921; Gaz. vol. 159; p. 671.
Montigny, Emile J., New York, N. Y. Wind-shield. No. 959,374; May 24; Sp. p. 6384; Gaz. vol. 154; p. 1067.
Montilli, Leonard, assignor of one-half to C. E. Heymann, New York, N. Y. Plume. No. 969,795; Sept. 13; Sp. p. 1395; Gaz. vol. 158; p. 245.
Montmeny, Theodore, Chicopee, Mass. Repeating fire-arm. No. 947,307; Jan. 25; Sp. p. 5114; Gaz. vol. 150; p. 863.
Montpelier Cup and Metal Works. (See Page, William M., assignor.)
Moodey, Nathan W., Fresno, Cal. Collar for shafting. No. 945,106; Jan. 4; Sp. p. 206; Gaz. vol. 150; p. 35.
Moodey, Nathan W., Fresno, Cal. Finger-ring. No. 945,107; Jan. 4; Sp. p. 207; Gaz. vol. 150; p. 35.
Moody, Augustus F. (See Brown, Herman G., assignor.)
Moody, George F., Altoona, Pa. Oil-burner. No. 967,653; Aug. 16; Sp. p. 3861; Gaz. vol. 157; p. 663.
Moody, George O., Canton, Ohio. Combined book support and holder. No. 967,218; Aug. 16; Sp. p. 2975; Gaz. vol. 157; p. 515.
Moody, Howard N., New Orleans, La. Water-heater. No. 956,989; May 3; Sp. p. 1066; Gaz. vol. 154; p. 167.
Moody, Ira V., Elwood, Ind. Motor. No. 947,594; Jan. 25; Sp. p. 5781; Gaz. vol. 150; p. 960.
Moody, James N., South Boston, Va. Ventilating-canopy. No. 972,207; Oct. 11; Sp. p. 1516; Gaz. vol. 159; p. 270.
Moody, Rufus E., Nova, Ohio. Mail-catching device. No. 977,963; Dec. 6; Sp. p. 1184; Gaz. vol. 161; p. 189.
Moon, Dewitt A., Louisville, Ky., and E. Christman, Richmond, Ind., assignors to The American Seeding Machine Company, Springfield, Ohio. Seeding-machine gearing. No. 964,802; July 19; Sp. p. 3952; Gaz. vol. 156; p. 657.
Moon-Hopkins Billing Machine Company. (See Hopkins, Hubert, assignor.)
Moon-Hopkins Billing Machine Company. (See Hopkins, William W., assignor.)

Alphabetical list of patentees—Continued.

Moon, Ira D. (See Morrison, John R., assignor.)
Moon, Oscar C., Pittsburg, Pa. Automatic alarm and gas-pressure cut-off device. No. 960,569; June 7; Sp. p. 677; Gaz. vol. 155; p. 111.
Moon, Richard, Homestead, Pa. Roll-brake. No. 946,252; Jan. 11; Sp. p. 2734; Gaz. vol. 150; p. 455.
Moon, Richard D., San Angelo, Tex. Wheel. No. 971,463; Sept. 27; Sp. p. 4881; Gaz. vol. 158; p. 855.
Moon, Sampson W., Chicago, Ill. Electric vibrator. No. 957,982; May 17; Sp. p. 3217; Gaz. vol. 154; p. 566.
Moon, Thomas A., *et al.* (See Pickering, Abel W., assignor.)
Moon, William B., Dayton, Ohio. Total-adding weighing-scale. No. 972,394; Oct. 11; Sp. p. 1902; Gaz. vol. 159; p. 334.
Mooney, Abel L., South Orange, N. J. Ship construction. No. 950,860; Mar. 1; Sp. p. 846; Gaz. vol. 152; p. 135.
Mooney & Crane. (See Pejchar, Josef, assignor.)
Mooney, Frances J., Philadelphia, Pa. Dust and draft shield. No. 946,805; Jan. 18; Sp. p. 4023; Gaz. vol. 150; p. 667.
Mooney, Frank H., and F. S. Crane, Chicago, Ill. Separable button. No. 964,928; July 19; Sp. p. 4204; Gaz. vol. 156; p. 701.
Mooney, John. (See Bilsland, John C., assignor.)
Mooney, John D., St. Paul, Minn. Shaft-reversing mechanism. No. 962,450; June 28; Sp. p. 4668; Gaz. vol. 155; p. 824.
Mooney, Patrick J., Brazil, Ind. Foraminous fire plate or cover. No. 946,701; Jan. 18; Sp. p. 3767; Gaz. vol. 150; p. 630.
Mooney, Patrick J., Brazil, Ind. Draft-concentrator. No. 955,605; Apr. 19; Sp. p. 4130; Gaz. vol. 153; p. 718.
Mooney, Timothy, Fall River, Mass. Shuttle-holder. No. 956,131; Apr. 26; Sp. p. 5297; Gaz. vol. 153; p. 931.
Mooney, William A., assignor of one-half to J. H. Fraser, Richmond, Va. Door-latch. No. 954,324; Apr. 5; Sp. p. 1340; Gaz. vol. 153; p. 221.
Mooney, William L., Weston, W. Va. Tile-molding apparatus. No. 972,704; Oct. 11; Sp. p. 2587; Gaz. vol. 159; p. 441.
Mooney, William M., *et al.* (See Fisher, John H., assignor.)
Moore, Aaron, *et al.* (See Haney, Frederick G., assignor.)
Moore, Adison, Helena, Okla. Stock-fountain. No. 969,177; Sept. 6; Sp. p. 73; Gaz. vol. 158; p. 12.
Moore, Alanson A., Detroit, Mich. Automatic railway-switch. No. 957,699; May 10; Sp. p. 2541; Gaz. vol. 154; p. 440.
Moore, Alfred, Detroit, Mich. Spring-wheel. No. 975,630; Nov. 15; Sp. p. 3449; Gaz. vol. 160; p. 585.
Moore, Alfred M., Malden, Mass., assignor to A. M. Moore and C. M. Moore, copartners. Oven for tempering shoe-shanks and other small articles. No. 957,853; May 10; Sp. p. 2862; Gaz. vol. 154; p. 490.
Moore, Alfred M. and C. M. (See Moore, Alfred M., assignor.)
Moore, Amos T., *et al.* (See Curry and Linn, assignors.)
Moore, Andrew, *et al.* (See Hemphill, Henry B., assignor.)
Moore, Andy, *et al.* (See Hemphill, Henry B., assignor.)
Moore Architectural and Engineering Company, The. (See Heller, Charles S., assignor.)
Moore, Arthur L., assignor to Moore Drop Forging Company, Springfield, Mass. Pipe-wrench handle. No. 949,731; Feb. 15; Sp. p. 4057; Gaz. vol. 151; p. 704.
Moore, Arthur W. (See Cox, Thomas H., assignor.)
Moore, Baxter S. (See Drake, James S., assignor.)
Moore, Benton, Cherryvale, Kans. Liquid-fuel burner. No. 976,592; Nov. 22; Sp. p. 5554; Gaz. vol. 160; p. 938.
Moore Brothers Lightning Rod Company. (See Moore, George J., assignor.)
Moore, Carlos B., Worcester, Mass. Means for supporting mirrors, pictures, or other small objects. No. 948,113; Feb. 1; Sp. p. 693; Gaz. vol. 151; p. 113.
Moore, Charles B., Newport News, Va. Mold-venting apparatus. No. 959,149; May 24; Sp. p. 5931; Gaz. vol. 154; p. 993.
Moore, Charles B., Rochester, Ind. Vehicle-seat. No. 972,393; Oct. 11; Sp. p. 1900; Gaz. vol. 159; p. 333.
Moore, Charles C., Carthage, Mo. Rock-gathering machine. No. 965,115; July 19; Sp. p. 4571; Gaz. vol. 156; p. 762.
Moore, Charles C., Jr., Lexington, Ky., assignor to The Tropical Products Company, Washington, D. C. Treating cassava and producing alcohol therefrom. No. 977,465; Dec. 6; Sp. p. 77; Gaz. vol. 161; p. 15.
Moore, Charles H., assignor to The J. L. Mott Iron Works, New York, N. Y. Water-closet. No. 953,484; Mar. 29; Sp. p. 6254; Gaz. vol. 152; p. 1121.
Moore, Charles L. (See Moore, Edward and C. L.)
Moore, Charles S., Danvers, Mass. Milking vessel. No. 976,202; Nov. 22; Sp. p. 4657; Gaz. vol. 160; p. 802.
Moore, Clarance H., Fairmont, Minn. Stanchion. No. 980,163; Dec. 27; Sp. p. 5955; Gaz. vol. 161; p. 1016.
Moore, Clarence S. and J. W., Lexington, Ky. Device for mixing air and gas. No. 961,787; June 21; Sp. p. 3194; Gaz. vol. 155; p. 573.
Moore, Clement F., Chicago, Ill. Automatic-shut-off water-glass. No. 952,833; Mar. 22; Sp. p. 4865; Gaz. vol. 152; p. 876.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Fixture and reflector for vacuum-tubes. No. 955,895; Apr. 26; Sp. p. 4795; Gaz. vol. 153; p. 848.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Electric tube-lamp and similar device. No. 957,983; May 17; Sp. p. 3220; Gaz. vol. 154; p. 567.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Mechanical joint for vacuum-tubes. No. 961,151; June 14; Sp. p. 1835; Gaz. vol. 155; p. 333.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Automatic gas-feed for vacuum-tubes. No. 968,677; Aug. 30; Sp. p. 6075; Gaz. vol. 157; p. 1064.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Artificial skylight. No. 973,685; Oct. 25; Sp. p. 4782; Gaz. vol. 159; p. 830.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Automatic gas-feed for vacuum-tubes. No. 975,149; Nov. 8; Sp. p. 2422; Gaz. vol. 160; p. 393.
Moore, David C., Cisco, Tex. Match-box. No. 975,978; Nov. 15; Sp. p. 4158; Gaz. vol. 160; p. 703.
Moore, David P. (See Ruckdeschel, Bernard, assignor.)
Moore, David P., Washington, D. C. Cutting mechanism for tag forming and affixing machines. No. 947,202; Jan. 18; Sp. p. 4833; Gaz. vol. 150; p. 797.
Moore, David P., Washington, D. C. Tape-feeding mechanism for tag forming and affixing machines. No. 948,944; Feb. 8; Sp. p. 2441; Gaz. vol. 151; p. 415.
Moore, David P., Washington, D. C. Tag. No. 950,453; Feb. 22; Sp. p. 5622; Gaz. vol. 151; p. 986.
Moore, David P., Washington, D. C. Fluid-hydrocarbon burner. No. 968,252; Aug. 23; Sp. p. 5160; Gaz. vol. 157; p. 889.
Moore, David P., Washington, D. C. Tag forming and affixing machine. No. 973,377; Oct. 18; Sp. p. 4116; Gaz. vol. 159; p. 702.
Moore, David P., assignor of one-half to F. H. Walker, Washington, D. C. Percolator. No. 959,955; May 31; Sp. p. 7650; Gaz. vol. 154; p. 1290.
Moore, David P., assignor of one-half to S. B. Pack, Washington, D. C. Portable hand-operated suction-cleaner. No. 963,008; June 28; Sp. p. 5797; Gaz. vol. 155; p. 1015.
Moore, Delmer H., assignor to Moore Plow and Implement Company, Greenville, Mich. Liquid-cooling device. No. 963,009; June 28; Sp. p. 5800; Gaz. vol. 155; p. 1015.
Moore, Dickson L. (See Moore, Leonard, assignor.)
Moore Drop Forging Company. (See Moore, Arthur L., assignor.)
Moore, E. O., *et al.* (See Ashford, Thomas B., assignor.)
Moore, Edward, Pana, Ill. Block-and-tackle device. No. 947,595; Jan. 25; Sp. p. 5783; Gaz. vol. 150; p. 961.
Moore, Edward, Syracuse, N. Y. Internal-combustion engine. No. 948,336; Feb. 8; Sp. p. 1152; Gaz. vol. 151; p. 212.
Moore, Edward and C. L., Franklinville, N. Y. Milk-pail holder. No. 976,276; Nov. 22; Sp. p. 4865; Gaz. vol. 160; p. 830.
Moore, Edward C. (See Priestman and Moore.)
Moore, Edward J., Cleveland, Ohio. Combination valve and meter. No. 958,664; May 17; Sp. p. 4879; Gaz. vol. 154; p. 801.
Moore, Edward J., Cleveland, Ohio, assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Air-controlled feed system for liquids. No. 960,986; June 7; Sp. p. 1496; Gaz. vol. 155; p. 251.
Moore, Edward Y., Cleveland, Ohio. Hoist. No. 946,253; Jan. 11; Sp. p. 2736; Gaz. vol. 150; p. 455.
Moore, Edwin, assignor to Moore Push-Pin Company, Philadelphia, Pa. Display-cabinet. No. 950,572; Mar. 1; Sp. p. 231; Gaz. vol. 152; p. 38.
Moore Electrical Company. (See Moore, Daniel M., assignor.)
Moore, Frank A., Sr., assignor of one-fourth to F. A. Moore, Jr., Indianapolis, Ind. Variable-speed transmission device. No. 955,279; Apr. 19; Sp. p. 3415; Gaz. vol. 153; p. 607.
Moore, Frank L., Indianapolis, Ind. Vehicle storm-front. No. 950,237; Feb. 22; Sp. p. 5226; Gaz. vol. 151; p. 916.
Moore, Frank W., Austin, Ill. Clock. No. 966,038; Aug. 2; Sp. p. 418; Gaz. vol. 157; p. 67.
Moore, Frederic W., Millbury, assignor to Draper Company, Hopedale, Mass. Bobbin-stripper for weft-replenishing looms. (Reissue.) No. 13,119; May 31; Sp. p. 8253; Gaz. vol. 154; p. 1389.
Moore, Gaius C., assignor to John C. Moore Corporation, Rochester, N. Y. Loose-leaf binder. No. 979,326; Dec. 20; Sp. p. 4139; Gaz. vol. 161; p. 713.
Moore, George, Salt Lake City, Utah. Filter. No. 955,660; Apr. 19; Sp. p. 4260; Gaz. vol. 153; p. 737.
Moore, George, Joplin, Mo. Filtering process. No. 955,836; Apr. 19; Sp. p. 4622; Gaz. vol. 153; p. 798.
Moore, George A., Medford, Mass. Capstan-screw. No. 968,783; Aug. 30; Sp. p. 6298; Gaz. vol. 157; p. 1099.
Moore, George B., Springfield, Mass. Valve. No. 951,407; Mar. 8; Sp. p. 1935; Gaz. vol. 152; p. 335.

Alphabetical list of patentees—Continued.

Moore, George D., Worcester, Mass. Wheel and tire therefor. No. 961,882; June 21; Sp. p. 3426; Gaz. vol. 155; p. 605.

Moore, George J., Maryville, Mo. Lightning-rod upright. No. 964,297; July 12; Sp. p. 2764; Gaz. vol. 156; p. 455.

Moore, George J., assignor to Moore Brothers Lightning Rod Company, Maryville, Mo. Lightning-rod. No. 950,454; Feb. 22; Sp. p. 5623; Gaz. vol. 151; p. 986.

Moore, George W., Atlanta, Ga. Manicuring instrument. No. 954,325; Apr. 5; Sp. p. 1342; Gaz. vol. 153; p. 222.

Moore, George W., Weehawken, N. J., and J. K. Hutchison, New York, N. Y. Hat-pin. No. 972,208; Oct. 11; Sp. p. 1517; Gaz. vol. 159; p. 270.

Moore, Gervias T., Annona, Tex. Closure for cistern-cleaners. No. 974,416; Nov. 1; Sp. p. 760; Gaz. vol. 160; p. 115.

Moore, Harry T., Oakland, Cal. Handle for kitchen utensils. No. 968,585; Aug. 30; Sp. p. 5851; Gaz. vol. 157; p. 1032.

Moore, Harry W., Atchison, Kans. Chair or seat. No. 968,871; Aug. 30; Sp. p. 6472; Gaz. vol. 157; p. 1127.

Moore, Herman F., Ventura, Cal. Sewing-machine. No. 968,066; Aug. 23; Sp. p. 4742; Gaz. vol. 157; p. 825.

Moore, Hugh K., Berlin, N. H. Heater. No. 949,282; Feb. 15; Sp. p. 3142; Gaz. vol. 151; p. 554.

Moore, Hugh R., West Lynn, Mass. Printing-press. No. 954,683; Apr. 12; Sp. p. 2120; Gaz. vol. 153; p. 372.

Moore-Irvine, George M. L., Newry, Ireland. Steam-generator. No. 961,516; June 14; Sp. p. 2629; Gaz. vol. 155; p. 459.

Moore, Jacob K., Fresno, Cal. Flagstaff. No. 952,045; Mar. 15; Sp. p. 3220; Gaz. vol. 152; p. 579.

Moore, James, Wetaskiwin, Alberta, Canada. Combined disk harrow and land-roller. No. 963,618; July 5; Sp. p. 1318; Gaz. vol. 156; p. 203.

Moore, James D., Northwilkesboro, N. C. Combination-shoe. No. 978,188; Dec. 13; Sp. p. 1678; Gaz. vol. 161; p. 295.

Moore, James E. A., assignor to J. W. Seaver, Cleveland, Ohio. Folding coke and coal handling machine for coke-ovens. No. 959,246; May 24; Sp. p. 6135; Gaz. vol. 154; p. 1025.

Moore, James L., assignor of one-fifth to L. C. Smith, Polkton, N. C. Slide attachment for plows. No. 964,115; July 12; Sp. p. 2399; Gaz. vol. 156; p. 393.

Moore, Jay W., Sheboygan Falls, Wis. Curd-knife. No. 976,676; Nov. 22; Sp. p. 5711; Gaz. vol. 160; p. 966.

Moore, Jehu C., New York, N. Y. Sewing-machine. No. 979,537; Dec. 27; Sp. p. 4571; Gaz. vol. 161; p. 806.

Moore, Jesse C. and W. A., Indianapolis, Ind. School furniture. No. 950,944; Mar. 1; Sp. p. 1011; Gaz. vol. 152; p. 162.

Moore, John A. (See Metzger and Moore.)

Moore, John A., Eureka, Kans. Refrigerator. No. 953,050; Mar. 29; Sp. p. 5295; Gaz. vol. 152; p. 975.

Moore, John A., assignor to Warwood Tool Company, Wheeling, W. Va. Tamping-bar. No. 964,671; July 19; Sp. p. 3578; Gaz. vol. 156; p. 612.

Moore, John H. (See Lewis and Moore.)

Moore, John L., New York, N. Y. Pull-socket for electric incandescent lamps. No. 970,255; Sept. 13; Sp. p. 2393; Gaz. vol. 158; p. 403.

Moore, John T., St. Louis, Mo. Tie-holding device. No. 978,618; Dec. 13; Sp. p. 2614; Gaz. vol. 161; p. 446.

Moore, John W. (See Moore, Clarence S. and J. W.)

Moore, John W., *et al.*, trustees. (See Moore, Otto N., assignor.)

Moore, John W., Huntsville, Ala. Tire-casing. No. 971,301; Sept. 27; Sp. p. 4583; Gaz. vol. 158; p. 802.

Moore, John W., Bartow, Fla. Dump-car closure. No. 972,018; Oct. 4; Sp. p. 1116; Gaz. vol. 159; p. 187.

Moore, Joseph F., Philadelphia, Pa. Brush. No. 959,574; May 31; Sp. p. 6821; Gaz. vol. 154; p. 1161.

Moore, Joseph W., Newton Highlands, assignor to The J. W. Moore Machine Company, Boston, Mass. Machine for printing on rubber footwear. No. 962,515; June 28; Sp. p. 4801; Gaz. vol. 155; p. 846.

Moore, Langdon. (See McClintock, James L., assignor.)

Moore, Lee C., assignor to Lee C. Moore & Company, Inc., Pittsburg, Pa. Adjuster for oil-wells. No. 968,181; Aug. 23; Sp. p. 5017; Gaz. vol. 157; p. 865.

Moore, Leonard, assignor to D. L. Moore, Dayton, Ohio. Packaging and preserving meat. No. 954,535; Apr. 12; Sp. p. 1792; Gaz. vol. 153; p. 322.

Moore, Lewis L., Canton, Ohio. Pole-tip. No. 970,081; Sept. 13; Sp. p. 2024; Gaz. vol. 158; p. 343.

Moore, Lewis L., assignor to M. Moore, Canton, Ohio. Shirt-sleeve. No. 974,692; Nov. 1; Sp. p. 1391; Gaz. vol. 160; p. 216.

Moore, Mary R. (See Dudley, Willie, assignor.)

Moore, Montague, Melbourne, and T. J. Heskett, Brunswick, Victoria, Australia. Metallurgical process. No. 960,987; June 7; Sp. p. 1497; Gaz. vol. 155; p. 251.

Moore, Montague, Melbourne, and T. J. Heskett, Brunswick, Victoria, Australia. Metallurgical apparatus. No. 960,988; June 7; Sp. p. 1499; Gaz. vol. 155; p. 252.

Moore, Mordecai. (See Moore, Lewis L., assignor.)

Moore, Orville H., Fort Edward, N. Y. Shoe-salesman's stool. No. 947,518; Jan. 25; Sp. p. 5627; Gaz. vol. 150; p. 935.

Moore, Oscar K., Riverside, N. J. Core-machine. No. 950,184; Feb. 22; Sp. p. 5110; Gaz. vol. 151; p. 897.

Moore, Otis E., Chisholm, Minn. Nut-lock. No. 979,538; Dec. 27; Sp. p. 4573; Gaz. vol. 161; p. 806.

Moore, Otto N., *et al.*, trustees. (See Moore, Otto N., assignor.)

Moore, Otto N., Indianapolis, assignor to J. W. Moore, Rushville, and O. N. Moore, Indianapolis, Ind., co-trustees. Indicator-operator for fare-registers. No. 979,083; Dec. 20; Sp. p. 3597; Gaz. vol. 161; p. 627.

Moore, Peter N., Milwaukee, Wis. Roller side bearing. No. 963,459; July 5; Sp. p. 997; Gaz. vol. 156; p. 150.

Moore, Peter N., Milwaukee, Wis. Roller side bearing. No. 963,460; July 5; Sp. p. 998; Gaz. vol. 156; p. 150.

Moore, Philip W., Evanston, Ill. Combination tie-plate and rail-anchor. No. 955,529; Apr. 19; Sp. p. 3949; Gaz. vol. 153; p. 693.

Moore, Philip W., Evanston, assignor to Railway Specialty & Supply Company, Chicago, Ill. Combination tie-plate and anticreeper. No. 965,725; July 26; Sp. p. 5899; Gaz. vol. 156; p. 1002.

Moore Plow and Implement Company. (See Moore, Delmer H., assignor.)

Moore Push-Pin Company. (See Moore, Edwin, assignor.)

Moore, Ralph S., Westminster, London, England. Hot-blast stove. No. 970,941; Sept. 20; Sp. p. 3842; Gaz. vol. 158; p. 656.

Moore, Reuben H., Jeffersonville, Ind. Pneumatic spindle. No. 961,307; June 14; Sp. p. 2177; Gaz. vol. 155; p. 389.

Moore, Richard W. (See Smiley and Moore.)

Moore, Robert, Tuxedo Park, N. Y. Tape for tennis-courts and the like. No. 951,484; Mar. 8; Sp. p. 2089; Gaz. vol. 152; p. 361.

Moore, Robert A., Chicago, Ill. Trigger-lock. No. 945,852; Jan. 11; Sp. p. 1896; Gaz. vol. 150; p. 314.

Moore, Robert A., Chicago, Ill. Trigger-controller. No. 953,279; Mar. 29; Sp. p. 5809; Gaz. vol. 152; p. 1051.

Moore, Robert A., Chicago, Ill., assignor, by mesne assignments, to The Moore Silencer Company, New York, N. Y. Silencer for firearms. No. 956,717; May 3; Sp. p. 467; Gaz. vol. 154; p. 75.

Moore, Robert A., Chicago, Ill., assignor, by mesne assignments, to The Moore Trigger Controller Company, New York, N. Y. Trigger-controller. No. 960,185; May 31; Sp. p. 8132; Gaz. vol. 154; p. 1368.

Moore, Robert A., Chicago, Ill., assignor to F. J. Reville, trustee, New York, N. Y. Antiskidding device for automobiles. No. 967,808; Aug. 16; Sp. p. 4170; Gaz. vol. 157; p. 715.

Moore, Robert J., Cincinnati, Ohio. Vehicle-wheel. No. 946,614; Jan. 18; Sp. p. 3587; Gaz. vol. 150; p. 603.

Moore, Robert S. (See Castle, James B., assignor.)

Moore, Roswell, A., Berlin, Conn., assignor to Waterbury Buckle Company. Clasp. No. 963,619; July 5; Sp. p. 1319; Gaz. vol. 156; p. 203.

Moore, Samuel T., Lima, Mont. Grinding apparatus. No. 961,633; June 14; Sp. p. 2880; Gaz. vol. 155; p. 498.

Moore Silencer Company, The. (See Moore, Robert A., assignor.)

Moore, Stanley, Monticello, Ind. Machine-brake. No. 967,809; Aug. 16; Sp. p. 4172; Gaz. vol. 157; p. 715.

Moore, Thomas A., Clifton, N. J. Warping-machine attachment. No. 954,199; Apr. 5; Sp. p. 1064; Gaz. vol. 153; p. 181.

Moore, Thomas J., New York, N. Y. Mausoleum. No. 975,779; Nov. 15; Sp. p. 3772; Gaz. vol. 160; p. 635.

Moore, Thomas J., Brooklyn, N. Y., assignor to The R. Neumann Hardware Co. Handhold or lift for trunk-trays and the like. No. 953,485; Mar. 29; Sp. p. 6256; Gaz. vol. 152; p. 1122.

Moore, Thomas L., Cincinnati, Ohio. Valve mechanism for explosive-engines. No. 979,024; Dec. 20; Sp. p. 3468; Gaz. vol. 161; p. 608.

Moore, Thomas R., Walden, N. Y. Machine for grinding cutlery-blades and the like. No. 956,645; May 3; Sp. p. 297; Gaz. vol. 154; p. 49.

Moore Trigger Controller Company, The. (See Moore, Robert A., assignor.)

Moore, Van Zandt M., Cleveland, Ohio. Friction-clutch. No. 951,651; Mar. 8; Sp. p. 2409; Gaz. vol. 152; p. 418.

Moore, Walter B., Seattle, Wash. Magnetic separator. No. 960,668; June 7; Sp. p. 879; Gaz. vol. 155; p. 145.

Moore, Will G. (See Bliss, Dwight J., assignor.)

Moore, William. (See Stickley, Joseph, assignor.)

Moore, William, Marinette, Wis. Upright band-saw shingle-machine. No. 972,562; Oct. 11; Sp. p. 2282; Gaz. vol. 159; p. 394.

Moore, William A. (See Moore, Jesse C. and W. A.)

Moore, William D. (See McWane and Moore.)

Moore, William E., Connellsville, Pa. Insulator. No. 955,661; Apr. 19; Sp. p. 4266; Gaz. vol. 153; p. 737.

Moore, William J., Vancouver, British Columbia, Canada. Dredge-bucket. No. 964,042; July 12; Sp. p. 2237; Gaz. vol. 156; p. 369.

Moore, William P. (See Gee, Albert, assignor.)

Moore, William R., East Orange, N. J. Door buzzer or bell. No. 950,185; Feb. 22; Sp. p. 5112; Gaz. vol. 151; p. 897.

Moore, William R., East Orange, N. J. Door-bell. No. 952,129; Mar. 15; Sp. p. 3377; Gaz. vol. 152; p. 607.

Alphabetical list of patentees—Continued.

Moorefield, John C., Houston, Tex. Heel-support. No. 959,956; May 31; Sp. p. 7652; Gaz. vol. 154; p. 1290.
Moorehead, F. B. (See Shaw, James N., assignor.)
Moores, Charles H., assignor to C. M. Trephagen, Oak Park, Ill. Circuit-controlling mechanism. No. 945,472; Jan. 4; Sp. p. 999; Gaz. vol. 150; p. 156.
Moores, Harry C., Columbus, Ohio. Liquid-dispensing device. No. 951,829; Mar. 15; Sp. p. 2772; Gaz. vol. 152; p. 507.
Moorhead, Albert E., San Francisco, Cal. Pneumatic device for cleaning irregular surfaces. No. 955,467; Apr. 19; Sp. p. 3820; Gaz. vol. 153; p. 671.
Moorhead, Albert E., San Francisco, Cal. Floor-cleansing apparatus. No. 965,315; July 26; Sp. p. 4997; Gaz. vol. 156; p. 860.
Moorhead, Albert E., assignor to Mechanical Dust Suction Company, San Francisco, Cal. Pneumatic cleansing apparatus. (Reissue.) No. 13,155; Oct. 11; Sp. p. 2770; Gaz. vol. 159; p. 471.
Moorhead, Samuel C., Cleveland, Ohio. Universal joint. No. 961,634; June 14; Sp. p. 2882; Gaz. vol. 155; p. 498.
Moorhead, Samuel C., Cleveland, Ohio. Flexible shaft. No. 979,985; Dec. 27; Sp. p. 5541; Gaz. vol. 161; p. 957.
Moorhouse, John M., Winnipeg, Manitoba, Canada. Carfender. No. 975,780; Nov. 15; Sp. p. 3775; Gaz. vol. 160; p. 635.
Moorman, Sarah, Richmond, Ind. Garbage-receptacle. No. 957,237; May 10; Sp. p. 1600; Gaz. vol. 154; p. 282.
Moors, George F., Mt. Vernon, Ill. Rotary engine. No. 958,885; May 24; Sp. p. 5394; Gaz. vol. 154; p. 905.
Moorshead, Alfred L., Arlington, N. J. Train-shed. No. 953,633; Mar. 29; Sp. p. 6568; Gaz. vol. 152; p. 1173.
Moorwood, Francis C. (See Brearley and Moorwood.)
Moosmann, Paul, New York, N. Y. Pouch for portable watchmen's clocks. No. 963,461; July 5; Sp. p. 1000; Gaz. vol. 156; p. 150.
Moran, Daniel E., Mendham, N. J. Sinking shafts or the like. No. 961,788; June 21; Sp. p. 3197; Gaz. vol. 155; p. 574.
Moran, Martin M., Ogden, Utah. Attachment for hydraulic wheel-presses. No. 950,573; Mar. 1; Sp. p. 232; Gaz. vol. 152; p. 39.
Moran, Thomas, assignor of three-fourths to himself, one-eighth to P. Deidesheimer, San Francisco, Cal., and one-eighth to C. E. Gillette, Philadelphia, Pa. Pile or timber covering. No. 967,952; Aug. 23; Sp. p. 4470; Gaz. vol. 157; p. 787.
Morand, Armand C., Boston, Mass. Automatic sheet-music rack. No. 973,803; Oct. 25; Sp. p. 5011; Gaz. vol. 159; p. 871.
Morange, Edward, *et al.* (See Hanlon, George W., assignor.)
Morászky, Mátyás, New York, N. Y. Fender for vessels. No. 979,539; Dec. 27; Sp. p. 4574; Gaz. vol. 161; p. 806.
Morden Frog & Crossing Works. (See Olander, Frank J., assignor.)
Morden, Lucena M., Waterbury, and L. R. Hitchcock, Watertown, Conn.; said Hitchcock assignor to said Morden. Temporary binder. No. 973,452; Oct. 18; Sp. p. 4266; Gaz. vol. 159; p. 727.
Morden, Lucena M., Waterbury, and L. R. Hitchcock, Watertown, Conn.; said Hitchcock assignor to said Morden. Temporary binder. No. 973,453; Oct. 18; Sp. p. 4269; Gaz. vol. 159; p. 727.
Moreau, Eugène, New York, assignor to J. P. Devine Company, Buffalo, N. Y. Apparatus for feeding or discharging grain, &c. No. 955,606; Apr. 19; Sp. p. 4132; Gaz. vol. 153; p. 719.
Morehead, John, Detroit, Mich. Faucet. No. 970,082; Sept. 13; Sp. p. 2026; Gaz. vol. 158; p. 344.
Morehouse, Cyrus E., assignor to The Heinn Company, Milwaukee, Wis. Temporary binder. No. 967,541; Aug. 16; Sp. p. 3643; Gaz. vol. 157; p. 626.
Morehouse, Cyrus E., assignor to The Heinn Company, Milwaukee, Wis. Temporary binder or loose-sheet holder. No. 978,922; Dec. 20; Sp. p. 3219; Gaz. vol. 161; p. 571.
Morehouse, Wilmot L. (See Weber, Joseph, assignor.)
Morewood Standard Safety Devices Co. (See Nevins, Frederick, assignor.)
Morey, Ellwood P., *et al.* (See Berntson, Thomas, assignor.) (Reissue.)
Morey, Frank N., Painesville, Ohio. Machine for drying and straightening veneer. No. 947,306; Jan. 25; Sp. p. 5112; Gaz. vol. 150; p. 863.
Morey, John W., *et al.* (See Balcom, William D., assignor.)
Morey, Warren R. (See Dresbach and Morey.)
Morford, Isaac N., Waynesville, Ill. Wire-fence machine. No. 963,620; July 5; Sp. p. 1320; Gaz. vol. 156; p. 204.
Morford, William L., Maitland, Mo. Cultivator. No. 956,132; Apr. 26; Sp. p. 5298; Gaz. vol. 153; p. 931.
Morgan, Albert S., Winfield, W. Va. Cooling arrangement for motor-boat engines. No. 968,385; Aug. 23; Sp. p. 5429; Gaz. vol. 157; p. 936.
Morgan, Arthur, Wilkes-Barre, Pa. Ribbon-holder. No. 957,700; May 10; Sp. p. 2545; Gaz. vol. 154; p. 440.
Morgan, Arthur C. (See Link and Morgan.)
Morgan, Arthur J. (See Hotchkin and Morgan.)
Morgan, Arthur J., Chicago, Ill. Lamp-shade holder. No. 958,665; May 17; Sp. p. 4882; Gaz. vol. 154; p. 801.
Morgan, Bernard, Newport, R. I. Tire-clamp. No. 977,212; Nov. 29; Sp. p. 6931; Gaz. vol. 160; p. 1178.
Morgan, Bernard, Newport, R. I. Hose-coupling. No. 978,619; Dec. 13; Sp. p. 2616; Gaz. vol. 161; p. 446.
Morgan, Charles B., Oakland, Cal. Reducing iron ores. No. 947,448; Jan. 25; Sp. p. 5436; Gaz. vol. 150; p. 910.
Morgan, Charles W., and C. L. Rice, Lumberton, Miss. Cleat attachment for conveyer-chains. No. 973,686; Oct. 25; Sp. p. 4785; Gaz. vol. 159; p. 831.
Morgan Construction Company. (See Carroll, Elbert H., assignor.)
Morgan Construction Company. (See Edwards, Victor E., assignor.)
Morgan Construction Company. (See Edwards and George, assignors.)
Morgan Construction Company. (See George, Jerome R., assignor.)
Morgan Construction Company. (See Jewell, Thomas M., assignor.)
Morgan Construction Company. (See Nye, Theodore H., assignor.)
Morgan, David G., Jamestown, Cal. Drill-sharpener. No. 949,040; Feb. 15; Sp. p. 2665; Gaz. vol. 151; p. 475.
Morgan, Edmund C., Chicago, Ill. Bit-changing means for rotary cutters. No. 975,563; Nov. 15; Sp. p. 3315; Gaz. vol. 160; p. 563.
Morgan, Edward M., Westmount, Quebec, Canada. Egg-beater. No. 974,586; Nov. 1; Sp. p. 1170; Gaz. vol. 160; p. 178.
Morgan Engineering Company, The. (See Seymour, Henry A., assignor.)
Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
Morgan Fare Register Company. (See Morgan, Frederick A., assignor.) (Reissue.)
Morgan, Frederick, Philadelphia, Pa., assignor to O. F. Wood, New York, N. Y. Amusement device. No. 970,531; Sept. 20; Sp. p. 2961; Gaz. vol. 158; p. 516.
Morgan, Frederick A., assignor to Morgan Fare Register Company, Indianapolis, Ind. Indicating and recording device. (Reissue.) No. 13,159; Oct. 18; Sp. p. 4292; Gaz. vol. 159; p. 731.
Morgan, Frederick J., Maidenhead, England. Flushing-tank. No. 961,458; June 14; Sp. p. 2502; Gaz. vol. 155; p. 440.
Morgan-Gardner Electric Company. (See Noble, Ralph E., assignor.)
Morgan, George H., Belleville, Kans. Signaling device. No. 960,669; June 7; Sp. p. 881; Gaz. vol. 155; p. 145.
Morgan, George M. (See De Lukacsevics, Charles, assignor.)
Morgan, George W., Jr., *et al.* (See De Lukacsevics, Charles, assignor.)
Morgan, George W., deceased, Aberdeen, Scotland; W. Alexander and R. M. Morgan, executors. Device for use in connection with the dry mounting of photographic prints or the like. No. 948,867; Feb. 8; Sp. p. 2291; Gaz. vol. 151; p. 390.
Morgan, Harry D., and H. Schoby, Plain City, Ohio. Tamping-machine. No. 972,563; Oct. 11; Sp. p. 2287; Gaz. vol. 159; p. 394.
Morgan, Haze. (See Barrickman, Harry L., assignor.)
Morgan, Henry W., Rochester, N. Y. Corner-trimming machine for boxes and the like. No. 974,807; Nov. 8; Sp. p. 1647; Gaz. vol. 160; p. 276.
Morgan, Howard, Quinter, Kans. Telephone relay or repeater. No. 979,986; Dec. 27; Sp. p. 5542; Gaz. vol. 161; p. 957.
Morgan, J. C. (See Washington, Dixon E., assignor.)
Morgan, James, London, England. Speed-gearing. No. 954,987; Apr. 12; Sp. p. 2820; Gaz. vol. 153; p. 478.
Morgan, John, West Orange, N. J. Sink-strainer. No. 950,574; Mar. 1; Sp. p. 235; Gaz. vol. 152; p. 39.
Morgan, John B., Rochester, N. Y. Flushing and heating system. No. 976,484; Nov. 22; Sp. p. 5319; Gaz. vol. 160; p. 902.
Morgan, Joseph, Westmont, Pa., assignor to Cambria Steel Company. Gas-cleaning apparatus. No. 948,062; Feb. 1; Sp. p. 598; Gaz. vol. 151; p. 96.
Morgan, Lloyd G., East Orange, N. J. Dental appliance. No. 977,895; Dec. 6; Sp. p. 1031; Gaz. vol. 161; p. 164.
Morgan, Louis A., Richmond, Ind. Pump-operating mechanism for automobiles. No. 967,654; Aug. 16; Sp. p. 3862; Gaz. vol. 157; p. 663.
Morgan, Mary H. (See Morgan, William S., assignor.)
Morgan, Orville D., Burke, Wash. Clutch. No. 978,776; Dec. 13; Sp. p. 2934; Gaz. vol. 161; p. 496.
Morgan, Peter C., San Francisco, Cal. Clip for channel-irons. No. 968,586; Aug. 30; Sp. p. 5852; Gaz. vol. 157; p. 1032.
Morgan, Peyton L., and W. M. Brockenbrough, Lynchburg, Va. Machine for sawing circles. No. 974,172; Nov. 1; Sp. p. 138; Gaz. vol. 160; p. 25.
Morgan, Ralph L., Worcester, Mass. Wire-drawing machine. No. 975,979; Nov. 15; Sp. p. 4159; Gaz. vol. 160; p. 703.
Morgan, Richard W., assignor of one-half to B. F. Bastian, Sunbury, Pa. Spring-insole. No. 959,575; May 31; Sp. p. 6822; Gaz. vol. 154; p. 1161.

Alphabetical list of patentees—Continued.

Morgan, Richard W., assignor of one-half to B. F. Bastian, Sunbury, Pa. Spring-insole. No. 966,759; Aug. 9; Sp. p. 2019; Gaz. vol. 157; p. 336.
Morgan, Robert M., *et al.*, executors. (See Morgan, George W.)
Morgan, Saxton J., Albany, Wis. Friction speed-changing mechanism. No. 953,634; Mar. 29; Sp. p. 6573; Gaz. vol. 152; p. 1173.
Morgan Spring Company. (See Scott, George H., assignor.)
Morgan, Thomas H., McCartney, Pa. Car-brake. No. 952,924; Mar. 22; Sp. p. 5041; Gaz. vol. 152; p. 905.
Morgan, Thomas H., and W. H. Austin, Columbia, Miss. Lace-cabinet. No. 963,795; July 12; Sp. p. 1713; Gaz. vol. 156; p. 285.
Morgan, Thomas M., Williamsport, Pa. Type-writer attachment. No. 959,024; May 24; Sp. p. 5660; Gaz. vol. 154; p. 951.
Morgan, Thomas R., A. L. Atwater, B. A. Crowther, Pittston, and W. M. Ash, Williamsport, Pa. Steam-turbine. No. 971,918; Oct. 4; Sp. p. 875; Gaz. vol. 159; p. 150.
Morgan, Thomas W. (See Hackett and Morgan.)
Morgan, William H., Alliance, Ohio. Apparatus for making railway-ties from steel rails. No. 968,872; Aug. 30; Sp. p. 6474; Gaz. vol. 157; p. 1128.
Morgan, William H., Alliance, Ohio. Making railway-ties from steel rails. No. 968,873; Aug. 30; Sp. p. 6478; Gaz. vol. 157; p. 1128.
Morgan, William H., Alliance, Ohio. Apparatus for making railway-ties from steel rails. No. 968,874; Aug. 30; Sp. p. 6480; Gaz. vol. 157; p. 1128.
Morgan, William H., Alliance, Ohio. Method of and machine for flanging plates. No. 974,173; Nov. 1; Sp. p. 140; Gaz. vol. 160; p. 26.
Morgan, William H., Alliance, Ohio. Method of and apparatus for forming rail-seats in ties. No. 974,174; Nov. 1; Sp. p. 144; Gaz. vol. 160; p. 26.
Morgan, William S. (See Pearson, James H., assignor.)
Morgan, William S., assignor to M. H. Morgan, Antigo, Wis. Mixing and lubricating device. No. 974,175; Nov. 1; Sp. p. 146; Gaz. vol. 160; p. 27.
Morgan, William W., Hollywood, Cal. Surveyor's reel. No. 974,417; Nov. 1; Sp. p. 761; Gaz. vol. 160; p. 115.
Morgan, Windfrey S., Lewisville, Ark. Adjustable cultivating-harrow. No. 957,701; May 10; Sp. p. 2546; Gaz. vol. 154; p. 440.
Morgenstern & Company. (See May, Otto B., assignor.)
Moriarty, Thomas H., *et al.* (See Cummings, Michael H., assignor.)
Moriarty, Timothy, Seattle, Wash. Cattle-guard. No. 954,039; Apr. 5; Sp. p. 716; Gaz. vol. 153; p. 126.
Moriarty, Timothy, Quincy Point, Mass. Marine propelling mechanism. No. 965,532; July 26; Sp. p. 5490; Gaz. vol. 156; p. 935.
Morimura, Senshiro, Tokyo, Japan. Manufacture of plastic compounds. No. 955,421; Apr. 19; Sp. p. 3726; Gaz. vol. 153; p. 655.
Morin, John C., and F. M. Reed, assignors of one-third to R. H. Cook, Brookville, Ind. Apparatus for impregnating posts. No. 955,422; Apr. 19; Sp. p. 3730; Gaz. vol. 153; p. 655.
Morin, John M. (See McGrane, John F., assignor.)
Morin, Joseph, Seattle, Wash. Gage for crosscut-saws. No. 948,594; Feb. 8; Sp. p. 1724; Gaz. vol. 151; p. 299.
Morin, Leon J. (See Culver and Morin.)
Morison, Alexander, assignor of one-half to H. Nienstedt, Saginaw, Mich. Rotary moldboard for plows. No. 948,457; Feb. 8; Sp. p. 1417; Gaz. vol. 151; p. 253.
Morison, Donald B., Hartlepool, England. Cooling-tower. No. 965,116; July 19; Sp. p. 4573; Gaz. vol. 156; p. 763.
Morison, Donald B., Hartlepool, England. Water-heater. No. 967,142; Aug. 9; Sp. p. 2826; Gaz. vol. 157; p. 463.
Morison, Donald B., Hartlepool, England. Apparatus for withdrawing air and water from steam-condensers. No. 967,810; Aug. 16; Sp. p. 4173; Gaz. vol. 157; p. 716.
Morison, Donald B., Hartlepool, England. Apparatus for condensing steam. No. 979,540; Dec. 27; Sp. p. 4576; Gaz. vol. 161; p. 807.
Moritz, John G., Millersburg, Ohio. Steamer. No. 973,956; Oct. 25; Sp. p. 5323; Gaz. vol. 159; p. 925.
Moritz, Samuel S., Dayton, Wash. Tailor's measuring apparatus. No. 972,705; Oct. 11; Sp. p. 2589; Gaz. vol. 159; p. 442.
Mörk, Christen, assignor of one-half to E. Mallory, Portland, Oreg. Metal corner. No. 976,134; Nov. 15; Sp. p. 4488; Gaz. vol. 160; p. 757.
Mork, Harry S., assignor to Chemical Products Company, Boston, Mass. Cellulose ester and treating same. No. 972,464; Oct. 11; Sp. p. 2043; Gaz. vol. 159; p. 358.
Morlan, Ernest E., Garden City, Mo. Fountain-pen. No. 945,043; Jan. 4; Sp. p. 70; Gaz. vol. 150; p. 13.
Morlan, Ernest E., Columbia, Mo. Fountain-pen. No. 955,675; Apr. 19; Sp. p. 4291; Gaz. vol. 153; p. 742.
Morler, Christian. (See Hutteballe and Morler.)
Morley, Henry E., Detroit, Mich. Strainer or separator. No. 963,462; July 5; Sp. p. 1002; Gaz. vol. 156; p. 151.
Morley, John H., Johnstown, Pa. Swiveling attachment device for electrical apparatus. No. 972,209; Oct. 11; Sp. p. 1518; Gaz. vol. 159; p. 270.
Moroney, Patrick J., Philadelphia, Pa. Cap-spinning machine. No. 977,323; Nov. 29; Sp. p. 7136; Gaz. vol. 160; p. 1215.
Morphy, A. E., *et al.* (See Bowen, William M., assignor.)
Morral, Samuel E. and W. W., Morral, Ohio. Machine for cutting green corn from the cob. No. 975,631; Nov. 15; Sp. p. 3450; Gaz. vol. 160; p. 585.
Morral, William W. (See Morral, Samuel E. and W. W.)
Morrell, David H., Marion, Ind. Dinner-pail. No. 963,621; July 5; Sp. p. 1322; Gaz. vol. 156; p. 204.
Morren, Prosper, Brussels, Belgium. Spring suspension for vehicles. No. 977,392; Nov. 29; Sp. p. 7293; Gaz. vol. 160; p. 1239.
Morrice, James A. (See Thomson and Morrice.)
Morrill, Byron F., Nashua, N. H. Indexing device. No. 971,464; Sept. 27; Sp. p. 4883; Gaz. vol. 158; p. 855.
Morrill, Charles F., Boston, Mass. Making stone-concrete structures. No. 963,734; July 5; Sp. p. 1566; Gaz. vol. 156; p. 242.
Morrill, Ernest L., Saco, Me., assignor to Draper Company, Hopedale, Mass. Slasher. No. 949,732; Feb. 15; Sp. p. 4058; Gaz. vol. 151; p. 705.
Morrill, Ernest L., Saco, Me., assignor to Draper Company, Hopedale, Mass. Slasher. No. 964,531; July 19; Sp. p. 3263; Gaz. vol. 156; p. 562.
Morrill, George A. (See Thunen and Morrill.)
Morrill, Henry A., Strafford, Vt. Wrench. No. 979,327; Dec. 20; Sp. p. 4141; Gaz. vol. 161; p. 713.
Morrill, Vaughan, Tacoma, Wash. Starting apparatus for gasolene-engines. No. 962,653; June 28; Sp. p. 5103; Gaz. vol. 155; p. 892.
Morrin, Thomas F., Jr., administrator. (See Morrin, Thomas F.)
Morrin, Thomas F., deceased; T. F. Morrin, Jr., administrator, Jersey City, N. J. Steam-boiler. No. 950,296; Feb. 22; Sp. p. 5335; Gaz. vol. 151; p 936.
Morris, Alfred D., assignor to Morris Metallic Packing Company, Philadelphia, Pa. Rod-packing. No. 955,662; Apr. 19; Sp. p. 4268; Gaz. vol. 153; p. 738.
Morris, Andrew P., Snyder, Tex. Submerged double-acting pump. No. 975,781; Nov. 15; Sp. p. 3776; Gaz. vol. 160; p. 635.
Morris, Anthony P. (See Black and Morris.)
Morris, Anthony S., Haverford, assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporator. No. 965,395; July 26; Sp. p. 5170; Gaz. vol. 156; p. 887.
Morris, Anthony S., Haverford, assignor to Kestner Evaporator Company, Philadelphia, Pa. Feeding device for evaporators. No. 971,394; Sept. 27; Sp. p. 4765; Gaz. vol. 158; p. 835.
Morris, Anthony S., Haverford, assignor to Kestner Evaporator Company, Philadelphia, Pa. Feeding device for evaporators. No. 971,395; Sept. 27; Sp. p. 4767; Gaz. vol. 158; p. 835.
Morris, Boaz A., Newbern, N. C. Plow attachment. No. 976,677; Nov. 22; Sp. p. 5713; Gaz. vol. 160; p. 967.
Morris, Carrie B. (See Park, Ira L., assignor.)
Morris, Carrie C., Philadelphia, Pa. Collar-supporter. No. 960,989; June 7; Sp. p. 1502; Gaz. vol. 155; p. 252.
Morris, Charles A., Montclair, N. J. Hoisting and conveying mechanism. No. 949,961; Feb. 22; Sp. p. 4589; Gaz. vol. 151; p. 820.
Morris, Charles A., Montclair, N. J. Gripping mechanism. No. 975,710; Nov. 15; Sp. p. 3625; Gaz. vol. 160; p. 611.
Morris, Charles E., Philadelphia, Pa. Pocket for garments. No. 959,247; May 24; Sp. p. 6136; Gaz. vol. 154; p. 1025.
Morris, Charles F., Greenville, assignor of two-fifths to S. H. Ganong, Leland, Miss. Mail-crane. No. 954,988; Apr. 12; Sp. p. 2821; Gaz. vol. 153; p. 478.
Morris, Charles F. C., Stamford Hill, London, England. Non-slipping tire. No. 952,014; Mar. 15; Sp. p. 3162; Gaz. vol. 152; p. 569.
Morris, Edward J., assignor of one-half to A. J. L. Pendergast, Syracuse, N. Y. Can-heading machine. No. 949,682; Feb. 15; Sp. p. 3947; Gaz. vol. 151; p. 688.
Morris, George R., Chicago, Ill. Gas-engine. No. 971,919; Oct. 4; Sp. p. 877; Gaz. vol. 159; p. 151.
Morris, Gid M., and J. H. Watkins, Palestine, assignors of three-twelfths to J. O. Roberson, three-twelfths to W. R. Collier, one-twelfth to N. M. Crawford, Grand Saline, and one-twelfth to W. B. Wynne, Wills Point, Tex. Boiler attachment. No. 960,229; May 31; Sp. p. 8220; Gaz. vol. 154; p. 1383.
Morris, Harrison R., Mapleton, Kans. Egg-handler. No. 978,049; Dec. 6; Sp. p. 1347; Gaz. vol. 161; p. 216.
Morris, Harry, Chicago, Ill. Hair-pin. No. 969,178; Sept 6; Sp. p. 75; Gaz. vol. 158; p. 13.
Morris, Henry B., Grand Rapids, Mich., assignor of one-half to H. W. Johnson, Chicago, Ill. Cotton-harvesting machine. No. 951,652; Mar. 8; Sp. p. 2414; Gaz. vol. 152; p. 418.
Morris, Homer, Los Angeles, assignor of one-half to H. R. Gage, Ocean Park, Cal. Automatic liquid-measuring device. No. 962,911; June 28; Sp. p. 5614; Gaz. vol. 155; p. 983.
Morris, Hugh, Oklahoma, Okla. Sash-fastener. No. 959,150; May 24; Sp. p. 5932; Gaz. vol. 154; p. 993.
Morris, James A., Gillett Grove, Iowa. Wrench. No. 974,587; Nov. 1; Sp. p. 1172; Gaz. vol. 160; p. 178.

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Morris, James F., *et al.* (See Whipple, Charles R., assignor.)
Morris, James W., Oakland, Cal. Twine-holder. No. 953,280; Mar. 29; Sp. p. 5811; Gaz. vol. 152; p. 1051.
Morris, James W., Oakland, Cal. Twine-holder. No. 978,050; Dec. 6; Sp. p. 1350; Gaz. vol. 161; p. 217.
Morris, Johan, Sykesville, Pa. Table. No. 970,637; Sept. 20; Sp. p. 3214; Gaz. vol. 158; p. 553.
Morris, John O., Washington, D. C. Tobacco-stemming machine. No. 961,635; June 14; Sp. p. 2884; Gaz. vol. 155; p. 499.
Morris, John O., Washington, D. C., assignor to Southern Stemming Machine and Manufacturing Company, Guthrie, Okla. Tobacco-stemming machine. No. 959,375; May 24; Sp. p. 6386; Gaz. vol. 154; p. 1067.
Morris, John O., Washington, D. C., assignor, by mesne assignments, to National Tobacco Stemming Machine Company, Baltimore, Md. Stemming tobacco-leaves. No. 961,746; June 14; Sp. p. 3108; Gaz. vol. 155; p. 536.
Morris, John R., Marshalltown, Iowa. Pipe-wrench. No. 947,081; Jan. 18; Sp. p. 4599; Gaz. vol. 150; p. 759.
Morris, John R., Cobb, Fla. Pipe-coupling. No. 955,663; Apr. 19; Sp. p. 4270; Gaz. vol. 153; p. 738.
Morris, John W., Indianapolis, Ind. Hat-fastener. No. 975,060; Nov. 8; Sp. p. 2229; Gaz. vol. 160; p. 363.
Morris, Joseph C., Findlay, Ohio. Metallurgical process. No. 979,541; Dec. 27; Sp. p. 4581; Gaz. vol. 161; p. 807.
Morris, Leopold, Victoria, Tex. Animal trap or dip. No. 976,678; Nov. 22; Sp. p. 5713; Gaz. vol. 160; p. 967.
Morris Metallic Packing Company. (See Morris, Alfred D., assignor.)
Morris, Pinkney L., Grand Ridge, Fla. Stringed musical instrument. No. 961,883; June 21; Sp. p. 3428; Gaz. vol. 155; p. 606.
Morris, Robert B., and W. Kennedy, assignors of one-third to F. H. Howard, Harrisonville, Mo. Cotton and beet chopper and cultivator. No. 958,153; May 17; Sp. p. 3715; Gaz. vol. 154; p. 628.
Morris, Robert M. (See Anthony and Morris.)
Morris, Roy H. (See Donahoo, Peter B., assignor.)
Morris, Samuel L. H., *et al.* (See Cleaver, Fremont J., Sr., assignor.)
Morris, Thomas C., Little Rock, Ark. Conveyer-flight. No. 969,145; Aug. 30; Sp. p. 7029; Gaz. vol. 157; p. 1223.
Morris, Thomas C., Lockport, N. Y. Dust-pan. No. 979,784; Dec. 27; Sp. p. 5121; Gaz. vol. 161; p. 891.
Morris, Willard, Dansville, N. Y. Posting-ruler. No. 960,031; May 31; Sp. p. 7840; Gaz. vol. 154; p. 1317.
Morris, William, Brookport, Ill. Vehicle-wheel lubricator. No. 957,079; May 3; Sp. p. 1247; Gaz. vol. 154; p. 198.
Morris, William H., Copley, Ohio. Railway-tie. No. 979,785; Dec. 27; Sp. p. 5122; Gaz. vol. 161; p. 891.
Morris, William L., Batavia, Ill. Lubricating mechanism. No. 947,449; Jan. 25; Sp. p. 5437; Gaz. vol. 150; p. 910.
Morris, William L., Batavia, Ill. Device for measuring fluid flow. No. 967,953; Aug. 23; Sp. p. 4472; Gaz. vol. 157; p. 787.
Morris, William L., Chicago, Ill. Recording mechanism. No. 960,032; May 31; Sp. p. 7841; Gaz. vol. 154; p. 1317.
Morrison, Alexander, Glasgow, Scotland. Tube-cleaning apparatus. No. 954,002; Apr. 5; Sp. p. 634; Gaz. vol. 153; p. 113.
Morrison, Alexander F., Manchester, England. Ball tap or valve. No. 954,040; Apr. 5; Sp. p. 718; Gaz. vol. 153; p. 126.
Morrison, Alfred J. (See Hincher and Morrison.)
Morrison, Alvin N., Milltown, Wis. Detachable lantern-reflector. No. 947,596; Jan. 25; Sp. p. 5784; Gaz. vol. 150; p. 961.
Morrison, Andrew, Pittsburg, Pa. Tie-plate for railways. No. 956,398; Apr. 26; Sp. p. 5878; Gaz. vol. 153; p. 1022.
Morrison, Andrew, Pittsburg, Pa. Railway-tie plate. No. 961,517; June 14; Sp. p. 2630; Gaz. vol. 155; p. 459.
Morrison, Andrew M., Dubuque, Iowa. Boiler-riveting hammer. No. 969,553; Sept. 6; Sp. p. 869; Gaz. vol. 158; p. 136.
Morrison, Augustus H., assignor of one-fourth to H. G. Edmonds, one-fourth to C. C. Collette, and one-fourth to H. T. Warnick, Amsterdam, N. Y. Machine for trimming and cutting placket-openings in undergarments. No. 979,684; Dec. 27; Sp. p. 4890; Gaz. vol. 161; p. 857.
Morrison, Byron L., assignor of one-third to J. W. Ady, Colorado Springs, Colo. Journal-bearing. No. 957,435; May 10; Sp. p. 2023; Gaz. vol. 154; p. 350.
Morrison, Byron L., assignor of one-third to J. W. Ady, Colorado Springs, Colo. Tube-mill. No. 957,436; May 10; Sp. p. 2024; Gaz. vol. 154; p. 351.
Morrison, Clarence E., Albany, N. Y. Collar-button and necktie-fastener. No. 950,052; Feb. 22; Sp. p. 4845; Gaz. vol. 151; p. 853.
Morrison, Gertrude, New York, N. Y. Folding sketch-pad. No. 978,390; Dec. 13; Sp. p. 2111; Gaz. vol. 161; p. 367.
Morrison, Ira D., and L. J. Andrews, Savannah, Ga. Car-brake. No. 972,899; Oct. 18; Sp. p. 3051; Gaz. vol. 159; p. 537.
Morrison, J. May. (See Chamberlin, Newton F., assignor.)
Morrison, James, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Time-recorder. No. 945,044; Jan. 4; Sp. p. 71; Gaz. vol. 150; p. 14.
Morrison, John C., Columbus, Ohio. Billiard-cue-chalking device. No. 948,114; Feb. 1; Sp. p. 694; Gaz. vol. 151; p. 113.
Morrison, John G., New York, N. Y. Molding-machine. No. 951,830; Mar. 15; Sp. p. 2774; Gaz. vol. 152; p. 507.
Morrison, John G., New York, N. Y. Carrier for molders' flasks. No. 951,831; Mar. 15; Sp. p. 2780; Gaz. vol. 152; p. 508.
Morrison, John R., Hermosa Beach, assignor of one-half to I. D. Moon, Azusa, Cal. Nail-holding attachment. No. 976,679; Nov. 22; Sp. p. 5714; Gaz. vol. 160; p. 967.
Morrison, Joseph T., assignor of one-half to C. J. Stafford, Hartford, Conn. Pulley. No. 964,672; July 19; Sp. p. 3579; Gaz. vol. 156; p. 612.
Morrison, Lewis E., Newark, N. J., assignor to Automatic Platen Press Company, New York, N. Y. Sheet-registering device. No. 970,256; Sept. 13; Sp. p. 2396; Gaz. vol. 158; p. 404.
Morrison, Montford P., Atlanta, Ga. Cash-registering, change-making, and recording and accounting machine. No. 977,393; Nov. 29; Sp. p. 7294; Gaz. vol. 160; p. 1239.
Morrison, Robert J., St. Louis, Mo. Protector for pneumatic tires. No. 959,957; May 31; Sp. p. 7653; Gaz. vol. 154; p. 1290.
Morrison, Sylvanus S., Newport, assignor of nine-twentieths to W. L. Buckman, Covington, Ky. Automatic balancing mechanism in flying-machines. No. 972,395; Oct. 11; Sp. p. 1904; Gaz vol. 159; p. 334.
Morrison, William, Chicago, Ill. Secondary battery. No. 945,186; Jan. 4; Sp. p. 369; Gaz. vol. 150; p. 62.
Morrison, William, Chicago, Ill. Electric battery. No. 950,861; Mar. 1; Sp. p. 850; Gaz. vol. 152; p. 136.
Morrison, William, Des Moines, Iowa. Alkaline battery containing chromium and mercury. No. 975,885; Nov. 15; Sp. p. 3982; Gaz. vol. 160; p. 671.
Morrison, William, Des Moines, Iowa. Alkaline battery. No. 975,980; Nov. 15; Sp. p. 4160; Gaz. vol. 160; p. 704.
Morrison, William, Des Moines, Iowa. Electrode for reversible galvanic batteries. No. 975,981; Nov. 15; Sp. p. 4161; Gaz. vol. 160; p. 704.
Morrison, William, Des Moines, Iowa. Reversible galvanic battery. No. 976,092; Nov. 15; Sp. p. 4374; Gaz. vol. 160; p. 743.
Morrison, William, Des Moines, Iowa. Electrolyte for alkaline batteries. No. 976,277; Nov. 22; Sp. p. 4866; Gaz. vol. 160; p. 831.
Morrison, William, Des Moines, Iowa. Manufacturing material for alkaline batteries. No. 976,278; Nov. 22; Sp. p. 4867; Gaz. vol. 160; p. 831.
Morrison, William, Des Moines, Iowa. Making material for alkaline batteries. No. 976,279; Nov. 22; Sp. p. 4868; Gaz. vol. 160; p. 831.
Morrison, William, Des Moines, Iowa. Grid for reversible galvanic batteries. No. 976,824; Nov. 22; Sp. p. 6018; Gaz. vol. 160; p. 1016.
Morrison, William, Des Moines, Iowa. Secondary battery. (Reissue.) No. 13,174; Nov. 22; Sp. p. 6047; Gaz. vol. 160; p. 1023.
Morrison, William, Chicago, Ill., assignor of one-third to M. A. Lumbard, Des Moines, Iowa. Secondary battery. No. 945,243; Jan. 4; Sp. p. 493; Gaz. vol. 150; p. 81.
Morrison, William, Des Moines, Iowa, assignor to The Westinghouse Storage Battery Company. Secondary-battery plate. (Reissue.) No. 13,083; Feb. 15; Sp. p. 4112; Gaz. vol. 151; p. 713.
Morrison, William E., La Fayette, Ind. Airship. No. 970,532; Sept. 20; Sp. p. 2962; Gaz. vol. 158; p. 516.
Morrison, William E., and F. F. Minnich, Chicago, Ill. Culinary utensil. No. 967,954; Aug. 23; Sp. p. 4475; Gaz. vol. 157; p. 788.
Morrison, William F., *et al.* (See Lindsay, Franklin G., assignor.)
Morrison, William J., Pittsburg, Pa. Fluid-motor. No. 955,896; Apr. 26; Sp. p. 4796; Gaz. vol. 153; p. 848.
Morrison, Winfield S., San Francisco, Cal. Dentifrice. No. 947,120; Jan. 18; Sp. p. 4671; Gaz. vol. 150; p. 771.
Morrison, Winfield S., Oakland, Cal. Collapsible tube. No. 955,530; Apr. 19; Sp. p. 3950; Gaz. vol. 153; p. 603.
Morriss, Garnett E., and H. F. Beard, Mounds, Okla.; said Morriss assignor to said Beard. Band-cutter and feeder. No. 962,235; June 21; Sp. p. 4175; Gaz. vol. 155; p. 725.
Morrissey, John J., White Bear Lake, Minn. Automatic check for phonographs. No. 973,205; Oct. 18; Sp. p. 3762; Gaz. vol. 159; p. 643.
Morrissey, John S., Laconia, N. H. Flush-valve. No. 968,875; Aug. 30; Sp. p. 6483; Gaz. vol. 157; p. 1129.
Morrissy, Patrick F., J. Wise, and W. A. Byrne, assignors of one-fourth to J. X. Coughlin, Auburn, N. Y. Trolley-wheel. No. 968,876; Aug. 30; Sp. p. 6485; Gaz. vol. 157; p. 1129.
Morrow, John W., Henderson, Ky. Automatic railway-gate. No. 951,019; Mar. 1; Sp. p. 1141; Gaz. vol. 152; p. 185.
Morrow, Joseph L., Piggott, Ark. Game apparatus. No. 967,811; Aug. 16; Sp. p. 4180; Gaz. vol. 157; p. 716.
Morrow, Samuel W., Jr., Baltimore, Md. Pilot-burner. No. 977,531; Dec. 6; Sp. p. 268; Gaz. vol. 161; p. 39.

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Morrow, Thomas M., assignor to Thomas Holton's Sons, Philadelphia, Pa. Jacquard-machine. No. 955,664; Apr. 19; Sp. p. 4272; Gaz. vol. 153; p. 738.

Morrow, William L., Stockton, Cal. Gas-engine. No. 954,577; Apr. 12; Sp. p. 1875; Gaz. vol. 153; p. 335.

Morscher, Lawrence N. (See Ehrsam, Sieder, and Morscher.)

Morscher, Lawrence N., *et al.*, trustees. (See Ehrsam, Sieder, and Morscher, assignors.)

Morscher, Lawrence N., *et al.*, trustees. (See Morscher, Lawrence N., assignor.)

Morscher, Lawrence N., *et al.*, cotrustees. (See Morscher, Lawrence N., assignor.)

Morscher, Lawrence N., assignor to W. J. Ehrsam and L. N. Morscher, cotrustees, Enterprise, Kans. Apparatus for separation of particles from a fluid stream. No. 949,041; Feb. 15; Sp. p. 2668; Gaz. vol. 151; p. 475.

Morscher, Lawrence N., Lawrence, assignor to W. J. Ehrsam, Enterprise, and L. N. Morscher, trustees, Lawrence, Kans. Grader. No. 956,817; May 3; Sp. p. 690; Gaz. vol. 154; p. 109.

Morscher, Lawrence N., assignor to W. J. Ehrsam, Enterprise, and L. N. Morscher, Lawrence, Kans., cotrustees. Grader. No. 965,140; July 19; Sp. p. 4619; Gaz. vol. 156; p. 770.

Morscher, Lawrence N., Lawrence, assignor to W. J. Ehrsam, Enterprise, and L. N. Morscher, Lawrence, Kans., cotrustees. Grader. No. 967,411; Aug. 16; Sp. p. 3383; Gaz. vol. 157; p. 583.

Morscher, Lawrence N., Lawrence, Kans., assignor to himself, and W. J. Ehrsam, Enterprise, Kans., cotrustees. Grader. No. 969,971; Sept. 13; Sp. p. 1794; Gaz. vol. 158; p. 305.

Morse, A. C, *et al.* (See Greenslitt, Charles W., assignor.)

Morse, Ancil B., North Freedom, Wis. Door-supporting clamp. No. 961,983; June 21; Sp. p. 3625; Gaz. vol. 155; p. 638.

Morse, Arthur J., Torrington, Conn., assignor to Connecticut Motor Vehicle Company, New York, N. Y. Transmission-gearing. No. 954,453; Apr. 12; Sp. p. 1600; Gaz. vol. 153; p. 293.

Morse Chain Company. (See Morse, Frank L., assignor.)

Morse, Charles F., New York, N. Y. Transfer-ink and producing the same. No. 979,542; Dec. 27; Sp. p. 4581; Gaz. vol. 161; p. 807.

Morse Code Signal Co. (See Burnett, William S., assignor.)

Morse, Frank H. G., Cambridge, Mass. Shoe-polishing stand. No. 979,543; Dec. 27; Sp. p. 4583; Gaz. vol. 161; p. 807.

Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Sprocket-chain. No. 953,427; Mar. 29; Sp. p. 6135; Gaz. vol. 152; p. 1101.

Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Sprocket-chain. No. 953,428; Mar. 29; Sp. p. 6137; Gaz. vol. 152; p. 1102.

Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Drive-chain. No. 953,429; Mar. 29; Sp. p. 6139; Gaz. vol. 152; p. 1102.

Morse, Frank W., Boston, Mass. Hanger or support for telephone-wires. No. 963,056; July 5; Sp. p. 56; Gaz. vol. 156; p. 11.

Morse, Joseph E., Springfield, Vt. Lifting-jack. No. 948,517; Feb. 8; Sp. p. 1560; Gaz. vol. 151; p. 275.

Morse, Lester L., San Francisco, Cal. Foldable tray and rack support. No. 956,399; Apr. 26; Sp. p. 5879; Gaz. vol. 153; p. 1022.

Morse, Louis C., assignor to B. E. Drake, Muskogee, Okla. Liquid-fuel burner. No. 976,680; Nov. 22; Sp. p. 5716; Gaz. vol. 160; p. 967.

Morse, Orville M., Jackson, Mich. Apparatus for dust collection. No. 958,666; May 17; Sp. p. 4883; Gaz. vol. 154; p. 802.

Morse, Orville M., deceased, Jackson, Mich.; S. G. Morse, special administratrix. Dust-collector. No. 969,074; Aug. 30; Sp. p. 6881; Gaz. vol. 157; p. 1198.

Morse, Orville M., deceased, Jackson, Mich.; S. G. Morse, administratrix. Dust-collector. No. 979,987; Dec. 27; Sp. p. 5543; Gaz. vol. 161; p. 958.

Morse, Ralph W., Lansing, Mich. Vehicle-spring. No. 953,750; Apr. 5; Sp. p. 139; Gaz. vol. 153; p. 27.

Morse, Sarah G., administratrix. (See Morse, Orville M.)

Morse, Sarah G., special administratrix. (See Morse, Orville M.)

Morse Twist Drill & Machine Company (See Gregson, Lewis, assignor.)

Morse Twist Drill & Machine Company. (See Malmedie, Charles H., assignor.)

Morse Twist Drill & Machine Company. (See York and Hayden, assignors.)

Morse, William B., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Awl-grinding machine. No. 969,896; Sept. 13; Sp. p. 1625; Gaz. vol. 158; p. 280.

Morse, William R., Chicago, Ill. Car-seal. No. 965,924; Aug. 2; Sp. p. 159; Gaz. vol. 157; p. 27.

Morse, William W., Newark, N. J. Internal-combustion engine. No. 961,152; June 14; Sp. p. 1837; Gaz. vol. 155; p. 333.

Mortensen, Carl M., Minneapolis, Minn. Corner-fastening for glass show-cases. No. 952,834; Mar. 22; Sp. p. 4866; Gaz. vol. 152; p. 876.

Mortensen, Harry J., Oakland, Cal. Demountable wheel-rim. No. 957,080; May 3; Sp. p. 1248; Gaz. vol. 154; p. 198.

Morterud, Einar, Torderód, near Moss, Norway. Manufacture of cellulose. No. 947,974; Feb. 1; Sp. p. 414; Gaz. vol. 151; p. 66.

Morterud, Einar, Torderód, near Moss, Norway. Digester for the production of cellulose. No. 966,112; Aug. 2; Sp. p. 565; Gaz. vol. 157; p. 92.

Mortimer, Frederick E., assignor of one-half to J. E. Hutchings, Boston, Mass. Film-cleaning device. No. 977,466; Dec. 6; Sp. p. 80; Gaz. vol. 161; p. 16.

Morton, Baxter, New York, N. Y., assignor, by mesne assignments, to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Graphophone. No. 948,959; Feb. 8; Sp. p. 2473; Gaz. vol. 151; p. 420.

Morton, Frank M., Phoenix, Ala., assignor to Columbus Truck and Supply Mfg. Co., Columbus, Ga. Collapsible revolving-beam vacuum dyeing-machine. No. 975,269; Nov. 8; Sp. p. 2689; Gaz. vol. 160; p. 435.

Morton, Frank M., Phoenix, Ala., assignor to Columbus Truck and Supply Mfg. Co., Columbus, Ga. Ribbed revolving vacuum-beam for dyeing-machines. No. 975,270; Nov. 8; Sp. p. 2691; Gaz. vol. 160; p. 435.

Morton, Fred S., assignor to Matthews Manufacturing Co., Worcester, Mass. Wheel or roller. No. 948,063; Feb. 1; Sp. p. 600; Gaz. vol. 151; p. 96.

Morton, Frederic C., Cambridge, assignor of one-half to W. E. Brand, Boston, Mass. Apparatus for fighting fires. No. 966,346; Aug. 2; Sp. p. 1036; Gaz. vol. 157; p. 167.

Morton, George E., Chicago, Ill., assignor of one-half to E. W. Finck, St. Paul, Minn. Manifolding order-slip. No. 962,451; June 28; Sp. p. 4670; Gaz. vol. 155; p. 824.

Morton, Henry S. (See Anderson, Lars, assignor.)

Morton, Judson R., and W. H. Stoddard, Detroit, Mich. Smoke-preventing device. No. 945,339; Jan. 4; Sp. p. 732; Gaz. vol. 150; p. 112.

Moseley, Hubbert E., *et al.* (See Ashford, Thomas B., assignor.)

Moser, Ernst, Zurich, Switzerland. Sharpening device. No. 946,554; Jan. 18; Sp. p. 3467; Gaz. vol. 150; p. 583.

Moser, Frank W. (See Rearwin, Wilber D., assignor.)

Moser, Fred J., Kane, Pa. Reel. No. 964,116; July 12; Sp. p. 2400; Gaz. vol. 156; p. 394.

Moses, Jacob B., Dallas, Tex. Holder for sound-record tablets. No. 968,253; Aug. 23; Sp. p. 5162; Gaz. vol. 157; p. 889.

Moses, William S., Tracy, Minn. Rotary engine. No. 970,942; Sept. 20; Sp. p. 3844; Gaz. vol. 158; p. 656.

Moseson, Charles M. L., Fitchburg, Mass. Friction-clutch. No. 951,485; Mar. 8; Sp. p. 2091; Gaz. vol. 152; p. 362.

Mosher, Charles P., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 956,133; Apr. 26; Sp. p. 5299; Gaz. vol. 153; p. 931.

Mosher, Clarence H., Salisbury Mills, N. Y. Rake for rotary lawn-cleaners. No. 948,820; Feb. 8; Sp. p. 2216; Gaz. vol. 151; p. 375.

Mosher, Ralph E., assignor of one-half to A. D. Rathbone, Grand Rapids, Mich. Sheet-metal radiator. No. 976,203; Nov. 22; Sp. p. 4658; Gaz. vol. 160; p. 803.

Mosier, Harry L., Keller, Tex. Fruit-picker. No. 972,900; Oct. 18; Sp. p. 3052; Gaz. vol. 159; p. 537.

Mosiman, John, Sedalia, Mo. Jack. No. 968,254; Aug. 23; Sp. p. 5163; Gaz. vol. 157; p. 889.

Moskowitz, Joseph. (See Finkelstein, Maurice S., assignor.)

Mosler, Arthur R., assignor to A. R. Mosler & Co., New York, N. Y. Terminal for electric wires. No. 954,872; Apr. 12; Sp. p. 2585; Gaz. vol. 153; p. 440.

Mosler, Moses, New York, N. Y. Attachment for combination-dials on safes, vaults, &c. No. 961,884; June 21; Sp. p. 3429; Gaz. vol. 155; p. 606.

Mosler Safe Company, The. (See Bartels, Carl, assignor.)

Mosley, Arthur. (See Metz and Mosley.)

Mosley, William, St. Paul, Minn. Locomotive. No. 950,005; Feb. 22; Sp. p. 4739; Gaz. vol. 151; p. 836.

Mosman, Charles F. (See Bassick and Mosman.)

Mosner, John. (See Hankin and Mosner.)

Moss, Archie Q. (See Moss, Marten D. and A. Q.)

Moss, J. E. (See McKibben, Wilbert E., assignor.)

Moss, James A., Fort Leavenworth, Kans. Soap-holder. No. 978,189; Dec 13; Sp. p. 1679; Gaz. vol. 161; p. 295.

Moss, Marten D. and A. Q., Elberton, Ga. Bridle-bit. No. 970,083; Sept. 13; Sp. p. 2028; Gaz. vol. 158; p. 344.

Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Gas-turbine. No. 969,760; Sept. 6; Sp. p. 1304; Gaz. vol. 158; p. 209.

Moss, Thomas, Portsmouth, and W. Moss, Wigan, England. Fluid-pressure motor and pump. No. 950,945; Mar. 1; Sp. p. 1012; Gaz. vol. 152; p. 162.

Moss, William. (See Moss, Thomas and W.)

Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Wrench. No. 949,083; Feb. 15; Sp. p. 2748; Gaz. vol. 151; p. 488.

Alphabetical list of patentees—Continued.

Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Reel. No. 962,452; June 28; Sp. p. 4670; Gaz. vol. 155; p. 824.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Reel. No. 962,453; June 28; Sp. p. 4671; Gaz. vol. 155; p. 824.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Reel. No. 962,654; June 28; Sp. p. 5105; Gaz. vol. 155; p. 893.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Braider-spool. No. 962,715; June 28; Sp. p. 5240; Gaz. vol. 155; p. 915.
Mossberg Wrench Company, The. (See Wallenthin and Smith, assignors.)
Mosteller, Dosier H., assignor to The Mosteller Manufacturing Company, Chicago, Ill. Ice-cream spoon. No. 951,571; Mar. 8; Sp. p. 2249; Gaz. vol. 152; p. 391.
Mosteller, Dosier H., assignor to The Mosteller Manufacturing Company, Chicago, Ill. Ice-cream spoon. (Reissue.) No. 13,170; Nov. 22; Sp. p. 6039; Gaz. vol. 160; p. 1021.
Mosteller Manufacturing Company, The. (See Mosteller, Dosier H., assignor.)
Mothersill, Philip, Vancouver, British Columbia, Canada. Folding desk. No. 952,624; Mar. 22; Sp. p. 4411; Gaz. vol. 152; p. 804.
Motor Car Co. (See Carter, Byron J., assignor.)
Motsinger Device Mfg. Co. (See Motsinger, Homer N., assignor.)
Motsinger, Homer N., assignor to Motsinger Device Mfg. Co., Pendleton, Ind. Governor. No. 963,309; July 5; Sp. p. 695; Gaz. vol. 156; p. 99.
Motsinger, Homer N., assignor to Motsinger Device Mfg. Co., Pendleton, Ind. Storage-battery circuit controller and tester. No. 972,210; Oct. 11; Sp. p. 1520; Gaz. vol. 159; p. 271.
Motsinger, Newell H., Greensburg, Pa. Rotary engine. No. 960,990; June 7; Sp. p. 1503; Gaz. vol. 155; p. 252.
Motsinger, Newell H., Greensburg, Pa. Rotary engine. No. 960,991; June 7; Sp. p. 1510; Gaz. vol. 155; p. 253.
Motsinger, Newell H., Greensburg, Pa. Rotary engine. No. 960,992; June 7; Sp. p. 1514; Gaz. vol. 155; p. 253.
Motsinger, Newell H., Greensburg, Pa. Rotary engine. No. 960,993; June 7; Sp. p. 1517; Gaz. vol. 155; p. 254.
Motsinger, Newell H., Greensburg, Pa. Rotary engine. No. 960,994; June 7; Sp. p. 1521; Gaz. vol. 155; p. 254.
Mott, Abram C., Philadelphia, Pa. Gas heating-stove. No. 951,693; Mar. 8; Sp. p. 2483; Gaz. vol. 152; p. 431.
Mott, Frank B. (See Smith, William H., assignor.)
Mott, Garret, Yonkers, assignor to The Unit Steel Cabinet Company, New York, N. Y. Document-file. No. 964,117; July 12; Sp. p. 2401; Gaz. vol. 156; p. 394.
Mott, Kenneth. (See Paul, Christian F., Jr., assignor.)
Mott, William P., Chicago, Ill. Sand-blast apparatus. No. 975,782; Nov. 15; Sp. p. 3778; Gaz. vol. 160; p. 636.
Motter, Elmer E., Tippecanoe City, Ohio. Machine for cutting fat and other substances. No. 971,624; Oct. 4; Sp. p. 247; Gaz. vol. 159; p. 44.
Motter, Harry P., assignor of one-half to J. W. Bowman, Harrisburg, Pa. Yieldable pulley. No. 975,564; Nov. 15; Sp. p. 3319; Gaz. vol. 160; p. 563.
Motter, John A., *et al.* (See Prilliman, Daniel, assignor.)
Mottert, Emil C., Tenmile, La. Elevator-hood for harvesters. No. 957,437; May 10; Sp. p. 2024; Gaz. vol. 154; p. 351.
Motz, Charles F., Moon township, Beaver county, Pa., assignor, by mesne assignments, to Empire Globe Company, New York, N. Y. Sand-blast machine. No. 955,468; Apr. 19; Sp. p. 3821; Gaz. vol. 153; p. 671.
Motz, Charles F., Moon township, Beaver county, Pa., assignor, by mesne assignments, to Empire Globe Company, New York, N. Y. Sand-blast machine. No. 955,469; Apr. 19; Sp. p. 3823; Gaz. vol. 153; p. 672.
Motz, Charles F., Moon township, Beaver county, Pa., assignor, by mesne assignments, to Empire Globe Company, New York, N. Y. Sand-blast machine. No. 955,470; Apr. 19; Sp. p. 3825; Gaz. vol. 153; p. 672.
Motz, Charles F., Moon township, Beaver county, Pa., assignor, by mesne assignments, to Empire Globe Company, New York, N. Y. Sand-blast machine. No. 955,471; Apr. 19; Sp. p. 3826; Gaz. vol. 153; p. 672.
Motz, Jacob F., Pittsburg, Pa., assignor to The Electric Controller and Supply Company, Cleveland, Ohio. Lifting-magnet controller. No. 960,995; June 7; Sp. p. 1526; Gaz. vol. 155; p. 255.
Mouat, Thomas G., Bratenahl, Ohio. Pressure-regulating apparatus. No. 967,812; Aug. 16; Sp. p. 4181; Gaz. vol. 157; p. 716.
Mouat, Thomas G., Bratenahl, Ohio. Radiator-fitting. No. 973,063; Oct. 18; Sp. p. 3427; Gaz. vol. 159; p. 593.
Moudy, Willard A., assignor of one-third to W. Thorn and one-third to F. Magee, Port Huron, Mich. Receptacle. No. 960,996; June 7; Sp. p. 1528; Gaz. vol. 155; p. 255.
Moukos, Charles. (See Matchette and Moukos.)
Moukos, Charles. (See Matchette, Gordon, and Moukos.)
Moukos, Charles. (See Matchette, Raddatz, and Moukos.)
Moukos, Charles, Chicago, Ill. Pump. No. 953,430; Mar. 29; Sp. p. 6140; Gaz. vol. 152; p. 1102.
Moulthrop, Harrison B. and H. C., Conneautville, Pa. Road-machine. No. 975,783; Nov. 15; Sp. p. 3780; Gaz. vol. 160; p. 636.
Moulthrop, Henry C. (See Moulthrop, Harrison B. and H. C.)
Moulthrop, Lembert H., assignor to The Bryant Electric Company, Bridgeport, Conn. Socket-spindle. No. 946,390; Jan. 11; Sp. p. 3119; Gaz. vol. 150; p. 502.
Moulton, James F., Baltimore, Md. Vending-machine. No. 954,873; Apr. 12; Sp. p. 2586; Gaz. vol. 153; p. 440.
Moun, Peder N., Kloten, N. D. Rotary harrow. No. 974,808; Nov. 8; Sp. p. 1650; Gaz. vol. 160; p. 276.
Mound City Paint & Color Company. (See Mellen, William S., assignor.)
Mount, Charles. (See Leidecker, Frank W., assignor.)
Mount, James G. (See Nicholson, Marcus D., assignor.)
Mount, James H., Jamesburg, N. J. Talking-machine. No. 949,939; Feb. 22; Sp. p. 4549; Gaz. vol. 151; p. 812.
Mount, William D., Saltville, Va. Barrel-heater. No. 964,673; July 19; Sp. p. 3580; Gaz. vol. 156; p. 613.
Mountford, Thomas, Newark, N. J., assignor to Blancard & Company, New York, N. Y. Safety-catch. No. 950,553; Mar. 1; Sp. p. 191; Gaz. vol. 152; p. 32.
Mouzon, Henry D., assignor of one-third to J. H. Ferguson and one-third to G. M. Alsup, McKinney, Tex. Photographic-printing cabinet. No. 976,280; Nov. 22; Sp. p. 4869; Gaz. vol. 160; p. 831.
Mowat, Donald, San Francisco, Cal. Manufacture of fireproof partitions. No. 958,419; May 17; Sp. p. 4402; Gaz. vol. 154; p. 720.
Mowat, Oliver M., McKeesport, assignor to National Tube Company, Pittsburg, Pa. Recessing-machine. No. 967,219; Aug. 16; Sp. p. 2976; Gaz. vol. 157; p. 516.
Mowcomber, Thomas, Elkland, Pa. Burner attachment. No. 962,161; June 21; Sp. p. 4040; Gaz. vol. 155; p. 702.
Mowen, Daniel H., Hagerstown, Md. Ventilator. No. 967,028; Aug. 9; Sp. p. 2585; Gaz. vol. 157; p. 424.
Mower, Edwin F., Boston, assignor to Union Shank Company, Whitman, Mass. Machine for attaching shank-pieces. No. 965,213; July 26; Sp. p. 4772; Gaz. vol. 156; p. 825.
Mowery, Nelson, Wilkes-Barre, Pa. Centrifugal coal-separator. No. 964,444; July 12; Sp. p. 3034; Gaz. vol. 156; p. 501.
Mowry, Albert L., assignor to H. R. McLellan, St. John, New Brunswick, Canada. Piston. No. 957,984; May 17; Sp. p. 3225; Gaz. vol. 154; p. 567.
Mowry, Alvah L., and J. F. Mullaney, Colorado Springs, Colo.; said Mowry assignor to said Mullaney. Milk-strainer. No. 966,039; Aug. 2; Sp. p. 420; Gaz. vol. 157; p. 67.
Mowry, Archie C. (See Fogal, Crichton, and Mowry.)
Mowry, Edward S., Middletown, Conn. Flagstaff. No. 968,067; Aug. 23; Sp. p. 4747; Gaz. vol. 157; p. 826.
Mowry, Samuel, and J. Hursh, Mansfield, Ohio. Floor-scraper. No. 953,098; Mar. 29; Sp. p. 5417; Gaz. vol. 152; p. 992.
Moxon, George C., *et al.* (See De Lukacsevics, Charles, assignor.)
Moyer, Abraham, Moyers, Okla. Wagon-bed hoist. No. 960,670; June 7; Sp. p. 883; Gaz. vol. 155; p. 146.
Moyer, Charles, Harmony, Pa. Rail-tie. No. 952,925; Mar. 22; Sp. p. 5042; Gaz. vol. 152; p. 905.
Moyer, Harvey A., *et al.* (See Kavle, Oscar C., assignor.)
Moyer, Harvey A. (See Latta and Herrmann, assignors.)
Moyer, Harvey S., assignor of one-half to M. S. Moyer, Lansdale, Pa. Ribbon-bolt. No. 959,781; May 31; Sp. p. 7235; Gaz. vol. 154; p. 1228.
Moyer, Henry L., Shickshinny, Pa. Rail-joint. No. 967,655; Aug. 16; Sp. p. ? 364; Gaz. vol. 157; p. 663.
Moyer, Menno S. (See Moyer, Harvey S., assignor.)
Moyer, Oscar E., Elgin, Ill. Penholder. No. 960,373; June 7; Sp. p. 277; Gaz. vol. 155; p. 47.
Moyer, Walter S., *et al.* (See Sutton, Henry G., assignor.)
Moyet, Jean-Baptiste, and H. Bouvier, Grenoble, France. Uncoupling device. No. 956,400; Apr. 26; Sp. p. 5880; Gaz. vol. 153; p. 1022.
Moylan, Bryan. (See Hadley and Moylan.)
Moyle, Edward H., Los Angeles, Cal. Revolving distributer for pulp or liquid. No. 968,182; Aug. 23; Sp. p. 5018; Gaz. vol. 157; p. 865.
Moyle, Frank, Jamestown, Cal. Pneumatic safety-valve. No. 948,469; Feb. 8; Sp. p. 1446; Gaz. vol. 151; p. 257.
Mrazek, John, Chicago, Ill. Sign-letter. No. 949,155; Feb. 15; Sp. p. 2897; Gaz. vol. 151; p. 513.
Mrokowski, Stefan, Sosnowice, Russia. Blind or awning. No. 960,230; May 31; Sp. p. 8222; Gaz. vol. 154; p. 1384.
Mrokowski, Stefan, Sosnowice, Russia. Flooring. No. 966,347; Aug. 2; Sp. p. 1045; Gaz. vol. 157; p. 168.
Muchka, Josef, Vienna, Austria-Hungary. Separator. No. 947,393; Jan. 25; Sp. p. 5313; Gaz. vol. 150; p. 893.
Muchka, Josef, Vienna, Austria-Hungary. Separator. No. 960,374; June 7; Sp. p. 278; Gaz. vol. 155; p. 47.
Muchka, Josef, Vienna, Austria-Hungary. Testing device. No. 961,419; June 14; Sp. p. 2414; Gaz. vol. 155; p. 426.
Muchlmatt, Adolph, Newport, Ky. Tool-sharpener. No. 974,907; Nov. 8; Sp. p. 1876; Gaz. vol. 160; p. 310.
Mucklé, John S., Philadelphia, Pa. Fastening device for burial-caskets, &c. No. 955,665; Apr. 19; Sp. p. 4274; Gaz. vol. 153; p. 739.

Muckle, John S., Philadelphia, Pa. Car-vestibule door. No. 956,500; Apr. 26; Sp. p. 6107; Gaz. vol. 153; p. 1057.
Muckle, John S., assignor to Standard Elevator Interlock Company, Philadelphia, Pa. Interlock mechanism for elevators. No. 957,702; May 10; Sp. p. 2549; Gaz. vol. 154; p. 441.
Mudd, Francis X., assignor to Live Poultry Transportation Company, Chicago, Ill. Poultry-car. No. 956,401; Apr. 26; Sp. p. 5882; Gaz. vol. 153; p. 1022.
Mudd, Joseph A., Chicago, Ill. Loose-leaf binder. No. 977,120; Nov. 29; Sp. p. 6731; Gaz. vol. 160; p. 1145.
Mudd, William S., Bloomfield, Iowa. Hip-strap supporter. No. 960,375; June 7; Sp. p. 280; Gaz. vol. 155; p. 47.
Mudroch, John W., *et al.* (See Gullickson, Charles M., assignor.)
Muehleisen, Carl, Berlin, Germany, assignor to The Mergenthaler Linotype Company, New York, N. Y. Means for leveling matrices in typographical composing-machines. No. 952,271; Mar. 15; Sp. p. 3643; Gaz. vol. 152; p. 654.
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Means for adjusting the molds of typographical line-casting machines. No. 966,227; Aug. 2; Sp. p. 823; Gaz. vol. 157; p. 131.
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Apparatus for effecting separation of matrices and space-bars in typographical composing-machines. No. 973,454; Oct. 18; Sp. p. 4272; Gaz. vol. 159; p. .728.
Muehleisen, Carl, and C. A. Albrect, Berlin, Germany, assignors to Mergenthaler Linotype Company. Means for assembling multiple-face matrices in typographical composing-machines. No. 966,228; Aug. 2; Sp. p. 825; Gaz. vol. 157; p. 131.
Muehleisen, Carl, G. Molkenthin, Berlin, and L. Leidenberg, Pankow, Berlin, Germany, assignors to Mergenthaler Linotype Company. Means for producing tabular matter in typographical machines. No. 968,490; Aug. 23; Sp. p. 5630; Gaz. vol. 157; p. 972.
Muehleisen, Thomas, San Diego, Cal. Gas-generating oil-burner. No. 973,804; Oct. 25; Sp. p. 5014; Gaz. vol. 159; p. 872.
Muehler, William H., Denver, Colo. Tool-holder. No. 963,921; July 12; Sp. p. 1989; Gaz. vol. 156; p. 327.
Muehlhausen, Henry, Jr., and J. Thomsen, Chicago, Ill. Vehicle shock-absorber. No. 946,555; Jan. 18; Sp. p. 3468; Gaz. vol. 150; p. 583.
Muehlhauser, Martin W., assignor to M. S. Towson, Cleveland, Ohio. Emergency-brake. No. 977,824; Dec. 6; Sp. p. 883; Gaz. vol. 161; p. 138.
Muehlmatt, Adolph, Newport, Ky. Boring-head for lathes, milling-machines, and the like. No. 973,542; Oct. 25; Sp. p. 4468; Gaz. vol. 159; p. 780.
Muehlstein, Adolph O., Pittsburg, Pa. Toy. No. 949,544; Feb. 15; Sp. p. 3701; Gaz. vol. 151; p. 643.
Muehr, Lawrence J., Duluth, Minn. Folding step-ladder. No. 979,988; Dec. 27; Sp. p. 5546; Gaz. vol. 161; p. 958.
Muehr, Lawrence J., Duluth, Minn. Support for stringing cables. No. 979,989; Dec. 27; Sp. p. 5548; Gaz. vol. 161; p. 959.
Mueller, Adolph, *et al.*, executors. (See Mueller, Henry.)
Mueller, Curt B., Cleveland, Ohio. Tennis-racket. No. 971,773; Oct. 4; Sp. p. 549; Gaz. vol. 159; p. 96.
Mueller, Engelbert, Reserve township, Allegheny county, Pa. Artificial foot and ankle-joint. No. 963,796; July 12; Sp. p. 1715; Gaz. vol. 156; p. 286.
Mueller, Engelbert, Reserve township, Allegheny county, Pa. Artificial limb. No. 963,797; July 12; Sp. p. 1718; Gaz. vol. 156; p. 286.
Mueller, Felix, and G. W. Gwinn, assignors to Standard Stopper Company, New York, N. Y. Capping-machine. No. 954,200; Apr. 5; Sp. p. 1066; Gaz. vol. 153; p. 181.
Mueller, George, Salt Lake City, Utah. Coffee and tea percolator. No. 967,813; Aug. 16; Sp. p. 4133; Gaz. vol. 157; p. 717.
Mueller, George, Salt Lake City, Utah. Bread or other commodity catching device. No. 977,212; Nov. 29; Sp. p. 6932; Gaz. vol. 160; p. 1178.
Mueller, Gotfried H., Spokane, Wash. Mail-bag-delivery apparatus. No. 945,853; Jan. 11; Sp. p. 1898; Gaz. vol. 150; p. 315.
Mueller, Henry, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Cock and faucet. No. 950,186; Feb. 22; Sp. p. 5114; Gaz. vol. 151; p. 897.
Mueller, Henry, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Rotatable index for cocks. No. 950,187; Feb. 22; Sp. p. 5116; Gaz. vol. 151; p. 898.
Mueller, Henry, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Faucet. No. 955,531; Apr. 19; Sp. p. 3951; Gaz. vol. 153; p. 693.
Mueller, Henry, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Handle for faucets. No. 963,166; July 5; Sp. p. 352; Gaz. vol. 156; p. 50.
Mueller, Henry, deceased; O. B. and A. Mueller, executors, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Pipe-coupling. No. 980,116; Dec. 27; Sp. p. 5854; Gaz. vol. 161; p. 1001.
Mueller, Henry and P., assignors to The H. Mueller Manufacturing Company, Decatur, Ill. Combined waste and overflow. No. 962,577; June 28; Sp. p. 4954; Gaz. vol. 155; p. 868.
Mueller, Hermann F., Minneapolis, Minn. Suction-valve for gas-engines. No. 963,463; July 5; Sp. p. 1005; Gaz. vol. 156; p. 151.
Mueller, Herman J., Sugar Loaf township, St. Clair county, Ill. Self-feeder for feed-cutters. No. 972,465; Oct. 11; Sp. p. 2044; Gaz. vol. 159; p. 358.
Mueller, John J., Jr., Peru, Ill. Automatic potential-regulator for dynamos. No. 965,396; July 26; Sp. p. 5171; Gaz. vol. 156; p. 887.
Mueller, Louis, Owosso, Mich. Apparatus for germinating grain. No. 951,286; Mar. 8; Sp. p. 1666; Gaz. vol. 152; p. 295.
Mueller, Max A., Brooklyn, N. Y. Knitted sweater. No. 957,854; May 10; Sp. p. 2863; Gaz. vol. 154; p. 490.
Mueller, Ora B., *et al.*, executors. (See Mueller, Henry.)
Mueller, Oscar B., New Rochelle, N. Y., assignor to National Water Main Cleaning Company. Jack. No. 952,130; Mar. 15; Sp. p. 3378; Gaz. vol. 152; p. 607.
Mueller, Otto H., Camberwell, England, assignor to H. R. Worthington. Counter-current condenser. No. 952,461; Mar. 22; Sp. p. 4033; Gaz. vol. 152; p. 746.
Mueller, Philip. (See Mueller, Henry and P.)
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Metal-mold. No. 951,962; Mar. 15; Sp. p. 3056; Gaz. vol. 152; p. 552.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Compression-valve fitting. No. 953,966; Apr. 5; Sp. p. 554; Gaz. vol. 153; p. 100.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Fuller-valve fitting. No. 953,967; Apr. 5; Sp. p. 556; Gaz. vol. 153; p. 100.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Compression stop and waste. No. 962,516; June 28; Sp. p. 4804; Gaz. vol. 155; p. 846.
Mueller, Reinhold, Stuttgart, Germany. Fur-beating machine. No. 962,236; June 21; Sp. p. 4177; Gaz. vol. 155; p. 726.
Mueller, Richard W. (See Conrad, Richard D., assignor.)
Mueller, Robert F. (See Kistner, Henry N., assignor.)
Mueller, Robert G., Yonkers, assignor of one-half to F. Geh, New York, N. Y. Shock-absorber. No. 949,833; Feb. 22; Sp. p. 4293; Gaz. vol. 151; p. 774.
Mueller, Theodor M., New York, N. Y. High-frequency magneto. No. 958,754; May 24; Sp. p. 5072; Gaz. vol. 154; p. 857.
Mueller, Theodor M., Braintree, Mass. Device for timing magnetos to operate with two-cylinder gas-engines set V-shaped. No. 964,298; July 12; Sp. p. 2766; Gaz. vol. 156; p. 456.
Mueller, Traugott J., Newark, N. J. Street-car. No. 964,929; July 19; Sp. p. 4205; Gaz. vol. 156; p. 701.
Mueller, Wilhelm, Dusseldorf, Germany. Coke-oven. No. 958,154; May 17; Sp. p. 3718; Gaz. vol. 154; p. 628.
Mueller, Wilhelm, Düsseldorf, Germany. Coke-furnace. No. 971,137; Sept. 27; Sp. p. 4248; Gaz. vol. 158; p. 749.
Mueninghaus, Georgie W., St. Louis, Mo. Chimney-top. No. 950,142; Feb. 22; Sp. p. 5015; Gaz. vol. 151; p. 882.
Muennink, George, *et al.* (See Cameron, George W., assignor.)
Muennink, John, *et al.* (See Cameron, George W., assignor.)
Muenzenmaier, George A., Lebanon, and F. M. See, Silverton, assignors to The Peters Cartridge Company, Cincinnati, Ohio. Bullet. No. 974,418; Nov. 1; Sp. p. 762; Gaz. vol. 160; p. 115.
Mug, Edward T., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Brush for dynamo-electric machines. No. 969,796; Sept. 13; Sp. p. 1396; Gaz. vol. 158; p. 245.
Mugdan, Martin, and W. Herrmann, assignors to Consortium für Elektrochemische Industrie, Gesellschaft mit beschränkter Haftung, Nuremberg, Germany. Making indoxyl, &c. No. 960,671; June 7; Sp. p. 884; Gaz. vol. 155; p. 146.
Muheim, Joseph F., Warren, Mass. Builder-motion in spinning-frames. No. 949,399; Feb. 15; Sp. p. 3415; Gaz. vol. 151; p. 597.
Muhl, Ferdinand, Pittsburg, Pa. Ball-cock. No. 950,946; Mar. 1; Sp. p. 1015; Gaz. vol. 152; p. 162.
Muhlfeld, Frank J., New York, N. Y. Making two-piece felt hats from a single body. No. 946,975; Jan. 18; Sp. p. 4408; Gaz. vol. 150; p. 725.
Muir, Craig, New York, N. Y. Bouquet-holder. No. 971,774; Oct. 4; Sp. p. 552; Gaz. vol. 159; p. 96.
Muir, Reginald L., San Francisco, Cal. Chain-saw attachment. No. 951,510; Mar. 8; Sp. p. 2132; Gaz. vol. 152; p. 370.
Muirhead, James, Pawtucket, R. I. Burner for water-heaters. No. 977,214; Nov. 29; Sp. p. 6934; Gaz. vol. 160; p. 1178.
Mulder, Everett, New York, N. Y. Faucet. No. 979,084; Dec. 20; Sp. p. 3599; Gaz. vol. 161; p. 628.
Mulder, Henry J., Alton, Iowa. Handle attachment. No. 946,976; Jan. 18; Sp. p. 4410; Gaz. vol. 150; p. 725.
Mulford, Robert H., Connellsville, Pa. Bowling-cabinet. No. 948,238; Feb. 1; Sp. p. 936; Gaz. vol. 151; p. 154.

Alphabetical list of patentees—Continued.

Mulheir, James M., New York, N. Y. Strainer. No. 948,185; Feb. 1; Sp. p. 827; Gaz. vol. 151; p. 136.
Mulholland, Mathew, Cleveland, Ohio. Hatch-fastener for vessels. No. 970,447; Sept. 13; Sp. p. 2766; Gaz. vol. 158; p. 465.
Mulholland, William, Belfast, Ireland. Magneto-ignition device for use in connection with internal-combustion engines. No. 979,328; Dec. 20; Sp. p. 4142; Gaz. vol. 161; p. 714.
Mulkey, Ben W., Vale, Oreg. Record-book. No. 971,396; Sept. 27; Sp. p. 4768; Gaz. vol. 158; p. 834.
Mullaney, John F. (See Mowry and Mullaney.)
Mullen, Andrew A. (See Mullen, Charles A., assignor.)
Mullen, Charles A., assignor of one-half to A. A. Mullen, New York, N. Y. Sand heater and drier. No. 965,214; July 26; Sp. p. 4774; Gaz. vol. 156; p. 825.
Mullen, Charles H., assignor to Crescent Feather Company, San Francisco, Cal. Foldable couch. No. 968,386; Aug. 23; Sp. p. 5431; Gaz. vol. 157; p. 936.
Mullen, Charles P. (See Snyder and Mullen.)
Mullen, Jesse E., Brownsville, Tenn. Churn-power. No. 946,615; Jan. 18; Sp. p. 3588; Gaz. vol. 150; p. 604.
Mullendore, Erd C. (See Jacobs, Olaus B., assignor.)
Müller, Adam, Millvale, Pa. Footwear. No. 970,381; Sept. 13; Sp. p. 2634; Gaz. vol. 158; p. 444.
Müller, Adelbert O., Presho, S. D. Fire-escape. No. 961,518; June 14; Sp. p. 2632; Gaz. vol. 155; p. 459.
Muller, Adolph S., and L. E. Carrico, Denver, Colo. Push-button switch. No. 958,755; May 24; Sp. p. 5076; Gaz. vol. 154; p. 858.
Muller, Albert R. (See Keating, Maurice J., assignor.)
Müller, Alfred, Domaine Ruhleben, near Spandau, Germany. Firing mechanism for firearms. No. 956,593; May 3; Sp. p. 186; Gaz. vol. 154; p. 32.
Muller, August A. (See Speidel and Muller.)
Müller, Carl A., Witzenhausen, Germany. Safety-lock. No. 973,455; Oct. 18; Sp. p. 4276; Gaz. vol. 159; p. 728.
Müller, Caroline H. (See Müller, Jacob, assignor.)
Müller, Charles, and H. Reis, New York, N. Y. Fruit-stand. No. 973,125; Oct. 18; Sp. p. 3546; Gaz. vol. 159; p. 614.
Müller, David, assignor of one-third to A. Meisels and one-third to J. Gottlieb, Krakow, Austria-Hungary. Manufacturing an improved edible fat. No. 964,674; July 19; Sp. p. 3583; Gaz. vol. 156; p. 613.
Muller, Edward, Weehawken, N. J. Vehicle-washer. No. 948,337; Feb. 8; Sp. p. 1155; Gaz. vol. 151; p. 212.
Muller-Fichter, Franz X., Thann, Alsace, Germany. Device for cleaning the water-tight blankets of cloth-printing machines. No. 965,117; July 19; Sp. p. 4575; Gaz. vol. 156; p. 763.
Muller, Friederich, Hartford, Conn., assignor to W. L. Clark, New York, N. Y. Paste-tube. No. 949,545; Feb. 15; Sp. p. 3702; Gaz. vol. 151; p. 643.
Müller, Georg, Gmünd, assignor to J. Bloch, Pforzheim, and P. Rupp, Ellwangen, Germany. Screwed connection. No. 972,211; Oct. 11; Sp. p. 1521; Gaz. vol. 159; p. 271.
Muller, George F. C., San Francisco, Cal. Keyhole-guard. No. 965,316; July 26; Sp. p. 4999; Gaz. vol. 156; p. 860.
Muller, George J. (See Glaser and Muller.)
Müller, Heinrich, Berlin, Germany, assignor to General Electric Company. Electric motor. No. 953,219; Mar. 29; Sp. p. 5676; Gaz. vol. 152; p. 1031.
Müller, Heinrich J., Schaffhausen, Switzerland. Indicator for ticket-receptacles. No. 953,751; Apr. 5; Sp. p. 139; Gaz. vol. 153; p. 27.
Müller, Isidor, Vienna, Austria-Hungary. Electrical sounding-fork vibrator. No. 947,251; Jan. 25; Sp. p. 4950; Gaz. vol. 150; p. 843.
Müller, Jacob, assignor to C. H. Müller, New York, N. Y. Barrel-washing machine. No. 951,572; Mar. 8; Sp. p. 2251; Gaz. vol. 152; p. 391.
Müller-Jacobs, Armand, Huntington, and R. C. F. A. C. Bernhardi, assignors to The Arabol Manufacturing Company, New York, N. Y. Emulsifying oils, fats, and the like. No. 975,447; Nov. 15; Sp. p. 3055; Gaz. vol. 160; p. 522.
Müller, Jean, Lachen-Vonwyl, near St. Gallen, Switzerland. Concrete-mixing machine. No. 973,543; Oct. 25; Sp. p. 4471; Gaz. vol. 159; p. 781.
Muller, Jean L. (See Bonnet and Muller.)
Muller, Jean L., Sannois, and J. Rousset, Vincennes, France. Kinematographic apparatus. No. 955,666; Apr. 19; Sp. p. 4275; Gaz. vol. 153; p. 739.
Müller, Johann C., Dresden, Germany. Apparatus for making mouthpiece-tubes. No. 977,394; Nov. 29; Sp. p. 7325; Gaz. vol. 160; p. 1239.
Müller, John P., New Rochelle, N. Y. Thermocauter. No. 946,556; Jan. 18; Sp. p. 3470; Gaz. vol. 150; p. 584.
Müller, Karl L., assignor to Firm P. Lechler, Stuttgart, Germany. Spraying-nozzle. No. 964,445; July 12; Sp. p. 3037; Gaz. vol. 156; p. 501.
Müller, Oscar, New York, N. Y., M. Willnus and C. Weishaar, Elizabeth, N. J. Snow-melting machine. No. 969,716; Sept. 6; Sp. p. 1191; Gaz. vol. 158; p. 193.
Müller, Otto A., Ambler, Pa. Wire support for plants. No. 948,671; Feb. 8; Sp. p. 1885; Gaz. vol. 151; p. 325.
Müller, Otto A., Ambler, Pa. Wire support for plants. No. 948,672; Feb. 8; Sp. p. 1886; Gaz. vol. 151; p. 325.
Müller, Otto M., Gelsenkirchen, Germany. Lamp-burner. No. 970,084; Sept. 13; Sp. p. 2028; Gaz. vol. 158; p. 344.
Müller, Otto P., New York, N. Y. Appliance for removing corns. No. 979,329; Dec. 20; Sp. p. 4144; Gaz. vol. 161; p. 714.
Muller, Peter J. B., New York, N. Y. Dish-drainer. No. 946,977; Jan. 18; Sp. p. 4411; Gaz. vol. 150; p. 725.
Muller, Walter, *et al.* (See Van Tekelenburg, John, assignor.)
Mulligan, Thomas F., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Automatic electric-pump control. No. 978,923; Dec. 20; Sp. p. 3223; Gaz. vol. 161; p. 572.
Mullins, William H., Salem, Ohio. Automobile dust-pan. No. 971,550; Oct. 4; Sp. p. 85; Gaz. vol. 159; p. 16.
Mullon, Charles. (See Wichrowski, Ignacy, assignor.)
Mulloy, Patrick J. (See Woods, Robert, assignor.)
Mulroyan, Thomas E. (See Sprague and Mulroyan.)
Multer, Vere H., Binghamton, N. Y. Collection-docket. No. 946,860; Jan. 18; Sp. p. 4150; Gaz. vol. 150; p. 686.
Multi-Seal Manufacturing Company. (See Olsson, Henry A., assignor.)
Multi Speed Shutter Company. (See Wallace, William H., assignor.)
Multoplex Filing Device Company, The. (See Eacrett, William, assignor.)
Mulvey, Peter J., Schenectady, N. Y., assignor to General Electric Company. Treated carbon and producing it. No. 949,988; Feb. 22; Sp. p. 4694; Gaz. vol. 151; p. 830.
Mumford, Edgar H., Philadelphia, Pa. Riddle. No. 979,685; Dec. 27; Sp. p. 4894; Gaz. vol. 161; p. 857.
Mumford, Samuel C. (See Happe, Arthur H., assignor.)
Mumma, A. B. (See Coover, Amos J., assignor.)
Mummelthey, Ferdinand, Coraopolis, assignor to Graham Nut Company, Pittsburg, Pa. Gas-burner. No. 970,382; Sept. 13; Sp. p. 2634; Gaz. vol. 158; p. 444.
Münch, Eduard, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Making a thio-indigo dye. No. 949,592; Feb. 15; Sp. p. 3787; Gaz. vol. 151; p. 659.
Munday, Homer J., Carterville, Mo. Wrench. No. 966,698; Aug. 9; Sp. p. 1835; Gaz. vol. 157; p. 313.
Mundhenk, Clement L. V., Dayton, Ohio. Safety-hook for side and overcheck reins. No. 945,974; Jan. 11; Sp. p. 2153; Gaz. vol. 150; p. 358.
Mungall, Thomas, Chicago, Ill. Secondary electric clock. No. 946,148; Jan. 11; Sp. p. 2496; Gaz. vol. 150; p. 417.
Mungall, Thomas, Chicago, Ill. Electrically-operated clock. No. 960,186; May 31; Sp. p. 8134; Gaz. vol. 154; p. 1368.
Munger, Carlton A., assignor to Wayne Manufacturing Company, St. Louis, Mo. Gearing. No. 974,508; Nov. 1; Sp. p. 992; Gaz. vol. 160; p. 148.
Munger, James V., Portland, N. Y., assignor to G. H. Dunham, Warren, Pa. Car-coupling. No. 948,399; Feb. 8; Sp. p. 1303; Gaz. vol. 151; p. 234.
Munger, James V., Portland, N. Y., assignor to G. H. Dunham, Warren, Pa. Car-coupling. No. 948,400; Feb. 8; Sp. p. 1307; Gaz. vol. 151; p. 235.
Munger, James V., Portland, N. Y., assignor to G. H. Dunham, Warren, Pa. Car-coupling. No. 948,458; Feb. 8; Sp. p. 1419; Gaz. vol. 151; p. 253.
Munger, James V., Portland, N. Y., assignor to G. H. Dunham, Warren, Pa. Car-coupling. No. 948,459; Feb. 8; Sp. p. 1421; Gaz. vol. 151; p. 254.
Munger, Leroy S. (See Munger, Maude M. and L. S.)
Munger, Maude M. and L. S., Oberlin, Kans. Cabinet. No. 952,573; Mar. 22; Sp. p. 4287; Gaz. vol. 152; p. 785.
Munger, Verrenice, Ansonia, Conn. File-wrapper. No. 965,397; July 26; Sp. p. 5173; Gaz. vol. 156; p. 888.
Munk, Robert W., assignor to The American Specialty Manufacturing Co., Atlanta, Ga. Inking-roller. No. 949,437; Feb. 15; Sp. p. 3490; Gaz. vol. 151; p. 610.
Munn, Albert C., Marion, Mich. Rail-joint clamp. No. 951,694; Mar. 8; Sp. p. 2485; Gaz. vol. 152; p. 431.
Munn, Edward A., and O. L. Plumtree, Chicago, Ill.; said Plumtree assignor to said Munn. Grain-chute. No. 945,975; Jan. 11; Sp. p. 2154; Gaz. vol. 150; p. 358.
Munn, John F., assignor to The Cyclone Drill Company, Orrville, Ohio. Drill-head. No. 947,394; Jan. 25; Sp. p. 5313; Gaz. vol. 150; p. 893.
Munn, Neil D., Dresden, Ontario, Canada. Nut-lock. No. 973,544; Oct. 25; Sp. p. 4473; Gaz. vol. 159; p. 781.
Munoz, Signono C., Montclair, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 962,454; June 28; Sp. p. 4672; Gaz. vol. 155; p. 825.
Munro, Harriet B., Bristol, R. I. Game apparatus. No. 979,392; Dec. 20; Sp. p. 4260; Gaz. vol. 161; p. 733.
Munro, James H., assignor of one-half to J. M. Van Orden, Newark, N. J. Covering for roofs and the like. No. 967,542; Aug. 16; Sp. p. 3645; Gaz. vol. 157; p. 626.
Munshaw, William H., Seattle, Wash. Projecting device. No. 948,565; Feb. 8; Sp. p. 1660; Gaz. vol. 151; p. 289.
Munsing, George D., Newark, N. J. Wheel mount and axle. No. 966,577; Aug. 9; Sp. p. 1604; Gaz. vol. 157; p. 273.
Munsinger, Hiram S. and J. K., Howard, Kans. Gate-fastener. No. 970,345; Sept. 13; Sp. p. 2559; Gaz. vol. 158; p. 432.
Munsinger, Joseph K. (See Munsinger, Hiram S. and J. K.)

Munson, Clair, and J. Jackson, Clinton, Iowa; said Jackson assignor to said Munson. Chair-seat. No. 975,632; Nov. 15; Sp. p. 3451; Gaz. vol. 160; p. 586.
Munson, Corydon W., Toledo, Ohio, assignor, by mesne assignments, to M. O. Munson. Continuous-twyer furnace. No. 972,126; Oct. 4; Sp. p. 1326; Gaz. vol. 159; p. 223.
Munson, John B., Phillipsburg, N. J. Sad-iron. No. 964,043; July 12; Sp. p. 2239; Gaz. vol. 156; p. 369.
Munson, Martin C. (See Svenson, Sven, assignor.)
Munson, Mary O. (See Munson, Corydon W., assignor.)
Munson, Melvin. (See Pagnard, Munson, and Glauser.)
Munson, Richard O. (See Fairman and Munson.)
Munster, Frederick, Millville, N. J. Rudder for boats and ships. No. 952,462; Mar. 22; Sp. p. 4035; Gaz. vol. 152; p. 747.
Munzer, William F. (See Stanton, D'Arsi, and Munzer.)
Munzinger, Louis. (See Hart, Thomas M., assignor.)
Muralt, Robert R. L. de, Zierikzee, Netherlands. Revetment for the protection of slopes, embankments, walls of canals, &c. No. 953,051; Mar. 29; Sp. p. 5296; Gaz. vol. 152; p. 976.
Murch, John H., Jr. (See Gamble, Henry A., assignor.)
Murdoch, James J., assignor to Dwight Lumber Company, Detroit, Mich. Burnishing-machine. No. 975,886; Nov. 15; Sp. p. 3983; Gaz. vol. 160; p. 675.
Murdock, Henry C., Clapper, Mo. Wagon-brake. No. 956,134; Apr. 26; Sp. p. 5302; Gaz. vol. 153; p. 932.
Murdock, Remus C., Oxford, Nebr. Rein-holder. No. 963,622; July 5; Sp. p. 1324; Gaz. vol. 156; p. 204.
Murex Syndicate, The. (See Lockwood and Samuels, assignors.)
Murgas, Joseph. (See Kozar, Ladislaw O., assignor.)
Murk, Charles G., Chicago, Ill. Shoulder-protector. No. 978,620; Dec. 13; Sp. p. 2617; Gaz. vol. 161; p. 446.
Murnane, Daniel J., St. Louis, Mo. Ventilated window-frame. No. 967,955; Aug. 23; Sp. p. 4477; Gaz. vol. 157; p. 788.
Murnane, Daniel J., St. Louis, Mo. Show-window or store-front. No. 975,150; Nov. 8; Sp. p. 2425; Gaz. vol. 160; p. 394.
Murphey, Frank P., Decatur, Ill. Clutch mechanism. No. 946,702; Jan. 18; Sp. p. 3769; Gaz. vol. 150; p. 631.
Murphey, Frank P., Decatur, Ill. Clutch mechanism. No. 954,123; Apr. 5; Sp. p. 883; Gaz. vol. 153; p. 153.
Murphey, Frank P., Decatur, Ill. Differential dropping mechanism. No. 960,187; May 31; Sp. p. 8136; Gaz. vol. 154; p. 1369.
Murphey, Henry N., East Oakland, Cal. Pump. No. 952,340; Mar. 15; Sp. p. 3791; Gaz. vol. 152; p. 678.
Murphree, William B., *et al.* (See Easley, Robert A., assignor).
Murphy, Arthur, assignor to Frank and Dugan, Paterson, N. J. Warping-machine. No. 970,085; Sept. 13; Sp. p. 2029; Gaz. vol. 158; p. 345.
Murphy, Arthur L., Sr., Independence, Mo. Loose-leaf book. No. 960,672; June 7; Sp. p. 885; Gaz. vol. 155; p. 146.
Murphy, Arthur L., Sr., Independence, Mo. Loose-leaf book. No. 960,673; June 7; Sp. p. 886; Gaz. vol. 155; p. 146.
Murphy, Arthur L., Sr., Independence, Mo. Loose-leaf binder. No. 960,674; June 7; Sp. p. 888; Gaz. vol. 155; p. 147.
Murphy, Barney, Milford, Conn. Combined door check and spring. No. 979,190; Dec. 20; Sp. p. 3859; Gaz. vol. 161; p. 668.
Murphy, Barney, assignor of one-half to P. N. Landine, New Haven, Conn. Fender for street-railway cars. No. 954,874; Apr. 12; Sp. p. 2589; Gaz. vol. 153; p. 441.
Murphy Beet Topper Company, The. (See Murphy, Roy E., assignor.)
Murphy, Charles A., Baltimore, Md. Lever. No. 976,901; Nov. 29; Sp. p. 6203; Gaz. vol. 160; p. 1068.
Murphy, Daniel H. (See Williams, Lynn A., assignor.)
Murphy, Daniel H., New Castle, Pa. Apparatus for electroplating pipes, &c. No. 962,655; June 28; Sp. p. 5106; Gaz. vol. 155; p. 893.
Murphy, Daniel H., New Castle, Pa. Means for scouring pipe. No. 969,179; Sept. 6; Sp. p. 76; Gaz. vol. 158; p. 13.
Murphy, Daniel W. (See McGrath, Redmond J., assignor.)
Murphy Did It Company. (See Peterson, Nels, assignor.)
Murphy, Edward E., Winchester, Mass. Liquid measuring and dispensing apparatus. No. 968,491; Aug. 23; Sp. p. 5643; Gaz. vol. 157; p. 972.
Murphy, Edward E., Winchester, Mass., assignor to Puffer Manufacturing Company. Dispensing-faucet. No. 960,675; June 7; Sp. p. 890; Gaz. vol. 155; p. 147.
Murphy, Francies A., *et al.* (See Crump, Robert B., assignor.)
Murphy, George N., Paducah, Ky. Surgical instrument. No. 977,825; Dec. 6; Sp. p. 884; Gaz. vol. 161; p. 139.
Murphy, Hamilton, Jerusalem, Ohio. Grate-furnace. No. 951,020; Mar. 1; Sp. p. 1143; Gaz. vol. 152; p. 186.
Murphy Iron Works. (See Fortune and Wells, assignors.)
Murphy Iron Works. (See Haigh and Fortune, assignors.)
Murphy Iron Works. (See Wells and Fortune, assignors.)
Murphy, James, assignor to E. C. Smith, Greeley, Colo. Railway-rail and joint therefor. No. 957,789; May 10; Sp. p. 2740; Gaz. vol. 154; p. 469.
Murphy, James A. (See Amick, Henry J., assignor.)
Murphy, James A. (See Conboy and Murphy.)
Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Roll-top-desk lock. No. 962,377; June 21; Sp. p. 4478; Gaz. vol. 155; p. 772.
Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Multiple-key lock. No. 974,693; Nov. 1; Sp. p. 1392; Gaz. vol. 160; p. 216.
Murphy, John C., Chelsea, Mass., assignor to The Carbonating Company of America, New York, N. Y. Carbonating apparatus. No. 977,467; Dec. 6; Sp. p. 82; Gaz. vol. 161; p. 16.
Murphy, John F., Jackson, Mich. Speed regulator and timer for explosive-engines. No. 955,667; Apr. 19; Sp. p. 4277; Gaz. vol. 153; p. 739.
Murphy, John L., Covington, Va. Type-writer attachment. No. 960,997; June 7; Sp. p. 1529; Gaz. vol. 155; p. 256.
Murphy, John P., Hannibal, Mo. Hot-water-radiator valve. No. 955,979; Apr. 26; Sp. p. 4964; Gaz. vol. 153; p. 877.
Murphy, Michael, Grand Marais, Minn. Cattle-stanchion. No. 947,668; Jan. 25; Sp. p. 5929; Gaz. vol. 150; p. 985.
Murphy, Michael T., and C. Gess, St. Joseph, Mich. Reinforced knit goods and making same. No. 952,709; Mar. 22; Sp. p. 4593; Gaz. vol. 152; p. 833.
Murphy, Peter H. (See Hoffman, John J., assignor.)
Murphy, Peter H. (See Murphy, Walter P., assignor.)
Murphy, Peter H., Pittsburg, Pa. Car-roof. No. 950,947; Mar. 1; Sp. p. 1016; Gaz. vol. 152; p. 163.
Murphy, Peter H., Pittsburg, Pa. Outside metal car-roof. No. 968,183; Aug. 23; Sp. p. 5021; Gaz. vol. 157; p. 865.
Murphy, Peter H., Pittsburg, Pa. Car-roof. No. 969,972; Sept. 13; Sp. p. 1796; Gaz. vol. 158; p. 305.
Murphy, Roy E., Colorado Springs, assignor of one-half to M. O. Crose, Montrose, Colo. Post-binder. No. 957,895; May 17; Sp. p. 2960; Gaz. vol. 154; p. 535.
Murphy, Roy E., Colorado Springs, Colo., assignor to The Murphy Beet Topper Company. Beet-topping attachment for mowing-machines. No. 957,896; May 17; Sp. p. 2962; Gaz. vol 154; p. 535.
Murphy, Sherman P., and D. H. Seale, Berlin, Okla. Screen for threshing-machines. No. 966,578; Aug. 9; Sp. p. 1606; Gaz. vol. 157; p. 273.
Murphy, Thomas, *et al.* (See Gossett, William, assignor.)
Murphy, Walter P., *et al.* (See Acker, Julius J., assignor.)
Murphy, Walter P. (See Hannon, James J., assignor.)
Murphy, Walter P., Chicago, Ill. Car-roof. No. 951,094; Mar. 1; Sp. p. 1279; Gaz. vol. 152; p. 209.
Murphy, Walter P., St. Louis, Mo. Uncoupling-lever. No. 951,541; Mar. 8; Sp. p. 2191; Gaz. vol. 152; p. 381.
Murphy, Walter P., St. Louis, Mo. Uncoupling-lever. No. 962,912; June 28; Sp. p. 5615; Gaz. vol. 155; p. 983.
Murphy, Walter P., assignor to P. H. Murphy, St. Louis, Mo. Car-roof. No. 946,823; Jan. 18; Sp. p. 4056; Gaz. vol. 150; p. 673.
Murphy, William, Moab, Utah. Garment support and lock. No. 979,990; Dec. 27; Sp. p. 5549; Gaz. vol. 161; p. 959.
Murphy, William A. C., Springfield, Mo. Steam-cooker. No. 970,638; Sept. 20; Sp. p. 3215; Gaz. vol. 158; p. 553.
Murphy, William H., Albert Lea, Minn. Box-fastener. No. 970,639; Sept. 20; Sp. p. 3216; Gaz. vol. 158; p. 553.
Murphy, William J., Perry, Okla. Nut-lock. No. 971,775; Oct. 4; Sp. p. 554; Gaz. vol. 159; p. 97.
Murphy, William J., and A. E. Culley, Butte, Mont. Converter. No. 972,564; Oct. 11; Sp. p. 2290; Gaz. vol. 159; p. 395.
Murphy, William J., and A. E. Culley, Butte, Mont. Furnace. No. 978,621; Dec. 13; Sp. p. 2618; Gaz. vol. 161; p. 446.
Murphy, William L., Dorchester, Mass. Compass. No. 957,238; May 10; Sp. p. 1601; Gaz. vol. 154; p. 282.
Murphy, William R., Chicago, Ill. Sled-propeller. No. 971,302; Sept. 27; Sp. p. 4585; Gaz. vol. 158; p. 803.
Murray, Albert L., Grand Rapids, Mich. Reinforcement for pneumatic tires. No. 946,557; Jan. 18; Sp. p. 3472; Gaz. vol. 150; p. 584.
Murray, Albert L., Grand Rapids, Mich., assignor of one-half to Shawmut Tire Company. Reinforcement for pneumatic tires. No. 964,446; July 12; Sp. p. 3037; Gaz. vol. 156; p. 501.
Murray, Archie R., Johnstown, Pa., assignor to The Lorain Steel Company. Spring-switch. No. 946,391; Jan. 11; Sp. p. 3120; Gaz. vol. 150; p. 502.
Murray, Aristides R. (See Chace and Murray.)
Murray, Aristides R., Cincinnati, Ohio, assignor of one-half to C. F. Pease, Chicago, Ill. Blue-print machine. No. 949,084; Feb. 15; Sp. p. 2749; Gaz. vol. 151; p. 488.
Murray, Aristides R., assignor to The Cincinnati Shaper Company, Cincinnati, Ohio. Traverse head-shaping machine. No. 950,783; Mar. 1; Sp. p. 694; Gaz. vol. 152; p. 111.
Murray, Aristides R., assignor to The Cincinnati Shaper Company, Cincinnati, Ohio. Reversing mechanism. No. 975,982; Nov. 15; Sp. p. 4163; Gaz. vol. 160; p. 704.
Murray, Charles. (See Hagan, Alexander J., assignor.)

Alphabetical list of patentees—Continued.

Murray, Charles F., Detroit, Mich. Reinforcement for pneumatic tires and forming same. No. 949,156; Feb. 15; Sp. p. 2898; Gaz. vol. 151; p. 513.
Murray, Charles F., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Knuckle-pin retainer. No. 974,509; Nov. 1; Sp. p. 998; Gaz. vol. 160; p. 148.
Murray, Charles F., assignor of one-third to W. V. Kelley, one-third to R. P. Lamont, Chicago, Ill., and one-third to W. W. Butler, New York, N. Y. Means for tightening railway-car sides. No. 967,220; Aug. 16; Sp. p. 2979; Gaz. vol. 157; p. 516.
Murray, Charles F., assignor of one-third to W. V. Kelley, one-third to R. P. Lamont, Chicago, Ill., and one-third to W. W. Butler, New York, N. Y. Tightening means for car sides. No. 967,412; Aug. 16; Sp. p. 3385; Gaz. vol. 157; p. 583.
Murray, Charles P., Cedar Rapids, Iowa. Concrete cattle-guard. No. 949,941; Feb. 22; Sp. p. 4555; Gaz. vol. 151; p. 813.
Murray, Daniel D., assignor of one-eighth to N. S. Stalker, Duluth, Minn. Tire-protector. No. 968,184; Aug. 23; Sp. p. 5023; Gaz. vol. 157; p. 866.
Murray, Frederick S. (See Fulgora and Murray.)
Murray, George W., Chicago, Ill. Hoisting mechanism. No. 962,779; June 28; Sp. p. 5364; Gaz. vol. 155; p. 937.
Murray, Henry D. (See Schrag, Andrew, assignor.)
Murray and Jacobs Manufacturing Company. (See Jacobs, Charles B., assignor.)
Murray, James. (See Kaufman, Ludwig, assignor.)
Murray, Jay E. (See Hausdorfer and Murray.)
Murray, John A. (See Retisky, Venceslav, assignor.)
Murray, John A., Iowa City, Iowa. Copy-holder. No. 966,941; Aug. 9; Sp. p. 2394; Gaz. vol. 157; p. 393.
Murray, John B., Adrian, assignor to J. E. Myers, Carey, Ohio. Burial-vault. No. 950,112; Feb. 22; Sp. p. 4954; Gaz. vol. 151; p. 872.
Murray, John F., New York, N. Y. Base-ball-game apparatus. No. 951,486; Mar. 8; Sp. p. 2092; Gaz. vol. 152; p. 362.
Murray, Maurice H., Bakersfield, Cal. Pole-base. No. 951,142; Mar. 8; Sp. p. 1376; Gaz. vol. 152; p. 250.
Murray, Michael P., Cresson, Pa. Railway-rail. No. 975,271; Nov. 8; Sp. p. 2693; Gaz. vol. 160; p. 435.
Murray, Samuel W., Milton, Pa. Grain-door for box-cars. No. 966,348; Aug. 2; Sp. p. 1046; Gaz. vol. 157; p. 168.
Murray, Samuel W., Milton, Pa. Car-door. No. 967,814; Aug. 16; Sp. p. 4184; Gaz. vol. 157; p. 717.
Murray Show Case and Fixture Company. (See Stockwell, Millard E., assignor.)
Murray, Stanley G., Passaic, N. J., assignor to Richardson Scale Company, New York, N. Y. Compensator for weighing-machines. No. 963,623; July 5; Sp. p. 1325; Gaz. vol. 156; p. 205.
Murray, Thomas, Waterloo, Wis. Folding poultry-crate. No. 963,798; July 12; Sp. p. 1719; Gaz. vol. 156; p. 286.
Murray, Thomas E., New York, N. Y. Seal-fastening. No. 945,854; Jan. 11; Sp. p. 1900; Gaz. vol. 150; p. 315.
Murray, Thomas E., New York, N. Y. Seal-fastening. No. 945,855; Jan. 11; Sp. p. 1901; Gaz. vol. 150; p. 315.
Murray, Thomas E., New York, N. Y. Junction-box. No. 945,856; Jan. 11; Sp. p. 1902; Gaz. vol. 150; p. 316.
Murray, Thomas E., New York, N. Y. Connecting device for circuit-wire-covering pipes. No. 949,243; Feb. 15; Sp. p. 3060; Gaz. vol. 151; p. 541.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 949,283; Feb. 15; Sp. p. 3147; Gaz. vol. 151; p. 555.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 951,446; Mar. 8; Sp. p. 1999; Gaz. vol. 152; p. 348.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 956,135; Apr. 26; Sp. p. 5302; Gaz. vol. 153; p. 932.
Murray, Thomas E., New York, N. Y. Switch-block. No. 956,136; Apr. 26; Sp. p. 5305; Gaz. vol. 153; p. 937.
Murray, Thomas E., New York, N. Y. Electric safety-fuse. No. 956,498; Apr. 26; Sp. p. 6104; Gaz. vol. 153; p. 1056.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 961,308; June 14; Sp. p. 2180; Gaz. vol. 155; p. 390.
Murray, Thomas E., New York, N. Y. Service cut-out and metering apparatus. No. 962,455; June 28; Sp. p. 4674; Gaz. vol. 155; p. 825.
Murray, Thomas E., New York, N. Y. Base-ball-game apparatus. No. 970,086; Sept. 13; Sp. p. 2032; Gaz. vol. 158; p. 345.
Murray, Thomas E., New York, N. Y. Binding device for circuit-conductors. No. 970,087; Sept. 13; Sp. p. 2035; Gaz. vol. 158; p. 345.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 970,088; Sept. 13; Sp. p. 2036; Gaz. vol. 158; p. 346.
Murray, Thomas E., New York, N. Y. Binding-post. No. 970,089; Sept. 13; Sp. p. 2039; Gaz. vol. 158; p. 346.
Murray, Thomas E., New York, N. Y. Shield for circuit-conductors. No. 979,544; Dec. 27; Sp. p. 4585; Gaz. vol. 161; p. 808.
Murray, Walter. (See Fulgora and Murray.)
Murray, Warren E., San Francisco, Cal. Apparatus for covering filled sacks. No. 945,572; Jan. 4; Sp. p. 1222; Gaz. vol. 150; p. 189.
Murray, William, Philadelphia, Pa. Jar-cover-removing device. No. 972,774; Oct. 11; Sp. p. 2738; Gaz. vol. 159; p. 466.
Murray, William D. (See Blackburn and Michal, assignors.)
Murrey, Ed, Kansas City, Mo. Clam-shell bucket. No. 956,137; Apr. 26; Sp. p. 5306; Gaz. vol. 153; p. 933.
Murrin, John J., Pine Camp, N. Y. Gem-setting. No. 949,657; Feb. 15; Sp. p. 3907; Gaz. vol. 151; p. 681.
Murrin, Philip D. (See Hixon and Murrin.)
Murry, William, Auburn, Me. Artificial bait. No. 962,237; June 21; Sp. p. 4179; Gaz. vol. 155; p. 726.
Murtaugh, Edward G., Greenwood, S. D. Wheel. No. 954,124; Apr. 5; Sp. p. 885; Gaz. vol. 153; p. 154.
Muschenheim, Frederick, New York, N. Y. Illuminated flower-holder. No. 963,057; July 5; Sp. p. 58; Gaz. vol. 156; p. 12.
Muser, Fritz. (See Burby, John M., assignor.)
Musgrove, Arthur S., Pittsfield, Mass., assignor to Scott & Williams, Incorporated, Philadelphia, Pa. Knitted fabric. No. 978,622; Dec. 13; Sp. p. 2621; Gaz. vol. 161; p. 447.
Musgrove, Robert G., Greenwood, Miss. Rail-joint. No. 954,684; Apr. 12; Sp. p. 2122; Gaz. vol. 153; p. 372.
Musk, Albert, Rochester, N. Y. Holder for spools. No. 971,209; Sept. 27; Sp. p. 4415; Gaz. vol. 158; p. 774.
Muskegon Motor Specialties Company. (See Johnson, Charles E., assignor.)
Mussell, Jacob, Caldwell, Idaho. Conveyer mechanism. No. 951,738; Mar. 8; Sp. p. 2579; Gaz. vol. 152; p. 446.
Mussell, Jacob, Caldwell, Idaho. Conveyer mechanism. No. 975,565; Nov. 15; Sp. p. 3321; Gaz. vol. 160; p. 564.
Musselman, Pearl, Billings, Mont. Bath-tub. No. 962,970; June 28; Sp. p. 5715; Gaz. vol. 155; p. 1002.
Musser, Charles K. (See Brinser, Eli H. G., assignor.)
Musser, Ora C., assignor of nine-sixteenths to L. L. Lewis, Oil City, Pa. Burner. No. 954,125; Apr. 5; Sp. p. 887; Gaz. vol. 153; p. 154.
Mussey, William H., Richmond Hill, N. Y. Tube for dissolving soda-ash. No. 961,789; June 21; Sp. p. 3199; Gaz. vol. 155; p. 574.
Mustad, Hans C. H., Duclair, France. Explosive-engine. No. 974,809; Nov. 8; Sp. p. 1652; Gaz. vol. 160; p. 277.
Mustel, Alphonse L., assignor to Société Mustel et Cie., Paris, France. Tracker for automatic musical instruments or orchestrions. No. 971,465; Sept. 27; Sp. p. 4887; Gaz. vol. 158; p. 856.
Mustin, Herbert S., assignor to Austin Manufacturing Company, Chicago, Ill. Steering device. No. 956,718; May 3; Sp. p. 470; Gaz. vol. 154; p. 75.
Mustin, Herbert S., assignor to Austin Manufacturing Company, Chicago, Ill. Motor lawn-mower. No. 969,797; Sept. 13; Sp. p. 1398; Gaz. vol. 158; p. 245.
Muth, John. (See Jessup and Muth.)
Muth, John, and C. F. Heinkel, Cleveland, Ohio. Wireless transmitting system. No. 953,635; Mar. 29; Sp. p. 6575; Gaz. vol. 152; p. 1174.
Muthart, Lewis P. (See Stevenson, George W., assignor.)
Muther, Lorenz. (See Lautenschlager, William F., assignor.)
Muther, Lorenz, Boston, Mass. Rotary trimming-machine. No. 954,578; Apr. 12; Sp. p. 1877; Gaz. vol. 153; p. 335.
Muther, Lorenz, Denver, Colo., and G. A. Henderson, Marblehead, assignors to The Peerless Machinery Company, Boston, Mass. Shaft for leather-skiving machines. No. 958,155; May 17; Sp. p. 3722; Gaz. vol. 154; p. 629.
Mutschler, Albert and H. G., Rochester, N. Y. Sheet-folding machine. No. 966,760; Aug. 9; Sp. p. 2020; Gaz. vol. 157; p. 336.
Mutschler, Henry G. (See Mutschler, Albert and H. G.)
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 975,061; Nov. 8; Sp. p. 2230; Gaz. vol. 160; p. 363.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 977,532; Dec. 6; Sp. p. 270; Gaz. vol. 161; p. 39.
Myer, Adam, Cleveland, Ohio. Horseshoe. No. 952,208; Mar. 15; Sp. p. 3519; Gaz. vol. 152; p. 633.
Myer, Clayton P., Houston, Tex. Cylinder-mounting for carriage-feeds. No. 975,784; Nov. 15; Sp. p. 3781; Gaz. vol. 160; p. 637.
Myer, Francis C., Decatur, Ill. Support and brace for ladder-rungs and the like. No. 949,194; Feb. 15; Sp. p. 2968; Gaz. vol. 151; p. 525.
Myer, James W., San Francisco, Cal. Pump driving-gear. No. 974,694; Nov. 1; Sp. p. 1398; Gaz. vol. 160; p. 217.
Myer, James W., San Francisco, Cal. Quartz-mill. No. 975,369; Nov. 8; Sp. p. 2894; Gaz. vol. 160; p. 468.
Myer, Johannes J. M. (See Scott, George E., assignor.)
Myers, Albert W., Granite City, Ill. Trap. No. 953,636; Mar. 29; Sp. p. 6577; Gaz. vol. 152; p. 1174.
Myers, Anthony. (See Hurst and Myers.)
Myers and Brother, F. E. (See Myers, Philip A., assignor.)
Myers and Brother, F. E. (See Myers and Toulmin, assignors.)
Myers, Charles H., Buffalo, N. Y. Thermometer-dial. No. 955,091; Apr. 12; Sp. p. 3012; Gaz. vol. 153; p. 511.
Myers, Charles H., Buffalo, N. Y. X-ray screen or shield. No. 965,533; July 26; Sp. p. 5491; Gaz. vol. 156; p. 935.
Myers, Charles H., Buffalo, N. Y. Display-cover. No. 970,732; Sept. 20; Sp. p. 3407; Gaz. vol. 158; p. 585.

Myers, Charles H., Le Roy, Ill. Disk marker. (Reissue.) No. 13,102; Apr. 19; Sp. p. 4642; Gaz. vol. 153; p. 800.
Myers, Charles S., Columbia, Pa. Tire-pump. No. 961,153; June 14; Sp. p. 1840; Gaz. vol. 155; p. 333.
Myers, Clarence A., Camden, N. J. Stamping and punching machine. No. 974,695; Nov. 1; Sp. p. 1399; Gaz. vol. 160; p. 217.
Myers, Clarence H., Denver, Colo. Bicycle-lock. No. 977,533; Dec. 6; Sp. p. 272; Gaz. vol. 161; p. 39.
Myers, Curt, Springport, Mich. Oven for cooking-stoves. No. 955,668; Apr. 19; Sp. p. 4280; Gaz. vol. 153; p. 740.
Myers, Edgar J., Prairie du Sac, Wis. Gate. No. 963,624; July 5; Sp. p. 1327; Gaz. vol. 156; p. 205.
Myers, Elmer E. (See Donaldson, Charles, assignor.)
Myers, George E. (See Myers, George W. and G. E.)
Myers, George M., Toronto, Ohio. Tile-making machine. No. 975,062; Nov. 8; Sp. p. 2233; Gaz. vol. 160; p. 364.
Myers, George W. and G. E., Cheshire, Conn. Combination article of furniture. No. 948,480; Feb. 8; Sp. p. 1470; Gaz. vol. 151; p. 261.
Myers, George W., and H. Dill, Duquesne, Pa. Soaking-pit for manufacture of steel. No. 948,932; Feb. 8; Sp. p. 2412; Gaz. vol. 151; p. 411.
Myers, Henry R., New York, N. Y. Container for bottles or receptacles. No. 961,885; June 21; Sp. p. 3431; Gaz. vol. 155; p. 606.
Myers, Hubert A., Goshen, Ind. Swing. No. 946,558; Jan. 18; Sp. p. 3473; Gaz. vol. 150; p. 584.
Myers, Jacob H., Cleveland, Ohio. Window-locking device. No. 979,025; Dec. 20; Sp. p. 3471; Gaz. vol. 161; p. 609.
Myers, Jacob H., assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 972,565; Oct. 11; Sp. p. 2292; Gaz. vol. 159; p. 395.
Myers, James H., Troy, N. Y. Coffee-percolator. No. 961,886; June 21; Sp. p. 3432; Gaz. vol. 155; p. 606.
Myers, James W., Robinson, Ill., assignor to Myers Motor Co. Current-motor. No. 949,747; Feb. 15; Sp. p. 4098; Gaz. vol. 151; p. 710.
Myers, John W., Quincy, Ill. Heat-accumulator for fireless cookers. No. 966,579; Aug. 9; Sp. p. 1607; Gaz. vol. 157; p. 274.
Myers, Joseph E. (See Murray, John B., assignor.)
Myers, Josiah, Anamosa, Iowa. Mop-ringer. No. 946,765; Jan. 18; Sp. p. 3914; Gaz. vol. 150; p. 652.
Myers, Leopold, Birmingham, England. Key-ring. No. 969,180; Sept. 6; Sp. p. 81; Gaz. vol. 158; p. 13.
Myers, Lewis, Newark, Mich. Burglar-alarm. No. 971,776; Oct. 4; Sp. p. 554; Gaz. vol. 159; p. 97.
Myers, Lewis C., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 946,254; Jan. 11; Sp. p. 2739; Gaz. vol. 150; p. 455.
Myers, Lewis C., Brooklyn, assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 947,450; Jan. 25; Sp. p. 5445; Gaz. vol. 150; p. 911.
Myers, Mark C., Reno, Nev. Cart. No. 963,720; July 5; Sp. p. 1518; Gaz. vol. 156; p. 236.
Myers Motor Co. (See Myers, James W., assignor.)
Myers, Nathaniel H. (See Smith, Alphonso D., assignor.)
Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Pump. No. 949,940; Feb. 22; Sp. p. 4553; Gaz. vol. 151; p. 813.
Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Windmill connector for pumps. No. 958,886; May 24; Sp. p. 5397; Gaz. vol. 154; p. 905.
Myers, Philip A., Ashland, and H. A. Toulmin, Springfield, assignors to F. E. Myers and Brother, Ashland, Ohio. Pump. No. 956,990; May 3; Sp. p. 1067; Gaz. vol. 154; p. 167.
Myers, Samuel F., Los Angeles, Cal. Metal door. No. 959,782; May 31; Sp. p. 7237; Gaz. vol. 154; p. 1229.
Myers, William M., Kansas City, Mo. Automatic pumping-machine. No. 963,058; July 5; Sp. p. 59; Gaz. vol. 156; p. 12.
Myers, William M. R., Greensburg, Pa. Horseshoe. No. 963,625; July 5; Sp. p. 1328; Gaz. vol. 156; p. 205.
Myers, William S., and T. Alexander, Ashland, Ky. Guard door-key. No. 958,667; May 17; Sp. p. 4886; Gaz. vol. 154; p. 802.
Mygatt, Otis A., New York, N. Y. Composite reflector for light-rays. No. 957,703; May 10; Sp. p. 2552; Gaz. vol. 154; p. 441.
Mygatt, Otis A., New York, N. Y. Glassware. No. 967,029; Aug. 9; Sp. p. 2586; Gaz. vol. 157; p. 425.
Mygatt, Otis A., New York, N. Y. Glassware. No. 976,681; Nov. 22; Sp. p. 5717; Gaz. vol. 160; p. 968.
Myles, David, Dundee, Scotland. Golf-club. No. 956,594; May 3; Sp. p. 188; Gaz. vol. 154; p. 32.
Myles, Leon. (See Tompkins, Caroline B., assignor.)
Myrick, Clifford C., Globe, Ariz. Fuse attachment. No. 968,185; Aug. 23; Sp. p. 5024; Gaz. vol. 157; p. 866.
N. Barstow Company. (See Barstow, Nathaniel, assignor.)
N. O. Nelson Manufacturing Company. (See Bonroe, Theodore, assignor.)
N. R. Capsule Syndicate. (See Heffernan and Braun, assignors.)
N. R. Capsule Syndicate Limited. (See Blew-Jones, Lawrence, assignor.)
N. Y. Dimension Supply Co. (See Kramer and Brown, assignors.)
Naber, Moses H., Chicago, Ill. Springwork. No. 969,390; Sept. 6; Sp. p. 511; Gaz. vol. 158; p. 81.
Nabhan, Elias H., Lawrence, Mass. Picker-stick. No. 971,625; Oct. 4; Sp. p. 249; Gaz. vol. 159; p. 44.
Nablefeld, Henry, Monico, assignor of one-half to J. Henry, Rhinelander, Wis. Railway-rail joint. No. 951,690; Mar. 8; Sp. p. 2480; Gaz. vol. 152; p. 430.
Nace, John E., Hanover, Pa. Winding device for laces. No. 965,648; July 26; Sp. p. 5741; Gaz. vol. 156; p. 976.
Nacey, Henry J. (See Nacey, John T., assignor.)
Nacey, John T., assignor of one-half to H. J. Nacey, Superior, Wis. Hacksaw. No. 972,085; Oct. 4; Sp. p. 1243; Gaz. vol. 159; p. 210.
Nachod, Carl P., Philadelphia, Pa. Signaling system. No. 979,081; Dec. 20; Sp. p. 3592; Gaz. vol. 161; p. 626.
Nachtigall, Wilhelm, Leipzig, Germany. Double-seat valve. No. 967,820; Aug. 16; Sp. p. 4198; Gaz. vol. 157; p. 719.
Nack, Anthony W., Fort Wayne, Ind. Wrapper or receptacle. No. 963,313; July 5; Sp. p. 700; Gaz. vol. 156; p. 100.
Nader, Joseph, Waukesha, Wis. Bottle-filling machine. No. 963,801; July 12; Sp. p. 1724; Gaz. vol. 156; p. 287.
Nader, Joseph, Waukesha, Wis. Bottle-washing machine. No. 978,623; Dec. 13; Sp. p. 2622; Gaz. vol. 161; p. 447.
Naëder, Jules, Seine-et-Oise, France. Packing gland or collar. No. 968,390; Aug. 23; Sp. p. 5437; Gaz. vol. 157; p. 938.
Naegelen, Charles. (See Schmidt and Naegelen.)
Nagel, William G. (See Wiesinger, Richard, assignor.)
Nagel, William G., Toledo, Ohio. Circuit-breaker for electrically-heated devices. No. 948,704; Feb. 8; Sp. p. 1960; Gaz. vol. 151; p. 336.
Nagle, Augustus F. (See Brown, Walter S., assignor.)
Nagle, Peter J., Rochester, N. Y. Egg-carrier. No. 961,889; June 21; Sp. p. 3436; Gaz. vol. 155; p. 607.
Nagle, William B., New York, N. Y. Manifolding device. No. 970,735; Sept. 20; Sp. p. 3419; Gaz. vol. 158; p. 586.
Nagy, David, New York, N. Y. Pen and penholder. No. 959,670; Apr. 19; Sp. p. 4282; Gaz. vol. 153; p. 740.
Nagy, Stiven. (See Fülöp and Nagy.)
Nahemow, Louis, New York, N. Y. Safety-razor. No. 952,837; Mar. 22; Sp. p. 4872; Gaz. vol. 152; p. 877.
Nahm, Edward J. and W. L., St. Louis, Mo. Oil-cup closure. No. 957,994; May 17; Sp. p. 3249; Gaz. vol. 154; p. 571.
Nahm, Harry, St. Louis, Mo. Billiard-cue powderer. No. 960,574; June 7; Sp. p. 690; Gaz. vol. 155; p. 113.
Nahm, Warren L. (See Nahm, Edward J. and W. L.)
Nainteau, John B., and E. C. Rich, Central Falls, R. I. Centering device for spindles. No. 952,931; Mar. 22; Sp. p. 5054; Gaz. vol. 152; p. 908.
Nakahara, Toich, New York, N. Y. Electric door-operator. No. 957,572; May 10; Sp. p. 2286; Gaz. vol. 154; p. 396.
Nakashjian, Stephen T., Worcester, Mass. Eaves-trough hanger. No. 948,901; Feb. 8; Sp. p. 2364; Gaz. vol. 151; p. 402.
Nall, James N., Hornbeck, La. Automatic churn. No. 960,680; June 7; Sp. p. 897; Gaz. vol. 155; p. 149.
Nall, James N., Hornbeck, La. Churn. No. 971,466; Sept. 27; Sp. p. 4889; Gaz. vol. 158; p. 856.
Nance, William D. (See Schaefer and Nance.)
Nantz, John H., Hartford, Ala. Compound tool. No. 948,240; Feb. 1; Sp. p. 940; Gaz. vol. 151; p. 155.
Napier, Archibald S., assignor to Brown & Bigelow, St. Paul, Minn. Match-box holder. No. 967,545; Aug. 16; Sp. p. 3652; Gaz. vol. 157; p. 628.
Napier, Montague S., *et al.* (See Cannon, Percival C., assignor.)
Napier, Richard M. (See Cowan, Edward, assignor.)
Naquin, Joseph A. (See Pledger, Junius L., assignor.)
Narahara, Kichizo, Alameda, Cal. Sash holder and lock. No. 974,696; Nov. 1; Sp. p. 1405; Gaz. vol. 160; p. 217.
Narance, George, assignor of one-half to T. J. Smith, St. Joseph, Mo. Shoe-cleaner. No. 959,580; May 31; Sp. p. 6828; Gaz. vol. 154; p. 1162.
Narber, Franklin P., Yonkers, N. Y. Washing-machine pounder. No. 953,542; Mar. 29; Sp. p. 6382; Gaz. vol. 152; p. 1142.
Narragansett Machine Company. (See Thornley, Albert J., assignor.)
Nash, Charles J., assignor to W. H. Miner Company, Chicago, Ill. Metallic running-board saddle for railway-cars. No. 946,847; Jan. 18; Sp. p. 4118; Gaz. vol. 150; p. 682.
Nash Engineering Company. (See Nash, Lewis H., assignor.)
Nash, Firmin T., Salem, Oreg. Chair or stool attachment. No. 970,385; Sept. 13; Sp. p. 2638; Gaz. vol. 158; p. 445.
Nash, Frederick J., Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 955,982; Apr. 26; Sp. p. 4968; Gaz. vol. 153; p. 878.
Nash, Frederick J, Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Blade-holder. No. 968,391; Aug. 23; Sp. p. 5438; Gaz. vol. 157; p. 938.
Nash, Frederick J., Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for roughing shoe-soles, &c. No. 978,777; Dec. 13; Sp. p. 2938; Gaz. vol. 161; p. 497.

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Nash, George. (See Brayshaw, Shipley N., assignor.)
Nash, Harry C. (See Thebaud, John E., assignor.)
Nash, John H., Beverly, Mass. Heel. No. 953,099; Mar. 29; Sp. p. 5419; Gaz. vol. 152; p. 993.
Nash, John M., Wauwatosa, Wis. Abrading-machine. No. 969,183; Sept. 6; Sp. p. 88; Gaz. vol. 158; p. 14.
Nash, Lawrence S., assignor to C. Brushaber, Detroit, Mich. Air-valve for pneumatic control systems. No. 953,795; Apr. 5; Sp. p. 225; Gaz. vol. 153; p. 40.
Nash, Lewis H., South Norwalk, Conn., assignor to Nash Engineering Company. Displacement structure. No. 953,222; Mar. 29; Sp. p. 5681; Gaz. vol. 152; p. 1032.
Nash, Lewis H., South Norwalk, Conn., assignor to Nash Engineering Company, New York, N. Y. Measuring instrument and similar tool. No. 953,282; Mar. 29; Sp. p. 5814; Gaz. vol. 152; p. 1052.
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Meter-register. No. 957,082; May 3; Sp. p. 1252; Gaz. vol. 154; p. 199.
Nash, William G., Daytona, Fla. Signaling device for automobiles. No. 977,215; Nov. 29; Sp. p. 6935; Gaz. vol. 160; p. 1179.
Nash, William M., Norfolk, Va. Axle. No. 945,134; Jan. 4; Sp. p. 255; Gaz. vol. 150; p. 44.
Nasmith, John D. (See Turner, Sydney, assignor.)
Nathan, Louis, Chicago, Ill. Lady's dressing-sack. No. 947,598; Jan. 25; Sp. p. 5789; Gaz. vol. 150; p. 962.
Nathanson, Maurice B., Leominster, Mass. Puff-forming barrette. No. 956,991; May 3; Sp. p. 1069; Gaz. vol. 154; p. 168.
Nather, Frank, Columbus, Nebr. Percolator for coffee or tea pots. No. 946,578; Jan. 18; Sp. p. 3507; Gaz. vol. 150; p. 590.
Nathorst, Harry J. H., Gellivare Malmfält, Malmberget, Sweden. Rock-drill. No. 964,875; July 19; Sp. p. 4096; Gaz. vol. 156; p. 683.
Nathurst, Jalmar G., Kingston, N. Y. Trinitrotoluene mixture for explosives. No. 971,211; Sept. 27; Sp. p. 4420; Gaz. vol. 158; p. 774.
Nathusius, Hans, Friedenshütte, near Morgenroth, Germany. Electric melting and refining furnace. No. 958,757; May 24; Sp. p. 5083; Gaz. vol. 154; p. 859.
Nation, Don O., Oklahoma, Okla. Thermostatic temperature-regulator. No. 958,157; May 17; Sp. p. 3727; Gaz. vol. 154; p. 630.
National-Acme Manufacturing Company, The. (See Henn, Edwin C., assignor.)
National Acme Manufacturing Company, The. (See Hunter, Hugh M., assignor.)
National Acme Manufacturing Company, The. (See Rand, Fred K., assignor.)
National-Acme Manufacturing Company, The. (See Smith, Oscar A., assignor.)
National Air Filter Company. (See Shaffner, Samuel C., assignor.)
National Air Filter Company. (See Shaffner and Hutton, assignors.)
National Biscuit Company. (See Ricker, Van Clief, assignor.)
National Blank Book Company. (See Layton, Thomas E., assignor.)
National Brake Company. (See Brewster, William D., assignor.)
National Brake & Electric Company. (See Richards, Walter J., assignor.)
National Briquetting and Clay Working Machinery Company, The. (See Fernholtz, Emil, assignor.)
National Carbon Company. (See Barron and Waitt, assignors.)
National Carbon Company. (See Shaw, William, assignor.)
National Carbonated Liquid Co. (See Kennedy, Guy L., assignor.)
National Cash Protector Company. (See Hoffman, Fred, assignor.)
National Cash Register Company, The. (See Carney, Thomas, assignor.)
National Cash Register Company, The. (See Carroll, Thomas, assignor.)
National Cash Register Company, The. (See Church, Edmund S., assignor.)
National Cash Register Company, The. (See Cleal, Joseph P., assignor.)
National Cash Register Company, The. (See Fassett, Francis K., assignor.)
National Cash Register Company, The. (See Kettering, Charles F., assignor.)
National Cash Register Company, The. (See Lundgren, Charles A., assignor.)
National Cash Register Company, The. (See McCormick, John H., assignor.)
National Cash Register Company, The. (See Muzzy, William H., assignor.)
National Cash Register Company, The. (See Osborn, Francis C., assignor.)
National Cash Register Company, The. (See Riddle, Robert H., assignor.)
National Cash Register Company, The. (See Schweiger, William F., assignor.)
National Cash Register Company, The. (See Spangler, William I., assignor.)
National Cash Register Company, The. (See Werner, John A., assignor.)
National Casket Company. (See Farnam, Frank W., assignor.)
National Casket Company, The. (See Frazier, George C., assignor.)
National Checking Company. (See Raschick, Charles T., assignor.)
National Checking Company. (See Raschick and Tornquist, assignors.)
National Cloak and Suit Company. (See Cohn, Solomon, assignor.)
National Cob Pipe Works *et al.* (See Kolf, Max, assignor.)
National Compositype Company. (See Miller, Andrew E., assignor.)
National Cotton Harvester Company. (See Elliott, George C., assignor.)
National Desk Company. (See Bodenstein, Jacob, assignor.)
National Dictograph Company. (See Falk, Oscar F., assignor.)
National Dump Car Company. (See Caswell, William A., assignor.)
National Dump Car Company. (See Lipschutz, Arthur, assignor.)
National Dump Car Company. (See Meissner, Otto W., assignor.)
National Dump Car Company. (See Neikirk, John O., assignor.)
National Dump Car Company. (See Otis, Spencer, assignor.)
National Dump Car Company. (See Seaberg, Frederick, assignor.)
National Electric Lamp Company, The. (See Frech, Theodore W., Jr., assignor.)
National Electric Signaling Company. (See Fessenden, Reginald A., assignor.)
National Electric Works. (See Sohm, Alfred L., assignor.)
National Electrical Advertising Co. (See McCoy, James A., assignor.)
National Enameling and Stamping Company. (See Kieckhefer, Alfred J., assignor.)
National Fence & Gate Co. (See Mercer, Charles, assignor.)
National Fibre Box Company. (See Walter, Harrison B., assignor.)
National Fire Proofing Company. (See Nee, Dudley J., assignor.)
National Fire Proofing Company, The. (See Nickson, Eliott E., assignor.)
National Furniture Company. (See Carlson, Alfred, assignor.)
National Glide Proof Company. (See Leix and Lowy, assignors.)
National Hygenic Service Company. (See Jones, Alva D., assignor.)
National Iron Company *et al.* (See Forest, Albert, assignor.)
National Land and Sub-Irrigation Company, The. (See Wiggins, John L., assignor.)
National Liquid Register Company. (See Newman, Julius C., assignor.)
National Lock Company. (See Faust and Hogland, assignors.)
National Lock Washer Co., The. (See Wilson, James E., assignor.)
National Machine Company, The. (See Slater, Harris W., assignor.)
National Malleable Castings Company, The. (See Bazeley, Arthur J., assignor.)
National Malleable Castings Company, The. (See Buckius, Albert O., Jr., assignor.)
National Malleable Castings Company. (See Byers, Jacob J., assignor.)
National Malleable Castings Company, The. (See Coffin, Walter E., assignor.)
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National Malleable Castings Company, The. (See Stephenson, John W., assignor.)
National Malleable Castings Company, The. (See Tower, Clinton A., assignor.)
National Metal Fabric Company, The. (See Clark, Norris E., assignor.)
National Metal Seal Company. (See Chellis, Eugene D., assignor.)
National Meter Company. (See Kelley, John C., assignor.)
National Meter Company. (See Nash, Lewis H., assignor.)

National Novelty Company. (See Gilbert, Jacob, assignor.)
National Nutrient Company. (See Campbell, Joseph H. and C. H., assignors.)
National Orchard Heater Co., The. (See Fulghum, Thomas E., assignor.)
National Patent Holding Company. See Otis, Spencer, assignor.)
National Peeler Company, The. (See Powell, Robert, assignor.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
National Pneumatic Service Corporation. (See Wolever, Franklin H., assignor.)
National Pressed Fuel Company. (See Gentle, William M., assignor.)
National Purification Company. (See Amos, Richard W., assignor.)
National Safety Snap Company, The. (See Simpson, Robert D., assignor.)
National Scale Company. (See Culmer, John W., assignor.)
National Sewing Machine Company. (See Atwood, Clarence B., assignor.)
National Sewing Machine Company. (See Brown, Richard R., assignor.)
National Shoe Supply Company. (See Cheney, Fern L., assignor.)
National Snow Melting Company. (See Lang, James S., assignor.)
National Specialty Company. (See Simmons, James L., assignor.)
National Spring Bed Company. (See Arnold, Harry B., assignor.)
National Stamp Vending Machine Company, The. (See Williams and Briggs, assignors.)
National Steam Specialty Company. (See Brissenden, Walter W., assignor.)
National Straw Pulp Company, The. (See Kennedy, Michael R., assignor.)
National Tag Company. (See Kuhns, John P., assignor.)
National Tobacco Stemming Machine Company. (See Morris, John O., assignor.)
National Torpedo Company. (See Davis, Cleland, assignor.)
National Tube Company. (See Baker and Anderson, assignors.)
National Tube Company. (See Bark, William, assignor.)
National Tube Company. (See Bierman and Keast, assignors.)
National Tube Company. (See Heggie, David, assignor.)
National Tube Company. (See Mowat, Oliver M., assignor.)
National Tube Company. (See Saunders, Augustus M., assignor.)
National Tube Company. (See Wood, Joseph H., assignor.)
National Umbrella Frame Company. (See Garrett, George K., assignor.)
National Vacuum Devices Company. (See Bergens, William J., assignor.)
National Vending Machine Company, The. (See Williams and Briggs, assignors.)
National Veneer Package Company. (See Gregg, Norris B., assignor.)
National Wafer Company. (See Meier, Frederick A., assignor.)
National Water Main Cleaning Company, The. (See Hill and Hodgman, assignors.)
National Water Main Cleaning Company. (See Inglee, Clinton, assignor.)
National Water Main Cleaning Company. (See Mueller, Oscar B., assignor.)
National Waterproof Film Company. (See Thompson, Fredrick B., assignor.)
National Wire Bound Box Company. (See Inwood and Sigerfoose, assignors.)
National Wire Bound Box Company. (See Prahl, Frederick A., assignor.)
Nat'l Laundry Machinery Company, The. (See McDorman, Paul, assignor.)
Natt, Charles A., assignor of one-half to N. E. MacEwan, Rochester, N. Y. Bottle-stopper. No. 952,683; Mar. 22; Sp. p. 4536; Gaz. vol. 152; p. 824.
Natural Dry Products Company. (See Kalb, Albert G., assignor.)
Natural Gas Regulator Company. (See Fox, Otto, assignor.)
Natural Soda Products Company. (See Wrinkle and Paddock, assignors.)
Nauck, Carl A., Little Rock, Ark. Depositing-box and time-stamp. No. 957,083; May 3; Sp. p. 1253; Gaz. vol. 154; p. 199.
Naughtin, James E., Chicago, Ill. Pump. No. 962,518; June 28; Sp. p. 4815; Gaz. vol. 155; p. 847.
Naugle, Frederick S. (See Penfield and Naugle.)
Naugle, John, Bedford, Ind. Folding bed. No. 957,240; May 10; Sp. p. 1604; Gaz. vol. 154; p. 283.
Naugle, Joseph F., Meyersdale, Pa. Door-check. No. 972,019; Oct. 4; Sp. p. 1119; Gaz. vol. 159; p. 187.
Nault, John, Chicago Heights, Ill. Device for catching flies and other insects. No. 959,155; May 24; Sp. p. 5944; Gaz. vol. 154; p. 995.
Naulty, James, and J. Scanlin, Philadelphia, Pa. Composition metal. No. 959,156; May 24; Sp. p. 5945; Gaz. vol. 154; p. 995.
Naulty, James, and J. Scanlin, Philadelphia, Pa. Making copper alloys and the product thereof. No. 974,419; Nov. 1; Sp. p. 764; Gaz. vol. 160; p. 116.
Naum, Harry D., Newburgh, N. Y. Envelop. No. 958,523; May 17; Sp. p. 4611; Gaz. vol. 154; p. 756.
Naum, Harry D., Newburgh, N. Y. Bottle filling and capping apparatus. No. 969,391; Sept. 6; Sp. p. 512; Gaz. vol. 158; p. 82.
Naumann, Friedrich, assignor to Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien, Braunschweig, Hagen, Germany. Calculating-machine. No. 967,821; Aug. 16; Sp. p. 4198; Gaz. vol. 157; p. 719.
Nauss, Oskar, Breslau, Germany. Manufacturing gas for inflating aerostats. No. 965,482; July 26; Sp. p. 5358; Gaz. vol. 156; p. 917.
Nauts, Frank A., assignor to Gendron Wheel Company, Toledo, Ohio. Folding perambulator. No. 958,423; May 17; Sp. p. 4409; Gaz. vol. 154; p. 721.
Nawiasky, Paul. (See Julius, Villiger, and Nawiasky.)
Nawiasky, Paul. (See Oberreit and Nawiasky.)
Nawn, John P., assignor of one-half to G. Schilling, Philadelphia, Pa. Automatic water-regulator for gas-producers. No. 956,818; May 3; Sp. p. 693; Gaz. vol. 154; p. 109.
Nayer, Carl F., and A. J. Perkins, Chicago, Ill. Bacon-slicer. No. 968,590; Aug. 30; Sp. p. 5860; Gaz. vol. 157; p. 1033.
Naylor, Jonathan R., La Grange, Ill., assignor to The Naylor Manufacturing Company. Harrow attachment for wheeled plows. No. 954,758; Apr. 12; Sp. p. 2308; Gaz. vol. 153; p. 399.
Naylor, Jonathan R, La Grange, Ill., assignor to Naylor Manufacturing Company. Harrow. No. 954,759; Apr. 12; Sp. p. 2311; Gaz. vol. 153; p. 400.
Naylor, Joseph S., assignor of one-half to C. V. Gregory, Ames, Iowa. Seed-corn tester. No. 976,485; Nov. 22; Sp. p. 5323; Gaz. vol. 160; p. 902.
Naylor Manufacturing Company, The. (See Naylor, Jonathan R., assignor.)
Naylor, Paul B., Kansas City, Mo. Silo. No. 973,687; Oct. 25; Sp. p. 4786; Gaz. vol. 159; p. 831.
Nazel, John, Philadelphia, Pa., assignor to Sanitary Paper Bottle Company, Wilmington, Del. Tube-trimming machine. No. 946,682; Jan. 18; Sp. p. 3736; Gaz. vol. 150; p. 624.
Nazel, John, and W. E. Barlow, Philadelphia, Pa., assignors to Sanitary Paper Bottle Company, Wilmington, Del. Tool for closing receptacles. No. 974,908; Nov. 8; Sp. p. 1877; Gaz. vol. 160; p. 310.
Nazor, Arthur U., assignor of one-half to G. L. Cooper, Shelby, Ohio. Bit for horses. No. 978,051; Dec. 6; Sp. p. 1352; Gaz. vol. 161; p. 217.
Neafie, Andrew J., Boonton, N. J., assignor to The Delaware, Lackawanna & Western Railroad Company, New York, N. Y. Tie-plate. No. 977,121; Nov. 29; Sp. p. 6734; Gaz. vol. 160; p. 1146.
Neal, Albert, Center, Ind. Lifting-jack. No. 958,969; May 24; Sp. p. 5555; Gaz. vol. 154; p. 933.
Neal, Chas. H., *et al.* (See Roberds, Garfield A., assignor.)
Neal, John W., Kealia, Hawaii. Hydraulic air-compressor. No. 946,683; Jan. 18; Sp. p. 3738; Gaz. vol. 150; p. 625.
Neal, John W., Kealia, Hawaii. Anchor. No. 957,621; May 10; Sp. p. 2384; Gaz. vol. 154; p. 413.
Neal, Joseph H., Baltimore, Md. Bath-tub. No. 962,240; June 21; Sp. p. 4184; Gaz. vol. 155; p. 727.
Neal, Spencer G. (See Sheasby and Neal.)
Neal, Spencer G., Los Angeles, assignor to California Valve and Air Brake Company, Palms, Cal. Valve for blending hot and cold fluids. No. 948,520; Feb. 8; Sp. p. 1564; Gaz. vol. 151; p. 275.
Neal, Spencer G., Los Angeles, assignor to California Valve and Air Brake Company, Palms, Cal. Self-seating and self-closing valve. No. 951,378; Mar. 8; Sp. p. 1870; Gaz. vol. 152; p. 326.
Neal, Spencer G., Los Angeles, assignor to California Valve and Air Brake Company, Palms, Cal. Combined operating and controlling means for hydraulic elevators. No. 959,786; May 31; Sp. p. 7241; Gaz. vol. 154; p. 1230.
Neal, Spencer G., and J. M. Childress, Los Angeles, assignors to California Valve and Air Brake Company, Palms, Cal. Ball-cock valve and operating means therefor. No. 948,519; Feb. 8; Sp. p. 1562; Gaz. vol. 151; p. 275.
Neal, Spencer G., and J. M. Childress, Los Angeles, assignors to The California Valve and Air Brake Company, Palms, Cal. Means for operating railway-brakes. No. 961,310; June 14; Sp. p. 2182; Gaz. vol. 155; p. 391.
Neal, Spencer G., and J. M. Childress, Los Angeles, assignors to California Valve and Air Brake Company, Palms, Cal. Pressure-regulating apparatus. No. 970,736; Sept. 20; Sp. p. 3420; Gaz. vol. 158; p. 586.
Neal, Thomas. (See Heinz, Jacob, assignor.)
Neal, Thomas C. (See Smith, Benjamin W., assignor.)
Neal, Thomas S., Detroit, Mich. Machine for shaping paper tubes. No. 969,555; Sept. 6; Sp. p. 872; Gaz. vol. 158; p. 137.

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Neale, Herbert S. (See Robinson and Neale.)
Nearing, Frank, New York, N. Y. Rotary engine. No. 968,786; Aug. 30; Sp. p. 6308; Gaz. vol. 157; p. 1100.
Neary, James. (See King and Neary.)
Neary, John, assignor to Kokomo Rubber Company, Kokomo, Ind. Tire. No. 952,132; Mar. 15; Sp. p. 3381; Gaz. vol. 152; p. 608.
Nebanas, Harold H., Liverpool, England. Course-indicator. No. 955,347; Apr. 19; Sp. p. 3565; Gaz. vol. 153; p. 630.
Nebergall, Ben F. (See Giesecke, Nebergall, and Oheim.)
Neblett, Charles, Bellevue, Ky. Boiler-brace. No. 961,522; June 14; Sp. p. 2639; Gaz. vol. 155; p. 461.
Neckerman, Roy. (See Foell, Kusebauch, and Neckerman.)
Nederloe, Ole J., Mount Sterling, Wis. Wire-stretching clamp. No. 971,065; Sept. 27; Sp. p. 4104; Gaz. vol. 158; p. 726.
Nee, Dudley J., assignor to National Fire Proofing Company, Pittsburg, Pa. Conveyer. No. 948,661; Feb. 8; Sp. p. 1864; Gaz. vol. 151; p. 322.
Needham, John T. (See Skirrow and Needham.)
Needham, John T., New York, assignor to Interstate Pneumatic Tube Company, Brooklyn, N. Y. Pneumatic-despatch-tube apparatus. No. 976,744; Nov. 22; Sp. p. 5835; Gaz. vol. 160; p. 989.
Neef, Jacob F. (See Richardson and Neef.)
Neelmeier, Wilhelm. (See Jansen and Neelmeier.)
Neely Compress and Cotton Co., The. (See Wood, James N., assignor.)
Neely, Herbert G., College Hill, assignor of one-half to C. Joseph, Cincinnati, Ohio. Cornet. No. 966,700; Aug. 9; Sp. p. 1838; Gaz. vol. 157; p. 314.
Neely, William B. (See White, Garrett, assignor.)
Neeper, A. M. (See Forsyth, William D., assignor.)
Neerup, Peter, assignor to Reliable Tool & Specialty Company, Louisiana, Mo. Pipe-reamer. No. 979,786; Dec. 27; Sp. p. 5123; Gaz. vol. 161; p. 891.
Neff, Alfred J., Richmond, Ind. Hose-bridge. No. 955,280; Apr. 19; Sp. p. 3417; Gaz. vol. 153; p. 607.
Neff, Harry O., assignor of one-half to H. W. Gerke, Joplin, Mo. Lawn-mower sharpener. No. 965,926; Aug. 2; Sp. p. 162; Gaz. vol. 157; p. 28.
Neff, Miles P., Wayland, Iowa. Harrow. No. 973,805; Oct. 25; Sp. p. 5016; Gaz. vol. 159; p. 872.
Neff, Omar F., Milford, Ind. Attachment for automobiles. No. 972,020; Oct. 4; Sp. p. 1121; Gaz. vol. 159; p. 188.
Neff, Omar F., Milford, Ind. Head-rest. No. 973,957; Oct. 25; Sp. p. 5324; Gaz. vol. 159; p. 925.
Neff, Peter, assignor to The Loew Manufacturing Company, Cleveland, Ohio. Pipe cutting and threading machine. No. 978,190; Dec. 13; Sp. p. 1680; Gaz. vol. 161; p. 295.
Neff, Peter, D. Cole, and E. L. Ebersole, assignors to The Arctic Ice Machine Company, Canton, Ohio. Check-valve for ammonia-compressors. No. 967,546; Aug. 16; Sp. p. 3654; Gaz. vol. 157; p. 628.
Neff, William A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Portable apparatus for bonding rails. No. 950,784; Mar. 1; Sp. p. 693; Gaz. vol. 152; p. 111.
Neff, William A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Electrode for welding, &c. No. 960,681; June 7; Sp. p. 899; Gaz. vol. 155; p. 149.
Neff, William A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Apparatus for bonding rails. No. 961,984; June 21; Sp. p. 3626; Gaz. vol. 155; p. 638.
Neffien, Paul H., Elkins, W. Va. Window-ventilator and shade-guard. No. 973,959; Oct. 25; Sp. p. 5327; Gaz. vol. 159; p. 926.
Neffien, Paul H., and J. F. Giffen, Elkins, W. Va. Door-lock. No. 963,632; July 5; Sp. p. 1345; Gaz. vol. 156; p. 208.
Neffien, Paul H., and J. F. Giffen, Elkins, W. Va.; said Giffen assignor to said Neffien. Window-ventilator and curtain-guard. No. 973,958; Oct. 25; Sp. p. 5325; Gaz. vol. 159; p. 925.
Negley, Claude E., Indianapolis, Ind. Excavator. No. 958,158; May 17; Sp. p. 3729; Gaz. vol. 154; p. 630.
Negley, Frank, Alameda, Cal. Pump. No. 960,575; June 7; Sp. p. 692; Gaz. vol. 155; p. 114.
Negley, Oliver K., Galesburg, Ill. Repair-gland. No. 976,204; Nov. 22; Sp. p. 4660; Gaz. vol. 160; p. 803.
Neher, George F., Shelbyville, Ill. Ironing-board. No. 963,381; July 5; Sp. p. 834; Gaz. vol. 156; p. 123.
Nehf, Benjamin L., Dinuba, Cal. Cultivator. No. 977,031; Nov. 29; Sp. p. 6528; Gaz. vol. 160; p. 1114.
Nehr, Herman F., Rutherford, N. J. Egg-beater. No. 951,834; Mar. 15; Sp. p. 2790; Gaz. vol. 152; p. 509.
Nehrbas, Frederick P., assignor to E. R. Thomas Motor Company, Buffalo, N. Y. Automobile. No. 950,949; Mar. 1; Sp. p. 1021; Gaz. vol. 152; p. 163.
Neider, Fred A., Augusta, Ky. Top-prop. No. 956,722; May 3; Sp. p. 478; Gaz. vol. 154; p. 77.
Neider, Fred A., Augusta, Ky. Nail. No. 959,876; May 31; Sp. p. 7463; Gaz. vol. 154; p. 1261.
Neider, Fred A., Augusta, Ky. Forming double-headed nails. No. 978,924; Dec. 20; Sp. p. 3225; Gaz. vol. 161; p. 572.
Neidich, Samuel A., Burlington, N. J. Composing-stick. No. 955,534; Apr. 19; Sp. p. 3955; Gaz. vol. 153; p. 694.
Neidl, William J., New Britain, Conn. Bracket. No. 967,419; Aug. 16; Sp. p. 3400; Gaz. vol. 157; p. 586.
Neighbors, Charles C., San Antonio, Tex. Back-pressure valve. No. 946,684; Jan. 18; Sp. p. 3742; Gaz. vol. 150; p. 625.
Neighbour, William W., Denison, Tex., assignor to Suspension Ball Bearing Manufacturing Company, New York, N. Y. Wheel. No. 968,392; Aug. 23; Sp. p. 5441; Gaz. vol. 157; p. 938.
Neikirk, John O., Morgan Park, Ill. Railway-car. No. 953,176: Mar. 29; Sp. p. 5586; Gaz. vol. 152; p. 1017.
Neikirk, John O., Morgan Park, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 956,819; May 3; Sp. p. 695; Gaz. vol. 154; p. 109.
Neikirk, John O., Morgan Park, assignor to National Dump Car Company, Chicago, Ill. Dumping-door-operating mechanism. No. 973,874; Oct. 25; Sp. p. 5165; Gaz. vol. 159; p. 897.
Neikirk, John O., Morgan Park, assignor to Hercules Equipment Company, Chicago, Ill. Car-axle. No. 976,486; Nov. 22; Sp. p. 5325; Gaz. vol. 160; p. 903.
Neil, Henry R. (See Wheeler and Neil.)
Neil, Moses H. (See Schlared, Charles, assignor.)
Neill, James, Sheffield, England. Machine for cutting files and the like. No. 971,066; Sept. 27; Sp. p. 4106; Gaz. vol. 158; p. 726.
Neilly, Daniel, Bradford, Pa. Bottle-washer. No. 979,191; Dec. 20; Sp. p. 3860; Gaz. vol. 161; p. 668.
Neilson, Francois, New York, N. Y. Device for balancing boats. No. 972,398; Oct. 11; Sp. p. 1912; Gaz. vol. 159; p. 336.
Neisler, Clydus M., Litchfield, Ill. Vapor-lamp. No. 978,191; Dec. 13; Sp. p. 1682; Gaz. vol. 161; p. 296.
Neisler, Oscar L., Indianapolis, Ind. Street-sweeper. No. 969,556; Sept. 6; Sp. p. 873; Gaz. vol. 158; p. 137.
Nelan, William, Akron, Ohio. Manufacturing whiting. No. 950,793; Mar. 1; Sp. p. 721; Gaz. vol. 152; p. 115.
Neller, Albert H., Fairfield, Iowa. Stop for overhead carriers. No. 945,577; Jan. 4; Sp. p. 1232; Gaz. vol. 150; p. 191.
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Tool for dressing emery-wheels. No. 967,420; Aug. 16; Sp. p. 3401; Gaz. vol. 157; p. 586.
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Coupling for pipes, shafts, &c. No. 970,737; Sept. 20; Sp. p. 3425; Gaz. vol. 158; p. 587.
Nelles, Fred C. (See Grine, Harry A., assignor.)
Nellis, Charles E., Brooklyn, N. Y., assignor to Grinden Art Metal Company. Metallic structure, such as doors and the like. No. 964,676; July 19; Sp. p. 3585; Gaz. vol. 156; p. 613.
Nelon, Harry A., St. Louis, Mo. Measuring-faucet. No. 955,983; Apr. 26; Sp. p. 4971; Gaz. vol. 153; p. 879.
Nelsen, Hans C., Hartford, Conn. Lathe-chuck. No. 965,216; July 26; Sp. p. 4777; Gaz. vol. 156; p. 826.
Nelson, Alfred C., assignor of one-third to A. G. McKee and one-third to D. T. Croxton, Cleveland, Ohio. Device for controlling fluids. No. 959,025; May 24; Sp. p. 5663; Gaz. vol. 154; p. 952.
Nelson, Allan C., Flushing, N. Y. Ball game. No. 971,626; Oct. 4; Sp. p. 251; Gaz. vol. 159; p. 44.
Nelson, Andrew, Grace, Wash. Egg-crate filler. No. 979,192; Dec. 20; Sp. p. 3862; Gaz. vol. 161; p. 668.
Nelson, Arthur P., Le Beau, S. D. Globe for protecting mantles. No. 957,790; May 10; Sp. p. 2743; Gaz. vol. 154; p. 470.
Nelson, August P., Chicago, Ill., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. Time circuit-controlling apparatus. No. 965,534; July 26; Sp. p. 5494; Gaz. vol. 156; p. 936.
Nelson, Axel. (See Gerberich, Clarence E., assignor.)
Nelson, Bernard, Chicago, Ill. Clasp. No. 975,063; Nov. 8; Sp. p. 2235; Gaz. vol. 160; p. 364.
Nelson, Bruce G., Devils Lake, N. D. Grain-saving device. No. 976,745; Nov. 22; Sp. p. 5840; Gaz. vol. 160; p. 989.
Nelson, Carl J., North Milwaukee, Wis Disk seeder. No. 960,576; June 7; Sp. p. 693; Gaz. vol. 155; p. 114.
Nelson, Charles, Axtell, Nebr. Bob-sled attachment. No. 964,537; July 19; Sp. p. 3283; Gaz. vol. 156; p. 564.
Nelson, Charles J. (See Young, William T., assignor.)
Nelson, Edwin H., Detroit, Mich. Pad-holder. No. 972,709; Oct. 11; Sp. p. 2607; Gaz. vol. 159; p. 443.
Nelson, Emil A., assignor to Hupp Motor Car Company, Detroit, Mich. Brake. No. 970,738; Sept. 20; Sp. p. 3426; Gaz. vol. 158; p. 587.
Nelson, Emil A., assignor to Rotary Valve Motor Company, Detroit, Mich. Crank-shaft and bearing therefor. No. 974,697; Nov. 1; Sp. p. 1406; Gaz. vol. 160; p. 218.
Nelson, Frank E., Los Angeles, Cal. Liquid-fuel-burning apparatus. No. 952,932; Mar. 22; Sp. p. 5056; Gaz. vol. 152; p. 908.
Nelson, George A., Bayonne, N. J. Scuttle. No. 975,983; Nov. 15; Sp. p. 4165; Gaz. vol. 160; p. 705.
Nelson, George A., Timpson, assignor of one-half to J. T. Peddy, Teneha, Tex. Grass-destroyer. No. 947,252; Jan. 25; Sp. p. 4951; Gaz. vol. 150; p. 843.
Nelson, George B., Redfield, Iowa. Governor. No. 958,159; May 17; Sp. p. 3730; Gaz. vol. 154; p. 630.

Alphabetical list of patentees—Continued.

Nelson, George F., and J. H. Bean, Washington, D. C. Trocha-cutter. No. 979,686; Dec. 27; Sp. p. 4895; Gaz. vol. 161; p. 858.
Nelson, George H. (See Johnson, William, assignor.)
Nelson, George P. H., Lake Providence, La. Vehicle-step. No. 966,043; Aug. 2; Sp. p. 436; Gaz. vol. 157; p. 70.
Nelson, George W., Minneapolis, Minn. Buttonhole-machine. No. 949,401; Feb. 15; Sp. p. 3419; Gaz. vol. 151; p. 597.
Nelson, Henry, Cleveland, Ohio. Brush. No. 969,075; Aug. 30; Sp. p. 6883; Gaz. vol. 157; p. 1198.
Nelson, James L., Clarksville, Ark. Button-fastening means. No. 947,557; Jan. 25; Sp. p. 5701; Gaz. vol. 150; p. 946.
Nelson, John, Courtenay, N. D. Hay-loader. No. 956,145; Apr. 26; Sp. p. 5324; Gaz. vol. 153; p. 935.
Nelson, John and J. B., and G. C. Hanks, New Orleans, La. Safety-guard for railway-cars. No. 972,632; Oct. 11; Sp. p. 2460; Gaz. vol. 159; p. 418.
Nelson, John B. (See Nelson and Hanks.)
Nelson, Joseph W. (See Scott, Clyde B., assignor.)
Nelson, Julia J. (See Braswell, Richard R., assignor.)
Nelson, Knute, Chicago, Ill. Molding-machine. No. 960,380; June 7; Sp. p. 292; Gaz. vol. 155; p. 49.
Nelson, L Andrew, Foss, Wis. Fence-post. No. 947,929; Feb. 1; Sp. p. 309; Gaz. vol. 151; p. 52.
Nelson, Lewen R., assignor of one-half to Stuber & Kuck, Peoria, Ill. Hose-connector. No. 946,703; Jan. 18; Sp. p. 3771; Gaz. vol. 150; p. 631.
Nelson, Louis J., Chicago, Ill. Bolt. No. 966,849; Aug. 9; Sp. p. 2208; Gaz. vol. 157; p. 363.
Nelson, Louis M., Douglas, Wyo. Windmill-governor. No. 950,077; Feb. 22; Sp. p. 4884; Gaz. vol. 151; p. 860.
Nelson, Louis M., Douglas, Wyo. Check-operated controlling mechanism. No. 967,822; Aug. 16; Sp. p. 4206; Gaz. vol. 157; p. 719.
Nelson, Louis M., Pennington, N. J., assignor to Nelson Tire Company. Tire. No. 955,188; Apr. 19; Sp. p. 3210; Gaz. vol. 153; p. 576.
Nelson, Louis M., Pennington, N. J., assignor to Nelson Tire Company. Tire. No. 968,069; Aug. 23; Sp. p. 4749; Gaz. vol. 157; p. 826.
Nelson, Louis M., Pennington, N. J., assignor to Nelson Tire Company. Tire. No. 969,717; Sept. 6; Sp. p. 1194; Gaz. vol. 158; p. 193.
Nelson, Louise, Chicago, Ill. Coin-holder. No. 970,097; Sept. 13; Sp. p. 2054; Gaz. vol. 158; p. 349.
Nelson, Nels, Havana, N. D. Apparatus for raising sunken vessels. No. 963,168; July 5; Sp. p. 355; Gaz. vol. 156; p. 51.
Nelson, Nels G., Rockford, Ill. Miter-box. No. 948,428; Feb. 8; Sp. p. 1368; Gaz. vol. 151; p. 244.
Nelson, Nels H., Willmar, Minn. Power dumping-vehicle. No. 976,389; Nov. 22; Sp. p. 5113; Gaz. vol. 160; p. 868.
Nelson, Nels J., Red Wing, Minn. Apparatus for delivering and receiving mail. No. 952,574; Mar. 22; Sp. p. 4289; Gaz. vol. 152; p. 786.
Nelson, Nicholas N., Ojata, N. D. Screen for threshing-machine separators. No. 945,187; Jan. 4; Sp. p. 370; Gaz. vol. 150; p. 62.
Nelson, Ole, Mankato, Minn. Fresh-air injector for furnace heating and ventilating. No. 954,989; Apr. 12; Sp. p. 2823; Gaz. vol. 153; p. 479.
Nelson, Oscar, Globe, Ariz. Shoe-fastening device. No. 950,862; Mar. 1; Sp. p. 851; Gaz. vol. 152; p. 136.
Nelson, Oscar, assignor to J. P. Seeburg Piano Company, Chicago, Ill. Rewinding and speed-regulating mechanism for pneumatic actions for pianos, &c. No. 972,633; Oct. 11; Sp. p. 2461; Gaz. vol. 159; p. 419.
Nelson, Oscar G., Alliance, Ohio. Child's adjustable chair. No. 961,311; June 14; Sp. p. 2198; Gaz. vol. 155; p. 391.
Nelson, Otto, Axtell, Nebr. Music-teaching device. No. 979,193; Dec. 20; Sp. p. 3863; Gaz. vol. 161; p. 668.
Nelson, Reuben C., Healdsburg, Cal. Pressure-regulator. No. 978,925; Dec. 20; Sp. p. 3226; Gaz. vol. 161; p. 573.
Nelson, Santa E., Kennett, Cal. Rail-joint. No. 973,291; Oct. 18; Sp. p. 3926; Gaz. vol. 159; p. 672.
Nelson, Sven T., Chicago, Ill. Lawn-mower. No. 962,780; June 28; Sp. p. 5367; Gaz. vol. 155; p. 938.
Nelson, Sven T., H. B. Halvorsen, and F. A. Halleck, Chicago, Ill., assignors to Sullivan Machinery Company. Automatic throttle-closing and brake-controlling device. No. 945,406; Jan. 4; Sp. p. 872; Gaz. vol. 150; p. 135.
Nelson, Theodore C., Haddonfield, assignor of one-half to C. McNulty, Westville, N. J. Basket. No. 955,824; Apr. 19; Sp. p. 4596; Gaz. vol. 153; p. 794.
Nelson Tire Company. (See Nelson, Louis M., assignor.)
Nelson, William, and C. O. Churchill, assignors to The Georgian Manufacturing Company, Binghamton, N. Y. Valve. No. 953,100; Mar. 29; Sp. p. 5420; Gaz. vol. 152; p. 993.
Nelson, William E., San Angelo, Tex. Reinforcing metal yoke for hollow concrete walls. No. 954,877; Apr. 12; Sp. p. 2602; Gaz. vol. 153; p. 442.
Nelson, William O., Baltimore, Md. Combined carbureter-protector and electric cut-out for automobiles. No. 976,487; Nov. 22; Sp. p. 5326; Gaz. vol. 160; p. 903.
Němeček, Adolf, Josefstadt, Austria-Hungary. Container for lubricants. No. 976,825; Nov. 22; Sp. p. 6020; Gaz. vol. 160; p. 1017.
Nemsey, William, Brooklyn, N. Y. Amusement device. No. 975,984; Nov. 15; Sp. p. 4167; Gaz. vol. 160; p. 705.
Nenninger, Oscar A., El Paso, Tex. Distilling device. No. 952,343; Mar. 15; Sp. p. 3795; Gaz. vol. 152; p. 679.
Nenzel, Frederick, Cincinnati, Ohio. Ammonia-purifier for refrigerating plants. No. 950,491; Mar. 1; Sp. p. 62; Gaz. vol. 152; p. 11.
Neostyle Envelope Company. (See Greenberg, Jacob, assignor.)
Nepean-Hutchison, William, Victoria, British Columbia, Canada. Animal-trap. No. 964,877; July 19; Sp. p. 4099; Gaz. vol. 156; p. 683.
Néple, Joseph, Lyon, France. Electric-lamp support. No. 960,998; June 7; Sp. p. 1532; Gaz. vol. 155; p. 256.
Neptune Meter Company. (See Dilts, Henry I., assignor.)
Nequette, Joseph H. (See Clark and Nequette.)
Nerhaft, Anton, Budapest, Austria-Hungary. Padlock. No. 957,705; May 10; Sp. p. 2555; Gaz. vol. 154; p. 442.
Nernst Lamp Company. (See Foell and Harris, assignors.)
Nernst Lamp Company. (See Foell, Kusebauch, and Neckerman, assignors.)
Nernst Lamp Company. (See Kusebauch, Anton, assignor.)
Nernst Lamp Company. (See Potter, Henry N., assignor.)
Nero, Allen S., Bottineau, N. D. Spring-hinge. No. 963,925; July 12; Sp. p. 1995; Gaz. vol. 156; p. 328.
Nero, Allen S., Bottineau, N. D. Spring-hinge. No. 977,468; Dec. 6; Sp. p. 88; Gaz. vol. 161; p. 16.
Nesbitt, Eda, Swan Hill, Victoria, Australia. Shoulder-brace. No. 945,858; Jan. 11; Sp. p. 1906; Gaz. vol. 150; p. 317.
Nesbitt, Eda, Swan Hill, Victoria, Australia. Gentleman's braces. No. 949,805; Feb. 22; Sp. p. 4237; Gaz. vol. 151; p. 764.
Nesemann, Louis, New York, N. Y. Moving-picture machine. No. 955,189; Apr. 19; Sp. p. 3211; Gaz. vol. 153; p. 577.
Ness, Ole A., Zumbrota, Minn. Road-grader. No. 967,656; Aug. 16; Sp. p. 3866; Gaz. vol. 157; p. 664.
Ness, Olof A., Wakefield, Mich. Floor-scrubbing machine. No. 966,230; Aug. 2; Sp. p. 832; Gaz. vol. 157; p. 132.
Neswold, John, St. Paul, Minn., assignor of four-tenths to S. N. Sorensen, Minneapolis, Minn. Gearing. No. 949,943; Feb. 22; Sp. p. 4558; Gaz. vol. 151; p. 814.
Netahla, Benjamin, Jr., Milligan, Nebr. Rail-straightener. No. 960,682; June 7; Sp. p. 901; Gaz. vol. 155; p. 149.
Netherwood, Harry (See Keighley and Netherwood.)
Nett, Fred H., Rialto, Cal. Nut-lock. No. 975,985; Nov. 15; Sp. p. 4168; Gaz. vol. 160; p. 705.
Neu, Adolf, Tod Inlet, British Columbia, Canada. Fuel-feeding means for cement-kilns. No. 958,970; May 24; Sp. p. 5557; Gaz. vol. 154; p. 934.
Neu, Herbert F., Brookfield, Wis. Bicycle-boat. No. 978,391; Dec. 13; Sp. p. 2112; Gaz. vol. 161; p. 368.
Neubeck, William H. (See O'Neill and Neubeck.)
Neubecker, Belle T., Niagara Falls, N. Y. Foot-rest. No. 972,217; Oct. 11; Sp. p. 1561; Gaz. vol. 159; p. 273.
Neuberger, Franklin H., Jeffersonville, N. Y. Building-block. No. 945,859; Jan. 11; Sp. p. 1907; Gaz. vol. 150; p. 317.
Neubert, Alois, Astoria, assignor to A. Schrader's Son, Incorporated, New York, N. Y. Tool-frame. No. 957,897; May 17; Sp. p. 2964; Gaz. vol. 154; p. 536.
Neuberth, George E., Newark, N. J. Skate. No. 945,795; Jan. 11; Sp. p. 1748; Gaz. vol. 150; p. 294.
Neuberth, George E., Newark, N. J. Outlet-box. No. 963,802; July 12; Sp. p. 1726; Gaz. vol. 156; p. 287.
Neubronner, Julius, Cronberg, Taunus, Germany. Mounting photographs, engravings, or the like in a dry condition. No. 956,723; May 3; Sp. p. 479; Gaz. vol. 154; p. 77.
Neudeck, Benjamin F., Kansas City, Kans., assignor of one-half to R. H. Weber, Kansas City, Mo. Gate. No. 978,192; Dec. 13; Sp. p. 1683; Gaz. vol. 161; p. 296.
Neue Berliner Messingwerke Wilhelm Borchert, Jr. (See Seifert, Johann T. J., assignor.)
Neuenschwander, Adam, Berne, Ind. Door-latch. No. 960,381; June 7; Sp. p. 294; Gaz. vol. 155; p. 49.
Neuenschwander, Adam, Berne, Ind. Barn-door latch. No. 964,876; July 19; Sp. p. 4098; Gaz. vol. 156; p. 683.
Neuerburg, Henry. (See Veatch, John W., assignor.)
Neuhaus, August O., Isny, Germany. Whip-handle. No. 952,344; Mar. 15; Sp. p. 3797; Gaz. vol. 152; p. 679.
Neuhaus, David, New York, N. Y. Hat and clothes rack. No. 976,205; Nov. 22; Sp. p. 4662; Gaz. vol. 160; p. 803.
Neuhs, Werner, Cleveland, Ohio. Journal-box. No. 958,758; May 24; Sp. p. 5085; Gaz. vol. 154; p. 859.
Neukirch, Otto, Cincinnati, Ohio. Tire-protector. No. 973,545; Oct. 25; Sp. p. 4474; Gaz. vol. 159; p. 782.
Neuman, Isaac, assignor of one-sixth to F. Magidson, one-sixth to E. Isaacson, one-sixth to H. A. Lande, and one-sixth to P. Adler, Pittsburg, Pa. Chalk-sharpening device. No. 947,186; Jan. 18; Sp. p. 4804; Gaz. vol. 150; p. 792.
Neumann, Julius J., assignor to Lyon & Healy, Chicago, Ill. Accordion. No. 957,514; May 10; Sp. p. 2174; Gaz. vol. 154; p. 376.

Alphabetical list of patentees—Continued.

Neumann, Max, Wiesbaden, Germany, assignor to General Chemical Company, New York, N. Y. Formic acid. No. 975,151; Nov. 8; Sp. p. 2429; Gaz. vol. 160; p. 394.
Neumann, Wilhelm, New York, N. Y. Screw-cutting-die head. No. 971,303; Sept. 27; Sp. p. 4586; Gaz. vol. 158; p. 803.
Neumeyer, Horace F., Macungie, assignor of one-half to W. K. Mohr, Allentown, Pa. Chuck. No. 966,850; Aug. 9; Sp. p. 2209; Gaz. vol. 157; p. 365.
Neumuth, Martin J., New York, N. Y. Attachment for flat-surface grinding-machines. No. 975,785; Nov. 15; Sp. p. 3783; Gaz. vol. 160; p. 637.
Neuner, Martin C., Los Angeles, Cal. Loose-leaf binder. No. 951,544; Mar. 8; Sp. p. 2196; Gaz. vol. 152; p. 382.
Neuner, Martin C., Los Angeles, Cal. Loose-leaf-binding device. No. 951,545; Mar. 8; Sp. p. 2198; Gaz. vol. 152; p. 382.
Neuner, Martin C., Los Angeles, Cal. Bookbinding. No. 951,885; Mar. 15; Sp. p. 2907; Gaz. vol. 152; p. 527.
Neuner, Martin C., Los Angeles, Cal. Reinforced-paper-making machine. No. 967,958; Aug. 23; Sp. p. 4483; Gaz. vol. 157; p. 789.
Neureuther, Andrew H., Peru, assignor to The Western Clock Manufacturing Company, La Salle, Ill. Automatic pinion-cutting machine. No. 953,752; Apr. 5; Sp. p. 141; Gaz. vol. 153; p. 27.
Neureuther, Andrew H., Peru, assignor to The Western Clock Manufacturing Company, La Salle, Ill. Automatic pinion-cutting machine. No. 953,753; Apr. 5; Sp. p. 143; Gaz. vol. 153; p. 27.
Neuschwander, John C., Dakota, Ill. Support for motors and receptacles. No. 949,197; Feb. 15; Sp. p. 2973; Gaz. vol. 151; p. 526.
Neve, William, assignor of one-half to F. W. Brodegaard, Omaha, Nebr. Tobacco-pipe. No. 961,790; June 21; Sp. p. 3199; Gaz. vol. 155; p. 574.
Neveu, Frank A., Salt Lake City, Utah. Vaginal syringe. No. 973,456; Oct. 18; Sp. p. 4277; Gaz. vol. 159; p. 728.
Neville, Asa G., Wellsburg, W. Va. Gravity-automobile. No. 958,160; May 17; Sp. p. 3732; Gaz. vol. 154; p. 631.
Neville, Harry, Los Angeles, Cal. Pneumatic-hammer support. No. 958,669; May 17; Sp. p. 4888; Gaz. vol. 154; p. 803.
Nevin, Nina C., Sewickley, Pa. Dress-shield. No. 946,766; Jan. 18; Sp. p. 3915; Gaz. vol. 150; p. 653.
Nevins, Frederick, Brooklyn, assignor to Morewood Standard Safety Devices Co., New York, N. Y. Anchor-bolt. No. 969,111; Aug. 30; Sp. p. 6956; Gaz. vol. 157; p. 1211.
New Britain Machine Company, The. (See Brown, Robert S., assignor.)
New Departure Manufacturing Company, The. (See Lynch, John F., assignor.)
New Departure Manufacturing Company, The. (See MacGuyer, Woodford R., assignor.)
New Departure Manufacturing Company, The. (See Rockwell, Albert F., assignor.)
New Departure Manufacturing Company, The. (See Rockwell, Hugh M., assignor.)
New England Electric Co., The. (See Lawrence, Harry W., assignor.) (Reissue.)
New England Refrigerator Company, The. (See Noyes, Bernice J., assignor.)
New England Watch Co., The. (See Hart, Edwin, assignor.)
New Haven Clock Company. (See Porter, Wilson E., assignor.)
New Haven Upholstering Co., The. (See Ward, Orlo P., assignor.)
New Idea Game Company. (See Sanderson, Elizabeth G., assignor.)
New Jersey Foundry and Machine Company. (See Pauli, Carl, assignor.)
New Jersey Patent Company. (See Aiken, Edward L., assignor.)
New Jersey Patent Company. (See Aylsworth, Jonas W., assignor.)
New Jersey Patent Company. (See Durand and Seeley, assignors.)
New Jersey Patent Company. (See Dyer, Frank L., assignor.)
New Jersey Patent Company. (See Edison, Thomas A., assignor.)
New Jersey Patent Company. (See Hibbard, Charles L., assignor.)
New Jersey Patent Company. (See Miller, Walter H., assignor.)
New Jersey Patent Company. (See Oliver, Henry T., assignor.)
New Jersey Patent Company. (See Sheble, Horace, assignor.)
New Jersey Patent Company. (See Weber, Peter, assignor.) (Reissue.)
New Jersey Zinc Company, The. (See Van Mater, Joseph A., assignor.)
New, Luke M., Waco, Tex. Lock-mortiser. No. 969,897; Sept. 13; Sp. p. 1631; Gaz. vol. 158; p. 281.
New Orleans Copper Works. (See Wilson and Wallbillich, assignors.)
New Process Rawhide Company. (See Grannis, Charles S., assignor.)
New Transvaal Chemical Company, The. (See Destefani, Paul, assignor.)
"New Way" Motor Company, The. (See Way, Charles H., assignor.)
New York Adding Typewriter Company. (See Hart, Frederick A., assignor.)
New York Adding Typewriter Company. (See Kingsbury, Jere G., assignor.)
New York Air Brake Company. (See Bickel, Henry F., assignor.)
New York Air Brake Company. (See Bingley, John W., assignor.)
New York Bottlers' Supplies Manufacturing Company. (See Vock, Philip, assignor.)
New York Couch Bed Company. (See Sisbower, George F., assignor.)
New York Flatiron Company, The. (See Shaffer, Frederick R., assignor.)
New York Metallic Bedstead Co. (See Bennett, Gustave, assignor.)
New York Oilless Bearing Co. (See Brewer, William J., assignor.)
New York Scaffolding Co. (See Cavanagh, Eugene M. and D. F., assignors.)
New York Steel Beam & Girder Company. (See Grey, Charles M., assignor.)
New York Yacht, Launch & Engine Company. (See Nickelson, Joseph A., assignor.)
Newark Gear Cutting Machine Company. (See Eberhardt, Elmer G., assignor.)
Newark Spring Mattress Company. (See Manchee, Wilfrid A., assignor.)
Newbauer, John, Homestead, Pa. Wrench. No. 953,346; Mar. 29; Sp. p. 5957; Gaz. vol. 152; p. 1073.
Newberry, Henry S., Cleveland, Ohio. Minnow-trap. No. 951,656; Mar. 8; Sp. p. 2428; Gaz. vol. 152; p. 420.
Newberry, Orson O., Argyle, Iowa. Metal cleat for wagon-boxes. No. 946,981; Jan. 18; Sp. p. 4416; Gaz. vol. 150; p. 726.
Newberry, Orson O., Argyle, Iowa. Fertilizer-distributer. No. 951,216; Mar. 8; Sp. p. 1515; Gaz. vol. 152; p. 273.
Newberry, Orson O., Argyle, Iowa. Wagon-box. No. 951,256; Mar. 8; Sp. p. 1601; Gaz. vol. 152; p. 286.
Newberry, Spencer B., Baybridge, Ohio, assignor of one-half to G. R. Fishburne, Charleston, S. C. Fertilizer and making the same. No. 972,567; Oct. 11; Sp. p. 2310; Gaz. vol. 159; p. 396.
Newberry, Spencer B., Sandusky, Ohio, assignor of one-half to G. R. Fishburne, Charleston, S. C. Making fertilizer. No. 978,193; Dec. 13; Sp. p. 1685; Gaz. vol. 161; p. 297.
Newbold, John P., Cape May, N. J. Target. No. 975,711; Nov. 15; Sp. p. 3633; Gaz. vol. 160; p. 611.
Newbold, Roger M., Chicago, Ill., assignor to The Adams & Westlake Company. Electric lamp. No. 954,878; Apr. 12; Sp. p. 2604; Gaz. vol. 153; p. 442.
Newbold, Roger M., Chicago, Ill., assignor to The Adams & Westlake Company. System for the generation and distribution of electric currents. No. 960,683; June 7; Sp. p. 903; Gaz. vol. 155; p. 150.
Newbold, Roger M., Chicago, Ill., assignor to The Adams & Westlake Company. Lamp-bracket. No. 979,878; Dec. 27; Sp. p. 5333; Gaz. vol. 161; p. 923.
Newchurch, Edward, and C. Bernard, Paincourtville, La. Lever stubble-shaver. No. 978,472; Dec. 13; Sp. p. 2271; Gaz. vol. 161; p. 394.
Newcomb, David L., San Diego, Cal. Voting-machine. No. 947,839; Feb. 1; Sp. p. 103; Gaz. vol. 151; p. 22.
Newcomb, David L., San Diego, Cal. Vote-registering machine. No. 947,840; Feb. 1; Sp. p. 111; Gaz. vol. 151; p. 22.
Newcomb, David L., Los Angeles, Cal. Mechanical ballot. No. 947,841; Feb. 1; Sp. p. 128; Gaz. vol. 151; p. 23.
Newcomb, David L., Los Angeles, Cal. Counting apparatus for voting-machines and for other purposes. No. 967,226; Aug. 16; Sp. p. 2997; Gaz. vol. 157; p. 518.
Newcomb, David L., Los Angeles, Cal. Vote-printing voting-machine. No. 968,070; Aug. 23; Sp. p. 4750; Gaz. vol. 157; p. 827.
Newcomb, David L., assignor of one-fourth to W. F. Parker, one-sixth to F. J. Zeehandelaar, one-sixth to G. A. Smith, and one-sixth to J. R. Townsend, Los Angeles, Cal. Car buffer-fender. No. 969,143; Aug. 30; Sp. p. 7026; Gaz. vol. 157; p. 1222.
Newcomb, David L., San Diego, and H. A. Brooks, Los Angeles, Cal.; said Brooks assignor to said Newcomb. Mechanical ballot. No. 969,718; Sept. 6; Sp. p. 1196; Gaz. vol. 158; p. 193.
Newcomb, Perl E., Hutchinson, Minn. Wheelbarrow. No. 974,909; Nov. 8; Sp. p. 1878; Gaz. vol. 160; p. 311.
Newcomer, B. H. (See Scott, Jasper, assignor.)
Newcomer, George M. (See Hornbeck, Henry S., assignor.)
Newell, Alfred T., Birmingham, Ala. Air-compressor. No. 957,084; May 3; Sp. p. 1258; Gaz. vol. 154; p. 199.
Newell, Alonzo L., Frost, Tex. Trap. No. 972,127; Oct. 4; Sp. p. 1328; Gaz. vol. 159; p. 223.
Newell, Bertram L., Boulder, Colo. Dumping-car. No. 964,175; July 12; Sp. p. 2508; Gaz. vol. 156; p. 412.

Alphabetical list of patentees—Continued.

Newell, Frank C., assignor to The F. C. Newell Mutograph Corporation, Cleveland, Ohio. Mutograph. No. 976,093; Nov. 15; Sp. p. 4378; Gaz. vol. 160; p. 743.
Newell, Peter S. H., Leonia, N. J. Illustrated book and pamphlet. No. 970,943; Sept. 20; Sp. p. 3846; Gaz. vol. 158; p. 657.
Newerf, Nicholas C., Buffalo, N. Y. Adjustable apparatus for the construction of cement buildings. No. 947,160; Jan. 18; Sp. p. 4749; Gaz. vol. 150; p. 783.
Newfield, Julius, Chicopee Falls, Mass. Dough-severing device. No. 950,727; Mar. 1; Sp. p. 578; Gaz. vol. 152; p. 90.
Newgarden, Jennie S., New York, N. Y. Window-box support. No. 964,303; July 12; Sp. p. 2775; Gaz. vol. 156; p. 457.
Newhall, Frank H., Juneau, Alaska. Boiler circulating device. No. 945,977; Jan. 11; Sp. p. 2161; Gaz. vol. 150; p. 360.
Newhall, Henry B. (See Pleister, Henry W., assignor.)
Newhall, Walter S., assignor to The Cleveland Railway Supply Company, Cleveland, Ohio. Foot-guard. No. 960,035; May 31; Sp. p. 7857; Gaz. vol. 154; p. 1319.
Newhall, Walter S., assignor to The Cleveland Railway Supply Company, Cleveland, Ohio. Rail-brace. No. 961,636; June 14; Sp. p. 2886; Gaz. vol. 155; p. 499.
Newhall, Walter S., Cleveland, and S. B. Robertson, Columbus, Ohio. Combined guard-rail and chair. No. 964,176; July 12; Sp. p. 2510; Gaz. vol. 156; p. 413.
Newland, Charles L., Merton, England. Device for drawing off measured quantities of liquids. No. 963,633; July 5; Sp. p. 1347; Gaz. vol. 156; p. 208.
Newland, Charles L., Merton, England. Clock-dial. No. 968,255; Aug. 23; Sp. p. 5165; Gaz. vol. 157; p. 890.
Newland, Clarence T., Kooskia, Idaho. Wire-stretcher. No. 947,739; Jan. 25; Sp. p. 6050; Gaz. vol. 150; p. 1008.
Newlove, Frank H., Corning, Kans. Milking-pail. No. 954,129; Apr. 5; Sp. p. 894; Gaz. vol. 153; p. 155.
Newman, Alfred C. (See McKeown, Joseph, assignor.)
Newman, Edwin, Allenwood, N. J. Chimney-top. No. 964,177; July 12; Sp. p. 2513; Gaz. vol. 156; p. 413.
Newman, Edwin A., Washington, D. C. Excavating apparatus. No. 964,999; July 19; Sp. p. 4342; Gaz. vol. 156; p. 724.
Newman, Edwin A., Washington, D. C. Tombstone. No. 965,000; July 19; Sp. p. 4350; Gaz. vol. 156; p. 725.
Newman, Erick, Ashland, Wis. Device for switching cables. No. 979,687; Dec. 27; Sp. p. 4897; Gaz. vol. 161; p. 858.
Newman, Eugene E., assignor of one-fourth to C. A. Bowersox and one-fourth to C. R. Bowersox, Bryan, Ohio. Skeleton post or tower. No. 956,146; Apr. 26; Sp. p. 5326; Gaz. vol. 153; p. 936.
Newman, Henry E., Jr., Shoshone, Idaho. Shepherd's hook. No. 965,728; July 26; Sp. p. 5902; Gaz. vol. 156; p. 1003.
Newman, Herman F., Indianapolis, Ind. Rotary distributing-nozzle or sprinkler-head. No. 974,176; Nov. 1; Sp. p. 147; Gaz. vol. 160; p. 27.
Newman, Howard H., Paterson, and J. J. Ferrick, Passaic, N. J. Lock for prepayment-meters and similar devices. No. 955,825; Apr. 19; Sp. p. 4597; Gaz. vol. 153; p. 794.
Newman, John J., Rockwood, Pa. Frogless switch. No. 956,992; May 3; Sp. p. 1071; Gaz. vol. 154; p. 168.
Newman, Julius C., Detroit, Mich., assignor to National Liquid Register Company. Cask-faucet gage. No. 977,216; Nov. 29; Sp. p. 6937; Gaz. vol. 160; p. 1179.
Newman, Lee W., La Crosse, Wis. Marking-pen. No. 946,149; Jan. 11; Sp. p. 2498; Gaz. vol. 150; p. 417.
Newman, Martin F., assignor to Wm. B. Scaife & Sons Company, Pittsburg, Pa. Fluid-feed-regulating apparatus. No. 963,382; July 5; Sp. p. 836; Gaz. vol. 156; p. 124.
Newman, Paul. (See Hoffmann, Marie W., assignor.)
Newman, Samuel, Cincinnati, Ohio. Hat. No. 975,448; Nov. 15; Sp. p. 3057; Gaz. vol. 160; p. 522.
Newman, Samuel C. (See Dwofsky, Bernard, assignor.)
Newman, Sterling P., Edgerton, Mo. Feed-trough. No. 979,026; Dec. 20; Sp. p. 3472; Gaz. vol. 161; p. 609.
Newmann, John, Brooklyn, N. Y. Roller-bearing. No. 969,763; Sept. 6; Sp. p. 1323; Gaz. vol. 158; p. 210.
Newmeyer, Alvin L., *et al.* (See Warfield, Earl P., assignor.)
Newmeyer, Edward H., Homestead, Pa. Folding umbrella. No. 963,634; July 5; Sp. p. 1349; Gaz. vol. 156; p. 209.
Newpher, Alfred H., assignor to The Adams & Westlake Company, Chicago, Ill. Window-frame. No. 964,932; July 19; Sp. p. 4209; Gaz. vol. 156; p. 702.
Newpher, Alfred H., Chicago, Ill., assignor to The Adams & Westlake Company. Window-screen. No. 971,304; Sept. 27; Sp. p. 4589; Gaz. vol. 158; p. 803.
Newpher, Alfred H., assignor to The Adams & Westlake Company, Chicago, Ill. Window-sash. No. 973,546; Oct. 25; Sp. p. 4475; Gaz. vol. 159; p. 782.
Newpher, Alfred H., Chicago, Ill., assignor to The Adams & Westlake Company. Window-sash. No. 973,547; Oct. 25; Sp. p. 4476; Gaz. vol. 159; p. 782.
Newpher, Alfred H., assignor to The Adams & Westlake Company, Chicago, Ill. Window-screen. No. 978,624; Dec. 13; Sp. p. 2625; Gaz. vol. 161; p. 447.
Newsam, Richard, Peoria, Ill., and J. A. Schwartz, Whiting, Ind. Ball-bearing door-hanger. No. 967,823; Aug. 16; Sp. p. 4211; Gaz. vol. 157; p. 720.
Newsholme, Norman R., Keighley, England. Automatic doffer for fly-spinning frames. No. 954,688; Apr. 12; Sp. p. 2128; Gaz. vol. 153; p. 373.
Newsome, Edwin, Ottawa, Ontario, Canada. Clean-out attachment for bath wastes and overflows. No. 976,593; Nov. 22; Sp. p. 5556; Gaz. vol. 160; p. 938.
Newson, Charles, Salt Lake City, Utah. Apparatus for operating elevators. No. 966,231; Aug. 2; Sp. p. 833; Gaz. vol. 157; p. 133.
Newstetter, Malcolm A., deceased, Reading, Pa.; W. M. Newstetter, administrator. Automatic electric-generating system. No. 955,984; Apr. 26; Sp. p. 4974; Gaz. vol. 153; p. 879.
Newstetter, Malcolm A., deceased, Reading, Pa.; W. M. Newstetter, administrator. Automatic electric-generation system. No. 955,985; Apr. 26; Sp. p. 4975; Gaz. vol. 153; p. 879.
Newstetter, Malcolm A., deceased, Reading, Pa.; W. M. Newstetter, administrator. Automatic electric-generation system. No. 955,986; Apr. 26; Sp. p. 4977; Gaz. vol. 153; p. 880.
Newstetter, William M., administrator. (See Newstetter, Malcolm A.)
Newton, Albert S., Providence, R. I. Combined waste-valve, overflow, and strainer. No. 953,754; Apr. 5; Sp. p. 145; Gaz. vol. 153; p. 28.
Newton, Charles L., Cincinnati, Ohio. Vending device. No. 975,887; Nov. 15; Sp. p. 3985; Gaz. vol. 160; p. 672.
Newton, Charles W., Houston, Tex. Saw attachment. No. 976,902; Nov. 29; Sp. p. 6205; Gaz. vol. 160; p. 1068.
Newton Company, The. (See Buffum and Carter, assignors.)
Newton, Emma M., New York, N. Y. Strainer. No. 959,581; May 31; Sp. p. 6831; Gaz. vol. 154; p. 1163.
Newton, Emma M., New Brighton, N. Y. Stocking. No. 962,089; June 21; Sp. p. 3861; Gaz. vol. 155; p. 676.
Newton, George T., Dover Bay, assignor to The American Multigraph Company, Cleveland, Ohio. Inking-ribbon. No. 960,036; May 31; Sp. p. 7859; Gaz. vol. 154; p. 1319.
Newton, John F., Jr., Boston, Mass. Hanger-strap or hand-hold for cars, &c. No. 947,022; Jan. 18; Sp. p. 4504; Gaz. vol. 150; p. 741.
Newton, John V., Los Angeles, Cal. Spool-holder. No. 961,637; June 14; Sp. p. 2889; Gaz. vol. 155; p. 499.
Newton, Joseph L., Winthrop, Mass. Shipping-crate. No. 979,085; Dec. 20; Sp. p. 3601; Gaz. vol. 161; p. 628.
Newton, Ralph E., Milwaukee, Wis. Reinforcement for concrete structures. No. 960,382; June 7; Sp. p. 295; Gaz. vol. 155; p. 49.
Newton, Walter M., Wyoming, Del. Treating molded articles. No. 968,591; Aug. 30; Sp. p. 5862; Gaz. vol. 157; p. 1034.
Newton, William G., assignor to The Peck Bros. & Co., New Haven, Conn. Flush-tank-operating device. No. 977,122; Nov. 29; Sp. p. 6735; Gaz. vol. 160; p. 1146.
Newton, William T., New Orleans, La. Antifriction-bearing. No. 978,392; Dec. 13; Sp. p. 2113; Gaz. vol. 161; p. 368.
Ney, Louis, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 978,926; Dec. 20; Sp. p. 3228; Gaz. vol. 161; p. 573.
Ney, Louis, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 979,991; Dec. 27; Sp. p. 5550; Gaz. vol. 161; p. 959.
Niagara Falls Ice Cream Freezer Company. (See Eldridge and Breed, assignors.)
Niagara Machine & Tool Works. (See Gansslen, Hermann, assignor.)
Niagara Musical Instrument Manufacturing Company. (See Brauer, William A., assignor.)
Nicault, Jules. (See Guéniffet, Benoit, and Nicault.)
Nice, Budd G., Ogontz, and J. L. McMichael, Philadelphia, Pa. Manufacturing bottoms or lids for boxes. No. 962,851; June 28; Sp. p. 5503; Gaz. vol. 155; p. 963.
Nice, William, Jr., Ogontz, Pa. Stair-carpet fastener. No. 953,433; Mar. 29; Sp. p. 6148; Gaz. vol. 152; p. 1103.
Nichol, Edward. (See Bradley and Nichol.)
Nichol, James, Yerington, Nev. Fork and scraper. No. 952,345; Mar. 15; Sp. p. 3798; Gaz. vol. 152; p. 679.
Nichol, James, Yerington, Nev. Loading apparatus. No. 954,328; Apr. 5; Sp. p. 1350; Gaz. vol. 153; p. 224.
Nichol, Thomas, Glen Jean, W. Va. Mining coal. No. 979,086; Dec. 20; Sp. p. 3602; Gaz. vol. 161; p. 628.
Nichol, Thomas L. (See Bradley and Nichol.)
Nicholas, Benjamin F., Renovo, Pa. Catch-basin for sewers. No. 965,832; July 26; Sp. p. 6128; Gaz. vol. 156; p. 1039.
Nicholas, Charles E., Columbus, Ohio, and W. G. Rich, assignors to Nicholas Telephone Selector Company, Rochester, N. Y. Selecting apparatus for telephone systems. No. 949,378; Feb. 15; Sp. p. 3365; Gaz. vol. 151; p. 588.
Nicholas, James F., Sullivan, Ind. Finishing-tool. No. 973,688; Oct. 25; Sp. p. 4787; Gaz. vol. 159; p. 831.

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Nicholas, Robert G., Clyde Kans. Bolt for cloth-measuring machines. No. 952,933; Mar. 22; Sp. p. 5058; Gaz. vol. 152; p. 909.
Nicholas Telephone Selector Company. (See Nicholas and Rich, assignors.)
Nicholas, William, New York, N. Y., assignor to United States Graphotype Company. Making matrix-plates for monotype-machines. No. 960,684; June 7; Sp. p. 905; Gaz. vol. 155; p. 150.
Nicholas, William, and W. Ackerman, New York, N. Y., assignors to United States Graphotype Company. Type casting and composing machine. No. 964,677; July 19; Sp. p. 3588; Gaz. vol. 156; p. 614.
Nicholas, William, and W. Ackerman, New York, N. Y., assignors to United States Graphotype Company. Type-composing machine. No. 964,678; July 19; Sp. p. 3643; Gaz. vol. 156; p. 614.
Nicholas, William, and W. Ackerman, New York, N. Y., assignors to United States Graphotype Company. Type casting and composing machine. No. 964,679; July 19; Sp. p. 3673; Gaz. vol. 156; p. 615.
Nicholas, William H. (See Wilson, Alonzo T., assignor.)
Nicholas, William W., T. H. Kane, Milwaukee, Wis., N. A. MacRae and C. D. Gano, Chicago, Ill. Measuring apparatus. No. 945,796; Jan. 11; Sp. p. 1752; Gaz. vol. 150; p. 294.
Nicholes, John H., Wedgefield, S. C. Plow. No. 949,492; Feb. 15; Sp. p. 3590; Gaz. vol. 151; p. 626.
Nicholls, Garl, McFall, Mo. Pump. No. 978,626; Dec. 13; Sp. p. 2627; Gaz. vol. 161; p. 448.
Nicholls, George T., Providence, R. I. Knitting-machine. No. 956,820; May 3; Sp. p. 700; Gaz. vol. 154; p. 110.
Nicholls, Henry D., Philadelphia, Pa. Grinding and sharpening machine. No. 969,649; Sept. 6; Sp. p. 1057; Gaz. vol. 158; p. 170.
Nicholls, John S. C. (See Merrill and Nicholls.)
Nicholls, Moses, Sterling, Colo., assignor to Sax-Nicholls-Cohn Company, Ottumwa, Iowa. Gage for lock-mortising bits. No. 971,627; Oct. 4; Sp. p. 252; Gaz. vol. 159; p. 45.
Nicholls, Walter H., Boston, Mass. Device for stropping razor-blades. No. 948,673; Feb. 8; Sp. p. 1887; Gaz. vol. 151; p. 325.
Nicholls, William T., Wellsburg, W. Va. Apparatus for forming glass tiles. No. 952,272; Mar. 15; Sp. p. 3646; Gaz. vol. 152; p. 655.
Nicholls, William T., Wellsburg, W. Va. Apparatus for manufacturing tiles. No. 962,519; June 28; Sp. p. 4819; Gaz. vol. 155; p. 848.
Nichols, Aaron S., New York, N. Y. Factory spool-holder. No. 945,188; Jan. 4; Sp. p. 372; Gaz. vol. 150; p. 62.
Nichols, Aaron S., New York, N. Y. Machine for applying veneers. No. 965,927; Aug. 2; Sp. p. 164; Gaz. vol. 157; p. 28.
Nichols, Aaron S., New York, N. Y. Apparatus for oiling cauls. No. 971,397; Sept. 27; Sp. p. 4769; Gaz. vol. 158; p. 834.
Nichols, Abner W., assignor to Cushnoc Motor Company, Augusta, Me. Internal-combustion engine. No. 956,405; Apr. 26; Sp. p. 5890; Gaz. vol. 153; p. 1024.
Nichols, Charles A., Amarillo, Tex. Egg-beater. No. 946,521; Jan. 11; Sp. p. 3412; Gaz. vol. 150; p. 547.
Nichols, Charles B., Rockport, Ohio. Vehicle-wheel. No. 956,724; May 3; Sp. p. 480; Gaz. vol. 154; p. 77.
Nichols Copper Co. (See Herreshoff, John B. F., assignor.)
Nichols, David, Shipley, assignor to G. Hodgson Limited, Bradford, England. Heald and shuttle-box operating mechanism of looms. No. 978,329; Dec. 13; Sp. p. 1983; Gaz. vol. 161; p. 345.
Nichols, Frank L., Stamford, Conn., assignor of one-half to M. Herrington, Arlington, N. J. Piston. No. 953,389; Mar. 29; Sp. p. 6062; Gaz. vol. 152; p. 1088.
Nichols, Frank L., assignor to Nichols Quadruple-Traction Vehicle and Power Company, Stamford, Conn. Governor. No. 962,163; June 21; Sp. p. 4044; Gaz. vol. 155; p. 702.
Nichols, George V., assignor to Tilden-Thurber Company, Providence, R. I. Garment-hanger. No. 976,094; Nov. 15; Sp. p. 4391; Gaz. vol. 160; p. 744.
Nichols, Harvey, Jackson, Mich. Seed-extracting machine. No. 960,577; June 7; Sp. p. 693; Gaz. vol. 155; p. 114.
Nichols, Henry B., Philadelphia, Pa. Grinding and surfacing. No. 960,188; May 31; Sp. p. 8139; Gaz. vol. 154; p. 1369.
Nichols, Henry B., Philadelphia, Pa. Grinding and surfacing. No. 961,523; June 14; Sp. p. 2639; Gaz. vol. 155; p. 461.
Nichols, Henry B., Philadelphia, Pa. Grinding-machine. No. 977,324; Nov. 29; Sp. p. 7138; Gaz. vol. 160; p. 1215.
Nichols, Henry B., Philadelphia, Pa. Grinding-wheel. No. 977,325; Nov. 29; Sp. p. 7142; Gaz. vol. 160; p. 1216.
Nichols, Henry B., Philadelphia, Pa. Automatic calipering attachment. No. 980,164; Dec. 27; Sp. p. 5957; Gaz. vol. 161; p. 1017.
Nichols, Horace G., near Ymir, British Columbia, Canada. Separating liquids from solids. No. 958,272; May 17; Sp. p. 3959; Gaz. vol. 154; p. 667.
Nichols, Isaac W. (See Nichols, Katherine and I. W.)
Nichols, Josiah, Lima, Ohio. Bee-trap. No. 945,407; Jan. 4; Sp. p. 877; Gaz. vol. 150; p. 136.
Nichols, Josiah, Lima, Ohio. Friction-buffer. No. 945,473; Jan. 4; Sp. p. 1004; Gaz. vol. 150; p. 157.
Nichols, Katherine and I. W., Newark, N. J.; said I. W. Nichols assignor to said Katherine Nichols. Telephone-receiver. No. 966,467; Aug. 9; Sp. p. 1316; Gaz. vol. 157; p. 235.
Nichols, L T, and H. E. Skeels, Rochester, N. Y. Egg-crate. No. 968,592; Aug. 30; Sp. p. 5863; Gaz. vol. 157; p. 1034.
Nichols, Lewis A., Chicago, Ill. Paper-folder. No. 946,393; Jan. 11; Sp. p. 3123; Gaz. vol. 150; p. 503.
Nichols, Louis C., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Transformer-case construction. No. 949,086; Feb. 15; Sp. p. 2752; Gaz. vol. 151; p. 489.
Nichols, Orson P., Warren, Pa. Bone-black furnace. No. 978,625; Dec. 13; Sp. p. 2625; Gaz. vol. 161; p. 448.
Nichols Quadruple-Traction Vehicle and Power Company. (See Nichols, Frank L., assignor.)
Nichols, Samuel R., Settlement, Ark. Rotary engine. No. 964,933; July 19; Sp. p. 4209; Gaz. vol. 156; p. 702.
Nichols, Thomas, assignor of one-half to L. G. McKnight, Gardner, Mass. Sand-wheel. No. 946,920; Jan. 18; Sp. p. 4307; Gaz. vol. 150; p. 707.
Nichols, Thomas, assignor of one-half to L. G. McKnight, Gardner, Mass. Machine for smoothing, polishing, filing, &c. No. 947,023; Jan. 18; Sp. p. 4506; Gaz. vol. 150; p. 742.
Nichols, Thomas, assignor of one-half to L. G. McKnight, Gardner, Mass. Sanding-machine. No. 957,515; May 10; Sp. p. 2174; Gaz. vol. 154; p. 376.
Nichols, Thomas W., Chicago, Ill. Composition of matter for making soft soap. No. 964,538; July 19; Sp. p. 3284; Gaz. vol. 156; p. 564.
Nichols, Warren, Deerhead, N. Y. Sled-brake. No. 948,651; Feb. 8; Sp. p. 1848; Gaz. vol. 151; p. 318.
Nichols, Wesley G., Chicago, Ill., assignor of one-half to American Brake Shoe & Foundry Company, Jersey City, N. J. Safe. No. 960,189; May 31; Sp. p. 8142; Gaz. vol. 154; p. 1369.
Nichols, William F., Chicago, Ill. Vibration-arrester. No. 949,962; Feb. 22; Sp. p. 4595; Gaz. vol. 151; p. 820.
Nichols, William P., Tucson, Ariz. Form for making continuous concrete culverts. No. 966,044; Aug. 2; Sp. p. 437; Gaz. vol. 157; p. 70.
Nicholson, Charles A. (See Hubbard, Lucius S., assignor.)
Nicholson, Harry H., Evanston, Ill. Cable-support for terminal or junction boxes. No. 948,674; Feb. 8; Sp. p. 1890; Gaz. vol. 151; p. 326.
Nicholson, James H., New York, N. Y. Wall-furring. No. 965,595; July 26; Sp. p. 5625; Gaz. vol. 156; p. 957.
Nicholson, John F., Somerset, Pa. Nut-lock. No. 960,999; June 7; Sp. p. 1533; Gaz. vol. 155; p. 256.
Nicholson, John S. A., assignor of one-third to W. N. Hatch, Hornell, N. Y. Match-safe. No. 948,017; Feb. 1; Sp. p. 489; Gaz. vol. 151; p. 79.
Nicholson, Linwood B., Dickerson, Md. Cutting-board attachment. No. 951,022; Mar. 1; Sp. p. 1147; Gaz. vol. 152; p. 187.
Nicholson, Lloyd C., Buffalo, N. Y. Insulator-protecting apparatus. No. 954,329; Apr. 5; Sp. p. 1351; Gaz. vol. 153; p. 224.
Nicholson, Lloyd C., Buffalo, N. Y. Circuit-controlling apparatus. No. 959,787; May 31; Sp. p. 7249; Gaz. vol. 154; p. 1230.
Nicholson, Lloyd C., Buffalo, N. Y. Circuit-controlling apparatus. No. 959,788; May 31; Sp. p. 7258; Gaz. vol. 154; p. 1231.
Nicholson, Lloyd C., Buffalo, N. Y. Insulator-protecting apparatus. No. 966,583; Aug. 9; Sp. p. 1614; Gaz. vol. 157; p. 275.
Nicholson, Lloyd C., Buffalo, N. Y. Protecting apparatus for insulators. No. 966,584; Aug. 9; Sp. p. 1616; Gaz. vol. 157; p. 275.
Nicholson, Marcus D., assignor of one-half to J. G. Mount, Philadelphia, Pa. Oven turn-table. No. 955,095; Apr. 12; Sp. p. 3019; Gaz. vol. 153; p. 512.
Nicholson, Robert J., Chicago, Ill. Loose-leaf binder. No. 979,087; Dec. 20; Sp. p. 3603; Gaz. vol. 161; p. 628.
Nicholson, Samuel L., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Speed-regulator for winding-rolls. No. 947,344; Jan. 25; Sp. p. 5210; Gaz. vol. 150; p. 877.
Nicholson, Thomas J., Kingston, Ontario, Canada. Pipe-wrench. No. 977,896; Dec. 6; Sp. p. 1032; Gaz. vol. 161; p. 164.
Nickel, Franz F., East Orange, N. J., assignor to Henry R. Worthington, New York, N. Y. Steam-pump. No. 945,578; Jan. 4; Sp. p. 1233; Gaz. vol. 150; p. 191.
Nickell, Kels P., Saratoga, Wyo. Ditching-plow. No. 973,689; Oct. 25; Sp. p. 4788; Gaz. vol. 159; p. 831.
Nickell, Madison C., Grand Rivers, Ky. Fruit-gatherer. No. 948,579; Feb. 8; Sp. p. 1685; Gaz. vol. 151; p. 294.
Nickelson, Joseph A., New York, assignor to New York Yacht, Launch & Engine Company, Morris Heights, N. Y. Internal-combustion engine. No. 966,948; Aug. 9; Sp. p. 2403; Gaz. vol. 157; p. 395.

Alphabetical list of patentees—Continued.

Nickens, Norman, Upper Montclair, N. J. Circular handsaw. No. 966,045; Aug. 2; Sp. p. 438; Gaz. vol. 157; p. 70.

Nickerson, Daniel S. (See Nickerson, George C., assignor.)

Nickerson, George C., assignor of one-half to D. S. Nickerson, Brewer, Me. Caster. No. 970,386; Sept. 13; Sp. p. 2639; Gaz. vol. 158; p. 445.

Nickerson, Hugh N., and W. J. Cousins, Pontiac, Mich. Film-mending device. No. 962,381; June 21; Sp. p. 4484; Gaz. vol. 155; p. 774.

Nickerson, William E., Cambridge, Mass. Grinding-machine. No. 971,860; Oct. 4; Sp. p. 740; Gaz. vol. 159; p. 129.

Nickerson, William E., Cambridge, Mass. Grinding-machine. No. 971,861; Oct. 4; Sp. p. 746; Gaz. vol. 159; p. 130.

Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Tempering. No. 971,628; Oct. 4; Sp. p. 253; Gaz. vol. 159; p. 45.

Nickson, Eliott E., Philadelphia, assignor to The National Fire Proofing Company, Pittsburg, Pa. Reinforcing structure for concrete. No. 965,729; July 26; Sp. p. 5904; Gaz. vol. 156; p. 1004.

Nickum, Emma, Philadelphia, Pa. Fly-paper holder. No. 961,890; June 21; Sp. p. 3436; Gaz. vol. 155; p. 608.

Nickum, George S., Los Angeles, Cal. Keyhole-lock. No. 961,250; June 14; Sp. p. 2044; Gaz. vol. 155; p. 369.

Nicola, Peter W. (See Tarnawski, Peter F., assignor.)

Nicolai, Ludwig J. F., assignor to "Phateco" Gesellschaft mit beschränkter Haftung, Dresden, Germany. Instrument for administering powder and other substances. No. 949,302; Feb. 15; Sp. p. 3188; Gaz. vol. 151; p. 562.

Nicolls, Robert W., and J. Bogum, Baltimore, Md. Device for the extraction of spirits from used barrels and casks. No. 950,512; Mar. 1; Sp. p. 107; Gaz. vol. 152; p. 18.

Nidermaier, Lena R., Abingdon, Va. Stick-horse. No. 953,755; Apr. 5; Sp. p. 147; Gaz. vol. 153; p. 28.

Niditch, Isadore, Dorchester, Mass., assignor to American Fog Signal Company, Pittsburg, Pa. Compound for railway-signal fusees. No. 954,330; Apr. 5; Sp. p. 1355; Gaz. vol. 153; p. 224.

Niditch, Isadore, Dorchester, Mass., assignor to American Fog Signal Company, Pittsburg, Pa. Railway signal-fusee. No. 955,671; Apr. 19; Sp. p. 4284; Gaz. vol. 153; p. 741.

Nied, Lewis W., Akron, Ohio. Plant-support. No. 959,789; May 31; Sp. p. 7266; Gaz. vol. 154; p. 1231.

Niederée, Henry C., Kerhonkson, N. Y. Non-refillable bottle. No. 963,926; July 12; Sp. p. 1996; Gaz. vol. 156; p. 328.

Niedermayer, Stefan. (See Schmelczer, Niedermayer, and Dirner.)

Niedermayr, Georg, Hattersheim-in-the-Taunus, assignor to A. V. Rowley, Frankfort-on-the-Main, Germany. Two-thread overedge sewing-machine. No. 974,910; Nov. 8; Sp. p. 1879; Gaz. vol. 160; p. 311.

Niedermeyer, Arthur, and R. Bernhard, Milwaukee, Wis., assignors to Power and Mining Machinery Company. Crusher. No. 960,231; May 31; Sp. p. 8226; Gaz. vol. 154; p. 1384.

Niedermeyer, Arthur, and R. Bernhard, Milwaukee, Wis., assignors to Power and Mining Machinery Company. Crusher. No. 960,232; May 31; Sp. p. 8229; Gaz. vol. 154; p. 1385.

Niedersächsische Papierindustrie G. m. b. H. (See Severin, Conrad, assignor.)

Niedringhaus, Alexander, St. Louis, Mo. Finishing galvanized sheet metal. No. 946,459; Jan. 11; Sp. p. 3277; Gaz. vol. 150; p. 526.

Niedringhaus, Alexander, St. Louis, Mo. Galvanizing apparatus. No. 969,392; Sept. 6; Sp. p. 514; Gaz. vol. 158; p. 82.

Nielsen, Catherine, *et al.* (See Geier, James, assignor.)

Nielsen, Christian, Chicago, Ill. Elevator-gate. No. 979,027; Dec. 20; Sp. p. 3473; Gaz. vol. 161; p. 609.

Nielsen, Ernest A., and F. C. Petersen, East Boston, Mass. Stamp-vending machine. No. 969,973; Sept. 13; Sp. p. 1798; Gaz. vol. 158; p. 305.

Nielsen, Georg M. C., assignor, by mesne assignments, to United Cork and Seal Company, Millis, Mass. Bottle-sealing apparatus. No. 965,535; July 26; Sp. p. 5496; Gaz. vol. 156; p. 937.

Nielsen, Iver, New Rochelle, N. Y. Vacuum-cleaner. No. 973,292; Oct. 18; Sp. p. 3929; Gaz. vol. 159; p. 672.

Nielsen, Jens, Cedar Falls, Iowa. Rotary engine. No. 947,670; Jan. 25; Sp. p. 5931; Gaz. vol. 150; p. 986.

Nielsen, Jens, Copenhagen, Denmark. Milking-machine. No. 978,473; Dec. 13; Sp. p. 2273; Gaz. vol. 161; p. 395.

Nielsen, Jens, Copenhagen, and S. A. C. Kristensèn, Sotorp per Valby, near Copenhagen, Denmark. Instrument for indicating the temperature of cooking articles. No. 945,978; Jan. 11; Sp. p. 2163; Gaz. vol. 150; p. 360.

Nielsen, Jens C. (See Sivertsen and Nielsen.)

Nielsen, Laurits M., Boston, Mass., assignor, by mesne assignments, to Nielsen Mailing Machinery Company, Erie, Pa. Machine for sealing and stamping envelops, &c. No. 964,448; July 12; Sp. p. 3039; Gaz. vol. 156; p. 502.

Nielsen, Laurits M., Boston, Mass., assignor, by mesne assignments, to Nielsen Mailing Machinery Company, Erie, Pa. Machine for addressing and assorting newspapers, &c. No. 964,449; July 12; Sp. p. 3053; Gaz. vol. 156; p. 502.

Nielsen, Laurits M., Boston, Mass., assignor to Nielsen Mailing Machinery Company, Erie, Pa. Addressing-machine. No. 978,627; Dec. 13; Sp. p. 2628; Gaz. vol. 161; p. 448.

Nielsen, Laurits M., and H. Weller, Boston, Mass., assignors, by mesne assignments, to Nielsen Mailing Machinery Company, Erie, Pa. Machine for stamping and sealing envelops. No. 978,474; Dec. 13; Sp. p. 2277; Gaz. vol. 161; p. 395.

Nielsen, Laurits M., and H. Weller, Boston, Mass., assignors, by mesne assignments, to Nielsen Mailing Machinery Company, Erie, Pa. Stamp-affixing machine. No. 978,475; Dec. 13; Sp. p. 2287; Gaz. vol. 161; p. 395.

Nielsen, Ludvig H., West Liberty, and J. F. Barnard, Allegheny, assignors to L. H. Nielson Co., Pittsburg, Pa. Distributing-board. No. 968,071; Aug. 23; Sp. p. 4753; Gaz. vol. 157; p. 827.

Nielsen Mailing Machinery Company. (See Nielsen, Laurits M., assignor.)

Nielsen Mailing Machinery Company. (See Nielsen and Weller, assignors.)

Nielsen, Marinus, San Francisco, Cal. Fire-cracker holder. No. 962,972; June 28; Sp. p. 5718; Gaz. vol. 155; p. 1002.

Nielsen, Paul, *et al.* (See Cottrell, Thomas M., assignor.)

Nielsen, Rasmus, Troy, N. Y., and J. Imirie, Washington, D. C. Egg-beater. No. 955,672; Apr. 19; Sp. p. 4285; Gaz. vol. 153; p. 741.

Nielsen, Rasmus P., Tranebjerg, near Samsö, Denmark. Means for the propulsion of vessels. No. 957,622; May 10; Sp. p. 2385; Gaz. vol. 154; p. 413.

Nielsen, Stefanus, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 947,253; Jan. 25; Sp. p. 4953; Gaz. vol. 150; p. 843.

Nielsen, Stefanus, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 957,995; May 17; Sp. p. 3251; Gaz. vol. 154; p. 571.

Nielsen, Stefanus, New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 964,878; July 19; Sp. p. 4100; Gaz. vol. 156; p. 683.

Nielsen, Waldermar F., Junction City, Oreg. Cultivator. No. 962,520; June 28; Sp. p. 4820; Gaz. vol. 155; p. 848.

Nielson, Christopher, Cisco, Cal. Safety-envelop. No. 952,934; Mar. 22; Sp. p. 5060; Gaz. vol. 152; p. 909.

Nielson, Henry, Cleveland Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Holder for lathe-tools. No. 966,585; Aug. 9; Sp. p. 1620; Gaz. vol. 157; p. 276.

Nielson, Samuel A., Madison, Wis. Means for printing photographs. No. 959,249; May 24; Sp. p. 6139; Gaz. vol. 154; p. 1026.

Nieman, William A., Milwaukee, Wis. Horseshoe. No. 965,217; July 26; Sp. p. 4778; Gaz. vol. 156; p. 826.

Niemand, Daniel, Fort Seward, Alaska. Toilet-box. No. 945,189; Jan. 4; Sp. p. 373; Gaz. vol. 150; p. 63.

Niemann, Clemens H., Cincinnati, Ohio. Alarm for glue-heaters. No. 958,424; May 17; Sp. p. 4410; Gaz. vol. 154; p. 722.

Niemann, Edward F. (See Niemann, William L., assignor.)

Niemann, Frederick A., assignor to Comptograph Company, Chicago, Ill. Motor-driven adding-machine. No. 976,390; Nov. 22; Sp. p. 5116; Gaz. vol. 160; p. 868.

Niemann, Henry, New York, N. Y. Time-controlled gas and electric cut-off. No. 956,147; Apr. 26; Sp. p. 5328; Gaz. vol. 153; p. 936.

Niemann, William C., Waltz, Mich. Automobile-sled. No. 954,130; Apr. 5; Sp. p. 895; Gaz. vol. 153; p. 156.

Niemann, William L., assignor of one-half to E. F. Niemann, Mount Olive, Ill. Setting and brood coop. No. 979,992; Dec. 27; Sp. p. 5554; Gaz. vol. 161; p. 960.

Niemeyer, Herman H., A. E. Lehmann, and A. Sinskey, St. Charles, Mo. Sleeping-car. No. 964,539; July 19; Sp. p. 3285; Gaz. vol. 156; p. 564.

Niemeyer, Herman H., A. E. Lehmann, and A. Sinskey, St. Charles, Mo. Sleeping-car. No. 964,540; July 19; Sp. p. 3291; Gaz. vol. 156; p. 565.

Niemeyer, Herman H., A. E. Lehmann, and A. Sinskey, St. Charles, Mo. Metallic car construction. No. 964,541; July 19; Sp. p. 3296; Gaz. vol. 156; p. 565.

Niemeyer, William H. (See Godman and Niemeyer.)

Niemie, Nels A., McKenzie, N. D. Clevis. No. 975,786; Nov. 15; Sp. p. 3784; Gaz. vol. 160; p. 637.

Nienstedt, Henry. (See Morison, Alexander, assignor.)

Nientimp, George C., Erie, Pa. Sign. No. 947,699; Jan. 25; Sp. p. 5977; Gaz. vol. 150; p. 995.

Nier, Harry L., Chicago, Ill. Cuspidor. No. 958,524; May 17; Sp. p. 4612; Gaz. vol. 154; p. 757.

Nierth & Helbig. (See Helbig, Robert, assignor.)

Niesz, Frank B., assignor to The Bucher & Gibbs Plow Company, Canton, Ohio. Disk harrow. (Reissue.) No. 13,163; Nov. 1; Sp. p. 1569; Gaz. vol. 160; p. 242.

Nigg, John R. (See Suess, Charles F. W., assignor.)

Nihill, Peter C., San Francisco, Cal. Table. No. 962,659; June 28; Sp. p. 5119; Gaz. vol. 155; p. 894.

Alphabetical list of patentees—Continued.

Niklis, Joe. (See Taylor, Robert T., assignor.)
Nikonow, John P., assignor to Schroeder Headlight Company, Evansville, Ind. Governor. No. 948,791; Feb. 8; Sp. p. 2150; Gaz. vol. 151; p. 366.
Nikonow, John P., assignor to Schroeder Headlight Company, Evansville, Ind. Framework for turbines and generators. No. 953,487; Mar. 29; Sp. p. 6261; Gaz. vol. 152; p. 1123.
Nikonow, John P., Evansville, Ind., assignor to The Westinghouse Machine Company. Turbine and regulating means therefor. (Reissue.) No. 13,153; Sept. 20; Sp. p. 3981; Gaz. vol. 158; p. 681.
Niland, Andrew. (See Schuller and Niland.)
Niles-Bement-Pond Company. (See Andrew, Cecil D., assignor.)
Niles-Bement-Pond Company. (See Draeseke, Charles G., assignor.)
Niles-Bement-Pond Company. (See Greenleaf, George E., assignor.)
Niles-Bement-Pond Company. (See Hagman, William J., assignor.)
Niles-Bement-Pond Company. (See Hagman and Wray, assignors.)
Niles-Bement-Pond Company. (See Keefer, Samuel H., assignor.)
Niles-Bement-Pond Company. (See Reiss, George T., assignor.)
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Niles-Bement-Pond Company. (See Sears and Ruch, assignors.)
Niles-Bement-Pond Company. (See Stebbins and Sears, assignors.)
Niles-Bement-Pond Company. (See Thompson, Frederick S., assignor.)
Niles-Bement-Pond Company. (See Wood, Augustus, assignor.)
Niles-Bement-Pond Company. (See Wray, Edward H., assignor.)
Niles, Glenn H., Newark, N. J. Roasting-furnace. No. 945,041; Jan. 4; Sp. p. 67; Gaz. vol. 150; p. 13.
Niles, Walter L. C., Saugus, Mass. Relasting-jack. No. 966,851; Aug. 9; Sp. p. 2213; Gaz. vol. 157; p. 364.
Nilsen, Ernst A., Christiania, Norway. Water-turbine. No. 958,670; May 17; Sp. p. 4891; Gaz. vol. 154; p. 803.
Nilson, Arvid, assignor to Wahl-Henius Institute of Fermentology, Chicago, Ill. Manufacture of artificial rubber. No. 964,304; July 12; Sp. p. 2776; Gaz. vol. 156; p. 458.
Nilson, Arvid, assignor to Wahl-Henius Institute of Fermentology, Chicago, Ill. Manufacture of a food product from cereal sprouts. No. 976,488; Nov. 22; Sp. p. 5329; Gaz. vol. 160; p. 903.
Nilson, Arvid, assignor to Wahl-Henius Institute of Fermentology, Chicago, Ill. Hop-extraction process. No. 978,476; Dec. 13; Sp. p. 2292; Gaz. vol. 161; p. 396.
Nilson, Axel H., and M. Olson, Bridgeport, Conn., assignors to The Premium Glass Company, Coffeyville, Kans. Wire-bending machine. No. 969,488; Sept. 6; Sp. p. 711; Gaz. vol. 158; p. 113.
Nilson, Lars G., Hoboken, N. J., assignor of one-half to W. B. Strang, New York, N. Y. Puppet-valve for heat-engines. No. 958,759; May 24; Sp. p. 5086; Gaz. vol. 154; p. 859.
Nilson, Nils, Wayzata, Minn. Scale. No. 946,767; Jan. 18; Sp. p. 3916; Gaz. vol. 150; p. 653.
Nilson, Nils, Wayzata, Minn. Scale. No. 947,558; Jan. 25; Sp. p. 5702; Gaz. vol. 150; p. 947.
Nilson, Nils, Wayzata, Minn. Scale. No. 948,705; Feb. 8; Sp. p. 1962; Gaz. vol. 151; p. 336.
Nilson, Nils, Wayzata, Minn. Weighing-scale. No. 953,390; Mar. 29; Sp. p. 6063; Gaz. vol. 152; p. 1089.
Nilson, Nils A., assignor to A. Rosenqvist, New York, N. Y. Trip-clamp. No. 967,227; Aug. 16; Sp. p. 3000; Gaz. vol. 157; p. 519.
Nilsson, Carl E., New York, N. Y. Light-projecting apparatus. No. 965,401; July 26; Sp. p. 5179; Gaz. vol. 156; p. 889.
Nilsson, John W., Balfour, N. D. Attachment for telephones. No. 955,190; Apr. 19; Sp. p. 3215; Gaz. vol. 153; p. 577.
Nilsson, John W., Balfour, N. D. Attachment for telephones. No. 972,399; Oct. 11; Sp. p. 1913; Gaz. vol. 159; p. 336.
Nilsson, Martin, *et al.* (See Levey, Thomas J., assignor.)
Nilsson, Martin, *et al.* (See Meyers, Frederick B., assignor.)
Nims, Alvin F., Philadelphia, Pa. Mixing-machine. No. 977,897; Dec. 6; Sp. p. 1033; Gaz. vol. 161; p. 164.
Nimz, William E. (See Oldfield and Nimz.)
Ninde, Mary C., Fort Wayne, Ind. Strap for surgical bandages, corsets, &c. No. 967,547; Aug. 16; Sp. p. 3655; Gaz. vol. 157; p. 628.
Ninfeldt, Emil, South St. Paul, Minn. Baling-press. No. 963,383; July 5; Sp. p. 837; Gaz. vol. 156; p. 124.
Nino, Baptiste, New York, N. Y. Baking-oven. No. 975,272; Nov. 8; Sp. p. 2694; Gaz. vol. 160; p. 435.
Nisbett, Robert M., assignor of one-half to W. P. Crowley, San Francisco, Cal. Railway-car. No. 957,363; May 10; Sp. p. 1870; Gaz. vol. 154; p. 325.
Nissen, Bjarne, Christiania, Norway. Drum for malting or drying grain or the like. No. 951,835; Mar. 15; Sp. p. 2793; Gaz. vol. 152; p. 510.
Nissen Engineering Company, The. (See Nissen, Peter N., assignor.)
Nissen, Nikolaus A., Omaha, Nebr. Collar attachment for harness. No. 973,293; Oct. 18; Sp. p. 3930; Gaz. vol. 159; p. 673.
Nissen, Peter N., Los Angeles, Cal., assignor to The Nissen Engineering Company. Ore-stamp-mill mortar. No. 945,135; Jan. 4; Sp. p. 257; Gaz. vol. 150; p. 45.
Nistle, George W., North Muskegon, Mich., assignor of one-third to E. W. Brooks and one-third to R. L. Gifford, Chicago, Ill. Pressure-equalizing mechanism for cylinders. No. 957,241; May 10; Sp. p. 1605; Gaz. vol. 154; p. 283.
Nistle, George W., Muskegon, Mich., and R. L. Gifford, Chicago, Ill. Fluid-circulating apparatus. No. 971,920; Oct. 4; Sp. p. 878; Gaz. vol. 159; p. 151.
Nitch, Frank O., Cleveland, Ohio. Clothes-line holder. No. 945,579; Jan. 4; Sp. p. 1236; Gaz. vol. 150; p. 192.
Nitczhe, Richard A., Chicago, Ill. Screen. No. 949,362; Feb. 15; Sp. p. 3325; Gaz. vol. 151; p. 583.
Nitritfabrik Aktiengesellschaft. (See Mechlenburg, Hermann, assignor.)
Nix, James L., Homer City, Pa. Heating device for incubators. No. 964,680; July 19; Sp. p. 3700; Gaz. vol. 156; p. 615.
Nix, John E., assignor of one-half to T. O. Fauber, De Sota, Mo. Beet-harvesting machine. No. 956,821; May 3; Sp. p. 704; Gaz. vol. 154; p. 110.
Nix, Joshua J. (See Frost and Nix.)
Nix, Manning L., Oklahoma, Okla. Cotton-cultivator. No. 977,534; Dec. 6; Sp. p. 273; Gaz. vol. 161; p. 40.
Nixon, Arthur, Rusholme, Manchester, England. Bush for tap-holes of casks, barrels, jars, or other vessels. No. 948,566; Feb. 8; Sp. p. 1661; Gaz. vol. 151; p. 290.
Nixon, Byron H., *et al.* (See Tingley, Lloyd M., assignor.)
Nixon, George W., assignor to Nixon Mining Drill Co., Chattanooga, Tenn. Mining-drill. No. 953,855; Apr. 5; Sp. p. 349; Gaz. vol. 153; p. 62.
Nixon, George W., assignor to Nixon Mining Drill Co., Chattanooga, Tenn. Mining-drill. No. 953,969; Apr. 5; Sp. p. 560; Gaz. vol. 153; p. 101.
Nixon, George W., assignor to Nixon Mining Drill Co., Chattanooga, Tenn. Mining-drill thread-box and support. No. 971,467; Sept. 27; Sp. p. 4891; Gaz. vol. 158; p. 856.
Nixon, Harry L., *et al.* (See Mitchell, Charles E., assignor.)
Nixon, James B., St. Louis, Mo. Inkstand. No. 951,764; Mar. 8; Sp. p. 2640; Gaz. vol. 152; p. 456.
Nixon, James R., assignor to G. L. Martin, New Orleans, La. Game. No. 960,190; May 31; Sp. p. 8146; Gaz. vol. 154; p. 1370.
Nixon Mining Drill Co. (See Nixon, George W., assignor.)
Nixon, Thomas, Santa Barbara, Cal. Wave-motor. No. 978,628; Dec. 13; Sp. p. 2636; Gaz. vol. 161; p. 449.
Noack, Carl O., Stamford, Conn. Means for adjusting and locking door-knobs on spindles. No. 951,836; Mar. 15; Sp. p. 2795; Gaz. vol. 152; p. 510.
Noack, Gerhard, assignor to The Firm of M. Schlesinger, Berlin, Germany. Flat toy figure. No. 962,578; June 28; Sp. p. 4956; Gaz. vol. 155; p. 868.
Noad, Arthur C., London, assignor of one-third to T. T. Russell, Liverpool, England. Incandescent gas-lamp. No. 978,477; Dec. 13; Sp. p. 2294; Gaz. vol. 161; p. 396.
Noad, James, East Ham, assignor of one-half to E. J. Townsend, London, England. Treatment of hydrocarbon oils and the like. No. 971,468; Sept. 27; Sp. p. 4892; Gaz. vol. 158; p. 857.
Noah, William J. (See Groom, McFall, and Noah.)
Noakes, Levi L., Rogers, Ark. Whip-lock and robe-fastener. No. 955,535; Apr. 19; Sp. p. 3958; Gaz. vol. 153; p. 695.
Nobel's Explosives Company. (See Hodge, Howard D., assignor.)
Nobis, Curtis A., assignor of four-fifths to O. K. Garrett, J. I. Parker, H. Jones, and C. Beard, Barry, Ill. Water-power plant. No. 963,241; July 5; Sp. p. 538; Gaz. vol. 156; p. 76.
Noble, Charles H. (See Montague, Judd W., assignor.)
Noble, Donald, Bridgeport, Conn. Friction-clutch. No. 950,053; Feb. 22; Sp. p. 4846; Gaz. vol. 151; p. 853.
Noble, Donald, Bridgeport, Conn. Machine for covering or insulating wire with yarn or its equivalent. No. 965,928; Aug. 2; Sp. p. 166; Gaz. vol. 157; p. 28.
Noble, Donald, Bridgeport, Conn. Machine for covering or insulating wire with yarn or its equivalent. No. 970,098; Sept. 13; Sp. p. 2055; Gaz. vol. 158; p. 349.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Cloth-presser for sewing-machines. No. 954,990; Apr. 12; Sp. p. 2826; Gaz. vol. 153; p. 479.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabethport, N. J. Crank hemstitch embroidering-machine. No. 971,140; Sept. 27; Sp. p. 4261; Gaz. vol. 158; p. 750.
Noble, Edward E. (See Wallau and Noble.)
Noble, George H. (See Merritt and Noble.)

Alphabetical list of patentees—Continued.

Noble, Harrison B., Heyworth, Ill. Automatic self-closing railway switch mechanism. No. 959,582; May 31; Sp. p. 6832; Gaz. vol. 154; p. 1163.

Noble, Harrison T., Togo, Okla. Cotton-picker. No. 947,559; Jan. 25; Sp. p. 5704; Gaz. vol. 150; p. 947.

Noble, James A., assignor to The Noble & Wood Machine Company, Hoosick Falls, N. Y. Paper-making machinery. No. 969,800; Sept. 13; Sp. p. 1411; Gaz. vol. 158; p. 247.

Noble, Jay, deceased, assignor of one-half to C. W. Chamberlain, administrator, St. Louis, Mo. Telephone-receiver. No. 953,970; Apr. 5; Sp. p. 563; Gaz. vol. 153; p. 102.

Noble, Ralph E., assignor to Morgan-Gardner Electric Company, Chicago, Ill. Mining-machine bit. No. 976,835; Nov. 22; Sp. p. 6036; Gaz. vol. 160; p. 1019.

Noble, Robert P., Smithfield, N. C. Steering device for bicycles. No. 973,806; Oct. 25; Sp. p. 5019; Gaz. vol. 159; p. 872.

Noble, Thomas, Lakeside, Nebr. Horse-releaser. No. 970,346; Sept. 13; Sp. p. 2560; Gaz. vol. 158; p. 432.

Noble, William A. E., Hollywood, assignor to United Casting Company, Los Angeles, Cal. Automobile turn-table bearing and making the same. No. 958,162; May 17; Sp. p. 3738; Gaz. vol. 154; p. 632.

Noble, William A. E., Hollywood, and S. Jay, assignors to United Casting Company, Los Angeles, Cal. Automobile turn-table construction. No. 958,161; May 17; Sp. p. 3737; Gaz. vol. 154; p. 631.

Noble & Wood Machine Company, The. (See Noble, James A., assignor.)

Nock, Harold E., assignor to Paye & Baker Manufacturing Company, North Attleboro, Mass. Frame for bags or purses. No. 945,136; Jan. 4; Sp. p. 260; Gaz. vol. 150; p. 45.

Nock, Rupert A., Newark, N. J., assignor to The William B. Kerr Company. Case for cigars, cigarettes, &c. No. 970,258; Sept. 13; Sp. p. 2398; Gaz. vol. 158; p. 404.

Noe, Amon T., Parnassus, assignor to Electric Renovator Manufacturing Company, Pittsburg, Pa. Exhaust or suction nozzle. No. 955,897; Apr. 26; Sp. p. 4798; Gaz. vol. 153; p. 849.

Noé, Ludwig, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarten, Germany. Means for expelling the gas-engine exhaust of submarine boats. No. 953,283; Mar. 29; Sp. p. 5816; Gaz. vol. 152; p. 1052.

Noeggerath, Jakob E., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 957,242; May 10; Sp. p. 1607; Gaz. vol. 154; p. 284.

Noeggerath, Jakob E., Schenectady, N. Y., assignor to General Electric Company. Means for decreasing windage losses. No. 957,243; May 10; Sp. p. 1609; Gaz. vol. 154; p. 284.

Noeggerath, Jakob E., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 959,959; May 31; Sp. p. 7657; Gaz. vol. 154; p. 1291.

Noeggerath, Jakob E., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 960,383; June 7; Sp. p. 297; Gaz. vol. 155; p. 50.

Noeggerath, Jakob E., Schenectady, N. Y., assignor to General Electric Company. Insulator for high-tension transmission systems. No. 974,177; Nov. 1; Sp. p. 148; Gaz. vol. 160; p. 27.

Noell, Charles H., assignor of one-half to G. M. Arrington, Montvale, Va. Corn planter and hiller. No. 977,535; Dec. 6; Sp. p. 275; Gaz. vol. 161; p. 40.

Noequal Door Co. (See Flotron and Hamilton, assignors.)

Noeth, Michael, Chicago, Ill. Piano without strings. No. 950,794; Mar. 1; Sp. p. 722; Gaz. vol. 152; p. 115.

Noguier, Paul, assignor of one-half to C. Andro, New York, N. Y. City street-directory. No. 963,635; July 5; Sp. p. 1351; Gaz. vol. 156; p. 209.

Nolan, Charles D., J. E. Smith, and J. H. Nolan, Fort Wayne, Ind. Meat and bone cutting machine. No. 950,638; Mar. 1; Sp. p. 373; Gaz. vol. 152; p. 60.

Nolan, James L. (See Rowell and Nolan.)

Nolan, John H. (See Nolan, Smith, and Nolan.)

Nolan, Johnston, Philadelphia, Pa. Valve. No. 963,314; July 5; Sp. p. 701; Gaz. vol. 156; p. 100.

Nolan, Johnston, Philadelphia, Pa. Valve. No. 976,489; Nov. 22; Sp. p. 5331; Gaz. vol. 160; p. 904.

Nolan, William E., Sullivan, Ind. Safety-brake for cars. No. 955,536; Apr. 19; Sp. p. 3959; Gaz. vol. 153; p. 695.

Noland, William H., Fresno, assignor of one-third to E. A. Stallings and one-third to T. B. Hardy, Fresno county, Cal. Machine for treating fruit. No. 950,753; Mar. 1; Sp. p. 628; Gaz. vol. 152; p. 101.

Nold, John, Tolstoy, S. D. Manure-loader. No. 957,085; May 3; Sp. p. 1258; Gaz. vol. 154; p. 200.

Nole, Edward P., North Belle Vernon, Pa. Automatic regulator for water-heaters. No. 953,543; Mar. 29; Sp. p. 6383; Gaz. vol. 152; p. 1143.

Nolen, James G., Chicago, Ill. Automatic electrical signaling system. No. 978,629; Dec. 13; Sp. p. 2639; Gaz. vol. 161; p. 449.

Nolen, James G., assignor of one-half to F. B. Cook, Chicago, Ill. Automatically-released alarm-box for fire-extinguisher systems. No. 946,257; Jan. 11; Sp. p. 2744; Gaz. vol. 150; p. 456.

Nolen, James G., Chicago, Ill., assignor, by mesne assignments, to Automatic Fire Protection Company. Signaling apparatus and circuits therefor. No. 946,258; Jan. 11; Sp. p. 2747; Gaz. vol. 150; p. 457.

Nolen, James G., Chicago, Ill., assignor, by mesne assignments, to Automatic Fire Protection Company. Valve. No. 962,660; June 28; Sp. p. 5121; Gaz. vol. 155; p. 895.

Nolen, James G., assignor to J. E. Shepherd, Chicago, Ill. Combined burglar-alarm and telephone system. No. 946,259; Jan. 11; Sp. p. 2751; Gaz. vol. 150; p. 457.

Nolen, James G., assignor to J. E. Shepherd, Chicago, Ill. Signaling system and appliances. No. 948,738; Feb. 8; Sp. p. 2034; Gaz. vol. 151; p. 348.

Nolen, James G., assignor to J. E. Shepherd, Chicago, Ill. Combined telephone and protective alarm system. No. 955,472; Apr. 19; Sp. p. 3828; Gaz. vol. 153; p. 673.

Nolen, James G., assignor to J. E. Shepherd, Chicago, Ill. Combined telephone and protective alarm system. No. 969,393; Sept. 6; Sp. p. 515; Gaz. vol. 158; p. 82.

Nolen, James G., and J. Shepherd; said Nolen assignor to J. E. Shepherd, Chicago, Ill. Resilient connection device for relatively movable parts. No. 961,312; June 14; Sp. p. 2200; Gaz. vol. 155; p. 391.

Noll, David F., Altoona, Pa. Flush-car-door supporting and operating means. No. 955,537; Apr. 19; Sp. p. 3962; Gaz. vol. 153; p. 696.

Noll, Henry, Alameda, Cal. Toy. No. 966,761; Aug. 9; Sp. p. 2022; Gaz. vol. 157; p. 336.

Noll, Henry J., Milwaukee, Wis. Bolster-spring. No. 955,673; Apr. 19; Sp. p. 4287; Gaz. vol. 153; p. 741.

Noll, Jacob F. (See Moe, Ivar, assignor.)

Noll, Joseph C., Fort Wayne, Ind. Wrench. No. 979,330; Dec. 20; Sp. p. 4145; Gaz. vol. 161; p. 714.

Nollenberger, Theodore, *et al.* (See McFarland, William W., assignor.)

Nolly, Hector de, assignor to Compagnie des Forges & Acieries de la Marine et d'Honrecourt, St. Chamond, France. Making hardened steel. No. 957,706; May 10; Sp. p. 2556; Gaz. vol. 154; p. 442.

Nolte, Christian F., New York, N. Y. Ash-sifter. No. 962,661; June 28; Sp. p. 5122; Gaz. vol. 155; p. 895.

Nolte, Frederick W., Victoria, British Columbia, Canada. Eyeglasses. No. 952,626; Mar. 22; Sp. p. 4413; Gaz. vol. 152; p. 805.

Nolte, Harriet E., administratrix. (See Nolte, Martin C.)

Nolte, Martin C., deceased, Long Pine, Nebr.; H. E. Nolte, administratrix. Cement post. No. 949,594; Feb. 15; Sp. p. 3789; Gaz. vol. 151; p. 659.

Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Work-holder for pipe-threading tools. No. 953,971; Apr. 5; Sp. p. 564; Gaz. vol. 153; p. 102.

Noonan, John E., New York, N. Y. Portable bowling-alley. No. 972,568; Oct. 11; Sp. p. 2311; Gaz. vol. 159; p. 396.

Noonan, Michael H., Modesto, Cal. Mowing-machine. No. 966,046; Aug. 2; Sp. p. 439; Gaz. vol. 157; p. 71.

Noonan, Patrick W., Webb City, Mo. Shoe-shiner. No. 945,580; Jan. 4; Sp. p. 1237; Gaz. vol. 150; p. 192.

Noppe, Henry, Grand Rapids, Mich. Extensible bracket. No. 975,273; Nov. 8; Sp. p. 2697; Gaz. vol. 160; p. 436.

Noppel, Emil, Philadelphia, Pa. Suction-cup. No. 963,060; July 5; Sp. p. 64; Gaz. vol. 156; p. 13.

Norbom, Haakon E., Philadelphia, Pa. Shaft-hanger. No. 951,447; Mar. 8; Sp. p. 2001; Gaz. vol. 152; p. 348.

Norby, John E., Scandinavia, Wis. Apparatus for laying drop-siding and matched material. No. 958,671; May 17; Sp. p. 4892; Gaz. vol. 154; p. 803.

Norcross, Isaac W., New York, N. Y. Apparatus for coating sound-records with electroconductive material. No. 952,753; Mar. 22; Sp. p. 4687; Gaz. vol. 152; p. 847.

Norcross, Isaac W., New York, N. Y. Meter-lock. No. 964,681; July 19; Sp. p. 3701; Gaz. vol. 156; p. 616.

Norcross, Levi W., Fort Worth, Tex. Combined music-rack and front panel for pianos. No. 949,806; Feb. 22; Sp. p. 4237; Gaz. vol. 151; p. 764.

Norcross, Levi W., Fort Worth, Tex. Pedal-action. No. 954,043; Apr. 5; Sp. p. 722; Gaz. vol. 153; p. 126.

Norcross, Levi W., Fort Worth, Tex. Piano. No. 955,096; Apr. 12; Sp. p. 3020; Gaz. vol. 153; p. 512.

Norcross, Levi W., Fort Worth, Tex. Pedal-action for pianos. No. 966,232; Aug. 2; Sp. p. 838; Gaz. vol. 157; p. 133.

Norcross, William C., Terre Haute, Ind. Sand-molding machine. No. 954,399; Apr. 5; Sp. p. 1484; Gaz. vol. 153; p. 247.

Nord, Edward. (See Schwemberger, Albert, assignor.)

Nordberg, Bruno V., Milwaukee, Wis. Motor-compressor. No. 978,194; Dec. 13; Sp. p. 1686; Gaz. vol. 161; p. 297.

Norddeutsche Affinerie. (See Wohlwill, Heinrich, assignor.)

Nordell, Carl, Stamford, Conn. Furnace. No. 966,233; Aug. 2; Sp. p. 840; Gaz. vol. 157; p. 133.

Nordlinger, Isaac B. (See Heupel and Nordlinger.)

Nordlund, Anton, Warroad, Minn. Buckle. No. 956,149; Apr. 26; Sp. p. 5331; Gaz. vol. 153; p. 937.

Nordquist, Andrew O., A. R., and C. W., Minneapolis, Minn. Automobile front axle with drive. No. 966,586; Aug. 9; Sp. p. 1622; Gaz. vol. 157; p. 276.

Nordquist, Axel R. (See Nordquist, Andrew O., A. R., and C. W.)

Alphabetical list of patentees—Continued.

Nordquist, Carl W. (See Nordquist, Andrew O., A. R., and C. W.)
Nordqvist, Per E., Sundbyberg, Sweden, assignor to Concealed Door Check Company. Device for preventing doors from sagging. No. 955,674; Apr. 19; Sp. p. 4289; Gaz. vol. 153; p. 742.
Nordström, Wilhelm H., and N. C. Qvist, Horsens, Denmark. Paving-rammer. No. 965,218; July 26; Sp. p. 4779; Gaz. vol. 156; p. 827.
Norgren, John, Chicago, Ill. Resilient vehicle-wheel. No. 952,754; Mar. 22; Sp. p. 4689; Gaz. vol. 152; p. 848.
Noriz Manufacturing Company. (See Ziron, Paul, assignor.)
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Pneumatic drill. No. 969,394; Sept. 6; Sp. p. 521; Gaz. vol. 158; p. 83.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Pneumatic tool. No. 977,826; Dec. 6; Sp. p. 886; Gaz. vol. 161; p. 139.
Norlund, Olof A., Williamsport, Pa. Creeper. No. 962,042; June 21; Sp. p. 3751; Gaz. vol. 155; p. 658.
Norlund, Olof A., Williamsport, Pa. Nut-lock. No. 979,545; Dec. 27; Sp. p. 4586; Gaz. vol. 161; p. 808.
Norma Compagnie G. M. B. H. (See Kirner, Josef H. K., assignor.)
Norman, Alexander, Gilroy, Cal. Pontoon bridge. No. 951,379; Mar. 8; Sp. p. 1872; Gaz. vol. 152; p. 326.
Norman, Charles A., Latimer, Kans. Clevis. No. 978,330; Dec. 13; Sp. p. 1986; Gaz. vol. 161; p. 346.
Norman, Earl E., Philadelphia, Pa., assignor, by mesne assignments, to Northern Equipment Company, Chicago, Ill. Automatic feed-water device for steam-boilers. No. 979,546; Dec. 27; Sp. p. 4587; Gaz. vol. 161; p. 808.
Norman, Frederick L., assignor of one-half to H. Bealmear, Baltimore, Md. Envelop. No. 960,384; June 7; Sp. p. 298; Gaz. vol. 155; p. 50.
Norman, Frederick L., assignor of one-half to H. Bealmear, Baltimore, Md. Cork-extractor. No. 975,384; Nov. 8; Sp. p. 2936; Gaz. vol. 160; p. 473.
Norman, John T., St. Lizier, Henley-upon-Thames, England. Composition for cementing or joining materials or articles. No. 949,493; Feb. 15; Sp. p. 3593; Gaz. vol. 151; p. 626.
Norman, Sterling E., Attleboro, Mass. Gardening implement. No. 978,478; Dec. 13; Sp. p. 2295; Gaz. vol. 161; p. 396.
Norquist, Emanuel E., Kansas City, Mo. Portable grain-bin. No. 952,133; Mar. 15; Sp. p. 3382; Gaz. vol. 152; p. 608.
Norris, Albert F. and C. H., Boston, Mass. Pedal. No. 946,260; Jan. 11; Sp. p. 2754; Gaz. vol. 150; p. 458.
Norris, Albert F. and C. H., Boston, Mass. Pedal. No. 969,650; Sept. 6; Sp. p. 1059; Gaz. vol. 158; p. 170.
Norris, Albert F. and C. H., Boston, Mass. Pedal and toe-cap therefor. No. 969,651; Sept. 6; Sp. p. 1064; Gaz. vol. 158; p. 171.
Norris, Almon E., Cambridge, Mass. Cableway apparatus. No. 956,150; Apr. 26; Sp. p. 5333; Gaz. vol. 153; p. 937.
Norris, Almon E., Cambridge, Mass. Apparatus for delivering materials. No. 961,732; June 14; Sp. p. 3060; Gaz. vol. 155; p. 531.
Norris, Almon E., Cambridge, Mass. Controlling device for pressure-fluid engines. No. 972,218; Oct. 11; Sp. p. 1563; Gaz. vol. 159; p. 274.
Norris, Arthur B., Rochester, N. Y. Multiple turning-lathe. No. 954,456; Apr. 12; Sp. p. 1610; Gaz. vol. 153; p. 294.
Norris, Arthur B., Rochester, N. Y. Woodworking-machine. No. 959,583; May 31; Sp. p. 6834; Gaz. vol. 154; p. 1163.
Norris, Clifton H. (See Norris, Albert F. and C. H.)
Norris, Clyde B., East Chicago, Ill. Safety device for elevators. No. 969,557; Sept. 6; Sp. p. 875; Gaz. vol. 158; p. 138.
Norris, Daniel D., Oakdale, La. Rail-fastener. No. 964,682; July 19; Sp. p. 3702; Gaz. vol. 156; p. 616.
Norris, Frank P., *et al.* (See Maccallum, Norman E., assignor.)
Norris, George B., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Wheeled truck. No. 960,685; June 7; Sp. p. 909; Gaz. vol. 155; p. 151.
Norris, George L., *et al.* (See McCarty, Milton T., assignor.)
Norris, Richard, assignor of one-half to H. Thompson, Marion, Ohio. Friction driving mechanism. No. 976,281; Nov. 22; Sp. p. 4872; Gaz. vol. 160; p. 832.
Norris, William K. (See McQuay and Norris.)
Norris, William P. (See Strance, Bull, and Norris.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Halvorsen, Birger F., assignor.)
Norstrand, Hans P. G., assignor to Rathbone, Sard & Company, Albany, N. Y. Burner-support for gas-ranges. No. 947,753; Jan. 25; Sp. p. 6071; Gaz. vol. 150; p. 1013.
North American Chemical Company. (See Thoma, Andrew, assignor.)
North Bro's M'f'g Co. (See Fegley, Thomas J., assignor.)
North Bro's M'f'g Co. (See Fegley and Leopold, assignors.)
North Bro's M'f'g Co. (See Leopold, George O., assignor.)
North, Charles H., assignor to The North Electric Company, Cleveland, Ohio. Automatic peg-counter for telephone-exchanges. No. 965,833; July 26; Sp. p. 6129; Gaz. vol. 156; p. 1039.
North, Charles H., assignor to The North Electric Company, Cleveland, Ohio. Electrical relay. No. 972,634; Oct. 11; Sp. p. 2463; Gaz. vol. 159; p. 419.
North, Charles H., assignor to The North Electric Company, Cleveland, Ohio. Automatic switch for telephone systems. No. 977,536; Dec. 6; Sp. p. 277; Gaz. vol. 161; p. 40.
North Electric Company, The. (See Cadell, John F., assignor.)
North Electric Company, The. (See Clement, Edward E., assignor.)
North Electric Company, The. (See North, Charles H., assignor.)
North Electric Company, The. (See Wright, Joseph L., assignor.)
North, Herbert S., Rahway, N. J. Machine for making borders for the edges of fabrics. No. 965,001; July 19; Sp. p. 4351; Gaz. vol. 156; p. 725.
North & Judd Manufacturing Company. (See Anderson, Charles H., assignor.)
North and Judd Manufacturing Company, The. (See Smith, Clarence E., assignor.)
Northam Auto Pressure Gauge Co. (See Sandham, Walter E., assignor.)
Northam, Robert J., Los Angeles, Cal. Tool-holder. No. 953,434; Mar. 29; Sp. p. 6149; Gaz. vol. 152; p. 1104.
Northam, Robert J., Los Angeles, Cal. Lifting-jack. No. 974,988; Nov. 8; Sp. p. 2079; Gaz. vol. 160; p. 339.
Northcutt, Alexander. (See Northcutt, Frank A. and A.)
Northcutt, Frank A. and A., Newport, Ky. Automatic winding means for card-machines. No. 966,351; Aug. 2; Sp. p. 1050; Gaz. vol. 157; p. 169.
Northern Electrical Manufacturing Company. (See Jackson, Corwill, assignor.)
Northern Electrical Manufacturing Company. (See Stevens, Andrew E., assignor.)
Northern Engineering Works. (See True, George A., assignor.)
Northern Equipment Company. (See Norman, Earl E., assignor.)
Northern Railway Supply Company. (See Drew, Herbert W., assignor.)
Northern Trust Company, The, administrator. (See Green, James M.)
Northern Water Softener Company. (See Bartlett and Staley, assignors.)
Northey, John P., Toronto, Ontario, Canada. Sound-producing device. No. 973,960; Oct. 25; Sp. p. 5329; Gaz. vol. 159; p. 926.
Northey, John P., Toronto, Ontario, Canada. Sound-producing device. No. 976,682; Nov. 22; Sp. p. 5718; Gaz. vol. 160; p. 968.
Northrop, Frank E., Bristol, Conn., assignor to The C. J. Root Company. Counter device. No. 948,768; Feb. 8; Sp. p. 2110; Gaz. vol. 151; p. 358.
Northrop, George W., assignor of one-half to J. J. O'Connor, Waterville, N. Y. Automatic brake to be applied to wheeled vehicles. No. 967,824; Aug. 16; Sp. p. 4214; Gaz. vol. 157; p. 720.
Northrop, Herbert N., Somerville, Mass. Collar-supporter. No. 975,986; Nov. 15; Sp. p. 4170; Gaz. vol. 160; p. 706.
Northrop, Jonas. (See Wood and Northrop.)
Northrop, Jonas, assignor to W. F. Draper, Hopedale, Mass. Loom-temple. No. 956,725; May 3; Sp. p. 482; Gaz. vol. 154; p. 78.
Northrop, Jonas, assignor to W. F. Draper, Hopedale, Mass. Filling-replenishing loom. No. 956,726; May 3; Sp. p. 486; Gaz. vol. 154; p. 78.
Northrop, Jonas, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Weft-fork mechanism. No. 973,126; Oct. 18; Sp. p. 3548; Gaz. vol. 159; p. 614.
Northrop, Jonas, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Filling-replenishing mechanism for looms. No. 973,127; Oct. 18; Sp. p. 3551; Gaz. vol. 159; p. 615.
Northrop, Jonas, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Shuttle-positioner. No. 973,128; Oct. 18; Sp. p. 3558; Gaz. vol. 159; p. 615.
Northrop, Jonas, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Thin-place preventer for looms. No. 973,129; Oct. 18; Sp. p. 3562; Gaz. vol. 159; p. 615.
Northrop, Jonas, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Shuttle-box. No. 973,130; Oct. 18; Sp. p. 3565; Gaz. vol. 159; p. 616.
Northrop, Jonas, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Filling-replenishing loom. No. 973,131; Oct. 18; Sp. p. 3569; Gaz. vol. 159; p. 616.
Northrop, Jonas, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Cushioning-stop for picker-sticks. No. 973,132; Oct. 18; Sp. p. 3572; Gaz. vol. 159; p. 617.

Northrop, Jonas, assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Filling-replenishing mechanism. No. 973,133; Oct. 18; Sp. p. 3573; Gaz. vol. 159; p. 617.
Northrop, Jonas, assignor to W. F. Draper, deceased. Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Cloth-beam for looms. No. 973,134; Oct. 18; Sp. p. 3576; Gaz. vol. 159; p. 617.
Northrup, Blancher D., Washington, Pa. Friction-clutch. No. 975,987; Nov. 15; Sp. p. 4171; Gaz. vol. 160; p. 706.
Northrup, Edwin F., Philadelphia, Pa., assignor to Leeds and Northrup Company. Electrical measuring instrument. No. 950,513; Mar. 1; Sp. p. 108; Gaz. vol. 152; p. 18.
Northrup, Edwin F., Philadelphia, Pa., assignor to Leeds and Northrup Company. Electrical recorder. No. 950,555; Mar. 1; Sp. p. 193; Gaz. vol. 152; p. 33.
Northrup, Edwin F., M. E. Leeds, and C. R. Cary, Philadelphia, Pa., assignors to Leeds and Northrup Company. Resistance-thermometer. No. 955,191; Apr. 19; Sp. p. 3218; Gaz. vol. 153; p. 578.
Northrup, Le Roy. (See Kingston and Lane, assignors.)
Northrup, Theodore H. (See Whitaker, David S., assignor.)
Northwestern Chemical Company, The. (See La Vallee, George A., assignor.)
Northwestern Knitting Co. (See Chatfield, Franklin, assignor.)
Norton, Bernard W., Alameda, Cal. Display device. No. 977,395; Nov. 29; Sp. p. 7329; Gaz. vol. 160; p. 1240.
Norton, Charles H., New York, N. Y. Sound-reproducing machine. No. 950,024; Feb. 22; Sp. p. 4798; Gaz. vol. 151; p. 843.
Norton, Charles H., J. C. Spence, and H. N. Cudworth, assignors to Norton Grinding Company, Worcester, Mass. Grinding-machine. No. 945,979; Jan. 11; Sp. p. 2164; Gaz. vol. 150; p. 360.
Norton, Charles L., Hudson, N. H. Forming fibrous sheets. No. 979,547; Dec. 27; Sp. p. 4591; Gaz. vol. 161; p. 809.
Norton, Charles L., Hudson, N. H. Machine for forming fibrous sheets. No. 979,548; Dec. 27; Sp. p. 4596; Gaz. vol. 161; p. 809.
Norton Company. (See Jeppson, George N., assignor.)
Norton Company. (See Jeppson and Saunders, assignors.)
Norton Company. (See Saunders, Lewis E., assignor.)
Norton, Edgar W., Worcester, Mass. Corner-bead for plastering or concrete reinforcing. No. 953,391; Mar. 29; Sp. p. 6064; Gaz. vol. 152; p. 1089.
Norton, Edwin, Lake Placid, assignor to The Automatic Vacuum Canning Company, New York, N. Y. Can-heading machine. No. 968,493; Aug. 23; Sp. p. 5647; Gaz. vol. 157; p. 973.
Norton, Edwin and E. K., New York, N. Y. Sheet-feeding mechanism. No. 979,549; Dec. 27; Sp. p. 4601; Gaz. vol. 161; p. 810.
Norton, Edwin K. (See Norton, Edwin and E. K.)
Norton, Elliott S., assignor to Acme Flexible Clasp Company, Chicago, Ill. Machine for making corrugated and saw-toothed metal fastener-strips. No. 956,540; May 3; Sp. p. 66; Gaz. vol. 154; p. 14.
Norton, Frank, Shirley Mills, Me. Floor-set. No. 975,566; Nov. 15; Sp. p. 3323; Gaz. vol. 160; p. 564.
Norton, Fred E. (See Reynolds and Norton.)
Norton, Fred E., Youngstown, Ohio. Gas-engine cylinder. No. 960,385; June 7; Sp. p. 299; Gaz. vol. 155; p. 50.
Norton, George W. (See Everett and Norton.)
Norton Grinding Company. (See Norton, Spence, and Cudworth, assignors.)
Norton, James A., Odebolt, Iowa. Revetment. No. 951,426; Mar. 8; Sp. p. 1964; Gaz. vol. 152; p. 342.
Norton, John H., Boston, and W. H. Mannix, Malden, Mass. Device for obtaining a mold of the foot-arch. No. 964,119; July 12; Sp. p. 2406; Gaz. vol. 156; p. 395.
Norton, Leonard M., assignor of one-half to H. W. Warner, Northampton, Mass. Ladder. No. 951,092; Mar. 1; Sp. p. 1274; Gaz. vol. 152; p. 209.
Norton, Leonard M., assignor of one-half to A. G. Carley, Northampton, Mass. Ladder brace and bracket. No. 966,852; Aug. 9; Sp. p. 2217; Gaz. vol. 157; p. 364.
Norton, Sheldon, Mineville, N. Y. Magnetic separator. No. 945,408; Jan. 4; Sp. p. 879; Gaz. vol. 150; p. 136.
Norton, Thomas M. (See Mackenzie and Norton.)
Norton, William A., Marshalltown, Iowa. Furnace. No. 952,047; Mar. 15; Sp. p. 3222; Gaz. vol. 152; p. 580.
Norton, William S., New York, assignor of one-half to L. H. Latimer, Flushing, N. Y. Lamp-fixture. No. 968,787; Aug. 30; Sp. p. 6310; Gaz. vol. 157; p. 1100.
Norwalk Lock Co., The. (See Hoffman, Henry, assignor.)
Norwall Manufacturing Company. (See Allen, Everett P., assignor.)
Norwall Manufacturing Company. (See Bard, George M., assignor.)
Norwall Manufacturing Company. (See Hoffman, George D., assignor.)
Norwich Automatic Feeder Co. (See Enos, Frank, Jr., assignor.)
Norwood, Elise R., San Francisco, Cal. Folding canopy for hammocks. No. 955,281; Apr. 19; Sp. p. 3417; Gaz. vol. 153; p. 608.
Norwood, John E., Baltimore, Md. Vehicle-caster. No. 973,690; Oct. 25; Sp. p. 4789; Gaz. vol. 159; p. 832.
Norwood, W. L., *et al.* (See Thompson, Andrew J., assignor.)
Noss, Joseph, Three Rivers, Mich. Tool-sharpener. No. 948,429; Feb. 8; Sp. p. 1370; Gaz. vol. 151; p. 244.
Notman, Robert L., assignor to McKinnon Dash Company, Buffalo, N. Y. Carriage-top rest. No. 959,790; May 31; Sp. p. 7268; Gaz. vol. 154; p. 1231.
Notman, Robert L., assignor to McKinnon Dash Company, Buffalo, N. Y. Carriage-top rest. No. 959,791; May 31; Sp. p. 7269; Gaz. vol. 154; p. 1232.
Nott Fire Engine Company. (See Penney, Herbert E., assignor.)
Nott, George C., Brecon, England. Candle-holder and candlestick. No. 952,935; Mar. 22; Sp. p. 5061; Gaz. vol. 152; p. 909.
Nottberg, William, and W. Lehmann, Kansas City, Mo. Bottle rest and guide for bottle-capping machines. No. 949,712; Feb. 15; Sp. p. 4010; Gaz. vol. 151; p. 698.
Nottingham, Otis W. (See Starkweather and Nottingham.)
Notz, Felix, Chicago, Ill. Mixing-machine. No. 959,584; May 31; Sp. p. 6841; Gaz. vol. 154; p. 1164.
Noullet, Frank A., New Orleans, La. Pile and pile structure. No. 963,061; July 5; Sp. p. 66; Gaz. vol. 156; p. 13.
Nourbourne, James W. (See Latham, Albert, assignor.)
Nourse, Harold A., St. Paul, Minn. Brooder. No. 955,473; Apr. 19; Sp. p. 3831; Gaz. vol. 153; p. 673.
Nourse, Leland D. (See Pye and Nourse.)
Nourse, Rupert A. (See Davis, Irvin W., assignor.)
Nourse, Rupert A., assignor of one-half to I. W. Davis, Milwaukee, Wis. Door-hanger track and support. No. 971,629; Oct. 4; Sp. p. 254; Gaz. vol. 159; p. 45.
Novak, Julius J., Loma, Nebr. Manure-loader and like device. No. 970,259; Sept. 13; Sp. p. 2400; Gaz. vol. 158; p. 404.
Novelty Incandescent Lamp Company. (See Mickey, Robert K., assignor.)
Novelty Iron Company, The. (See Girvin, Lincoln A., assignor.)
Novelty Manufacturing Company. (See Boeck, Charles G., assignor.)
Novotny, John N., Badger, Minn. Neck-yoke. No. 968,393; Aug. 23; Sp. p. 5442; Gaz. vol. 157; p. 938.
Nowodworski, Fread, Cleveland, Ohio. Portable scaffold. No. 956,406; Apr. 26; Sp. p. 5892; Gaz. vol. 153; p. 1024.
Noxon, Elwin I., St. Louis, Mo. Automatic proportional feeding device. No. 952,134; Mar. 15; Sp. p. 3384; Gaz. vol. 152; p. 609.
Noye Manufacturing Company. (See Wilson, John A., Jr., assignor.)
Noyes, Arthur A., New York, N. Y. Pipe-hanger. No. 948,902; Feb. 8; Sp. p. 2365; Gaz. vol. 151; p. 402.
Noyes, Bernice J., Boston, Mass., assignor to The New England Refrigerator Company, Concord, N. H. Refrigerating apparatus. No. 973,548; Oct. 25; Sp. p. 4478; Gaz. vol. 159; p. 783.
Noyes, Charles H., Omaha, Nebr. Lifting-jack. No. 959,157; May 24; Sp. p. 5946; Gaz. vol. 154; p. 995.
Noyes, Edmund H. (See Jones, Alva D., assignor.)
Noyes, Edward I. K., Boston, Mass. Boiler-tube cleaner. No. 955,348; Apr. 19; Sp. p. 3568; Gaz. vol. 153; p. 631.
Noyes, Edward P., Winchester, Mass., assignor to C. P. Power Company, Newark, N. J. Water-level controller. No. 967,228; Aug. 16; Sp. p. 3001; Gaz. vol. 157; p. 519.
Noyes, Edward P., Winchester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Mixer for gases and liquids. No. 979,787; Dec. 27; Sp. p. 5124; Gaz. vol. 161; p. 891.
Noyes, Edward P., Winchester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Vacuum apparatus. No. 979,788; Dec. 27; Sp. p. 5130; Gaz. vol. 161; p. 892.
Noyes, Henry F., assignor to Emmert Manufacturing Company, Waynesboro, Pa. Drafting instrument. No. 965,483; July 26; Sp. p. 5359; Gaz. vol. 156; p. 917.
Noyes, John B. (See Reily and Noyes.)
Noyes, La Verne W., Chicago, Ill. Chain shield for pneumatic tires. No. 961,791; June 21; Sp. p. 3200; Gaz. vol. 155; p. 574.
Noyes, La Verne W., Chicago, Ill. Magneto-generator. No. 965,484; July 26; Sp. p. 5361; Gaz. vol. 156; p. 918.
Noyes, Mayhew E., Hyde Park, Mass., assignor to W. F. Pinkham, Wolfboro, N. H. Bottle-labeling machine. No. 951,837; Mar. 15; Sp. p. 2797; Gaz. vol. 152; p. 510.
Noyes, Pierrepont B., assignor to Oneida Community Limited, Oneida, N. Y. Reinforced concrete. No. 957,244; May 10; Sp. p. 1609; Gaz. vol. 154; p. 284.
Nuberg, Matthys, J. Mollien, and F. Boss, Grand Rapids, Mich. Gas-hanger. No. 945,860; Jan. 11; Sp. p. 1910; Gaz. vol. 150; p. 317.
Nuernberger, Otto, Comfort, Tex. Pump attachment. No. 957,791; May 10; Sp. p. 2744; Gaz. vol. 154; p. 470.
Nueske, John, Wittenberg, Wis. Automatic track-closer. No. 967,229; Aug. 16; Sp. p. 3006; Gaz. vol. 157; p. 520.
Nugent, Charles, Philadelphia, Pa. Extension embalming-couch. No. 971,921; Oct. 4; Sp. p. 881; Gaz. vol. 159; p. 152.

Alphabetical list of patentees—Continued.

Nugent, William W., Chicago, Ill. Oiling device. No. 950,556; Mar. 1; Sp. p. 202; Gaz. vol. 152; p. 33.
Nullmeyer, Frank H. (See Lewis and Nullmeyer.)
Numerograph Manufacturing Co. (See Dudley, George W., assignor.)
Nummedahl, William J., West Concord, Minn. Dump-carrier. No. 952,936; Mar. 22; Sp. p. 5063; Gaz. vol. 152; p. 910.
Nunamaker, Henry S., Cleveland, Ohio. Drafting and engraving machine. No. 972,569; Oct. 11; Sp. p. 2313; Gaz. vol. 159; p. 396.
Nuñez, Manuel G., Madrid, Spain. Fixed vernier. No. 977,537; Dec. 6; Sp. p. 281; Gaz. vol. 161; p. 41.
Nunn, Frederick W. (See Schrode, John L., assignor.)
Nunn, Frederick W., *et al.* (See Shrode, John L., assignor.)
Nürnberger Kunstgummifabrik Gustav Kopp. (See Mattick, August, assignor.)
Nuttall, George, Chester, Pa. Heddle-frame. No. 971,551; Oct. 4; Sp. p. 87; Gaz. vol. 159; p. 17.
Nuttall, George, Chester, Pa. Heddle-frame. No. 972,901; Oct. 18; Sp. p. 3053; Gaz. vol. 159; p. 538.
Nuttall, James, Bury, England. Rotary steam-joint. No. 951,771; Mar. 8; Sp. p. 2653; Gaz. vol. 152; p. 459.
Nuttall, James, Bury, England. Rotary steam-joint. No. 955,097; Apr. 12; Sp. p. 3022; Gaz. vol. 153; p. 513.
Nuttall, John, Chicopee, Mass., assignor to A. G. Spalding & Bros. Mfg. Co., New York, N. Y. Skate. No. 967,825; Aug. 16; Sp. p. 4215; Gaz. vol. 157; p. 721.
Nutting, Alfred B., Salisbury, Mass. Buffing and polishing machine. No. 973,135; Oct. 18; Sp. p. 3580; Gaz. vol. 159; p. 618.
Nutting, Elias S. (See Leyson, Sackville G., assignor.)
Nya Ackumulator Aktiebolaget Jungner. (See Estelle, Axel T. K., assignor.)
Nya Ackumulator Aktiebolaget Jungner. (See Estelle and Evers, assignors.)
Nyberg, And., *et al.* (See Ross, John, assignor.)
Nyberg, Andrew V. (See Garber, David N., assignor.)
Nyberg, Carl S., Mariedal, Södertelje, Sweden. Packeting-machine. No. 965,317; July 26; Sp. p. 5000; Gaz. vol. 156; p. 861.
Nyberg, Louis, *et al.* (See Ross, John, assignor.)
Nyborg, Marinus J. C., Minneapolis, Minn. Quick-threading surgical needle. No. 965,219; July 26; Sp. p. 4782; Gaz. vol. 156; p. 827.
Nydam, Sibble, Indianapolis, Ind. Automatic train control. No. 949,775; Feb. 22; Sp. p. 4169; Gaz. vol. 151; p. 754.
Nydegger, Paul F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Turbine. No. 969,974; Sept. 13; Sp. p. 1799; Gaz. vol. 158; p. 306.
Nye, Edwin E., Groton, N. Y. Belt attachment. No. 948,792; Feb. 8; Sp. p. 2151; Gaz. vol. 151; p. 366.
Nye and Fredick Company. (See Tiffany, Eli, assignor.)
Nye, Samuel, Corbin, Idaho, assignor of one-half to A. Corbin, 2nd, Spokane, Wash. Sprocket-chain link. No. 957,996; May 17; Sp. p. 3255; Gaz. vol. 154; p. 571.
Nye, Theodore H., assignor to Morgan Construction Company, Worcester, Mass. Guide for rolling-mills. No. 972,219; Oct. 11; Sp. p. 1565; Gaz. vol. 159; p. 274.
Nygaard, Oscar O., Newport, R. I. Compound rotary steam-engine. No. 952,465; Mar. 22; Sp. p. 4045; Gaz. vol. 152; p. 748.
Nymon, Wigo G., Argusville, N. D. Press. No. 949,807; Feb. 22; Sp. p. 4239; Gaz. vol. 151; p. 765.
Nyquist, Swan. (See Lindberg, Charles J., assignor.)
Nystrom, Oscar V., Mill Valley, Cal. Window frame and sash. No. 956,151; Apr. 26; Sp. p. 5338; Gaz. vol. 153; p. 938.
O. A. Miller Treeing Machine Company. (See Batchelder, Charles A., assignor.)
O. A. Miller Treeing Machine Company. (See Brock, Matthias, assignor.)
O. A. Miller Treeing Machine Company. (See Goding, Edwin L., assignor.)
O. A. Miller Treeing Machine Company. (See Hansen, John S., assignor.)
O. A. Miller Treeing Machine Company. (See Oertly and Dudley, assignors.)
O. A. Miller Treeing Machine Company. (See Strachan, Ralph W., assignor.)
O. K. Nut Lock Company, The. (See Armstrong, John R., assignor.)
O. P. Schriver Company, The. (See Webster, John M., assignor.)
O-U-Handy Tool Company. (See Runner, John B., assignor.)
O'Beirne and Company, Edward J. (See O'Beirne, William H., assignor.)
O'Beirne, William H., Pauls Valley, Okla., assignor, by mesne assignments, to E. J. O'Beirne and Company, Elgin, Ill. Reflector. No. 960,037; May 31; Sp. p. 7860; Gaz. vol. 154; p. 1319.
O'Bleness, Cornelius B., Columbus, Ohio. Ironing-board. No. 969,112; Aug. 30; Sp. p. 6958; Gaz. vol. 157; p. 1211.
O'Brien, Benjamin T., and W. H. Browning, Liverpool, England; said Browning assignor to said O'Brien. Machine for calculating. No. 975,633; Nov. 15; Sp. p. 3453; Gaz. vol. 160; p. 586.
O'Brien, Benjamin T., and W. H. Browning, Liverpool, England; said Browning assignor to said O'Brien. Machine for calculating. No. 975,634; Nov. 15; Sp. p. 3458; Gaz. vol. 160; p. 587.
O'Brien, Dennis J., San Francisco, Cal., assignor, by mesne assignments, to W. P. Fairman, Philadelphia, Pa. Manufacture of incandescent electric lamps. No. 964,474; July 12; Sp. p. 3102; Gaz. vol. 156; p. 510.
O'Brien, Dennis J., San Francisco, Cal., assignor, by mesne assignments, to Straight Filament Lamp Company. Lamp and reflector therefor. No. 974,090; Oct. 25; Sp. p. 5600; Gaz. vol. 159; p. 971.
O-Brien, Edward, Hartford, Conn. Line-holder. No. 950,702; Mar. 1; Sp. p. 520; Gaz. vol. 152; p. 82.
O'Brien, Edward J., St. Louis, Mo., assignor to The Proctor and Gamble Company. Making toothed cylinders. No. 957,440; May 10; Sp. p. 2029; Gaz. vol. 154; p. 352.
O'Brien, Falconer, assignor to Detroit Wire Spring Co., Detroit, Mich. Spring-seat structure. No. 954,331; Apr. 5; Sp. p. 1357; Gaz. vol. 153; p. 224.
O'Brien, George L., South Bend, Ind. Barrel. No. 951,023; Mar. 1; Sp. p. 1148; Gaz. vol. 152; p. 187.
O'Brien, James H., Ilion, N. Y. Spring for flexible connections. No. 975,274; Nov. 8; Sp. p. 2699; Gaz. vol. 160; p. 436.
O'Brien, John, Wimbledon, England. Means for molding rubber pads for boots and shoes. No. 945,340; Jan. 4; Sp. p. 733; Gaz. vol. 150; p. 113.
O'Brien, Joseph S., Westfield, Mass. Combined mop head and wringer. No. 976,283; Nov. 22; Sp. p. 4873; Gaz. vol. 160; p. 832.
O'Brien, Leo J., Ansonia, Conn. Folding stool. No. 955,349; Apr. 19; Sp. p. 3570; Gaz. vol. 153; p. 631.
O'Brien, P. W. (See McGill, Wallace D., assignor.)
O'Brien, Patrick J., Torris Cove, Newfoundland. Springless lock. No. 947,996; Feb. 1; Sp. p. 452; Gaz. vol. 151; p. 73.
O'Brien, Patrick J., Torris Cove, Newfoundland. Bottle and jar closure. No. 970,538; Sept. 20; Sp. p. 2973; Gaz. vol. 158; p. 519.
O'Brien, Patrick J., Boston, Mass., assignor to James Barrett Manufacturing Company. Water-closet. No. 946,861; Jan. 18; Sp. p. 4151; Gaz. vol. 150; p. 686.
O'Brien, Vincent J., assignor of one-third to R. C. Awkerman and one-third to T. Punshon, Jr., Denver, Colo. Valve for hammer-drills. No. 962,717; June 28; Sp. p. 5244; Gaz. vol. 155; p. 915.
O'Brien, William C. (See Whittingham and O'Brien.)
O'Brien, William C., and G. H. Whittingham, Baltimore, Md., assignors to Monitor Manufacturing Company of Baltimore City. Starter for electric motors. No. 965,649; July 26; Sp. p. 5742; Gaz. vol. 156; p. 976.
O'Brien, William J., Long Island City, N. Y. Signal. No. 974,810; Nov. 8; Sp. p. 1654; Gaz. vol. 160; p. 277.
O'Brien, William M. (See French and O'Brien.)
O'Brien, William S., *et al.* (See Andrews, Orwen K., assignor.)
O'Bryan, Francis L. (See Stone and O'Bryan.)
O'Bryan, Gory, Louisville, Ky. Governor for air-compressors. No. 965,120; July 19; Sp. p. 4578; Gaz. vol. 156; p. 764.
O'Bryant, William L., Republic, Mo. Compound. No. 973,549; Oct. 25; Sp. p. 4479; Gaz. vol. 159; p. 783.
O'Byrne, Joseph F., Contact, Nev. Shaving-stick holder. No. 964,451; July 12; Sp. p. 3063; Gaz. vol. 156; p. 503.
O'Byrne, Joseph F., Contact, Nev. Gyroscope and sphere. No. 975,988; Nov. 15; Sp. p. 4173; Gaz. vol. 160; p. 707.
O'Byrne, Joseph F., Contact, Nev., and T. A. Flood, Salt Lake City, Utah. Projectile. No. 979,993; Dec. 27; Sp. p. 5555; Gaz. vol. 161; p. 960.
O'Connell, James, assignor of one-fourth to J. Culhan and one-fourth to J. F. Smith, Bedford, Ind. Foot-mat. No. 953,224; Mar. 29; Sp. p. 5687; Gaz. vol. 152; p. 1033.
O'Connell, James P., Crompton, R. I., assignor to Draper Company, Hopedale, Mass. Yarn-spinning apparatus. No. 949,733; Feb. 15; Sp. p. 4061; Gaz. vol. 151; p. 705.
O'Connell, John R., Willow, Okla. Adjustable revolving grocer's cabinet. No. 949,944; Feb. 22; Sp. p. 4560; Gaz. vol. 151; p. 814.
O'Connell, Patrick R. (See Krueger and O'Connell.)
O'Connor, Charles. (See Stenhouse and Eastham, assignors.)
O'Connor, Edward W. (See Evans, James A., assignor.)
O'Connor, Henry D., Ottawa, Ontario, Canada. Pitchfork. No. 951,329; Mar. 8; Sp. p. 1764; Gaz. vol. 152; p. 310.
O'Connor, James, assignor to Auto-Pneumatic Action Co., New York, N. Y. Tracker-board for mechanical musical instruments. No. 971,398; Sept. 27; Sp. p. 4770; Gaz. vol. 158; p. 834.
O'Connor, John F., assignor to W. H. Miner Company, Chicago, Ill. Roller side bearing. No. 946,261; Jan. 11; Sp. p. 2757; Gaz. vol. 150; p. 458.
O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Antifriction center-bearing for railway-cars. No. 953,054; Mar. 29; Sp. p. 5302; Gaz. vol. 152; p. 977.
O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction spring draft-rigging. No. 953,055; Mar. 29; Sp. p. 5304; Gaz. vol. 152; p. 977.

Alphabetical list of patentees—Continued.

O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Tandem-spring and friction draft-rigging. No. 966,234; Aug. 2; Sp. p. 841; Gaz. vol. 157; p. 133.

O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction draft-rigging for railway-cars. No. 966,235; Aug. 2; Sp. p. 843; Gaz. vol. 157; p. 134.

O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 966,236; Aug. 2; Sp. p. 844; Gaz. vol. 157; p. 134.

O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Roller side bearing for railway-cars. No. 972,902; Oct. 18; Sp. p. 3056; Gaz. vol. 159; p. 538.

O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction-buffer for railway-cars. No. 976,903; Nov. 29; Sp. p. 6206; Gaz. vol. 160; p. 1068.

O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 977,827; Dec. 6; Sp. p. 887; Gaz. vol. 161; p. 139.

O'Connor, John F., Chicago, Ill., assignor to C. W. Sherman, Buffalo, N. Y. Car-bolster. No. 976,206; Nov. 22; Sp. p. 4663; Gaz. vol. 160; p. 804.

O'Connor, Joseph J. (See Northrop, George W., assignor.)

O'Connor, Martin A., Chicago, Ill. Blower. No. 951,197; Mar. 8; Sp. p. 1476; Gaz. vol. 152; p. 268.

O'Connor, Patrick R., *et al.* (See Magdiel, Daniel H., assignor.)

O'Connor, Thomas C. (See Gilliard, Ernest T., assignor.)

O'Connor, William, Smith, Mich. Molding-machine. No. 956,596; May 3; Sp. p. 191; Gaz. vol. 154; p. 33.

O'Dell, John. (See Fairchild, Allan W., assignor.)

O'Donnell, Anthony A., Springville, N. Y. Pipe-wrench. No. 972,903; Oct. 18; Sp. p. 3058; Gaz. vol. 159; p. 539.

O'Donnell, Cornelius, Sacramento, Cal. Street-railway-switch-operating device. No. 966,116; Aug. 2; Sp. p. 574; Gaz. vol. 157; p. 94.

O'Donnell, James J., Paducah, Ky. Nut-lock for rail-joints. No. 948,823; Feb. 8; Sp. p. 2219; Gaz. vol. 151; p. 376.

O'Donnell, John G., Washington, D. C. Bush-puller. No. 959,377; May 24; Sp. p. 6392; Gaz. vol. 154; p. 1068.

O'Donnell, John J., Biwabik, assignor of one-half to W. Brown, Hibbing, Minn. Railway-tie and rail-fastening means. No. 948,242; Feb. 1; Sp. p. 943; Gaz. vol. 151; p. 155.

O'Donnell, John J., Biwabik, assignor of one-half to W. Brown, Hibbing, Minn. Railway-tie. No. 976,683; Nov. 22; Sp. p. 5719; Gaz. vol. 160; p. 968.

O'Donnell, John L., St. Louis, Mo. Cover for athletic grounds. No. 974,091; Oct. 25; Sp. p. 5604; Gaz. vol. 159; p. 971.

O'Donnell, John P. (See Reid, John, assignor.)

O'Donnell, Michael J., and F. Hanses, Chicago, Ill. Machine for turning irregular forms. No. 950,158; Feb. 22; Sp. p. 5053; Gaz. vol. 151; p. 887.

O'Donoghue, John, Jersey City, N. J. Plant-bench for hothouses. No. 972,220; Oct. 11; Sp. p. 1567; Gaz. vol. 159; p. 275.

O'Donohoe, Maurice P., assignor of one-half to C. P. Ellis, Nashville, Tenn. Gas-range attachment. No. 958,525; May 17; Sp. p. 4613; Gaz. vol. 154; p. 757.

O'Donohoe, Maurice P., and C. P. Ellis, Nashville, Tenn. Gas-range attachment. No. 969,558; Sept. 6; Sp. p. 877; Gaz. vol. 158; p. 138.

O'Donovan, Mary, New York, N. Y. Fastening device. No. 953,284; Mar. 29; Sp. p. 5817; Gaz. vol. 152; p. 1052.

O'Hanlon, James J., *et al.* (See Day, Charles E., assignor.)

O'Hare, Thomas, New York, N. Y. Wrench. No. 976,391; Nov. 22; Sp. p. 5125; Gaz. vol. 160; p. 869.

O'Kane, Charles. (See Ruckert, Frederick, assignor.)

O'Keefe, Daniel, Cincinnati, Ohio, assignor, by mesne assignments, to E. McFarland. Flash-back-stop tester. No. 947,396; Jan. 25; Sp. p. 5317; Gaz. vol. 150; p. 894.

O'Keefe, Daniel, Cincinnati, Ohio, assignor, by mesne assignments, to E. McFarland. Acetylene-gas generator. No. 970,100; Sept. 13; Sp. p. 2060; Gaz. vol. 158; p. 350.

O'Keenan, Charles E. J., St. Cloud, France. Electric meter. No. 957,792; May 10; Sp. p. 2746; Gaz. vol. 154; p. 470.

O'Leary, Edgar P., Pueblo, Colo. Portable fire-escape. No. 969,559; Sept. 6; Sp. p. 878; Gaz. vol. 158; p. 138.

O'Maley, James, near Loogootee, Ind. Cultivator attachment. No. 970,743; Sept. 20; Sp. p. 3443; Gaz. vol. 158; p. 589.

O'Malley-Beare Valve Company. (See O'Malley, Edward, assignor.)

O'Malley, Edward, Jackson, Tenn., assignor to O'Malley-Beare Valve Company, Chicago, Ill. Valve. No. 978,927; Dec. 20; Sp. p. 3230; Gaz. vol. 161; p. 573.

O'Malley, Edward, Jackson, Tenn., assignor to O'Malley-Beare Valve Company, Chicago, Ill. Valve. No. 978,928; Dec. 20; Sp. p. 3234; Gaz. vol. 161; p. 574.

O'Malley, Edward, Jackson, Tenn., assignor to O'Malley-Beare Valve Company, Chicago, Ill. Valve. No. 978,929; Dec. 20; Sp. p. 3236; Gaz. vol. 161; p. 574.

O'Malley, Edward, Jackson, Tenn., assignor to O'Malley-Beare Valve Company, Chicago, Ill. Valve. No. 978,930; Dec. 20; Sp. p. 3239; Gaz. vol. 161; p. 575.

O'Malley, Ira J., Chicago, Ill. Water-heater. No. 960,387; June 7; Sp. p. 304; Gaz. vol. 155; p. 51.

O'Malley, Ira J., Chicago, Ill. Water-heater. No. 978,196; Dec. 13; Sp. p. 1690; Gaz. vol. 161; p. 297.

OMeara, Elizabeth M., Providence, R. I. Abdominal belt and uterine supporter. No. 950,514; Mar. 1; Sp. p. 115; Gaz. vol. 152; p. 19.

O'Meara, James X., New York, N. Y. Window-ventilator. No. 963,637; July 5; Sp. p. 1354; Gaz. vol. 156; p. 210.

O'Neale, George L., San Jose, Cal. Weed-burning appliance. No. 955,425; Apr. 19; Sp. p. 3738; Gaz. vol. 153; p. 656.

O'Neall, William Q., *et al.* (See Michael, Anceal C., assignor.)

O'Neil, Daniel. (See Yoho, O'Neil, and Kiester.)

O'Neil, Frank J., New Britain, Conn. Combination T-square, scratch-gage, and compass. No. 970,641; Sept. 20; Sp. p. 3220; Gaz. vol. 158; p. 554.

O'Neil, George A., Chicago, Ill. Golf-bag. No. 951,448; Mar. 8; Sp. p. 2003; Gaz. vol. 152; p. 348.

O'Neil, George A., Chicago, Ill. Game apparatus. No. 969,560; Sept. 6; Sp. p. 880; Gaz. vol. 158; p. 139.

O'Neil, John F. (See Furney, Elliott E., assignor.)

O'Neil, Raymond C., Rochester, N. Y. Display-rack. No. 964,683; July 19; Sp. p. 3703; Gaz. vol. 156; p. 616.

O'Neil, William J. (See Parsons and O'Neil.)

O'Neill, Bryan J., and M. Voorhees, deceased, Peoria, Ill.; J. Conners, administrator. Car-door. No. 968,073; Aug. 23; Sp. p. 4756; Gaz. vol. 157; p. 828.

O'Neill, Charles, and W. H. Neubeck, Louisville, Ky. Flexible ball-joint. No. 959,378; May 24; Sp. p. 6394; Gaz. vol. 154; p. 1069.

O'Neill, Edward E., Sheffield, Ala. Molding-machine. No. 961,524; June 14; Sp. p. 2643; Gaz. vol. 155; p. 461.

O'Neill, George, Moncton, New Brunswick, Canada. Furnace-door. No. 970,347; Sept. 13; Sp. p. 2562; Gaz. vol. 158; p. 432.

O'Neill, John N., Georgetown, Ontario, Canada. Vehicle-pole. No. 966,117; Aug. 2; Sp. p. 576; Gaz. vol. 157; p. 94.

O'Neill, Joseph C., and J. S. Dye, Trenton, N. J. Automatic safety check-valve. No. 975,153; Nov. 8; Sp. p. 2432; Gaz. vol. 160; p. 395.

O'Neill, Lillis F., Minneapolis, Minn. Folding bath-tub. No. 951,574; Mar. 8; Sp. p. 2254; Gaz. vol. 152; p. 391.

O'Neill, William J., Chicago, Ill. Eye-cup. No. 963,933; July 12; Sp. p. 2011; Gaz. vol. 156; p. 330.

O'Quinn, Alexander H. and L. C., Jesup, Ga. Hay-press. No. 952,347; Mar. 15; Sp. p. 3802; Gaz. vol. 152; p. 680.

O'Quinn, Leonard C. (See O'Quinn, Alexander H. and L. C.)

O'Reilly, Bernard. (See Wing and O'Reilly.)

O'Shaughnessy, James F. (See Lowry, George A., assignor.)

O'Shea, John E. (See Hurley and O'Shea.)

O'Sullivan, Daniel. (See Kurrus, Henri J., assignor.)

O'Sullivan, Denis T., West Orange, N. J. Tire-tread. No. 954,333; Apr. 5; Sp. p. 1364; Gaz. vol. 153; p. 226.

O'Sullivan, Denis T., West Orange, N. J. Index or directory. No. 954,334; Apr. 5; Sp. p. 1365; Gaz. vol. 153; p. 226.

O'Toole, Edward, *et al.* (See Buffum, Frederick D., assignor.)

O'Toole, Edward. (See Buffum, Eavenson, and O'Toole.)

O'Toole, Edward, and H. N. Eavenson, Gary, W. Va. Removing coal from mines. No. 957,364; May 10; Sp. p. 1871; Gaz. vol. 154; p. 326.

O'Toole, Patrick L., Edwardsville, Ill. Conveyer and elevator. No. 967,424; Aug. 16; Sp. p. 3406; Gaz. vol. 157; p. 587.

Oakes, George W., assignor of one-fifth to J. W. Thomas, Alva, Okla. Apparatus for hoisting tubing. No. 961,420; June 14; Sp. p. 2415; Gaz. vol. 155; p. 427.

Oakes, Lester D., Watertown, N. Y. Curd-cutting machine. No. 966,587; Aug. 9; Sp. p. 1624; Gaz. vol. 157; p. 277.

Oakley, Albert H., assignor, by mesne assignments, to W. E. Oakley, Millbury, Mass. Furnace for melting metal. No. 967,421; Aug. 16; Sp. p. 3402; Gaz. vol. 157; p. 586.

Oakley, Jesse R. (See Rishel, John A., assignor.)

Oakley, William E. (See Oakley, Albert H., assignor.)

Oakman, Charles P. (See Leiter and Oakman.)

Oakman, Henry B. (See Washburne, Charles H., assignor.)

Oaks, Albert J., South Fork, Pa. Lubricator. No. 964,450; July 12; Sp. p. 3062; Gaz. vol. 156; p. 503.

Oakville Company. (See Boden, George, assignor.)

Oakville Company. (See Savage, Orrin H., assignor.)

Oates, George P. (See Packham and Oates.)

Oatley, Henry B. (See Cole and Oatley.)

Obele, Lawrence T., Philadelphia, Pa. Clothes-line reel. No. 976,826; Nov. 22; Sp. p. 6021; Gaz. vol. 160; p. 1017.

Oberg, Martin L., *et al.* (See Lawson, August, assignor.)

Oberg, William, assignor of one-half to P. Palmer, Oakland, Nebr. Starting device for internal-combustion engines. No. 953,223; Mar. 29; Sp. p. 5685; Gaz. vol. 152; p. 1033.

Alphabetical list of patentees—Continued.

Oberg, William, assignor of one-half to E. Lindahl, Oakland, Nebr. Lifting-tool for commodes and cuspidors. No. 976,282; Nov. 22; Sp. p. 4873; Gaz. vol. 160; p. 832.
Oberly, John L. (See Turck, Frederick M., assignor.)
Obermann, August W., Johnstown, Pa. Cleansing apparatus for metallic ware. No. 961,792; June 21; Sp. p. 3202; Gaz. vol. 155; p. 575.
Obermiller, Max W., New York, N. Y. Master-clock. No. 955,538; Apr. 19; Sp. p. 3964; Gaz. vol. 153; p. 696.
Obermiller, Maximillian W., New York, N. Y. Secondary clock. No. 967,959; Aug. 23; Sp. p. 4488; Gaz. vol. 157; p. 789.
Obernolte, August, Henderson, Minn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 948,146; Feb. 1; Sp. p. 756; Gaz. vol. 151; p. 124.
Oberreit, Paul E., V. Villiger, and P. Nawiasky, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Halogenated indigo and making same. No. 948,241; Feb. 1; Sp. p. 942; Gaz. vol. 151; p. 155.
Obert, Casin W., New York, N. Y. Locking-bolt. No. 960,386; June 7; Sp. p. 302; Gaz. vol. 155; p. 51.
Oberwetter, Lewis. (See Wilhite and Oberwetter.)
Oblosser, Ulysses C., Bloomsburg, Pa. Culinary implement. No. 968,968; Aug. 30; Sp. p. 6663; Gaz. vol. 157; p. 1161.
Ochs, Milton T. J., Allentown, Pa. Pneumatic tire. No. 964,049; July 12; Sp. p. 2257; Gaz. vol. 156; p. 371.
Ocumpaugh, Charles H., Rochester, N. Y. Question-voting mechanism. No. 947,497; Jan. 25; Sp. p. 5581; Gaz. vol. 150; p. 927.
Ocumpaugh, Charles H., Rochester, N. Y. Interlocking mechanism for voting-machines. No. 970,260; Sept. 13; Sp. p. 2401; Gaz. vol. 158; p. 405.
Ocumpaugh, Charles H., Rochester, N. Y. Voting-machine. No. 973,550; Oct. 25; Sp. p. 4480; Gaz. vol. 159; p. 783.
Ocumpaugh, Charles H., Rochester, N. Y. Device for independent voting. No. 977,396; Nov. 29; Sp. p. 7330; Gaz. vol. 160; p. 1240.
Oczko, Marion, *et al.* (See Torrens, Scott, assignor.)
Odatey, William G., Los Angeles, Cal. Fly-catcher. No. 970,944; Sept. 20; Sp. p. 3847; Gaz. vol. 158; p. 657.
Oddie, Philip F., London, England. Air-pump for use with condensers and the like. No. 961,000; June 7; Sp. p. 1534; Gaz. vol. 155; p. 257.
Oddie, Philip F., Wimbledon, near London, England. Direct-acting pump. No. 974,698; Nov. 1; Sp. p. 1407; Gaz. vol. 160; p. 218.
Oddo, Giuseppe, Pavia, Italy. Insecticide. No. 948,739; Feb. 8; Sp. p. 2039; Gaz. vol. 151; p. 348.
Oddo, Giuseppe, Pavia, Italy. Sulfur-burner. No. 959,250; May 24; Sp. p. 6141; Gaz. vol. 154; p. 1026.
Oddur Manufacturing Company. (See Sigurdsson, Oddur V., assignor.)
Odee & Koto Manufacturing Company. (See Odee, Thormod, assignor.)
Odee, Thormod, assignor to Odee & Koto Manufacturing Company, Beloit, Wis. Cooling system for internal-combustion engines. No. 964,542; July 19; Sp. p. 3299; Gaz. vol. 156; p. 566.
Odell, Albert P., Lima, assignor to The Odell Manufacturing Company, Toledo, Ohio. Ticket-punch. No. 945,861; Jan. 11; Sp. p. 1912; Gaz. vol. 150; p. 318.
Odell, Edward F., and G. A. Humason, Shreveport, La.; said Humason assignor of one-half to E. H. R. Flood. Rail-joint. No. 949,744; Feb. 15; Sp. p. 4090; Gaz. vol. 151; p. 709.
Odell, John B., Chicago, Ill. Type-setting machine. No. 946,768; Jan. 18; Sp. p. 3919; Gaz. vol. 150; p. 653.
Odell, John B., assignor of one-half to A. G. Leonard, Chicago, Ill. Telegraph apparatus. No. 980,118; Dec. 27; Sp. p. 5859; Gaz. vol. 161; p. 1002.
Odell Manufacturing Company, The. (See Odell, Albert P., assignor.)
Odell, Rodman, Chicago, Ill. Starting means for hydrocarbon-engines. No. 968,593; Aug. 30; Sp. p. 5864; Gaz. vol. 157; p. 1034.
Odell, Wallace, Tarrytown, N. Y. Pneumatic tire. No. 948,903; Feb. 8; Sp. p. 2367; Gaz. vol. 151; p. 403.
Odenbrett, George L., Milwaukee, Wis. Gas-engine starter. No. 945,245; Jan. 4; Sp. p. 499; Gaz. vol. 150; p. 81.
Odenkirk, Harry C., Cleveland, Ohio. Water-heater. No. 977,538; Dec. 6; Sp. p. 283; Gaz. vol. 161; p. 41.
Odenwald, John J., assignor of one-half to J. Lansburgh and I. H. Hollander, Washington, D. C. Combined switch-box and support. No. 963,315; July 5; Sp. p. 705; Gaz. vol. 156; p. 101.
Odenz, Frank S., Chicago, Ill. Key-fastener. No. 979,331; Dec. 20; Sp. p. 4146; Gaz. vol. 161; p. 714.
Odgers, Harry T., assignor to The Columbus Pharmacal Company, Columbus, Ohio. Artificial leg. No. 975,888; Nov. 15; Sp. p. 3986; Gaz. vol. 160; p. 672.
Odien, Ambrose F., and C. Dayfield, Turner, Mich. Horse-releaser. No. 972,635; Oct. 11; Sp. p. 2467; Gaz. vol. 159; p. 419.
Odon Realty Co. (See Smiley and Moore, assignors.)
Odquist, Victor, and H. H. Lyche, assignors to Torris Wold & Company, Chicago, Ill. Can-cap hemmer. No. 970,539; Sept. 20; Sp. p. 2975; Gaz. vol. 158; p. 519.
Oechsle, Theodore F. (See Tucker and Oechsle.)
Oehme, Reinhard, Brussels, Belgium, assignor to O. Volz, Berlin, Germany. Concentrating fruit-juices. No. 950,950; Mar. 1; Sp. p. 1023; Gaz. vol. 152; p. 163.
Oehmen, George F., New York, N. Y. Telegraph-sounder. No. 955,676; Apr. 19; Sp. p. 4293; Gaz. vol. 153; p. 742.
Oehmig, Paul, Chicago, Ill. Mustard-grinding mill. No. 957,997; May 17; Sp. p. 3257; Gaz. vol. 154; p. 572.
Oehring, Oscar, Berlin, Germany. Ticket-holder. No. 978,052; Dec. 6; Sp. p. 1353; Gaz. vol. 161; p. 217.
Oehring, Oscar, assignor to Heinrich Wollheim and Ossenbach, Industriegesellschaft M. B. H., Berlin, Germany. Positive feeding device for paper strips or the like. No. 950,754; Mar. 1; Sp. p. 630; Gaz. vol. 152; p. 101.
Oehring, Oscar, Berlin, Germany, assignor to American Stamp and Ticket Vending Machine Company, New York, N. Y. Roller conveying device for strips of material. No. 953,918; Apr. 5; Sp. p. 463; Gaz. vol. 153; p. 85.
Oehring, Oscar, Berlin, Germany, assignor to American Stamp and Ticket Vending Machine Company, New York, N. Y. Automatic coupling. No. 977,673; Dec. 6; Sp. p. 571; Gaz. vol. 161; p. 87.
Oehring, Oscar, Berlin, Germany, assignor to American Stamp & Ticket Vending Machine Co., New York, N. Y. Releasing device for automatic vending-machines. No. 977,674; Dec. 6; Sp. p. 572; Gaz. vol. 161; p. 87.
Oehring, Oscar, Berlin, Germany, assignor to American Stamp & Ticket Vending Machine Co., New York, N. Y. Inking device for printing-machines. No. 977,675; Dec. 6; Sp. p. 574; Gaz. vol. 161; p. 88.
Oehrle, Emanuel, Omaha, Nebr. Combination-tool. No. 968,679; Aug. 30; Sp. p. 6088; Gaz. vol. 157; p. 1065.
Oeink, John B., Fulda, Ohio. Oil-valve thread-preserver. No. 955,987; Apr. 26; Sp. p. 4978; Gaz. vol. 153; p. 880.
Oeink, John B., Fulda, Ohio. Ball-knocker. No. 969,489; Sept. 6; Sp. p. 719; Gaz. vol. 158; p. 114.
Oelkers, Henry. (See Sester and Oelkers.)
Oertly, John, Cincinnati, Ohio, and C. F. Dudley, Bellevue, Ky., assignors to O. A. Miller Treeing Machine Company, Portland, Me. Apparatus for heating tools electrically. No. 974,420; Nov. 1; Sp. p. 765; Gaz. vol. 160; p. 116.
Oeser, Ernst, Berlin, Germany. Providing bronze-powder and dust colors with a coat of varnish. No. 976,594; Nov. 22; Sp. p. 5557; Gaz. vol. 160; p. 939.
Oeste, Julius, Davis, Cal. Traction-wheel. No. 974,510; Nov. 1; Sp. p. 1001; Gaz. vol. 160; p. 149.
Oesterblom, Isaac, assignor of one-half to H. P. Wood, New York, N. Y. Steam-turbine. No. 963,927; July 12; Sp. p. 1998; Gaz. vol. 156; p. 329.
Oesterheld, Adolf, Seelze, near Hanover, Germany. Roof. No. 957,623; May 10; Sp. p. 2386; Gaz. vol. 154; p. 413.
Oettgen, Frederick W., New York, N. Y. Conductor-splicer. No. 978,630; Dec. 13; Sp. p. 2649; Gaz. vol. 161; p. 450.
Oettingen, Walter von, Wilmersdorf, Berlin, Germany. Ambulance. No. 954,760; Apr. 12; Sp. p. 2317; Gaz. vol. 153; p. 400.
Oettinger, Louis. (See Ephraim, Ferdinand, assignor.)
Oettinger, Sol, *et al.* (See Ashford, Thomas B., assignor.)
Ofenbau-Gesellschaft m. b. H. (See Bröker, Hermann A. R., assignor.)
Ofenbau-Gesellschaft mit beschränkter Haftung. (See Rauch, Hanns, assignor.)
Ofenbau-Gesellschaft mit beschrankter Haftung. (See Riecke, Paul, assignor.)
Off, Edward P., Philadelphia, Pa. Artificial tooth. No. 953,702; Apr. 5; Sp. p. 41; Gaz. vol. 153; p. 10.
Offermann, Hubert L., Leipzig, Germany. Gill-box drawing-head. No. 960,107; May 31; Sp. p. 7986; Gaz. vol. 154; p. 1342.
Offermanns, Wilhelm, Aix-la-Chapelle, Germany. Nail-making machine. No. 950,755; Mar. 1; Sp. p. 633; Gaz. vol. 152; p. 101.
Office Appliance Manufacturing Company, The. (See White, Samuel B., assignor.)
Offord, Andrew J., Grand Haven, Mich. Sled and propelling apparatus. No. 948,018; Feb. 1; Sp. p. 491; Gaz. vol. 151; p. 80.
Ogawa, Junzo, Los Angeles, Cal. Automatically-plumbed clock. No. 945,581; Jan. 4; Sp. p. 1238; Gaz. vol. 150; p. 192.
Ogborn, Joseph B., San Mateo, Cal. Window-screen. No. 971,922; Oct. 4; Sp. p. 884; Gaz. vol. 159; p. 152.
Ogburn, John H., Wenatchee, Wash. Fruit-gathering vessel. No. 953,009; Mar. 22; Sp. p. 5209; Gaz. vol. 152; p. 934.
Ogden, Edward, administrator. (See Ogden, Fredric D.)
Ogden, Fredric D., Bayonne, N. J. Cable-clip. No. 955,539; Apr. 19; Sp. p. 3968; Gaz. vol. 153; p. 696.
Ogden, Fredric D., Bayonne, N. J. Cable-hanger. No. 959,064; May 24; Sp. p. 5755; Gaz. vol. 154; p. 965.
Ogden, Fredric D., deceased, Bayonne, N. J.; E. Ogden, administrator. Door and means for operating the same. No. 962,404; June 21; Sp. p. 4531; Gaz. vol. 155; p. 782.
Ogden, Fredric D., deceased, Bayonne, N. J.; J. E. Ogden, administrator, assignor, by mesne assignments, to The Patent Appliance Company. Door and means for operating same. No. 974,699; Nov. 1; Sp. p. 1409; Gaz. vol. 160; p. 218.

Ogden, Fredric D., deceased, Bayonne, N. J.; J. E. Ogden, administrator, assignor, by mesne assignments, to The Patent Appliance Company. Coupling-bolt. No. 980,119; Dec. 27; Sp. p. 5867; Gaz. vol. 161; p. 1002.
Ogden, J. Edward, administrator. (See Ogden, Fredric D.)
Ogden, Jesse E., Penryn, Cal. Car-brace. No. 968,256; Aug. 23; Sp. p. 5166; Gaz. vol. 157; p. 890.
Ogden, John E., Brooklyn, N. Y., assignor to The Patent Appliance Company. Door and means of operating the same. No. 973,691; Oct. 25; Sp. p. 4791; Gaz. vol. 159; p. 832.
Ogden, Joseph, Salford, and R. C. Child, assignors to said Child, London, England. Centrifugal disintegrator. No. 967,042; Aug. 9; Sp. p. 2619; Gaz. vol. 157; p. 429.
Ogg, E. C., administrator. (See White, Virgil A.)
Ogilvie, David D., Lee, Nev. Guard. No. 970,099; Sept. 13; Sp. p. 2060; Gaz. vol. 158; p. 349.
Ogle, Herman, Newton, Kans. Harrow attachment for plows. No. 968,072; Aug. 23; Sp. p. 4755; Gaz. vol. 157; p. 828.
Ogle, James W., Madison, Ill. Boring-machine. No. 973,136; Oct. 18; Sp. p. 3583; Gaz. vol. 159; p. 618.
Ogle, Robert A., Chicago, Ill. Hoisting-machine. No. 963,384; July 5; Sp. p. 838; Gaz. vol. 156; p. 124.
Oglebay, John L., Rochester, Ind. Sanitary cuspidor for railway-cars. No. 951,330; Mar. 8; Sp. p. 1765; Gaz. vol. 152; p. 310.
Oheim, George F. (See Giesecke, Nebergall, and Oheim.)
Ohio Brass Company. (See Brown, John R., assignor.)
Ohio Brass Company, The. (See Denneen, Francis S., assignor.)
Ohio Brass Company, The. (See Johnston, Robert M., assignor.)
Ohio Cultivator Company, The. (See Wygant, Lewis B., assignor.)
Ohio Grease Lubricant Company, The. (See Blynt, Herbert S., assignor.)
Ohio Grease Lubricant Company, The. (See Lowry, Frank, assignor.)
Ohio Manufacturing Company, The. (See Kouns, Moses W., assignor.)
Ohio Rake Company, The. (See Lathrop, Frank K., assignor.)
Ohio Salt Company. (See Landis and Smith, assignors.)
Ohio State Stove Company, The. (See Packer, Mortimer L., assignor.)
Ohio Tool Company. (See Marks, Edward S., assignor.)
Ohio Varnish Company, The. (See Clapp, Ford M., assignor.)
Ohlgart, George P. (See Oliver and Ohlgart.)
Ohlson, Olof, Vancouver, Wash. Saw-handle. No. 972,710; Oct. 11; Sp. p. 2608; Gaz. vol. 159; p. 444.
Ohman, John T., Worcester, Mass. Attachment for thimbles. No. 967,960; Aug. 23; Sp. p. 4490; Gaz. vol. 157; p. 790.
Ohmart, Samuel M., assignor to W. S. Judy, Dayton, Ohio. Device for cutting noodles. No. 951,331; Mar. 8; Sp. p. 1767; Gaz. vol. 152; p. 310.
Ohmer Fare Register Co. (See Ohmer, John F., assignor.)
Ohmer, John F., Dayton, Ohio. Operating mechanism for fare-registers. No. 971,630; Oct. 4; Sp. p. 256; Gaz. vol. 159; p. 46.
Ohmer, John F., Dayton, Ohio. Ticket printing and auditing machine. No. 974,511; Nov. 1; Sp. p. 1002; Gaz. vol. 160; p. 149.
Ohmer, John F., assignor to Ohmer Fare Register Co., Dayton, Ohio. Fare-register. No. 974,700; Nov. 1; Sp. p. 1414; Gaz. vol. 160; p. 219.
Ohmer, Wilfred I., and J. E. McAllister, assignors to The Recording and Computing Machines Company, Dayton, Ohio. Register. No. 963,928; July 12; Sp. p. 2000; Gaz. vol. 156; p. 329.
Ohmstede, John R., Seattle, Wash. Bath-cabinet. No. 977,828; Dec. 6; Sp. p. 888; Gaz. vol. 161; p. 139.
Ohnstrand, Enoch, assignor to Art Metal Construction Company, Jamestown, N. Y. Card-index cabinet. No. 947,842; Feb. 1; Sp. p. 136; Gaz. vol. 151; p. 23.
Öhrn, Gustaf E., assignor to American Grondal Kjellin Company, New York, N. Y. Magnetic ore-separator. No. 946,394; Jan. 11; Sp. p. 3125; Gaz. vol. 150; p. 503.
Öhrn, Gustaf E., Herräng, Hafverösund, Sweden, assignor to American Gröndal Kjellin Company, New York, N. Y. Channel-kiln. No. 948,243; Feb. 1; Sp. p. 944; Gaz. vol. 151; p. 155.
Ohrynoweech, Martin, New York, N. Y. Dasher for ice-cream freezers. No. 976,684; Nov. 22; Sp. p. 5720; Gaz. vol. 160; p. 968.
Oichman, Soloman, New York, N. Y. Coat and pants hanger. No. 956,501; Apr. 26; Sp. p. 6108; Gaz. vol. 153; p. 1057.
Oil Refining Improvements Company, The. (See Hood and Salamon, assignors.)
Oil and Waste Saving Machine Company, The. (See Patterson, Thomas S., assignor.)
Oil Well Supply Company. (See Heggem, Alfred G., assignor.)
Oium, Iver I., Westby, Wis. Chimney-flue cleaner. No. 966,853; Aug. 9; Sp. p. 2220; Gaz. vol. 157; p. 364.
Ojanguren, José, Habana, Cuba. Tenoning-machine. No. 952,838; Mar. 22; Sp. p. 4873; Gaz. vol. 152; p. 877.
Olafson, Johan A., Boston, Mass. Traveling scaffold for flagpoles and the like. No. 957,473; May 10; Sp. p. 2088; Gaz. vol. 154; p. 362.
Olander, Frank J., Chicago Heights, assignor to Morden Frog & Crossing Works, Chicago, Ill. Switch-point-adjusting mechanism. No. 949,776; Feb. 22; Sp. p. 4172; Gaz. vol. 151; p. 754.
Olander, Jonas, Nekoma, Ill. Manure-spreader attachment. No. 968,788; Aug. 30; Sp. p. 6311; Gaz. vol. 157; p. 1101.
Olb, Valentine, Weehawken, N. J. Manufacture of telephone-transmitter faces and the like. No. 968,789; Aug. 30; Sp. p. 6312; Gaz. vol. 157; p. 1101.
Old, Ausborn F., Montclair, N. J., and F. Bennett, Long Island City, N. Y., assignors to The Hale and Kilburn Manufacturing Company, Philadelphia, Pa. Convertible couch. No. 954,579; Apr. 12; Sp. p. 1878; Gaz. vol. 153; p. 336.
Old, Thomas W., Montreal, Quebec, Canada, assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Manifolding-pad. No. 970,739; Sept. 20; Sp. p. 3427; Gaz. vol. 158; p. 587.
Oldaker, William J. (See Leonard and Oldaker.)
Oldenburg, Charles, Halifax, Nova Scotia, Canada. Gasolene soldering-iron. No. 970,740; Sept. 20; Sp. p. 3429; Gaz. vol. 158; p. 588.
Oldenburg, John. (See Wilson and Oldenburg.)
Oldenbusch, Ernest, New York, N. Y. Cigar-tip cutter. No. 945,341; Jan. 4; Sp. p. 735; Gaz. vol. 150; p. 113.
Oldenbusch, Ernest, New York, N. Y. Book-rack. No. 952,839; Mar. 22; Sp. p. 4876; Gaz. vol. 152; p. 878.
Oldenbusch, Ernest, New York, N. Y. Combined match box holder and cigar-cutter. No. 961,001; June 7; Sp. p. 1536; Gaz. vol. 155; p. 257.
Oldfield, James, and W. E. Nimz, Chicago, Ill. Slide and shutter operating device for magic lanterns. No. 952,346; Mar. 15; Sp. p. 3799; Gaz. vol. 152; p. 680.
Oldfield, Tom, and J. A. Schofield, Halifax, England. Resilient wheel for road-vehicles. No. 958,273; May 17; Sp. p. 3963; Gaz. vol. 154; p. 668.
Oldham, Alfred V. (See Williamson and Oldham.)
Oldham, David J. T., New York, N. Y. Dust-collector. No. 960,686; June 7; Sp. p. 912; Gaz. vol. 155; p. 151.
Oldham, Frederick C., Brooklyn, N. Y. Spring-wheel. No. 971,067; Sept. 27; Sp. p. 4108; Gaz. vol. 158; p. 727.
Oldham, Irwin M. (See Poorman, John C., assignor.)
Oldham, Joseph R., Cleveland, Ohio. Ship and ship's hatch. No. 956,152; Apr. 26; Sp. p. 5339; Gaz. vol. 153; p. 938.
Oldham, William W., Bowie, Tex. Agricultural implement. No. 974,512; Nov. 1; Sp. p. 1011; Gaz. vol. 160; p. 150.
Olds, Charles L., assignor of one-half to E. Frederickson, Enid, Okla. Mouse-proof piano key-frame. No. 963,929; July 12; Sp. p. 2006; Gaz. vol. 156; p. 329.
Olds, Frederick P., Berea, Ohio. Blade-sharpening machine. No. 945,137; Jan. 4; Sp. p. 262; Gaz. vol. 150; p. 46.
Olds, Frederick P., assignor of one-half to W. F. Wieland, Berea, and one-half to F. H. Leick, Cleveland, Ohio. Blade-sharpening machine. No. 979,879; Dec. 27; Sp. p. 5334; Gaz. vol. 161; p. 923.
Olds, Frederick P., Beauchamp, Saskatchewan, Canada, assignor of one-half to W. F. Wieland, Berea, and one-half to F. H. Leick, Cleveland, Ohio. Tool-rest. No. 979,880; Dec. 27; Sp. p. 5336; Gaz. vol. 161; p. 923.
Olds Motor Works. (See Dunham, George W., assignor.)
Olds, Ransom E., assignor to Reo Motor Car Company, Lansing, Mich. Convertible automobile-body. No. 952,575; Mar. 22; Sp. p. 4293; Gaz. vol. 152; p. 786.
Oleson, Albert, Toledo, Ohio. Lightning-arrester. No. 946,982; Jan. 18; Sp. p. 4418; Gaz. vol. 150; p. 727.
Oleson, Albert, Toledo, Ohio. Air-brake or train-pipe valve. No. 956,153; Apr. 26; Sp. p. 5343; Gaz. vol. 153; p. 938.
Oleson, Olaf E. (See Sargent, Frederick, assignor.)
Oleson, Olaf E., Chicago, Ill. Pipe-coupling. No. 959,960; May 31; Sp. p. 7659; Gaz. vol. 154; p. 1292.
Oleson, Olaf E., Chicago, Ill. Valve. No. 963,385; July 5; Sp. p. 845; Gaz. vol. 156; p. 125.
Olian, Leslie, St. Louis, Mo. Lantern-holder. No. 979,550; Dec. 27; Sp. p. 4605; Gaz. vol. 161; p. 810.
Oligny, Jean D., assignor to Peat Gas and Coal Company, Montreal, Quebec, Canada. Peat-gas-producing process. No. 977,469; Dec. 6; Sp. p. 90; Gaz. vol. 161; p. 17.
Olin, Anders F. (See Graves and Olin.)
Olin, Oscar A., Lafayette, Minn. Dispensing-can. No. 946,769; Jan. 18; Sp. p. 3930; Gaz. vol. 150; p. 654.
Oling, John J., Harvey, Ill. Extension car-step. No. 961,002; June 7; Sp. p. 1537; Gaz. vol. 155; p. 257.
Oliphant, Jacob T., and O. Ring; said Ring assignor to C. A. Lloyd, Farmersburg, Ind. Tedder attachment for harvesters. No. 962,662; June 28; Sp. p. 5124; Gaz. vol. 155; p. 895.
Oliphant, Stephen D., Beaver, Pa. Furnace construction. No. 949,402; Feb. 15; Sp. p. 3424; Gaz. vol. 151; p. 598.
Oliver, Albert. (See Roche, John, assignor.)
Oliver, Albert. (See Roche and Oliver.)

Alphabetical list of patentees—Continued.

Oliver, Arthur A., Calera, Ala. Floor-clamp. No. 964,305; July 12; Sp. p. 2777; Gaz. vol. 156; p. 458.
Oliver Chilled Plow Works. (See Davis, Calvin R., assignor.)
Oliver Chilled Plow Works. (See Paul, William L., assignor.)
Oliver, Doctor F., Fruitvale, Cal. Pencil-sharpener. No. 979,688; Dec. 27; Sp. p. 4898; Gaz. vol. 161; p. 858.
Oliver, Ernest W., *et al.* (See McKinnon, Donald J., assignor.)
Oliver, Frederick, Charlotte, N. C. Bath-tub. No. 949,303; Feb. 15; Sp. p. 3189; Gaz. vol. 151; p. 562.
Oliver, Henry T., Newark, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 955,424; Apr. 19; Sp. p. 3736; Gaz. vol. 153; p. 656.
Oliver, Herbert R., and G. P. Ohlgart, assignors to The American Automatic Shoe Polishing Machine Co., Baltimore, Md. Shoe-polishing machine. No. 953,919; Apr. 5; Sp. p. 464; Gaz. vol. 153; p. 85.
Oliver, John G., Cleveland, Ohio. Independent stop mechanism for turret-lathes. No. 976,904; Nov. 29; Sp. p. 6209; Gaz. vol. 160; p. 1069.
Oliver, Pedro M., Barcelona, Spain. Telephonic apparatus. No. 951,695; Mar. 8; Sp. p. 2486; Gaz. vol. 152; p. 432.
Oliver Roche Company. (See Roche and Oliver, assignors.)
Oliver, Roland L., Oakland, assignor to California Cap Company, San Francisco, Cal. Delayed-action electric exploder. No. 954,689; Apr. 12; Sp. p. 2132; Gaz. vol. 153; p. 373.
Oliver Tri-Chromatic Company, The. (See Oliver, William E., assignor.)
Oliver Typewriter Company, The. (See Ingersoll, Emmett M., assignor.)
Oliver Typewriter Company, The. (See Knapp, Theron L., assignor.)
Oliver Typewriter Company, The. (See Knapp and Harting, assignors.)
Oliver Typewriter Company, The. (See Mark, William E., assignor.)
Oliver, Walter I. (See Cardarelli, Emilio, assignor.)
Oliver, William E., assignor to The Oliver Tri-Chromatic Company, Washington, D. C. Exhibiting motion-pictures in natural colors. No. 973,961; Oct. 25; Sp. p. 5330; Gaz. vol. 159; p. 926.
Oliver, William E., assignor to The Oliver Tri-Chromatic Company, Washington, D. C. Projecting photographic images in natural colors. No. 973,962; Oct. 25; Sp. p. 5332; Gaz. vol. 159; p. 927.
Olivier, Paul, Paris, France, assignor to General Electric Company. Governing mechanism for elastic-fluid turbines. No. 957,898; May 17; Sp. p. 2966; Gaz. vol. 154; p. 536.
Ollagnier, Barthelémy. (See Chavanne and Ollagnier.)
Oller, Oscar B., and C. M. Hill, Highland, Cal. Vehicle-shaft holder. No. 956,154; Apr. 26; Sp. p. 5347; Gaz. vol. 153; p. 939.
Olley, Raymond H., Syracuse, N. Y. Panel-board. No. 977,123; Nov. 29; Sp. p. 6736; Gaz. vol. 160; p. 1147.
Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Panel-board cut-out and distributing mechanism. No. 970,741; Sept. 20; Sp. p. 3431; Gaz. vol. 158; p. 588.
Ollinger, Charles G. (See Kjilberg, John E., assignor.)
Ollmann, Robert F., Hamilton, Ontario, Canada. Brick-machine. No. 945,246; Jan. 4; Sp. p. 502; Gaz. vol. 150; p. 82.
Olm, Oscar J., Minneapolis, Minn. Envelop. No. 958,819; May 24; Sp. p. 5227; Gaz. vol. 154; p. 882.
Olman, Jacob, New York, N. Y. Door-hanger. No. 947,930; Feb. 1; Sp. p. 310; Gaz. vol. 151; p. 52.
Olmsted, Bertrand C., Deer Creek, Okla. Shovel. No. 969,975; Sept. 13; Sp. p. 1802; Gaz. vol. 158; p. 306.
Olmsted, Clarence E. (See Spellman and Olmsted.)
Olmsted, Elmer S., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Switch-operating mechanism. No. 978,053; Dec. 6; Sp. p. 1357; Gaz. vol. 161; p. 218.
Olmsted, Rosa M., Columbus, Ind. Invalid's chair. No. 956,155; Apr. 26; Sp. p. 5348; Gaz. vol. 153; p. 939.
Olney, Arthur G. (See Llewellyn and Olney.)
Olney Automobile Company. (See Bastian, Martin L., assignor.)
Olop, Stephen, assignor of one-half to F. H. Hough, Washington, D. C. Figured toy. No. 955,677; Apr. 19; Sp. p. 4295; Gaz. vol. 153; p. 743.
Olp, Fred G., Nunda, N. Y. Feeder for concrete-mixers. No. 974,588; Nov. 1; Sp. p. 1173; Gaz. vol. 160; p. 179.
Olsen, Albert B., Stearns, Mont. Draft-equalizer. No. 960,687; June 7; Sp. p. 914; Gaz. vol. 155; p. 152.
Olsen, Carl M., Birkeröd, near Sandefjord, Norway. Steam-boiler. No. 973,692; Oct. 25; Sp. p. 4794; Gaz. vol. 159; p. 833.
Olsen, Charles E. (See Funcheon and Olsen.)
Olsen, Edward, *et al.* (See Cornatzer, Samuel L., assignor.)
Olsen, Haakon T., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electrical apparatus. No. 968,594; Aug. 30; Sp. p. 5865; Gaz. vol. 157; p. 1034.
Olsen, John, Watertown, N. Y. Plup-screen. No. 974,513; Nov. 1; Sp. p. 1012; Gaz. vol. 160; p. 150.
Olsen, Martin J., *et al.* (See Henry, Charles J., assignor.)
Olsen, Reinert, San Francisco, Cal. Railway-tie. No. 967,043; Aug. 9; Sp. p. 2620; Gaz. vol. 157; p. 429.
Olsen, Samuel N., assignor to Spring Bearing Truck Company, Milwaukee, Wis. Caster. No. 968,790; Aug. 30; Sp. p. 6313; Gaz. vol. 157; p. 1101.
Olson, Adna. (See Edwards and Olson.)
Olson, Alfred A., Riverside, Ill. Steam-boiler. No. 967,961; Aug. 23; Sp. p. 4491; Gaz. vol. 157; p. 790.
Olson, Andy. (See Walling and Olson.)
Olson, Arvid J., Kloten, N. D. Cleaning attachment for harrows. No. 962,579; June 28; Sp. p. 4958; Gaz. vol. 155; p. 868.
Olson, Charles A., assignor to Crane Company, Chicago, Ill. Pipe-cutting machine. No. 979,551; Dec. 27; Sp. p. 4606; Gaz. vol. 161; p. 810.
Olson, Charles S., assignor of one-half to M. C. Albenberg, Duluth, Minn. Condiment-shaker. No. 968,257; Aug. 23; Sp. p. 5168; Gaz. vol. 157; p. 890.
Olson, Charles W., Rainier, Oreg. Combined snap-hook and swivel. No. 963,931; July 12; Sp. p. 2009; Gaz. vol. 156; p. 330.
Olson, Charles W., assignor of one-half to C. Linge, Portland, Oreg. Vehicle-brake. No. 963,930; July 12; Sp. p. 2008; Gaz. vol. 156; p. 330.
Olson, Claus A., assignor of one-half to F. B. Cundy, Hibbing, Minn. Railway-tie. No. 959,065; May 24; Sp. p. 5757; Gaz. vol. 154; p. 965.
Olson, Emil, Rockford, Ill. Curb-shaping tool. No. 978,631; Dec. 13; Sp. p. 2650; Gaz. vol. 161; p. 450.
Olson, Freeman M., assignor to Commercial Motor Car and Engine Co., Chicago, Ill. Driving mechanism for motor-vehicles. No. 960,688; June 7; Sp. p. 915; Gaz. vol. 155; p. 152.
Olson, George, *et al.* (See Semsmon, Andrew O., assignor.)
Olson, Gustaf, and J. Persson, Chicago, Ill. Hinge. No. 948,073; Feb. 1; Sp. p. 617; Gaz. vol. 151; p. 100.
Olson, Gustav A., Albert Lea, Minn. Litter-carrier. No. 978,331; Dec. 13; Sp. p. 1987; Gaz. vol. 161; p. 346.
Olson, Gustav A., Albert Lea, Minn. Litter-carrier. No. 978,332; Dec. 13; Sp. p. 1989; Gaz. vol. 161; p. 346.
Olson, Gustav A., Albert Lea, Minn. Sectional track. No. 979,028; Dec. 20; Sp. p. 3474; Gaz. vol. 161; p. 609.
Olson, Gustave R., and D. Hiatt, Plattsmouth, Nebr. Photographic-printing machine. No. 970,742; Sept. 20; Sp. p. 3434; Gaz. vol. 158; p. 589.
Olson, Isak, Bellingham, Wash. Package-binder. No. 978,632; Dec. 13; Sp. p. 2651; Gaz. vol. 161; p. 450.
Olson, Julius, assignor to Hansell-Elcock Company, Chicago, Ill. Bending and straightening machine. No. 963,636; July 5; Sp. p. 1352; Gaz. vol. 156; p. 210.
Olson, Karl J., Gladstone, Mich. Self-waiting table. No. 958,672; May 17; Sp. p. 4893; Gaz. vol. 154; p. 808.
Olson, Martin K., Louisburg, Minn. Wrench. No. 967,962; Aug. 23; Sp. p. 4493; Gaz. vol. 157; p. 790.
Olson, Mauritz. (See Nilson and Olson.)
Olson, Nels L., Butte, Mont. Adjustable plow-point. No. 974,701; Nov. 1; Sp. p. 1415; Gaz. vol. 160; p. 219.
Olson, Olaf J., Clontarf, Minn. Grain-door for cars. No. 976,284; Nov. 22; Sp. p. 4875; Gaz. vol. 160; p. 832.
Olson, Olof P., Broadview, Saskatchewan, Canada. Dust-pan. No. 953,756; Apr. 5; Sp. p. 148; Gaz. vol. 153; p. 28.
Olson, Peter G., St. Paul, Minn. Gage-guard. No. 966,468; Aug. 9; Sp. p. 1319; Gaz. vol. 157; p. 235.
Olson, Salve, Walworth, Wis. File attachment. No. 953,544; Mar. 29; Sp. p. 6385; Gaz. vol. 152; p. 1143.
Olson, Walter S., Brownsdale, Minn. Flying toy bird. No. 964,803; July 19; Sp. p. 3954; Gaz. vol. 156; p. 657.
Olsson, Albin, Seattle, Wash. Fly-paper holder. No. 975,152; Nov. 8; Sp. p. 2431; Gaz. vol. 160; p. 394.
Olsson, Emil, Bofors, Sweden. Sighting apparatus for ordnance. No. 950,078; Feb. 22; Sp. p. 4887; Gaz. vol. 151; p. 860.
Olsson, Emilio, Buenos Ayres, Argentina. Irrigation apparatus. No. 958,937; May 24; Sp. p. 5498; Gaz. vol. 154; p. 922.
Olsson, Emilio, Buenos Ayres, Argentina. Insecticide. No. 963,932; July 12; Sp. p. 2010; Gaz. vol. 156; p. 330.
Olsson, Gustaf, assignor to Jönköpings & Vulcans Tändsticksfabriksaktiebolag, Jönköping, Sweden. Machine for manufacturing match-boxes. No. 980,120; Dec. 27; Sp. p. 5869; Gaz. vol. 161; p. 1003.
Olsson, Henry A., assignor to Multi-Seal Manufacturing Company, Brooklyn, N. Y. Machine for capping bottles. No. 968,791; Aug. 30; Sp. p. 6313; Gaz. vol. 157; p. 1101.
Olsson, Henry A., assignor to Multi-Seal Manufacturing Company, Brooklyn, N. Y. Bottle-capper. No. 968,792; Aug. 30; Sp. p. 6319; Gaz. vol. 157; p. 1102.
Olsson, Johan G., assignor to Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jönköping, Sweden. Machine for manufacturing drawers for match-boxes and the like. No. 978,195; Dec. 13; Sp. p. 1689; Gaz. vol. 161; p. 297.

Olsson, John W., New York, N. Y., assignor of one-fourth to R. F. Greenfield, High Bridge, N. J. Folding umbrella. No. 974,811; Nov. 8; Sp. p. 1655; Gaz. vol. 160; p. 277.
Olsson, Per, Liarum, Linderöd, Sweden. Cultivator. No. 949,244; Feb. 15; Sp. p. 3061; Gaz. vol. 151; p. 542.
Olsson, Zacharias, Upsala, assignor to Gunnar Sigge Andreas Appelgvist, Stockholm, Sweden. Producing objects from plastic material. No. 954,991; Apr. 12; Sp. p. 2826; Gaz. vol. 153; p. 479.
Olus Manufacturing Co., The. (See Quigley, Edward J., assignor.)
Omalia, Michael, assignor of one-sixth to W. S. Robinson and one-sixth to W. W. Baylor, Scranton, Pa. Nutlock. No. 970,101; Sept. 13; Sp. p. 2062; Gaz. vol. 158; p. 350.
Omeliah, Clarence, New York, N. Y. Spool. No. 948,430; Feb. 8; Sp. p. 1371; Gaz. vol. 151; p. 244.
Omick, William K., Detroit, Mich. Automatic railway air-brake. No. 963,465; July 5; Sp. p. 1008; Gaz. vol. 156; p. 152.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Sewing Machine Co., Chicago, Ill. Hemstitch sewing-machine. No. 962,973; June 28; Sp. p. 5718; Gaz. vol. 155; p. 1003.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 962,974; June 28; Sp. p. 5723; Gaz. vol. 155; p. 1003.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for blindstitch-machines. No. 976,095; Nov. 15; Sp. p. 4392; Gaz. vol. 160; p. 744.
Oneal, Sidney E., Wortham, Miss. Repair-link. No. 955,426; Apr. 19; Sp. p. 3739; Gaz. vol. 153; p. 656.
Oneida Community. (See Leonard, Stephen R., assignor.)
Oneida Community Limited. (See Noyes, Pierrepont B., assignor.)
Oneida Steel Pulley Company. (See Shepard, Edgar T., assignor.)
Onsrud, Oscar, Chicago, Ill. Automatic cut-off governor. No. 967,963; Aug. 23; Sp. p. 4494; Gaz. vol. 157; p. 790.
Ontario Nickel Company, The. (See Gates and Dow, assignors.)
Oosdyke, Marinues. (See Chandler and Oosdyke.)
Opie, Edwin F., Philadelphia, Pa. Awning. No. 967,964; Aug. 23; Sp. p. 4501; Gaz. vol. 157; p. 791.
Opie, Mary L., Philadelphia, Pa. Grater. No. 973,693; Oct. 25; Sp. p. 4795; Gaz. vol. 159; p. 833.
Opitz, Frank E, Longbeach, assignor to B. Brown and E. H. Sparling, Los Angeles, Cal. Lawn-sprinkler. No. 961,251; June 14; Sp. p. 2045; Gaz. vol. 155; p. 369.
Opitz, Frank E., and B. F. Caldwell, Pomona, Cal. Shield for sprinkler-heads. No. 964,178; July 12; Sp. p. 2514; Gaz. vol. 156; p. 413.
Oppenheimer, A. C., *et al.* (See Wolentarsky, Charles, assignor.)
Oppenheimer, Daniel, Mainz, Germany. Packing-case and the like. No. 945,582; Jan. 4; Sp. p. 1239; Gaz. vol. 150; p. 192.
Oppenheimer, James, Omaha, Nebr. Comb-cleaner. No. 961,252; June 14; Sp. p. 2047; Gaz. vol. 155; p. 369.
Oppermann, Frederick M., St. Servais, Belgium. Mode and means for manufacture of sheet-glass. No. 954,457; Apr. 12; Sp. p. 1616; Gaz. vol. 153; p. 295.
Opperud, Joseph, Madison, S. D. Animal-trap. No. 965,318; July 26; Sp. p. 5004; Gaz. vol. 156; p. 861.
Opsata, Martin S., Grano, N. D. Gang-plow. No. 964,179; July 12; Sp. p. 2515; Gaz. vol. 156; p. 413.
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Heinrich, Jacob, assignor.)
Optische Anstalt C. P. Goerz Actiengesellschaft. (See Humbrecht, Jules, assignor.)
Optische Anstalt C. P. Goerz, Aktiengesellschaft. (See Schmuck, Joseph, assignor.)
Oram, John S., Cleveland, Ohio. Windlass. No. 954,332; Apr. 5; Sp. p. 1358; Gaz. vol. 153; p. 225.
Orange, Daniel F., *et al.* (See MacLachlan, John C., assignor.)
Orange Machine and Manufacturing Company. (See Davis, Thomas, assignor.)
Orchard, Arthur L., assignor to Case Brothers Cutlery Co., Little Valley, N. Y. Scale-fastening for pocket-knives. No. 970,540; Sept. 20; Sp. p. 2984; Gaz. vol. 158; p. 519.
Orcutt, Charles D., North Tonawanda, assignor to Buffalo Sled Company, Buffalo, N. Y. Wheeled coaster. No. 967,422; Aug. 16; Sp. p. 3403; Gaz. vol. 157; p. 586.
Orcutt, Charles D., North Tonawanda, assignor to Buffalo Sled Company, Buffalo, N. Y. Brake for wheeled vehicles or roller-coasters. No. 967,423; Aug. 16; Sp. p. 3404; Gaz. vol. 157; p. 587.
Ord, Craven R., McAdam Junction, New Brunswick, Canada. Rotary engine. No. 968,969; Aug. 30; Sp. p. 6664; Gaz. vol. 157; p. 1161.
Ordnance Improvement Company. (See Gerdom, Gregory, assignor.)
Orelli, Agostine J., Longbeach, Cal. Rechargeable electric fuse. No. 961,891; June 21; Sp. p. 3437; Gaz. vol. 155; p. 608.
Orenstein, Max., Berlin, Germany. Dumping-car. No. 966,237; Aug. 2; Sp. p. 846; Gaz. vol. 157; p. 134.
Orgaard, Carl, Wheelock, assignor of one-half to J. O. Halvorson, Williston, N. D. Display apparatus. No. 953,796; Apr. 5; Sp. p. 227; Gaz. vol. 153; p. 41.
Orgaard, Carl, Wheelock, assignor of one-half to J. O. Halvorson, Williston, N. D. Lamp. No. 971,631; Oct. 4; Sp. p. 258; Gaz. vol. 159; p. 46.
Orient Manufacturing Company. (See Devine, William P., assignor.)
Ormiston, Perley L., Days Creek, Oreg. Gate-opener. No. 979,689; Dec. 27; Sp. p. 4900; Gaz. vol. 161; p. 859.
Ormsby, James Q., Hyannis, Nebr. Hame-hook. No. 955,427; Apr. 19; Sp. p. 3742; Gaz. vol. 153; p. 657.
Ormsby, John W., Milwaukee, Wis. Ash-sifter. No. 967,826; Aug. 16; Sp. p. 4217; Gaz. vol. 157; p. 721.
Ornas, Thomas, Chicago, Ill. Glove. No. 956,156; Apr. 26; Sp. p. 5350; Gaz. vol. 153; p. 939.
Oross, John K., Vulcan, W. Va. Padlock. No. 963,466; July 5; Sp. p. 1009; Gaz. vol. 156; p. 152.
Orosz, Stephen, Motana Mines, W. Va. Horseshoe. No. 957,707; May 10; Sp. p. 2558; Gaz. vol. 154; p. 443.
Orr, Asa O., Belle Vernon, Pa. Wrench. No. 947,619; Jan. 25; Sp. p. 5837; Gaz. vol. 150; p. 969.
Orr, Edward E., assignor of one-half to T. McCormick, Mount Hope, Kans. Fence-wire fastener. No. 946,848; Jan. 18; Sp. p. 4120; Gaz. vol. 150; p. 682.
Orr, Edward E., assignor of one-half to T. McCormick, Mount Hope, Kans. Mold. No. 954,645; Apr. 12; Sp. p. 2037; Gaz. vol. 153; p. 359.
Orr, Fingal C. (See Orr, Mark L. and F. C.)
Orr, James R., Fresno, Cal. Wheeled cultivator. No. 946,644; Jan. 18; Sp. p. 3651; Gaz. vol. 150; p. 612.
Orr, Mark L. and F. C., Stillorgan, Ireland. Bottle-stopper. No. 946,559; Jan. 18; Sp. p. 3477; Gaz. vol. 150; p. 585.
Orrman, Hjalmar L., Dayton, Ohio. Paper-making machinery. No. 965,319; July 26; Sp. p. 5007; Gaz. vol. 156; p. 862.
Orsoni, Philippe, Paris, France. Machine for rectifying stereotype-plates. No. 973,807; Oct. 25; Sp. p. 5020; Gaz. vol. 159; p. 873.
Országh, John. (See Országh, Joseph and J.)
Orszag, Joseph, Ashtabula Harbor, Ohio. Cuspidor. No. 956,407; Apr. 26; Sp. p. 5895; Gaz. vol. 153; p. 1025.
Országh, Joseph and J., Ashtabula, Ohio. Trolley. No. 971,399; Sept. 27; Sp. p. 4772; Gaz. vol. 158; p. 835.
Ort, Josef K. (See Ort, Rieger, and Ort.)
Ort, Karel, Kostice on Eger, J. Rieger, Domausice, near Louny, and J. K. Ort, Kostice on Eger, Austria-Hungary. Device to be used as telephone-receiver. No. 963,934; July 12; Sp. p. 2012; Gaz. vol. 156; p. 331.
Ortell, Bertha, St. Paul, Minn. Hose-supporter. No. 958,425; May 17; Sp. p. 4413; Gaz. vol. 154; p. 722.
Orth, John G. (See Weston and Orth.)
Orthmann, Alfred, Elberfeld, Germany. Braiding-machine. No. 949,245; Feb. 15; Sp. p. 3062; Gaz. vol. 151; p. 542.
Ortiz, Daniel, Port Townsend, Wash. Egg-stamp. No. 969,898; Sept. 13; Sp. p. 1633; Gaz. vol. 158; p. 281.
Orton, George M. (See Fogg, Charles F., assignor.)
Ortt, Kate, Sanborn, N. Y. Heater. No. 972,314; Oct. 11; Sp. p. 1742; Gaz. vol. 159; p. 306.
Ortwein, George A., Maple Falls, Wash. Automatic shingle-stamp. No. 947,345; Jan. 25; Sp. p. 5211; Gaz. vol. 150; p. 877.
Orwig, Joseph R., Des Moines, Iowa. Corrugated metal culvert. No. 971,400; Sept. 27; Sp. p. 4774; Gaz. vol. 158; p. 835.
Osborn, Alden E. (See Carlson, Osborn, and Angelino.)
Osborn, Alden E., New York, N. Y. Vaporizer heating device. No. 946,806; Jan. 18; Sp. p. 4026; Gaz. vol. 150; p. 668.
Osborn, Alden E., New York, N. Y., assignor to Carlson Motor & Truck Company, Philadelphia, Pa. Transmission-gearing. No. 970,744; Sept. 20; Sp. p. 3444; Gaz. vol. 158; p. 589.
Osborn, Francis C., Detroit, Mich. Paper-tube machine. No. 945,862; Jan. 11; Sp. p. 1914; Gaz. vol. 150; p. 318.
Osborn, Francis C., Detroit, Mich., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 969,113; Aug. 30; Sp. p. 6958; Gaz. vol. 157; p. 1211.
Osborn, Frederick H., Garrison, N. Y. Sound-reproducing machine and record therefor. No. 956,727; May 3; Sp. p. 491; Gaz. vol. 154; p. 78.
Osborn, Guy, assignor to Shrp-Shavr Razor Company, New York, N. Y. Safety-razor. No. 950,113; Feb. 22; Sp. p. 4955; Gaz. vol. 151; p. 872.
Osborn, Jasper N., Winfield, Iowa. Screen or shoe for fanning-mills. No. 951,332; Mar. 8; Sp. p. 1768; Gaz. vol. 152; p. 311.
Osborn, Joseph B., Lebanon, Ohio. Corn-husking machine. No. 966,238; Aug. 2; Sp. p. 847; Gaz. vol. 157; p. 135.
Osborn, Josiah, Los Angeles, Cal. Fruit-box press. No. 958,163; May 17; Sp. p. 3739; Gaz. vol. 154; p. 632.
Osborn, Lemon L., Portland, Oreg. Hydraulic water-motor. No. 962,382; June 21; Sp. p. 4486; Gaz. vol. 155; p. 774.
Osborn Manufacturing Co., The. (See Atwater, Harry R., assignor.)

Alphabetical list of patentees—Continued.

Osborn Manufacturing Company, The. (See Molder, Henry M., assignor.) (Reissue.)
Osborn Manufacturing Company, The. (See Nielson, Henry, assignor.)
Osborn Manufacturing Company, The. (See Rice, Edward E., assignor.)
Osborn Manufacturing Company, The. (See Sturdevant, Linley E., assignor.)
Osborn, Sidney S., Germiston, Transvaal. Tube-mill lining. No. 965,730; July 26; Sp. p. 5905; Gaz. vol. 156; p. 1004.
Osborn, William B., Clarksburg, W. Va. Garbage-can. No. 950,456; Feb. 22; Sp. p. 5625; Gaz. vol. 151; p. 987.
Osborn, William D., South Bend, Ind. Clamp-press. No. 957,793; May 10; Sp. p. 2748; Gaz. vol. 154; p. 470.
Osborne, Charles W., Lubbock, Tex. Drainage system. No. 963 316; July 5; Sp. p. 708; Gaz. vol. 156; p. 101.
Osborne, Edward C. (See Stubbs, Clarence E., assignor.)
Osborne, Eugene F., assignor to H. A. Branch, Chicago, Ill. Compressing air, gas, or other gaseous fluids. No. 960,233; May 31; Sp. p. 8231; Gaz. vol. 154; p. 1385.
Osborne, Eugene F., assignor to Osborne Steam Engineering Company, Chicago, Ill. Apparatus for superheating steam. No. 971,777; Oct. 4; Sp. p. 556; Gaz. vol. 159; p. 97.
Osborne, Eugene F., assignor to Osborne Steam Engineering Company, Chicago, Ill. Flanged fitting end. No. 977,032; Nov. 29; Sp. p. 6530; Gaz vol. 160; p. 1115.
Osborne, Heman, Springfield, Mass. Shutter-worker. No. 953,703; Apr. 5; Sp. p. 42; Gaz. vol. 153; p. 10.
Osborne, John L., Erie, Pa. Combined governor and regulator for air-compressors. No. 963,803; July 12; Sp. p. 1728; Gaz. vol. 156; p. 288.
Osborne, John W. (See Smithson and Osborne.)
Osborne Steam Engineering Company. (See Osborne, Eugene F., assignor.)
Osborne, William L., Chicago, Ill. Relief or safety valve. No. 970,348; Sept. 13; Sp. p. 2563; Gaz. vol. 158; p. 433.
Osborne, William L., Chicago, Ill. Quick-opening valve. No. 971,552; Oct. 4; Sp. p. 88; Gaz. vol. 159; p. 17.
Osborne, William L., Chicago, Ill. Valve. No. 973,551; Oct. 25; Sp. p. 4490; Gaz. vol. 159; p. 783.
Osborne, William S., Hyde Park, Mass., assignor, by mesne assignments, to American Desiccating Company. Desiccating fluid substances. No. 962,781; June 28; Sp. p. 5370; Gaz. vol. 155; p. 938.
Osburn, Harry G., Hoboken, N. J. Indicating device. No. 955,988; Apr. 26; Sp. p. 4980; Gaz. vol. 153; p. 880.
Osburn, Harry G., Detroit Mich. Electric ignition apparatus. No. 978,197; Dec. 13; Sp. p. 1696; Gaz. vol. 161; p. 298.
Oscar Barnett Foundry Company, The. (See Clark, Edward C., assignor.)
Ose, Knute E., assignor of one-half to H. O. Hamme, Echo, Minn. Feeding attachment for threshing-machines. No. 945,283; Jan. 4; Sp. p. 575; Gaz. vol. 150; p. 94.
Osgood, Edward D., and A. E. Rhoades, assignors to Draper Company, Hopedale, Mass. Weft-replenishing loom. No. 972,904; Oct. 18; Sp. p. 3060; Gaz. vol. 159; p. 539.
Osgood, Frank H. (See Rasche, Heinrich, assignor.)
Osher, Nels B., Estherville, Iowa. Churn. No. 959,877; May 31; Sp. p. 7463; Gaz. vol. 154; p. 1261.
Oshkosh Grass Matting Company. (See Perrigo, Orville L., assignor.)
Osincup, Frank A., Waverly, Iowa. Dispensing and measuring valve. No. 951,511; Mar. 8; Sp. p. 2135; Gaz. vol. 152; p. 370.
Oskamp, William H., Cincinnati, Ohio. Refrigerated serving-dish. No. 950,239; Feb. 22; Sp. p. 5229; Gaz. vol. 151; p. 917.
Oskrit, Frank, Pittsfield, Mass. Bobbin-holder for spinning-spindles. No. 970,745; Sept. 20; Sp. p. 3450; Gaz. vol. 158; p. 590.
Oslund, Charles H., Worcester, Mass. Drill. No. 963,317; July 5; Sp. p. 709; Gaz. vol. 156; p. 102.
Oslund, Charles H., Worcester, Mass. Apparatus for starting gas-engines. No. 975,567; Nov. 15; Sp. p. 3324; Gaz. vol. 160; p. 564.
Osmer, John E., Chicago, Ill. Brake-shoe. No. 945,409; Jan. 4; Sp. p. 880; Gaz. vol. 150; p. 136.
Osmer, John E., Chicago, Ill. Journal-box. No. 975,449; Nov. 15; Sp. p. 3059; Gaz. vol. 160; p. 522.
Osmer, John E., Chicago, Ill. Fluid-pressure-actuated vise. No. 976,285; Nov. 22; Sp. p. 4876; Gaz. vol. 160; p. 833.
Osmer, John E., assignor to Allis-Chalmers Company, Milwaukee, Wis. Engineer's valve. No. 978,393; Dec. 13; Sp. p. 2114; Gaz. vol. 161; p. 368.
Ossart, Georges A. (See Germain and Ossart.)
Ossenbeck, Anton. (See Kahn and Ossenbeck.)
Ostberg, Anders J., St. Kilda, Victoria, Australia. Manufacturing substitutes for leather-board. No. 976,827; Nov. 22; Sp. p. 6022; Gaz. vol. 160; p. 1017.
Osteman, Carl G. (See Blood and Osteman.)
Oster, Heinrich, Charlottenburg, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Azo dye for chromed wool and making same. No. 949,633; Feb. 15; Sp. p. 3862; Gaz. vol. 151; p. 673.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Nipple-threading mechanism. No. 948,793; Feb. 8; Sp. p. 2152; Gaz. vol. 151; p. 366.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 965,320; July 26; Sp. p. 5011; Gaz. vol. 156; p. 862.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Threading-machine. No. 965,402; July 26; Sp. p. 5180; Gaz. vol. 156; p. 889.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 965,403; July 26; Sp. p. 5182; Gaz. vol. 156; p. 889.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 965,404; July 26; Sp. p. 5184; Gaz. vol. 156; p. 890.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock for cutting tapered threads. No. 977,539; Dec. 6; Sp. p. 285; Gaz. vol. 161; p. 42.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Thread-cutting mechanism. No. 977,540; Dec. 6; Sp. p. 287; Gaz. vol. 161; p. 42.
Oster, Herman W., Cleveland, Ohio, assignor to The Oster Manufacturing Company. Die-stock. No. 977,541; Dec. 6; Sp. p. 290; Gaz. vol. 161; p. 43.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 979,789; Dec. 27; Sp. p. 5132; Gaz. vol. 161; p. 892.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 979,790; Dec. 27; Sp. p. 5134; Gaz. vol. 161; p. 893.
Oster Manufacturing Company, The. (See Oster, Herman W., assignor.)
Osterberg, Robert, Norway, Mich., assignor to Sullivan Machinery Company, Chicago, Ill. Measuring instrument. No. 963,242; July 5; Sp. p. 539; Gaz. vol. 156; p. 77.
Osterhaus, Henry, Mitchell, S. D. Hoisting apparatus. No. 949,595; Feb. 15; Sp. p. 3790; Gaz. vol. 151; p. 659.
Osterhom, William, assignor to Acorn Brass Manufacturing Company, Chicago, Ill. Priming-cup. No. 979,194; Dec. 20; Sp. p. 3865; Gaz. vol. 161; p. 669.
Ostermayer, Frederick, Elizabeth, N. J. Carbureting apparatus. No. 970,102; Sept. 13; Sp. p. 2063; Gaz. vol. 158; p. 350.
Ostertag, John H., Columbia, Pa. Washing-machine. No. 950,575; Mar. 1; Sp. p. 237; Gaz. vol. 152; p. 39.
Ostervold, John, Westport, Oreg., assignor one-half to J. R. Burke, Cathlamet, Wash. Dredging apparatus. No. 947,624; Jan. 25; Sp. p. 5849; Gaz. vol. 150; p. 971.
Ostlin, Olaf, Maywood, Ill., assignor to American Can Company, New York, N. Y. Double-seaming machine. No. 968,680; Aug. 30; Sp. p. 6092; Gaz. vol. 157; p. 1065.
Ostman, Joseph O., assignor of one-fourth to A. Immo and one-fourth to A. Abramson, Hancock, Mich. Sewing-machine attachment. No. 975,989; Nov. 15; Sp. p. 4175; Gaz. vol. 160; p. 707.
Ostrander, Lewis N., *et al.* (See Collins, Wilbur L., assignor.)
Ostrander, William H., assignor of one-third to B. Weisberger, Poughkeepsie, N. Y. Railway-track. No. 978,054; Dec. 6; Sp. p. 1361; Gaz. vol. 161; p. 218.
Öström, Kerstin, Siljansnäs, Sweden. Dish-washer. No. 954,879; Apr. 12; Sp. p. 2605; Gaz. vol. 153; p. 442.
Oswald, Thomas A. (See Reeve and Oswald.)
Oswald, Tony, Canova, S. D. Grain-car door. No. 950,007; Feb. 22; Sp. p. 4741; Gaz. vol. 151; p. 837.
Oswell, George G., Atkinson, Minn. Stovepipe-fastener. No. 961,985; June 21; Sp. p. 3635; Gaz. vol. 155; p. 639.
Otis Elevator Company. (See Baldwin, William D., assignor.)
Otis Elevator Company. (See Boening, Ernest, assignor.)
Otis Elevator Company. (See Boyce, John E., assignor.)
Otis Elevator Company. (See Brown, Thomas E., assignor.)
Otis Elevator Company. (See Chytraus, Emil F., assignor.)
Otis Elevator Company. (See Coyle, Andrew M., assignor.)
Otis Elevator Company. (See Dickinson, William N., Jr., assignor.)
Otis Elevator Company. (See Furlow, Floyd C., assignor.)
Otis Elevator Company. (See Gale, Ernest L., Sr., assignor.)
Otis Elevator Company. (See Hultgren, William H., assignor.)
Otis Elevator Company. (See Hymans, Frederick, assignor.)
Otis Elevator Company. (See Ihlder, John D., assignor.)
Otis Elevator Company. (See Larson, David, assignor.)
Otis Elevator Company. (See Lindquist, David L., assignor.)
Otis Elevator Company. (See Lindquist and Larson, assignors.)
Otis Elevator Company. (See Schuller, Alfred L., assignor.)
Otis Elevator Company. (See Scott, Campbell, assignor.)
Otis Elevator Company. (See Scott and Gale, assignors.)

Alphabetical list of patentees—Continued.

Otis Elevator Company. (See Sundh, August, assignor.)
Otis Elevator Company. (See Town, Frederic E., assignor.)
Otis Elevator Company. (See Venn, Isaac H., assignor.)
Otis Elevator Company. (See Westlin, Bror E., assignor.)
Otis, Flora. (See Otis, James, assignor.)
Otis, Flora M., Ann Arbor, Mich. Elastic bed-pan. No. 959,379; May 24; Sp. p. 6396; Gaz. vol. 154; p. 1069.
Otis, James, assignor of one-half to F. Otis, Ann Arbor, Mich. Street-sweeper. No. 959,380; May 24; Sp. p. 6397; Gaz. vol. 154; p. 1069.
Otis, Milton G., Aniwa, Wis. Mowing-machine. No. 953,757; Apr. 5; Sp. p. 149; Gaz. vol. 153; p. 29.
Otis, Spencer. (See Seaberg, Frederick, assignor.)
Otis, Spencer, Chicago, Ill., assignor to National Patent Holding Company, Rapid City, S. D. Reversible clutch. No. 946,262; Jan. 11; Sp. p. 2758; Gaz. vol. 150; p. 459.
Otis, Spencer, Chicago, Ill., assignor to National Dump Car Company. Dump-car door. No. 949,494; Feb. 15; Sp. p. 3594; Gaz. vol. 151; p. 626.
Otis, Spencer, assignor to National Dump Car Company, Chicago, Ill. Railway-car. No. 953,347; Mar. 29; Sp. p. 5958; Gaz. vol. 152; p. 1074.
Otis, Spencer, assignor to National Dump Car Company, Chicago, Ill. Spliced-side gondola car. No. 958,426; May 17; Sp. p. 4414; Gaz. vol. 154; p. 722.
Otis, Spencer, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 968,595; Aug. 30; Sp. p. 5869; Gaz. vol. 157; p. 1035.
Otis, W. E., Jr., *et al.* (See Huntley, Stephen A., assignor.)
Ott, Ada. (See Ott, William J. and A.)
Ott, Frederick, South Bethlehem, Pa. Loom. No. 971,632; Oct. 4; Sp. p. 259; Gaz. vol. 159; p. 46.
Ott, Harry G. W., Philadelphia, Pa. Folding extension-table. No. 950,340; Feb. 22; Sp. p. 5427; Gaz. vol. 151; p. 951.
Ott, John F. (See Edison and Ott.)
Ott, René, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing and product thereof. No. 961,368; June 14; Sp. p. 2322; Gaz. vol. 155; p. 410.
Ott, William J. and A., Hugo, Oreg. Clothes-tongs. No. 958,938; May 24; Sp. p. 5499; Gaz. vol. 154; p. 923.
Ottaway, William, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Carbureter. No. 959,066; May 24; Sp. p. 5759; Gaz. vol. 154; p. 965.
Otten, Arthur H., assignor of one-half to O. R. Schulz, Milwaukee, Wis. Egg-beater. No. 964,306; July 12; Sp. p. 2778; Gaz. vol. 156; p. 458.
Otten, Bennata, Lübeck, Germany. Controlling apparatus for libraries and the like. No. 969,395; Sept. 6; Sp. p. 527; Gaz. vol. 158; p. 83.
Otten, John H., Buffalo, N. Y. Shock-absorber. No. 945,190; Jan. 4; Sp. p. 375; Gaz. vol. 150; p. 63.
Otto, Albert, Fredonia, Kans. Burner. No. 967,657; Aug. 16; Sp. p. 3869; Gaz. vol. 157; p. 664.
Otto, Anthony E., *et al.* (See Humphrey, Edwin H., assignor.)
Otto, Frank, Columbus, Ohio. Substitute for coffee. No. 967,425; Aug. 16; Sp. p. 3410; Gaz. vol. 157; p. 587.
Otto, Friedrich A., assignor to Company Alexanderwerk A. vonder Nahmer Aktien-Gesellschaft, Remscheid, Germany. Pneumatic hammer. No. 973,378; Oct. 18; Sp. p. 4120; Gaz. vol. 159; p. 702.
Otto, Gilbert M., Oaklawn, Ill. Hand-lantern. No. 979,994; Dec. 27; Sp. p. 5557; Gaz. vol. 161; p. 960.
Otto, Herbert W., Meriden, Conn. Blind-fastener. No. 978,479; Dec. 13; Sp. p. 2297; Gaz. vol. 161; p. 396.
Ottowitz, John, Joliet, Ill. Bottle-stopper. No. 978,633; Dec. 13; Sp. p. 2652; Gaz. vol. 161; p. 451.
Oucsek, Josef. (See Rochotsch, Reinhold, assignor.)
Ouimet, Séraphin, Montreal, Quebec, Canada. Filtration system. No. 975,450; Nov. 15; Sp. p. 3060; Gaz. vol. 160; p. 523.
Oulton, George, C. Ablett, and W. E. Lightfoot, Liverpool, England. Speed-regulating device for sound recording and reproducing machines. No. 964,684; July 19; Sp. p. 3705; Gaz. vol. 156; p. 617.
Oulton, George, C. Ablett, and W. E. Lightfoot, Liverpool, England. Sound recording and reproducing machine. No. 971,068; Sept. 27; Sp. p. 4109; Gaz. vol. 158; p. 727.
Oungst, Walter M. (See Mann and Oungst.)
Oungst, Webb M. (See Mann and Oungst.)
Ourdan, Vincent L., Washington, D. C. Engraving-machine. No. 977,829; Dec. 6; Sp. p. 889; Gaz. vol. 161; p. 140.
Outhouse, Harry, Danbury, Conn., assignor of one-half to F. Green, New Rochelle, N. Y. Car-replacer. No. 946,909; Jan. 18; Sp. p. 4280; Gaz. vol. 150; p. 703.
Oven, J. H. H. von, administrator. (See Boesch and Oven.)
Oven, John H. G. von. (See Boesch and Oven.)
Ovenshire, Elijah A., Los Angeles, Cal. Information and directory cabinet. No. 958,673; May 17; Sp. p. 4894; Gaz. vol. 154; p. 804.
Ovenshire, Elijah A., Los Angeles, Cal. Printing-machine. No. 977,830; Dec. 6; Sp. p. 892; Gaz. vol. 161; p. 140.
Overbury, Frederick C., New York, N. Y., assignor to Flintkote Manufacturing Company, Rutherford, N. J. Protective covering for roofs, &c. No. 978,333; Dec. 13; Sp. p. 1991; Gaz. vol. 161; p. 347.
Overbury, Frederick C., New York, N. Y., assignor to Flintkote Manufacturing Company, Rutherford, N. J. Roofing-fastener. No. 978,334; Dec. 13; Sp. p. 1992; Gaz. vol. 161; p. 347.
Overcash, Walter A., Statesville, N. C. Log-turner dog. No. 965,731; July 26; Sp. p. 5906; Gaz. vol. 156; p. 1004.
Overholt, Isaac F., *et al.* (See Lindsay, Franklin G., assignor.)
Overlander, Jacob A., White Plains, N. Y. Wrench. No. 978,748; Dec. 13; Sp. p. 2883; Gaz. vol. 161; p. 488.
Overly, Arless C. (See Snyder, George A., assignor.)
Overly, Charles F., Pittsburg, Pa., assignor, by mesne assignments, to Enterprise Machine Manufacturing Company. Tool for cleaning tubes. No. 959,585; May 31; Sp. p. 6843; Gaz. vol. 154; p. 1164.
Overman, Max C., New York, N. Y. Resilient wheel. No. 950,299; Feb. 22; Sp. p. 5339; Gaz. vol. 151; p. 937.
Overmyer, Charles G., assignor of one-half to G. F. Collins, Coffeyville, Kans. Annealing-ring. No. 958,674; May 17; Sp. p. 4898; Gaz. vol. 154; p. 804.
Overmyer, Charles G., assignor of one-half to G. F. Collins, Coffeyville, Kans. Glass jar. No. 978,634; Dec. 13; Sp. p. 2653; Gaz. vol. 161; p. 451.
Overshiner, Lincoln P., San Diego, Cal. Harness back-pad and collar-pad. No. 959,381; May 24; Sp. p. 6399; Gaz. vol. 154; p. 1070.
Overton, Jesse C., Omaha, assignor of one-half to J. Schwabland, Fordyce, Nebr. Corn-husker. No. 979,690; Dec. 27; Sp. p. 4901; Gaz. vol. 161; p. 859.
Overton, Willis E., and A. C. Ketcham, Solomons, Md. Expanding or adjustable press for fertilizing material, &c. No. 975,990; Nov. 15; Sp. p. 4177; Gaz. vol. 160; p. 707.
Overturf, Virgil V., Newark, Ohio. Vent for liquid-containing tanks, &c. No. 968,394; Aug. 23; Sp. p. 5443; Gaz. vol. 157; p. 939.
Oviedo, Francisco E., Mexico, Mexico. Fire-alarm. No. 967,658; Aug. 16; Sp. p. 3871; Gaz. vol. 157; p. 664.
Owen, Charles L., Avalon, assignor of fifty-one one-hundredths to W. H. Shinn, Carnegie, and twenty-four and one-half one-hundredths to C. H. Cochran, Avalon, Pa. Journal-box. No. 961,793; June 21; Sp. p. 3205; Gaz. vol. 155; p. 575.
Owen, David T., Cleveland, assignor to The D. T. Owen Company, East Cleveland, Ohio. Combined couch and bed. No. 962,580; June 28; Sp. p. 4960; Gaz. vol. 155; p. 869.
Owen, George A., and G. A. Bates, Hartford, Conn. Fire-hydrant. No. 950,300; Feb. 22; Sp. p. 5342; Gaz. vol. 151; p. 938.
Owen, Henry A. (See Robinson and Owen.)
Owen, James W., Philadelphia, Pa., assignor to Victor Talking Machine Company. Sound-record for talking-machines. No. 964,685; July 19; Sp. p. 3708; Gaz. vol. 156; p. 617.
Owen, James W., Philadelphia, Pa., assignor to Victor Talking Machine Company. Making sound-records and the matrices for making sound-records. No. 964,686; July 19; Sp. p. 3710; Gaz. vol. 156; p. 617.
Owen, John J. (See Hackett and Owen.)
Owen, Joseph. Newark, N. J. Hoisting device. No. 979,691; Dec. 27; Sp. p. 4902; Gaz. vol. 161; p. 859.
Owen, Matthew H., Chicago, Ill. Valve. No. 970,387; Sept. 13; Sp. p. 2641; Gaz. vol. 158; p. 445.
Owen, T. R., *et al.* (See Wagniere, August, assignor.)
Owen Thomas Motor Car Company. (See Thomas, Willie O., assignor.)
Owen, Walter W., Youngstown, Ohio. Engine-cranker mechanism. No. 970,261; Sept. 13; Sp. p. 2405; Gaz. vol. 158; p. 405.
Owen, William A., Johnson City, Tenn. Power-transmitting pulley. No. 958,274; May 17; Sp. p. 3965; Gaz. vol. 154; p. 668.
Owen, William B., Price, Utah. Tire-fastening device. No. 974,178; Nov. 1; Sp. p. 150; Gaz. vol. 160; p. 28.
Owens, Charles, Chattanooga, Tenn. Embossing-machine. No. 947,397; Jan. 25; Sp. p. 5319; Gaz. vol. 150; p. 894.
Owens, Charles, Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Embossing-machine. No. 947,254; Jan. 25; Sp. p. 4957; Gaz. vol. 150; p. 844.
Owens, Charles, Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Bundling-machine. No. 948,244; Feb. 1; Sp. p. 946; Gaz. vol. 151; p. 156.
Owens, Charles, Chattanooga, Tenn., assignor to Montague Mailing Machinery Co., New York, N. Y. Embossing-machine. No. 976,905; Nov. 29; Sp. p. 6211; Gaz. vol. 160; p. 1069.
Owens, Charles, and A. Lyle, Chattanooga, Tenn., assignors to Montague Mailing Machinery Co. Plate-feeding mechanism for addressing-machines. No. 947,398; Jan. 25; Sp. p. 5326; Gaz. vol. 150; p. 894.
Owens, Delona D. (See Steele and Owens.)
Owens, George L., assignor to G. M. Finckel, Columbus, Ohio. Lathe-chuck. No. 978,055; Dec. 6; Sp. p. 1362; Gaz. vol. 161; p. 218.
Owens, Ira L., Effingham, Kans. Hydrocarbon-burner. No. 963,010; June 28; Sp. p. 5801; Gaz. vol. 155; p. 1016.

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Owens, Ivan G., McKeesport, Pa. Horseshoe. No. 948,245; Feb. 1; Sp. p. 949; Gaz. vol. 151; p. 156.
Owens, James T., Washington, D. C. Smoke-bell support. No. 974,702; Nov. 1; Sp. p. 1417; Gaz. vol. 160; p. 219.
Owens, John M., *et al.* (See Owens, John M., assignor.)
Owens, John M., assignor to J. M. Owens, Oolitic, and J. A. Rowe, Bedford, Ind. Tension device for wire saws. No. 946,807; Jan. 18; Sp. p. 4027; Gaz. vol. 150; p. 668.
Owens, Odie O., Guthrie, Okla. Refrigerator. No. 952,627; Mar. 22; Sp. p. 4416; Gaz. vol. 152; p. 805.
Owens, Richard L., assignor to J. L. Owens Manufacturing Company, Minneapolis, Minn. Grain-separator. No. 964,307; July 12; Sp. p. 2779; Gaz. vol. 156; p. 458.
Owens, Robert B., Montreal, Quebec, Canada, assignor to General Electric Company. Governing mechanism. No. 953,285; Mar. 29; Sp. p. 5818; Gaz. vol. 152; p. 1052.
Owens, Robert C., Pittston, Pa. Chimney-top protector. No. 979,995; Dec. 27; Sp. p. 5560; Gaz. vol. 161; p. 960.
Owens, W. A. (See Coyne, Anthony, assignor.)
Owens, Walter W., Salt Lake City, Utah. Plastic-block mold. No. 978,056; Dec. 6; Sp. p. 1364; Gaz. vol. 161; p. 219.
Owens, William H., *et al.* (See Sykes, William W., assignor.)
Owin, Elijah J., assignor of one-fourth to T. B. Stubbs and one-fourth to J. G. Owin, Galveston, Tex. Crude-oil burner. No. 970,349; Sept. 13; Sp. p. 2566; Gaz. vol. 158; p. 433.
Owin, John G., *et al.* (See Owin, Elijah J., assignor.)
Owosso Manufacturing Company. (See Beehler, William, assignor.)
Oxenham, William H. (See Dutton, Burton M., assignor.)
Oxley, Robert A. (See Kyle, Samuel H., assignor.)
Ozias, Albert N., Minneapolis, Minn. Temperature-indicating instrument. No. 973,963; Oct. 25; Sp. p. 5335; Gaz. vol. 159; p. 927.
Ozonair Limited. (See Rogerson, Frank, assignor.)
P. C. Murphy Trunk Company. (See McCarthy, Clarence A., assignor.)
P. & F. Corbin. (See Arens, August, assignor.)
P. & F. Corbin. (See Arens and Teich, assignors.)
P. & F. Corbin. (See Henry, William K., assignor.)
P. & F. Corbin. (See Teich, Ernest L., assignor.)
P. H. & F. M. Roots Company, The. (See Hicks, George C., Jr., assignor.)
P. H. & F. M. Roots Company, The. (See Hicks and Enyart, assignors.)
P. P. Mast and Company. (See Warner, Thomas S., assignor.)
P. R. Manufacturing Company. (See Eden, Harold W., assignor.)
Paalen, Gustav R., Berlin, Germany, assignor to American Thermos Bottle Company, Brooklyn, N. Y. Double-walled vessel. No. 950,557; Mar. 1; Sp. p. 205; Gaz. vol. 152; p. 33.
Paar, Henry, assignor, by mesne assignments, of one-fourth to M. Beard and J. W. Willis, Canton, Ohio, and one-fourth to C. McGranahan, Chicago, Ill. Horseshoe. No. 973,552; Oct. 25; Sp. p. 4492; Gaz. vol. 159; p. 784.
Paasche, Jens A., *et al.* (See Gibson, Humphrey M., assignor.)
Pace, Augustus G., New York, N. Y. Gas-engine. No. 963,243; July 5; Sp. p. 542; Gaz. vol. 156; p. 77.
Pace, Augustus G., New York, N. Y. Gas and oil engine. No. 963,318; July 5; Sp. p. 710; Gaz. vol. 156; p. 102.
Pace, Jefferson D., Winnifield, La. Oil-burner. No. 952,348; Mar. 15; Sp. p. 3803; Gaz. vol. 152; p. 680.
Pace, Percy C., Loxwood, Billinghurst, England. Apparatus for generating combustible vapor. No. 967,044; Aug. 9; Sp. p. 2621; Gaz. vol. 157; p. 429.
Pachinger, Frank, assignor of forty-five one-hundredths to F. Lukan, Cleveland, Ohio. Filing device for index-papers. No. 973,964; Oct. 25; Sp. p. 5338; Gaz. vol. 159; p. 928.
Pacific Electric Heating Company. (See Richardson, Earl H., assignor.)
Pacific Engineering Company. (See Faget, Arthur, assignor.)
Pack, Samuel B. (See Moore, David P., assignor.)
Packard, Albert, assignor of one-half to F. J. Mack, Indianapolis, Ind. Vehicle-tire-locking device. No. 969,396; Sept. 6; Sp. p. 527; Gaz. vol. 158; p. 84.
Packard, Corrie J., Providence, R. I. Hair-dressing apparatus. No. 969,114; Aug. 30; Sp. p. 6965; Gaz. vol. 157; p. 1212.
Packard, Lucius M., Brockton, Mass. Non-refillable bottle. No. 959,792; May 31; Sp. p. 7270; Gaz. vol. 154; p. 1232.
Packard Motor Car Company. (See Huff, Russell, assignor.)
Packard Motor Car Company. (See Loomis, Allen, assignor.)
Packard Motor Car Company. (See Paine, Frank E., Jr., assignor.)
Packard Motor Car Company. (See Schmidt, Charles, assignor.)
Packer, Amos, De Witt, Mich. Driving mechanism for mowing-machines. No. 963,638; July 5; Sp. p. 1356; Gaz. vol. 156; p. 210.
Packer, Harry E., assignor of one-half to B. E. Delcamp, Chicago, Ill. Envelop moistener. No. 959,793; May 31; Sp. p. 7273; Gaz. vol. 154; p. 1232.
Packer, Mortimer L., assignor to The Ohio State Stove Company, Columbus, Ohio. Hinge. No. 967,230; Aug. 16; Sp. p. 3007; Gaz. vol. 157; p. 520.
Packer, Orville H., Oakland, Cal. Jewel for illuminated signs, display designs, and the like. No. 964,120; July 12; Sp. p. 2409; Gaz. vol. 156; p. 395.
Packham, Frank R., and G. P. Oates, assignors to The American Seeding Machine Company, Springfield, Ohio. Drag-bar for furrow-openers. No. 976,490; Nov. 22; Sp. p. 5333; Gaz. vol. 160; p. 904.
Packman, Percival J., Highbury, London, England. Sound-box for talking-machines. No. 960,191; May 31; Sp. p. 8149; Gaz. vol. 154; p. 1370.
Padbury, John J., Philadelphia, Pa. Impact-tool. No. 957,708; May 10; Sp. p. 2559; Gaz. vol. 154; p. 443.
Paddack, Truman G., Wyoming, assignor to The Stearns and Foster Company, Cincinnati, Ohio. Cotton-wadding. No. 968,681; Aug. 30; Sp. p. 6097; Gaz. vol. 157; p. 1066.
Paddack, Truman G., Wyoming, assignor to The Stearns and Foster Company, Cincinnati, Ohio. Strip-severing machine. No. 972,221; Oct. 11; Sp. p. 1568; Gaz. vol. 159; p. 275.
Padden Gas and Electric Company, The. (See Dupee, John C., assignor.)
Padden, Robert W., assignor to M. A. De Vasher, Kansas City, Mo. Gearing. No. 971,633; Oct. 4; Sp. p. 261; Gaz. vol. 159; p. 47.
Paddison, Alice E., Salt Lake City, Utah. Window-screen. No. 960,388; June 7; Sp. p. 308; Gaz. vol. 155; p. 52.
Paddock, Delbert M., assignor to The Sidney Tool Co., Sidney, Ohio. Planer attachment for jointers. No. 971,553; Oct. 4; Sp. p. 91; Gaz. vol. 159; p. 18.
Paddock, Robert G. (See Wrinkle and Paddock.)
Paden, Lewis E., Philadelphia, Pa., assignor to Pay-Within Car Company, Wilmington, Del. Passenger railway-car. No. 963,722; July 5; Sp. p. 1522; Gaz. vol. 156; p. 237.
Padernacht, Anna. (See Padernacht, William, assignor.)
Padernacht, William, assignor to A. Padernacht, New York, N. Y. Maternity-skirt. No. 960,689; June 7; Sp. p. 920; Gaz. vol. 155; p. 152.
Padgitt Bros. Company. (See Padgitt, Jesse D., assignor.)
Padgitt, Jesse D., assignor to Padgitt Bros. Company, Dallas, Tex. Harness-loop. No. 967,965; Aug. 23; Sp. p. 4502; Gaz. vol. 157; p. 791.
Padrick, Benjamin F., Portland, Oreg. Saw-clamp. No. 960,389; June 7; Sp. p. 310; Gaz. vol. 155; p. 52.
Paducah Sterilizer Mfg. Co., The. (See Stamper, Elbridge G., assignor.)
Paehlke, Otto F., Cleveland, Ohio. Molding apparatus. No. 966,762; Aug. 9; Sp. p. 2024; Gaz. vol. 157; p. 336.
Pafford, James B., Wray, Ga. Fire-screen. No. 972,636; Oct. 11; Sp. p. 2468; Gaz. vol. 159; p. 420.
Pagan, Oliver E., Washington, D. C. Shaving-soap receptacle. No. 962,091; June 21; Sp. p. 3863; Gaz. vol. 155; p. 676.
Page, Arthur A., Providence, R. I. Speed-changing mechanism. No. 959,878; May 31; Sp. p. 7465; Gaz. vol. 154; p. 1262.
Page, Benjamin F. (See Reynolds and Page.)
Page, Charles B., Baltimore, Md. Two-cycle engine. No. 956,993; May 3; Sp. p. 1074; Gaz. vol. 154; p. 168.
Page, Charles E., Detroit, Mich. Carbureter. No. 977,831; Dec. 6; Sp. p. 896; Gaz. vol. 161; p. 141.
Page, Charles W., Cathlamet, Wash. Wagon-brake. No. 948,246; Feb. 1; Sp. p. 950; Gaz. vol. 151; p. 156.
Page, Clarence C., assignor of one-half to R. Tucker, Portland, Oreg. Wrapping-machine. No. 952,273; Mar. 15; Sp. p. 3648; Gaz. vol. 152; p. 655.
Page, Clarence C., Woodstock, Oreg., assignor to Tubular Rivet & Stud Company, Boston, Mass. Cap-feeding mechanism. No. 953,056; Mar. 29; Sp. p. 5306; Gaz. vol. 152; p. 978.
Page, Crawford W., San Francisco, Cal. Indicating attachment for cash-registers. No. 978,635; Dec. 13; Sp. p. 2654; Gaz. vol. 161; p. 451.
Page, David, Topeka, Kans. Packer-platform. No. 969,490; Sept. 6; Sp. p. 720; Gaz. vol. 158; p. 114.
Page, David P., Grand Rapids, Mich. Wire-clamp. No. 976,906; Nov. 29; Sp. p. 6215; Gaz. vol. 160; p. 1070.
Page, Dolph A., Keene, N. H. Coasting-sled. No. 977,749; Dec. 6; Sp. p. 722; Gaz. vol. 161; p. 113.
Page, Ernest V. (See Lemon, Don M., assignor.)
Page, Ernest V. (See Lemon and Page.)
Page, Eugene, Danvers, and F. Tremblay, Beverly, Mass. Curtain and shade fixture. No. 975,568; Nov. 15; Sp. p. 3327; Gaz. vol. 160; p. 565.
Page, Harry. (See Page, John and H.)
Page, Harry, assignor of one-half to R. Homer Love, Galena, Kans. Wrench. No. 954,335; Apr. 5; Sp. p. 1366; Gaz. vol. 153; p. 226.
Page, John and H., Cleveland, Ohio. Mail-delivery chute. No. 947,843; Feb. 1; Sp. p. 139; Gaz. vol. 151; p. 23.
Page, Oren J. (See Engstrom and Page.)
Page, Rescue B. (See Hiatt and Page.)

Page, William M., Philadelphia, Pa., assignor to Duplex Metals Company, New York, N. Y. Compound metal and making the same. No. 949,837; Feb. 22; Sp. p. 4303; Gaz. vol. 151; p. 775.
Page, William M., assignor to Montpelier Cup and Metal Works, Montpelier, Ind. Gradual-reduction mill. No. 977,542; Dec. 6; Sp. p. 291; Gaz. vol. 161; p. 43.
Pagelsen, Edward N., Detroit, Mich. Starting device for explosion-engines. No. 960,690; June 7; Sp. p. 923; Gaz. vol. 155; p. 153.
Pagendarm, John F., assignor of one-half to W. H. Binns, San Francisco, Cal. Motion-transmitting device. No. 976,907; Nov. 29; Sp. p. 6216; Gaz. vol. 160; p. 1070.
Paget, Arthur E. (See Paget, George, C. E., and A. E.)
Paget, Charles E. (See Paget, George, C. E., and A. E.)
Paget, George, C. E., and A. E., Huntsville, Ontario, Canada. Grain-car door. No. 950,025; Feb. 22; Sp. p. 4799; Gaz. vol. 151; p. 844.
Pagett, Earl, Coffeyville, Kans. Liquid-discharging device. No. 974,105; Oct. 25; Sp. p. 5629; Gaz. vol. 159; p. 976.
Pagnard, Amos, M. Munson, and F. Glauser, Cleveland, Ohio. Device for supporting curtain-poles and shade-rollers. No. 963,467; July 5; Sp. p. 1011; Gaz. vol. 156; p. 152.
Pague, Harry L., Kansas City, Mo. Bucket-ear. No. 965,732; July 26; Sp. p. 5907; Gaz. vol. 156; p. 1004.
Pahler, Martin A., Hartford, Conn. Car-brake. No. 976,595; Nov. 22; Sp. p. 5558; Gaz. vol. 160; p. 939.
Pahlow, Frank C., assignor of one-half to A. C. Pessano, Detroit, Mich. Pipe-coupling. No. 949,329; Feb. 15; Sp. p. 3243; Gaz. vol. 151; p. 571.
Paige, Frederick G. W., Oakland, Cal. Piano-panel protector. No. 962,043; June 21; Sp. p. 3754; Gaz. vol. 155; p. 658.
Paige, Van R., Hopkinton, N. H., assignor to Bentley Single-and-Stop-Motion Company, Augusta, Me. Device for preventing singles in roving and similar frames. No. 973,694; Oct. 25; Sp. p. 4797; Gaz. vol. 159; p. 834.
Paine, Frank E., Jr., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Reversing-gearing. No. 953,704; Apr. 5; Sp. p. 45; Gaz. vol. 153; p. 11.
Paine, George R. (See Hause, George W., assignor.)
Paine, George S., and A. D. Priest, Winslow, Me. Basket-holder. No. 947,024; Jan. 18; Sp. p. 4508; Gaz. vol. 150; p. 742.
Paine, Nathan, Oshkosh, Wis. Door. No. 946,460; Jan. 11; Sp. p. 3278; Gaz. vol. 150; p. 526.
Paine, Sidney B., Newton, Mass., assignor to General Electric Company. Apparatus for starting electric motors. No. 963,169; July 5; Sp. p. 357; Gaz. vol. 156; p. 51.
Painton, Richard B., Williamsport, Pa. Steam and air pipe coupling for cars. No. 961,638; June 14; Sp. p. 2891; Gaz. vol. 155; p. 500.
Paisley, Carlton A., Winfield, Iowa. Lifting-jack. No. 961,986; June 21; Sp. p. 3636; Gaz. vol. 155; p. 639.
Paisseau-Feil, Charles J., Paris, France. Composition for use in manufacture of artificial pearls and for similar purposes. No. 978,394; Dec. 13; Sp. p. 2116; Gaz. vol. 161; p. 368.
Paist, Benjamin F., Philadelphia, Pa. Nut-tapping machine. No. 952,937; Mar. 22; Sp. p. 5064; Gaz. vol. 152; p. 910.
Paiste, Henry T., Philadelphia, Pa. Pull-socket for incandescent lamps. No. 946,395; Jan. 11; Sp. p. 3127; Gaz. vol. 150; p. 504.
Paiste, Henry T., Philadelphia, Pa. Outlet-fixture for conduits. No. 963,639; July 5; Sp. p. 1358; Gaz. vol. 156; p. 210.
Paiste, Henry T., Philadelphia, Pa. Attachment-plug. No. 965,733; July 26; Sp. p. 5908; Gaz. vol. 156; p. 1004.
Paiste, Henry T., Philadelphia, Pa. Pull-socket. No. 965,734; July 26; Sp. p. 5909; Gaz. vol. 156; p. 1005.
Pallas, Charley O., Barnesville, Minn. Potato-separator. No. 952,755; Mar. 22; Sp. p. 4690; Gaz. vol. 152; p. 848.
Palm, Charles. (See Christensen, Hans, assignor.)
Palm, Erik, Eldred, Minn. Manure-spreader. No. 947,453; Jan. 25; Sp. p. 5450; Gaz. vol. 150; p. 911.
Palmenberg, Emil T., New York, N. Y. Display-stand. No. 947,646; Jan. 25; Sp. p 5891; Gaz. vol. 150; p. 978.
Palmenberg, Emil T., New York, N. Y. Garment-form. No. 961,003; June 7; Sp. p. 1539; Gaz. vol. 155; p. 258.
Palmenberg, Emil T., New York, N. Y. Bending-machine. No. 975,787; Nov. 15; Sp. p. 3786; Gaz. vol. 160; p. 637.
Palmer, Albert D., assignor of one-half to J. Gernert, Pittsburg, Pa. Attachment for pianos and the like. No. 956,502; Apr. 26; Sp. p. 6110; Gaz. vol. 153; p. 1058.
Palmer, Cassius C., Cranford, assignor to M. E. Palmer, Cranford township, Union county, N. J. Sterilizing milk. No. 963,244; July 5; Sp. p. 564; Gaz. vol. 156; p. 78.
Palmer, Cassius C., assignor, by mesne assignments, to The Railway and Stationary Refrigerating Company, New York, N. Y. Valve. No. 967,659; Aug. 16; Sp. p. 3872; Gaz. vol. 157; p. 665.
Palmer, Charles G. (See Greene and Palmer.)
Palmer, Charles G., Newark, N. J. Change-carrier. No. 954,761; Apr. 12; Sp. p. 2319; Gaz. vol. 153; p. 401.
Palmer, Edward H., Reading, Mass. Calculating-machine. No. 969,801; Sept. 13; Sp. p. 1411; Gaz. vol. 158; p. 247.
Palmer, Elmer E., Syracuse, N. Y. Urinal. No. 947,082; Jan. 18; Sp. p. 4601; Gaz. vol. 150; p. 760.
Palmer, Francis N., Kenosha, Wis. Hollow metal float. No. 967,231; Aug. 16; Sp. p. 3009; Gaz. vol. 157; p. 520.
Palmer, Frederick J., Taunton, Mass. Cigarette-case. No. 946,263; Jan. 11; Sp. p. 2760; Gaz. vol. 150; p. 459.
Palmer, George W., Redlands, Cal. Dry gold-washer. No. 954,580; Apr. 12; Sp. p. 1883; Gaz. vol. 153; p. 336.
Palmer, George W., and F. E. Pierce, Lancaster, Mass. Flushing tank or cistern. No. 954,131; Apr. 5; Sp. p. 897; Gaz. vol. 153; p. 156.
Palmer, Granville E., Boston, Mass. System of electrical distribution. No. 961,313; June 14; Sp. p. 2202; Gaz. vol. 155; p. 391.
Palmer, Granville E., Winchester, Mass. Meter-connection block. No. 978,636; Dec. 13; Sp. p. 2656; Gaz. vol. 161; p. 451.
Palmer, Harry B., New York, N. Y., assignor of one-half to Jeffery-Dewitt Company, Newark, N. J. Educational toy. No. 948,633; Feb. 8; Sp. p. 1810; Gaz. vol. 151; p. 311.
Palmer, Harry E., Dayton, Ohio. Railway-ticket punch. No. 962,913; June 28; Sp. p. 5616; Gaz. vol. 155; p. 984.
Palmer, Herman H. (See Smith and Palmer.)
Palmer, Isaac E., Middletown, Conn. Thread-guide. No. 952,756; Mar. 22; Sp. p. 4693; Gaz. vol. 152; p. 848.
Palmer, Isaac E., Middletown, Conn. Producing yarn or thread. No. 952,757; Mar. 22; Sp. p. 4696; Gaz. vol. 152; p. 849.
Palmer, Isaac E., Middletown, Conn. Thread-guide. No. 958,760; May 24; Sp. p. 5088; Gaz. vol. 154; p. 860.
Palmer, Isaac E., Middletown, Conn. Textile-conditioning apparatus. No. 959,067; May 24; Sp. p. 5766; Gaz. vol. 154; p. 966.
Palmer, Isaac E., Middletown, Conn. Yarn or thread guide for spinning or twisting machines. No. 961,421; June 14; Sp. p. 2416; Gaz. vol. 155; p. 427.
Palmer, Isaac E., Middletown, Conn. Apparatus for treating textile material in lengths. No. 971,778; Oct. 4; Sp. p. 559; Gaz. vol. 159; p. 98.
Palmer, Isaac E., Middletown, Conn. Bearing. No. 979,881; Dec. 27; Sp. p. 5337; Gaz. vol. 161; p. 924.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Hammock. No. 952,994; Mar. 22; Sp. p. 5168; Gaz. vol. 152; p. 928.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Couch or framed hammock. No. 953,392; Mar. 29; Sp. p. 6065; Gaz. vol. 152; p. 1090.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Spring bed or seat. No. 955,350; Apr. 19; Sp. p. 3571; Gaz. vol. 153; p. 632.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Resilient bottom for couch-hammocks, &c. No. 955,351; Apr. 19; Sp. p. 3574; Gaz. vol. 153; p. 632.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Resilient bottom for couch-hammocks, &c. No. 955,352; Apr. 19; Sp. p. 3576; Gaz. vol. 153; p. 632.
Palmer, Isaac E., assignor to I. E. Palmer Co., Middletown, Conn. Framed or couch hammock. No. 955,826; Apr. 19; Sp. p. 4598; Gaz. vol. 153; p. 794.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Seating for couch-hammocks or other structures. No. 961,004; June 7; Sp. p. 1540; Gaz. vol. 155; p. 258.
Palmer, Isaac E., assignor to The I. E. Palmer Company, Middletown, Conn. Baby-hammock. No. 962,092; June 21; Sp. p. 3866; Gaz. vol. 155; p. 676.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Hammock-support. No. 962,521; June 28; Sp. p. 4822; Gaz. vol. 155; p. 848.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Hammock and stretcher or spreader therefor. No. 964,452; July 12; Sp. p. 3064; Gaz. vol. 156; p. 503.
Palmer, Isaac E., assignor to The I. E. Palmer Company, Middletown, Conn. Animal-covering. No. 965,834; July 26; Sp. p. 6131; Gaz. vol. 156; p. 1040.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Knockdown couch-hammock. No. 970,388; Sept. 13; Sp. p. 2642; Gaz. vol. 158; p. 446.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Adjustable couch-hammock. No. 972,711; Oct. 11; Sp. p. 2609; Gaz. vol. 159; p. 444.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Head and shoulder rest or support for couch and other hammocks. No. 972,712; Oct. 11; Sp. p. 2614; Gaz. vol. 159; p. 444.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Head and shoulder support for couch-hammocks, &c. No. 972,713; Oct. 11; Sp. p. 2619; Gaz. vol. 159; p. 445.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Framed hammock. No. 980,165; Dec. 27; Sp. p. 5961; Gaz. vol. 161; p. 1017.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Hanging seat-hammock. No. 980,166; Dec. 27; Sp. p. 5965; Gaz. vol. 161; p. 1018.

Alphabetical list of patentees—Continued.

Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Knockdown couch-hammock. No. 980,167; Dec. 27; Sp. p. 5968; Gaz. vol. 161; p. 1018.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Couch-hammock. No. 980,168; Dec. 27; Sp. p. 5975; Gaz. vol. 161; p. 1019.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Couch-hammock. No. 980,169; Dec. 27; Sp. p. 5976; Gaz. vol. 161; p. 1019.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Hammock-suspension means. No. 980,170; Dec. 27; Sp. p. 5980; Gaz. vol. 161; p. 1019.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Suspension means for couch-hammocks. No. 980,171; Dec. 27; Sp. p. 5982; Gaz. vol. 161; p. 1019.
Palmer, Jefferson S., Clark, S. D. Adjustable spark-plug. No. 956,778; May 3; Sp. p. 595; Gaz. vol. 154; p. 95.
Palmer, Jesse V. (See Palmer, William B., assignor.)
Palmer, John C., assignor of one-half to W. A. Cooke, Boston, Mass. Rotary cutter. No. 966,701; Aug. 9; Sp. p. 1839; Gaz. vol. 157; p. 314.
Palmer, John M., assignor to Universal Tool Company, Chicago, Ill. Lathe-dog. No. 961,155; June 14; Sp. p. 1844; Gaz. vol. 155; p. 334.
Palmer, John M., assignor to Universal Tool Company, Chicago, Ill. Tool-driving appliance. No. 965,735; July 26; Sp. p. 5911; Gaz. vol. 156; p. 1005.
Palmer, Lamar W., Riverside, N. J. Vise attachment. No. 975,991; Nov. 15; Sp. p. 4178; Gaz. vol. 160; p. 708.
Palmer, Martha E. (See Palmer, Cassius C., assignor.)
Palmer, Milton H. (See Lee, Snover, and Palmer.)
Palmer, Perley B., Orono, Me. Machine to manufacture soda and sulfite wood-pulp. No. 956,728; May 3; Sp. p. 493; Gaz. vol. 154; p. 79.
Palmer, Peter. (See Oberg, William, assignor.)
Palmer-Price Company. (See Fess, Charles J. assignor.)
Palmer, Randall A., assignor to Carter Car Company, Detroit, Mich. Gear-casing. No. 954,400; Apr. 5; Sp. p. 1485; Gaz. vol. 153; p. 247.
Palmer, Robert F. (See Pickett, Montgomery B., assignor.)
Palmer, Roderick M., assignor to G. O. G. Coale, trustee, Cambridge, Mass. Closed system of electrical distribution. No. 972,468; Oct. 11; Sp. p. 2058; Gaz. vol. 159; p. 359.
Palmer, Truman G., Chicago, Ill. Heater. No. 949,042; Feb. 15; Sp. p. 2670; Gaz. vol. 151; p. 475.
Palmer, Truman G., Chicago, Ill. Heater. No. 972,905; Oct. 18; Sp. p. 3062; Gaz. vol. 159; p. 539.
Palmer, William B., assignor of one-half to J. V. Palmer, Greenwich, N. Y. Machine for inverting tubular fabrics. No. 952,274; Mar. 15; Sp. p. 3660; Gaz. vol. 152; p. 656.
Palmer, William B., assignor of one-half to J. V. Palmer, Greenwich, N. Y. Fabric-feeding roll or head. No. 956,408; Apr. 26; Sp. p. 5896; Gaz. vol. 153; p. 1025.
Palmer, William G., assignor of one-half to W. R. Roach, Hart, Mich. Can-cap-placing machine. No. 947,685; Jan. 25; Sp. p. 5954; Gaz. vol. 150; p. 991.
Palmer, William H., Fort Scott, Kans. Forced-draft-furnace grate. No. 958,971; May 24; Sp. p. 5560; Gaz. vol. 154; p. 934.
Palms, Squire N., Hudson, Wis. Rocker-valve. No. 947,844; Feb. 1; Sp. p. 140; Gaz. vol. 151; p. 23.
Palo, Charlie A. (See Donaldson, George G., assignor.)
Palomino, Refugio. (See Young and Palomino.)
Palous, Joseph L., Berlin, Germany. Electric signaling device for motor-cars. No. 955,192; Apr. 19; Sp. p. 3225; Gaz. vol. 153; p. 578.
Pamer, John, Akron, Ohio. Drawing-pen. No. 970,541; Sept. 20; Sp. p. 2986; Gaz. vol. 158; p. 520.
Panabaker, John H. (See Stamm, Charles H., assignor.)
Panasci, Angelo, Albany, N. Y. Plate-lifter. No. 955,428; Apr. 19; Sp. p. 3742; Gaz. vol. 153; p. 657.
Pancoast, George E. (See Knapp and Pancoast.)
Pancoast, George E., Brooklyn, N. Y., assignor to American Lithographic Company. Press. No. 956,864; May 3; Sp. p. 793; Gaz. vol. 154; p. 126.
Pancoast, George E., Brooklyn, N. Y., assignor to The American Lithographic Company. Form-support for printing-presses. No. 972,906; Oct. 18; Sp. p. 3064; Gaz. vol. 159; p. 540.
Pancoast, George E., Brooklyn, N. Y., assignor to The American Lithographic Company. Printing-press. No. 979,791; Dec. 27; Sp. p. 5135; Gaz. vol. 161; p. 893.
Pando, Adolfo F., Buenos Ayres, Argentina. Harvester. No. 977,832; Dec. 6; Sp. p. 898; Gaz. vol. 161; p. 141.
Pane, Martin F., Murdocksville, Pa. Salt and pepper shaker. No. 975,451; Nov. 15; Sp. p. 3062; Gaz. vol. 160; p. 523.
Pangborn, Herbert L., Maquoketa, Iowa. Vault. No. 975,788; Nov. 15; Sp. p. 3787; Gaz. vol. 160; p. 638.
Panian, Martin, Eveleth, Minn. Respirator, (smoke-protector). No. 958,427; May 17; Sp. p. 4415; Gaz. vol. 154; p. 723.
Panikoff, William L., New Haven, Conn. Contact or vibrator screw. No. 946,983; Jan. 18; Sp. p. 4419; Gaz. vol. 150; p. 727.
Pankey, Jesse A., Minden, Miss. Plow. No. 965,121; July 19; Sp. p. 4581; Gaz. vol. 156; p. 764.
Pannenborg, Erich, Syracuse, N. Y. Suction-nozzle for dust and ash removing devices. No. 952,840; Mar. 22; Sp. p. 4879; Gaz. vol. 152; p. 878.
Pannenborg, Erich, Syracuse, N. Y. Means for facilitating the removal of accumulations in the pipes and elbows of furnaces. No. 952,938; Mar. 22; Sp. p. 5066; Gaz. vol. 152; p. 910.
Pansch, William, and O. G. Bark, Chicago, Ill. Self-locking bolt. No. 976,096; Nov. 15; Sp. p. 4395; Gaz. vol. 160; p. 745.
Panter, Joseph. (See Loud and Panter.)
Panter, William, Beckenham, assignor to The Duplex Printing and Ruling Machine Company, Limited, London, England. Printing and ruling machine. No. 951,696; Mar. 8; Sp. p. 2487; Gaz. vol. 152; p. 432.
Panton, Joseph A., Waterloo, near Liverpool, England. Brake-shoe. No. 963,640; July 5; Sp. p. 1359; Gaz. vol. 156; p. 211.
Panton, Joseph A., Waterloo, near Liverpool, England. Reinforced brake-shoe. No. 974,589; Nov. 1; Sp. p. 1175; Gaz. vol. 160; p. 179.
Panyard, Thomas A., Milwaukee, Wis. Gearing. No. 975,789; Nov. 15; Sp. p. 3789; Gaz. vol. 160; p. 638.
Panyard, Thomas A., assignor to E. J. Purtell, Milwaukee, Wis. Grinder. No. 970,542; Sept. 20; Sp. p. 2987; Gaz. vol. 158; p. 520.
Panzer, Louis, Canandaigua, N. Y. Wrench. No. 960,691; June 7; Sp. p. 925; Gaz. vol. 155; p. 153.
Pape, Hermann, Hamburg, Germany. Preparation of zinc oxid for reduction. No. 947,399; Jan. 25; Sp. p. 5329; Gaz. vol. 150; p 895.
Pape, Hermann, Hamburg-Billwärder, Germany. Obtaining zinc from zinciferous materials. No. 948,740; Feb. 8; Sp. p. 2041; Gaz. vol. 151; p. 349.
Papke, William C. F., Cincinnati, Ohio. Printer's rule in corner, straight-strip, curved, or tubular form. No. 977,217; Nov. 29; Sp. p. 6938; Gaz. vol. 160; p. 1179.
Papp, George. (See Mogyorosi and Papp.)
Papyrus Artificial Paper Manufacturing Company, The. (See Funke, Anton, assignor.)
Paquette, Exilias, Lowell, Mass., and C. F. Deeg, assignors to L. B. Fay, Elyria, Ohio. Stop device for knitting-machines and the like. No. 971,923; Oct. 4; Sp. p. 885; Gaz. vol. 159; p. 153.
Paquette, Herman A., Chicago, assignor to The Richards Manufacturing Company, Aurora, Ill. Wrench. No. 947,346; Jan. 25; Sp. p. 5214; Gaz. vol. 150; p. 878.
Paquette, Severin N., Lowell, assignor to Draper Company Hopedale, Mass. Filling feeder or magazine for automatic looms. No. 962,581; June 28; Sp. p. 4963; Gaz. vol. 155; p. 869.
Paradis, Albert, Philadelphia, Pa. Shirt-sleeve. No. 945,980; Jan. 11; Sp. p. 2167; Gaz. vol. 150; p. 361.
Paradise, Samuel R., Valparaiso, Ind. Clamping device. No. 976,828; Nov. 22; Sp. p. 6023; Gaz. vol. 160; p. 1017.
Paradise, Samuel R., Valparaiso, Ind. Clamp. No. 976,829; Nov. 22; Sp. p. 6024; Gaz. vol. 160; p. 1018.
Paradise, William F., Leavenworth, Kans. Gas-liberating header for steam-condensing coils. No. 974,590; Nov. 1; Sp. p. 1176; Gaz. vol. 160; p. 179.
Paragon Metals Company. (See Walker, George L., assignor.)
Paramount Knitting Company. (See Pope and Rogginger, assignors.)
Paramount Knitting Company. (See Rogginger, John, assignor.)
Parcel, John M., Sr., Mendota, Mo. Road-working machine. No. 950,457; Feb. 22; Sp. p. 5627; Gaz. vol. 151; p. 987.
Parcells, Paul. (See Whiting and Parcells.)
Pardee, Frank, Hazleton, Pa., assignor to Anthracite Separator Company. Plate for spiral separators. No. 977,033; Nov. 29; Sp. p. 6532; Gaz. vol. 160; p. 1115.
Pardee, Frank, Hazleton, Pa., assignor to Anthracite Separator Company. Plate for spiral separators. No. 977,034; Nov. 29; Sp. p. 6534; Gaz. vol. 160; p. 1115.
Pardee, Frank, Hazleton, Pa., assignor to Anthracite Separator Company. Plate for spiral separators. No. 977,035; Nov. 29; Sp. p. 6536; Gaz. vol. 160; p. 1116.
Pardee, Frank, Hazleton, Pa., assignor to Anthracite Separator Company. Retarder for materials in spiral separators. No. 977,036; Nov. 29; Sp. p. 6537; Gaz. vol. 160; p. 1116.
Pardee, Frank, Hazleton, Pa., assignor to Anthracite Separator Company. Spiral separator. No. 977,037; Nov. 29; Sp. p. 6540; Gaz. vol. 160; p. 1116.
Pardee, Frank, Hazleton, Pa., assignor to Anthracite Separator Company. Feed apparatus for spiral separators. No. 977,038; Nov. 29; Sp. p. 6543; Gaz. vol. 160; p. 1117.
Pardo, James, *et al.* (See McCain, Edward J., assignor.)
Pardue, Joseph C., Willowton, W. Va. Mine-timbering machine. No. 971,779; Oct. 4; Sp. p. 563; Gaz. vol. 159; p. 98.
Paris, Henry M., Kingston, Tex. Cotton-chopper. No. 973,379; Oct. 18; Sp. p. 4121; Gaz. vol. 159; p. 703.
Paris, William A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wheel-brake. No. 951,146; Mar. 8; Sp. p. 1384; Gaz. vol. 152; p. 251.

Parish & Bingham Company. (See Blackman, Charles W., assignor.)
Parish, Le Grand, and R. B. Kendig, Cleveland, Ohio. Car construction. No. 979,088; Dec. 20; Sp. p. 3605; Gaz. vol. 161; p. 629.
Parizek, Frank, assignor to Universal Wind Shield Company, Chicago, Ill. Wind-shield. No. 973,206; Oct. 18; Sp. p. 3764; Gaz. vol. 159; p. 643.
Park, Allan G., Madison, Wis. Boat-steering gear. No. 964,879; July 19; Sp. p. 4108; Gaz. vol. 156; p. 684.
Park, David M., Erin, assignor of two-thirds to H. A. Tiffany, Syracuse, N. Y. Instrument for computing fractions. No. 978,637; Dec. 13; Sp. p. 2658; Gaz. vol. 161; p. 452.
Park, F. C., *et al.* (See Berntson, Thomas, assignor.)
Park, Frank C., *et al.* (See Berntson, Thomas, assignor.) (Reissue.)
Park, Ira L., Fairfax county, Va., assignor of one-half to C. B. Morris, Washington, D. C. Towel-supply device. No. 979,029; Dec. 20; Sp. p. 3476; Gaz. vol. 161; p. 610.
Park, Joseph L., Sacramento, Cal. Stove-burner. No. 957,365; May 10; Sp. p. 1874; Gaz. vol. 154; p. 326.
Park, Ney P., assignor of one-half to C. B. Teasley, Montgomery, Ala. Framing device. No. 967,045; Aug. 9; Sp. p. 2623; Gaz. vol. 157; p. 429.
Park, Philip R., Reading, assignor to The Park & Pollard Company, Boston, Mass. Brooder. No. 965,650; July 26; Sp. p. 5745; Gaz. vol. 156; p. 977.
Park & Pollard Company, The. (See Park, Philip R., assignor.)
Park, Samuel T., and J. E. Phillips, Danville, assignors to Locomotive Recording Dynamometer Company, Chicago, Ill.; Dynamometer. No. 946,264; Jan. 11; Sp. p. 2761; Gaz. vol. 150; p. 459.
Park, Samuel T., and J. E. Phillips, Danville, assignors to Locomotive Recording Dynamometer Company, Chicago, Ill. Datum and recording sheet. No. 946,265; Jan. 11; Sp. p. 2764; Gaz. vol. 150; p. 460.
Park, William R., Taunton, Mass., assignor to The United Injector Company, New York, N. Y. Gas-regulator. No. 948,340; Feb. 8; Sp. p. 1162; Gaz. vol. 151; p. 213.
Park, William R., Taunton, Mass., assignor to The United Injector Company, New York, N. Y. Carbureter. No. 955,353; Apr. 19; Sp. p. 3578; Gaz. vol. 153; p. 632.
Parkas, Nick. (See Psareas and Parkas.)
Parke, Davis & Company. (See Takamine, Jokichi, assignor.)
Parke, Frederic H., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Device for pumping liquids. No. 963,641; July 5; Sp. p. 1360; Gaz. vol. 156; p. 211.
Parker, Alfred. (See Knee, Lucious C., assignor.)
Parker, Atwell A., Waterford, N. Y. Pump. No. 957,794; May 10; Sp. p. 2749; Gaz. vol. 154; p. 471.
Parker, Benjamin F., Murphysboro, Ill. Boiler-cleaner. No. 950,188; Feb. 22; Sp. p. 5118; Gaz. vol. 151; p. 898.
Parker Brothers. (See Parker, George S., assignor.)
Parker Brothers Glass Manufacturing Company. (See Sheppard, William M., assignor.)
Parker, Burton H., Port Colburn, Ontario, Canada. Current-controller. No. 957,516; May 10; Sp. p. 2177; Gaz. vol. 154; p. 376.
Parker, C. L. (See Robbins, Ira, assignor.)
Parker, Charles A., Fort Fred Steele, assignor of one-half to R. V. Evans, Rawlins, Wyo. Track-rail bond for railways. No. 969,115; Aug. 30; Sp. p. 6966; Gaz. vol. 157; p. 1212.
Parker-Clark Electric Company. (See Baker, King, and Parker, assignors.)
Parker-Clark Electric Company. (See Clark, Walter G., assignor.)
Parker-Clark Electric Company. (See Parker, Herschel C., assignor.)
Parker-Clark Electric Company. (See Parker and Clark, assignors.)
Parker, Clark W., Springfield, Mass., assignor to Parker Transmission & Appliance Company. Transmission-gearing. No. 968,189; Aug. 23; Sp. p. 5029; Gaz. vol. 157; p. 867.
Parker, Claude M. (See Barr, Emmett, assignor.)
Parker, Edward A., Bellingham, Wash. Saw-set. No. 946,704; Jan. 18; Sp. p. 3774; Gaz. vol. 150; p. 631.
Parker, Frank S., assignor to Edward Miller & Company, Meriden, Conn. Gas-regulator for Bunsen burners. No. 964,804; July 19; Sp. p. 3955; Gaz. vol. 156; p. 657.
Parker, Frank T., Columbia, S. C. Car-window guard. No. 963,319; July 5; Sp. p 716; Gaz. vol. 156; p. 103.
Parker, Frederick J., Cleveland, Ohio. Combination gas and coal furnace. No. 946,266; Jan. 11; Sp. p. 2766; Gaz. vol. 150; p. 460.
Parker, Frederick R., Chicago, Ill. Self-cleaning electrical protective apparatus. No. 968,395; Aug. 23; Sp. p. 5444; Gaz. vol. 157; p. 939.
Parker, Fredrick, Wilmerding, Pa. Faucet. No. 973,294; Oct. 18; Sp. p. 3932; Gaz. vol. 159; p. 673.
Parker, George A., Philadelphia, Pa. Tension device for shears. No. 953,705; Apr. 5; Sp. p. 47; Gaz. vol. 153; p. 11.
Parker, George A., assignor of one-half to H. G. Simmons, Hope Valley, R. I. Explosive-engine. No. 967,046; Aug. 9; Sp. p. 2624; Gaz. vol. 157; p. 430.
Parker, George D., Riverside, Cal. Fruit-weigher. No. 947,255; Jan. 25; Sp. p. 4964; Gaz. vol. 150; p. 844.
Parker, George D., Riverside, Cal. Fruit sizer and grader. No. 958,164; May 17; Sp. p. 3740; Gaz. vol. 154; p. 632.
Parker, George D., Riverside, Cal. Box-making machine. No. 959,158; May 24; Sp. p. 5948; Gaz. vol. 154; p. 996.
Parker, George E., Brookline, assignor to Heaton-Peninsular Button Fastener Company, Boston, Mass. Feed-tube for buttons and button-fasteners and coupling mechanism. No 977,124; Nov. 29; Sp. p. 6739; Gaz. vol. 160; p. 1147.
Parker, George E. D., Syracuse, N. Y. Feeding-machine. No. 963,170; July 5; Sp. p. 358; Gaz. vol. 156; p. 51.
Parker, George H., Atlantic City, N. J. School-desk. No. 951,380; Mar. 8; Sp. p. 1873; Gaz. vol. 152; p. 327.
Parker, George H., Newark, N. J., assignor to J. W. Baker, Stamford, Conn. Bulletin-board. No. 962,164; June 21; Sp. p. 4046; Gaz. vol. 155; p. 703.
Parker, George S., assignor to Parker Brothers, Incorporated, Salem, Mass. Game-cards. No. 952,939; Mar. 22; Sp. p. 5068; Gaz. vol. 152; p. 910.
Parker, George W., New York, N. Y., assignor to The Parker-Russell Mining & Manufacturing Company, St. Louis, Mo. Apparatus for regulating combustion. No. 949,596; Feb. 15; Sp. p. 3792; Gaz. vol. 151; p. 660.
Parker, Harry S., and E. O. Lieb, Trenton, N. J. Baggage-truck brake. No. 959,251; May 24; Sp. p. 6142; Gaz. vol. 154; p. 1026.
Parker, Henry R., assignor of one-half to R. F. Parks, Trappe, Pa. Incubator. No. 971,212; Sept. 27; Sp. p. 4421; Gaz. vol. 158; p. 775.
Parker, Herschel C. (See Baker, King, and Parker.)
Parker, Herschel C., assignor to Parker-Clark Electric Company, New York, N. Y. Making incandescent-electric-lamp filaments. No. 974,812; Nov. 8; Sp. p. 1658; Gaz. vol. 160; p. 278.
Parker, Herschel C., and W. G. Clark, assignors to Parker-Clark Electric Company, New York, N. Y. Filament or resister for heating units or lamps. No. 976,207; Nov. 22; Sp. p. 4665; Gaz. vol. 160; p. 804.
Parker, Howard, Nashua, N. H. Packing for cylinder-molds. No. 958,275; May 17; Sp. p. 3966; Gaz. vol. 154; p. 668.
Parker, Howard, Nashua, N. H. Press-roll. No. 969,652; Sept. 6; Sp. p. 1066; Gaz. vol. 158; p. 171.
Parker, Howard, assignor to Improved Paper Machinery Company, Nashua, N. H. Making press-rolls. No. 973,380; Oct. 18; Sp. p. 4122; Gaz. vol. 159; p. 703.
Parker, Howard, assignor to Improved Paper Machinery Company, Nashua, N. H. Multiple-color paper and pulp machine. No. 973,965; Oct. 25; Sp. p. 5339; Gaz. vol. 159; p. 928.
Parker, Howard, assignor to Improved Paper Machinery Company, Nashua, N. H. Machine for collecting solids from liquids. No. 974,989; Nov. 8; Sp. p. 2081; Gaz. vol. 160; p. 339.
Parker, James W., and F. L. Hurtt, Peoria, Ill.; said Hurtt assignor to said Parker. Apparatus for raising temperature of water. No. 962,405; June 21; Sp. p. 4534; Gaz. vol. 155; p. 782.
Parker, John. (See Petigor and Parker.)
Parker, John, assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Cutter-holding device for milling-machines. No. 963,935; July 12; Sp. p. 2013; Gaz. vol. 156; p. 331.
Parker, John A., Gardiner, Me. Graphoscope. No. 979,552; Dec. 27; Sp. p. 4607; Gaz. vol. 161; p. 811.
Parker, John C., Philadelphia, Pa. Means for regulating pressure in steam-boilers. No. 974,911; Nov. 8; Sp. p. 1882; Gaz. vol. 160; p. 311.
Parker, John I., *et al.* (See Nobis, Curtis A., assignor.)
Parker, John L., *et al.* (See Bulloch, Alva B., assignor.)
Parker, John W., Columbus, Ohio. Puzzle. No. 964,688; July 19; Sp. p. 3716; Gaz. vol. 156; p. 618.
Parker, Joseph H., Los Angeles, Cal. Treatment of oils. No. 958,820; May 24; Sp. p. 5228; Gaz. vol. 154; p. 882.
Parker, Joseph N., Kingfield, Me. Agricultural implement. No. 965,736; July 26; Sp. p. 5915; Gaz. vol. 156; p. 1006.
Parker, Joseph N., assignor of one-half to L. L. Mitchell, Kingfield, Me. Rake. No. 951,024; Mar. 1; Sp. p. 1150; Gaz. vol. 152; p. 187.
Parker, Robert, Long Branch, N. J. Device for drying hair. No. 949,713; Feb. 15; Sp. p. 4012; Gaz. vol. 151; p. 698.
Parker-Russell Mining & Manufacturing Company, The. (See Parker, George W., assignor.)
Parker, Samuel I., Teddington, England. Valve and valve-actuating arrangement of internal-combustion engines. No. 964,308; July 12; Sp. p. 2781; Gaz. vol. 156; p. 458.
Parker, Thomas, Wednesfield, England. Manufacture of fuel. No. 947,400; Jan. 25; Sp. p. 5330; Gaz. vol. 150; p. 895.
Parker, Thomas, London, England. Production of fuel. No. 958,761; May 24; Sp. p. 5089; Gaz. vol. 154; p. 860.
Parker, Thomas R. G., Broadheath, assignor to Linotype and Machinery Limited, London, England. Printing-machine. No. 951,217; Mar. 8; Sp. p. 1517; Gaz. vol. 152; p. 274.
Parker Transmission & Appliance Company. (See Parker, Clark W., assignor.)

Alphabetical list of patentees—Continued.

Parker, Walter, Neola, Iowa. Fence-post. No. 973,295; Oct. 18; Sp. p. 3933; Gaz. vol. 159; p. 673.
Parker, Walter F., *et al.* (See Newcomb, David L., assignor.)
Parker, William H. (See Tatum and Parker.)
Parker, William H., Passaic, N. J. Wire-bending machine. No. 957,245; May 10; Sp. p. 1612; Gaz. vol. 154; p. 285.
Parker, William H., North Birmingham, Ala. Combined nest and brooder. No. 962,459; June 28; Sp. p. 4685; Gaz. vol. 155; p. 827.
Parker, William H., Toronto, Ontario, Canada. Acetylene gas generator. No. 975,154; Nov. 8; Sp. p. 2433; Gaz. vol. 160; p. 395.
Parker, William S., Ottumwa, Iowa. Railway-ticket. No. 959,879; May 31; Sp. p. 7468; Gaz. vol. 154; p. 1262.
Parkes Machine Company, The. (See Parkes, William N., assignor.)
Parkes, William N., Brooklyn, assignor to The Parkes Machine Company, New York, N. Y. Embroidery or ornamental stitch sewing-machine. No. 946,150; Jan. 11; Sp. p. 2499; Gaz. vol. 150; p. 417.
Parkes, William N., Brooklyn, assignor to The Parkes Machine Company, New York, N. Y. Pitman connection. No. 957,474; May 10; Sp. p. 2090; Gaz. vol. 154; p. 362.
Parkey, Isaac S., Pennington Gap, Va. Bulletin-board. No. 968,596; Aug. 30; Sp. p. 5871; Gaz. vol. 157; p. 1035.
Parkhill, James. (See Parkhill, John and J.)
Parkhill, John, Rochester, Minn. Pitch-gage attachment for squares. No. 979,996; Dec. 27; Sp. p. 5560; Gaz. vol. 161; p. 961.
Parkhill, John and J., Niagara Falls, N. Y. Automatic door and mechanism for operating the same. No. 955,540; Apr. 19; Sp. p. 3969; Gaz. vol. 153; p. 697.
Parkhurst Company, The. (See Parkhurst, Layton M., assignor.)
Parkhurst, Edward B., Moline, Ill. Water-jacket for engine-cylinders. No. 952,576; Mar. 22; Sp. p. 4294; Gaz. vol. 152; p. 786.
Parkhurst, Layton M., assignor, by mesne assignments, to The Parkhurst Company, Indianapolis, Ind. Machine for handling articles. No. 963,245; July 5; Sp. p. 565; Gaz. vol. 156; p. 78.
Parkhurst, Lemuel W., Elma, Wash. Saw-set. No. 971,141; Sept. 27; Sp. p. 4263; Gaz. vol. 158; p. 751.
Parkhurst, Leon F., Pittsfield, Mass., assignor to General Electric Company. Electric toaster. No. 951,287; Mar. 8; Sp. p. 1669; Gaz. vol. 152; p. 296.
Parkhurst, Leon F., Pittsfield, Mass., assignor to General Electric Company. Resistance unit. No. 953,393; Mar. 29; Sp. p. 6068; Gaz. vol. 152; p. 1090.
Parkhurst, Leon F., and H. G. Weeks, assignors to Diamond Electric Company, Binghamton, N. Y. Electric percolator. No. 968,682; Aug. 30; Sp. p. 6098; Gaz. vol. 157; p. 1066.
Parkhurst, Leon F., and H. G. Weeks, assignors to Diamond Electric Company, Binghamton, N. Y. Electric oven. No. 968,683; Aug. 30; Sp. p. 6099; Gaz. vol. 157; p. 1066.
Parkhurst, Leon F., and H. G. Weeks, assignors to Diamond Electric Company, Binghamton, N. Y. Sad-iron. No. 969,976; Sept. 13; Sp. p. 1804; Gaz. vol. 158; p. 306.
Parkhurst, Leon F., and H. G. Weeks, assignors to Diamond Electric Company, Binghamton, N. Y. Electric heater. No. 975,712; Nov. 15; Sp. p. 3634; Gaz. vol. 160; p. 611.
Parkin, Joseph W., Philadelphia, Pa. Carbureter. No. 968,597; Aug. 30; Sp. p. 5872; Gaz. vol. 157; p. 1035.
Parkins, Daniel, Luton, England. Folding or collapsible box, case, and the like. No. 945,797; Jan. 11; Sp. p. 1753; Gaz. vol. 150; p. 294.
Parkinson, Benoni, East Greenwich, R. I. Feeding device for tentering-machines. No. 961,526; June 14; Sp. p. 2657; Gaz. vol. 155; p. 462.
Parkinson, Bernard R., Leighton Buzzard, assignor of one-half to H. Woodall, Westminster, England. Securing the ends of service-pipes to gas or other mains. No. 968,258; Aug. 23; Sp. p. 5169; Gaz. vol. 157; p. 891.
Parkinson, William H. (See Parkison, Wallace M., assignor.)
Parkison, Thomas B., Muncie, Ind., assignor to Union Fibre Company, Winona, Minn. Manufacturing mineral wool. No. 945,583; Jan. 4; Sp. p. 1240; Gaz. vol. 150; p. 192.
Parkison, Wallace M., Rensselaer, Ind. Transmission-gearing. No. 957,795; May 10; Sp. p. 2751; Gaz. vol. 154; p. 471.
Parkison, Wallace M., Brook, assignor of one-half to W. H. Parkinson, Rensselaer, Ind. Transmission-gearing. No. 950,823; Mar. 1; Sp. p. 780; Gaz. vol. 152; p. 124.
Parks, Alfred M., Philadelphia, Pa. Colorimeter. No. 977,964; Dec. 6; Sp. p. 1185; Gaz. vol. 161; p. 189.
Parks, Dennis, St. Louis, Mo. Vise. No. 973,381; Oct. 18; Sp. p. 4124; Gaz. vol. 159; p. 703.
Parks, Edward F., and S. W. Wardwell, Providence, R. I. Carrier for braiding-machines. No. 962,522; June 28; Sp. p. 4824; Gaz. vol. 155; p. 848.
Parks, Frederick W., assignor to G. M. Parks Company, Fitchburg, Mass. Humidifying apparatus. No. 968,074; Aug. 23; Sp. p. 4760; Gaz. vol. 157; p. 828.
Parks, John T., and M. T. Davis, Jr., Charleston, W. Va. Mine-car wheel. No. 945,584; Jan. 4; Sp. p. 1241; Gaz. vol. 150; p. 193.
Parks, Robert F. (See Parker, Henry R., assignor.)
Parks, Theodore, and J. Coughlin, Columbus, N. D. Plow. No. 950,674; Mar. 1; Sp. p. 449; Gaz. vol. 152; p. 73.
Parlin and Orendorff Company. (See Graham, William S., assignor.)
Parlin and Orendorff Company. (See Harbolt, Curtis L., assignor.)
Parman, John H., assignor of one-half to W. B. Lawhorn, Nashville, Tenn. Boring-machine. No. 946,984; Jan. 18; Sp. p. 4420; Gaz. vol. 150; p. 727.
Parmele, Charles R., New Brighton, N. Y. Sealed receptacle. No. 958,887; May 24; Sp. p. 5399; Gaz. vol. 154; p. 906.
Parmelee, Charles L., Orange, N. J. Machine for upsetting metal plates. No. 945,798; Jan. 11; Sp. p. 1754; Gaz. vol. 150; p. 294.
Parmenter, Frank C. (See Cole, Albert L., assignor.)
Parmenter, George A., Boston, Mass. Car-fender. No. 945,727; Jan. 4; Sp. p. 1565; Gaz. vol. 150; p. 241.
Parmenter, George A., Cambridge, Mass. Life-guard for railway-cars. No. 955,678; Apr. 19; Sp. p. 4297; Gaz. vol. 153; p. 743.
Parmenter, George A., Cambridge, Mass. Life-guard for railway-cars. (Reissue.) No. 13,172; Nov. 22; Sp. p. 6041; Gaz. vol. 160; p. 1021.
Parmenter, Henry E., Newport, R. I. Metal-bending machine. No. 956,541; May 3; Sp. p. 71; Gaz. vol. 154; p. 14.
Parmeter, Addison J., Milnor, N. D. Folding crate. No. 957,796; May 10; Sp. p. 2752; Gaz. vol. 154; p. 471.
Parmeter, Addison J., assignor of one-half to P. H. Warriner, Milnor, N. D. Storm-window attachment. No. 975,992; Nov. 15; Sp. p. 4180; Gaz. vol. 160; p. 708.
Parmley, Phillip R., Dawson, N. Mex. Package-holder. No. 956,157; Apr. 26; Sp. p. 5351; Gaz. vol. 153; p. 940.
Parmly, Eleazar, Jr., Bronxville, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 965,835; July 26; Sp. p. 6133; Gaz. vol. 156; p. 1040.
Parnell, Elizabeth B., Carshalton, England. Treating ores. No. 962,383; June 21; Sp. p. 4488; Gaz. vol. 155; p. 775.
Parnham, Charles D., Atlanta, Ga. Lubricating device. No. 945,474; Jan. 4; Sp. p. 1005; Gaz. vol. 150; p. 157.
Parotti, Louis, Herrin, Ill. Molding-machine. No. 951,838; Mar. 15; Sp. p. 2802; Gaz. vol. 152; p. 511.
Parr, Clarence, Davenport, Iowa. Paper-baler. No. 968,793; Aug. 30; Sp. p. 6325; Gaz. vol. 157; p. 1102.
Parr, George R., Baltimore, Md. Opera-chair. No. 974,703; Nov. 1; Sp. p. 1420; Gaz. vol. 160; p. 220.
Parr, John, Marion, Ohio. Guard for set-screws. No. 949,087; Feb. 15; Sp. p. 2754; Gaz. vol. 151; p. 489.
Parr, Samuel W., Urbana, Ill. Calorimeter. No. 947,418; Jan. 25; Sp. p. 5377; Gaz. vol. 150; p. 901.
Parr, Winfield S. (See White, Henry, assignor.)
Parrahm, James N., Wichita, Kans. Window-bracket. No. 977,039; Nov. 29; Sp. p. 6545; Gaz. vol. 160; p. 1117.
Parrish-Alford Fence and Machine Company. (See Parrish, William N., assignor.)
Parrish, Asa L., Elkhart, Ind. Making paper bags. No. 971,780; Oct. 4; Sp. p. 566; Gaz. vol. 159; p. 99.
Parrish, Asa L., Elkhart, Ind. Paper-bag machine. No. 974,704; Nov. 1; Sp. p. 1421; Gaz. vol. 160; p. 220.
Parrish, Charles H., Statesboro, Ga. Fireback and andirons for fireplaces. No. 979,195; Dec. 20; Sp. p. 3866; Gaz. vol. 161; p. 669.
Parrish, Minnie C., Monroe, Ind. Bag-holder. No. 965,737; July 26; Sp. p. 5917; Gaz. vol. 156; p. 1006.
Parrish, William N., Richmond, assignor to Parrish-Alford Fence and Machine Company, Knightstown, Ind. Machine for making wire fabric. No. 958,888; May 24; Sp. p. 5401; Gaz. vol. 154; p. 906.
Parrott, Jennie D., Washington, D. C. Obstetrical appliance. No. 964,309; July 12; Sp. p. 2782; Gaz. vol. 156; p. 459.
Parrott, Richard D. A., New York, N. Y. Memorandum-rack. No. 970,103; Sept. 13; Sp. p. 2065; Gaz. vol. 158; p. 350.
Parry, Robert A. (See Bennett and Parry.)
Parseval, August von, Charlottenburg, Germany. Propeller. No. 954,992; Apr. 12; Sp. p. 2828; Gaz. vol. 153; p. 480.
Parseval, August von, Charlottenburg, Germany. Controlling device for airships. No. 970,262; Sept. 13; Sp. p. 2409; Gaz. vol. 158; p. 406.
Parsley, George T., Hornbrook, Cal. Combination-tool. No. 971,012; Sept. 20; Sp. p. 3971; Gaz. vol. 158; p. 679.
Parson, Henry E., assignor to Parson Manufacturing Company, New York, N. Y. Burning gases. No. 958,428; May 17; Sp. p. 4417; Gaz. vol. 154; p. 723.
Parson, Henry E., assignor to Parson Manufacturing Company, New York, N. Y. Furnace for burning blast-furnace gases. No. 958,429; May 17; Sp. p. 4422; Gaz. vol. 154; p. 724.
Parson Manufacturing Company. (See Parson, Henry E., assignor.)

Parsons, Albert S., Berkeley, Cal. Railway power transmission. No. 970,543; Sept. 20; Sp. p. 2990; Gaz. vol. 158; p. 520.
Parsons Band Cutter and Self Feeder Company. (See Hege, Gustavus A., assignor.)
Parsons, Charles A., Newcastle-upon-Tyne, England. Turbine. No. 958,430; May 17; Sp. p. 4426; Gaz. vol. 154; p. 724.
Parsons, Charles A., Newcastle-upon-Tyne, England. Heating of turbine parts. No. 966,588; Aug. 9; Sp. p. 1625; Gaz. vol. 157; p. 277.
Parsons, Charles A., Newcastle-upon-Tyne, England. Turbine. No. 972,907; Oct. 18; Sp. p. 3068; Gaz. vol. 159; p. 540.
Parsons, Charles A., Newcastle-upon-Tyne, England. Fluid-pressure turbine. No. 972,908; Oct. 18; Sp. p. 3077; Gaz. vol. 159; p. 540.
Parsons, Charles A., Newcastle-upon-Tyne, and J. Turnbull, Wallsend, England; said Turnbull assignor to said Parsons. Lubrication of thrust-bearings. No. 957,797; May 10; Sp. p. 2754; Gaz. vol. 154; p. 472.
Parsons, Charles A., and A. W. Bowerbank, Newcastle-upon-Tyne, England; said Bowerbank assignor to said Parsons. Controlling-valve for motors. No. 962,044; June 21; Sp. p. 3756; Gaz. vol. 155; p. 659.
Parsons, Charles A., and A. H. Law, Newcastle-upon-Tyne, England; said Law assignor to said Parsons. Regulation of dynamo-electric machinery. No. 978,638; Dec. 13; Sp. p. 2660; Gaz. vol. 161; p. 452.
Parsons, Charles A., G. G. Stoney, and E. Bennett, Newcastle-upon-Tyne, England; said Stoney and Bennett assignors to said Parsons. Reflector for searchlights and the like. No. 964,050; July 12; Sp. p. 2259; Gaz. vol. 156; p. 371.
Parsons, Charles A., G. G. Stoney, A. Q. Carnegie, and A. W. Bowerbank, Newcastle-upon-Tyne, England; said Stoney, Carnegie, and Bowerbank assignors to said Parsons. Controlling-valve for fluid-operated motors. No. 971,069; Sept. 27; Sp. p. 4113; Gaz. vol. 158; p. 727.
Parsons, Edward T., and W. J. O'Neil, Newark, assignors to C. A. Thompson Machine Company, Belleville, N. J. Machine for molding plastic material. No. 953,177; Mar. 29; Sp. p. 5588; Gaz. vol. 152; p. 1018.
Parsons, Emory, Chicago, Ill. Signaling system. No. 973,808; Oct. 25; Sp. p. 5022; Gaz. vol. 159; p. 873.
Parsons, Floyd Y., Paterson, N. J. Door structure. No. 963,386; July 5; Sp. p. 848; Gaz. vol. 156; p. 125.
Parsons, Fred O., Spirit Lake, Iowa. Photographic-printing machine. No. 977,543; Dec. 6; Sp. p. 299; Gaz. vol. 161; p. 44.
Parsons, Henry B., Zanesville, Ohio. Ink-well. No. 959,382; May 24; Sp. p. 6400; Gaz. vol. 154; p. 1070.
Parsons, Lewis E., Lewistown, Ill. Cutting mechanism for corn-harvesters. No. 958,165; May 17; Sp. p. 3744; Gaz. vol. 154; p. 633.
Parsons, Lewis E., Lewistown, Ill. Corn-harvester. No. 970,945; Sept. 20; Sp. p. 3849; Gaz. vol. 158; p. 657.
Parsons, Loren F., Albion, N. Y. Mold. No. 971,554; Oct. 4; Sp. p. 95; Gaz. vol. 159; p. 18.
Parsons, Louis M., Newell, Iowa. Sliding gate. No. 966,047; Aug. 2; Sp. p. 440; Gaz. vol. 157; p. 71.
Parsons, Miles B., Birmingham, Ala. Ejector. No. 966,048; Aug. 2; Sp. p. 446; Gaz. vol. 157; p. 71.
Parsons, Millard F., Kansas City, Kans. Grinding-tool. No. 956,822; May 3; Sp. p. 705; Gaz. vol. 154; p. 111.
Parsons, Oliver E., Wauwatosa, Wis. Window-sash hanger. No. 952,544; Mar. 22; Sp. p. 4225; Gaz. vol. 152; p. 775.
Parsons, William F., Irvine, Ky. Fume-arrester and smoke-purifier. No. 972,637; Oct. 11; Sp. p. 2469; Gaz. vol. 159; p. 420.
Parsons, Winslow R., Chicago, Ill. Annealing and tempering apparatus. No. 957,998; May 17; Sp. p. 3259; Gaz. vol. 154; p. 572.
Parsons, Winslow R., Chicago, Ill. Compound for smoothing and polishing articles and parts. No. 957,999; May 17; Sp. p. 3263; Gaz. vol. 154; p. 572.
Partenheimer, Otto, New York, N. Y. Ash-receptacle. No. 949,157; Feb. 15; Sp. p. 2899; Gaz. vol. 151; p. 513.
Partida, Rafael I., Torreon, Mexico. Automatic railway-switch device. No. 978,639; Dec. 13; Sp. p. 2662; Gaz. vol. 161; p. 453.
Partida, Rafael Y., Torreon, Mexico. Automatic railway-switch device. No. 963,642; July 5; Sp. p. 1362; Gaz. vol. 156; p. 211.
Partington, Albert E., Sydney, New South Wales, Australia. Multiple fusible cut-out for electrical circuits. No. 975,569; Nov. 15; Sp. p. 3329; Gaz. vol. 160; p. 565.
Partington, Charles, assignor to The Cincinnati Frog and Switch Company, Cincinnati, Ohio. Railway-switch stand. No. 977,833; Dec. 6; Sp. p. 900; Gaz. vol. 161; p. 142.
Partington, Susan C., Buffalo, N. Y. Protector for automobiles, &c. No. 969,899; Sept. 13; Sp. p. 1633; Gaz. vol. 158; p. 281.
Partrick, Alfred W., Yonkers, N. Y. Non-refillable bottle. No. 959,794; May 31; Sp. p. 7274; Gaz. vol. 154; p. 1233.
Partridge, Alwyn H., Denver, Colo. Dish-cleaner. No. 972,400; Oct. 11; Sp. p. 1917; Gaz. vol. 159; p. 337.
Partridge, Alwyn H., Denver, Colo., assignor of one-fourth to S. N. Pond, Morgan Park, Ill. Nut-lock. No. 969,397; Sept. 6; Sp. p. 529; Gaz. vol. 158; p. 84.
Partridge, Christie M., Sterling, Colo. Shoe-lace fastener. No. 948,460; Feb. 8; Sp. p. 1422; Gaz. vol. 151; p. 254.
Partridge, Lambert W., assignor to Flynn & Emrich Company, Baltimore, Md. Molding and baking machine. No. 974,705; Nov. 1; Sp. p. 1431; Gaz. vol. 160; p. 220.
Partridge, Thomas, Jr., J. Carr, and C. Gentle, assignors to R. T. Steele, Hamilton, Ontario, Canada. Ball-bearing. No. 966,589; Aug. 9; Sp. p. 1628; Gaz. vol. 157; p. 277.
Parvin, William J., Maryville, Mo. Holdback. No. 951,839; Mar. 15; Sp. p. 2803; Gaz. vol. 152; p. 511.
Pascal, William W. (See Gloor and Pascal.)
Pascale, Orazio, New York, N. Y. Portable inclosure for photographic purposes. No. 970,104; Sept. 13; Sp. p. 2067; Gaz. vol. 158; p. 351.
Pasche, John B., assignor to C. M. Mitchell, Snyder, Tex. Stovepipe-drum. No. 949,400; Dec. 20; Sp. p. 4276; Gaz. vol. 161; p. 735.
Paskowitz, Bernard, New York, N. Y. Sponging apparatus for tailors. No. 973,875; Oct. 25; Sp. p. 5167; Gaz. vol. 159; p. 897.
Paskus, Benjamin G. (See Daniel, Paul, assignor.)
Pasley, Ira, Olds, Alberta, Canada. Casting-harness. No. 957,517; May 10; Sp. p. 2179; Gaz. vol. 154; p. 376.
Pasman, Abram N., Jersey City, N. J. Flushing-valve. No. 956,158; Apr. 26; Sp. p. 5352; Gaz. vol. 153; p. 940.
Pass & Seymour. (See Crossley, James S., assignor.)
Pass & Seymour. (See Lux, Julius K., assignor.)
Pass & Seymour. (See Miller, Robert R., assignor.) (Reissue.)
Passman, Abraham, assignor to J. H. and I. Liederman and S. Soboroff, Chicago, Ill. Ear-protector. No. 970,544; Sept. 20; Sp. p. 2991; Gaz. vol. 158; p. 520.
Passono, Eugene, assignor to The Passono Metallic Packing Company, Toledo, Ohio. Metallic packing. No. 954,203; Apr. 5; Sp. p. 1077; Gaz. vol. 153; p. 182.
Passono Metallic Packing Company, The. (See Passono, Eugene, assignor.)
Passow, Hermann, Blankanese, Germany, assignor, by mesne assignments, to The Atlas Portland Cement Company, New York, N. Y. Apparatus for producing cement. No. 964,805; July 19; Sp. p. 3956; Gaz. vol. 156; p. 658.
Pastore, Ernesto, New Haven, Conn. Expansible bit. No. 963,468; July 5; Sp. p. 1013; Gaz. vol. 156; p. 153.
Pastors, George, Connellsville, Pa. Non-spilling cuspidor. No. 962,852; June 28; Sp. p. 5504; Gaz. vol. 155; p. 963.
Pastre, John P., Steubenville, Ohio. Car-wheel. No. 961,639; June 14; Sp. p. 2892; Gaz. vol. 155; p. 500.
Pataky, Frank, New York, N. Y. Car-fender. No. 954,762; Apr. 12; Sp. p. 2321; Gaz. vol. 153; p. 401.
Patch, Calvin B., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Car-door fastener. No. 968,190; Aug. 23; Sp. p. 5030; Gaz. vol. 157; p. 867.
Pate, John L., Madisonville, Ky. Scrubbing-brush. No. 969,184; Sept. 6; Sp. p. 90; Gaz. vol. 158; p. 14.
Pate, Joseph B., Durham, N. C. Spittoon. No. 977,218; Nov. 29; Sp. p. 6939; Gaz. vol. 160; p. 1179.
Pate, Robert L., Springfield, Mo. Article-holder. No. 958,526; May 17; Sp. p. 4614; Gaz. vol. 154; p. 757.
Patent Appliance Company, The. (See Ogden, Fredric D., assignor.)
Patent Appliance Company, The. (See Ogden, John E., assignor.)
Patent Heading Company, The. (See Clouse, Joseph N., assignor.)
Patent Holding Company. (See Luebben, Ummo, assignor.)
Patent Sales Company. (See Lemyre, Joseph E., assignor.)
Patented Specialties Company. (See Wilson, Michael H., assignor.)
Paterson, Dugald S., Philadelphia, Pa. Nut-lock. No. 972,086; Oct. 4; Sp. p. 1245; Gaz. vol. 159; p. 211.
Paterson, William, Toronto, Ontario, Canada. Pitman. No. 947,740; Jan. 25; Sp. p. 6052; Gaz. vol. 150; p. 1009.
Pates, Arthur J. (See Pratt and Pates.)
Patitz, Johann F. M., assignor to Allis-Chalmers Company, Milwaukee, Wis. Low-pressure steam-turbine. No. 961,086; June 7; Sp. p. 1715; Gaz. vol. 155; p. 285.
Patitz, Johann F. M., assignor to Allis-Chalmers Company, Milwaukee, Wis. Reaction-turbine. No. 961,087; June 7; Sp. p. 1716; Gaz. vol. 155; p. 285.
Patitz, Johann F. M., assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-turbine. No. 971,555; Oct. 4; Sp. p. 97; Gaz. vol. 159; p. 19.
Paton, John H., Toronto, Ontario, Canada. Boiler or heater. No. 963,936; July 12; Sp. p. 2015; Gaz. vol. 156; p. 331.
Paton, Walter J., assignor of one-half to L. S. Ryan, Galva, Kans. Hat-fastener. No. 959,586; May 31; Sp. p. 6844; Gaz. vol. 154; p. 1164.
Paton, William B., Cashmere, Wash. Box-covering machine. No. 965,738; July 26; Sp. p. 5918; Gaz. vol. 156; p. 1006.
Patriarche, Hugh R., Winnipeg, Manitoba, Canada. Tally-board. No. 949,379; Feb. 15; Sp. p. 3372; Gaz. vol. 151; p. 589.
Patrick, Edwin L. (See McIntosh, John, assignor.)

Alphabetical list of patentees—Continued.

Patrick, Frank H. (See Humphrey and Patrick.)
Patrick, Gilliam H. (See Hoxworth, Edwin, assignor.)
Patrick, Henry W., Elyria, Ohio. Sterilizing device. No. 974,514; Nov. 1; Sp. p. 1015; Gaz. vol. 160; p. 150.
Patrick, William B., Woodland, Cal. Air purifying and distributing apparatus. No. 956,159; Apr. 26; Sp. p. 5355; Gaz. vol. 153; p. 940.
Patronaggio, Joseph, New York, N. Y. Shaving-cup. No. 955,679; Apr. 19; Sp. p. 4300; Gaz. vol. 153; p. 743.
Patronaggio, Joseph, New York, N. Y. Collision shock-absorber for ships. No. 970,848; Sept. 20; Sp. p. 3672; Gaz. vol. 158; p. 627.
Patten, Estella G., Denver, Colo. Holder for smoothing-irons. No. 948,595; Feb. 8; Sp. p. 1725; Gaz. vol. 151; p. 299.
Patterson, Alice C. (See Patterson, George L., assignor.)
Patterson, Charles H. (See Wait, William O., assignor.)
Patterson, Charles H., Trinidad, Colo. Colt and calf weaner. No. 974,421; Nov. 1; Sp. p 769; Gaz. vol. 160; p. 116.
Patterson, Charles M. (See Jamison, Robert G., assignor.)
Patterson, Charles M. (See Pond, Edward C., assignor.)
Patterson, Charley T., Albany, Oreg. Telephone system. No. 968,396; Aug. 23; Sp. p. 5447; Gaz. vol. 157; p. 939.
Patterson, Clara B., Philadelphia, Pa. Hook and eye. No. 954,458; Apr. 12; Sp. p. 1618; Gaz. vol. 153; p. 295.
Patterson, Clarence G., Berkeley, Cal., assignor to The Butters Patent Vacuum Filter Company. Filter for metallurgical and other purposes. No. 946,862; Jan. 18; Sp. p. 4152; Gaz. vol. 150; p. 686.
Patterson, Frank B., Bullskin township, Fayette county, assignor of one-half to W. Herd, Connellsville, Pa. Gun. No. 952,940; Mar. 22; Sp. p. 5070; Gaz. vol. 152; p. 911.
Patterson, Franklin M., Bayonne, N. J., assignor of one-third to J. H. Allen, New York, N. Y., and A. B. Scully, Chicago, Ill. Rod for axles, stay and other bolts, and similar articles. No. 959,159; May 24; Sp. p. 5954; Gaz. vol. 154; p. 996.
Patterson, George L. (See Horner and Patterson.)
Patterson, George L., assignor to A. C. Patterson, New York, N. Y. Battery-holder system. No. 953,640; Mar. 29; Sp. p. 6581; Gaz. vol. 152; p. 1175.
Patterson, George L., assignor to A. C. Patterson, New York, N. Y. Battery and holder. No. 964,687; July 19; Sp. p. 3715; Gaz. vol. 156; p. 618.
Patterson, Harold D., assignor to Lauder & Patterson, Mount Vernon, N. Y. Resonant cab signaling system. No. 951,546; Mar. 8; Sp. p. 2199; Gaz. vol. 152; p. 382.
Patterson, Henry S., Farmington, W. Va. Expansion key-spike. No. 954,204; Apr. 5; Sp. p. 1078; Gaz. vol. 153; p. 182.
Patterson, James B., Philadelphia, Pa. Suspension-couch. No. 959,795; May 31; Sp. p. 7277; Gaz. vol. 154; p. 1233.
Patterson, James B., Philadelphia, Pa. Suspension-couch. No. 973,382; Oct. 18; Sp. p. 4125; Gaz. vol. 159; p. 704.
Patterson, James W., New York, N. Y. Single-action coin-controlled mechanism. No. 949,438; Feb. 15; Sp. p. 3491; Gaz. vol. 151; p. 610.
Patterson, James W., New York, N. Y. Vending-machine. No. 974,813; Nov. 8; Sp. p. 1660; Gaz. vol. 160; p. 278.
Patterson, James W., New York, N. Y. Vending-machine. No. 974,814; Nov. 8; Sp. p. 1662; Gaz. vol. 160; p. 279.
Patterson, John, Kenton, Ohio. Temporary binder. No. 962,460; June 28; Sp. p. 4687; Gaz. vol. 155; p. 827.
Patterson, John R., Newport, Wash. Perch for poultry. No. 964,806; July 19; Sp. p. 3960; Gaz. vol. 156; p. 658.
Patterson, John S., Springdale, assignor to Enameled Metals Company, Sharpsburg, Pa. Treating metal pipes. No. 950,341; Feb. 22; Sp. p. 5429; Gaz. vol. 151; p. 951.
Patterson, Lemuel, Olean, assignor of one-half to D. P. Daley, Bolivar, N. Y. Reinforced-concrete floor construction. No. 948,824; Feb. 8; Sp. p. 2220; Gaz. vol. 151; p. 376.
Patterson, Margaret A., Englewood, N. J. Toaster. No. 947,549; Jan. 25; Sp. p. 5688; Gaz. vol. 150; p. 944.
Patterson, Oscar M., assignor to G. H. Van Pelt, Chicago, Ill. Die. No. 945,799; Jan. 4; Sp. p. 1758; Gaz. vol. 150; p. 295.
Patterson, Pearl J., assignor of one-half to O. D. Jones, Edina, Mo. Rail-joint. No. 968,397; Aug. 23; Sp. p. 5455; Gaz. vol. 157; p. 940.
Patterson, Rufus L., *et al.* (See Tyberg, Oluf, assignor.)
Patterson, Rufus L., *et al.* (See Tyberg and Lake, assignors.)
Patterson, Thomas S., Rosemont, assignor to The Oil and Waste Saving Machine Company, Philadelphia, Pa. Washing-machine. No. 974,591; Nov. 1; Sp. p. 1178; Gaz. vol. 160; p. 180.
Patterson, Walter D., assignor to Amberg File & Index Co., Chicago, Ill. Extension drawer-support. No. 946,151; Jan. 11; Sp. p. 2505; Gaz. vol. 150; p. 418.
Patterson, Warren A., St. Louis, Mo. Cotton-separator. No. 951,218; Mar. 8; Sp. p. 1521; Gaz. vol. 152; p. 274.
Patterson, Warren A., assignor to The Cotton Harvester Company, St. Louis, Mo. Cotton-separator. No. 979,792; Dec. 27; Sp. p. 5151; Gaz. vol. 161; p. 893.
Patterson, William J., Pittsburg, Pa. Treating and handling coal preparatory to coking. No. 948,074; Feb. 1; Sp. p. 618; Gaz. vol. 151; p. 100.
Patterson, William L. (See Bausch and Patterson.)
Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projection apparatus. No. 957,899; May 17; Sp. p. 2970; Gaz. vol. 154; p. 537.
Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projection apparatus. No. 961,253; June 14; Sp. p. 2048; Gaz. vol. 155; p. 369.
Pattin, Richard, Güines, Cuba. Cigarette-maker. No. 947,122; Jan. 18; Sp. p. 4673; Gaz. vol. 150; p. 771.
Pattinson, John S. (See Holms, Green, and Pattinson.)
Pattison, Charles A., Missoula, Mont. Magazine-pistol. No. 947,718; Jan. 25; Sp. p. 6014; Gaz. vol. 150; p. 1001.
Pattison, Clarence A., and L. E. Roby, Peoria, Ill. Grain-drill. No. 951,741; Mar. 8; Sp. p. 2587; Gaz. vol. 152; p. 447.
Pattison, Stuart. (See Carrick, James T., assignor.)
Patton, Charles W. (See Washington, Dixon E., assignor.)
Patton, Clarence A., Bloomington, Ind. Corn-harvester. No. 950,824; Mar. 1; Sp. p. 782; Gaz. vol. 152; p. 124.
Patton, Clarence C., Cincinnati, Ohio. Device for transmission of power by friction. No. 978,778; Dec. 13; Sp. p. 2942; Gaz. vol. 161; p. 497.
Patton, James A., Hanover, Pa. Flush-closing freight-car door. No. 971,305; Sept. 27; Sp. p. 4590; Gaz. vol. 158; p. 804.
Patton, John B. (See Engberg, Ephraim O., assignor.)
Patton, John B. (See Tucker, Benjamin W., assignor.)
Patton, John G., Philadelphia, Pa. Theater-ticket envelop and advertising device. No. 954,336; Apr. 5; Sp. p. 1369; Gaz. vol. 153; p. 227.
Patton, John G., Philadelphia, Pa. Envelop and advertising device. No. 958,166; May 17; Sp. p. 3744; Gaz. vol. 154; p. 633.
Patton, John J., New York, N. Y. Tire. No. 979,882; Dec. 27; Sp. p. 5340; Gaz. vol. 161; p. 924.
Patton, John J., New York, N. Y. Tire. No. 979,883; Dec. 27; Sp. p. 5341; Gaz. vol. 161; p. 924.
Patton, Samuel, Washington, D. C. Gage-cock. No. 974,515; Nov. 1; Sp. p. 1017; Gaz. vol. 160; p. 151.
Patton, Trussie A., Cabool, Mo. Photographic-printing device. No. 960,192; May 31; Sp. p. 8150; Gaz. vol. 154; p. 1371.
Patton, William D., Dallas, Tex. Crude-oil burner. No. 972,401; Oct. 11; Sp. p. 1918; Gaz. vol. 159; p. 337.
Pattridge, Samuel C., *et al.* (See Gould, Edward, assignor.)
Paugh, Benjamin H., Parsons, W. Va. Concreter's bolt. No. 945,863; Jan. 11; Sp. p. 1918; Gaz. vol. 150; p. 318.
Paul, Adam, assignor to Adlerwerke vorm. Heinrich Kleyer Aktiengesellschaft, Frankfort-on-the-Main, Germany. Demountable tire-rim. No. 968,880; Aug. 30; Sp. p. 6495; Gaz. vol. 157; p. 1131.
Paul, Andrew, *et al.* (See Royal, William G., assignor.)
Paul, Andrew G., Boston, Mass. Steam-heating system. No. 971,070; Sept. 27; Sp. p. 4118; Gaz. vol. 158; p. 728.
Paul, Burton E., Tacoma, Wash. Non-refillable bottle. No. 954,044; Apr. 5; Sp. p. 723; Gaz. vol. 153; p. 127.
Paul, Christian F., Jr., assignor of one-tenth to K. Mott, Peekskill, N. Y. Rotary engine. No. 973,064; Oct. 18; Sp. p. 3429; Gaz. vol. 159; p. 594.
Paul, Clyde. (See Donley and Paul.)
Paul Dickinson (Incorporated). (See Caswell, Frederick K., assignor.)
Paul, Francis, Jr., assignor to P. Beaudoin, Montreal, Quebec, Canada. Washing-machine. No. 972,714; Oct. 11; Sp. p. 2623; Gaz. vol. 159; p. 445.
Paul, John B., Pittsburg, Pa. Sewage disposal by filtration and aeration. No. 977,965; Dec. 6; Sp. p. 1186; Gaz. vol. 161; p. 189.
Paul, John W., Kittanning, Pa. Type-writer. No. 954,581; Apr. 12; Sp. p. 1885; Gaz. vol. 153; p. 336.
Paul, John W., Kittanning, Pa., assignor to Union Typewriter Company, Ilion, N. Y. Type-writer. No. 971,469; Sept. 27; Sp. p. 4893; Gaz. vol. 158; p. 857.
Paul, William C., New York, N. Y. Type-writing machine. No. 957,624; May 10; Sp. p. 2387; Gaz. vol. 154; p. 414.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Wheeled plow. No. 948,247; Feb. 1; Sp. p. 950; Gaz. vol. 151; p. 156.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Sulky-plow. (Reissue.) No. 13,112; May 10; Sp. p. 2872; Gaz. vol. 154; p. 492.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow, cultivator, and the like. No. 968,398; Aug. 23; Sp. p. 5456; Gaz. vol. 157; p. 940.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Gang-plow. No. 974,592; Nov. 1; Sp. p. 1180; Gaz. vol. 160; p. 180.
Paul, William L., South Bend, Ind., assignor of one-half to H. T. Curtwright, St. Louis, Mo. Hose-reel. No. 972,222; Oct. 11; Sp. p. 1569; Gaz. vol. 159; p. 275.
Paul, Zacharier M., Fort Worth, Tex. Wrench. No. 951,219; Mar. 8; Sp. p. 1524; Gaz. vol. 152; p. 275.

Paulero, Louis, assignor to The Virginia Electric Tool Manufacturing Company, Petersburg, Va. Electrically-operated hammer. No. 946,267; Jan. 11; Sp. p. 2768; Gaz. vol. 150; p. 460.

Pauli, Carl, Roselle Park, N. J., assignor to New Jersey Foundry and Machine Company. Trolley. No. 963,387; July 5; Sp. p. 851; Gaz. vol. 156; p. 126.

Pauli, Carl, Roselle Park, N. J., assignor to New Jersey Foundry and Machine Company. Crane. No. 963,388; July 5; Sp. p. 855; Gaz. vol. 156; p. 126.

Paulissen, Joseph P., Kankakee, Ill. Spring-wheel. No. 965,122; July 19; Sp. p. 4583; Gaz. vol. 156; p. 765.

Paulitsch, Valentin Völkermarkt, Austria-Hungary. Potato-planting machine. No. 955,193; Apr. 19; Sp. p. 3225; Gaz. vol. 153; p. 578.

Paulson, Anthon A. (See Paulson, John A., assignor.)

Paulson, Charles J., Carlskrona, Sweden. Reflector for moving-picture machines. No. 947,256; Jan. 25; Sp. p. 4966; Gaz. vol. 150; p. 845.

Paulson, Charles J., Karlskrona, Sweden. Moving-picture machine. No. 957,246; May 10; Sp. p. 1615; Gaz. vol. 154; p. 285.

Paulson, John A., assignor of one-half to A. A. Paulson, River Falls, Wis. Quack-grass destroyer. No. 968,684; Aug. 30; Sp. p. 6101; Gaz. vol. 157; p. 1067.

Paulson, John B., *et al.* (See Hummel, Theodore, assignor.)

Paulson, Peter, Marshfield, Wis. Governing mechanism for explosive-engines. No. 961,156; June 14; Sp. p. 1845; Gaz. vol. 155; p. 335.

Paulson, Peter, Marshfield, Wis. Igniter for explosive-engines. No. 970,545; Sept. 20; Sp. p. 2992; Gaz. vol. 158; p. 521.

Paulson, Sivil, Red Willow, Alberta, Canada. Automatic firearm. No. 950,576; Mar. 1; Sp. p. 238; Gaz. vol. 152; p. 39.

Paulson, Sivil, Sioux Falls, S. D. Firearm. No. 950,577; Mar. 1; Sp. p. 241; Gaz. vol. 152; p. 40.

Paulson, Walter E., Hollandale, Wis. Wrench. No. 965,929; Aug. 2; Sp. p. 170; Gaz. vol. 157; p. 29.

Paulus, Charles F. (See Lent, Alvah F., assignor.)

Paulus, Hattie, assignor of one-half to E. H. Long, Piedmont, Okla. Washing-machine. No. 950,209; Feb. 22; Sp. p. 5165; Gaz. vol. 151; p. 906.

Pauly, Albert A., assignor to The Concrete Stone and Sand Company, Youngstown, Ohio. Apparatus for forming artificial stone. No. 965,002; July 19; Sp. p. 4354; Gaz. vol. 156; p. 726.

Pauly, Albert A., assignor to The Concrete Stone and Sand Company, Youngstown, Ohio. Manufacture of tile. No. 965,003; July 19; Sp. p. 4356; Gaz. vol. 156; p. 726.

Pauly, Albert A., assignor to The Concrete Stone and Sand Company, Youngstown, Ohio. Tile-making machine. No. 965,004; July 19; Sp. p. 4358; Gaz. vol. 156; p. 726.

Pauly, Albert A., assignor to The Concrete Stone and Sand Company, Youngstown, Ohio. Molding apparatus. No. 965,005; July 19; Sp. p. 4359; Gaz. vol. 156; p. 726.

Pauly, Albert A., assignor to The Concrete Stone and Sand Company, Youngstown, Ohio. Molding apparatus. No. 965,006; July 19; Sp. p. 4360; Gaz. vol. 156; p. 727.

Pauly, Albert A., assignor to The Concrete Stone and Sand Company, Youngstown, Ohio. Making artificial-stone articles. No. 965,007; July 19; Sp. p. 4362; Gaz. vol. 156; p. 727.

Pauly, John, Lowell, Mass. Game-counter. No. 979,997; Dec. 27; Sp. p. 5563; Gaz. vol. 161; p. 961.

Paustian, Emil H. (See Polo, Joseph B., assignor.)

Pautze, Hermann, Schöneberg, near Berlin, Germany. Press for stamping raised characters on printing-plates. No. 946,824; Jan. 18; Sp. p. 4059; Gaz. vol. 150; p. 673.

Pavey, Vernon F., Leesburg, Ohio. Corn-planter. No. 945,728; Jan. 4; Sp. p. 1566; Gaz. vol. 150; p. 241.

Pavy, Ernest A. A., North Parade, Jamestown, South Australia, Australia. Adjustable comb for grain-stripping machines. No. 955,098; Apr. 12; Sp. p. 3023; Gaz. vol. 153; p. 513.

Pawlik, Hugo, Uj-Pest, Austria-Hungary. Reversible propeller. No. 954,539; Apr. 12; Sp. p. 1799; Gaz. vol. 153; p. 323.

Pawling, Francis W., Salem, N. J. Glass-molding machine. No. 949,380; Feb. 15; Sp. p. 3376; Gaz. vol. 151; p. 589.

Pawsat, Ewald F. and H., Sheboygan, Wis. Gripper attachment for pedals. No. 959,160; May 24; Sp. p. 5957; Gaz. vol. 154; p. 997.

Pawsat, Ewald F. and H., Sheboygan, Wis. Grip attachment for pedals. No. 973,065; Oct. 18; Sp. p. 3432; Gaz. vol. 159; p. 594.

Pawsat, Hermann. (See Pawsat, Ewald F. and H.)

Paxton, Conrad, *et al.* (See Selden, Fleming J., assignor.)

Paxton, Cyrus H., Oshkosh, Wis. Trunk. No. 969,900; Sept. 13; Sp. p. 1636; Gaz. vol. 158; p. 282.

Paxton, James S., Luzerne, Ky. Mine-car coupling. No. 953,706; Apr. 5; Sp. p. 48; Gaz. vol. 153; p. 11.

Pay-As-You-Enter Car Corporation, The. (See Birney, Charles O., assignor.)

Pay-Within Car Company. (See Paden, Lewis E., assignor.)

Pay-Within Car Company, The. (See Rowntree, Harold, assignor.)

Paye & Baker Manufacturing Company. (See Nock, Harold E., assignor.)

Payne, A B. (See Crocker and Payne.)

Payne, Andrew R. (See Ross and Payne, assignors.)

Payne, Arthur S., and B. J. Wade, Troy, N. Y. Brush-making machinery. No. 958,431; May 17; Sp. p. 4437; Gaz. vol. 154; p. 725.

Payne, Charles H., Cincinnati, Ohio. Loose-leaf book. No. 947,620; Jan. 25; Sp. p. 5838; Gaz. vol. 150; p. 969.

Payne, Clarence C. (See Smith, Friend W., Jr., assignor.)

Payne, Claude L., Salem, Ind. Wire-fence machine. No. 966,590; Aug. 9; Sp. p. 1629; Gaz. vol. 157; p. 278.

Payne, David W., Elmira, assignor, by mesne assignments, to The D. W. Payne Controller & Engineering Company, New York, N. Y. Engine-governor. (Reissue.) No. 13,075; Jan. 11; Sp. p. 3427; Gaz. vol. 150; p. 549.

Payne, George. (See Ross and Payne.)

Payne, Jennie E., New York, N. Y. Shampoo protection device. No. 969,491; Sept. 6; Sp. p. 721; Gaz. vol. 158; p. 114.

Payne, Jesse M., Phoenix, and G. G. Wallace, Girard, Ala., assignors of one-sixth to E. W. Swift and one-sixth to J. P. Kyle. Apparatus for dyeing yarn. No. 976,830; Nov. 22; Sp. p. 6026; Gaz. vol. 160; p. 1018.

Payne, Orvin G., Fairbury, Ill. Cutting-board and clamp. No. 977,544; Dec. 6; Sp. p. 302; Gaz. vol. 161; p. 44.

Payne, Richard T., San Francisco, Cal. Embalming instrument. No. 966,591; Aug. 9; Sp. p. 1632; Gaz. vol. 157; p. 278.

Payne, Robert L. (See McCorkle and Payne.)

Payne, Thomas F., Pittsburg, Pa. Valve. No. 976,908; Nov. 29; Sp. p. 6219; Gaz. vol. 160; p. 1070.

Payne, Victor D., Colorado, Tex. Display-cabinet. No. 948,521; Feb. 8; Sp. p. 1566; Gaz. vol. 151; p. 276.

Payne, Willard T., Tacoma, Wash. Nut-lock. No. 962,582; June 28; Sp. p. 4964; Gaz. vol. 155; p. 869.

Payntar, William W., Columbus, Ohio. Window-screen. No. 953,758; Apr. 5; Sp. p. 153; Gaz. vol. 153; p. 29.

Paynter, William D., Grass Valley, Cal. Hinge. No. 976,392; Nov. 22; Sp. p. 5126; Gaz. vol. 160; p. 869.

Paysen, Andrew, St. Louis, Mo. Fish-hook. No. 959,587; May 31; Sp. p. 6845; Gaz. vol. 154; p. 1164.

Payton, C. T., *et al.* (See Mitchell, Charles E., assignor.)

Payton, James Y., assignor of one-half to J. D. Benson, Waldron, Ark. Fish-hook. No. 975,993; Nov. 15; Sp. p. 4181; Gaz. vol. 160; p. 708.

Payton, John G., assignor of one-half to T. W. Keasbey, Dunkirk, Ind. Burglar-alarm. No. 956,160; Apr. 26; Sp. p. 5358; Gaz. vol. 153; p. 941.

Payzant, Octave, New York, N. Y. Rail-joint. No. 977,040; Nov. 29; Sp. p. 6546; Gaz. vol. 160; p. 1117.

Payzant, Octave, New York, N. Y. Rail-fastening. No. 977,041; Nov. 29; Sp. p. 6547; Gaz. vol. 160; p. 1117.

Peabody School Furniture Company. (See Wolfe, Jacob J., assignor.)

Peacock, Albert F., Buchanan, Mich., assignor of one-half to A. E. Mead, Chicago, Ill. Differential gearing. No. 978,057; Dec. 6; Sp. p. 1365; Gaz. vol. 161; p. 219.

Peacock, George J., Albuquerque, N. Mex. Automatic rewinding device for electric-light cords. No. 973,553; Oct. 25; Sp. p. 4493; Gaz. vol. 159; p. 784.

Peacock, Samuel, Chicago, Ill., assignor to American Cyanamid Company, Baltimore, Md. Making stable cyanamid fertilizers. No. 968,399; Aug. 23; Sp. p. 5457; Gaz. vol. 157; p. 940.

Peacock, Thomas, Jerome, Ariz. Means for attaching surveyor's plumb-lines to the roof, sides, or floors of mine-workings, tunnels, or for similar purposes. No. 946,579; Jan 18; Sp. p. 3508; Gaz. vol. 150; p. 591.

Peacock, Thomas, Jerome, Ariz. Puzzle. No. 955,194; Apr. 19; Sp. p. 3227; Gaz. vol. 153; p. 579.

Peacock, William, Chicago, Ill. Machine for making horse-shoes. No. 960,390; June 7; Sp. p. 314; Gaz. vol. 155; p. 52.

Peakes, Paul P., and P. M. Hamlin, Milo, Me. Car-door fastening. No. 947,931; Feb. 1; Sp. p. 312; Gaz. vol. 151; p. 52.

Peall, Walter, Brighton, England. Game apparatus. No. 971,470; Sept. 27; Sp. p. 4898; Gaz. vol. 158; p. 857.

Pearce, Charles D., Canton, Mo. Stovepipe attachment. No. 953,707; Apr. 5; Sp. p. 49; Gaz. vol. 153; p. 12.

Pearce, Charles H., and L. T. Teuscher, Aspen, Colo. Portable fly-catcher. No. 954,337; Apr. 5; Sp. p. 1370; Gaz. vol. 153; p. 227.

Pearce, Clara, Philadelphia, Pa. Coffee-pot. No. 971,781; Oct. 4; Sp. p. 567; Gaz. vol. 159; p. 99.

Pearce, Herbert. (See Woodroffe, Pearce, and Billington.)

Pearce, Herbert, Broadheath, England. Bed-motion of printing-machines. No. 952,628; Mar. 22; Sp. p. 4417; Gaz. vol. 152; p. 805.

Pearce, Herbert, and J. E. Billington, Broadheath, England. Typographical composing-machine. No. 954,459; Apr. 12; Sp. p. 1620; Gaz. vol. 153; p. 295.

Pearce, Herbert, and J. E. Billington, Broadheath, England. Automatic pump stop mechanism for linotype-machines. No. 959,961; May 31; Sp. p. 7661; Gaz. vol. 154; p. 1292.

Alphabetical list of patentees—Continued.

Pearce, Joseph E., Houston, Tex. Car-door. No. 949,777; Feb. 22; Sp. p. 4175; Gaz. vol. 151; p. 754.
Pearce, Wallace E., Allison Park, Pa. Wrench. No. 968,970; Aug. 30; Sp. p. 6666; Gaz. vol. 157; p. 1161.
Peare, William E., Cincinnati, Ohio. Stop-cock and drain-valve. No. 968,794; Aug. 30; Sp. p. 6327; Gaz. vol. 157; p. 1103.
Pearl, Carlos E., assignor to Pearl Economy Pad Company, Boston, Mass. Horseshoe-pad. No. 951,772; Mar. 8; Sp. p. 2655; Gaz. vol. 152; p. 459.
Pearl Economy Pad Company. (See Pearl, Carlos E., assignor.)
Pearl, Henrietta, and C. F. Reinmann, New York, N. Y. Cover for culinary vessels. No. 947,025; Jan. 18; Sp. p. 4509; Gaz. vol. 150; p. 742.
Pearsall, Albert W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Carrier for pneumatic-despatch tubes. No. 962,045; June 21; Sp. p. 3759; Gaz. vol. 155; p. 659.
Pearsall, Albert W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 962,853; June 28; Sp. p. 5506; Gaz. vol. 155; p. 963.
Pearsall, Albert W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 962,854; June 28; Sp. p. 5508; Gaz. vol. 155; p. 964.
Pearsall, Albert W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 968,598; Aug. 30; Sp. p. 5876; Gaz. vol. 157; p. 1036.
Pearsall, Albert W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 978,198; Dec. 13; Sp. p. 1698; Gaz. vol. 161; p. 298.
Pearsall, Latham D., Oceanic, N. J. Animal-trap. No. 954,045; Apr. 5; Sp. p. 725; Gaz. vol. 153; p. 127.
Pearsall-Traver Manufacturing Company. (See Traver, Philip C., assignor.)
Pearsall, William, assignor to M. J. Whittall, Worcester, Mass. Jacquard mechanism for looms. No. 976,909; Nov. 29; Sp. p. 6221; Gaz. vol. 160; p. 1071.
Pearse, George A., Jr., New York, N. Y. Packing for pistons and the like. No. 951,333; Mar. 8; Sp. p. 1769; Gaz. vol. 152; p. 311.
Pearson, C. A., *et al.* (See Thompson, Andrew J., assignor.)
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Sweep-rake. No. 958,432; May 17; Sp. p. 4438; Gaz. vol. 154; p. 725.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Hay-rake. No. 959,796; May 31; Sp. p. 7278; Gaz. vol. 154; p. 1233.
Pearson, Charles O., New York, N. Y. Multiple metallic belt for traction-elevators. No. 975,790; Nov. 15; Sp. p. 3791; Gaz. vol. 160; p. 639.
Pearson, Charles O., New York, N. Y. Perforating-machine. No. 978,480; Dec. 13; Sp. p. 2297; Gaz. vol. 161; p. 397.
Pearson, Charles P., Providence, R. I. Swimming-glove. No. 958.527; May 17; Sp. p. 4615; Gaz. vol. 154; p. 757.
Pearson & Co., Gesellschaft mit beschränkter Haftung. (See Queisser, Max A., assignor.)
Pearson, Edwin, Rock Island, Ill. Indicator. No. 954,338; Apr. 5; Sp. p. 1371; Gaz. vol. 153; p. 227.
Pearson, Frederick J., Chicago, Ill., assignor to The Fisher Governor Company, Marshalltown, Iowa. Governor or regulator. No. 947,686; Jan. 25; Sp. p. 5957; Gaz. vol. 150; p. 991.
Pearson, James H., Westplains, Mo. Lawn-mower. No. 950,008; Feb. 22; Sp. p. 4743; Gaz. vol. 151; p. 837.
Pearson, James H., assignor of two-thirds to W. S. Morgan, Westplains, Mo. Gate. No. 964,807; July 19; Sp. p. 3961; Gaz. vol. 156; p. 658.
Pearson, James H., assignor to M. A. Cooper, West Plains, Mo. Rotary beater. No. 973,554; Oct. 25; Sp. p. 4494; Gaz. vol. 159; p. 784.
Pearson, John. (See Erickson and Pearson.)
Pearson, John, Chicago, Ill. Door mechanism. No. 945,108; Jan. 4; Sp. p. 208; Gaz. vol. 150; p. 35.
Pearson, John, Chicago, Ill. Car-roof. No. 949,838; Feb. 22; Sp. p. 4306; Gaz. vol. 151; p. 776.
Pearson, John, Chicago, Ill. Car-roof. No. 949,839; Feb. 22; Sp. p. 4308; Gaz. vol. 151; p. 776.
Pearson, John, Chicago, Ill. Door mechanism or the like. No. 977,676; Dec. 6; Sp. p. 576; Gaz. vol. 161; p. 88.
Pearson, Joseph, deceased, Philadelphia, (J. J. Pearson, administrator,) and H. Carter, Wrightsville, Pa. Yarn-trap for knitting-machines. No. 959,252; May 24; Sp. p. 6146; Gaz. vol. 154; p. 1027.
Pearson, Joseph J., administrator. (See Pearson and Carter.)
Pearson, Millard M., Schenectady, N. Y., assignor to General Electric Company. Governing mechanism. No. 954,646; Apr. 12; Sp. p. 2039; Gaz. vol. 153; p. 359.
Pearson, Otto, Worcester, Mass. Igniter. No. 953,488; Mar. 29; Sp. p. 6263; Gaz. vol. 152; p. 1123.
Pearson, Samuel J., assignor of one-half to J. M. Brasington, Bennettsville, S. C. Joint or coupling for vehicles, reaches, &c. No. 963,937; July 12; Sp. p. 2017; Gaz. vol. 156; p. 332.
Pearson, William E., Boston, Mass. Fluid power transmission and controlling apparatus. No. 972,223; Oct. 11; Sp. p. 1570; Gaz. vol. 159; p. 275.
Pease, Charles, Beverly, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Heel-finishing machine. No. 950,301; Feb. 22; Sp. p. 5343; Gaz. vol. 151; p. 938.
Pease, Charles, Salem, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Burnishing-machine. No. 959,880; May 31; Sp. p. 7471; Gaz. vol. 154; p. 1263.
Pease, Charles, Salem, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Bottom-finishing machine. No. 960,391; June 7; Sp. p. 316; Gaz. vol. 155; p. 53.
Pease, Charles, Salem, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Burnishing-machine. No. 974,422; Nov. 1; Sp. p. 770; Gaz. vol. 160; p. 117.
Pease, Charles F. (See Murray, Aristides R., assignor.)
Pease, Charles F., Chicago, Ill. Blue-printing machine. No. 972,909; Oct. 18; Sp. p. 3080; Gaz. vol. 159; p. 541.
Pease, Charles F. and M. V., and H. C. Gawler, assignors to The C. F. Pease Blue Print Machinery and Supply Company, Chicago, Ill. Machine for coating paper. No. 952.135; Mar. 15; Sp. p. 3387; Gaz. vol. 152; p. 609.
Pease, Edward G. (See Willi, Theodore, assignor.)
Pease, Frederick N., and M. E. McDonnell, Altoona, Pa. Metal-polish. No. 972,638; Oct. 11; Sp. p. 2471; Gaz. vol. 159; p. 420.
Pease, Herbert H., Port Williams, Wash. Slapping-glove. No. 972,224; Oct. 11; Sp. p. 1572; Gaz. vol. 159; p. 276.
Pease, John W., Rochester, N. Y. Sorting-machine. No. 975,064; Nov. 8; Sp. p. 2236; Gaz. vol. 160; p. 364.
Pease, Martha V. (See Pease and Gawler.)
Pease, Robert R., Bangor, Me. Clothes-drier. No. 964,543; July 19; Sp. p. 3301; Gaz. vol. 156; p. 566.
Pease, Roger S., Allegheny, assignor to A. M. Lee, trustee, Pittsburg, Pa. Glass-furnace and manufacturing glass articles therein. No. 967,966; Aug. 23; Sp. p. 4503; Gaz. vol. 157; p. 792.
Pease, Roger S., and J. A. Sweet, Hartford City, Ind., assignors to A. M. Lee, trustee, Pittsburg, Pa. Apparatus for the manufacture of window-glass. No. 946,921; Jan. 18; Sp. p. 4309; Gaz. vol. 150; p. 707.
Pease, Roger S., and J. A. Sweet, Hartford City, Ind., assignors to A. M. Lee, trustee, Pittsburg, Pa. Glass-tank. No. 967,967; Aug. 23; Sp. p. 4505; Gaz. vol. 157; p. 792.
Peat Gas and Coal Company. (See Oligny, Jean D., assignor.)
Pecar, Mirko. (See Friedlander and Pecar.)
Pecht, William W., Mansfield, Ohio. Bag-holder and truck. No. 947,419; Jan. 25; Sp. p. 5380; Gaz. vol. 150; p. 902.
Peck Air Compressor Company, The. (See Peck, Frank, assignor.)
Peck, Allen D. (See Hibbard, Charles B., assignor.)
Peck, Austin, assignor of forty one-hundredths to J. A. Peck, St. Louis, Mo. Umbrella. No. 960,038; May 31; Sp. p. 7862; Gaz. vol. 154; p. 1320.
Peck Bros. & Co., The. (See Newton, William G., assignor.)
Peck, Cassius C., Rochester, N. Y. Radiator drain-valve. No. 979,553; Dec. 27; Sp. p. 4608; Gaz. vol. 161; p. 811.
Peck, Charles W., Forestville, Conn. Mechanism for squaring the ends of spiral springs. No. 953,178; Mar. 29; Sp. p. 5592; Gaz. vol. 152; p. 1018.
Peck, E. W., *et al.* (See Wagniere, August, assignor.)
Peck, Edward M., deceased; N. E. Peck, executrix, New York, N. Y. Puzzle. No. 961,892; June 21; Sp. p. 3439; Gaz. vol. 155; p. 608.
Peck, Ernest S., Cleveland, Ohio. Percolator. No. 954,582; Apr. 12; Sp. p. 1888; Gaz. vol. 153; p. 337.
Peck, Eugene C., assignor to The Cleveland Twist Drill Co., Cleveland, Ohio. Making twist-drills. No. 968,400; Aug. 23; Sp. p. 5458; Gaz. vol. 157; p. 941.
Peck, Frank, assignor to The Peck Air Compressor Company, Rochester, N. Y. Rotary air-compressor. No. 949,714; Feb. 15; Sp. p. 4013; Gaz. vol. 151; p. 698.
Peck, Frank B. (See Johnston and Peck.)
Peck, Frank H., Galveston, Tex. Telephone-transmitter disinfector. No. 961,369; June 14; Sp. p. 2323; Gaz. vol. 155; p. 410.
Peck, George. (See McCreary, Abram T., assignor.)
Peck, Giles H., Grand Island, Nebr. Shipping-can. No. 968,971; Aug. 30; Sp. p. 6667; Gaz. vol. 157; p. 1161.
Peck, Ira F., Cranston, R. I. Tire. No. 963,320; July 5; Sp. p. 718; Gaz. vol. 156; p. 103.
Peck, Ira F., Providence, R. I., assignor to B. A. Ball and H. A. Sévigné, Boston, Mass. Bread-wrapping machine. No. 956,994; May 3; Sp. p. 1076; Gaz. vol. 154; p. 169.
Peck, Irving W., Bradentown, Fla. Fruit cleaner and grader. No. 975,452; Nov. 15; Sp. p. 3063; Gaz. vol. 160; p. 524.
Peck, John A. (See Peck, Austin, assignor.)
Peck, Myles W., Putney, London, England. Spring-wheel. No. 974,815; Nov. 8; Sp. p. 1664; Gaz. vol. 160; p. 279.
Peck, Nellie E., executrix. (See Peck, Edward M.)

Alphabetical list of patentees—Continued.

Peck, Philip C. (See Ladoff, Isador, assignor.)
Peck, Philip C., *et al.* (See Ladoff, Isador, assignor.)
Peck, Samuel J. (See Bolner, Abram P., assignor.)
Peck, Staunton B., Chicago, Ill. Coal-handling device. No. 968,795; Aug. 30; Sp. p. 6328; Gaz. vol. 157; p. 1103.
Peck, Stow & Wilcox Company. (See Mathes, Philip, assignor.)
Peck, Walter W., Manchester, England. Coke-oven. No. 974,423; Nov. 1; Sp. p. 776; Gaz. vol. 160; p. 117.
Peck, William A., Jersey City, N. J. Extension bit-holder. No. 954,046; Apr. 5; Sp. p. 727; Gaz. vol. 153; p. 127.
Peck, Williamson Heating & Ventilating Company, The. (See Holub, Charles J., assignor.)
Peckham, Albert E., Grand Rapids, assignor, by mesne assignments, to Krentler-Arnold Hinge Last Company, Detroit, Mich. Locking hinged last. No. 960,578; June 7; Sp. p. 696; Gaz. vol. 155; p. 115.
Peckham, Charles W., Haven, Kans. Reinforced concrete construction. No. 950,401; Feb. 22; Sp. p. 5532; Gaz. vol. 151; p. 969.
Peckham, Clarence E., Columbia Cross Roads, Pa. Hand-cart support. No. 947,454; Jan. 25; Sp. p. 5454; Gaz vol. 150; p. 912.
Peckham, Richard T., New York, N. Y., assignor to American Lithographic Company. Picture-puzzle. No. 950,951; Mar. 1; Sp. p. 1024; Gaz. vol. 152; p. 164.
Peckham, Samuel C., Austin, Tex. Nutcracker. No. 947,932; Feb. 1; Sp. p. 313; Gaz. vol. 151; p. 52.
Peckham, William T., Providence, R. I. Device for reflecting the concealed sides of cards. No. 958,762; May 24; Sp. p. 5090; Gaz. vol. 154; p. 860.
Pedaphone Company. (See Gaynor, Thomas F., assignor.)
Pedder, Wilmer W., Los Angeles, Cal. Drilling and cementing wells. No. 975,065; Nov. 8; Sp. p. 2238; Gaz. vol. 160; p. 365.
Peddle, George H., Perry, N. Y. Surgeon's scissors. No. 973,296; Oct. 18; Sp. p. 3934; Gaz. vol. 159; p. 673.
Peddy, John T. (See Nelson, George A., assignor.)
Peddy, Thomas T., Bienville, assignor of fifteen one-hundredths to J. L. Baker, Mount Lebanon, La., and thirty one-hundredths to G. F. Gallagher, Rochester, N. Y. Combined ventilator and deflector. No. 973,966; Oct. 25; Sp. p. 5341; Gaz. vol. 159; p. 929.
Peden, John H., Hot Springs, Ark. Harrow. No. 948,769; Feb. 8; Sp. p. 2111; Gaz. vol. 151; p. 358.
Pedersen, Carl E., Tönsberg, Norway. Apparatus for manufacturing horseshoes. No. 953,759; Apr. 5; Sp. p. 154; Gaz. vol. 153; p. 29.
Pedersen, Christian, Skörring Pr. Galten, Jutland, Denmark, assignor to Landis Machine Company, St. Louis, Mo. Awl-feed for sewing-machines. No. 960,692; June 7; Sp. p. 927; Gaz. vol. 155; p. 153.
Pedersen, Christian, Skörring pr. Galten, Denmark, assignor to Landis Machine Company, St. Louis, Mo. Tension device for sewing-machines. No. 961,893; June 21; Sp. p. 3440; Gaz. vol. 155; p. 608.
Pedersen, Christian, assignor to Landis Machine Company, St. Louis, Mo. Wax-thread sewing-machine. No. 976,746; Nov. 22; Sp. p. 5841; Gaz. vol. 160; p. 989.
Pedersĕn, Johannes T., Woodside, assignor to Pedersĕn Manufacturing Company, New York, N. Y. Lubricator. No. 945,585; Jan. 4; Sp. p. 1243; Gaz. vol. 150; p. 193.
Pedersen, John D., Jackson, Wyo. Firearm-magazine fastener. No. 951,657; Mar. 8; Sp. p. 2429; Gaz. vol. 152; p. 420.
Pedersen, John D., Jackson, Wyo. Cartridge-stop for magazine-firearms. No. 953,797; Apr. 5; Sp. p. 229; Gaz. vol. 153; p. 41.
Pedersen, John D., Jackson, Wyo. Firearm. No. 963,171; July 5; Sp. p. 362; Gaz. vol. 156; p. 52.
Pedersĕn Manufacturing Company. (See Pedersĕn, Johannes T., assignor.)
Pedersen, Mikael, Dursley, England. Furnace for the annealing of metals. No. 955,989; Apr. 26; Sp. p. 4982; Gaz. vol. 153; p. 881.
Pedersen, Mikael, Dursley, England. Wheel-cutting machine. No. 959,588; May 31; Sp. p. 6847; Gaz. vol. 154; p. 1163.
Pedersen, Niels. (See Leich and Pedersen.)
Pedersen, Niels, assignor to Cracraft-Leich Electric Company, Genoa, Ill. Transmitter-mounting. No. 958,167; May 17; Sp. p. 3747; Gaz. vol. 154; p. 633.
Pedersen, Thomas, Wallace, Idaho. Fishing-tackle. No. 967,660; Aug. 16; Sp. p. 3874; Gaz. vol. 157; p. 665.
Pederson, Petter C. N., Superior, Wis. Wall-covering. No. 955,429; Apr. 19; Sp. p. 3743; Gaz. vol. 153; p. 657.
Pedrick, Frank, Columbus, Ohio. Interior wall-facing. No. 946,731; Jan. 18; Sp. p. 3836; Gaz. vol. 150; p. 640.
Péducasse, Bernard, Lyon, France. Brake-controlling device for bicycles. No. 952,349; Mar. 15; Sp. p. 3804; Gaz. vol. 152; p. 681.
Peek, Frank W., Jr., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 973,555; Oct. 25; Sp. p. 4496; Gaz. vol. 159; p. 785.
Peeples, George L., Washington, D. C. Coupling for electroliers. No. 967,548; Aug. 16; Sp. p. 3655; Gaz. vol. 157; p. 629.
Peeples, Oscar H., Kincaid, Miss. Plow. No. 970,105; Sept. 13; Sp. p. 2068; Gaz. vol. 158; p. 351.
Peeples, Oscar H. and W. G., Grenada, Miss. Garden implement. No. 959,797; May 31; Sp. p. 7280; Gaz. vol. 154; p. 1234.
Peeples, Sarah E., Washington, D. C. Insulated pipe-coupling. No. 969,492; Sept. 6; Sp. p. 723; Gaz. vol. 158; p. 114.
Peeples, Thomas G., Grenada, Miss. Back-band hook. No. 957,366; May 10; Sp. p. 1876; Gaz. vol. 154; p. 326.
Peeples, William G. (See Peeples, Oscar H. and W. G.)
Peerless Auto Pull Co. (See Ritzman, Otto E., assignor.)
Peerless Cream Separator Company. (See Bernard, Lewis A., assignor.)
Peerless Crown Cork Feeder Company. (See Freyer, Egmont R., assignor.)
Peerless Electric Company, The. (See Lipps, Evrah C., assignor.)
Peerless Machinery Company, The. (See Muther and Henderson, assignors.)
Peerless Motor Car Company, The. (See Schmidt, Charles, assignor.)
Peerless Pearl Company. (See McCoy, Robert, assignor.)
Peerless Rubber Manufacturing Company. (See Prosser, Charles S., assignor.)
Peerstone, Earl D., Chicago, Ill. Bed-cover support. No. 951,618; Mar. 8; Sp. p. 2342; Gaz. vol. 152; p. 406.
Peet, Wilbur G., Bridgeport, Conn. Shuttle. No. 974,291; Nov. 1; Sp. p. 483; Gaz. vol. 160; p. 70.
Peet, William, Cincinnati, Ohio. Roller-caster. No. 945,981; Jan. 11; Sp. p. 2168; Gaz. vol. 150; p. 361.
Peetz, Benjamin F., Moro, Oreg. Copy-holder. No. 951,697; Mar. 8; Sp. p. 2489; Gaz. vol. 152; p. 432.
Peetz, Benjamin F., Moro, Oreg. Copy-holder. No. 957,798; May 10; Sp. p. 2756; Gaz. vol. 154; p. 472.
Peffer, Anton T., St. Cloud, Minn. Boot-blacking machine. No. 947,933; Feb. 1; Sp. p. 318; Gaz. vol. 151; p. 53.
Peffer, Harry C., East St. Louis, Ill. Target-trap carrier. No. 854,583; Apr. 12; Sp. p. 1891; Gaz. vol. 153; p. 337.
Pegg, James A., assignor of one-half to W. H. Dawson, Strabane, Ontario, Canada. Locomotive smoke-box. No. 967,968; Aug. 23; Sp. p. 4507; Gaz. vol. 157; p. 792.
Peglar, Arthur R., Columbus, Ohio. Clamp. No. 946,152; Jan. 11; Sp. p. 2509; Gaz. vol. 150; p. 418.
Pegram, George H., New York, N. Y. Cement wall. No. 948,186; Feb. 1; Sp. p. 828; Gaz. vol. 151; p. 136.
Peifer, Frank, Beason, and T. L. Peifer, Lincoln, Ill. Automatic stock-salting device. No. 948,794; Feb. 8; Sp. p. 2154; Gaz. vol. 151; p. 367.
Peifer, Thomas L. (See Peifer, Frank and T. L.)
Peiffer, Charles W., Llewellyn, Pa. Nut-lock. No. 953,545; Mar. 29; Sp. p. 6386; Gaz. vol. 152; p. 1144.
Peil, Joseph, Bloomer, Wis. Combined cultivating and insect-destroying machine. No. 947,455; Jan. 25; Sp. p. 5455; Gaz. vol. 150; p. 913.
Peirce, Charles L., Jr., Chicago, Ill., assignor to The W. G. Nagel Electric Company, Toledo, Ohio. Cable-hanger. No. 953,394; Mar. 29; Sp. p. 6069; Gaz. vol. 152; p. 1090.
Peirce, Fisher & Clapp. (See Macphail, James, assignor.)
Peirce, Hiram H., Indianapolis, Ind. Horseshoe. No. 962,165; June 21; Sp. p. 4050; Gaz. vol. 155; p. 703.
Peirce, John R., assignor to Royden Marble Machinery Company, New York, N. Y. Stone-saw. No. 962,663; June 28; Sp. p. 5125; Gaz. vol. 155; p. 896.
Peironnet, James S., Wheaton, Ill. Chicken-hovel. No. 959,161; May 24; Sp. p. 5959; Gaz. vol. 154; p. 997.
Peiseler, Gottlieb, Remscheid-Haddenbach, Germany. Machine for producing files and rasps. No. 957,367; May 10; Sp. p. 1877; Gaz. vol. 154; p. 327.
Pejauo, Albert D., assignor to The American Folding Machine Company, Cleveland, Ohio. Paper-folding machine. No. 972,469; Oct. 11; Sp. p. 2062; Gaz. vol. 159; p. 360.
Pejchar, Josef, Cincinnati, Ohio, assignor to Mooney & Crane, Chicago, Ill. Cuff-button. No. 969,297; Sept. 6; Sp. p. 307; Gaz. vol. 158; p. 50.
Pelar, William E., St. Joseph, Mo. Sash or window lock. No. 979,884; Dec. 27; Sp. p. 5342; Gaz. vol. 161; p. 924.
Pelham, Alphonzo E. (See Sill, Richard V., assignor.)
Pelham, Joseph, assignor of one-half to J. D. Hubbard, Versailles, Mo. Tube sewing and turning machine. No. 978,481; Dec. 13; Sp. p. 2302; Gaz. vol. 161; p. 397.
Pelishek, Wenzel, Kewaunee, Wis. Table. No. 969,901; Sept. 13; Sp. p. 1639; Gaz. vol. 158; p. 282.
Pell, Joseph C. (See Pell, Tom B. and J. C.)
Pell, Tom B. and J. C., Lewisport, Ky. Overalls. No. 965,596; July 26; Sp. p. 5626; Gaz. vol. 156; p. 958.
Pelletier, Alfred, Chicago, Ill. Means for generating power. No. 957,086; May 3; Sp. p. 1260; Gaz. vol. 154; p. 200.
Pelletier, Alfred, Chicago, Ill. Internal-combustion power-generator. No. 979,554; Dec. 27; Sp. p. 4612; Gaz. vol. 161; p. 811.
Pellett, Ernest, assignor of one-half to H. J. Martin, Eastbourne, England. Casement, sash, door, and the like. No. 977,470; Dec. 6; Sp. p. 91; Gaz. vol. 161; p. 17.
Pellissier, George E., Holyoke, Mass., assignor to Goldschmidt Thermit Company, New York, N. Y. Shearing-tool. No. 958,972; May 24; Sp. p. 5565; Gaz. vol. 154; p. 935.

Alphabetical list of patentees—Continued.

Peloso, Salvator. (See Iannelli, Joseph F., assignor.)
Pelot, Irvin B. (See Pelot, Russell E., I. B., and W. D.)
Pelot, Russell E., I. B., and W. D., assignors to Moist Proof Pressed Brick Company, Inc., Norfolk, Va. Compound for making artificial-stone building bricks or blocks. No. 964,544; July 19; Sp. p. 3304; Gaz. vol. 156; p. 566.
Pelot, William D. (See Pelot, Russell E., I. B., and W. D.)
Peloubet, Alexander H., Newark, N. J. Resilient wheel. No. 962,975; June 28; Sp. p. 5732; Gaz. vol. 155; p. 1004.
Pelstring, Henry G., Covington, Ky. Trick-picture. No. 965,321; July 26; Sp. p. 5012; Gaz. vol. 156; p 863.
Pelton, Charles H., Springfield, Ohio. Hat and coat hanger. No. 959,589; May 31; Sp. p. 6851; Gaz. vol. 154; p. 1163.
Pelton, Charles H., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Fertilizer-distributer. No. 955,354; Apr. 19; Sp. p. 3580; Gaz. vol. 153; p. 633.
Pelton, Martin H. (See Faucett, James E., assignor.)
Pelton Water Wheel Company, The. (See Henry, George J., Jr., assignor.)
Pelton Water Wheel Company, The. (See Libby, Dorville, Jr., assignor.)
Peltzer, Albert, Chicago, Ill. Apparatus for steeping cereals. No. 952,136; Mar. 15; Sp. p. 3389; Gaz. vol. 152; p. 609.
Pelz, Martin, New York, N. Y. Non-refillable bottle. No. 979,998; Dec. 27; Sp. p. 5565; Gaz. vol. 161; p. 962.
Pember, John H., Columbus, Ohio. Micrometer attachment for machinists' calipers. No. 962,583; June 28; Sp. p. 4965; Gaz. vol. 155; p. 869.
Pemberton, David, Laferty, Ohio. Ceiling-support. No. 949,909; Feb. 22; Sp. p. 4491; Gaz. vol. 151; p. 802.
Pemberton, George F., Lincoln, Cal. Apparatus for making tapering plastic forms. No. 952,684; Mar. 22; Sp. p. 4537; Gaz. vol. 152; p. 824.
Pemberton, John W. (See Jorden and Pemberton.)
Pemberton, Richard N., Topeka, Kans. Bill-book. No. 966,352; Aug. 2; Sp. p. 1052; Gaz. vol. 157; p. 170.
Pemberton, Willis E., *et al.* (See Livering, Charles J., assignor.)
Pembroke, Michael, Montpelier, Vt. Stone-polishing machine. No. 946,616; Jan. 18; Sp. p. 3590; Gaz. vol. 150; p. 604.
Penberthy Injector Company. (See Sweeney, Peter J., assignor.)
Pence, Charles, Galena, Kans. Truss. No. 963,469; July 5; Sp. p. 1014; Gaz. vol. 156; p. 153.
Pence, Edward L., assignor of one-half to J. F. Boland, Memphis, Tenn. Device for preventing theft from cars. No. 968,494; Aug. 23; Sp. p. 5649; Gaz. vol. 157; p. 973.
Pence, John H., Roanoke, Va. Water vessel. No. 965,651; July 26; Sp. p. 5747; Gaz. vol. 156; p. 977.
Pence, Warren, C. R. Wolf, and V. O. Jarvis, Los Angeles, Cal. Joint. No. 958,276; May 17; Sp. p. 3967; Gaz. vol. 154; p. 668.
Pence, Warren, C. R. Wolf, and V. O. Jarvis, Los Angeles, Cal. Folding extensible horse. No. 962,976; June 28; Sp. p. 5734; Gaz. vol. 155; p. 1004.
Pendarvis, Fredrick A., Villisca, Iowa. Cultivator-shovel. No. 961,640; June 14; Sp. p. 2893; Gaz. vol. 155; p. 500.
Pender, James E. P., assignor to Gorham Manufacturing Company, Providence, R. I. Match-box. No. 969,076; Aug. 30; Sp. p. 6885; Gaz. vol. 157; p. 1198.
Pendergast, Andrew J. L. (See Morris, Edward J., assignor.)
Pendergast, Michael J. (See Rice and Pendergast.)
Pendergrass, Edward A. (See Cordle, Hamner J., assignor.)
Pendery, William H., assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Ready-made roofing. No. 948,116; Feb. 1; Sp. p. 697; Gaz. vol. 151; p. 114.
Pendleberry, William J., Knoxville, assignor of one-third to T. H. Wallace, Allegheny county, Pa. Candy-wrapping machine. No. 964,689; July 19; Sp. p. 3718; Gaz. vol. 156; p. 618.
Pendleton, Frank E., assignor to G. C. St. John, Montclair, N. J. Steam-meter. No. 963,643; July 5; Sp. p. 1364; Gaz. vol. 156; p. 212.
Pendleton, Harry F., Brooklyn, N. Y., assignor to The American Wringer Company. Vulcanizing rubber. No. 956,409; Apr. 26; Sp. p. 5898; Gaz. vol. 153; p. 1025.
Pendleton, Harry F., Brooklyn, N. Y., assignor to The American Wringer Company. Roller, bumper, &c. No. 956,503; Apr. 26; Sp. p. 6113; Gaz. vol. 153; p. 1058.
Pendleton, Herbert L., Wyalusing, Wis. Ironing-board. No. 963,644; July 5; Sp. p. 1368; Gaz. vol. 156; p. 212.
Pendleton, John S., Lincoln, Ill. Packing for piston-rods. No. 963,645; July 5; Sp. p. 1370; Gaz. vol. 156; p. 213.
Pendleton, L. L., *et al.* (See Gager, Lee E., assignor.)
Pendleton, Oscar G., Girard, Ill. Locomotive. No. 970,389; Sept. 13; Sp. p. 2645; Gaz. vol. 158; p. 446.
Pendry, William A., Detroit, Mich. Engineer's valve. No. 959,798; May 31; Sp. p. 7282; Gaz. vol. 154; p. 1234.
Pendry, William A., Detroit, Mich. Engineer's valve. No. 959,799; May 31; Sp. p. 7286; Gaz. vol. 154; p. 1235.
Pendry, William A., Detroit, Mich. Triple valve. No. 959,800; May 31; Sp. p. 7290; Gaz. vol. 154; p. 1235.
Pendry, William A., Detroit, Mich. Triple valve. No. 959,801; May 31; Sp. p. 7294; Gaz. vol. 154; p. 1235.
Pendry, William A., Detroit, Mich. Engineer's valve. No. 959,802; May 31; Sp. p. 7298; Gaz. vol. 154; p. 1236.
Pendry, William A., Detroit, Mich. Triple valve. No. 978,640; Dec. 13; Sp. p. 2665; Gaz. vol. 161; p. 453.
Pène, Xavier, Ozone Park, assignor to R. L. Low, trustee, Jamaica, N. Y. Bottle-wrapper. No. 950,785; Mar. 1; Sp. p. 700; Gaz. vol. 152; p. 112.
Penfield, Charles L. (See Penfield, William A. and C. L.)
Penfield, Raymond C. (See Fiske, Jonathan P. B., assignor.)
Penfield, Raymond C., New York, N. Y. Machine for handling bricks. No. 954,584; Apr. 12; Sp. p. 1893; Gaz. vol. 153; p. 338.
Penfield, Raymond C., New York, N. Y. Machine for handling bricks. No. 957,368; May 10; Sp. p. 1880; Gaz. vol. 154; p. 327.
Penfield, Raymond C., New York, N. Y. Brick-setting frame. No. 958,973; May 24; Sp. p. 5566; Gaz. vol. 154; p. 935.
Penfield, Raymond C., New York, N. Y. Handling brick and delivering the same for use or storage. No. 961,314; June 14; Sp. p. 2208; Gaz. vol. 155; p. 392.
Penfield, Raymond C., New York, N. Y. Machine for handling bricks. No. 962,584; June 28; Sp. p. 4966; Gaz. vol. 155; p. 870.
Penfield, Raymond C., New York, N. Y. Apparatus for handling bricks in bulk. No. 967,661; Aug. 16; Sp. p. 3875; Gaz. vol. 157; p. 665.
Penfield, Raymond C., New York, N. Y. Device for handling bricks. No. 967,662; Aug. 16; Sp. p. 3879; Gaz. vol. 157; p. 666.
Penfield, Raymond C., New York, N. Y. Portable brick-handling device. No. 967,663; Aug. 16; Sp. p. 3883; Gaz. vol. 157; p. 666.
Penfield, Raymond C., New York, N. Y. Dry-pan. No. 974,179; Nov. 1; Sp. p. 152; Gaz. vol. 160; p. 28.
Penfield, Raymond C., New York, N. Y. Dry-pan. No. 974,180; Nov. 1; Sp. p. 155; Gaz. vol. 160; p. 28.
Penfield, Raymond C., New York, N. Y. Machine for handling bricks. No. 974,292; Nov. 1; Sp. p. 485; Gaz. vol. 160; p. 71.
Penfield, Raymond C., New York, N. Y. Dry-pan. No. 974,816; Nov. 8; Sp. p. 1665; Gaz. vol. 160; p. 279.
Penfield, Raymond C., New York, N. Y. Dry-pan. No. 974,817; Nov. 8; Sp. p. 1668; Gaz. vol. 160; p. 280.
Penfield, Raymond C., New York, N. Y. Dry-pan. No. 974,818; Nov. 8; Sp. p. 1663; Gaz. vol. 160; p. 280.
Penfield, Raymond C., New York, N. Y. Machine for handling bricks. No. 975,713; Nov. 15; Sp. p. 3635; Gaz. vol. 160; p. 612.
Penfield, Raymond C., New York, N. Y. Portable brick-handling device. No. 976,393; Nov. 22; Sp. p. 5128; Gaz. vol. 160; p. 870.
Penfield, Raymond C., New York, N. Y. Machine for handling bricks. No. 976,394; Nov. 22; Sp. p. 5132; Gaz. vol. 160; p. 870.
Penfield, Raymond C., New York, and F. S. Naugle, Warner, N. Y. Brick-kiln. No. 972,570; Oct. 11; Sp. p. 2315; Gaz. vol. 159; p. 397.
Penfield, William A. and C. L., Meriden, Conn. Anti-vibration device for vehicles. No. 968,259; Aug. 23; Sp. p. 5171; Gaz. vol. 157; p. 891.
Penglase, Joseph, Grosse Ile, Mich. Cable-button. No. 965,739; July 26; Sp. p. 5920; Gaz. vol. 156; p. 1007.
Penhorwood, John H., Buckeye City, Ohio. Horseshoe. No. 970,946; Sept. 20; Sp. p. 3852; Gaz. vol. 158; p. 658.
Penlington, Fred, Gorton, Manchester, England. Core-making and sand-molding machine. No. 946,645; Jan. 18; Sp. p. 3652; Gaz. vol. 150; p. 612.
Penman, William, Denison, Tex. Neck-cleaning device for bottle-washers. No. 975,066; Nov. 8; Sp. p. 2240; Gaz. vol. 160; p. 365.
Penn, Oliver, Pittsburg, Pa. Emergency-valve. No. 945,586; Jan. 4; Sp. p. 1246; Gaz. vol. 150; p. 193.
Penn, William E., Lakemills, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Churn and butter-worker. No. 952,685; Mar. 22; Sp. p. 4539; Gaz. vol. 152; p. 825.
Pennell, William, Berrien Springs, Mich. Scraping-tool. No. 972,225; Oct. 11; Sp. p. 1573; Gaz. vol. 159; p. 276.
Penney, Frank O., Richwood, Ohio. Brooder. No. 976,685; Nov. 22; Sp. p. 5721; Gaz. vol. 160; p. 969.
Penney, Harold D., assignor to American Couch Company, New York, N. Y. Caster-holder. No. 962,461; June 28; Sp. p. 4689; Gaz. vol. 155; p. 828.
Penney, Harold D., Pelham, assignor of one-half to W. H. Reid, Brooklyn, N. Y. Gas-burner for lamps. No. 968,260; Aug. 23; Sp. p. 5172; Gaz. vol. 157; p. 891.
Penney, Herbert E., assignor to Nott Fire Engine Company, Minneapolis, Minn. Vehicle-brake. No. 949,246; Feb. 15; Sp. p. 3064; Gaz. vol. 151; p. 542.
Penney, James A., McKeesport, Pa. Furnace. No. 959,253; May 24; Sp. p. 6149; Gaz. vol. 154; p. 1027.
Penney, John H., Hixon, Tenn. Metal railway-tie. No. 956,779; May 3; Sp. p. 596; Gaz. vol. 154; p. 95.
Pennie, John C., *et al.* (See Wilkinson, John A., assignor.)
Pennings, Pieter J., Kiel, Germany. Condenser-pump. No. 945,587; Jan. 4; Sp. p. 1248; Gaz. vol. 150; p. 194.

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Pennington, Frank E., Toledo, Ill. Land-roller. No. 953,546; Mar. 29; Sp. p. 6387; Gaz. vol. 152; p. 1144.
Pennington, Harley D., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Cross-roll trough. No. 959,433; May 24; Sp. p. 6480; Gaz. vol. 154; p. 1086.
Pennington, Harry. (See Ball, McNiel, and Pennington.)
Pennington, Harry E., and H. W. Raymond, North Abington, Mass. Trap-nest. No. 971,401; Sept. 27; Sp. p. 4776; Gaz. vol. 158; p. 835.
Pennington, Jesse D., and F. C. Andrews, Shreveport, La. Fringe-combing machine. No. 949,088; Feb. 15; Sp. p. 2755; Gaz. vol. 151; p. 489.
Pennington, John S., New Washington, Ohio. Photographer's stand. No. 961,641; June 14; Sp. p. 2895; Gaz. vol. 155; p. 501.
Pennsylvania Engineering Works. (See Furst, John K., assignor.)
Pennsylvania Glass Globe Light Company of Philadelphia, The. (See Shaw, Arthur E., assignor.)
Pennsylvania Specialty Manufacturing Co. (See Sackman, William H., assignor.)
Pennsylvania Steel Company, The. (See Carney and Gadd, assignors.)
Pennsylvania Steel Company, The. (See Cuenot, Paul A., assignor.)
Pennsylvania Steel Company, The. (See Lescure, Edward H., assignor.)
Pennsylvania Steel Company, The. (See Reynders, John V., assignor.)
Pennsylvania Steel Company, The. (See Sellers, Albert J., assignor.)
Penny, Charles A., Grand Junction, Colo. Weather-strip. No. 974,706; Nov. 1; Sp. p. 1433; Gaz. vol. 160; p. 220.
Penovi, Alfred, and H. A. Breene, Port Chester, N. Y. Washboard. No. 962,046; June 21; Sp. p. 3760; Gaz. vol. 155; p. 660.
Penrod, Robert P., Pitcairn, Pa. Chisel-bar. No. 971,924; Oct. 4; Sp. p. 888; Gaz. vol. 159; p. 153.
Penrose, John. (See Ploeger and Penrose.)
Pensoneau, Arthur. (See Seibel, Albert C. E., assignor.)
Pentecost, Jackson W., Nashville, Tenn. Surface condenser. No. 969,719; Sept. 6; Sp. p. 1201; Gaz. vol. 158; p. 194.
Pentecost, William C. (See Savery, Robert E., assignor.)
Penton, Le Roy B. (See Coleman, Samuel H., assignor.)
Penton, Leroy B., Villisca, Iowa. Surface-cultivating shovel. No. 948,522; Feb. 8; Sp. p. 1568; Gaz. vol. 151; p. 276.
Peoria Lawn Mower Grinder Co. (See Warner, Albert C., assignor.)
Peppard, Orin, Delta, Ohio, assignor to The Helvetia Milk Condensing Company. Agitator. No. 953,760; Apr. 5; Sp. p. 157; Gaz. vol. 153; p. 29.
Pepper, Alfred. (See Fowler, Benstead, and Pepper.)
Pepper, John, *et al.* (See Hill, Rozier C., assignor.)
Pepperling, William, Two Harbors, Minn. Sewing-machine. No. 975,155; Nov. 8; Sp. p. 2435; Gaz. vol. 160; p. 395.
Perazio, Valentine S., New York, N. Y. Pipe-coupling. No. 964,310; July 12; Sp. p. 2783; Gaz. vol. 156; p. 459.
Percival, Leonard P., Tacoma, Wash., assignor to Alarm Lock Company. Lock. No. 978,931; Dec. 20; Sp. p. 3241; Gaz. vol. 161; p. 575.
Percy, Earl N., San Francisco, Cal. Oil-gas apparatus. No. 951,512; Mar. 8; Sp. p. 2137; Gaz. vol. 152; p. 370.
Perdrisat, Charles, Territet, Switzerland, assignor to J. Jaccard, New York, N. Y. Coin-operated apparatus. No. 968,075; Aug. 23; Sp. p. 4763; Gaz. vol. 157; p. 829.
Pereboom, Theodore, C., Ireton, Iowa. Watering-trough. No. 958,528; May 17; Sp. p. 4616; Gaz. vol. 154; p. 758.
Perego, Joseph V., Roganville, Tex. Swinging gate. No. 952,211; Mar. 15; Sp. p. 3524; Gaz. vol. 152; p. 634.
Perell, Meyer, New York, N. Y. Umbrella or parasol. No. 965,652; July 26; Sp. p. 5748; Gaz. vol. 156; p. 978.
Perew, Louis P., and J. A. Dischinger, North Tonawanda, N. Y., assignors of one-half to C. A. Thomas, Cleveland, Ohio, and one-half to J. G. Baer, Buffalo, N. Y. Advertising device. No. 949,287; Feb. 15; Sp. p. 3155; Gaz. vol. 151; p. 556.
Perez, Miguel, Chicago, Ill. Non-refillable bottle. No. 956,597; May 3; Sp. p. 194; Gaz. vol. 154; p. 33.
Perez, Waldo F., Tampa, Fla. Churn. No. 967,232; Aug. 16; Sp. p. 3010; Gaz. vol. 157; p. 520.
"Perfect" A. G. für Maschinenbau Basel at Basle. (See Wenk, Wilhelm, assignor.)
Perfect, Charles A., Sunbury, Ohio. Storage-structure wall. No. 967,426; Aug. 16; Sp. p. 3411; Gaz. vol. 157; p. 588.
Perfect Foot-Arch Supporter Co. (See Schumacher, Frederick C., assignor.)
Perfect Screen Hanger Company. (See Warner, Fredrick J., assignor.)
Perfect Simplex Combustion Company, The. (See McArdle, William, assignor.)
Perfect Sliding Door Company, The. (See Schuyler, Daniel, assignor.)
Perfect Sliding Door Company, The. (See Schuyler and Laughlin, assignors.)
Perfection Steel Studding Co., The. (See Makowski, John F., assignor.)
Perfectionnements aux Lampes à Filaments Metalliques, Société Anonyme. (See Triquet, Paul G., assignor.)
Perkett, Charles H., Willsboro, N. Y. Cow-tail holder. No. 972,021; Oct. 4; Sp. p. 1122; Gaz. vol. 159; p. 188.
Perkins, Albert J. (See Nayer and Perkins.)
Perkins, Charles E., San Francisco, Cal. Display-hanger for curtains and the like. No. 962,855; June 28; Sp. p. 5510; Gaz. vol. 155; p. 964.
Perkins, Charles G., assignor to The Arrow Electric Company, Hartford, Conn. Movable contact for electric switches. No. 946,685; Jan. 18; Sp. p. 3744; Gaz. vol. 150; p. 625.
Perkins, Charles M., Grimes, Okla. Shoe-fastening. No. 965,930; Aug. 2; Sp. p. 171; Gaz. vol. 157; p. 29.
Perkins Electric Switch Manufacturing Company, The. (See Anderson, Carl E., assignor.)
Perkins Electric Switch Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
Perkins Electric Switch Manufacturing Company, The. (See Thomas, George B., assignor.)
Perkins Electric Switch Mfg. Company, The. (See Seeley, Frank E., assignor.)
Perkins Electric Switch Mfg. Company, The. (See Wallbillich, Anthony F., assignor.)
Perkins, Frank C., assignor of one-half to F. E. Finsterbach, Buffalo, N. Y. Electric heater and cooking apparatus. No. 952,941; Mar. 22; Sp. p. 5072; Gaz. vol. 152; p. 911.
Perkins, Hiram A., assignor to American Wood Working Machinery Co., Rochester, N. Y. Journal-box. No. 949,910; Feb. 22; Sp. p. 4493; Gaz. vol. 151; p. 802.
Perkins, Hiram A., assignor to American Wood Working Machinery Co., Rochester, N. Y. Belt-tightener. No. 961,005; June 7; Sp. p. 1542; Gaz. vol. 155; p. 258.
Perkins, Hiram A., assignor to American Wood Working Machinery Co., Rochester, N. Y. Stock-scraper for wood-planing machines. No. 963,246; July 5; Sp. p. 568; Gaz. vol. 156; p. 78.
Perkins, Hiram A., assignor to American Wood Working Machinery Co., Rochester, N. Y. Belt shifter and tightener. No. 964,051; July 12; Sp. p. 2262; Gaz. vol. 156; p. 372.
Perkins, James D. (See Burke and Perkins.)
Perkins, John B., Revere, Mass. Automatic valve. No. 974,424; Nov. 1; Sp. p. 777; Gaz. vol. 160; p. 117.
Perkins, John L., Holyoke, Mass. Calendering-roll. (Reissue.) No. 13,127; July 5; Sp. p. 1570; Gaz. vol. 156; p. 242.
Perkins, John L., Holyoke, Mass. Calendering-roll. (Reissue.) No. 13,128; July 5; Sp. p. 1572; Gaz. vol. 156; p. 243.
Perkins, John L., J. O. Stanley, C. W. Putnam, and J. Montgomery, assignors to Stoneybrook Paper Company, Holyoke, Mass. Paper-pulp-refining apparatus. No. 979,885; Dec. 27; Sp. p. 5344; Gaz. vol. 161; p. 924.
Perkins, John R., Jackson, Miss. Nut-lock. No. 952,942; Mar. 22; Sp. p. 5076; Gaz. vol. 152; p. 912.
Perkins, Louis J., Lewiston, Idaho. Pneumatic vehicle-gear. No. 960,579; June 7; Sp. p. 698; Gaz. vol. 155; p. 115.
Perkins Sintering Company. (See Perkins and Requa, assignors.)
Perkins, Sydney B., assignor of one-half to C. Weber, Cleveland, Ohio. Electrical connector. No. 947,754; Jan. 25; Sp. p. 6072; Gaz. vol. 150; p. 1013.
Perkins, Wallace P., Willis, Tex. Window-sash. No. 954,003; Apr. 5; Sp. p. 635; Gaz. vol. 153; p. 113.
Perkins, Walter G., Smelter, Nev., and M. L. Requa, assignors to Perkins Sintering Company, San Francisco, Cal. Process of and apparatus for treating ores. No. 951,198; Mar. 8; Sp. p. 1478; Gaz. vol. 152; p. 268.
Perkins, Walter G., London, England, and M. L. Requa, assignors to Perkins Sintering Company, San Francisco, Cal. Apparatus for treating ores. No. 951,199; Mar. 8; Sp. p. 1482; Gaz. vol. 152; p. 268.
Perkins, Walter H., Cheshire, assignor to The Waterbury Mfg. Co., Waterbury, Conn. Hose-nozzle. No. 945,410; Jan. 4; Sp. p. 882; Gaz. vol. 150; p. 137.
Perkins, Walter H., assignor to The Waterbury Mfg. Co., Waterbury, Conn Powder-box. No. 947,934; Feb. 1; Sp. p. 325; Gaz. vol. 151; p. 53.
Perkins, Walter H., Cheshire, Conn., assignor to The Waterbury Mfg. Co., Waterbury, Conn. Incandescent-lamp socket. No. 949,363; Feb. 15; Sp. p. 3326; Gaz. vol. 151; p. 583.
Perkins, Walter H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Plumber's fitting. No. 965,008; July 19; Sp. p. 4363; Gaz. vol. 156; p. 727.
Perkins, Walter H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Powder-box. No. 969,398; Sept. 6; Sp. p. 531; Gaz. vol. 158; p. 84.
Perkins, Walter H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Shade-holder. No. 973,876; Oct. 25; Sp. p. 5169; Gaz. vol. 159; p. 898.
Perkins, Walter H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Shade-holder. No. 979,793; Dec. 27; Sp. p. 5154; Gaz. vol. 161; p. 894.
Perkins, William E., assignor of forty-nine one-hundredths to H. E. Garlock, Florence, Colo. Marking-gage. No. 948,523; Feb. 8; Sp. p. 1569; Gaz. vol. 151; p. 276.

Alphabetical list of patentees—Continued.

Perkins, William G., Brooksville, Fla. Combined gage and cutter mechanism. No. 966,592; Aug. 9; Sp. p. 1633; Gaz. vol. 157; p. 278.
Perkins, William H., Ottawa, Ontario, Canada. Furnace. No. 958,763; May 24; Sp. p. 5091; Gaz. vol. 154; p. 860.
Perks, George W. (See Baker and Perks.)
Perl, Albert H. F., London, England. Projection apparatus. No. 962,664; June 28; Sp. p. 5127; Gaz. vol. 155; p. 896.
Perl, Albert H. F., Theobald's Road, London, England. Receptacle. No. 974,593; Nov. 1; Sp. p. 1182; Gaz. vol. 160; p. 180.
Perlee, Ralph N., Long Island City, N. Y. Rosin-purifying apparatus. No. 961,254; June 14; Sp. p. 2054; Gaz. vol. 155; p. 370.
Perlewitz, George M., Chihuahua, Mexico. Internal-combustion engine. No. 975,275; Nov. 8; Sp. p. 2700; Gaz. vol. 160; p. 437.
Perley, John, Lynn, assignor to The Reece Button-Hole Machine Company, Boston, Mass. Reservoir for button-sewing machines, &c. No. 955,195; Apr. 19; Sp. p. 3227; Gaz. vol. 153; p. 579.
Perret, Léon, Perm, Russia. Revolving screen for washing, &c. No. 972,128; Oct. 4; Sp. p. 1329; Gaz. vol. 159; p. 224.
Perrie, John, Roseland, Ill. Lock-nut mechanism. No. 959,162; May 24; Sp. p. 5960; Gaz. vol. 154; p. 997.
Perrigo, Edwin B., Sioux City, Iowa, assignor to Armour & Company, Chicago, Ill. Animal-jaw puller. No. 962,782; June 28; Sp. p. 5373; Gaz. vol. 155; p. 939.
Perrigo, Orville L., assignor of one-half to Oshkosh Grass Matting Company, Oshkosh, Wis. Harvester. No. 960,392; June 7; Sp. p. 321; Gaz. vol. 155; p. 53.
Perrine, John B., Valparaiso, Ind., assignor, by mesne assignments, to Workman Manufacturing Company, Chicago, Ill. Self-indexing book. No. 960,693; June 7; Sp. p. 928; Gaz. vol. 155; p. 154.
Perrine, Junious M. (See Ferrell and Perrine.)
Perring, Ira O., Kalamazoo, Mich. Camera. No. 976,208; Nov. 22; Sp. p. 4666; Gaz. vol. 160; p. 804.
Perrins, Harry, Smethwick, England. Wheel for motor and other road vehicles. No. 975,453; Nov. 15; Sp. p. 3066; Gaz. vol. 160; p. 524.
Perritt, William J., Rogers, Ark. Gate. No. 964,545; July 19; Sp. p. 3305; Gaz. vol. 156; p. 566.
Perrott, Frank C., Beaver Falls, Pa. Window-shade adjuster. No. 950,953; Mar. 1; Sp. p. 1027; Gaz. vol. 152; p. 164.
Perrott, Frank C., assignor to Perrott Manufacturing Company, Beaver Falls, Pa. Cord-clamp. No. 950,952; Mar. 1; Sp. p. 1026; Gaz. vol. 152; p. 164.
Perrott Manufacturing Company. (See Perrott, Frank C., assignor.)
Perry, Alvy G., Coldwater, Miss. Plow. No. 946,461; Jan. 11; Sp. p. 3279; Gaz. vol. 150; p. 527.
Perry, Alvy G., Coldwater, Miss. Plowshare. No. 947,083; Jan. 18; Sp. p. 4605; Gaz. vol. 150; p. 760.
Perry, Charles F., Harlingen, assignor of one-half to W. F. Hutchinson, Olney, Tex. Buggy-shackle. No. 966,401; Aug. 2; Sp. p. 1149; Gaz. vol. 157; p. 186.
Perry, Charles H., Miami, Fla., assignor of one-half to G. D. Ash, Lansing, Mich. Spraying-nozzle. No. 961,006; June 7; Sp. p. 1544; Gaz. vol. 155; p. 258.
Perry, George A., Lodi, Wis. Piano-truck. No. 979,089; Dec. 20; Sp. p. 3607; Gaz. vol. 161; p. 629.
Perry, George E. (See Perry, Henry S., assignor.)
Perry, George W., Jr., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Motor-vehicle. No. 948,341; Feb. 8; Sp. p. 1164; Gaz. vol. 151; p. 214.
Perry, Henry S., assignor of one-half to G. E. Perry, Plattsmouth, Nebr. Fence-post. No. 962,523; June 28; Sp. p. 4828; Gaz. vol. 155; p. 849.
Perry, James A., Bidwell, Iowa. Telephone attachment. No. 961,157; June 14; Sp. p. 1847; Gaz. vol. 155; p. 335.
Perry, James A., Bidwell, Iowa. Train-order holder. No. 966,593; Aug. 9; Sp. p. 1634; Gaz. vol. 157; p. 279.
Perry, John M. (See Johnson, Perry, and McMahon.)
Perry, John R., assignor to Perry Pipe Company, Chicago, Ill. Pipe, cigar-holder, &c. No. 948,634; Feb. 8; Sp. p. 1812; Gaz. vol. 151; p. 312.
Perry, John R., assignor to Perry Pipe Company, Chicago, Ill. Tobacco-pipe. No. 948,635; Feb. 8; Sp. p. 1814; Gaz. vol. 151; p. 312.
Perry, John R., assignor to Perry Pipe Company, Chicago, Ill. Tobacco-pipe. No. 961,255; June 14; Sp. p. 2056; Gaz. vol. 155; p. 370.
Perry, Judson D., Montgomery, Ala. Milk-pail. No. 959,590; May 31; Sp. p. 6853; Gaz. vol. 154; p. 1166.
Perry Pipe Company. (See Perry, John R., assignor.)
Perry, Scott W., Versailles, Ill. Rotary steam-valve. No. 967,827; Aug. 16; Sp. p. 4218; Gaz. vol. 157; p. 721.
Perry, Sylvester G., Port Dalhousie, and C. F. Stapf, Welland, Ontario, Canada. Bow-anchor foot-plate and shipping apparatus therefor. No. 965,931; Aug. 2; Sp. p. 172; Gaz. vol. 157; p. 29.
Perry, Ward S., Chicago, Ill. Reflecting-lamp. No. 950,600; Mar. 1; Sp. p. 284; Gaz. vol. 152; p. 47.
Perry, William D. (See Melson, William R., assignor.)
Person, Carl E., Clinton, Ill. Signal-valve. No. 949,840; Feb. 22; Sp. p. 4309; Gaz. vol. 151; p. 776.
Person, Carl O., Banning, Cal. Cartridge. No. 955,680; Apr. 19; Sp. p. 4301; Gaz. vol. 153; p. 744.
Persons, Charles A., Worcester, Mass. Saddle. No. 959,591; May 31; Sp. p. 6854; Gaz. vol. 154; p. 1166.
Persons, James O., assignor to American Pipe Lining Corporation, Norfolk, Va. Apparatus for lining pipes. No. 952,545; Mar. 22; Sp. p. 4226; Gaz. vol. 152; p. 775.
Persoons, Alphonse. (See Persoons, Jules and A.)
Persoons, Jules and A., Thildonck, Belgium. Gearing. No. 946,985; Jan. 18; Sp. p. 4421; Gaz. vol. 150; p. 728.
Persoons, Jules and A., Childonck, near Louvain, Belgium. Liner for centrifugal separators. No. 969,399; Sept. 6; Sp. p. 532; Gaz. vol. 158; p. 85.
Persoons, Jules and A., Childonck, Belgium. Collecting-casing for cream-separators. No. 969,400; Sept. 6; Sp. p. 534; Gaz. vol. 158; p. 85.
Persson, John. (See Olson and Persson.)
Persson, Otto F., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Regulator for steam-generating apparatus. No. 974,181; Nov. 1; Sp. p. 161; Gaz. vol. 160; p. 29.
Pertuiset, Georges H., Geneva, Switzerland. Speed-regulating pulley for motor-cycles. No. 976,596; Nov. 22; Sp. p. 5559; Gaz. vol. 160; p. 939.
Perussina, Samuel P., Galveston, Tex. Ratchet-wrench. No. 950,675; Mar. 1; Sp. p. 451; Gaz. vol. 152; p. 73.
Pervilhac, Henry. (See Ratignier and Pervilhac.)
Pesce, Frank, Jersey City, N. J. Alarm apparatus. No. 952,710; Mar. 22; Sp. p. 4596; Gaz. vol. 152; p. 833.
Pessano, Antonio C. (See Pahlow, Frank C., assignor.)
Pestel, Arthur, Bayonne, N. J. Employee's time-recorder. No. 974,912; Nov. 8; Sp. p. 1883; Gaz. vol. 160; p. 311.
Pete, Sarah S., Chicago, Ill. Toy. No. 969,185; Sept. 6; Sp. p. 91; Gaz. vol. 158; p. 15.
Petecsola, George, Oakview, Colo. Spike. No. 960,694; June 7; Sp. p. 931; Gaz. vol. 155; p. 154.
Peteler, Adolph, New York, N. Y. Internal-combustion engine. No. 979,794; Dec. 27; Sp. p. 5155; Gaz. vol. 161; p. 894.
Peter, Hans H., Zürich, Switzerland. Cable-tramway. No. 946,732; Jan. 18; Sp. p. 3837; Gaz. vol. 150; p. 640.
Peterman, Harry A. and H. C., Philadelphia, Pa. Case for milk and other bottles. No. 950,863; Mar. 1; Sp. p. 853; Gaz. vol. 152; p. 136.
Peterman, Harry A. and H. C., Philadelphia, Pa. Bottle-carrying case. No. 978,825; Dec. 13; Sp. p. 3013; Gaz. vol. 161; p. 511.
Peterman, Herbert C. (See Peterman, Harry A. and H. C.)
Peterman, Jacob M., New Market, Iowa. Rein-holding attachment for vehicles. No. 951,220; Mar. 8; Sp. p. 1525; Gaz. vol. 152; p. 275.
Peterman, William, assignor of one-half to W. Wiesner, Beaver Falls, Pa. Trolley device. No. 965,740; July 26; Sp. p. 5922; Gaz. vol. 156; p. 1007.
Peters, Albert N., Galena, Mo. Apparatus for processing canned goods. No. 976,286; Nov. 22; Sp. p. 4879; Gaz. vol. 160; p. 833.
Peters, Anna H., Waverly, Mo. Stove cap or lid. No. 946,946; Jan. 18; Sp. p. 4348; Gaz. vol. 150; p. 714.
Peters, Archie R., Ochelata, Okla. Elevator for sucker-rods. No. 976,910; Nov. 29; Sp. p. 6227; Gaz. vol. 160; p. 1071.
Peters Cartridge Company, The. (See Muenzenmaier and See, assignors.)
Peters, Curtis H., Brown Station, N. Y. Mast-step for derricks. No. 965,741; July 26; Sp. p. 5923; Gaz. vol. 156; p. 1008.
Peters, Curtis H., H. Hart, and S. C. Stinecipher, Brown Station, N. Y. Derrick dumping device. No. 952,350; Mar. 15; Sp. p. 3805; Gaz. vol. 152; p. 681.
Peters, David, Jersey City, N. J. Micrometer. No. 946,268; Jan. 11; Sp. p. 2772; Gaz. vol. 150; p. 460.
Peters, David T. (See Sammons and Peters.)
Peters, Francis T., assignor of one-half to D. T. Whitesell, Terre Haute, Ind. Adjustable ladder-bracket. No. 960,580; June 7; Sp. p. 699; Gaz. vol. 155; p. 115.
Peters, Frederick, and W. Schmidt, assignors to Michigan Sales Company, Detroit, Mich. Coin-controlled vending-machine. No. 947,755; Jan. 25; Sp. p. 6073; Gaz. vol. 150; p. 1013.
Peters, George B., South Bellingham, Wash. Pocket article-holder. No. 968,972; Aug. 30; Sp. p. 6668; Gaz. vol. 157; p. 1161.
Peters, Gershom M., Cincinnati, Ohio. Blasting-cartridge. No. 969,186; Sept. 6; Sp. p. 93; Gaz. vol. 158; p. 15.
Peters, Gershom M., Cincinnati, and M. F. Lindsley, Kings Mills, Ohio. Safety-powder for blasting. No. 953,798; Apr. 5; Sp. p. 232; Gaz. vol. 153; p. 42.
Peters, Gershom M., Cincinnati, and M. F. Lindsley, Kings Mills, assignors to The King Powder Company, Cincinnati, Ohio. Explosive. No. 977,545; Dec. 6; Sp. p. 303; Gaz. vol. 161; p. 45.
Peters, Hans, *et al.* (See Driskell, Winfield S., assignor.)
Peters, Harry B., Saugerties, N. Y. Tool-driving attachment for automobiles. No. 964,311; July 12; Sp. p. 2785; Gaz. vol. 156; p. 459.
Peters, Hermann, Hamburg, Germany. Steam-turbine. No. 970,106; Sept. 13; Sp. p. 2069; Gaz. vol. 158; p. 352.

Peters, James F., Ligonier, Pa. Coke-oven door. No. 948,936; Feb. 8; Sp. p. 2422; Gaz. vol. 151; p. 413.
Peters, Jeremiah L., Allentown, Pa. Stopper-lock for bottles. No. 955,099; Apr. 12; Sp. p. 3024; Gaz. vol. 153; p. 513.
Peters, Joel T. (See Haislip, John P., assignor.)
Peters, John W., deceased, Camden, N. J.; R. A. Peters, administratrix. Roller-skate. No. 954,993; Apr. 12; Sp. p. 2829; Gaz. vol. 153; p. 480.
Peters, Joseph W., and D. I. Brown, Pittsburg, Pa. Briquet-machine. No. 970,546; Sept. 20; Sp. p. 2994; Gaz. vol. 158; p. 521.
Peters, Mathias, Benrath, near Dusseldorf, Germany. Manufacture of tubes. No. 948,961; Feb. 8; Sp. p. 2476; Gaz. vol. 151; p. 421.
Peters, Mathias, Benrath, near Dusseldorf, Germany. Rolling-mill for producing tubes. No. 954,880; Apr. 12; Sp. p. 2607; Gaz. vol. 153; p. 443.
Peters, Mathias, Benrath, near Dusseldorf, Germany. Rolling-mill for producing tubes. No. 970,263; Sept. 13; Sp. p. 2411; Gaz. vol. 158; p. 406.
Peters, Paul H., Hamburg, Germany. Planet-gearing. No. 964,180; July 12; Sp. p. 2517; Gaz. vol. 156; p. 414.
Peters, Peter W., Woodland, Wis. Tread-motor. No. 954,339; Apr. 5; Sp. p. 1372; Gaz. vol. 153; p. 227.
Peters, Rebecca A., administratrix. (See Peters, John W.)
Peters, Robert H., Buffalo, N. Y. Wrench. No. 961,894; June 21; Sp. p. 3441; Gaz. vol. 155; p. 609.
Peters, Robert H., Buffalo, N. Y. Ratchet-wrench. No. 978,395; Dec. 13; Sp. p. 2118; Gaz. vol. 161; p. 368.
Peters, Thomas J., Perrine, Fla. Cane-stripping mechanism. No. 957,441; May 10; Sp. p. 2030; Gaz. vol. 154; p. 352.
Peters, Ulrich A., Pittsburg, Pa. Sprinkler. No. 960,393; June 7; Sp. p. 323; Gaz. vol. 155; p. 53.
Peters, William, Congress, Ariz. Wire-cutter. No. 961,794; June 21; Sp. p. 3207; Gaz. vol. 155; p. 576.
Peters, William F., Waverly, N. Y. Flue-plug. No. 974,819; Nov. 8; Sp. p. 1676; Gaz. vol. 160; p. 281.
Petersen, Anker, Chelsea, Mass., assignor to The Petersen Circular Loom Company. Circular loom. No. 951,449; Mar. 8; Sp. p. 2005; Gaz. vol. 152; p. 349.
Petersen, Anker, Chelsea, assignor to The Petersen Circular Loom Company, Boston, Mass. Circular loom. No. 951,450; Mar. 8; Sp. p. 2011; Gaz. vol. 152; p. 349.
Petersen, Anker, Chelsea, assignor to The Petersen Circular Loom Company, Boston, Mass. Circular loom. No. 951,451; Mar. 8; Sp. p. 2018; Gaz. vol. 152; p. 350.
Petersen, Anker, Chelsea, assignor to The Petersen Circular Loom Company, Boston, Mass. Woven tubular fabric. No. 955,541; Apr. 19; Sp. p. 3970; Gaz. vol. 153; p. 697.
Petersen Circular Loom Company, The. (See Petersen, Anker, assignor.)
Petersen, Cristian A., Laconia, N. H. Shock-absorber for automobiles. No. 970,390; Sept. 13; Sp. p. 2648; Gaz. vol. 158; p. 447.
Petersen, Frederick C. (See Nielsen and Petersen.)
Petersen, Hans P., Sioux City, Iowa. Pump. No. 954,994; Apr. 12; Sp. p. 2830; Gaz. vol. 153; p. 480.
Petersen, Hans P., Sioux City, Iowa. Spring-wheel. No. 976,686; Nov. 22; Sp. p. 5723; Gaz. vol. 160; p. 969.
Petersen, Henry, Chicago, Ill. Window-screen. No. 969,977; Sept. 13; Sp. p. 1805; Gaz. vol. 158; p. 307.
Petersen, Herluf A. F., assignor to J. H. W. Petersen, Chicago, Ill. Removing scale from pipe. No. 962,462; June 28; Sp. p. 4694; Gaz. vol. 155; p. 828.
Petersen, J. H. W. (See Petersen, Herluf A. F., assignor.)
Petersen, Jens P., Cape Girardeau, Mo. Pole. No. 978,932; Dec. 20; Sp. p. 3244; Gaz. vol. 161; p. 575.
Petersen, John N., and W. F. Pettit, New Orleans, La. Carbureter. No. 976,911; Nov. 29; Sp. p. 6229; Gaz. vol. 160; p. 1072.
Petersen, Louis C., Des Moines, Iowa. Sash-lock. No. 970,350; Sept. 13; Sp. p. 2569; Gaz. vol. 158; p. 433.
Petersen, Marius E. (See Hansen and Petersen.)
Petersen Oven Company, The. (See Petersen, William F., assignor.)
Petersen, Peter H., Lead, S. D. Switch-throwing device. No. 969,653; Sept. 6; Sp. p. 1069; Gaz. vol. 158; p. 171.
Petersen, Robert J., Birmingham, England. Single-trigger double-barrel sporting-gun. No. 967,969; Aug. 23; Sp. p. 4509; Gaz. vol. 157; p. 793.
Petersen, Thomas, Hartford, Conn. Line-holder. No. 958,168; May 17; Sp. p. 3749; Gaz. vol. 154; p. 634.
Petersen, William A., Montreal, Quebec, Canada. Tool-holder. No. 971,556; Oct. 4; Sp. p. 101; Gaz. vol. 159; p. 19.
Petersen, William F., assignor to The Petersen Oven Company, Chicago, Ill. Baker's oven. No. 975,889; Nov. 15; Sp. p. 3988; Gaz. vol. 160; p. 672.
Peterson, Aaron E. and G. B., Lanyon, Iowa. Adjustable shelf-bracket. No. 945,138; Jan. 4; Sp. p. 263; Gaz. vol. 150; p. 46.
Peterson, Albert C., St. Louis, Mo., assignor to H. W. Selle, Chicago, Ill. Packing-pad machine. No. 951,840; Mar. 15; Sp. p. 2804; Gaz. vol. 152; p. 512.
Peterson, Albert C., St. Louis, Mo., assignor to H. W. Selle, Chicago, Ill. Packing-pad-forming machine. No. 951,841; Mar. 15; Sp. p. 2808; Gaz. vol. 152; p. 512.
Peterson, Alfred, Waresboro, Ga. Book-holder. No. 951,334; Mar. 8; Sp. p. 1770; Gaz. vol. 152; p. 311.
Peterson, Alfred J., Galesburg, Ill. Self-inking hand-stamp. No. 973,556; Oct. 25; Sp. p. 4498; Gaz. vol. 159; p. 785.
Peterson, Axel W., Jamison, assignor of one-half to H. Peterson, Fresno, Cal. Bench-vise. No. 969,401; Sept. 6; Sp. p. 535; Gaz. vol. 158; p. 85.
Peterson, Burt A., assignor, by mesne assignments, to H. D. Colman, L. L. Miller, and H. A. Severson, Rockford, Ill. Knotter. No. 959,592; May 31; Sp. p. 6856; Gaz. vol. 154; p. 1166.
Peterson, Carl E., assignor to H. M. Serkland, St. James, Minn. Lawn-mower. No. 945,191; Jan. 4; Sp. p. 377; Gaz. vol. 150; p. 63.
Peterson, Carl G., West Duluth, Minn. Music-holder. No. 977,397; Nov. 29; Sp. p. 7336; Gaz. vol. 160; p. 1240.
Peterson, Carl O., Jamestown, N. Y. Planer-knife sharpener. No. 962,047; June 21; Sp. p. 3762; Gaz. vol. 155; p. 660.
Peterson, Charles F., Schenectady, N. Y., assignor to General Electric Company. Insulating material. No. 973,557; Oct. 25; Sp. p. 4500; Gaz. vol. 159; p. 785.
Peterson, Charles H., Rumford Falls, Me. Combination square and rule. No. 954,460; Apr. 12; Sp. p. 1627; Gaz. vol. 153; p. 296.
Peterson, E. E., *et al.* (See Glymps, Frank W., assignor.)
Peterson, Emanuel, Wakefield, Mass. Pianissimo device. No. 964,880; July 19; Sp. p. 4109; Gaz. vol. 156; p. 684.
Peterson, Emmett L., Willacoochee, Ga. Gin-roller. No. 945,411; Jan. 4; Sp. p. 883; Gaz. vol. 150; p. 137.
Peterson, Eric, Newburgh, N. Y. Faucet. No. 950,026; Feb. 22; Sp. p. 4800; Gaz. vol. 151; p. 844.
Peterson, Fay E., *et al.* (See Cottrell, Thomas M., assignor.)
Peterson, Fredolf J., Salem, Ohio. Credit-register. No. 967,549; Aug. 16; Sp. p. 3657; Gaz. vol. 157; p. 629.
Peterson, Fritz, Rockford, Ill. Miter-box. No. 968,973; Aug. 30; Sp. p. 6669; Gaz. vol. 157; p. 1162.
Peterson, Fritz, assignor to Star Miter Machine Company, Rockford, Ill. Miter-box. No. 976,097; Nov. 15; Sp. p. 4396; Gaz. vol. 160; p. 745.
Peterson, George, New Orleans, La. Sliding door. No. 946,462; Jan. 11; Sp. p. 3281; Gaz. vol. 150; p. 527.
Peterson, George, New Orleans, La., assignor of one-third to H. Robbins. Label-holder. No. 947,026; Jan. 18; Sp. p. 4511; Gaz. vol. 150; p. 743.
Peterson, Gus A., and J. L. Lackett, Clarksburg, W. Va. Gas and air mixer for burners. No. 959,593; May 31; Sp. p. 6859; Gaz. vol. 154; p. 1167.
Peterson, Gust B. (See Peterson, Aaron E. and G. B.)
Peterson, Gustaf. (See Peterson, Olof and G.)
Peterson, Guy J., Cyanide, assignor of one-half to P. N. Hanson, Deadwood, S. D. Pulverizer. No. 976,831; Nov. 22; Sp. p. 6027; Gaz. vol. 160; p. 1018.
Peterson, Hans, Mora, Minn. Potato-grader. No. 962,048; June 21; Sp. p. 3764; Gaz. vol. 155; p. 660.
Peterson, Harry, Brooklyn, N. Y. Wagon. No. 952,943; Mar. 22; Sp. p. 5077; Gaz. vol. 152; p. 912.
Peterson, Herman. (See Peterson, Axel W., assignor.)
Peterson, Hjalmar, Falun, Wis. Automatic damper control. No. 956,542; May 3; Sp. p. 80; Gaz. vol. 154; p. 14.
Peterson, Hjalmar T., Falun, Wis. Tie and lumber hook. No. 945,864; Jan. 11; Sp. p. 1919; Gaz. vol. 150; p. 319.
Peterson, James, and J. G. Callaway, Price, Utah. Chair. No. 958,000; May 17; Sp. p. 3264; Gaz. vol. 154; p. 572.
Peterson, James, and J. G. Callaway, Price, Utah. Folding umbrella. No. 959,962; May 31; Sp. p. 7663; Gaz. vol. 154; p. 1292.
Peterson, Johan A. (See Rahm, Arvid H., assignor.)
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 947,123; Jan. 18; Sp. p. 4674; Gaz. vol. 150; p. 771.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Push-switch. No. 954,461; Apr. 12; Sp. p. 1630; Gaz. vol. 153; p. 296.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 954,462; Apr. 12; Sp. p. 1632; Gaz. vol. 153; p. 296.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electric-switch handle. No. 954,463; Apr. 12; Sp. p. 1633; Gaz. vol. 153; p. 297.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electrical-switch receptacle. No. 956,161; Apr. 26; Sp. p. 5359; Gaz. vol. 153; p. 941.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 959,594; May 31; Sp. p. 6860; Gaz. vol. 154; p. 1167.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 966,239; Aug. 2; Sp. p. 849; Gaz. vol. 157; p. 135.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 966,240; Aug. 2; Sp. p. 850; Gaz. vol. 157; p. 135.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Door-switch operator. No. 966,702; Aug. 9; Sp. p. 1841; Gaz. vol. 157; p. 315.

Alphabetical list of patentees—Continued.

Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Door-switch. No. 970,264; Sept. 13; Sp. p. 2413; Gaz. vol. 158; p. 406.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Snap-switch handle attachment. No. 978,933; Dec. 20; Sp. p. 3245; Gaz. vol. 161; p. 576.
Peterson, Johann G., assignor, by mesne assignments, to Marshall Electric Company, Hartford, Conn. Electric-lamp socket. No. 952,276; Mar. 15; Sp. p. 3664; Gaz. vol. 152; p. 656.
Peterson, John, assignor to Dibelka & Breska, Chicago, Ill. Carbureter. No. 963,804; July 12; Sp. p. 1741; Gaz. vol. 156; p. 288.
Peterson, John F., *et al.* (See Brown, Edward N., assignor.)
Peterson, Jonathan, Brooklyn, N. Y. Throttle. No. 965,322; July 26; Sp. p. 5014; Gaz. vol. 156; p. 863.
Peterson, Jonathan, Brooklyn, N. Y. Carbureter. No. 979,555; Dec. 27; Sp. p. 4616; Gaz. vol. 161; p. 812.
Peterson, Julius. (See Emerson and Peterson.)
Peterson, Lars C., assignor of one-half to F. E. Anderson, Osage City, Kans. Manure-scraper. No. 973,967; Oct. 25; Sp. p. 5342; Gaz. vol. 159; p. 929.
Peterson, Louis A., Hannaford, N. D. Coupling for air-brake pipes. No. 957,087; May 3; Sp. p. 1264; Gaz. vol. 154; p. 201.
Peterson, Nels, Ostrander, Minn. Knife grinder and buffer. No. 973,457; Oct. 18; Sp. p. 4279; Gaz. vol. 159; p. 729.
Peterson, Nels, assignor to Murphy Did It Company, Omaha, Nebr. Trolley-retriever. No. 977,398; Nov. 29; Sp. p. 7337; Gaz. vol. 160; p. 1241.
Peterson, Nils, assignor of one-third to C. L. Thompson, Moscow, Idaho. Antifreezing-closet. No. 956,729; May 3; Sp. p. 494; Gaz. vol. 154; p. 79.
Peterson, Octave W., Omaha, Nebr. Acetylene-gas generator. No. 945,588; Jan. 4; Sp. p. 1249; Gaz. vol. 150; p. 194.
Peterson, Octave W., Chicago, Ill. Acetylene-gas generator. No. 957,369; May 10; Sp. p. 1883; Gaz. vol. 154; p. 328.
Peterson, Olof and G., Alameda, Cal. Scraper. No. 958,889; May 24; Sp. p. 5410; Gaz. vol. 154; p. 907.
Peterson, Oscar F., Keokuk, Iowa. Jar-holder. No. 945,589; Jan. 4; Sp. p. 1254; Gaz. vol. 150; p. 195.
Peterson, Per A., New York, N. Y. Combination-tool. No. 960,193; May 31; Sp. p. 8153; Gaz. vol. 154; p. 1371.
Peterson, Peter, San Francisco, Cal. Internal-combustion engine. No. 978,058; Dec. 6; Sp. p. 1368; Gaz. vol. 161; p. 220.
Peterson, Peter L., Kelvin, N. D. Grapple. No. 956,995; May 3; Sp. p. 1082; Gaz. vol. 154; p. 169.
Peterson, Peter R. (See Cox and Peterson.)
Peterson, Peter R. (See Yates and Peterson.)
Peterson, Raford W., and A. Schelling, Santa Rosa, Cal.; said Schelling assignor to said Peterson. Transmission and steering mechanism for traction-engines. No. 971,471; Sept. 27; Sp. p. 4901; Gaz. vol. 158; p. 858.
Peterson, Silas P., Princeton, Ill. Combination-tool. No. 946,519; Jan. 11; Sp. p. 3410; Gaz. vol. 150; p. 546.
Peterson, Snively S., San Francisco, Cal. Life-saving attachment for submarines. No. 974,516; Nov. 1; Sp. p. 1019; Gaz. vol. 160; p. 151.
Peterson, Svante, Boston, Mass. Heel for boots and shoes. No. 955,100; Apr. 12; Sp. p. 3027; Gaz. vol. 153; p. 513.
Peterson, Theodore A., Winton, Minn. Foot-guard for railway-switches, &c. No. 965,653; July 26; Sp. p. 5750; Gaz. vol. 156; p. 978.
Peterson, Theodore R., Ray, N. D. Snap-hook. No. 967,664; Aug. 16; Sp. p. 3886; Gaz. vol. 157; p. 667.
Peterson, Victor, Downers Grove, Ill. Making multicolor prints. No. 962,718; June 28; Sp. p. 5249; Gaz. vol. 155; p. 916.
Peterson, Victor E., Denver, Colo. Acetylene-gas generator. No. 976,135; Nov. 15; Sp. p. 4488; Gaz. vol. 160; p. 757.
Peterson, Walfred A., Belleville, N. J. Hinge. No. 967,550; Aug. 16; Sp. p. 3660; Gaz. vol. 157; p. 629.
Petersson, Albert, Odda, Norway. Charging electric-resistance furnaces. No. 971,782; Oct. 4; Sp. p. 569; Gaz. vol. 159; p. 99.
Petertyl, Anthony J., Traverse City, Mich. Fruit-picker. No. 971,925; Oct. 4; Sp. p. 889; Gaz. vol. 159; p. 153.
Petigor, Morris H., and J. Parker, New York, N. Y. Draft device. No. 966,353; Aug. 2; Sp. p. 1054; Gaz. vol. 157; p. 170.
Petit, Nelzire F., Charleston, S. C. Type-writing machine. No. 953,489; Mar. 29; Sp. p. 6264; Gaz. vol. 152; p. 1123.
Petitcollin, Gustave, Paris, France. Manufacture of pointed celluloid rods. No. 977,326; Nov. 29; Sp. p. 7143; Gaz. vol. 160; p. 1216.
Petitt, Morton C. (See Sherwig and Petitt.)
Petree, James E., Richmond, Mo. Lightning-arrester. No. 968,402; Aug. 23; Sp. p. 5462; Gaz. vol. 157; p. 941.
Petree, Walter G., Danbury, N. C. Buggy-shaft tug. No. 959,254; May 24; Sp. p. 6150; Gaz. vol. 154; p. 1028.
Petri, Gunther H., Boston, Mass. Mixing machinery. No. 957,088; May 3; Sp. p. 1268; Gaz. vol. 154; p. 201.
Petri, Gunther H., Boston, Mass. Forming-machine. No. 957,247; May 10; Sp. p. 1616; Gaz. vol. 154; p. 285.
Petri, Gunther H., Boston, Mass. Dough-shaping implement. No. 978,482; Dec. 13; Sp. p. 2304; Gaz. vol. 161; p. 397.
Petrie, Percy C., Simons, Cal. Lawn-mower. No. 980,121; Dec. 27; Sp. p. 5872; Gaz. vol. 161; p. 1003.
Petrie, Peter A., Moon Run, Pa. Cuspidor. No. 975,890; Nov. 15; Sp. p. 3990; Gaz. vol. 160; p. 673.
Petrie, Walter A. (See Stratton and Petrie.)
Petrikin, Charles L., and C. R. Dimm, assignors to Robinson Manufacturing Company, Muncy, Pa. Sealing-ring for grinding-mills. No. 972,470; Oct. 11; Sp. p. 2069; Gaz. vol. 159; p. 360.
Petro, John A., Lorain, Ohio. Animal-trap. No. 947,560; Jan. 25; Sp. p. 5705; Gaz. vol. 150; p. 947.
Petro, John A., Lorain, Ohio. Faucet. No. 960,695; June 7; Sp. p. 932; Gaz. vol. 155; p. 154.
Petro, John A., Lorain, Ohio. Nose-bag. No. 963,805; July 12; Sp. p. 1743; Gaz. vol. 156; p. 289.
Petry, Jacob, Pittsburg, Pa. Dental plate. No. 963,172; July 5; Sp. p. 370; Gaz. vol. 156; p. 52.
Petsche, Bismarck W., Yonkers, N. Y. Separating pulp fibers from pigments, size, filling, and other impurities. No. 955,898; Apr. 26; Sp. p. 4799; Gaz. vol. 153; p. 849.
Petsche, Bismarck W., Yonkers, N. Y. Apparatus for separating pulp fibers from pigments, size, filler, and other impurities. No. 955,990; Apr. 26; Sp. p. 4983; Gaz. vol. 153; p. 881.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Condenser. No. 947,845; Feb. 1; Sp. p. 141; Gaz. vol. 151; p. 24.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine. No. 966,469; Aug. 9; Sp. p. 1320; Gaz. vol. 157; p. 235.
Petsche, Gustav B., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Water-cooled piston for gas-engines. No. 967,551; Aug. 16; Sp. p. 3661; Gaz. vol. 157; p. 630.
Petsche, Gustav B., assignor to The Southwark Foundry & Machine Company, Philadelphia, Pa. Reversing mechanism for steam-engines. No. 973,402; Oct. 11; Sp. p. 1919; Gaz. vol. 159; p. 337.
Pettee, James C., Cleveland, Ohio. Pin. No. 945,412; Jan. 4; Sp. p. 884; Gaz. vol. 150; p. 137.
Petter, Adolph J., Los Angeles, Cal. Surgical appliance. No. 971,783; Oct. 4; Sp. p. 571; Gaz. vol. 159; p. 100.
Petterson, Per O., Galesburg, Ill. Tool with removable handle. No. 965,742; July 26; Sp. p. 5924; Gaz. vol. 156; p. 1008.
Pettey, Richard M., Alexandria, Va. Word-counter for type-writers and similar machines. No. 972,226; Oct. 11; Sp. p. 1575; Gaz. vol. 159; p. 276.
Pettibone, Mulliken & Company. (See Strom, Axel A., assignor.)
Pettibone, Mulliken & Company. (See Strom, Eugene N., assignor.)
Pettigrew, Charles H., assignor to Duplex Printing Press Company, Battle Creek, Mich. Folder. No. 953,286; Mar. 29; Sp. p. 5822; Gaz. vol. 152; p. 1053.
Pettigrew, Herbert N., New Orleans, La. Concrete wall. No. 954,690; Apr. 12; Sp. p. 2134; Gaz. vol. 153; p. 374.
Pettit, George C. (See Kennedy and Pettit.)
Pettit, Hugh, Memphis, Tenn. Fiber-cleaner. No. 950,757; Mar. 1; Sp. p. 636; Gaz. vol. 152; p. 102.
Pettit, Jonathan E., assignor of one-half to W. W. Knighten, Los Angeles, Cal. Soldering-tool. No. 953,920; Apr. 5; Sp. p. 471; Gaz. vol. 153; p. 85.
Pettit, Morgan, and L. S. Roll, Connersville, Ind. Child's vehicle. No. 970,849; Sept. 20; Sp. p. 3674; Gaz. vol. 158; p. 628.
Pettit, William F. (See Petersen and Pettit.)
Pettit, Winfield S., West Cape May, N. J. Churn. No. 957,248; May 10; Sp. p. 1619; Gaz. vol. 154; p. 286.
Petty, Harry E., Neodesha, Kans. Stocking-supporter. No. 969,402; Sept. 6; Sp. p. 537; Gaz. vol. 158; p. 86.
Petzler, Louis, Emerick, N. Y. Appliance for training pea-vines and other climbing plants. No. 950,639; Mar. 1; Sp. p. 379; Gaz. vol. 152; p. 61.
Peuchen, Arthur G., *et al.* (See Stickle, Arthur W., assignor.)
Peugeot, Armand, T. Huber, and H. de Lostalot, Billancourt, France. Two-stroke cycle-motor. No. 961,315; June 14; Sp. p. 2212; Gaz. vol. 155; p. 392.
Peukert, Wilhelm, Brunswick, Germany. Spark-gap apparatus. No. 955,101; Apr. 12; Sp. p. 3028; Gaz. vol. 153; p. 514.
Peuser, Peter C., Scranton, Pa. Base-ball-game apparatus. No. 951,257; Mar. 8; Sp. p. 1602; Gaz. vol. 152; p. 286.
Pew, Howard. (See Green, William M., assignor.)
Peyton, John W., Washington, Ind. Towel-rack. No. 966,854; Aug. 9; Sp. p. 2221; Gaz. vol. 157; p. 365.
Pezzene, Peter, Coraopolis, Pa. Folding umbrella. No. 959,383; May 24; Sp. p. 6401; Gaz. vol. 154; p. 1070.
Pezzene, Peter, Coraopolis, Pa. Fan attachment for rocking-chairs. No. 959,384; May 24; Sp. p. 6403; Gaz. vol. 154; p. 1070.
Pfaffenbach, Rudolf, Leipzig, assignor to Adolf Bleichert & Company, Leipzig-Gohlis, Germany. Rope-railway. No. 959,595; May 31; Sp. p. 6861; Gaz. vol. 154; p. 1167.

Pfahler, Alfred E., assignor to Model Heating Company, Philadelphia, Pa. Flue-strip for boiler and other furnaces. No. 945,590; Jan. 4; Sp. p. 1255; Gaz. vol. 150; p. 195.
Pfahler, Christian G., Leipsic, Ohio. Mail-box. No. 953,435; Mar. 29; Sp. p. 6151; Gaz. vol. 152; p. 1104.
Pfannstiehl, Fred O. (See Danquard and Pfannstiehl.)
Pfanschmidt, Charles, assignor to Theo. A. Kochs Company, Chicago, Ill. Combined head-rest and server for barbers' chairs. No. 968,403; Aug. 23; Sp. p. 5463; Gaz. vol. 157; p. 942.
Pfanschmidt, Charles, and A. Schwarzkopf, assignors to Theo. A. Kochs Co., Chicago, Ill. Barber's chair. No. 968,404; Aug. 23; Sp. p. 5466; Gaz. vol. 157; p. 942.
Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Electrical Laboratory, North Chicago, Ill. Vibrator. No. 964,312; July 12; Sp. p. 2786; Gaz. vol. 156; p. 460.
Pfanstiehl Electrical Laboratory. (See Pfanstiehl, Carl A., assignor.)
Pfau, Arnold, assignor to Allis-Chalmers Company, Milwaukee, Wis. Water-wheel. No. 978,335; Dec. 13; Sp. p. 1994; Gaz. vol. 161; p. 347.
Pfaudler Company, The. (See Jones, Albert I., assignor.)
Pfautz, Daniel M., assignor to W. H. Tigerman, Philadelphia, Pa. Spring-motor-driven table-fan. No. 975,714; Nov. 15; Sp. p. 3638; Gaz. vol. 160; p. 612.
Pfautz, Daniel M., assignor to W. H. Tigerman, Philadelphia, Pa. Skate. No. 979,795; Dec. 27; Sp. p. 5163; Gaz. vol. 161; p. 895.
Pfefferkorn, William L., A. P. Schloerb, and A. H. Hammetter, Milwaukee, Wis. Contouring articles of wooden furniture. No. 969,298; Sept. 6; Sp. p. 308; Gaz. vol. 158; p. 50.
Pfeifer, Ferdinand A. (See Colthar and Pfeifer.)
Pfeifer, John, assignor to The Champion Chemical Company, Springfield, Ohio. Closure for grave-vaults. No. 946,863; Jan. 18; Sp. p. 4157; Gaz. vol. 150; p. 687
Pfeifer, John, assignor to The Champion Chemical Company, Springfield, Ohio. Casket-truck. No. 948,482; Feb. 8; Sp. p. 1478; Gaz. vol. 151; p. 262.
Pfeifer, Ronald J., Callicoon, N. Y. Bottle-washer. No. 950,302; Feb. 22; Sp. p. 5347; Gaz. vol. 151; p. 938.
Pfeifer, Willis, Simpson, Kans. Automatic lubricator. No. 960,696; June 7; Sp. p. 933; Gaz. vol. 155; p. 155.
Pfeiffer, Charles, Akron, Ohio. Chair. No. 965,932; Aug. 2; Sp. p. 175; Gaz. vol. 157; p. 30.
Pfeiffer, Jacob, *et al.* (See Greer, William E., assignor.)
Pfeiffer, William F., *et al.* (See Greer, William E., assignor.)
Pfeil, Grace, Chicago, Ill. Stove-board. No. 962,093; June 21; Sp. p. 3868; Gaz. vol. 155; p. 677.
Pfeil, Grace, Chicago, Ill. Stove-board. No. 962,094; June 21; Sp. p. 3868; Gaz. vol. 155; p. 677.
Pfiel, Josef E., Vienna, Austria-Hungary. Obtaining textile fibers. No. 972,403; Oct. 11; Sp. p. 1921; Gaz. vol. 159; p. 338.
Pfingst, Louis, deceased; M. B. Pfingst, Dorchester, Mass., executrix. Car-fender. No. 966,354; Aug. 2; Sp. p. 1056; Gaz. vol. 157; p. 170.
Pfingst, Martha B., executrix. (See Pfingst, Louis.)
Pfister, Charles, New York, N. Y. Nut-lock. No. 971,784; Oct. 4; Sp. p. 574; Gaz. vol. 159; p. 100.
Pfister, Frederic J., San Francisco, Cal. Attachment for headlights. No. 954,819; Apr. 12; Sp. p. 2462; Gaz. vol. 153; p. 420.
Pfister, Frederic J., San Francisco, Cal. Sign attachment for lamps. No. 954,820; Apr. 12; Sp. p. 2464; Gaz. vol. 153; p. 420.
Pfister, Louis F., assignor to S. T. Walkup, New York, N. Y. Apparatus for moving paper-rolls for printing-presses. No. 964,546; July 19; Sp. p. 3307; Gaz. vol. 156; p. 567.
Pfister, Louis F., Boston, Mass., assignor to S. T. Walkup, New York, N. Y. Means for supplying and feeding paper to printing-presses. No. 964,547; July 19; Sp. p. 3311; Gaz. vol. 156; p. 567.
Pfister, William, *et al.* (See Meyers, Frederick B., assignor.)
Pfizer, Gustavus A. (See Vallat, René, assignor.)
Pflager, Harry M. (See Howard and Pflager.)
Pflager, Harry M., St. Louis, Mo. Car construction. No. 979,030; Dec. 20; Sp. p. 3480; Gaz. vol. 161; p. 610.
Pflasterer, George S., Nashville, Tenn. Block-signal system. No. 979,556; Dec. 27; Sp. p. 4620; Gaz. vol. 161; p. 812.
Pfleagor, Orland G. (See Welch and Pfleagor.)
Pfleghardt, Lewis H., Fayette City, Pa. Brush. No. 971,306; Sept. 27; Sp. p. 4592; Gaz. vol. 158; p. 804.
Pfleiderer, Emil. (See Fryer and Pfleiderer.)
Pfleiderer, Walter, and W. W. Harris, Peterborough, England; said Harris assignor to said Pfleiderer. Refrigerating and ice-making apparatus. No. 953,972; Apr. 5; Sp. p. 565; Gaz. vol. 153; p. 102.
Pfleumatic (1910) Limited. (See Caldwell, Robert J., assignor.)
Pfleumer, Fritz. (See Caldwell and Pfleumer.)
Pflueger, Joseph E., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Artificial bait. No. 954,691; Apr. 12; Sp. p. 2136; Gaz. vol. 153; p. 374.
Pfluegner, Augustus, New York, N. Y. Antiskidding device. No. 969,116; Aug. 30; Sp. p. 6968; Gaz. vol. 157; p. 1212.
Pfluger, Frank X., Portland, Oreg. Barrel-hoop. No. 970,107; Sept. 13; Sp. p. 2070; Gaz. vol. 158; p. 352.
Pflugh, August T., Hoboken, N. J. Pipe-joint. No. 964,052; July 12; Sp. p. 2263; Gaz. vol. 156; p. 372.
Pfouts, Leroy S., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Machine for treating bottles. No. 963,247; July 5; Sp. p. 570; Gaz. vol. 156; p. 79.
Pfoutz, William H., *et al.* (See Isenberger, Jacob N., assignor.)
Pfrenzinger, John, Pittsburg, Pa. Table. No. 957,089; May 3; Sp. p. 1270; Gaz. vol. 154; p. 201.
Pfrunder, Xaver. (See Steinmann and Pfrunder.)
Pfund, Richard, New York, N. Y. Aerial for the transmission and reception of electromagnetic wave energy. No. 945,475; Jan. 4; Sp. p. 1006; Gaz. vol. 150; p. 157.
Pfunder, Emil L., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 972,022; Oct. 4; Sp. p. 1124; Gaz. vol. 159; p. 188.
Phail, George A., and C. Swanson, New York, N. Y. Locking-clamp for extra automobile-tires. No. 967,047; Aug. 9; Sp. p. 2627; Gaz. vol. 157; p. 430.
"Phateco" Gesellschaft mit beschränkter Haftung. (See Nicolai, Ludwig J. F., assignor.)
Pheils, John W., Toledo, Ohio. Ventilating-register. No. 955,991; Apr. 26; Sp. p. 4985; Gaz. vol. 153; p. 881.
Pheils, John W., Toledo, Ohio. Door-lock. No. 956,162; Apr. 26; Sp. p. 5361; Gaz. vol. 153; p. 942.
Phelan, John M., Jackson, Mich., assignor to Reinforced Concrete Pipe Company. Reinforced-concrete pipe. No. 967,427; Aug. 16; Sp. p. 3412; Gaz. vol. 157; p. 588.
Phelan, Merton D., assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Work-support for metallic-fastening machines. No. 945,342; Jan. 4; Sp. p. 736; Gaz. vol. 150; p. 113.
Phelan, Merton D., assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Portable power-tacker. No. 958,002; May 17; Sp. p. 3273; Gaz. vol. 154; p. 573.
Phelan, Merton D., assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Machine for breasting the heels of boots and shoes. No. 958,005; May 17; Sp. p. 3287; Gaz. vol. 154; p. 575.
Phelan, Merton D., Dorchester, assignor to T. G. Plant, Boston, Mass. Heel-shaver. No. 958,006; May 17; Sp. p. 3300; Gaz. vol. 154; p. 575.
Phelan, Merton D., Boston, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Heel-compressor. No. 958,001; May 17; Sp. p. 3267; Gaz. vol. 154; p. 573.
Phelan, Merton D., Boston, Mass., assignor, by mesne assignments, to Manufacturers Machine Company. Montclair, N. J. Metallic-fastening machine. No. 958,003; May 17; Sp. p. 3278; Gaz. vol. 154; p. 574.
Phelan, Merton D., Boston, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Starting and stopping mechanism. No. 958,004; May 17; Sp. p. 3282; Gaz. vol. 154; p. 574.
Phelps, Bennoni, Hawarden, Iowa. Picture-exhibitor. No. 970,947; Sept. 20; Sp. p. 3853; Gaz. vol. 158; p. 658.
Phelps, Croly V. (See Duff, Phelps, and Pitts.)
Phelps, Erastus R., Chicago, Ill., assignor to Gray Lithograph Company, New York, N. Y. Display device. No. 951,773; Mar. 8; Sp. p. 2657; Gaz. vol. 152; p. 459.
Phelps, Frank, Little Rock, Ark. Steam-tramper. No. 945,413; Jan. 4; Sp. p. 885; Gaz. vol. 150; p. 138.
Phelps, Frank, Little Rock, Ark. Cotton-folder. No. 955,542; Apr. 19; Sp. p. 3972; Gaz. vol. 153; p. 697.
Phelps, Frank, Little Rock, Ark. Hydraulic press. No. 975,994; Nov. 15; Sp. p. 4182; Gaz. vol. 160; p. 709.
Phelps, Frederick A., Newark, N. J. Machine for grinding the teeth of gear-wheels. No. 946,153; Jan. 11; Sp. p. 2511; Gaz. vol. 150; p. 419.
Phelps, Isaac K., New Haven, Conn. Obtaining olefin or saturated acids. No. 974,182; Nov. 1; Sp. p. 164; Gaz. vol. 160; p. 29.
Phelps, J. Wiley, administrator. (See Phelps, William J.)
Phelps, James C., Springfield, Mass. Plunger-packing for elevators. No. 962,585; June 28; Sp. p. 4970; Gaz. vol. 155; p. 870.
Phelps, James W., Detroit, Mich. Electric sad-iron. No. 966,703; Aug. 9; Sp. p. 1842; Gaz. vol. 157; p. 315.
Phelps, James W., Detroit, Mich. Plug for electrical conductors. No. 978,199; Dec. 13; Sp. p. 1700; Gaz. vol. 161; p. 299.
Phelps, John H. (See Bowie and Phelps.)
Phelps, Spencer H. (See Rieske, Brennan, Phelps, and Beeman.)
Phelps, Walter J., Baltimore, Md. Detinning tin-scrap. No. 952,351; Mar. 15; Sp. p. 3807; Gaz. vol. 152; p. 681.
Phelps, Walter J., Baltimore, Md. Means for applying solder rings to can-caps. No. 959,163; May 24; Sp. p. 5962; Gaz. vol. 154; p. 998.
Phelps, Walter J., Baltimore, Md., assignor to American Can Company, New York, N. Y. Means for soldering end seams of cans. No. 946,733; Jan. 18; Sp. p. 3840; Gaz. vol. 150; p. 641.

Alphabetical list of patentees—Continued.

Phelps, Walter J., Baltimore, Md., assignor to American Can Company, New York, N. Y. Means for soldering the end seams of cans. No. 947,935; Feb. 1; Sp. p. 326; Gaz. vol. 151; p. 54.

Phelps, Walter J., Baltimore, Md., assignor to American Can Company, New York, N. Y. Mechanism for soldering the end seams of cans. No. 949,330; Feb. 15; Sp. p. 3245; Gaz. vol. 151; p. 571.

Phelps, William E., Colebrook, Ohio. Lightning-arrester. No. 968,405; Aug. 23; Sp. p. 5469; Gaz. vol. 157; p. 942.

Phelps, William J., deceased; J. W. Phelps, administrator, assignor to William C. Harris, Detroit, Mich. Electric incandescent lamp and connections therefor. No. 967,233; Aug. 16; Sp. p. 3011; Gaz. vol. 157; p. 521.

Phelps, William J., deceased; J. W. Phelps, administrator, assignor to The Electro Ad Company, Detroit, Mich. Automatically-flashing electric lamp. No. 976,287; Nov. 22; Sp. p. 4881; Gaz. vol. 160; p. 834.

Phesay, Charles F., New York, N. Y. Tweezers. No. 964,181; July 12; Sp. p. 2518; Gaz. vol. 156; p. 414.

Philadelphia Drying Machinery Company. (See Allsop and Sibson, assignors.)

Philadelphia Drying Machinery Company, The. (See Allsup, Sibson, and Hagar, assignors.)

Philadelphia Drying Machinery Company, The. (See Miller, William, assignor.)

Philadelphia Electrical & Manufacturing Co. (See Bundy and Manwaring, assignors.)

Philadelphia Lamp Manufacturing Company. (See Rider, Herbert E., assignor.)

Philadelphia Pipe Bending Company, The. (See Harden, George M., assignor.)

Philadelphia Pipe Bending Company, The. (See Schneider, Leopold C., assignor.)

Philadelphia Steel & Wire Co. (See Wedmore, Daniel A., assignor.)

Philadelphia Surgical Specialty Company. (See Hermann and Wolff, assignors.)

Philadelphia Textile Machinery Company. (See Schreuder, Andrew M., assignor.)

Philadelphia Textile Machinery Company, The. (See Schwartz, Charles W., Jr., assignor.)

Philadelphia Textile Machinery Company. (See Schwartz, Walter M., assignor.)

Philadelphia Watch Case Company. (See Ebelhare, William H., assignor.)

Philadelphia Watch Case Company. (See Mehl, Walter B., assignor.)

Philadelphia Watch Case Company. (See Mehl and Ebelhare, assignors.)

Philadelphia Watch Case Company. (See Ullberg and Levy, assignors.)

Philbrick, Richard A., Coffeyville, assignor of one-half to J. D. Madden, Parsons, Kans. Fire-box-door closer. No. 965,009; July 19; Sp. p. 4364; Gaz. vol. 156; p. 727.

Philibert, Auguste, Paris, France. Device for tool-holders in cutting-engines. No. 973,695; Oct. 25; Sp. p. 4800; Gaz. vol. 159; p. 834.

Philip Carey Manufacturing Company, The. (See Pendery, William H., assignor.)

Philipp, Ernst, and J. Aeppli-Meier, Zurich, Switzerland. Knife-cleaner. No. 959,803; May 31; Sp. p. 7302; Gaz. vol. 154; p. 1237.

Philipp, Herbert. (See Foersterling and Philipp.)

Philipp, Julius H., Port Huron, and C. F. Garaghty, Detroit, Mich. Flax-harvesting machine. No. 966,470; Aug. 9; Sp. p. 1323; Gaz. vol. 157; p. 236.

Philippi, Louis P., assignor to M. L. Philippi, La Crosse, Wis. Gage for corn-planters. No. 947,216; Jan. 18; Sp. p. 4867; Gaz. vol. 150; p. 803.

Philippi, Madge L. (See Philippi, Louis P., assignor.)

Philipson, Percy C. (See Philipson, William, T. W. H., and P. C.)

Philipson, Thomas W. H. (See Philipson, William, T. W. H., and P. C.)

Philipson, William, T. W. H., and P. C., Bolton, England. Stripping-brush and means for automatically cleaning the same. No. 945,591; Jan. 4; Sp. p. 1256; Gaz. vol. 150; p. 195.

Phillippi, Henry C., Reading, Pa. Water-motor. No. 949,715; Feb. 15; Sp. p. 4016; Gaz. vol. 151; p. 699.

Phillips, Arthur A., and O. Schelling, Los Angeles, Cal. Grapple. No. 968,685; Aug. 30; Sp. p. 6103; Gaz. vol. 157; p. 1067.

Phillips, Arthur P., Haverhill, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Pressure-recording gage. No. 951,658; Mar. 8; Sp. p. 2430; Gaz. vol. 152; p. 420.

Phillips, Benjamin. (See Fowler, Alfred B., assignor.)

Phillips, Bradford R., Cement, Tex. Liquid-fuel burner. No. 969,978; Sept. 13; Sp. p. 1806; Gaz. vol. 158; p. 307.

Phillips, Charles B., Blissfield, Mich. Cream-separator. No. 952,686; Mar. 22; Sp. p. 4543; Gaz. vol. 152; p. 825.

Phillips, Charles F., Los Angeles, Cal. Differential axle for railway cars and locomotives. No. 946,527; Jan. 11; Sp. p. 3424; Gaz. vol. 150; p. 548.

Phillips, Charles F., Providence, R. I. Mucilage-receptacle. No. 947,347; Jan. 25; Sp. p. 5215; Gaz. vol. 150; p. 878.

Phillips, Charles H., Buffalo, N. Y. Spool for perforated music-sheets. No. 979,090; Dec. 20; Sp. p. 3608; Gaz. vol. 161; p. 630.

Phillips, Charles H., Maplewood, Mass., assignor to Phillips Flushing Tank Company, Portland, Me. Automatic flushing mechanism. No. 968,974; Aug. 30; Sp. p. 6671; Gaz. vol. 157; p. 1162.

Phillips, Charles L. (See McGee, William D., assignor).

Phillips, Cornelius R., assignor of one-half to J. Cook and one-half to J. B. Felheimer, Philadelphia, Pa. Holder for telephone-receivers. No. 969,403; Sept. 6; Sp. p. 538; Gaz. vol. 158; p. 86.

Phillips, David, *et al.* (See Boyd, John, assignor.)

Phillips, David J. (See Bartholomew and Phillips.)

Phillips, Edwin R., El Paso, Tex. Fuel-economizer. No. 957,173; May 3; Sp. p. 1432; Gaz. vol. 154; p. 229.

Phillips, Eli W., assignor to American Tool and Machine Company, Boston, Mass. Cylinder-piston. No. 956,163; Apr. 26; Sp. p. 5363; Gaz. vol. 153; p. 942.

Phillips Flushing Tank Company. (See Phillips, Charles H., assignor.)

Phillips, Frank J., Chicago, Ill. Electromagnetic separator. No. 966,855; Aug. 9; Sp. p. 2222; Gaz. vol. 157; p. 365.

Phillips, Frank J., Chicago, Ill. Casting non-ferric metals. No. 977,546; Dec. 6; Sp. p. 305; Gaz. vol. 161; p. 45.

Phillips, Frank M. (See Hudgins, Charles F., assignor.)

Phillips, Franklin, Newark, N. J. Corliss valve-gear. No. 969,802; Sept. 13; Sp. p. 1426; Gaz. vol. 158; p. 248.

Phillips, Harrison W., Muscatine, Iowa. Paneling doors. No. 965,220; July 26; Sp. p. 4783; Gaz. vol. 156; p. 827.

Phillips, Henry D., Indianapolis, Ind. Composition of matter for concrete. No. 954,692; Apr. 12; Sp. p. 2137; Gaz. vol. 153; p. 374.

Phillips, Henry D., Indianapolis, Ind. Composition of matter for the manufacture of building-bricks. No. 954,693; Apr. 12; Sp. p. 2138; Gaz. vol. 153; p. 374.

Phillips, Henry D., Indianapolis, Ind. Composition of matter for the manufacture of road or street bricks. No. 954,694; Apr. 12; Sp. p. 2139; Gaz. vol. 153; p. 374.

Phillips, Herbert L., Seattle, Wash. Hauling and hoisting apparatus. No. 954,881; Apr. 12; Sp. p. 2608; Gaz. vol. 153; p. 443.

Phillips, Hiram, St. Louis, Mo. Plumbing attachment. No. 957,709; May 10; Sp. p. 2561; Gaz. vol. 154; p. 443.

Phillips, James, Buffalo, N. Y. Barrel-painting machine. No. 977,966; Dec. 6; Sp. p. 1188; Gaz. vol. 161; p. 189.

Phillips, James D., and C. Hambuechen, Madison, Wis. Cleaning metal articles. No. 945,865; Jan. 11; Sp. p. 1920; Gaz. vol. 150; p. 319.

Phillips, James D., and C. Hambuechen, Madison, Wis. Apparatus for cleaning metal articles. No. 945,866; Jan. 11; Sp. p. 1922; Gaz. vol. 150; p. 319.

Phillips, John, Wilkeson, Wash. Steam-engine valve-gear. No. 979,031.; Dec. 20; Sp. p. 3481; Gaz. vol. 161; p. 610.

Phillips, John B., assignor to The Borden Company, Warren, Ohio. Thread-cutting tool. No. 948,706; Feb. 8; Sp. p. 1963; Gaz. vol. 151; p. 337.

Phillips, John B., assignor to The Borden Company, Warren, Ohio. Pipe-threading tool. No. 952,629; Mar. 22; Sp. p. 4419; Gaz. vol. 152; p. 806.

Phillips, John B., assignor to The Borden Company, Warren, Ohio. Adjustable die-stock. No. 953,057; Mar. 29; Sp. p. 5311; Gaz. vol. 152; p. 978.

Phillips, John E. (See Park and Phillips.)

Phillips, John H., Jr., Jackson, Mich. Pipe or hose coupling. No. 946,396; Jan. 11; Sp. p. 3130; Gaz. vol. 150; p. 504.

Phillips, John O., Canajoharie, N. Y. Sheet-music turner. No. 957,370; May 10; Sp. p. 1885; Gaz. vol. 154; p. 328.

Phillips, John W., Silver City, Nev. Centrifugal separator. No. 945,592; Jan. 4; Sp. p. 1257; Gaz. vol. 150; p. 195.

Phillips, Lee, Celoron, N. Y. Building-block. No. 962,463; June 28; Sp. p. 4695; Gaz. vol. 155; p. 828.

Phillips, Marcus, Chicago, Ill. Catamaran. No. 979,557; Dec. 27; Sp. p. 4626; Gaz. vol. 161; p. 813.

Phillips, Nathan C., assignor to Russia Cement Company, Gloucester, Mass. Bottle for adhesive liquids. No. 973,066; Oct. 18; Sp. p. 3433; Gaz. vol. 159; p. 594.

Phillips, Orlando F., and M. H. McCanlon, Butlerville, Ind. Road drag and grader. No. 961,007; June 7; Sp. p. 1547; Gaz. vol. 155; p. 259.

Phillips, Thomas, *et al.* (See Tullock, William, assignor.)

Phillips, Walter B., Kansas City, Mo. Metallic stud or furring-strip. No. 963,938; July 12; Sp. p. 2018; Gaz. vol. 156; p. 332.

Phillips, Walter P., Bridgeport, Conn. Secret telegraph system. No. 963,062; July 5; Sp. p. 69; Gaz. vol. 156; p. 14.

Phillips, William A., St. Louis, Mo., assignor to Rheolite Company, Milwaukee, Wis. Composition of matter and making the same. No. 959,068; May 24; Sp. p. 5772; Gaz. vol. 154; p. 967.

Phillips, William F., Newton, Iowa. Gearing device. No. 950,402; Feb. 22; Sp. p. 5534; Gaz. vol. 151; p. 969.

Phillips, William R., Trenton, N. J. Apple-paring machine. No. 954,340; Apr. 5; Sp. p. 1374; Gaz. vol. 153; p. 228.

Alphabetical list of patentees—Continued.

Phillips, William S., Cameron, W. Va. Chair. No. 958,529; May 17; Sp. p. 4617; Gaz. vol. 154; p. 758.
Phillips, William T. (See De Lisle and Phillips.)
Philp, Bertil von, New York, N. Y., assignor to C. von Philp, Bethlehem, Pa. Continuous printing press. No. 955,196; Apr. 19; Sp. p. 3230; Gaz. vol. 153; p. 579.
Philp, Bertil von, New York, N. Y., assignor to C. von Philp, Bethlehem, Pa. Inking device. No. 955,197; Apr. 19; Sp. p. 3238; Gaz. vol. 153; p. 580.
Philp, Casimir von. (See Philp, Bertil von, assignor.)
Philp, Casimir von, Brooklyn, N. Y. Tag-making machine. No. 965,323; July 26; Sp. p. 5016; Gaz. vol. 156; p. 863.
Philp, Casimir von, assignor to Bethlehem Steel Co., Bethlehem, Pa. Rolling-mill for rolling car-wheels. No. 956,780; May 3; Sp. p. 597; Gaz. vol. 154; p. 95.
Philp, Frederick D., Detroit, Mich. Umbrella. No. 952,630; Mar. 22; Sp. p. 4420; Gaz. vol. 152; p. 806.
Philpot, Thomas G., assignor to Industrial Lumber Company, Augusta, Ga. Closet-seat. No. 956,410; Apr. 26; Sp. p. 5899; Gaz. vol. 153; p. 1026.
Phinney, Arthur S. (See Phinney, Fred S., assignor.)
Phinney, Elisha A., assignor to George H. Fuller & Son Company, Pawtucket, R. I. Pin and joint. No. 966,763; Aug. 9; Sp. p. 2026; Gaz. vol. 157; p. 337.
Phinney Engineering Company, The. (See Phinney, William B., assignor.)
Phinney, Fred S., and O. Adams, assignors to A. S. Phinney, New York, N. Y. Clock. No. 967,428; Aug. 16; Sp. p. 3413; Gaz. vol. 157; p. 588.
Phinney, Frederick, New York, N. Y. Clock. No. 967,429; Aug. 16; Sp. p. 3415; Gaz. vol. 157; p. 588.
Phinney, William B., Westfield, N. Y., assignor, by mesne assignments, to The Phinney Engineering Company, Chillicothe, Ohio. Machine for cutting fish, &c. No. 964,881; July 19; Sp. p. 4111; Gaz. vol. 156; p. 684.
Phinny, Christopher W., Brownwood, Tex. Roof-shoe. No. 958,277; May 17; Sp. p. 3969; Gaz. vol. 154; p. 669.
Phipps, Clayton C., San Diego, Cal. Oil-burning furnace. No. 958,433; May 17; Sp. p. 4439; Gaz. vol. 154; p. 725.
Phipps, Dexter L. (See Jackson, John A., assignor.)
Phipps, Purdie, Oatley, New South Wales, Australia. Rigid metal angle-piece for use in structural frames, metallic standards, &c. No. 952,016; Mar. 15; Sp. p. 3165; Gaz. vol. 152; p. 570.
Phoenix Combination Lock Company. (See Bennett, Fred E., assignor.)
Phoenix Glass Co., The. (See Kaye, Melvin W., assignor.)
Phoenix Iron Company, The, *et al.* (See Maccallum, Norman E., assignor.)
Phoenix, Stephen P., Islip, N. Y. Roof-bracket. No. 961,642; June 14; Sp. p. 2896; Gaz. vol. 155; p. 501.
Phonographic Music Co. (See Sherwood, William I., assignor.)
Piagneri, Umberto, San Francisco, Cal. Cleaning attachment for space-bands of linotype-machines. No. 974,594; Nov. 1; Sp. p. 1183; Gaz. vol. 160; p. 181.
Pians, Pietro S., New Rochelle, N. Y. Automatic door. No. 972,639; Oct. 11; Sp. p. 2472; Gaz. vol. 159; p. 420.
Piatt, W. G., *et al.* (See Houze, Luke, assignor.)
Piccot, Henry W., Scarsdale, N. Y., assignor to Radio Sign Company. Sign-letter. No. 953,101; Mar. 29; Sp. p. 5423; Gaz. vol. 152; p. 993.
Piché, Guillaume W., Upton, Quebec, Canada. Reclining-chair. No. 967,665; Aug. 16; Sp. p. 3887; Gaz. vol. 157; p. 667.
Picher Lead Company. (See Hughes, Louis S., assignor.)
Pichler, Stephan, Brooklyn, N. Y. Life-preserver. No. 950,240; Feb. 22; Sp. p. 5231; Gaz. vol. 151; p. 917.
Pichon, Louis A., Paris, and C. M. V. Allenou, Ville d'Avray, France. Collar-stud or similar fastening. No. 960,581; June 7; Sp. p. 701; Gaz. vol. 155; p. 115.
Pichon, Louis A., Paris, and C. M. V. Allenou, Ville d'Avray, France. Hinged-flap button. No. 976,288; Nov. 22; Sp. p. 4882; Gaz. vol. 160; p. 834.
Pichon, Paul F. (See Schloemilch and Pichon.)
Pick, Alfred, Vienna, Austria-Hungary. Magnetic clutch. No. 956,164; Apr. 26; Sp. p. 5365; Gaz. vol. 153; p. 942.
Pickard, Charles E. (See Buckingham, Roswell H., assignor.)
Pickard, Greenleaf W., Amesbury, Mass. Electrical space communication. No. 956,165; Apr. 26; Sp. p. 5369; Gaz. vol. 153; p. 943.
Pickard, Greenleaf W., Amesbury, Mass. Oscillation-receiver. No. 963,173; July 5; Sp. p. 372; Gaz. vol. 156; p. 52.
Pickard, Greenleaf W., Amesbury, Mass. Telephone receiving apparatus. No. 972,715; Oct. 11; Sp. p. 2624; Gaz. vol. 159; p. 446.
Pickard, Richard F., North Tonawanda, N. Y. Combination-fastener. No. 976,209; Nov. 22; Sp. p. 4673; Gaz. vol. 160; p. 805.
Pickart, Emil, assignor to F. S. Betz, Hammond, Ind. Joint for leg-rests. No. 979,091; Dec. 20; Sp. p. 3610; Gaz. vol. 161; p. 630.
Pickering, Abel W., assignor of one-sixth to A. A. Russell, one-sixth to T. A. Moon, and one-sixth to W. R. Haughawout, Joplin, Mo. Wind-motor. No. 960,394; June 7; Sp. p. 325; Gaz. vol. 155; p. 54.
Pickering, Edward, Pasadena, Cal., assignor to Goss Printing Press Co., Chicago, Ill. Printing-press. No. 961,256; June 14; Sp. p. 2057; Gaz. vol. 155; p. 370.
Pickering Governor Co., The. (See Hall, Stephen S., assignor.)
Pickering, Percy, Wellington, New Zealand. Flooring-cramp. No. 977,471; Dec. 6; Sp. p. 93; Gaz. vol. 161; p. 18.
Pickering, Ruben L., Falling Spring, W. Va. Chalk-line reel. No. 956,598; May 3; Sp. p. 196; Gaz. vol. 154; p. 34.
Pickett, James A., Pulaski, Va. Freight-car-door operator. No. 964,934; July 19; Sp. p. 4212; Gaz. vol. 156; p. 703.
Pickett, Joseph H., Gardner, Mass. Corner-locking machine. No. 963,063; July 5; Sp. p. 70; Gaz. vol. 156; p. 14.
Pickett, Montgomery B., Maywood, assignor of one-half to R. F. Palmer, Chicago, Ill. Mechanism for crushing cans. No. 969,720; Sept. 6; Sp. p. 1202; Gaz. vol. 158; p. 194.
Pickett, Ocren G., Jefferson City, Mo. Linotype-machine attachment. No. 958,530; May 17; Sp. p. 4619; Gaz. vol. 154; p. 759.
Pickles, Charles K., St. Louis, Mo., assignor to Sheffield Car Company, Three Rivers, Mich. Track-drill. No. 967,552; Aug. 16; Sp. p. 3663; Gaz. vol. 157; p. 630.
Pickles, John, De Soto, Mo. Oil-burning twyer. No. 966,704; Aug. 9; Sp. p. 1845; Gaz. vol. 157; p. 316.
Pickton, Charles F., Jeannette, Pa. Locking means for retort-doors. No. 965,221; July 26; Sp. p. 4784; Gaz. vol. 156; p. 827.
Pickwick, Eli, Jr., Newark, N. J. Line-ruling device. No. 976,687; Nov. 22; Sp. p. 5724; Gaz. vol. 160; p. 969.
Pidgeon, Edward J., Newark, N. J. Grain-separator. No. 977,677; Dec. 6; Sp. p. 579; Gaz. vol. 161; p. 88.
Piechowski, Barnard. (See Goetz and Piechowski.)
Pielock, Eduard, Berlin, Germany. Heating-tube for tubular steam-boilers. No. 948,741; Feb. 8; Sp. p. 2042; Gaz. vol. 151; p. 349.
Pieper, Anton. (See Hof and Pieper.)
Pieper, Charles J. (See Pieper, Gustav A. and C. J.)
Pieper, Gustav A. and C. J., Loretto, Minn. Manure-truck. No. 952,711; Mar. 22; Sp. p. 4599; Gaz. vol. 152; p. 833.
Pieper, Henry, Uehling, Nebr. Egg candling and packing machine. No. 952,352; Mar. 15; Sp. p. 3808; Gaz. vol. 152; p. 682.
Pieper, Henry, Uehling, Nebr. Holder for fly-catching paper. No. 967,048; Aug. 9; Sp. p. 2628; Gaz. vol. 157; p. 431.
Pieper, Nicolas, Liege, Belgium. Semi-automatic small-arm. No. 974,425; Nov. 1; Sp. p. 778; Gaz. vol. 160; p. 118.
Piéplu, Henri M., Paris, France. Carbureter. No. 975,156; Nov. 8; Sp. p. 2438; Gaz. vol. 160; p. 396.
Pierce, Alfred J., Conshohocken, Pa. Strip-cutter. No. 961,643; June 14; Sp. p. 2897; Gaz. vol. 155; p. 501.
Pierce, Alfred L., Wallingford, Conn., assignor of one-half to S. K. Long, New York, N. Y. Tree-insulator. No. 971,785; Oct. 4; Sp. p. 575; Gaz. vol. 159; p. 100.
Pierce, Allen B. (See Whiting, John T., assignor.)
Pierce, Burt N., Indianapolis, Ind. Carbureter. No. 973,877; Oct. 25; Sp. p. 5170; Gaz. vol. 159; p. 898.
Pierce, Butler & Pierce Manufacturing Company. (See Burnett, Arthur D., assignor.)
Pierce, Cecil R., Rainier, Wash. Saw-fitting device. No. 972,789; Oct. 11; Sp. p. 2764; Gaz. vol. 159; p. 470.
Pierce, Charles F., East Providence, R. I. Cigar-holder. No. 977,834; Dec. 6; Sp. p. 901; Gaz. vol. 161; p. 142.
Pierce, Charles S. (See Alden and Reinhardt, assignors.)
Pierce, Charles S. (See Legg, Alfred G., assignor.)
Pierce, Edward. (See Wallmann, Johann G., assignor.)
Pierce, Edward, West Burlington, Iowa. Track-drill. No. 952,466; Mar. 22; Sp. p. 4054; Gaz. vol. 152; p. 749.
Pierce, Edward W., Philadelphia, Pa., assignor of one-half to J. W. Starr, 3d, Atlantic City, N. J. Vacuum cleaning apparatus. No. 963,723; July 5; Sp. p. 1523; Gaz. vol. 156; p. 237.
Pierce, Edwin F., Milwaukee, Wis. Shade-holder coupling. No. 962,524; June 28; Sp. p. 4828; Gaz. vol. 155; p. 849.
Pierce, Edwin F., Milwaukee, Wis. Adjustable joint for electric-light fixtures. No. 973,558; Oct. 25; Sp. p. 4501; Gaz. vol. 159; p. 786.
Pierce, Forrester H. (See Lamasney and Pierce.)
Pierce, Frederick E. (See Palmer and Pierce.)
Pierce, George A. (See Pierce, William W. and G. A.)
Pierce, Harold S., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Drive-chain. No. 958,675; May 17; Sp. p. 4901; Gaz. vol. 154; p. 805.
Pierce, Robert F. (See Machalske, Florentine J., assignor.)
Pierce, Roscoe, and W. U. Colthar, Springfield, Ohio; said Colthar assignor to said Pierce. Paper-trimmer. No. 953,856; Apr. 5; Sp. p. 351; Gaz. vol. 153; p. 62.
Pierce, Stephen D., Ocean City, N. J. House mail-receptacle. No. 961,527; June 14; Sp. p. 2659; Gaz. vol. 155; p. 462.
Pierce, Valentine M. (See Baker and Pierce.)
Pierce, William G., Kirkwood, Mo. High-temperature alarm. No. 968,406; Aug. 23; Sp. p. 5471; Gaz. vol. 157; p. 942.

Alphabetical list of patentees—Continued.

Pierce, William J., Los Angeles, Cal. Shock-absorber for vehicles. No. 979,032; Dec. 20; Sp. p. 3490; Gaz. vol. 161; p. 611.
Pierce, William O., Placerville, Cal. Combined collar-fastener and tie-support. No. 953,547; Mar. 29; Sp. p. 6389; Gaz. vol. 152; p. 1144.
Pierce, William W. and G. A., Philadelphia, Pa. Safety limit-switch. No. 971,307; Sept. 27; Sp. p. 4594; Gaz. vol. 158; p. 804.
Piercy, Robert A. A. S., Scrubwood, Wendover, England. Staging or support for submarine boring, blasting, pile-driving, block-setting, and like operations. No. 968,975; Aug. 30; Sp. p. 6676; Gaz. vol. 157; p. 1163.
Pieritz, Johannes, Sievertshagen, Germany. Oar. No. 973,067; Oct. 18; Sp. p. 3434; Gaz. vol. 159; p. 595.
Pierman, Alexander N., Newark, N. J. Roller-skate. No. 968,517; Aug. 23; Sp. p. 5697; Gaz. vol. 157; p. 981.
Pierman, Alexander N., Newark, assignor of one-half to F. L. Dyer, Montclair, N. J. Drying-rack for photographic plates. No. 970,108; Sept. 13; Sp. p. 2072; Gaz. vol. 158; p. 352.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Units-measuring mechanism for composing-machines. No. 952,631; Mar. 22; Sp. p. 4422; Gaz. vol. 152; p. 807.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Pattern or record strip composing-machine. No. 952,632; Mar. 22; Sp. p. 4426; Gaz. vol. 152; p. 807.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Letter-spacing mechanism for type casting and composing machines. No. 952,633; Mar. 22; Sp. p. 4429; Gaz. vol. 152; p. 808.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Automatic drilling-machine. No. 962,464; June 28; Sp. p. 4697; Gaz. vol. 155; p. 828.
Pierson, Henry, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic mechanism. No. 969,493; Sept. 6; Sp. p. 724; Gaz. vol. 158; p. 115.
Pierson, John, Ingersoll, Okla. Whiffletree clip and hook. No. 945,593; Jan. 4; Sp. p. 1259; Gaz. vol. 150; p. 196.
Pierson, Marian B., assignor of one-half to H. Menly, Corpus Christi, Tex. Resilient wheel. No. 971,557; Oct. 4; Sp. p. 104; Gaz. vol. 159; p. 20.
Pierson, Robert M., Bronxville, N. Y., assignor to C. F. Brown, trustee, Reading, Mass. Signal for motor-vehicles. No. 961,158; June 14; Sp. p. 1848; Gaz. vol. 155; p. 335.
Pierson, Robert M., New York, N. Y., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Compound internal-combustion engine. No. 967,828; Aug. 16; Sp. p. 4221; Gaz. vol. 157; p. 722.
Pierson, William D., Waterbury, assignor to H. P. and E. Day, Incorporated, Seymour, Conn. Grinding-machine. No. 980,122; Dec. 27; Sp. p. 5874; Gaz. vol. 161; p. 1003.
Piestrak, Casimir S., Paris, France. Apparatus for the sterilization of water or other liquids. No. 979,999; Dec. 27; Sp. p. 5567; Gaz. vol. 161; p. 962.
Pietzsch, Albert, Triberg, Germany, and E. Steinbuch, Monthey, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Apparatus for continuous electrolysis of aqueous solutions. No. 977,125; Nov. 29; Sp. p. 6742; Gaz. vol. 160; p. 1147.
Pietzsch, Albert, Triberg, Germany, and E. Steinbuch, Monthey, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Continuous electrolysis of aqueous solutions. No. 978,934; Dec. 20; Sp. p. 3246; Gaz. vol. 161; p. 576.
Pifer, C. W., *et al.* (See Williams, Walter S., assignor.)
Piggott, Edmund, Detroit, Mich. Hand-cultivator. No. 957,573; May 10; Sp. p. 2288; Gaz. vol. 154; p. 396.
Pignocco, John, La Salle, Ill. Wine-press. No. 970,391; Sept. 13; Sp. p. 2651; Gaz. vol. 158; p. 447.
Pignone, Emanuel, New York, N. Y., assignor of one-half to G. M. Laub, Newark, N. J. Apparatus for cutting paper, cloth, or similar patterns. No. 974,293; Nov. 1; Sp. p. 487; Gaz. vol. 160; p. 71.
Pike Adding Machine Company. (See Gardner, Clyde E. W., assignor.)
Pike, Charles F., Philadelphia, Pa. Trap for catching porpoises. No. 972,227; Oct. 11; Sp. p. 1577; Gaz. vol. 159; p. 277.
Pike, Charles F., Philadelphia, Pa. Trap for catching porpoises. No. 972,228; Oct. 11; Sp. p. 1579; Gaz. vol. 159; p. 277.
Pike, Charles F., Philadelphia, Pa. Trap for catching porpoises. No. 972,229; Oct. 11; Sp. p. 1581; Gaz. vol. 159; p. 277.
Pike, Charles F., Philadelphia, Pa. Trap for catching porpoises. No. 972,230; Oct. 11; Sp. p. 1582; Gaz. vol. 159; p. 278.
Pike, Charles F., Philadelphia, Pa. Trap for catching porpoises. No. 972,231; Oct. 11; Sp. p. 1584; Gaz. vol. 159; p. 278.
Pike, Charles F., Philadelphia, Pa. Fish-trap. No. 972,232; Oct. 11; Sp. p. 1585; Gaz. vol. 159; p. 278.
Pike, Charles F., Philadelphia, Pa. Trap for catching porpoises. No. 972,233; Oct. 11; Sp. p. 1586; Gaz. vol. 159; p. 279.
Pike, Charles F., Philadelphia, Pa. Trap for catching porpoises. No. 972,234; Oct. 11; Sp. p. 1588; Gaz. vol. 159; p. 279.
Pike, Charles F., Philadelphia, Pa. Trap for catching porpoises. No. 972,235; Oct. 11; Sp. p. 1589; Gaz. vol. 159; p. 279.
Pike, Edward. (See Holmgren, Peter, assignor.)
Pike, Edwin B. (See Hayne and Pike.)
Pike, Edwin B., Pike, N. H. Box for sharpening-stones. No. 973,968; Oct. 25; Sp. p. 5343; Gaz. vol. 159; p. 929.
Pike, Edwin B., Pike, N. H., and L. Hayne, Newark, N. J. Grinding-machine. No. 965,933; Aug. 2; Sp. p. 178; Gaz. vol. 157; p. 30.
Pike, Edwin B., Pike, N. H., and L. Hayne, Schenectady, N. Y., assignors to Pike Manufacturing Company, Pike, N. H. Grinding device. No. 970,351; Sept. 13; Sp. p. 2570; Gaz. vol. 158; p. 434.
Pike Manufacturing Company. (See Pike and Hayne, assignors.)
Pike, Robert G., Middletown, Conn. Combination spirit-level and folding rule. No. 973,458; Oct. 18; Sp. p. 4281; Gaz. vol. 159; p. 729.
Pilain, Francois, Lyon, France. Shaft-driven axle for automobile vehicles. No. 975,276; Nov. 8; Sp. p. 2705; Gaz. vol. 160; p. 437.
Pilarski, Thomas M., New Britain, Conn. Door-latch. No. 952,277; Mar. 15; Sp. p. 3665; Gaz. vol. 152; p. 656.
Pilblad, Eric J., assignor to Sutherland Rifle Sight Company, Limited, New Glasgow, Nova Scotia, Canada Rifle-sight. No. 963,389; July 5; Sp. p. 858; Gaz. vol. 156; p. 127.
Pilcher, Frank A., Marietta, Ohio. Trip stop-action for automatic musical instruments. No. 952,546; Mar. 22; Sp. p. 4230; Gaz. vol. 152; p. 776.
Pilcher, Herbert H., Mullins, Tenn. Compound steam-engine. No. 961,795; June 21; Sp. p. 3208; Gaz. vol. 155; p. 576.
Pilkington, Alfred C., St. Helens, England. Making figured and variegated glass plates. No. 950,864; Mar. 1; Sp. p. 854; Gaz. vol. 152; p. 137.
Pilkington, George B., Waterbury, Conn. Gearing. No. 955,198; Apr. 19; Sp. p. 3240; Gaz. vol. 153; p. 580.
Pilkington, Herbert M., Ridgewood, N. J. Hose-coupling. No. 977,472; Dec. 6; Sp. p. 95; Gaz. vol. 161; p. 18.
Pilkington, Joseph H., Waterbury, Conn. Pen and pencil clip. No. 955,430; Apr. 19; Sp. p. 3745; Gaz. vol. 153; p. 658.
Pill, John R. (See Varner, William L., assignor.)
Pill, Norman W., Newport, England. Carbureting apparatus. No. 950,825; Mar. 1; Sp. p. 784; Gaz. vol. 152; p. 125.
Pillig, John, Amsterdam, N. Y. Nut-lock. No. 969,404; Sept. 6; Sp. p. 540; Gaz. vol. 158; p. 86.
Pilliner, Philip F., Philadelphia, Pa. Combination-tool. No. 951,200; Mar. 8; Sp. p. 1488; Gaz. vol. 152; p. 269.
Pilling, Charles J., Philadelphia, Pa. Caponizing instrument. No. 962,586; June 28; Sp. p. 4972; Gaz. vol. 155; p. 870.
Pillsbury, Edwin S., St. Louis, Mo., assignor to Century Electric Company. Electric motor. No. 973,878; Oct. 25; Sp. p. 5172; Gaz. vol. 159; p. 898.
Pilsbry, Alice A., assignor of one-third to H. C. Chapin and one-third to H. K. Chapin, Chicago, Ill. Reading-stand. No. 971,634; Oct. 4; Sp. p. 263; Gaz. vol. 159; p. 47.
Pilz, Moris, Brooklyn, N. Y. Bottle and stopper. No. 958,169; May 17; Sp. p. 3749; Gaz. vol. 154; p. 634.
Pinching, William B., Palmers Green, England. Device for the manufacture of bundled fire-lighters. No. 964,548; July 19; Sp. p. 3317; Gaz. vol. 156; p. 568.
Pindstofte, Anders A., Frederiksberg, near Copenhagen, Denmark. Pasteurizing apparatus. No. 946,397; Jan. 11; Sp. p. 3137; Gaz. vol. 150; p. 505.
Pindstofte, Anders A., Copenhagen, Denmark. Bottling-machine. No. 967,049; Aug. 9; Sp. p. 2630; Gaz. vol. 157; p. 431.
Pindstofte, Anders A., Copenhagen, Denmark. Rotary bottling-machine. No. 967,050; Aug. 9; Sp. p. 2631; Gaz. vol. 157; p. 432.
Pindstofte, Anders A., Copenhagen, Denmark. Bottling-machine. No. 976,688; Nov. 22; Sp. p. 5725; Gaz. vol. 160; p. 969.
Pine, James K. P., Troy, N. Y., assignor to United Shirt and Collar Company. Machine for bending collars and the like. No. 974,426; Nov. 1; Sp. p. 782; Gaz. vol. 160; p. 118.
Pinel, Walter P., Quincy, Mass. Non-breakable reticulated chimney. No. 972,640; Oct. 11; Sp. p. 2474; Gaz. vol. 159; p. 421.
Pinelli, Domenico, Sedro Woolley, Wash. Combined cane and musical instrument. No. 956,504; Apr. 26; Sp. p. 6114; Gaz. vol. 153; p. 1058.
Ping, Robert G. (See Mendenhall and Ping.)
Pink, John J., Chicago, Ill. Light-shield for moving-picture machines. No. 956,166; Apr. 26; Sp. p. 5373; Gaz. vol. 153; p. 943.
Pinkard, J. D., *et al.* (See Pochyla and King, assignors.)

Alphabetical list of patentees—Continued.

Pinkham, Emerson H., New York, N. Y. Saddle-support. No. 975,791; Nov. 15; Sp. p. 3793; Gaz. vol. 160; p. 639.
Pinkham, William F. (See Noyes, Mayhew E., assignor.)
Pinkley, Charles F., Wadsworth, Ohio. Scaffold-bracket. No. 961,422; June 14; Sp. p. 2418; Gaz. vol. 155; p. 427.
Pinkney, Bryan D., assignor to The Loew Manufacturing Company, Cleveland, Ohio. Pasteurizer. No. 979,796; Dec. 27; Sp. p. 5165; Gaz. vol. 161; p. 895.
Pinkstone, James A., Clinton, Mich. Fiber-feeding machine. No. 980,000; Dec. 27; Sp. p. 5568; Gaz. vol. 161; p. 962.
Pinto, Frank, Fort Worth, Tex. Collapsible box. No. 974,820; Nov. 8; Sp. p. 1676; Gaz. vol. 160; p. 281.
Pioneer Engineering Syndicate Limited. (See Sgal and Schwanda, assignors.)
Piper, Alexander R., Brooklyn, N. Y. Dumping-vehicle. No. 967,970; Aug. 23; Sp. p. 4511; Gaz. vol. 157; p. 793.
Piper, Arthur L., Seattle, Wash. Stove. No. 959,026; May 24; Sp. p. 5665; Gaz. vol. 154; p. 952.
Piper, Charles W., *et al.*. (See Kell, Henry, assignor.)
Piper, Chester L. (See McDowall, Peter, assignor.)
Piper, David H., Celina, Ohio. Pump. No. 953,548; Mar. 29; Sp. p. 6390; Gaz. vol. 152; p. 1145.
Piper, E. D. (See Finley and Glaspy, assignors.)
Piper, James C., Indianapolis, Ind. Arc-lamp. No. 961,733; June 14; Sp. p. 3071; Gaz. vol. 155; p. 532.
Piper, Louis B., Chicago, Ill. Furnace. No. 955,199; Apr. 19; Sp. p. 3243; Gaz. vol. 153; p. 581.
Piper, Walter E. (See Thompson, William F., assignor.)
Piper, William T., North Andover, Mass., Steam-boiler gage. No. 961,008; June 7; Sp. p. 1548; Gaz. vol. 155; p. 259.
Pipes, Albert L., Clarence, Mo. Automatic switch for railways. No. 958,531; May 17; Sp. p. 4624; Gaz. vol. 154; p. 759.
Pipes, Albert L., Pryor, Okla. Switch-stand for railways. No. 976,210; Nov. 22; Sp. p. 4674; Gaz. vol. 160; p. 805.
Pipes, William H., and D. W. Fugler, Torras, La. Double-rein buckle. No. 952,712; Mar. 22; Sp. p. 4600; Gaz. vol. 152; p. 834.
Pippen, Henry L., Whitakers, N. C. Peanut-gleaner. No. 972,910; Oct. 18; Sp. p. 3081; Gaz. vol. 159; p. 541.
Piscator, Charles. (See Piscator, Robert C. and C.)
Piscator, Robert C. and C., Indianapolis, Ind. Fishing-rod holder. No. 977,835; Dec. 6; Sp. p. 903; Gaz. vol. 161; p. 143.
Pisel, Walter E., Bloomdale, Ohio. Home-plate. No. 948,342; Feb. 8; Sp. p. 1168; Gaz. vol. 151; p. 214.
Piskorski, Abdon V., Jersey City, N. J. Automobile-horn No. 971,635; Oct. 4; Sp. p. 265; Gaz. vol. 159; p. 47.
Pistor, Gustav, and P. Rakowicz, Griesheim, assignors to Chemische Fabrik Griesheim Electron, Frankfort-on-the-Main, Germany. Article of manufacture. No. 965,485; July 26; Sp. p. 5363; Gaz. vol. 156; p. 918.
Pitcher, Thomas W., Bayonne, N. J., assignor to Automatic Water Heater Company. Water-heater. No. 965,536; July 26; Sp. p. 5501; Gaz. vol. 156; p. 937.
Pitel, Conrad M., Meriden, Conn. Extension light-fixture. No. 956,823; May 3; Sp. p. 708; Gaz. vol. 154; p. 111.
Pitman, Harry M., Oakland, Cal. Detachable automobile-tire tread. No. 969,722; Sept. 6; Sp. p. 1205; Gaz. vol. 158; p. 194.
Pitman, Harry M., assignor of two-thirds to I. Vaughan, Oakland, Cal. Detachable automobile-tire tread. No. 969,721; Sept. 6; Sp. p. 1205; Gaz. vol. 158; p. 194.
Pitner, Henry B., Dubois, Pa. Wind-shield. No. 952,353; Mar. 15; Sp. p. 3813; Gaz. vol. 152; p. 682.
Pitner, Henry B., Olean, N. Y. Curtain-fastener and the like. No. 973,809; Oct. 25; Sp. p. 5026; Gaz. vol. 159; p. 873.
Pitner, Marion W., Chicago, Ill. Pipe-end closure. No. 959,385; May 24; Sp. p. 6405; Gaz. vol. 154; p. 1071.
Pitner, Marion W., Chicago, Ill. Lamp. No. 970,948; Sept. 20; Sp. p. 3854; Gaz. vol. 158; p. 658.
Pitt, John A., St. Louis, Mo., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Cable-carrier apparatus. No. 951,335; Mar. 8; Sp. p. 1771; Gaz. vol. 152; p. 312.
Pitt, William A., assignor of three-fourths to S. S. Underwood, Montreal, Quebec, Canada. Track-sander. No. 959,596; May 31; Sp. p. 6864; Gaz. vol. 154; p. 1167.
Pitt, William E., Oxford, Pa. Harness-saddle. No. 955,102; Apr. 12; Sp. p. 3030; Gaz. vol. 153; p. 514.
Pittenger, Orlo S., Crab Orchard, Nebr. Trace-carrier. No. 961,009; June 7; Sp. p. 1552; Gaz. vol. 155; p. 260.
Pittings, John. (See Brown and Pittings.)
Pittler, Wilhelm von, Wilmersdorf, near Berlin, Germany. Rotary compressor or the like. No. 974,913; Nov. 8; Sp. p. 1889; Gaz. vol. 160; p. 312.
Pittman, Reinhart W., New York, N. Y. Expansion-envelop. No. 975,792; Nov. 15; Sp. p. 3795; Gaz. vol. 160; p. 639.
Pitts, Benjamin W. (See Duff, Phelps, and Pitts.)
Pitts, Edward L., assignor of one-third to J. E. Ludy and one-third to J. M. Hess, Yuma, Ariz. Car-sealing device. No. 972,716; Oct. 11; Sp. p. 2626; Gaz. vol. 159; p. 446.
Pitts, James S., Garvin, Okla. Horse-releaser. No. 979,332; Dec. 20; Sp. p. 4147; Gaz. vol. 161; p. 714.
Pitts, John W., Bisbee, Ariz. Mechanical movement. No. 969,561; Sept. 6; Sp. p. 882; Gaz. vol. 158; p. 139.
Pitts, Lon L., Locust Grove, Ga. Sliding extensible step. No. 953,395; Mar. 29; Sp. p. 6071; Gaz. vol. 152; p. 1091.
Pitts, Taylor J., Greenview, Ill. Measuring instrument. No. 965,324; July 26; Sp. p. 5019; Gaz. vol. 156; p. 863.
Pittsburg Fire Extinguisher Company. (See Cooke, Frank L., assignor.)
Pittsburg High Voltage Insulator Company. (See Young, George F., assignor.)
Pittsburg Pneumatic Company, The. (See Johnson, Charles H., assignor.)
Pittsburg Spiral Wire Hoop Company. (See Merriman and Stevens, assignors.)
Pittsburg Water Heater Company. (See Frampton, Reynolds C., assignor.)
Pittsburg Water Heater Company. (See Reinecke, John P., assignor.)
Pittsburgh Coal Washer Company. (See Cory, Harvey, assignor.)
Pittsburgh Meter Company. (See Holmes, Abram G., assignor.)
Pittsburgh Plate Glass Company. (See Slingluff, Harry G., assignor.)
Pittsburgh Steel Foundry. (See Hassel, Gustav A., assignor.)
Pittsburgh Track Specialty Company. (See Hassel, Gustav A., assignor.)
Pittsburgh Valve Foundry and Construction Company, The. (See Tanner, Julius R., assignor.)
Pittsfield Spark Coil Company. (See Field, Stephen D., assignor.)
Pivny, Joseph, Wasta, S. D. Calf or colt weaner. No. 973,969; Oct. 25; Sp. p. 5345; Gaz. vol. 159; p. 930.
Pixley, John F., Columbus, Ohio, and L. C. Bush, Chicago, Ill.; said Bush assignor to C. H. Pumphrey, Chicago, Ill. Recording time-lock. No. 947,475; Jan. 25; Sp. p. 5515; Gaz. vol. 150; p. 919.
Place, Frederick E., assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Switch-stand. No. 963,646; July 5; Sp. p. 1371; Gaz. vol. 156; p. 213.
Place, Frederick E., Chicago, and M. L. Jenkins, Harvey, assignors to Buda Foundry & Manufacturing Company, Chicago, Ill. Rail-drilling machine. No. 962,914; June 28; Sp. p. 5618; Gaz. vol. 155; p. 984.
Place, Frederick E., Chicago, and M. L. Jenkins, Harvey, assignors to Buda Foundry & Manufacturing Company, Chicago, Ill. Lifting-jack. No. 979,092; Dec. 20; Sp. p. 3611; Gaz. vol. 161; p. 630.
Place, James F., Glen Ridge, N. J., assignor to American Air Liquefying Co. Mechanism for liquefying air and separating same into oxygen and nitrogen. No. 978,935; Dec. 20; Sp. p. 3248; Gaz. vol. 161; p. 576.
Place, Joseph R., Harvey, Ill. Spring-wheel. No. 953,549; Mar. 29; Sp. p. 6392; Gaz. vol. 152; p. 1145.
Plagman, Adolph, assignor to White Lily Manufacturing Company, Davenport, Iowa. Mechanical movement. No. 972,236; Oct. 11; Sp. p. 1590; Gaz. vol. 159; p. 280.
Plaisted, Delbert E., New York, N. Y., assignor to D. S. Thompson Manufacturing Company, Livermore Falls, Me. Grinding-machine. No. 965,222; July 26; Sp. p. 4786; Gaz. vol. 156; p. 828.
Plaisted, Frederic S., Penn Yan, N. Y. Ladder. No. 971,786; Oct. 4; Sp. p. 577; Gaz. vol. 159; p. 101.
Plaisted, Harold M., Granite City, Ill. Multiple power-rammer. No. 979,196; Dec. 20; Sp. p. 3867; Gaz. vol. 161; p. 669.
Plamondon, Charles A., *et al.* (See Prinz, William H., assignor.)
Plamondon, George, *et al.* (See Prinz, William H., assignor.)
Planchon, François J., Paris, France. Manufacture of filaments for electric lamps. No. 968,407; Aug. 23; Sp. p. 5472; Gaz. vol. 157; p. 943.
Plank, David H., and A. C. Finney, Schenectady, N. Y., assignors to General Electric Company. Starting device for electric motors. No. 962,856; June 28; Sp. p. 5511; Gaz. vol. 155; p. 965.
Plank, Joseph J., Appleton, Wis. Dandy-roll. No. 971,787; Oct. 4; Sp. p. 579; Gaz. vol. 159; p. 101.
Plant, Oliver W., Providence, R. I. Camera. No. 974,990; Nov. 8; Sp. p. 2083; Gaz. vol. 160; p. 340.
Plant, Thomas G. (See Bohr, Nicholas C., assignor.)
Plant, Thomas G. (See Eaton, Clarence L., assignor.)
Plant, Thomas G. (See Eno, Frank F., assignor.)
Plant, Thomas G. (See Glass, Perley R., assignor.)
Plant, Thomas G. (See Heys, John J., assignor.)
Plant, Thomas G. (See Hood, Charles E., assignor.)
Plant, Thomas G. (See Hooper, William H., assignor.)
Plant, Thomas G. (See La Chappelle, Fred, assignor.)
Plant, Thomas G. (See McLeod, George T., assignor.)
Plant, Thomas G. (See Phelan, Merton D., assignor.)
Plant, Thomas G. (See Ryan, Thomas J., assignor.)
Plant, Thomas G. (See Seely, Thomas H., assignor.)
Plant, Thomas G. (See Stanbon, Charles P., assignor.)
Plant, Thomas G. (See Stanton, Charles P., assignor.)
Plant, Thomas G. (See Stewart, George F., assignor.)
Plant, Thomas G. (See Stewart, William C., assignor.)
Plant, Thomas G. (See Woodward, Erastus, assignor.)

Alphabetical list of patentees—Continued.

Plant, Thomas G., Boston, Mass. Thread-controlling mechanism for sewing-machines. No. 946,783; Jan. 18; Sp. p. 3957; Gaz. vol. 150; p. 658.
Plant, Thomas G., Boston, Mass. Machine for inserting fasteners in leather. No. 946,825; Jan. 18; Sp. p. 4062; Gaz. vol. 150; p. 674.
Plant, Thomas G., Boston, Mass. Sewing-machine. No. 947,401; Jan. 25; Sp. p. 5331; Gaz. vol. 150; p. 895.
Plant, Thomas G., Boston, Mass. Shoe-jack. No. 958,278; May 17; Sp. p. 3970; Gaz. vol. 154; p. 669.
Plant, Thomas G., Boston, Mass. Fastener-puller. No. 958,279; May 17; Sp. p. 3977; Gaz. vol. 154; p. 669.
Plant, Thomas G., Boston, Mass. Lasting-machine. No. 958,280; May 17; Sp. p. 3982; Gaz. vol. 154; p. 670.
Plant, Thomas G., Boston, Mass. Heeling-machine attachment. No. 958,281; May 17; Sp. p. 3995; Gaz. vol. 154; p. 670.
Plant, Thomas G., Boston, Mass. Heeling-machine. No. 958,282; May 17; Sp. p. 3998; Gaz. vol. 154; p. 671.
Plant, Thomas G., Boston, Mass. Laying and leveling machine. No. 958,283; May 17; Sp. p. 4015; Gaz. vol. 154; p. 671.
Plant, Thomas G., Boston, Mass. Canvas-cementer. No. 958,284; May 17; Sp. p. 4025; Gaz. vol. 154; p. 672.
Plant, Thomas G., Boston, Mass. Shoe-sole flexer. No. 958,285; May 17; Sp. p. 4027; Gaz. vol. 154; p. 672.
Plant, Thomas G., Boston, Mass. Auxiliary lasting device. No. 958,286; May 17; Sp. p. 4034; Gaz. vol. 154; p. 672.
Plant, Thomas G., Boston, Mass. Ironing and dressing jack for boots and shoes. No. 958,287; May 17; Sp. p. 4035; Gaz. vol. 154; p. 673.
Plant, Thomas G., Boston, Mass. Boot and shoe buffing machine. No. 958,288; May 17; Sp. p. 4042; Gaz. vol. 154; p. 673.
Plant, Thomas G., Boston, Mass. Boot and shoe machine. No. 958,289; May 17; Sp. p. 4044; Gaz. vol. 154; p. 674.
Plant, Thomas G., Boston, Mass. Starting and stopping mechanism. No. 958,290; May 17; Sp. p. 4048; Gaz. vol. 154; p. 674.
Plant, Thomas G., Boston, Mass. Bed-lasting machine. No. 958,291; May 17; Sp. p. 4052; Gaz. vol. 154; p. 674.
Plant, Thomas G., Boston, Mass. Heeling-machine. No. 958,292; May 17; Sp. p. 4060; Gaz. vol. 154; p. 675.
Plant, Thomas G., Boston, Mass. Machine for inserting metallic fastenings. No. 958,293; May 17; Sp. p. 4078; Gaz. vol. 154; p. 675.
Plant, Thomas G., Boston, Mass. Shoe-sewing machine. No. 958,294; May 17; Sp. p. 4083; Gaz. vol. 154; p. 676.
Plant, Thomas G., Boston, Mass. Stopping mechanism. No. 958,295; May 17; Sp. p. 4088; Gaz. vol. 154; p. 676.
Plant, Thomas G., Boston, Mass. Sewing-machine. No. 958,296; May 17; Sp. p. 4092; Gaz. vol. 154; p. 676.
Plant, Thomas G., Boston, Mass. Welt-holder for sewing-machines. No. 958,297; May 17; Sp. p. 4097; Gaz. vol. 154; p. 677.
Plant, Thomas G., Boston, Mass. Sewing-machine. No. 958,298; May 17; Sp. p. 4099; Gaz. vol. 154; p. 678.
Plant, Thomas G., Boston, Mass. Shoe-sewing-machine. No. 958,299; May 17; Sp. p. 4107; Gaz. vol. 154; p. 678.
Plant, Thomas G., Boston, Mass. Work-support for heeling-machines. No. 958,300; May 17; Sp. p. 4110; Gaz. vol. 154; p. 678.
Plant, Thomas G., Boston, Mass. Shoe-jack. No. 958,301; May 17; Sp. p. 4122; Gaz. vol. 154; p. 679.
Plant, Thomas G., Boston, Mass. Heeling-machine. No. 958,302; May 17; Sp. p. 4133; Gaz. vol. 154; p. 679.
Plant, Thomas G., Boston, Mass. Driving-shaft controlling means. No. 958,303; May 17; Sp. p. 4143; Gaz. vol. 154; p. 679.
Plant, Thomas G., Boston, Mass. Ironing and dressing machine. No. 958,304; May 17; Sp. p. 4148; Gaz. vol. 154; p. 680.
Plant, Thomas G., Boston, Mass. Work-holder for heeling-machines. No. 958,305; May 17; Sp. p. 4154; Gaz. vol. 154; p. 680.
Plant, Thomas G., Boston, Mass. Machine for operating on the bottoms of boots and shoes. No. 958,306; May 17; Sp. p. 4158; Gaz. vol. 154; p. 681.
Plant, Thomas G., Boston, Mass. Dust-gatherer for abrading-machines. No. 965,223; July 26; Sp. p. 4790; Gaz. vol. 156; p. 828.
Plant, Thomas G., Boston, Mass. Sole laying and leveling machine. No. 965,224; July 26; Sp. p. 4792; Gaz. vol. 156; p. 829.
Plant, Thomas G., Boston, Mass. Heel or sole edge waxing machine. No. 966,471; Aug. 9; Sp. p. 1328; Gaz. vol. 157; p. 236.
Plant, Thomas G., Boston, Mass. Heel and sole edge waxing machine. No. 966,472; Aug. 9; Sp. p. 1333; Gaz. vol. 157; p. 237.
Plant, Thomas G., Boston, Mass., assignor to Manufacturers Machine Company, Montclair, N. J. Forming chain-stitches. No. 945,045; Jan. 4; Sp. p. 74; Gaz. vol. 150; p. 14.
Plantinga, Pierre, Cleveland, Ohio. Apparatus for use in the manufacture of gas. No. 949,841; Feb. 22; Sp. p. 4312; Gaz. vol. 151; p. 777.
Plass, Herbert E., assignor to Howard Miniature Lamp Company, Inc., Newark, N. J. Electric-lamp-socket support. No. 963,647; July 5; Sp. p. 1373; Gaz. vol. 156; p. 213.
Plaster Block Company. (See Makowski, John F., assignor.)
Platschick, Benvenuto, Paris, France. Apparatus for casting under pressure small metal pieces. No. 970,949; Sept. 20; Sp. p. 3858; Gaz. vol. 158; p. 659.
Platt, Addison J., Sterling, Ill. Lawn-rake. No. 957,900; May 17; Sp. p. 2972; Gaz. vol. 154; p. 537.
Platt, Arthur V., and W. B. Harlan, Como, Mont. Fruit-box-lid press. No. 970,547; Sept. 20; Sp. p. 2997; Gaz. vol. 158; p. 522.
Platt, Clarence D., Bridgeport, Conn. Insulating means for flush switches. No. 948,707; Feb. 8; Sp. p. 1964; Gaz. vol. 151; p. 337.
Platt, Clarence D., Bridgeport, Conn. Separable attachment-plug. No. 953,708; Apr. 5; Sp. p. 50; Gaz. vol. 153; p. 12.
Platt, Clarence D., Bridgeport, Conn. Detachable plug. No. 953,709; Apr. 5; Sp. p. 53; Gaz. vol. 153; p. 12.
Platt, Clarence D., Bridgeport, Conn. Adjustable casing for electric-lamp sockets. No. 954,695; Apr. 12; Sp. p. 2139; Gaz. vol. 153; p. 374.
Platt, Clarence D., Bridgeport, Conn. Quick-break knife-switch. No. 963,064; July 5; Sp. p. 73; Gaz. vol. 156; p. 14.
Platt, Clarence D., Bridgeport, Conn. Lamp-socket. No. 966,355; Aug. 2; Sp. p. 1059; Gaz. vol. 157; p. 171.
Platt, Clarence D., Bridgeport, Conn. Flush attachment plug-receptacle. No. 968,261; Aug. 23; Sp. p. 5174; Gaz. vol. 157; p. 892.
Platt, Clarence D., Bridgeport, Conn. Electric safety-switch. No. 968,796; Aug. 30; Sp. p. 6329; Gaz. vol. 157; p. 1103.
Platt, Clarence D., Bridgeport, Conn. Push-button switch. No. 969,723; Sept. 6; Sp. p. 1206; Gaz. vol. 158; p. 195.
Platt, Clarence D., Bridgeport, Conn. Fixed-polarity attachment-plug. No. 977,836; Dec. 6; Sp. p. 904; Gaz. vol. 161; p. 143.
Platt, Clarence D., Bridgeport, Conn. Casing for incandescent-lamp sockets. No. 978,483; Dec. 13; Sp. p. 2306; Gaz. vol. 161; p. 398.
Platt, Clarence D., Bridgeport, Conn. Molding-receptacle. No. 979,197; Dec. 20; Sp. p. 3871; Gaz. vol. 161; p. 670.
Platt, Henry, Suffern, N. Y. Plumb-level. No. 969,654; Sept. 6; Sp. p. 1071; Gaz. vol. 158; p. 172.
Platt Iron Works Co., The. (See Giesler, Arthur, assignor.)
Platt Iron Works Company, The. (See Gallaudet, Edson F., assignor.)
Platt, Nathaniel E., Jersey City, N. J. Sad-iron cleaner and polisher. No. 979,198; Dec. 20; Sp. p. 3873; Gaz. vol. 161; p. 670.
Plaut, Harry, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 955,681; Apr. 19; Sp. p. 4302; Gaz. vol. 153; p. 744.
Player, John, Schenectady, N. Y. Exhaust-nozzle. No. 948,019; Feb. 1; Sp. p. 493; Gaz. vol. 151; p. 80.
Player, John, Schenectady, N. Y. Exhaust-pipe. No. 948,020; Feb. 1; Sp. p. 495; Gaz. vol. 151; p. 80.
Player, John, Schenectady, N. Y. Locomotive exhaust-pipe. No. 948,021; Feb. 1; Sp. p. 500; Gaz. vol. 151; p. 81.
Player, John, Schenectady, N. Y. Locomotive spark-extinguisher. No. 951,994; Mar. 15; Sp. p. 3118; Gaz. vol. 152; p. 563.
Player, John, River Forest, Ill. Method and apparatus for the production of sheet-glass. No. 952,354; Mar. 15; Sp. p. 3814; Gaz. vol. 152; p. 682.
Player, John, River Forest, Ill. Sheet-glass-drawing machine. No. 953,973; Apr. 5; Sp. p. 568; Gaz. vol. 153; p. 103.
Player, John, Jr., Oakland, Cal. Anticreeper. No. 974,821; Nov. 8; Sp. p. 1677; Gaz. vol. 160; p. 281.
Playfoot, Edward J., assignor of one-half to C. A. Devling, Galeton, Pa. Bed-frame. No. 966,856; Aug. 9; Sp. p. 2223; Gaz. vol. 157; p. 365.
Playter, Franklin. (See Bryar, George, assignor.)
Pledger, Junius L., assignor of one-half to J. A. Naquin, Thibodaux, La. Coffee-stirring machine. No. 979,558; Dec. 27; Sp. p. 4630; Gaz. vol. 161; p. 813.
Plein, Louis, Chicago, Ill. Carbureter. No. 960,697; June 7; Sp. p. 935; Gaz. vol. 155; p. 155.
Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J. Expansion-bolt anchor. No. 950,492; Mar. 1; Sp. p. 64; Gaz. vol. 152; p. 12.
Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J. Expansion-bolt. No. 973,559; Oct. 25; Sp. p. 4503; Gaz. vol. 159; p. 786.
Plesec, Martin, Swissvale, Pa. Burglar apparatus. No. 978,396; Dec. 13; Sp. p. 2120; Gaz. vol. 161; p. 369.
Pletcher, Eugene M., and J. C. Gibbs, Philadelphia, Pa. Collar-button lock. No. 977,837; Dec. 6; Sp. p. 906; Gaz. vol. 161; p. 143.
Pletz, Arthur C., Cincinnati, Ohio. Change-speed and reverse-drive mechanism. No. 948,825; Feb. 8; Sp. p. 2224; Gaz. vol. 151; p. 376.
Plew, James E. (See Merckens and Herrick, assignors.)
Plew, James E. (See Sears, Clarence E., assignor.)
Plimpton, Harry C., assignor to Single Service Package Corporation of America, New York, N. Y. Container for incandescent mantles. No. 962,384; June 21; Sp. p. 4491; Gaz. vol. 155; p. 775.

Alphabetical list of patentees—Continued.

Plisnier, Albert, Jr., Stuttgart, Germany, assignor of one-half to A. Steinacker, Fiume, Austria-Hungary. Wireless telephony. No. 970,850; Sept. 20; Sp. p. 3675; Gaz. vol. 158; p. 628.
Ploeger, Ernst A., and J. Penrose, Chicago, Ill. Automatic relief-valve. No. 947,187; Jan. 18; Sp. p. 4805; Gaz. vol. 150; p. 792.
Ploen, Jochim, Manning, Iowa. Harrow attachment for planters. No. 968,976; Aug. 30; Sp. p. 6680; Gaz. vol. 157; p. 1163.
Plogmann, William, Davenport, Iowa. End-gate for wagons. No. 962,385; June 21; Sp. p. 4492; Gaz. vol. 155; p. 775.
Plopper, James A., assignor of one-half to C. E. Mack, Portland, Oreg. Automatic compressed-brick-making machine. No. 947,456; Jan. 25; Sp. p. 5458; Gaz. vol. 150; p. 913.
Plotner, Albert L., Boston, Mass. Cracker-box. No. 947,498; Jan. 25; Sp. p. 5584; Gaz. vol. 150; p. 928.
Plouff, Fred H., Boston, Mass. Feed-water regulator. No. 950,493; Mar. 1; Sp. p. 66; Gaz. vol. 152; p. 12.
Plough, Moses. (See Stricklin, Walter L., assignor.)
Plourde, Eugene, Paterson, N. J. Pencil-holder. No. 950,342; Feb. 22; Sp. p. 5430; Gaz. vol. 151; p. 952.
Plourde, Eugene, Paterson, N. J. Hat-pin. No. 953,225; Mar. 29; Sp. p. 5688; Gaz. vol. 152; p. 1033.
Plourde, Eugene, Paterson, N. J. Baby-carriage. No. 958,307; May 17; Sp. p. 4173; Gaz. vol. 154; p. 681.
Plowe, Edward. (See Herrick and Plowe.)
Plowman, Albert E., New York, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button-loop for overalls. No. 965,405; July 26; Sp. p. 5185; Gaz. vol. 156; p. 890.
Plue, William D., Rainier, Oreg. Combined steam-boiler and furnace. No. 953,921; Apr. 5; Sp. p. 472; Gaz. vol. 153; p. 86.
Plumb, Walter L., Glen Ridge, N. J. Disinfecting lamp or candle. No. 978,200; Dec. 13; Sp. p. 1702; Gaz. vol. 161; p. 299.
Plumb, William D., New York, N. Y. Telephone-muffler. No. 950,865; Mar. 1; Sp. p. 856; Gaz. vol. 152; p. 137.
Plumbing Specialty Company, The. (See Kenly, George T., assignor.)
Plume & Atwood Manufacturing Co., The. (See Andersen, Lauritz W., assignor.)
Plume & Atwood Manufacturing Company, The. (See Hayward, Edwin E., assignor.)
Plume & Atwood Manufacturing Company, The. (See Wirth, Charles E., assignor.)
Plumley, Charles W., Parkersburg, W. Va. Artificial tooth and crown. No. 963,648; July 5; Sp. p. 1374; Gaz. vol. 156; p. 213.
Plummer, Earl M., Marshalltown, Iowa. Adding-machine. No. 952,137; Mar. 15; Sp. p. 3390; Gaz. vol. 152; p. 610.
Plummer, Fred G., Washington, D. C. Hypsometer. No. 950,805; Mar. 1; Sp. p. 745; Gaz. vol. 152; p. 119.
Plummer, John T., Denver, Colo. Propelling mechanism for velocipedes. No. 970,109; Sept. 13; Sp. p. 2074; Gaz. vol. 158; p. 352.
Plumtree, Oliver L. (See Munn and Plumtree.)
Plunkett, Ambrose T. (See Gowing, Ernest T., assignor.)
Plunkett, Christopher F., assignor of one-fourth to O. W. Bohan, New York, N. Y. Siphon. No. 956,411; Apr. 26; Sp. p. 5900; Gaz. vol. 153; p. 1026.
Plunkett, Hugh E., Charlestown, Mass. Attachment for electric-lamp sockets. No. 957,371; May 10; Sp. p. 1886; Gaz. vol. 154; p. 328.
Plunkett, Hugh E., assignor to J. Barry, Boston, Mass. Switch-operating device for lamp-sockets. No. 979,693; Dec. 27; Sp. p. 4907; Gaz. vol. 161; p. 860.
Plunkett, Richard. (See Grant, Charles, assignor.)
Plutte, Frederick. (See Headland and Plutte.)
Plym, Francis J., Niles, Mich. Store-front construction. No. 955,103; Apr. 12; Sp. p. 3030; Gaz. vol. 153; p. 514.
Plym, Francis J., Kansas City, Mo. Store-front construction. No. 968,076; Aug. 23; Sp. p. 4767; Gaz. vol. 157; p. 829.
Pneumatic Nut Machine Company, The. (See Boma, John, assignor.)
Pneumatic Scale Corporation Limited. (See Doble, William H., assignor.)
Pneumatic Scale Corporation Limited. (See Joplin, William A., assignor.)
Pneumatic Scale Corporation Limited. (See Robinson, George A., assignor.)
Pneumatic Scale Corporation, Limited. (See Scales, William S., assignor.)
Pobanz, George W., Geneseo, Ill. Cultivator-plow. No. 960,194; May 31; Sp. p. 8154; Gaz. vol. 154; p. 1371.
Pochyla, Adolph A., Bartlett, and H. A. King, West, Tex., assignors of one-third to J. D. Pinkard and R. F. Cates, Bartlett, Tex. Vehicle-spring. No. 960,395; June 7; Sp. p. 327; Gaz. vol. 155; p. 54.
Pociosk, Martin J. (See Kuczyński, Jochan, assignor.)
Pocock, Henry, London, Ontario, Canada. Adjustable concrete-mold. No. 955,282; Apr. 19; Sp. p. 3418; Gaz. vol. 153; p. 608.
Pocock, Henry, London, Ontario, Canada. Building-block machine. No. 971,213; Sept. 27; Sp. p. 4423; Gaz. vol. 158; p. 775.
Podlešák, Henry J., Chicago, Ill., and T. E. Podlesak, Morristown, N. J. Inductor-generator for ignition purposes. No. 947,647; Jan. 25; Sp. p. 5893; Gaz. vol. 150; p. 978.
Podlešák, Henry J., Chicago, Ill., and T. E. Podlésak, Morristown, N. J. Inductor-generator for ignition purposes. No. 948,483; Feb. 8; Sp. p. 1482; Gaz. vol. 151; p. 262.
Podlesak, Tesla E. (See Podlešák, Henry J. and T. E.)
Podmore, John E., Jersey City, N. J., assignor to Consolidated Railway Industrial Straw Paper Company, New York, N. Y. Treating vegetable matter for separation of fiber therefrom. No. 953,287; Mar. 29; Sp. p. 5826; Gaz. vol. 152; p. 1053.
Poe, George, South Norfolk, assignor to Poe Invention Corporation, Norfolk, Va. Gas-generator. No. 978,641; Dec. 13; Sp. p. 2670; Gaz. vol. 161; p. 454.
Poe Invention Corporation. (See Poe, George, assignor.)
Poe, James C., Rosedale, Kans., assignor of one-half to C. M. Burdett and A. Champ, Kansas City, Mo. Ice-cleaner for trolley-poles. No. 967,051; Aug. 9; Sp. p. 2633; Gaz. vol. 157; p. 432.
Poe, James G., assignor of one-half to R. E. L. Saner, Dallas, Tex. Microtome attachment for microscopes. No. 979,333; Dec. 20; Sp. p. 4148; Gaz. vol. 161; p. 715.
Poeppel, Emil, Chicago, Ill. Match-box. No. 973,297; Oct. 18; Sp. p. 3935; Gaz. vol. 159; p. 674.
Poeppelmeier, George J., Dayton, Ohio. Door-stop. No. 965,537; July 26; Sp. p. 5504; Gaz. vol, 156; p. 937.
Poetsch, Gustav H., New York, N. Y. Pin setting and spotting device. No. 946,784; Jan. 18; Sp. p. 3961; Gaz. vol. 150; p. 658.
Poferl, Edward, St. Paul, Minn. Door-lock. No. 966,594; Aug. 9; Sp. p. 1636; Gaz. vol. 157; p. 279.
Poggensee, John E. (See Becker and Poggensee.)
Pogue, Henry W., Decatur, Ill. Spraying device for internal-combustion engines. No. 972,571; Oct. 11; Sp. p. 2319; Gaz. vol. 159; p. 397.
Pogue, Joseph W., Sierra Madre, Cal. Elevator mechanism. No. 974,914; Nov. 8; Sp. p. 1894; Gaz. vol. 160; p. 312.
Pogue, Steward A., Liberty Hill, Tex. Planter-shoe. No. 967,430; Aug. 16; Sp. p. 3416; Gaz. vol. 157; p. 589.
Pohl, Eduard, Honnef, Germany. Preparing mineral fertilizers. No. 952,278; Mar. 15; Sp. p. 3668; Gaz. vol. 152; p. 657.
Pohl, Edward, New York, N. Y. Lustering silk threads. No. 947,027; Jan. 18; Sp. p. 4512; Gaz. vol. 150; p. 743.
Pohl, Heinrich. (See Grüter and Pohl.)
Pohoralek, Johannes, New York, N. Y. Magazine-binder. No. 949,546; Feb. 15; Sp. p. 3704; Gaz. vol. 151; p. 644.
Poillon, George W., Chappaqua, N. Y., assignor of one-fourth to R. Halladay and M. S. Mackey, Englewood, N. J., and one-fourth to A. H. Dyett, New York, N. Y. Ice-cream freezer. No. 954,411; Apr. 5; Sp. p. 1514; Gaz. vol. 153; p. 251.
Poince, John W., Dayton, Ohio. Automatic leaf-turner for sheet-music. No. 969,494; Sept. 6; Sp. p. 726; Gaz. vol. 158; p. 115.
Poindexter, Alfred M., Red Bank, N. J., assignor of forty-nine one-hundredths to J. S. Galland, New York, N. Y. Safety-razor. No. 979,559; Dec. 27; Sp. p. 4632; Gaz. vol. 161; p. 813.
Poindexter, John W., assignor to Kentucky Hemp Brake Co., Cynthiana, Ky. Breaking and scutching machine. No. 962,783; June 28; Sp. p. 5375; Gaz. vol. 155; p. 939.
Pointer, William J., and J. A. Ramsey, Coweta, Okla. Portable shelf. No. 978,059; Dec. 6; Sp. p. 1371; Gaz. vol. 161; p. 220.
Pointon, Charles E. (See Pointon, John E. and C. E.)
Pointon, John E. and C. E., Peterborough, England. Machine for mixing and kneading dough and like plastic substances. No. 959,963; May 31; Sp. p. 7665; Gaz. vol. 154; p. 1293.
Poirier, Joseph A., Woonsocket, R. I. Railway-rail joint. No. 968,408; Aug. 23; Sp. p. 5474; Gaz. vol. 157; p. 943.
Poirier, Joseph A., Woonsocket, R. I. Nut-lock. No. 969,655; Sept. 6; Sp. p. 1076; Gaz. vol. 158; p. 172.
Poirier, Joseph A., Woonsocket, R. I. Blind-hinge. No. 970,746; Sept. 20; Sp. p. 3451; Gaz. vol. 158; p. 590.
Poirier, Peter, Matapedia, Quebec, Canada, assignor to A. J. McIntyre, Campbellton, Canada. Rail support and brace. No. 954,585; Apr. 12; Sp. p. 1897; Gaz. vol. 153; p. 338.
Poitras, Pierre J., and W. Caron, Rumford, Me. Grinding-machine. No. 961,010; June 7; Sp. p. 1553; Gaz. vol. 155; p. 260.
Poizot, Emile, Glos, near Lisieux, France, assignor to L. A. D. de Roussen, Condom, France. Manufacture of india-rubber for elastic tires of vehicle-wheels. No. 963,806; July 12; Sp. p. 1744; Gaz. vol. 156; p. 289.
Pokorny, Adolph, St. Paul, Minn. Stenciling apparatus. No. 956,730; May 3; Sp. p. 496; Gaz. vol. 154; p. 79.
Pokorny, Frank, New York, N. Y. Folding umbrella. No. 973,207; Oct. 18; Sp. p. 3765; Gaz. vol. 159; p. 643.
Polar Ice Machine Company. (See Bull, William B., assignor.)
Polar Ice Machine Company. (See Jewell, Omar H., assignor.)
Polar Star Company. (See Young, Elmer I., assignor.)
Polhemus, Will E., Battle Creek, Mich. Roof. No. 954,995; Apr. 12; Sp. p. 2832; Gaz. vol. 153; p. 481.

Alphabetical list of patentees—Continued.

Polk, Neal R., Greenville, Tex. Hoof-trimmer. No. 973,298; Oct. 18; Sp. p. 3936; Gaz. vol. 159; p. 674.
Polk, Ralph, Greenwood, Ind. Pulp-filter. No. 965,010; July 19; Sp. p. 4365; Gaz. vol. 156; p. 727.
Polk, William, East Liverpool, Ohio. Machine for brushing earthenware. No. 949,381; Feb. 15; Sp. p. 3382; Gaz. vol. 151; p. 590.
Pollak, Max, Waterbury, Conn. Cigarette-machine. No. 970,110; Sept. 13; Sp. p. 2076; Gaz. vol. 158; p. 353.
Pollak, Richard, Newark, N. J., assignor to Eck Dynamo and Motor Company. Guard. No. 967,971; Aug. 23; Sp. p. 4516; Gaz. vol. 157; p. 794.
Pollard-Alling Manufacturing Co., The. (See Grieser, Richard, assignor.)
Pollard, Charles R., Hartford, assignor to D. W. Williams, Glastonbury, Conn. Vacuum cleaning apparatus. No. 945,343; Jan. 4; Sp. p. 742; Gaz. vol. 150; p. 113.
Pollard, Edson T., Rutland, Vt. Polishing-head. No. 976,689; Nov. 22; Sp. p. 5726; Gaz. vol. 160; p. 970.
Pollard, Edward T., London, England, assignor to International Engineering Company, Limited, Edinburgh, Scotland. Packeting-machine. No. 956,167; Apr. 26; Sp. p. 5376; Gaz. vol. 153; p. 944.
Pollard, Edward T., London, England, assignor to International Engineering Company, Limited, Edinburgh, Scotland. Apparatus for delivering sheets of paper one by one from a pile. No. 958,764; May 24; Sp. p. 5092; Gaz. vol. 154; p. 861.
Pollard, Edwin, Douglas, Isle of Man. Slow-combustion stove. No. 969,117; Aug. 30; Sp. p. 6969; Gaz. vol. 157; p. 1213.
Pollard, Frédéric A., Paris, France. Apparatus for the automatic regulation of refrigerating-machines. No. 971,788; Oct. 4; Sp. p. 580; Gaz. vol. 159; p. 101.
Pollard, Harold C. (See Wade, James O., assignor.)
Pollard, Paxton, assignor of one-half to J. E. Ledbetter, Norfolk, Va. Holder for insectifuge. No. 958,678; May 17; Sp. p. 4906; Gaz. vol. 154; p. 806.
Pollay, George C., Ithaca, N. Y. Registering device for billiard-tables. No. 956,599; May 3; Sp. p. 198; Gaz. vol. 154; p. 34.
Polley, David, Vicksburg, Mich. Harrow. No. 970,747; Sept. 20; Sp. p. 3452; Gaz. vol. 158; p. 590.
Polleys, Charles G., Malden, assignor of one-half to F. C. Taft, Uxbridge, Mass. Shock-absorber for vehicles. No. 979,694; Dec. 27; Sp. p. 4908; Gaz. vol. 161; p. 861.
Polleys, Charles G., Malden, assignor of one-half to F. C. Taft, Uxbridge, Mass. Resilient apparatus for vehicles. No. 979,695; Dec. 27; Sp. p. 4909; Gaz. vol. 161; p. 861.
Pollock, Calvin J., Seattle, Wash. Change-delivery device. No. 964,549; July 19; Sp. p. 3320; Gaz. vol. 156; p. 568.
Pollock, Charles. (See Clark, George J., assignor.)
Pollock, Charles G. (See Turner and Pollock.)
Pollock, Charles V., Madison, Wis. Gas-mixer. No. 959,597; May 31; Sp. p. 6864; Gaz. vol. 154; p. 1168.
Pollock, Grant S., Pittsburg, Pa. Clothes-pin. No. 958,532; May 17; Sp. p. 4626; Gaz. vol. 154; p. 759.
Pollock, James, New York, assignor to C. W. Hunt Company, New Brighton, N. Y. Separator. No. 949,247; Feb. 15; Sp. p. 3065; Gaz. vol. 151; p. 543.
Pollock, James R., Jersey City, N. J., and W. Schreiber, New York, N. Y.; said Pollock assignor to said Schreiber. Cigar-cutter. No. 980,123; Dec. 27; Sp. p. 5876; Gaz. vol. 161; p. 1004.
Pollock, Oliver M., assignor of one-half to H. W. Yost, Springfield, Ohio. Cutting-tool. No. 966,356; Aug. 2; Sp. p. 1060; Gaz. vol. 157; p. 171.
Pollock, Thomas, Folkestone, assignor to The Dover Engineering Works, Limited, Dover, England. Stop-valve. No. 969,803; Sept. 13; Sp. p. 1428; Gaz. vol. 158; p. 248.
Pollon, James B., South West City, Mo. Draft-equalizer. No. 953,710; Apr. 5; Sp. p. 56; Gaz. vol. 153; p. 13.
Polo, Joseph B., Clear Lake, S. D., assignor of one-half to E. H. Paustian, Hardwich, Minn. Starting and stopping mechanism for internal-combustion engines. No. 957,372; May 10; Sp. p. 1887; Gaz. vol. 154; p. 328.
Polski, Roman F., St. Paul, Minn. Ticket-holder. No. 976,383; Nov. 22; Sp. p. 6028; Gaz. vol. 160; p. 1018.
Polson, George T., Beckville, Tex. Window-sash. No. 947,719; Jan. 25; Sp. p. 6015; Gaz. vol. 150; p. 1002.
Pomero, Paolo, Philadelphia, Pa. Violin-piano. No. 966,049; Aug. 2; Sp. p. 447; Gaz. vol. 157; p. 72.
Pomeroy, Edward L. (See Pomeroy, George W., assignor.)
Pomeroy, George W., assignor of one-half to E. L. Pomeroy, Logansport, Ind. Mail-bag catching and delivering apparatus. No. 947,648; Jan. 25; Sp. p. 5896; Gaz. vol. 150; p. 979.
Pomeroy, Harry D. (See Merritt and Pomeroy.)
Pomeroy, William D., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 957,249; May 10; Sp. p. 1620; Gaz. vol. 154; p. 286.
Pomphrey, John F., Brooklyn, N. Y. Envelop-moistener. No. 945,982; Jan. 11; Sp. p. 2169; Gaz. vol. 150; p. 361.
Ponarouse, George, San Francisco, assignor, by mesne assignments, to C. F. Degner, Los Angeles, Cal. Rotary locking collar-button. No. 960,698; June 7; Sp. p. 936; Gaz. vol. 155; p. 155.
Ponath, Edward F., St. Louis, Mo. Motor-driven hair-clipper. No. 973,696; Oct. 25; Sp. p. 4800; Gaz. vol 159; p. 834.
Pond, Edmund M., Rutland, Vt. Surgical bandage. No. 974,294; Nov. 1; Sp. p. 490; Gaz. vol. 160; p. 72.
Pond, Edmund M., Rutland, Vt. Surgical bandage. No. 974,295; Nov. 1; Sp. p. 492; Gaz. vol. 160; p. 72.
Pond, Edward C., Petersburg, Va., assignor of one-half to C. M. Patterson, White Plains, N. Y. Photographic meter-reader. No. 975,277; Nov. 8; Sp. p. 2706; Gaz. vol. 160; p. 438.
Pond, Edward C., Petersburg, Va., assignor of one-half to C. M. Patterson, White Plains, N. Y. Photographic meter-reader. No. 975,278; Nov. 8; Sp. p. 2709; Gaz. vol. 160; p. 438.
Pond, George W., Eau Claire, Wis. Jack for repair-shops. No. 946,067; Jan. 11; Sp. p. 2336; Gaz. vol. 150; p. 389.
Pond, Harry S., Chicago, Ill. Vending-machine. No. 959,598; May 31; Sp. p. 6865; Gaz. vol. 154; p. 1168.
Pond, Henry, Metz, Mo. Filter. No. 954,647; Apr. 12; Sp. p. 2043; Gaz. vol. 153; p. 359.
Pond, Linnaeus C., Los Angeles, Cal. Weeder. No. 972,404; Oct. 11; Sp. p. 1922; Gaz. vol. 159; p. 338.
Pond, Linnaeus C., Los Angeles, Cal., and G. C. Wagner, Denver, Colo. Intermittent grip device. No. 949,304; Feb. 15; Sp. p. 3190; Gaz. vol. 151; p. 563.
Pond, Samuel N. (See Partridge, Alwyn H., assignor.)
Ponstein, Isidore J., New Orleans, La. Music-leaf turner. No. 976,690; Nov. 22; Sp. p. 5728; Gaz. vol. 160; p. 970.
Pontén, Anders, Berkeley, Cal. Centrifugal machine for purifying liquids. No. 957,250; May 10; Sp. p. 1622; Gaz. vol. 154; p. 286.
Ponten, Anders, Berkeley, assignor of one-half to A. Johnson, Oakland, Cal. Antifrictional bearing. No. 954,464; Apr. 12; Sp. p. 1635; Gaz. vol. 153; p. 297.
Ponten, Anders, Berkeley, Cal., assignor of forty-five one-hundredths to J. D. Millar, Portland, Oreg. Centrifugal sluicing-machine. No. 980,001; Dec. 27; Sp. p. 5572; Gaz. vol. 161; p. 963.
Pontifex and Sons, H., *et al.* (See Stanley, Harry, assignor.)
Pontius, Joseph F., Hot Springs, Ark., assignor of one-half to P. J. Pontius, Long Prairie, Minn. Wrench. No. 951,025; Mar. 1; Sp. p. 1151; Gaz. vol. 152; p. 188.
Pontius, Peter J. (See Pontius, Joseph F., assignor.)
Pontius, William H., assignor of one-half to P. Weller, Chicago, Ill. Excavating-machine. No. 953,226; Mar. 29; Sp. p. 5689; Gaz. vol. 152; p. 1033.
Pool, Carl E., *et al.* (See Meyer and Young, assignors.)
Pool, Clark H. (See Goldstein and Pool.)
Pool, Clark H., New York, N. Y., assignor to International Electric Protection Company. Electrical signaling system. No. 977,219; Nov. 29; Sp. p. 6940; Gaz. vol. 160; p. 1179.
Pool, Francis W., Havre, Mont. Fish-plate chair for railway-rails. No. 967,666; Aug. 16; Sp. p. 3888; Gaz. vol. 157; p. 667.
Pool, Harry H., *et al.* (See Meyer and Young, assignors.)
Pool, Morris W., New York, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 947,257; Jan. 25; Sp. p. 4967; Gaz. vol. 150; p. 845.
Pool, Otto E., *et al.* (See Meyer and Young, assignors.)
Poole, Alfred W., Ozark, Ark. Worming-tool. No. 972,237; Oct. 11; Sp. p. 1593; Gaz. vol. 159; p. 280.
Poole Bros. (See Wilson, James R., assignor.)
Poole, Edward, Kersley, England. Loom-strap. No. 972,641; Oct. 11; Sp. p. 2475; Gaz. vol. 159; p. 421.
Poole, Ephriam B., Delmar, Ala. Wreck-preventer. No. 951,698; Mar. 8; Sp. p. 2491; Gaz. vol. 152; p. 433.
Poole, Ephriam B., Delmar, Ala. Headlight. No. 953,288; Mar. 29; Sp. p. 5827; Gaz. vol. 152; p. 1053.
Poole, Frederick P., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket. No. 965,743; July 26; Sp. p. 5925; Gaz. vol. 156; p. 1008.
Poole, Frederick P., and H. U. Badeau, assignors to The Bryant Electric Company, Bridgeport, Conn. Fuse. No. 945,594; Jan. 4; Sp. p. 1260; Gaz. vol. 150; p. 196.
Poole, George A. (See Cornell, David F., assignor.)
Poole, John H., Brockton, and A. D. Abbenzeller, Randolph, assignors, by mesne assignments, to Brockton Mowing Machine Cutter Bar Company, Brockton, Mass. Cutter-bar for mowing-machines. No. 953,711; Apr. 5; Sp. p. 56; Gaz vol. 153; p. 13.
Poole, John H., Brockton, and A. D. Abbenzeller, Randolph, assignors to Brockton Mowing Machine Cutter Bar Company, Brockton, Mass. Cutter-bar. No. 965,654; July 26; Sp. p. 5751; Gaz. vol. 156; p. 978.
Poole, John H., Brockton, and A. D. Abbenzeller, Randolph, assignors to Brockton Mowing Machine Cutter Bar Company, Brockton, Mass. Cutter-bar. No. 974,595; Nov. 1; Sp. p. 1184; Gaz. vol. 160; p. 181.
Poole, John H., Brockton, and A. D. Abbenzeller, Randolph, assignors to Brockton Mowing Machine Cutter Bar Company, Brockton, Mass. Cutter-bar. No. 974,707; Nov. 1; Sp. p. 1433; Gaz. vol. 160; p. 221.
Poole, Samuel S., Albany, N. Y. Flue-cleaner. No. 949,495; Feb. 15; Sp. p. 3595; Gaz. vol. 151; p. 626.
Pooler, Don C. (See Pooler, Earl and D. C.)
Pooler, Earl and D. C., Seattle, Wash; said D. C. Pooler assignor, by mesne assignments, of one-half to said Earl Pooler. Phonograph-disk-record cabinet. No. 980,124; Dec. 27; Sp. p. 5878; Gaz. vol. 161; p. 1004.

Alphabetical list of patentees—Continued.

Pooley Furniture Company. (See Wagner, William F., assignor.)
Pooley, Speero, Chicago, Ill. Confectionery machinery. No. 966,357; Aug. 2; Sp. p. 1063; Gaz. vol. 157; p. 171.
Poore, Alfred C., East Brownfield, Me. Egg-beater. No. 945,983; Jan. 11; Sp. p. 2171; Gaz. vol. 150; p. 361.
Poorman, John C., Summerhill, assignor of one-third to I. M. Oldham, Portage, Pa. Clothes-line reel. No. 972,238; Oct. 11; Sp. p. 1594; Gaz. vol. 159; p. 280.
Pope, Allan M., Fort Ethan Allen, Vt. Game. No. 969,804; Sept. 13; Sp. p. 1429; Gaz. vol. 158; p. 248.
Pope, Edwin L., Brockton, Mass. Rand-machine. No. 951,575; Mar. 8; Sp. p. 2255; Gaz. vol. 152; p. 392.
Pope, Frank, and J. Rogginger, Kankakee; said Rogginger assignor to Paramount Knitting Company, Chicago, Ill. Hosiery-drying frame. No. 961,644; June 14; Sp. p. 2900; Gaz. vol. 155; p. 502.
Pope, Frederick, Mount Pleasant, Ga., assignor to Southern Manufacturing Company, Pittsburg, Pa. Bath for extracting products from wood. No. 947,420; Jan. 25; Sp. p. 5381; Gaz. vol. 150; p. 902.
Pope, Frederick, New York, N. Y., assignor to Southern Manufacturing Company, Pittsburg, Pa. Extracting products from wood. No. 959,599; May 31; Sp. p. 6868; Gaz. vol. 154; p. 1169.
Pope, George S., Washington, D. C. Holder for safety-razor blades. No. 965,406; July 26; Sp. p. 5186; Gaz. vol. 156; p. 890.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial draft-gear. No. 947,258; Jan. 25; Sp. p. 4975; Gaz. vol. 150; p. 846.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-gear. No. 947,348; Jan. 25; Sp. p. 5217; Gaz. vol. 150; p. 879.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-gear. No. 947,349; Jan. 25; Sp. p. 5219; Gaz. vol. 150; p. 879.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial draft-gear. No. 947,756; Jan. 25; Sp. p. 6078; Gaz. vol. 150; p. 1014.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-gear. No. 947,757; Jan. 25; Sp. p. 6079; Gaz. vol. 150; p. 1014.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-gear. No. 969,562; Sept. 6; Sp. p. 884; Gaz. vol. 158; p. 140.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial-draft gear. No. 977,473; Dec. 6; Sp. p. 96; Gaz. vol. 161; p. 18.
Pope, M. J., *et al.* (See Johnson, Edwin E., assignor.)
Pope Manufacturing Company, The. (See Cooke, Frank W., assignor.)
Pope Manufacturing Company, The. (See Hubbell, Lindley D., assignor.)
Pope, Samuel E. (See Edgcombe, Robert L., assignor.)
Popenhagen, Joseph, Chicago, Ill. Letter-slot attachment. No. 965,225; July 26; Sp. p. 4796; Gaz. vol. 156; p. 829.
Popenhagen, Joseph, Chicago, Ill. Letter-slot attachment. No. 980,125; Dec. 27; Sp. p. 5880; Gaz. vol. 161; p. 1005.
Popp, Jonas L. T. (See Stöckel and Popp.)
Poppenhusen, Herman A., Chicago, Ill. Furnace. No. 953,396; Mar. 29; Sp. p. 6072; Gaz. vol. 152; p. 1091.
Poppenhusen, Herman A., Evanston, Ill. Furnace-grate. No. 961,528; June 14; Sp. p. 2660; Gaz. vol. 155; p. 463.
Poppenhusen, Herman A., Evanston, and J. Harrington, Riverside, Ill. Steam-boiler furnace. No. 964,053; July 12; Sp. p. 2265; Gaz. vol. 156; p. 373.
Poppenhusen, Herman A., Evanston, and J. Harrington, Riverside, Ill. Furnace. (Reissue.) No. 13,168; Nov. 15; Sp. p. 4498; Gaz. vol. 160; p. 759.
Porbeck, Otto, St. Louis, Mo. Grinding and separating apparatus. No. 946,864; Jan. 18; Sp. p. 4164; Gaz. vol. 150; p. 687.
Porn, Stephen L., Rugby, N. D., assignor of one-half to H. Luth, Duluth, Minn. Wagon-jack. No. 959,255; May 24; Sp. p. 6151; Gaz. vol. 154; p. 1028.
Portable Mirror Company. (See Birdwell, Russell J., assignor.)
Porteous, James, Fresno, Cal. Adjustable truck. No. 979,093; Dec. 20; Sp. p. 3613; Gaz. vol. 161; p. 631.
Porter, Albert B., deceased, (T. Porter, administratrix,) assignor to McMeen & Miller, Chicago, Ill. Identifiable cable conductor. No. 951,147; Mar. 8; Sp. p. 1387; Gaz. vol. 152; p. 252.
Porter, Albert M., Amsterdam, Mo. Lamp-burner. No. 976,289; Nov. 22; Sp. p. 4885; Gaz. vol. 160; p. 834.
Porter, Alonzo E., deceased, (M. L. Porter, administratrix,) Pompton Lakes, assignor of one-fourth to E. P. Searing, Jersey City, N. J. Fuse. No. 956,996; May 3; Sp. p. 1083; Gaz. vol. 154; p. 169.
Porter, Alonzo E., deceased, (M. L. Porter, administratrix,) Pompton Lakes, N. J., and E. P. Searing, New York, N. Y.; said Searing assignor of one-fourth to said Porter. Fuse-battery. No. 972,141; Oct. 4; Sp. p. 1355; Gaz. vol. 159; p. 228.
Porter, Alvin H. (See Haig and Porter.)
Porter, Arza, *et al.* (See Hales, William E., assignor.)
Porter, Benjamin F., New Brighton, Pa. Hoof-pad. No. 964,551; July 19; Sp. p. 3327; Gaz. vol. 156; p. 569.
Porter, Byron, Morgan, Utah. Seed-potato cutter. No. 972,911; Oct. 18; Sp. p. 3083; Gaz. vol. 159; p. 541.
Porter, Charles M., Fargo, N. D. Metal culvert. No. 971,558; Oct. 4; Sp. p. 106; Gaz. vol. 159; p. 20.
Porter, Cyrus H., Mattapoisett, Mass. Fly-killer. No. 975,570; Nov. 15; Sp. p. 3330; Gaz. vol. 160; p. 565.
Porter, Frederick W., Tampa, Fla. Dog-ear cutter. No. 964,182; July 12; Sp. p. 2519; Gaz. vol. 156; p. 414.
Porter, George, New Market, assignor of one-half to A. P. Bamberger, New Cumberland, Pa. Rail-fastener. No. 954,465; Apr. 12; Sp. p. 1636; Gaz. vol. 153; p. 297.
Porter, Johnston P. (See Hendryx, William T., assignor.)
Porter, Joseph Y., Jr., Knights Key, Fla. Boat-releasing hook. No. 965,655; July 26; Sp. p. 5752; Gaz. vol. 156; p. 978.
Porter, Lemuel, Chicago, Ill. Adjustable brake-head. No. 957,251; May 10; Sp. p. 1624; Gaz. vol. 154; p. 287.
Porter, Lemuel, assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-lever strut. No. 950,640; Mar. 1; Sp. p. 380; Gaz. vol. 152; p. 61.
Porter, Lemuel, and C. H. Williams, Jr., assignors to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 959,600; May 31; Sp. p. 6870; Gaz. vol. 154; p. 1169.
Porter, Louis N., assignor to The Rayo Incubator Company, Blair, Nebr. Incubator. No. 956,600; May 3; Sp. p. 201; Gaz. vol. 154; p. 35.
Porter, Mary L., administratrix. (See Porter, Alonzo E.)
Porter, Mary L., administratrix. (See Porter and Searing.)
Porter, Theresa, administratrix. (See Porter, Albert B.)
Porter, William A., Leipsic, Ohio. Parallel-ruler. No. 967,431; Aug. 16; Sp. p. 3417; Gaz. vol. 157; p. 589.
Porter, William E., and O. B. Thomas, Bisbee, Ariz.; said Porter assignor to said Thomas. Faucet. No. 961,011; June 7; Sp. p. 1554; Gaz. vol. 155; p. 260.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Watch-holding case. No. 947,936; Feb. 1; Sp. p. 338; Gaz. vol. 151; p. 54.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Watch-holding case. No. 947,937; Feb. 1; Sp. p. 339; Gaz. vol. 151; p. 54.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Regulator for watches. No. 948,652; Feb. 8; Sp. p. 1849; Gaz. vol. 151; p. 319.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Watch-holding case. No. 949,364; Feb. 15; Sp. p. 3328; Gaz. vol. 151; p. 583.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Intermittent-alarm clock. No. 952,212; Mar. 15; Sp. p. 3525; Gaz. vol. 152; p. 634.
Porter, Wilson E., assignor to New Haven Clock Company, New Haven, Conn. Alarm-clock. No. 956,824; May 3; Sp. p. 710; Gaz. vol. 154; p. 112.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Regulator for clocks. No. 975,793; Nov. 15; Sp. p. 3796; Gaz. vol. 160; p. 640.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Clock-bank. No. 977,126; Nov. 29; Sp. p. 6744; Gaz. vol. 160; p. 1148.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Keyless clock. No. 979,797; Dec. 27; Sp. p. 5166; Gaz. vol. 161; p. 895.
Porterfield, Clarence D., New York, N. Y. Rail-anchor. No. 968,797; Aug. 30; Sp. p. 6331; Gaz. vol. 157; p. 1104.
Porteus, James P., Kirkwood, Mo. Sweeping compound and making same. No. 958,007; May 17; Sp. p. 3303; Gaz. vol. 154; p. 575.
Portland Realty & Trust Company. (See Locke, William S., assignor.)
Porto, Frank, Baltimore, Md. Automatic signal device. No. 954,586; Apr. 12; Sp. p. 1898; Gaz. vol. 153; p. 338.
Portsche, George, Lincoln, Nebr. Animal-trap. No. 964,808; July 19; Sp. p. 3963; Gaz. vol. 156; p. 659.
Portsmouth Machine & Casting Company, The. (See Simpson and Puckett, assignors.)
Portteus, James G., Marion, assignor of one-half to T. Portteus, Indianapolis, Ind. Wrench. No. 964,313; July 12; Sp. p. 2787; Gaz. vol. 156; p. 460.
Portteus, James G., Marion, Ind., assignor of one-half to E. L. Adreon, Jr., St. Louis, Mo. Rail-anticreeper. No. 977,678; Dec. 6; Sp. p. 580; Gaz. vol. 161; p. 89.
Portteus, Theodore. (See Portteus, James G., assignor.)
Pöser, Hermann, Hermsdorf, near Berlin, Germany, assignor to Western Electric Company, Chicago, Ill. Relay. No. 966,764; Aug. 9; Sp. p. 2027; Gaz. vol. 157; p. 337.
Posey, James A., Waxahachie, Tex. Nut-lock. No. 961,371; June 14; Sp. p. 2329; Gaz. vol. 155; p. 411.
Posey, James A., assignor to J. F. Dunaway, Waxahachie, Tex. Switch-thrower for electric railways. No. 950,210; Feb. 22; Sp. p. 5167; Gaz. vol. 151; p. 906.
Posner, Charles H., New York, N. Y. Garment-form. No. 962,915; June 28; Sp. p. 5620; Gaz. vol. 155; p. 984.
Posselt, Anton, assignor to W. Roeder, Hanover, Germany. Moth-destroying composition. No. 979,704; Dec. 27; Sp. p. 4926; Gaz. vol. 161; p. 864.
Posson, Edward, Chicago, Ill. Car-ventilator. No. 955,543; Apr. 19; Sp. p. 3975; Gaz. vol. 153; p. 697.

Alphabetical list of patentees—Continued.

Posson, Edward, Chicago, Ill. Car-roof framework. No. 955,544; Apr. 19; Sp. p. 3978; Gaz. vol. 153; p. 698.
Posson, Edward, Chicago, Ill. Refrigerator-car-hatch closure. No. 957,252; May 10; Sp. p. 1627; Gaz. vol. 154; p. 287.
Posson, Edward, Chicago, Ill. Car-roof. No. 966,595; Aug. 9; Sp. p. 1638; Gaz. vol. 157; p. 279.
Posson, Edward, Chicago, Ill. Rail-joint. No. 966,949; Aug. 9; Sp. p. 2407; Gaz. vol. 157; p. 395.
Posson, Edward, Chicago, Ill. Equalizer for six-wheel trucks. No. 979,033; Dec. 20; Sp. p. 3492; Gaz. vol. 161; p. 611.
Posson, Edward, Chicago, Ill., assignor to Grain Belt Car Specialty Company. Grain-door. No. 969,405; Sept. 6; Sp. p. 541; Gaz. vol. 158; p. 87.
Posson, Edward, Chicago, Ill., assignor to Grain Belt Car Specialty Company. Grain-door. No. 977,042; Nov. 29; Sp. p. 6548; Gaz. vol. 160; p. 1118.
Post, Charles B., assignor to The Ward-Stilson Co., New London, Ohio. Lung-tester and detonating device. No. 955,682; Apr. 19; Sp. p. 4303; Gaz. vol. 153; p. 744.
Post, Ernst, Rummelsburg, near Berlin, Germany. Machine for polishing floors. No. 979,798; Dec 27; Sp. p. 5169; Gaz. vol. 161; p. 896.
Post, George W. (See Berry and Post.)
Post, Gerritt W. (See Bennett and Hunter, assignors.)
Post, Henry, Escanaba, Mich. Broom-handle. No. 968,518; Aug. 23; Sp. p. 5699; Gaz. vol. 157; p. 982.
Post Lock Register Co. (See Post, Truman W., assignor.)
Post, Parley C., Marshall, Tex. Monkey-wrench. No. 952,634; Mar. 22; Sp. p. 4434; Gaz. vol. 152; p. 808.
Post, Truman W., New York, N. Y., assignor, by mesne assignments, to Post Lock Register Co. Taximeter fraud-preventive device. No. 970,748; Sept. 20; Sp. p. 3454; Gaz. vol. 158; p. 591.
Post, Truman W., New York, N. Y., assignor, by mesne assignments, to Post Lock Register Co. Taximeter. No. 970,749; Sept. 20; Sp. p. 3456; Gaz. vol. 158; p. 591.
Postans, Arthur J., assignor to Adder Cash Register Syndicate Limited, London, England. Zeroising mechanism. No. 967,829; Aug. 16; Sp. p. 4223; Gaz. vol. 157; p. 722.
Posternak, Swigel, Paris, France, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. New glucosid and making same. No. 959,027; May 24; Sp. p. 5666; Gaz. vol. 154; p. 953.
Postlethwait, David B., Onondaga, Pa. Metallic tie and rail-fastener. No. 973,459; Oct. 18; Sp. p. 4282; Gaz. vol. 159; p. 729.
Poston, Burton C., Chillicothe, Ohio. Combined couch and bed. No. 960,195; May 31; Sp. p. 8155; Gaz. vol. 154; p. 1372.
Poteet, Albert J., Lakeland, Fla. Window-shade fixture. No. 956,731; May 3; Sp. p. 498; Gaz. vol. 154; p. 80.
Potter, Benjamin F. (See Karr and Potter.)
Potter, Bradford S., Evanston, Ill. Educational device. No. 947,064; Jan. 18; Sp. p. 4571; Gaz. vol. 150; p. 753.
Potter, Charles A., Lakeport, N. H. Presser-foot. No. 948,100; Feb. 1; Sp. p. 669; Gaz. vol. 151; p. 109.
Potter, Charles W. (See Staples and Potter.) (Reissue.)
Potter, Ellis M. (See Hartley, Harry C., assignor.)
Potter, Frank H. T., Chicago, Ill. Foundation for signal-poles and the like. No. 978,201; Dec. 13; Sp. p. 1703; Gaz. vol. 161; p. 299.
Potter, Harry J., Watertown, Mass. Coating apparatus. No. 972,239; Oct. 11; Sp. p. 1596; Gaz. vol. 159; p. 281.
Potter, Henry N., New Rochelle, N. Y., assignor, by mesne assignments, to Nernst Lamp Company, Pittsburg, Pa. Electric lamp. No. 952,995; Mar. 22; Sp. p. 5170; Gaz. vol. 152; p. 928.
Potter, Henry N., New Rochelle, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. Electric furnace with magnetically-rotated charge. No. 975,571; Nov. 15; Sp. p. 3332; Gaz. vol. 160; p. 566.
Potter, Henry N., New Rochelle, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. Electric furnace with magnetically-rotated charge. No. 975,794; Nov. 15; Sp. p. 3796; Gaz. vol. 160; p. 640.
Potter, Henry N., Pittsburg, Pa., assignor, by mesne assignments, to Cooper Hewitt Electric Company. System of lighting by gas or vapor electric lamps. No. 956,168; Apr. 26; Sp. p. 5380; Gaz. vol. 153; p. 944.
Potter, James B., Newport, R. I. Filing-cabinet. No. 968,977; Aug. 30; Sp. p. 6682; Gaz. vol. 157; p. 1163.
Potter, Joseph L., Indianapolis, Ind. Excavating and conveying apparatus. No. 970,750; Sept. 20; Sp. p. 3458; Gaz. vol. 158; p. 592.
Potter, Orlin, Portland, Oreg. Cable-hauling engine. No. 955,283; Apr. 19; Sp. p. 3423; Gaz. vol. 153; p. 608.
Potter, Robert J., Tuxedo Park, N. Y. Non-refillable bottle. No. 969,563; Sept. 6; Sp. p. 886; Gaz. vol. 158; p. 140.
Potter, Valda W., Oelwein, Iowa. Valve-actuating mechanism for gas-engines. No. 951,965; Mar. 15; Sp. p. 3063; Gaz. vol. 152; p. 553.
Potter, Walter G., Chicago, Ill. Proof-press. No. 957,373; May 10; Sp. p. 1893; Gaz. vol. 154; p. 329.
Potter, Washington M., Freedom, Pa. Pipe-wrench. No. 960,699; June 7; Sp. p. 937; Gaz. vol. 155; p. 156.
Potter, Washington M., Freedom, Pa. Wrench. No. 964,314; July 12; Sp. p. 2788; Gaz. vol. 156; p. 460.
Potter, William, New York, N. Y. Miter-box. No. 948,022; Feb. 1; Sp. p. 501; Gaz. vol. 151; p. 81.
Potter, William, New York, N. Y. Marking-gage. No. 960,039; May 31; Sp. p. 7864; Gaz. vol. 154; p. 1320.
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Terminal for electrical apparatus. No. 973,560; Oct. 25; Sp. p. 4505; Gaz. vol. 159; p. 786.
Potter, William M., Syracuse, N. Y. Saw-set. No. 968,686; Aug. 30; Sp. p. 6105; Gaz. vol. 157; p. 1067.
Potter, William M., assignor to E. C. Stearns & Co., Syracuse, N. Y. Lawn-mower. No. 956,601; May 3; Sp. p. 205; Gaz. vol. 154; p. 35.
Potter, Winfield S., New York, N. Y. Production of castings. No. 967,830; Aug. 16; Sp. p. 4226; Gaz. vol. 157; p. 723.
Potter, Winfield S., New York, N. Y. Manufacture of manganese steel. No. 968,601; Aug. 30; Sp. p. 5882; Gaz. vol. 157; p. 1037.
Potter, Winfield S., New York, N. Y. Manufacture of manganese steel. No. 968,602; Aug. 30; Sp. p. 5887; Gaz. vol. 157; p. 1038.
Potter, Winfield S., New York, N. Y. Treating manganese steel. No. 974,822; Nov. 8; Sp. p. 1679; Gaz. vol. 160; p. 281.
Potter, Winfield S., New York, N. Y. Preparing manganese-steel ingots for rolling. No. 975,370; Nov. 8; Sp. p. 2895; Gaz. vol. 160; p. 468.
Potter, Winfield S., New York, N. Y. Production, treating, and rolling of ingots of manganese steel. No. 975,371; Nov. 8; Sp. p. 2897; Gaz. vol. 160; p. 468.
Potterf, Orlystis M., Larned, Kans. Combination-garment. No. 973,299; Oct. 18; Sp. p. 3938; Gaz. vol. 159; p. 674.
Potthast, Walter H., Manning, Iowa. Carbureter. No. 975,635; Nov. 15; Sp. p. 3465; Gaz. vol. 160; p. 587.
Potts, Clyde, Morristown, N. J. System for the purification of sewage. No. 955,683; Apr. 19; Sp. p. 4306; Gaz. vol. 153; p. 745.
Potts, Clyde, Morristown, N. J. Apparatus for screening sewage and other flowing matter. No. 973,697; Oct. 25; Sp. p. 4802; Gaz. vol. 159; p. 835.
Potts, Howard B., Jackson township, Guernsey county, Ohio. Trolley. No. 972,240; Oct. 11; Sp. p. 1598; Gaz. vol. 159; p. 281.
Potts, John O. (See Hale and Potts.)
Potts, Louis M., Baltimore, Md., assignor to The Rowland Telegraphic Company. Apparatus for transmitting signals over telegraphic circuits. No. 952,944; Mar. 22; Sp. p. 5080; Gaz. vol. 152; p. 912.
Potts, Samuel, *et al.* (See Minnis, Henry M., assignor.)
Potts, Samuel W., New York, N. Y., assignor to The Veeder Manufacturing Company, Hartford, Conn. Register. No. 950,601; Mar. 1; Sp. p. 287; Gaz. vol. 152; p. 47.
Potwin, William S. (See Desmond, John, assignor.)
Poulin, Elzear, and H. Baril, La Patrie, Quebec, Canada. Curd-breaking apparatus. No. 964,935; July 19; Sp. p. 4213; Gaz. vol. 156; p. 703.
Poulsen, Valdemar, Copenhagen, Denmark. Receiver for wireless transmission of signals. No. 961,645; June 14; Sp. p. 2903; Gaz. vol. 155; p. 502.
Poulsen, Valdemar, Copenhagen, Denmark. Signaling by wireless telegraphy. No. 966,705; Aug. 9; Sp. p. 1845; Gaz. vol. 157; p. 316.
Poulson, Niels, Brooklyn, N. Y. Reversible window. No. 954,587; Apr. 12; Sp. p. 1900; Gaz. vol. 153; p. 338.
Poulson, Paul O., Brigham, Utah. Engine. No. 950,866; Mar. 1; Sp. p. 857; Gaz. vol. 152; p. 137.
Poulson, Paul O., Brigham, Utah. Valve mechanism for compound engines. No. 971,472; Sept. 27; Sp. p. 4902; Gaz. vol. 158; p. 858.
Poulter, Micajah L., Stockport, Iowa. Crumber. No. 969,187; Sept. 6; Sp. p. 95; Gaz. vol. 158; p. 15.
Poulter, Micajah L., Stockport, Iowa. Clutch. No. 970,548; Sept. 20; Sp. p. 3000; Gaz. vol. 158; p. 522.
Poultry Dust Bath Company. (See Lewis, Frank B., Jr., assignor.)
Powell, Albert T., Port Chester, N. Y. Washing-machine. No. 953,227; Mar. 29; Sp. p. 5693; Gaz. vol. 152; p. 1034.
Powell, Alfred H. (See Fullmer and Powell.)
Powell, Andrew, Uniontown, Pa. Coal-mining apparatus. No. 968,881; Aug. 30; Sp. p. 6497; Gaz. vol. 157; p. 1132.
Powell, Arthur, Stratford, Conn. Transferring-case for valuables. No. 967,667; Aug. 16; Sp. p. 3890; Gaz. vol. 157; p. 668.
Powell, Charles A. (See Johnston, James S., assignor.)
Powell, Charles F., Utica, Ohio. Shoe-shiner. No. 968,191; Aug. 23; Sp. p. 5031; Gaz. vol. 157; p. 867.
Powell, Edward, assignor to Powell Knitting Company, Philadelphia, Pa. Garter for half-hose. No. 945,595; Jan. 4; Sp. p. 1261; Gaz. vol. 150; p. 196.
Powell, Ernest A. (See Wright and Powell.)
Powell, Frank E., Des Moines, Iowa. Square and bevel. No. 960,196; May 31; Sp. p. 8158; Gaz. vol. 154; p. 1372.
Powell, George E. (See Gibbs, James M., assignor.)
Powell, George N. (See Haas, Fred W., assignor.)
Powell, Henry M., Omaha, Ga. Vehicle-shaft attachment. No. 967,052; Aug. 9; Sp. p. 2634; Gaz. vol. 157; p. 432.

Powell, Herbert E., East Oakland, Cal. Telegraphic apparatus. No. 953,550; Mar. 29; Sp. p. 6393; Gaz. vol. 152; p. 1145.
Powell Knitting Company. (See Powell, Edward, assignor.)
Powell, Norris D., Chester, Pa., assignor to Baldt Anchor Company. Anchor-storage. No. 954,882; Apr. 12; Sp. p. 2611; Gaz. vol. 153; p. 443.
Powell, Robert, assignor to The National Peeler Company, Cincinnati, Ohio. Peeler. No. 954,047; Apr. 5; Sp. p. 728; Gaz. vol. 153; p. 128.
Powell, Robert E. (See Boyce, Samuel F., assignor.)
Powell, Thomas F., Spokane, Wash. Hone-box. No. 977,838; Dec. 6; Sp. p. 907; Gaz. vol. 161; p. 143.
Powell, Ward B., Chant, Okla., assignor of one-half to W. W. Wingo, Hartford, Ark. Non-refillable bottle. No. 973,970; Oct. 25; Sp. p. 5347; Gaz. vol. 159 p. 930.
Powell, William H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 977,220; Nov. 29; Sp. p. 6943; Gaz. vol. 160; p. 1180.
Power, George S., Nutley, N. J. Front head for drill-cylinders. No. 974,823; Nov. 8; Sp. p. 1680; Gaz. vol. 160; p. 282.
Power, Lewis R., Paw Paw, Mich. Hand-planter. No. 950,303; Feb. 22; Sp. p. 5351; Gaz. vol. 151; p. 939.
Power, Michael J., Nekoosa, Wis. Machine for splitting wood. No. 946,705; Jan. 18; Sp. p. 3775; Gaz. vol. 150; p. 632.
Power and Mining Machinery Company. (See Bernhard, Richard, assignor.)
Power and Mining Machinery Company. (See Niedermeyer and Bernhard, assignors.)
Power and Mining Machinery Company. (See Wintzer, Rudolf, assignor.)
Power, Nicholas, New York, N. Y. Fireproof magazine for film-reels. No. 959,601; May 31; Sp. p. 6871; Gaz. vol. 154; p. 1169.
Power Specialty Company. (See Carroll, Bradish J., assignor.)
Powers Burglar Proof Sash Lock Company, The. (See Jones, Theodore N., assignor.)
Powers, Clarence E., Baltimore, Md., assignor to Schroeder Headlight Company, Evansville, Ind. Headlight-burner. No. 961,012; June 7; Sp. p. 1556; Gaz. vol. 155; p. 260.
Powers, Daniel L., Evans, Colo. Harrow. No. 974,427; Nov. 1; Sp. p. 788; Gaz. vol. 160; p. 118.
Powers, Donald J., New York, N. Y. Automatically-regulated heating system. No. 961,734; June 14; Sp. p. 3072; Gaz. vol. 155; p. 532.
Powers, Earle C., Orange, N. J., assignor to Autoforce Ventilating System, Boston, Mass. Chimney-cowl. No. 975,636; Nov. 15; Sp. p. 3467; Gaz. vol. 160; p. 587.
Powers, Eugene S., Merchantville, N. J. Producing ceramic wares. No. 950,954; Mar. 1; Sp. p. 1031; Gaz. vol. 152; p. 165.
Powers, George G., assignor to Union Wire Mattress Co., Chicago, Ill. Folding couch. No. 973,561; Oct. 25; Sp. p. 4506; Gaz. vol. 159; p. 787.
Powers, George G., assignor to Union Wire Mattress Co., Chicago, Ill. Folding couch. No. 973,562; Oct. 25; Sp. p. 4509; Gaz. vol. 159; p. 787.
Powers, Harry M., Baltimore, Md. Body-brace. No. 975,454; Nov. 15; Sp. p. 3068; Gaz. vol. 160; p. 524.
Powers, James M. (See Stephens, William A., assignor.)
Powers, Robert D., New York, N. Y., assignor to Union Clay Products Company. Composition of matter. No. 945,800; Jan. 11; Sp. p. 1760; Gaz. vol. 150; p. 295.
Powers, Robert D., New York, N. Y., assignor to Union Clay Products Company. Making compositions for coating. No. 945,801; Jan. 11; Sp. p. 1761; Gaz. vol. 150; p. 295.
Powers, Survilan, Bridgeport, Conn. Adjustable gun-stock. No. 959,069; May 24; Sp. p. 5774; Gaz. vol. 154; p. 967.
Powers, Timothy B., New York, N. Y., assignor, by mesne assignments, to The Telelectric Company, Pittsfield, Mass. Controlling mechanism for self-playing musical instruments and music-rolls therefor. (Reissue.) No. 13,124; June 28; Sp. p. 5836; Gaz. vol. 155; p. 1021.
Powers, William A., Topeka, Kans. Treating and storing water. No. 946,463; Jan. 11; Sp. p. 3282; Gaz. vol. 150; p. 527.
Powers, William T., Syracuse, N. Y. Valve-operating mechanism for steam-traps. No. 967,432; Aug. 16; Sp. p. 3417; Gaz. vol. 157; p. 589.
Powl, Elmer L., *et al.* (See Eynon, Harold G., assignor.)
Pownall, Henry D., Cincinnati, Ohio. Ice-machine. No. 959,602; May 31; Sp. p. 6873; Gaz. vol. 154; p. 1170.
Pownall, Henry D., Cincinnati, Ohio. Ice-machine. No. 964,936; July 19; Sp. p. 4214; Gaz. vol. 156; p. 703.
Poxson, Timothy D. (See Hasch, Frederick W., assignor.)
Prache, Charles, assignor to La Société d'Exploitation de Procédés Evaporatories, Système Prache et Bouillon, Paris, France. Evaporation-boiler with inclined tubes. No. 972,572; Oct. 11; Sp. p. 2320; Gaz. vol. 159; p. 397.
Practical Display Rack Company. (See Hughes, Frank J., assignor.)
Praeger, Ewald, San Antonio, Tex. Shaving appliance. No. 979,696; Dec. 27; Sp. p. 4910; Gaz. vol. 161; p. 861.
Praetz, John, New York, N. Y. Tag. No. 973,300; Oct. 18; Sp. p. 3939; Gaz. vol. 159; p. 674.
Prahl, Frederick A., New York, N. Y., assignor to Babcock Box Company. Knockdown bilge-barrel and constructing same. No. 961,159; June 14; Sp. p. 1850; Gaz. vol. 155; p. 335.
Prahl, Frederick A., New York, N. Y., assignor to Babcock Box Company. Knockdown bilge-barrel. No. 961,160; June 14; Sp. p. 1854; Gaz. vol. 155; p. 336.
Prahl, Frederick A., New York, N. Y., assignor to Babcock Box Company. Knockdown bilge-barrel. No. 961,161; June 14; Sp. p. 1857; Gaz. vol. 155; p. 336.
Prahl, Frederick A., New York, N. Y., assignor to National Wire Bound Box Company, South Bend, Ind. End for wire-bound boxes. No. 968,192; Aug. 23; Sp. p. 5032; Gaz. vol. 157; p. 867.
Prahm, Adolph F., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lamp or lantern burner. No. 965,597; July 26; Sp. p. 5627; Gaz. vol. 156; p. 958.
Prall, Edgar F., New York, N. Y. Gas-engine. No. 976,691; Nov. 22; Sp. p. 5732; Gaz. vol. 160; p. 971.
Prall, William H., Woodbridge, N. J. Stove attachment. No. 976,491; Nov. 22; Sp. p. 5336; Gaz. vol. 160; p. 904.
Prankard, Charles J., Jr., Troy, N. Y. Tweezers. No. 979,697; Dec 27; Sp. p. 4912; Gaz. vol. 161; p. 861.
Pranke, August, Halfway, Mich. Umbrella-support. No. 970,751; Sept. 20; Sp. p. 3462; Gaz. vol. 158; p. 593.
Praray, Charles A. M., deceased, Providence, R. I.; C. W. Praray, administrator, New Bedford, Mass. Reinforced wooden mill-floor construction. No. 968,512; Aug. 23; Sp. p. 5691; Gaz. vol. 157; p. 980.
Praray, Charles A. M., deceased, Providence, R. I.; C. W. Praray, administrator. Reinforced wooden mill-floor construction. No. 975,923; Nov. 15; Sp. p. 4062; Gaz. vol. 160; p. 684.
Praray, Charles W., administrator. (See Praray, Charles A. M.)
Praska, Joseph, Conway, N. D. Twine-feeding device for grain-binders. No. 950,955; Mar. 1; Sp. p. 1033; Gaz. vol. 152; p. 165.
Prather, Frank M., Los Angeles, Cal. Clutch and power-transmitting device. No. 966,858; Aug. 9; Sp. p. 2224; Gaz. vol. 157; p. 366.
Prather, George W. (See Droz, Edward J., assignor.)
Prather, Wilbur W., Adams Springs, Cal. Clutch. No. 965,325; July 26; Sp. p. 5021; Gaz. vol. 156; p. 864.
Pratt, Allison A., assignor of one-half to H. J. Hemmens, New York, N. Y. Safety-razor. No. 967,831; Aug. 16; Sp. p. 4231; Gaz. vol. 157; p. 723.
Pratt, Allison A., assignor of one-half to H. J. Hemmens, New York, N. Y. Stropping-machine. No. 967,832; Aug. 16; Sp. p. 4232; Gaz. vol. 157; p. 724.
Pratt, Allison A., assignor of one-half to H. J. Hemmens, New York, N. Y. Safety-razor. No. 969,724; Sept. 6; Sp. p. 1209; Gaz. vol. 158; p. 195.
Pratt, Alonzo C., Newark, N. J. Machine for making link mesh. No. 948,615; Feb. 8; Sp. p. 1764; Gaz. vol. 151; p. 305.
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Rack-rail locomotive system. No. 951,842; Mar. 15; Sp. p. 2810; Gaz. vol. 152; p. 512.
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Rack-rail locomotive. No. 956 732; May 3; Sp. p. 499; Gaz. vol. 154; p. 80.
Pratt, Charles R., Montclair, N. J. Elevator safety device. No. 958,679; May 17; Sp. p. 4907; Gaz. vol. 154; p. 806.
Pratt, Charles T., Frankfort, N. Y. Outlet or junction box. No. 946,646; Jan. 18; Sp. p. 3654; Gaz. vol. 150; p. 612.
Pratt, Charles T., assignor to The Pratt Chuck Company, Frankfort, N. Y. Outlet-box. No. 969,805; Sept. 13; Sp. p. 1432; Gaz. vol. 158; p. 249.
Pratt Chuck Company, The. (See Pratt, Charles T., assignor.)
Pratt, Edwin T. (See Huddle, John H. and C. D., assignors.)
Pratt, Ernest L., Litchfield, Conn. Blind-fastener. No. 971,789; Oct. 4; Sp. p. 584; Gaz. vol. 159; p. 102.
Pratt, James R., Denison, Tex. Headlight-reflector. No. 979,334; Dec. 20; Sp. p. 4150; Gaz. vol. 161; p. 715.
Pratt, James S., Los Angeles, Cal. Water-cooler for refrigerators. No. 958,890; May 24; Sp. p. 5412; Gaz. vol. 154; p. 907.
Pratt, Leslie R. (See Schuyler and Hyle, assignors.)
Pratt, Lewis M., assignor of one-half to O. Mann, Albuquerque, N. Mex. Brick-machine. No. 949,043; Feb. 15; Sp. p. 2671; Gaz. vol. 151; p. 476.
Pratt, Lucius S., Union Center, N. Y. Car-door hanger. No. 970,752; Sept. 20; Sp. p. 3463; Gaz. vol. 158; p. 593.
Pratt, Philip W. (See Foster and Pratt.)
Pratt, Philip W., Boston, Mass. Crutch-tip. No. 960,700; June 7; Sp. p. 938; Gaz. vol. 155; p. 156.
Pratt, Philip W., Boston, Mass. Wear-resisting and non-slipping tread. No. 962,719; June 28; Sp. p. 5251; Gaz. vol. 155; p. 916.
Pratt & Whitney Company. (See Goodrich, Clarence L., assignor.)
Pratt & Whitney Company. (See Grohmann, Carl L., assignor.)

Alphabetical list of patentees—Continued.

Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)
Pratt, William C., and A. J. Pates, New York, N. Y., assignors to Electric Installation Company of New York. Stamping and sealing device. No. 945,802; Jan. 11; Sp. p. 1762; Gaz. vol. 150; p. 295.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Recording device. No. 974,183; Nov. 1; Sp. p. 166; Gaz. vol. 160; p. 29.
Pratte, Charles A., assignor of one-third to C. J. Crews, Denver, Colo. Vacuum air-sander. No. 953,228; Mar. 29; Sp. p. 5694; Gaz. vol. 152; p. 1034.
Prébandier, Salvator, Neuchatel, Switzerland. Boiler. No. 976,912; Nov. 29; Sp. p. 6232; Gaz. vol. 160; p. 1072.
Precision Appliance Company. (See Hill, Christian C., assignor.)
Precision Appliance Company. (See Krotz, Alvaro S., assignor.)
Precision Glass Grinding Machine Company. (See Conradson, Conrad M., assignor.)
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 975,891; Nov. 15; Sp. p. 3992; Gaz. vol. 160; p. 673.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Fluid-pressure-operated tool. No. 978,484; Dec. 13; Sp. p. 2309; Gaz. vol. 161; p. 398.
Premier Last Company, The. (See Keil, Herman, assignor.)
Premium Glass Company, The. (See Nilson and Olson, assignors.)
Premium Register Company, The. (See Hudson, Robert F., assignor.)
Premo Specialty Manufacturing Company. (See Beavo, Joseph M., assignor.)
Prendergast, Edward, St. Louis, Mo. Street-valve and fire-plug box. No. 945,596; Jan. 4; Sp. p. 1262; Gaz. vol. 150; p. 196.
Prendergast, Edward, St. Louis, Mo. Box for street-valves, fire-plugs, and the like. No. 945,597; Jan. 4; Sp. p. 1263; Gaz. vol. 150; p. 197.
Prendergast, Frank P., Dagus Mines, Pa. Spring-wheel. No. 955,545; Apr. 19; Sp. p. 3979; Gaz. vol. 153; p. 698.
Prendergast, Jeffrey J., St. Louis, Mo. Excavating apparatus. No. 945,414; Jan. 4; Sp. p. 887; Gaz. vol. 150; p. 138.
Prendergast, Richard P., Galveston, Tex. Garment. No. 954,132; Apr. 5; Sp. p. 900; Gaz. vol. 153; p. 156.
Prenovich, Israel N., New York, N. Y. Railway-rail splice. No. 945,415; Jan. 4; Sp. p. 889; Gaz. vol. 150; p. 138.
Prenovich, Israel N., New York, N. Y. Railway-rail splice. No. 945,598; Jan. 4; Sp. p. 1264; Gaz. vol. 150; p. 197.
Prentice Brothers Company. (See Hendrickson, Fred K., assignor.)
Prentice, George H., Painesville, Ohio. Tamping-bar for tamping railway-ballast. No. 973,563; Oct. 25; Sp. p. 4511; Gaz. vol. 159; p. 787.
Prentice, George W., Providence, R. I. Garment-fastener. No. 963,390; July 5; Sp. p. 859; Gaz. vol. 156; p. 127.
Prentice, George W., Providence, R. I. Garment-fastening device. No. 963,391; July 5; Sp. p. 860; Gaz. vol. 156; p. 127.
Prentice, Vernette E. (See Conradson, Conrad M., assignor.)
Prentiss, Eliza R., *et al.*, executors. (See Prentiss, Henry S.)
Prentiss, George L., *et al.*, executors. (See Prentiss, Henry S.)
Prentiss, Henry S., deceased; G. L. Prentiss, New York, N. Y., and E. R. Prentiss, Elizabeth, N. J., executors. Watchman's time-detector. No. 973,383; Oct. 18; Sp. p. 4126; Gaz. vol. 159; p. 704.
Prenzel, Adam H., Halifax, Pa. Shoe-machine. No. 959,256; May 24; Sp. p. 6153; Gaz. vol. 154; p. 1028.
Prenzel, Adam H., Halifax, Pa. Machine for recessing shoe parts. No. 959,386; May 24; Sp. p. 6405; Gaz. vol. 154; p. 1071.
Prenzel, Adam H., Halifax, Pa. Making shoes. No. 960,234; May 31; Sp. p. 8235; Gaz. vol. 154; p. 1386.
Prenzel, Adam H., Halifax, Pa. Adjustable work support and gage for channeling-machines. No. 965,656; July 26; Sp. p. 5754; Gaz. vol. 156; p. 979.
Prenzel, Adam H., Halifax, Pa. Beveling-machine. No. 965,744; July 26; Sp. p. 5926; Gaz. vol. 156; p. 1009.
Prenzel, Adam H., Halifax, Pa. Shoe. No. 967,053; Aug. 9; Sp. p. 2635; Gaz. vol. 157; p. 433.
Prescott, Arthur T., East Orange, N. J., assignor to George H. Frothingham Co. Elevating machinery. No. 960,701; June 7; Sp. p. 940; Gaz. vol. 155; p. 156.
Prescott, Arthur T., East Orange, N. J., assignor to George H. Frothingham Co. Bearing. No. 978,202; Dec. 13; Sp. p. 1705; Gaz. vol. 161; p. 300.
Prescott, Arthur T., East Orange, N. J., assignor to George H. Frothingham Co. Counterbalancing mechanism. No. 980,126; Dec. 27; Sp. p. 5882; Gaz. vol. 161; p. 1005.
Prescott, Charles A., Brooklyn, N. Y. Automobile-heating appliance. No. 957,253; May 10; Sp. p. 1630; Gaz. vol. 154; p. 288.
Prescott, Charles F., Philadelphia, Pa. Valve-gear for engines. No. 973,137; Oct. 18; Sp. p. 3584; Gaz. vol. 159; p. 619.
Prescott, De Witt C., *et al.* (See Thurlow, Ira M., assignor.)
Prescott, De Witt C., Chicago, Ill. Rock-crusher. No. 964,183; July 12; Sp. p. 2520; Gaz. vol. 156; p. 415.
Prescott, Edwin, Arlington, Mass. Boring-machine. No. 957,090; May 3; Sp. p. 1271; Gaz. vol. 154; p. 201.
Prescott, Frank R., Meredith, N. H. Box-fastener. No. 971,790; Oct. 4; Sp. p. 586; Gaz. vol. 159; p. 102.
Prescott, George L., F. R. Ellis, and C. Jensen, Milwaukee, Wis. Fence-post. No. 972,912; Oct. 18; Sp. p. 3086; Gaz. vol. 159; p. 542.
Prescott, Loren L., *et al.* (See Thurlow, Ira M., assignor.)
Prescott, Robert W., and H. J. Whittier, Kansas City, Mo. Brooding and nesting coop. No. 952,355; Mar. 15; Sp. p. 3821; Gaz. vol. 152; p. 683.
Prescott, Sydney I., Camden, N. J. Transmitter for sound recording and reproducing machines. No. 965,326; July 26; Sp. p. 5024; Gaz. vol. 156; p. 865.
Prescott, Sydney I., Camden, N. J. Sound transmission. No. 965,327; July 26; Sp. p. 5026; Gaz. vol. 156; p. 865.
Prescott, Sydney I., Camden, N. J. Amplifier for sound-reproducing machines. No. 965,328; July 26; Sp. p. 5031; Gaz. vol. 156; p. 865.
Prescott, Sydney I., Camden, N. J. Sound-reproducing machine. No. 965,329; July 26; Sp. p. 5033; Gaz. vol. 156; p. 865.
Prescott, Sydney I., Camden, N. J. Sound-record-duplicating apparatus. No. 965,330; July 26; Sp. p. 5036; Gaz. vol. 156; p. 866.
Preslar, Charles F., Cincinnati, Ohio. Air-switch. No. 945,416; Jan. 4; Sp. p. 893; Gaz. vol. 150; p. 139.
Presner, Joseph. (See Shand, William, assignor.)
Pressed Prism Plate Glass Company. (See Wadsworth, Frank L. O., assignor.)
Pressed Steel Car Company. (See Bower, Jerome G., assignor.)
Pressed Steel Car Company. (See Koch, Felix, assignor.)
Pressed Steel Car Company. (See Lindström, Charles A., assignor.)
Pressed Steel Car Company. (See Rehlin, Charles J., assignor.)
Pressler, Adolf W., Keene, N. H. Child's rocking-chair. No. 947,579; Jan. 25; Sp. p. 5749; Gaz. vol. 150; p. 955.
Pressler, Adolf W., Keene, N. H. Animated toy. No. 953,289; Mar. 29; Sp. p. 5828; Gaz. vol. 152; p. 1053.
Pressler, Martin, Stamford, Conn. Spring-wheel. No. 957,574; May 10; Sp. p. 2289; Gaz. vol. 154; p. 396.
Presto Electrical Manufacturing Company, The. (See Shoenberg, Milton H., assignor.)
Preston, Albert F., East Boston, Mass. Pattern grading and cutting machine. No. 951,886; Mar. 15; Sp. p. 2908; Gaz. vol. 152; p. 527.
Preston, Albert M., Broxton, Ga. Dancing doll. No. 954,341; Apr. 5; Sp. p. 1376; Gaz. vol. 153; p. 228.
Preston, Charles F., La Grange, Ill. Vaporizing and mixing device. No. 948,402; Feb. 8; Sp. p. 1313; Gaz. vol. 151; p. 235.
Preston, J. Renwick. (See Fowler, Joseph C., assignor.)
Preston, John C., Sydney, New South Wales, Australia. Incandescent oil-lamp. No. 966,358; Aug. 2; Sp. p. 1067; Gaz. vol. 157; p. 172.
Preston, Lyman L., assignor of one-third to J. T. Smith, Dripping Springs, Tex. Well-tube holder. No. 957,091; May 3; Sp. p. 1274; Gaz. vol. 154; p. 202.
Preston, Myrta H., Winnipeg, Manitoba, Canada. Gasolene-indicator. No. 952,356; Mar. 15; Sp. p. 3822; Gaz. vol. 152; p. 683.
Preston, William A., and G. M. Duffie, Detroit, Mich. Centrifugal separator. No. 955,355; Apr. 19; Sp. p. 3583; Gaz. vol. 153; p. 633.
Preston, William H., New York, N. Y. Washing-machine. No. 957,475; May 10; Sp. p. 2093; Gaz. vol. 154; p. 363.
Preston, Worth W. (See Clifton and Preston.)
Prestwich, Frederic, Bolton, England. Cotton-picking machine. No. 959,603; May 31; Sp. p. 6875; Gaz. vol. 154; p. 1170.
Preuss, Frederick A., Madison county, Nebr. Fertilizer-distributer. No. 951,221; Mar. 8; Sp. p. 1526; Gaz. vol. 152; p. 275.
Prevear, George F., Leominster, Mass. Clasp. No. 953,348; Mar. 29; Sp. p. 5959; Gaz. vol. 152; p. 1074.
Prevost, Arthur J., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Locking mechanism. No. 975,455; Nov. 15; Sp. p. 3069; Gaz. vol. 160; p. 525.
Prevost, Arthur J., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Locking mechanism for emergency-doors. No. 975,456; Nov. 15; Sp. p. 3071; Gaz. vol. 160; p. 525.
Prevost, Arthur J., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Door-stop. No. 976,597; Nov. 22; Sp. p. 5561; Gaz. vol. 160; p. 940.
Pribil, Alexis R., Detroit, Mich., assignor to Automatic Platen Press Company, New York, N. Y. Sheet-manipulating mechanism. No. 968,978; Aug. 30; Sp. p. 6686; Gaz. vol. 157; p. 1164.
Pribnow, John F., Mellen, Wis. Shaper. No. 972,913; Oct. 18; Sp. p. 3087; Gaz. vol. 159; p. 542.
Priborsky, Julius, Passaic, N. J. Loom. No. 977,898; Dec. 6; Sp. p. 1036; Gaz. vol. 161; p. 165.

Alphabetical list of patentees—Continued.

Price, Albert M., Elgin, assignor to Zeno Manufacturing Company, Chicago, Ill. Sheet-gathering machine. No. 965,598; July 26; Sp. p. 5629; Gaz. vol. 156; p. 958.
Price, Albert R., Jeannette, Pa. Foundry plant. No. 951,576; Mar. 8; Sp. p. 2258; Gaz. vol. 152; p. 392.
Price, Alfred, Easton, Pa. Ice-chopper. No. 956,412; Apr. 26; Sp. p. 5902; Gaz. vol. 153; p. 1026.
Price Belt Automobile Company. (See Price, William C., assignor.)
Price Cereal Food Company, The. (See Wood, Fred G., assignor.)
Price, Charles A. (See Gillmor, Horatio G., assignor.)
Price, Charles P., Malden, Mass. Cement seat. No. 948,770; Feb. 8; Sp. p. 2113; Gaz. vol. 151; p. 359.
Price, Charles P., Malden, assignor to American Tar Company, Boston, Mass. Oil-distributing apparatus. No. 958,434; May 17; Sp. p. 4440; Gaz. vol. 154; p. 725.
Price, Charles P., Malden, assignor to American Tar Company, Boston, Mass. Oil-distributing apparatus. No. 980,002; Dec. 27; Sp. p. 5575; Gaz. vol. 161; p. 963.
Price, Cyrus W., Greenfield, Ohio. Wheel. No. 954,048; Apr. 5; Sp. p. 733; Gaz. vol. 153; p. 128.
Price, David W., Owensboro, Ky. Joint for artificial legs. No. 959,881; May 31; Sp. p. 7476; Gaz. vol. 154; p. 1263.
Price, Edward F., Lancaster, and T. E. Bennett, Philadelphia, assignors of one-third to J. F. Keller, Lancaster, Pa. Incinerating-plant. No. 958,308; May 17; Sp. p. 4174; Gaz. vol. 154; p. 681.
Price, Ernest, East Norwalk, Conn. Sprinkler. No. 979,199; Dec. 20; Sp. p. 3874; Gaz. vol. 161; p. 670.
Price, Eugene N. (See Schauer, Oliver V., assignor.)
Price, Evan C., and G. S. Shaw, assignors to The Indianapolis Switch and Frog Company, Springfield, Ohio. Railway-frog. No. 946,560; Jan. 18; Sp. p. 3478; Gaz. vol. 150; p. 585.
Price, Floyd A., Compton, Cal. Current-motor. No. 950,676; Mar. 1; Sp. p. 451; Gaz. vol. 152; p. 73.
Price, Frank G., Seattle, Wash. Machine for finishing lumber. No. 967,054; Aug. 9; Sp. p. 2636; Gaz. vol. 157; p. 433.
Price, Guy R., Detroit, Mich. Explosion-engine. No. 978,936; Dec. 20; Sp. p. 3253; Gaz. vol. 161; p. 577.
Price, Hamelin P., Waesteg, England. Bicycle-support. No. 945,284; Jan. 4; Sp. p. 579; Gaz. vol. 150; p. 95.
Price, Harry, Boston, Mass. Ironing-machine. No. 962,525; June 28; Sp. p. 4830; Gaz. vol. 155; p. 849.
Price, Harry, Boston, Mass. Folding support for hammocks. No. 970,549; Sept. 20; Sp. p. 3001; Gaz. vol. 158; p. 522.
Price, Jacob L., Fort Worth, Tex. Stationery for transmitting and recording bank collections. No. 966,359; Aug. 2; Sp. p. 1068; Gaz. vol. 157; p. 172.
Price, Jesse D. (See Mahanay and Price.)
Price, Max C., assignor to Independent Manufacturing Company, Muskegon, Mich. Hand-stamp. No. 958,533; May 17; Sp. p. 4627; Gaz. vol. 154; p. 760.
Price, Milbert F. (See Mahoney, George, assignor.)
Price, Monroe, St. Louis, Mo. Window-shade package. No. 945,417; Jan. 4; Sp. p. 896; Gaz. vol. 150; p. 139.
Price, Roscoe R., Tallahassee, Fla. Plow. No. 961,895; June 21; Sp. p. 3442; Gaz. vol. 155; p. 609.
Price, William C., assignor to Price Belt Automobile Company, Chicago, Ill. Motor-vehicle. No. 949,158; Feb. 15; Sp. p. 2900; Gaz. vol. 151; p. 514.
Price, William G., New Castle, Pa. Separator for elliptic springs. No. 960,396; June 7; Sp. p. 328; Gaz. vol. 155; p. 55.
Price, William G., New Castle, Pa. Brake-rigging. No. 967,433; Aug. 16; Sp. p. 3420; Gaz. vol. 157; p. 590.
Price, William H., San Francisco, Cal. Single-trigger mechanism for firearms. No. 956,825; May 3; Sp. p. 712; Gaz. vol. 154; p. 112.
Price, William K., New Castle, Pa. Slack-adjuster for car-brakes. No. 951,577; Mar. 8; Sp. p. 2260; Gaz. vol. 152; p. 392.
Price, William W., Dayton, Ohio. Clamping-ring for pipe-couplings. No. 953,799; Apr. 5; Sp. p. 234; Gaz. vol. 153; p. 42.
Prickett, Clinton E., assignor of one-half to R. D. Cool, Allegheny, Pa. Game apparatus. No. 976,492; Nov. 22; Sp. p. 5337; Gaz. vol. 160; p. 905.
Priddle, Arthur, San Francisco, Cal. Machine for slitting and flanging metal bars. No. 955,431; Apr. 19; Sp. p. 3746; Gaz. vol. 153; p. 658.
Priddle, Arthur, San Francisco, Cal. Fireproof construction. No. 960,197; May 31; Sp. p. 8160; Gaz. vol. 154; p. 1373.
Pride, John P. (See Bates and Pride.)
Pride, William H., Jr., Staples, Minn. Waste-valve for washbowls. No. 953,154; Mar. 29; Sp. p. 5543; Gaz. vol. 152; p. 1011.
Pridmore, Henry E., Chicago, Ill. Molding-machine. No. 950,558; Mar. 1; Sp. p. 206; Gaz. vol. 152; p. 34.
Pridmore, Henry E., Chicago, Ill. Molding-machine. No. 975,715; Nov. 15; Sp. p. 3639; Gaz. vol. 160; p. 613.
Priebe, Herman C., Chicago, Ill. Tank-car. No. 946,647; Jan. 18; Sp. p. 3655; Gaz. vol. 150; p. 612.
Priebe, Herman C., Chicago, Ill. Car-underframe. No. 946,865; Jan. 18; Sp. p. 4167; Gaz. vol. 150; p. 688.
Priebe, Herman C., Chicago, Ill. Car-underframe. No. 947,259; Jan. 25; Sp. p. 4976; Gaz. vol. 150; p. 846.
Priebe, Herman C., Chicago, Ill. Vehicle. No. 978,203; Dec. 13; Sp. p. 1707; Gaz. vol. 161; p. 300.
Priem, Paul, Heidenheim-on-the-Brenz, Germany. Paper-making machine. No. 978,779; Dec. 13; Sp. p. 2943; Gaz. vol. 161; p. 498.
Pries, Herman, Michigan City, Ind. Brake-shoe. No. 949,945; Feb. 22; Sp. p. 4562; Gaz. vol. 151; p. 815.
Pries, Herman, Michigan City, Ind. Metal underframing for cars. No. 965,934; Aug. 2; Sp. p. 181; Gaz. vol. 157; p. 31.
Priest, Alton D. (See Paine and Priest.)
Priest, Augustus F., Chicago, Ill. Locomotive smoke-stack. No. 968,882; Aug. 30; Sp. p. 6499; Gaz. vol. 157; p. 1132.
Priest, Curtis V. (See Felumlee, Cornelius S., assignor.)
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company. Journal-bearing. No. 950,054; Feb. 22; Sp. p. 4848; Gaz. vol. 151; p. 853.
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company. Railway-truck. No. 977,839; Dec. 6; Sp. p. 910; Gaz. vol. 161; p. 144.
Priest, George W., Newton, assignor to The Riverside Japannery, Inc., Mansfield, Mass. Apparatus for manufacturing varnish for coating leather. No. 971,071; Sept. 27; Sp. p. 4121; Gaz. vol. 158; p. 728.
Priest, James E., Chicago, Ill. Bench-vise. No. 951,201; Mar. 8; Sp. p. 1489; Gaz. vol. 152; p. 269.
Priestly, Frank C., Los Angeles, Cal. Engine-starter. No. 977,043; Nov. 29; Sp. p. 6551; Gaz. vol. 160; p. 1118.
Priestly, Frank C., and J. M. Aubery, Los Angeles, Cal. Differential axle device. No. 962,049; June 21; Sp. p. 3765; Gaz. vol. 155; p. 661.
Priestman, Albert, and H. Beddoes, Philadelphia, Pa. Apparatus for controlling the flow of liquids. No. 967,972; Aug. 23; Sp. p. 4518; Gaz. vol. 157; p. 794.
Priestman, Albert, and E. C. Moore, Philadelphia, Pa.; said Moore assignor to Merritt & Company. Apparatus for controlling the admission and relief of pressure to tanks and other appliances. No. 979,698; Dec. 27; Sp. p. 4914; Gaz. vol. 161; p. 862.
Prigge, John A., Jr., New York, N. Y. Key-ring. No. 977,221; Nov. 29; Sp. p. 6945; Gaz. vol. 160; p. 1180.
Prilliman, Daniel, assignor of one-fourth to F. O. Erwin, one-fourth to J. A. Motter, and one-fourth to A. J. Adams, Wichita, Kans. Hay-grinding machine. No. 954,540; Apr. 12; Sp. p. 1801; Gaz. vol. 153; p. 323.
Prilliman, William, Wichita, Kans. Adjustable frame for building concrete culverts, cisterns, and the like. No. 954,696; Apr. 12; Sp. p. 2142; Gaz. vol. 153; p. 375.
Primavesi, Frank J., assignor of one-fourth to G. H. Stein and one-fourth to H. Wulff, St. Louis, Mo. Candlestick. No. 955,992; Apr. 26; Sp. p. 4987; Gaz. vol. 153; p. 882.
Primbs, Maximillian, Reserve township, Allegheny county, Pa. Trick cigar-holder. No. 967,668; Aug. 16; Sp. p. 3896; Gaz. vol. 157; p. 668.
Primeau, Mederic, and G. McCullagh, Winnipeg, Manitoba, Canada. Gas-lighting appliance. No. 973,971; Oct. 25; Sp. p. 5348; Gaz. vol. 159; p. 930.
Primm, John M., assignor to The Primm Oil Engine Company, Vanburen, Ind. Crude-oil engine. No. 956,169; Apr. 26; Sp. p. 5382; Gaz. vol. 153; p. 944.
Primm Oil Engine Company, The. (See Primm, John M., assignor.)
Prims, Josef C., assignor to Prims Machinery Company, Battle Creek, Mich. Steam-cooker. No. 951,452; Mar. 8; Sp. p. 2021; Gaz. vol. 152; p. 350.
Prims Machinery Company. (See Prims, Josef C., assignor.)
Prince, Frederick W., and G. E. Biddell, San Francisco, Cal. Lecturer's reading-box. No. 963,939; July 12; Sp. p. 2019; Gaz. vol. 156; p. 332.
Prince, Thomas H., Detroit, Mich. Puncture-guard for pneumatic tires. No. 979,699; Dec. 27; Sp. p. 4918; Gaz. vol. 161; p. 862.
Prindle, Edwin J., New York, N. Y., assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Interchangeable-key lock. No. 953,641; Mar. 29; Sp. p. 6583; Gaz. vol. 152; p. 1176.
Prindle, Edwin J., New York, N. Y., assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Interchangeable-key lock. No. 972,241; Oct. 11; Sp. p. 1600; Gaz. vol. 159; p. 281.
Prindle, Edwin J., East Orange, N. J., assignor to Vita Electric Sign Company, New York, N. Y. Electric sign. No. 957,710; May 10; Sp. p. 2562; Gaz. vol. 154; p. 444.
Prindle, Edwin J., Washington, D. C., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Forming lasts. No. 968,409; Aug. 23; Sp. p. 5475; Gaz. vol. 157; p. 943.
Prindle, Harry A., Philadelphia, Pa. Centrifugal pump. No. 958,765; May 24; Sp. p. 5094; Gaz. vol. 154; p. 861.
Pring, John R., Shawnee, Okla. Oil-burner. No. 978,780; Dec. 13; Sp. p. 2944; Gaz. vol. 161; p. 498.
Pringle, George C., Florala, Miss. Turpentine-cup. No. 963,065; July 5; Sp. p. 75; Gaz. vol. 156; p. 15.
Pringle, George C., Biloxi, Miss. Support for turpentine-cups. No. 963,066; July 5; Sp. p. 78; Gaz. vol. 156; p. 15.

Alphabetical list of patentees—Continued.

Pringle, Percival J., Sidmouth, England. Brake for tramways and railways. No. 956,826; May 3; Sp. p. 715; Gaz. vol. 154; p. 113.
Pringle, Robert S., Bradford, Pa., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Mechanism for delivering a plurality of torpedoes simultaneously in a well. No. 949,778; Feb. 22; Sp. p. 4178; Gaz. vol. 151; p. 755.
Pringle, Robert W. (See Richards and Pringle.)
Pringle, William A., assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Printing mechanism. No. 946,808; Jan. 18; Sp. p. 4028; Gaz. vol. 150; p. 668.
Pringle, William A., assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Printing apparatus. No. 974,428; Nov. 1; Sp. p. 790; Gaz. vol. 160; p. 119.
Printers Cooperative Type Founders Co., The. (See Clements, William N., assignor.)
Printz, A. A., *et al.* (See Long, John R., assignor.)
Printz, Frederick M., and A. Frost, Chicago, Ill. Drafting appliance. No. 972,242; Oct. 11; Sp. p. 1602; Gaz. vol. 159; p. 282.
Prinz, Charles A., Chalco, Nebr. Automatic steering means for plow-engines. No. 952,017; Mar. 15; Sp. p. 3166; Gaz. vol. 152; p. 570.
Prinz, Faustin, Milwaukee, Wis. Grain separator and cleaner. No. 963,392; July 5; Sp. p. 862; Gaz. vol. 156; p. 127.
Prinz, Faustin, Milwaukee, Wis. Cleaning attachment for grain-separators. No. 975,995; Nov. 15; Sp. p. 4185; Gaz. vol. 160; p. 709.
Prinz, William H., Chicago, Ill. Malting apparatus. No. 958,821; May 24; Sp. p. 5233; Gaz. vol. 154; p. 882.
Prinz, William H., Chicago, Ill. Malting apparatus. No. 958,822; May 24; Sp. p. 5238; Gaz. vol. 154; p. 883.
Prinz, William H., Chicago, Ill. Malting apparatus. No. 958,823; May 24; Sp. p. 5240; Gaz. vol. 154; p. 883.
Prinz, William H., Oak Park, assignor of two-thirds to C. A. and G. Plamondon, Chicago, Ill. Malting apparatus. No. 958,824; May 24; Sp. p. 5243; Gaz. vol. 154; p. 883.
Prinz, William H., Oak Park, assignor of one-third to C. A. Plamondon and one-third to G. Plamondon, Chicago, Ill. Malting apparatus. No. 958,825; May 24; Sp. p. 5247; Gaz. vol. 154; p. 884.
Prinz, William H., Oak Park, assignor to Saladin Pneumatic Malting Construction Company, Chicago, Ill. Malt-house. No. 967,973; Aug. 23; Sp. p. 4523; Gaz. vol. 157; p. 794.
Prisk, John, Denver, Colo. Earth-hole-forming machine for weed-exterminating purposes. No. 971,791; Oct. 4; Sp. p. 588; Gaz. vol. 159; p. 103.
Pritchard, Albert R., Rochester, N. Y. Faucet. No. 958,826; May 24; Sp. p. 5249; Gaz. vol. 154; p. 884.
Pritchard, Albert R., Rochester, N. Y. Lamp. No. 963,321; July 5; Sp. p. 719; Gaz. vol. 156; p. 103.
Pritchard, Albert R., Rochester, N. Y. Oil-can. No. 973,564; Oct. 25; Sp. p. 4512; Gaz. vol. 159; p. 788.
Pritchard, Albert R., Rochester, N. Y. Oil-pot indicator. No. 979,799; Dec. 27; Sp. p. 5171; Gaz. vol. 161; p. 896.
Pritchard, George E., Lilly, N. C. Pea-harvester. No. 955,684; Apr. 19; Sp. p. 4311; Gaz. vol. 153; p. 745.
Pritchard, Robert, Bury, England. Drying can or cylinder. No. 967,434; Aug. 16; Sp. p. 3422; Gaz. vol. 157; p. 590.
Pritchard-Strong Company, The. (See Kline, David C., assignor.)
Pritchett, George W., Greensboro, N. C. Tamping mechanism. No. 968,410; Aug. 23; Sp. p. 5478; Gaz. vol. 157; p. 943.
Probert, Edwin R., Norwood, Ohio. Metallic window-sash. No. 973,384; Oct. 18; Sp. p. 4128; Gaz. vol. 159; p. 704.
Probst, Edward, Indianapolis, Ind. Laundry washing-machine. No. 962,526; June 28; Sp. p. 4831; Gaz. vol. 155; p. 850.
Probst, Emil, Berlin, Germany. Collapsible shoe. No. 958,534; May 17; Sp. p. 4628; Gaz. vol. 154; p. 760.
Probst, Karl, assignor of fifty-one one-hundredths to The Seagrave Company, Columbus, Ohio. Transmission-gearing. No. 968,495; Aug. 23; Sp. p. 5651; Gaz. vol. 157; p. 974.
Probst, William G. (See Marschuetz and Probst.)
Procner, Jan, Pablanice, Russia. Steam-turbine. No. 968,262; Aug. 23; Sp. p. 5177; Gaz. vol. 157; p. 892.
Procner, Jan, Pabianice, Russia. Turbine. No. 977,899; Dec. 6; Sp. p. 1039; Gaz. vol. 161; p. 165.
Proctor, Alfred W., New York, N. Y. Game apparatus. No. 957,254; May 10; Sp. p. 1631; Gaz. vol. 154; p. 288.
Proctor and Gamble Company, The. (See O'Brien, Edward J., assignor.)
Proctor, John C., Seattle, Wash. Wagon-box for hoisting and dumping grain, beets, &c. No. 978,336; Dec. 13; Sp. p. 1995; Gaz. vol. 161; p. 347.
Proctor, Joseph W., Beaumont, Tex. Fastening and releasing device for logging-car chains. No. 980,003; Dec. 27; Sp. p. 5579; Gaz. vol. 161; p. 964.
Proctor, Olin S., Denver, Colo. Electric rock-drill. No. 955,899; Apr. 26; Sp. p. 4801; Gaz. vol. 153; p. 849.
Proctor, William A., Saugus, Mass. School-desk support. No. 955,546; Apr. 19; Sp. p. 3981; Gaz. vol. 153; p. 699.
Producer Gas Utilities Company. (See Harvey, Charles A., assignor.)
Proehl, Edward J., New York, N. Y. Carbureter. No. 979,700; Dec. 27; Sp. p. 4919; Gaz. vol. 161; p. 862.
Proelss, Otto, Kansas City, Mo. Making concentrated sulfuric acid. No. 963,174; July 5; Sp. p. 373; Gaz. vol. 156; p. 52.
Proelss, Otto, Kansas City, Mo. Making sulfuric acid. No. 963,175; July 5; Sp. p. 375; Gaz. vol. 156; p. 53.
Proelss, Otto, Kansas City, Mo., and W. S. Hall, Argentine, Kans. Apparatus for concentrating sulfuric acid. No. 960,702; June 7; Sp. p. 944; Gaz. vol. 155; p. 157.
Progress Manufacturing Company, The. (See Kronauer, Max, assignor.)
Promenshenkel, Jake, and R. Freeman, Crestline, Ohio. Furnace. No. 973,879; Oct. 25; Sp. p. 5174; Gaz. vol. 159; p. 899.
Proper, William S., St. Marys, W. Va. Plastic mold. No. 968,798; Aug. 30; Sp. p. 6333; Gaz. vol. 157; p. 1104.
Propp, Herman, assignor of one-half to L. Kossel, Oshkosh, Wis. Outrigger for boats. No. 967,669; Aug. 16; Sp. p. 3897; Gaz. vol. 157; p. 668.
Proshinska, Franz J., Denver, Colo. Protecting device for strap-hinges. No. 954,883; Apr. 12; Sp. p. 2612; Gaz. vol. 153; p. 444.
Prosser, Charles S., assignor to Peerless Rubber Manufacturing Company, New York, N. Y. Conveyer-belt. No. 979,200; Dec. 20; Sp. p. 3875; Gaz. vol. 161; p. 670.
Prosser, John E., Bartlesville, assignor of one-half to R. E. Markham, Tulsa, Okla. Swivel-socket. No. 975,067; Nov. 8; Sp. p. 2241; Gaz. vol. 160; p. 365.
Prosser, William C., Ashley, Ind. Foot-guard for rail-frogs. No. 960,397; June 7; Sp. p. 329; Gaz. vol. 155; p. 55.
Proudfit, William S., Jr., Chicago, Ill. Bookbinding. No. 958,170; May 17; Sp. p. 3750; Gaz. vol. 154; p. 634.
Proudfit, William S., Jr., Chicago, Ill. Loose-leaf binder. No. 958,171; May 17; Sp. p. 3755; Gaz. vol. 154; p. 634.
Proulx, John B. (See Marengo, William E., assignor.)
Proutt, Frederick G., Memphis, Tenn. Electrically-actuated switch. No. 959,257; May 24; Sp. p. 6155; Gaz. vol. 154; p. 1029.
Prouty, Enoch, Pullman, Ill. Shock-absorber. No. 971,636; Oct. 4; Sp. p. 267; Gaz. vol. 159; p. 48.
Prouty, Theodore C., assignor to Wilcox Manufacturing Company, Aurora, Ill. Furniture. No. 948,377; Feb. 8; Sp. p. 1259; Gaz. vol. 151; p. 227.
Prouty, Theodore C., assignor to Wilcox Manufacturing Company, Aurora, Ill. Drawer for furniture. No. 948,378; Feb. 8; Sp. p. 1263; Gaz. vol. 151; p. 227.
Prouty, Theodore C., assignor to Wilcox Manufacturing Company, Aurora, Ill. Grindstone-frame. No. 951,578; Mar. 8; Sp. p. 2264; Gaz. vol. 152; p. 393.
Prouty, Theodore C., assignor to Wilcox Manufacturing Company, Aurora, Ill. Foot-power mechanism. No. 953,397; Mar. 29; Sp. p. 6075; Gaz. vol. 152; p. 1091.
Prouty, Theodore C., assignor to Wilcox Manufacturing Company, Aurora, Ill. Computing-scale. No. 978,204; Dec. 13; Sp. p. 1710; Gaz. vol. 161; p. 301.
Provandie, Herbert F., assignor of one-half to The Randall-Faichney Company, Boston, Mass. Spark-plug. No. 954,697; Apr. 12; Sp. p. 2143; Gaz. vol. 153; p. 375.
Provandie, Herbert F., assignor of one-half to The Randall-Faichney Company, Boston, Mass. Spark-plug. No. 968,687; Aug. 30; Sp. p. 6106; Gaz. vol. 157; p. 1068.
Providence Gas Motor Company. (See Wattles, Cyra B., assignor.)
Provost, Joseph A. H., Van Anda, Texada Island, British Columbia, Canada. Priming check-valve. No. 969,902; Sept. 13; Sp. p. 1640; Gaz. vol. 158; p. 282.
Provost, Peter, Milwaukee, Wis. Apparatus for drying and steaming grain. No. 971,559; Oct. 4; Sp. p. 108; Gaz. vol. 159; p. 21.
Provost, Peter E., Fisherville, Mass. Stop-motion for looms. No. 949,365; Feb. 15; Sp. p. 3329; Gaz. vol. 151; p. 583.
Provot, George, New York, N. Y. Motor-vehicle. No. 950,728; Mar. 1; Sp. p. 579; Gaz. vol. 152; p. 91.
Prowse, Cornelius J., Cambridge, Mass., assignor of one-half to W. B. Prowse, Charlottetown, Prince Edward Island, Canada. Sprue. No. 968,799; Aug. 30; Sp. p. 6335; Gaz. vol. 157; p. 1104.
Prowse, Waldron B. (See Prowse, Cornelius J., assignor.)
Proximity Manufacturing Company, The. (See Bangle and Hunter, assignors.)
Pruden, Henry B., *et al.* (See Longstreth, Charles B., assignor.)
Prudential Heating Company. (See Cripps, Alfred G., assignor.)
Prudhomme, Louis N., Bermuda, La. Machine for destroying cotton-boll weevils. No. 946,561; Jan. 18; Sp. p. 3481; Gaz. vol. 150; p. 585.
Pruefer, Walter H. (See Fischer and Pruefer.)
Pruett, William M., Greensboro, N. C., assignor of one-half to W. A. Byerly, Bridgewater, Va. Ice-making machine. No. 974,184; Nov. 1; Sp. p. 169; Gaz. vol. 160; p. 30.
Prufrock, William, St. Louis, Mo. Sofa-bed and the like. No. 952,635; Mar. 22; Sp. p. 4435; Gaz. vol. 152; p. 808.

Alphabetical list of patentees—Continued.

Pruitt, Norman, Washington, D. C. Damper. No. 969,188; Sept. 6; Sp. p. 96; Gaz. vol. 158; p. 16.
Pruyn, Marcellus, Florin, Cal. Weed-cutter. No. 949,597; Feb. 15; Sp. p. 3794; Gaz. vol. 151; p. 660.
Pruyn, William H., Jr., Chicago, Ill. Concrete railway-tie. No. 955,547; Apr. 19; Sp. p. 3983; Gaz. vol. 153; p. 699.
Pryor, Edwin E. (See Adams, Harry A., assignor.)
Pryor, Joseph H., New York, N. Y. Water-closet hinge connection. No. 976,395; Nov. 22; Sp. p. 5135; Gaz. vol. 160; p. 870.
Pryor, Thomas F., Jr., Newark, N. J. Cigar-tip cutter. No. 957,575; May 10; Sp. p. 2290; Gaz. vol. 154; p. 397.
Psareas, Georje, and N. Parkas, Holyoke, Mass. Steam-engine. No. 971,402; Sept. 27; Sp. p. 4779; Gaz. vol. 158; p. 836.
Psarski, John T., Cleveland, Ohio. Dyeing-machine. No. 955,993; Apr. 26; Sp. p. 4988; Gaz. vol. 153; p. 882.
Psilander, Charles A., and T. S. Scott, Pittsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 956,543; May 3; Sp. p. 82; Gaz. vol. 154; p. 15.
Public Safety Company. (See Lumley and Hillman, assignors.)
Puckett, Lawrence P., Midville, Ga. Tie-spacing jack. No. 960,398; June 7; Sp. p. 331; Gaz. vol. 155; p. 55.
Puckett, William D. (See Simpson and Puckett.)
Puderbaugh, David C., Huntingdon, Pa. Apparatus for measuring liquids. No. 974,915; Nov. 8; Sp. p. 1897; Gaz. vol. 160; p. 313.
Puffenberger, Henry B., Tiffin, Ohio. Spring-scale weighing device. No. 958,172; May 17; Sp. p. 3759; Gaz. vol. 154; p. 635.
Puffer Manufacturing Company. (See Murphy, Edward E., assignor.)
Pugh, Harry H., Alliston, Ontario, Canada. Level device for braces, &c. No. 949,842; Feb. 22; Sp. p. 4313; Gaz. vol. 151; p. 777.
Pugh, Job T., Philadelphia, Pa. Auger-bit. No. 967,055; Aug. 9; Sp. p. 2638; Gaz. vol. 157; p. 433.
Pugh, John, *et al.* (See Wickersham, Benjamin F., assignor.)
Pugh, Willeston C., assignor of one-half to A. Gamblee, Seattle, Wash. Time-switch. No. 966,118; Aug. 2; Sp. p. 577; Gaz. vol. 157; p. 94.
Pugh, William, Good Hope, Ill. Concrete vault. No. 964,184; July 12; Sp. p. 2521; Gaz. vol. 156; p. 415.
Pugh, William H., and J. A. Etzold, Detroit, Mich. Adjustable reamer. No. 976,212; Nov. 22; Sp. p. 4677; Gaz. vol. 160; p. 806.
Pugibet, Ernest, assignor to El Buen Tono, S. A., Mexico, Mexico. Cigarette machinery. No. 973,698; Oct. 25; Sp. p. 4806; Gaz. vol. 159; p. 835.
Puha, Victor, Newark, N. J. Alarm. No. 966,950; Aug. 9; Sp. p. 2408; Gaz. vol. 157; p. 396.
Pukerud, Thomas S., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-pressure regulator. No. 967,234; Aug. 16; Sp. p. 3014; Gaz. vol. 157; p. 521.
Puley, John M., Cleveland, Ohio. Folding box. No. 953,761; Apr. 5; Sp. p. 159; Gaz. vol. 153; p. 30.
Pullen, Leon W., Camden, N. J., assignor, by mesne assignments, to Waldron Clark Manufacturing Company. Electric-arc lamp. No. 958,827; May 24; Sp. p. 5250; Gaz. vol. 154; p. 884.
Pullen, Leon W., Camden, N. J., assignor, by mesne assignments, to Waldron Clark Manufacturing Company. Arc-lamp. No. 958,828; May 24; Sp. p. 5252; Gaz. vol. 154; p. 885.
Puller, Phillis, *et al.* (See Mason, Albert, assignor.)
Pulliam, Oswald S., Pittsburg, Pa. Body-bolster. No. 956,997; May 3; Sp. p. 1085; Gaz. vol. 154; p. 170.
Pullman Company, The. (See Berg, Lars J., assignor.)
Pullman Company, The. (See Dunbar, Thomas, assignor.)
Pullman Company, The. (See Schneider, Max M., assignor.)
Pulsifer, John R., Rochester, N. Y., assignor, by mesne assignments, to Empire Paper Company, Portland, Me. Coating-machine. No. 956,602; May 3; Sp. p. 206; Gaz. vol. 154; p. 36.
Pulsometer Engineering Company, The. (See Adcock, Edward A., assignor.)
Pulver, Walter B., Jersey City, N. J. Check-controlled vending-machine. No. 945,488; Jan. 4; Sp. p. 1048; Gaz. vol. 150; p. 161.
Pulver, Willis D., *et al.* (See England, Arthur E., assignor.)
Pulverized Manure Company, The. (See Hoskins, William, assignor.)
Pumphrey, Clarence H. (See Pixley and Bush, assignors.)
Pumphrey, Walter H., New York, N. Y. Hose-supporter clasp. No. 965,935; Aug. 2; Sp. p. 182; Gaz. vol. 157; p. 31.
Punshon, Thomas, Jr., *et al.* (See O'Brien, Vincent J., assignor.)
Punsky, Carl F., Valparaiso, Ind. Leather-working tool. No. 969,806; Sept. 13; Sp. p. 1433; Gaz. vol. 158; p. 249.
Pura, John A., Gonzales, Cal. Mowing-machine. No. 959,882; May 31; Sp. p. 7477; Gaz. vol. 154; p. 1263.
Purcell, Lee B., U. S. Marine Corps. Megaphone. No. 958,680; May 17; Sp. p. 4911; Gaz. vol. 154; p. 806.
Purcell, Lee B., U. S. Marine Corps. Blank cartridge. No. 965,745; July 26; Sp. p. 5928; Gaz. vol. 156; p. 1009.
Purcell, Thomas, Roanoke, Va. Cushion-tire. No. 969,077; Aug. 30; Sp. p. 6887; Gaz. vol. 157; p. 1199.
Purcell, William F., Brooklyn, N. Y. Packing for fluid-engines. No. 973,972; Oct. 25; Sp. p. 5350; Gaz. vol. 159; p. 931.
Purdey, Obadiah A. (See Jones, William E., assignor.)
Purdey, Obadiah A. (See McFarlane, John, assignor.)
Purdham, Fountain T., Battle Creek, Mich. Lock. No. 973,301; Oct. 18; Sp. p. 3941; Gaz. vol. 159; p. 675.
Purdy, Elisha F., and P. J. Speicher, Urbana, Ind. Potato-sorting machine. No. 952,213; Mar. 15; Sp. p. 3528; Gaz. vol. 152; p. 635.
Purdy, Frederick, Chicago, Ill. Time-stamp. No. 952,577; Mar. 22; Sp. p. 4296; Gaz. vol. 152; p. 787.
Purdy, Frederick, Kenosha, Wis., assignor of one-half to F. Bain, La Grange, Ill. Engine indicating apparatus. No. 949,129; Feb. 15; Sp. p. 2846; Gaz. vol. 151; p. 503.
Purdy, Frederick, assignor to T. B. Jeffery, deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Means for facilitating the starting of internal-combustion engines. No. 961,077; June 7; Sp. p. 1697; Gaz. vol. 155; p. 282.
Purdy, Frederick, assignor to T. B. Jeffery, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery executors of said T. B. Jeffery, deceased. Apparatus for mixing and containing liquids. No. 963,322; July 5; Sp. p. 720; Gaz. vol. 156; p. 104.
Purdy, Frederick, assignor to T. B. Jeffery, deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Apparatus for mixing and containing liquids. No. 972,243; Oct. 11; Sp. p. 1603; Gaz. vol. 159; p. 282.
Purdy, Frederick, Kenosha, Wis., assignor, by mesne assignments, to K. E., C. T., and H. W. Jeffery, executors of Thomas B. Jeffery, deceased. Means for facilitating the starting of internal-combustion engines. No. 976,493; Nov. 22; Sp. p. 5338; Gaz. vol. 160; p. 905.
Purdy, John H., Chicago, Ill. Lamp. No. 959,804; May 31; Sp. p. 7303; Gaz. vol. 154; p. 1237.
Pure Food Process Company, The. (See Schmitt, Edward D., assignor.)
Purfurst, Lewis, Boston, Mass., assignor, by mesne assignments, to Standard Hygienic Cooler Company, New York, N. Y. Liquid-cooling coil. No. 967,974; Aug. 23; Sp. p. 4526; Gaz. vol. 157; p. 795.
Puritan Manufacturing Company. (See Clarke, Charles E., assignor.)
Puritan Manufacturing Company. (See Putnam and Livingston, assignors.)
Purkitt, Claude F. (See Bailey and Purkitt.)
Pursehouse, Joe, Streater, Ill. Polishing-machine. No. 961,529; June 14; Sp. p. 2664; Gaz. vol. 155; p. 463.
Purser, Edward T., San Francisco, Cal., assignor to Endless Chain Saw Co. Tooth and link for chain saws. No. 945,599; Jan. 4; Sp. p. 1268; Gaz. vol. 150; p. 198.
Purser, Edward T., San Francisco, Cal., assignor to Endless Chain Saw Co. Attachment for endless chain saws. No. 945,600; Jan. 4; Sp. p. 1269; Gaz. vol. 150; p. 198.
Purser, Robert S. (See Cassedy and Purser.)
Purtell, Edward J. (See Panyard, Thomas A., assignor.)
Purves, Edward W., Chicago, Ill. Fire-hydrant coupling. No. 959,258; May 24; Sp. p. 6157; Gaz. vol. 154; p. 1029.
Purves, Edward W., Chicago, Ill. Boot-black stand. No. 970,265; Sept. 13; Sp. p. 2414; Gaz. vol. 158; p. 407.
Purvis, James G. (See Purvis, John B. and J. G.)
Purvis, John B. and J. G., Detroit, Mich. Lubricator. No. 946,580; Jan. 18; Sp. p. 3509; Gaz. vol. 150; p. 591.
Purvis, William. (See Welsh and Purvis.)
Puscheck, Walter H., *et al.* (See Gielow, John, assignor.)
Pushee, George D., Weston, Mass. Apparatus for making brushes. No. 957,255; May 10; Sp. p. 1633; Gaz. vol. 154; p. 288.
Pushee, George D., Weston, Mass. Brush. No. 960,582; June 7; Sp. p. 703; Gaz. vol. 155; p. 116.
Pusterla, Attilio, Bathbeach, assignor of one-half to S. Schenkein, New York, N. Y. Transmission mechanism. No. 950,055; Feb. 22; Sp. p. 4850; Gaz. vol. 151; p. 853.
Puterbaugh, John W., San Jose, Cal. Chalk-holder. No. 953,229; Mar. 29; Sp. p. 5698; Gaz. vol. 152; p. 1034.
Putman, Alice, Chicago, Ill. Hand knitting or weaving device. No. 957,711; May 10; Sp. p. 2566; Gaz. vol. 154; p. 444.
Putman, John, Paris, Ill. Rotary engine. No. 976,913; Nov. 29; Sp. p. 6233; Gaz. vol. 160; p. 1072.
Putnam, Clesson W. (See Perkins, Stanley, Putnam, and Montgomery.)
Putnam, Clesson W., assignor to B. F. Perkins and Son, Incorporated, Holyoke, Mass. Trolley-wheel. No. 947,758; Jan. 25; Sp. p. 6080; Gaz. vol. 150; p. 1014.
Putnam, Clesson W., assignor to B. F. Perkins and Son, Incorporated, Holyoke, Mass. Trolley-wheel. No. 947,759; Jan. 25; Sp. p. 6081; Gaz. vol. 150; p. 1015.
Putnam Foundry and Machine Company. (See Rich, Walter W., assignor.)
Putnam, Fred A., Melrose, and L. L. Livingston, Abington, assignors to Puritan Manufacturing Company, Boston, Mass. Sewing-machine. No. 970,550; Sept. 20; Sp. p. 3003; Gaz. vol. 158; p. 523.
Putnam, Henry S., New York, N. Y. Car. No. 947,520; Jan. 25; Sp. p. 5629; Gaz. vol. 150; p. 935.
Putnam, Israel, Elmira, N. Y. Incubator. No. 978,205; Dec. 13; Sp. p. 1714; Gaz. vol. 161; p. 301.

Alphabetical list of patentees—Continued.

Putnam, John P., Boston, Mass. Water-seal trap. No. 978,485; Dec. 13; Sp. p. 2311; Gaz. vol. 161; p. 398.
Putnam, Joseph W., Grand Rapids, Mich. Folding box. No. 973,068; Oct. 18; Sp. p. 3435; Gaz. vol. 159; p. 595.
Putnam, Mary V., New Orleans, La. Spoon. No. 972,244; Oct. 11; Sp. p. 1606; Gaz. vol. 159; p. 282.
Putnam, Samuel J. (See Ainsworth, Putnam, and Edstrom.)
Putnam, Theodore A. B., New York, assignor of one-fourth to C. F. Tibbals, Brooklyn, N. Y. Frameless spring-bed. No. 959,164; May 24; Sp. p. 5970; Gaz. vol. 154; p. 998.
Putt, Gilford L., Indiana, Pa. Cider-mill. No. 965,486; July 26; Sp. p. 5364; Gaz. vol. 156; p. 918.
Pyeatt, Samuel T., Canehill, Ark. Car-axle. No. 960,399; June 7; Sp. p. 332; Gaz. vol. 155; p. 55.
Pye, William, Wakefield, and L. D. Nourse, Brookline, Mass. Casket-case. No. 976,213; Nov. 22; Sp. p. 4679; Gaz. vol. 160; p. 806.
Pyke, John A., assignor to F. H. and J. F. Brightman, Brockville, Ontario, Canada. Device for automatically draining bilge-water and other refuse from boats while in motion. No. 965,011; July 19; Sp. p. 4367; Gaz. vol. 156; p. 728.
Pyle, George W., Geneva, Ind. Metallic lath. No. 966,119; Aug. 2; Sp. p. 579; Gaz. vol. 157; p. 95.
Pyles, John W. (See Bellows, Willis J., assignor.)
Pyper, George R., Salt Lake City, Utah. Massage apparatus. No. 958,939; May 24; Sp. p. 5500; Gaz. vol. 154; p. 923.
Qua, Henry H., Concord, Mass. Weeder. No. 959,604; May 31; Sp. p. 6878; Gaz. vol. 154; p. 1170.
Quackenboss, Leonard G., Chicago, Ill. Display device. No. 955,200; Apr. 19; Sp. p. 3244; Gaz. vol. 153; p. 581.
Quackenbush, Henry M. (See Quackenbush, Paul H., assignor.)
Quackenbush, Paul H., assignor of one-half to H. M. Quackenbush, Herkimer, N. Y. Coaster. No. 964,809; July 19; Sp. p. 3965; Gaz. vol. 156; p. 659.
Quagelli, Enrico. (See Modotti and Quagelli.)
Quandahl, Hans T., Northwood, Iowa. Ribbon and cloth measuring device. No. 953,800; Apr. 5; Sp. p. 235; Gaz. vol. 153; p. 42.
Quandt, Ernest E., *et al.* (See Leder, Paul H. A., assignor.)
Quareles, Belle, assignor of one-fourth to T. J. Kisner, San Francisco, Cal. Dish-washer and pot-cleaner. No. 975,716; Nov. 15; Sp. p. 3641; Gaz. vol. 160; p. 613.
Quarles, J. E. (See Clark, James H., assignor.)
Quast, Charles, Chicago, Ill. Tool-holder. No. 954,049; Apr. 5; Sp. p. 734; Gaz. vol. 153; p. 129.
Quayle, William O., Wilmington, Del., assignor to The Midland Chemical Company, Midland, Mich. Making sulfur chlorid. No. 961,530; June 14; Sp. p. 2665; Gaz. vol. 155; p. 463.
Quedens, George, New York, N. Y. Tide-motor. No. 975,157; Nov. 8; Sp. p. 2441; Gaz. vol. 160; p. 397.
Queisser, Max A., assignor to Pearson & Co. Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Stable composition containing hydrogen peroxid. No. 959,605; May 31; Sp. p. 6879; Gaz. vol. 154; p. 1171.
Queneau, Augustin L. J., Philadelphia, Pa. Electric furnace and operating the same. No. 948,343; Feb. 8; Sp. p. 1171; Gaz. vol. 151; p. 215.
Quentell, William P., Norwalk, Conn. Computing-machine. No. 950,114; Feb. 22; Sp. p. 4957; Gaz. vol. 151; p. 873.
Quentell, William P., Stanford, Conn., assignor to S. O. Edmonds, New York, N. Y. Calculating-machine. No. 966,410; Aug. 2; Sp. p. 1169; Gaz. vol. 157; p. 189.
Quentell, William P., Stamford, and F. Judge, Norwalk, Conn.; said Judge assignor to said Quentell. Calculating-machine. No. 945,601; Jan. 4; Sp. p. 1270; Gaz. vol. 150; p. 198.
Quenzer, Arthur, New York, N. Y. Supporter. No. 949,716; Feb. 15; Sp. p. 4017; Gaz. vol. 151; p. 699.
Quick, Austin T., Lynchburg, Va. Mattress. No. 953,551; Mar. 29; Sp. p. 6396; Gaz. vol. 152; p. 1146.
Quick, Charles F., Yonkers, N. Y. Spring-wheel for vehicles. No. 967,553; Aug. 16; Sp. p. 3665; Gaz. vol. 157; p. 630.
Quick, Roscoe H., Piatt, Ill. Hay-rack sill. No. 970,551; Sept. 20; Sp. p. 3005; Gaz. vol. 158; p. 523.
Quick Unloading Car Chute Co., The. (See Brazeal, Joseph E., assignor.)
Quick, William. (See Jones, James A., assignor.)
Quick, William B., St. Louis, Mo. Coal and wood box. No. 950,027; Feb. 22; Sp. p. 4802; Gaz. vol. 151; p. 844.
Quick, William B., St. Louis, Mo. Combined coal and wood box. No. 969,564; Sept. 6; Sp. p. 887; Gaz. vol. 158; p. 140.
Quick Work Stove Company, The. (See Kitzsteiner, Frank, assignor.)
Quickel, Allen E. (See Quickel, Edwin G. and A. E.)
Quickel, Edwin G. and A. E., York, Pa. Lime-spreader. No. 965,936; Aug. 2; Sp. p. 183; Gaz. vol. 157; p. 32.
Quickel, Henry F., Harrisburg, Pa. Valve. No. 974,185; Nov. 1; Sp. p. 173; Gaz. vol. 160; p. 30.
Quiggin, Daniel A., Liverpool, England. Apparatus for condensing steam. No. 962,095; June 21; Sp. p. 3869; Gaz. vol. 155; p. 677.
Quigle, Frank E., Wingate, Ind. Gate. No. 945,418; Jan. 4; Sp. p. 896; Gaz. vol. 150; p. 139.
Quigley, Edward J., Newark, N. J. Garment. No. 961,013; June 7; Sp. p. 1557; Gaz. vol. 155; p. 261.
Quigley, Edward J., Newark, N. J. Collar. No. 962,665; June 28; Sp. p. 5128; Gaz. vol. 155; p. 896.
Quigley, Edward J., Newark, N. J., assignor to The Olus Manufacturing Co., New York, N. Y. Garment. No. 973,699; Oct. 25; Sp. p. 4807; Gaz. vol. 159; p. 836.
Quigley, Jonas, and O. N. Beck, Bally, Pa. Beer-tap. No. 963,323; July 5; Sp. p. 725; Gaz. vol. 156; p. 104.
Quigley, Wirt S., Jersey City, N. J., assignor to Rockwell Furnace Company. Fuel oil or gas furnace. No. 975,068; Nov. 8; Sp. p. 2242; Gaz. vol. 160; p. 366.
Quill, Leonard M., *et al.* (See Runner, John B., assignor.)
Quin, Richard C., Toronto, Ontario, Canada. Fender for rolling-stock. No. 966,596; Aug. 9; Sp. p. 1640; Gaz. vol. 157; p. 280.
Quinby, George N., Jr., North Providence, R. I. Telephone-transmitter. No. 955,685; Apr. 19; Sp. p. 4315; Gaz. vol. 153; p. 746.
Quinby, Harrison, assignor of one-half to W. J. Killian, Muncie, Ind. Universal joint. No. 945,803; Jan. 11; Sp. p. 1764; Gaz. vol. 150; p. 296.
Quincy, Charles F., Oconomowoc, Wis., assignor to Quincy, Manchester, Sargent Company, New York, N. Y. Insulated rail-joint. No. 972,471; Oct. 11; Sp. p. 2072; Gaz. vol. 159; p. 361.
Quincy Elevator Gate Company. (See Fogal, Crichton, and Mowry, assignors.)
Quincy, Manchester, Sargent Company. (See Quincy, Charles F., assignor.)
Quinn, Felix, assignor of one-half of P. J. Ridge, Buffalo, N. Y. Pattern or mold forming machine. No. 972,914; Oct. 18; Sp. p. 3089; Gaz. vol. 159; p. 542.
Quinn, James H., Stoyestown, Pa. Antirefillable bottle. No. 970,392; Sept. 13; Sp. p. 2653; Gaz. vol. 158; p. 448.
Quinn, James J., *et al* (See Radigan, John E., assignor.)
Quinn, John B., assignor to Shnable & Quinn, Chicago, Ill. Concrete-car. No. 962,465; June 28; Sp. p. 4704; Gaz. vol. 155; p. 829.
Quinn, John C. (See Wiebe, Sigurd, assignor.)
Quinn, John F., Washington, D. C. Automatic discharger for sewage, &c. No. 968,263; Aug. 23; Sp. p. 5181; Gaz. vol. 157; p. 892.
Quinn, John P., assignor to M. J. Quinn, Chelmsford, Mass. Post. No. 970,552; Sept. 20; Sp. p. 3007; Gaz. vol. 158; p. 523.
Quinn, John R., *et al.* (See Radigan, John E., assignor.)
Quinn, Martin J. (See Quinn, John P., assignor.)
Quinn, Patrick, Forbes Road, Pa. Air-reservoir for mines. No. 978,642; Dec. 13; Sp. p. 2672; Gaz. vol. 161; p. 454.
Quinn, Patrick J., and G. P. Clifford, assignors of one-third to D. A. Driscoll, Buffalo, N. Y. Car-door lock. No. 957,518; May 10; Sp. p. 2181; Gaz. vol. 154; p. 377.
Quinn, Peter J. (See Dalton, Joseph A., assignor.)
Quinn, Sylvester A., Kalamazoo, Mich. Water-closet. No. 968,411; Aug. 23; Sp. p. 5480; Gaz. vol. 157; p. 944.
Quinn, Thomas A. (See Bender, Nicholas A., assignor.)
Quirk, Timothy J., South Boston, Mass. Feed-water regulator. No. 969,078; Aug. 30; Sp. p. 6888; Gaz. vol. 157; p. 1199.
Quirke, Patrick M., *et al.* (See Mapel, Lewis A., assignor.)
Quist, Frank J., and M. Blanch, assignors to Domestic Vacuum Cleaner Company, Worcester, Mass. Vacuum-sweeper. No. 976,494; Nov. 22; Sp. p. 5340; Gaz. vol. 160; p. 905.
Quist, Olof, San Diego, Cal. Appliance for oil preservation of piling in water. No. 978,643; Dec. 13; Sp. p. 2673; Gaz. vol. 161; p. 454.
Quosbarth, Ludwig, Newark, N. J. Pyrographic point. No. 957,625; May 10; Sp. p. 2392; Gaz. vol. 154; p. 414.
Qviller, Theodor, *et al.* (See Hansen, Amund, assignor.)
Qvist, Niels C. (See Nordström and Qvist.)
R. Hoe and Co. (See Cooper, Ellis W., assignor.)
R. Hoe and Co. (See Halliwell, John J., assignor.)
R. Hoe and Co. (See Main, William J., assignor.)
R. Hoe and Co. (See Raabe, Otto L., assignor.)
R. Hoe and Co. (See Read, George F., assignor.)
R. Hoe and Co. (See Read and Lougee, assignors.)
R. Hoe and Co. (See Roesen, Oscar, assignor.)
R. Hoe and Co. (See Sheldon, Edward P., assignor.)
R. Hoe and Co. (See Spalckhaver, William, assignor.)
R. Neumann Hardware Co., The. (See Grossman, Simon, assignor.)
R. Neumann Hardware Co. (See Lysaght, Cornelius J., assignor.)
R. Neumann Hardware Co., The. (See Moore, Thomas J., assignor.)
R. E. Dietz Company. (See Betts, Charles L., assignor.)
R. E. Dietz Company. (See Erb, Charles F., assignor.)
R. E. Dietz Company. (See Everett, Ernest C., assignor.)
R. E. Dietz Company. (See Thiel, Frank M., assignor.)
R. H. Comey Company. (See Comey, Robert H., assignor.)
R. K. Le Blond Machine Tool Company. (See Groene, William F., assignor.)
R. K. Le Blond Machine Tool Company, The. (See Le Blond and Groene, assignors.)

Alphabetical list of patentees—Continued.

R. O. Stutsman Company. (See Anderson, Iver R., assignor.)
Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Printing-machine. No. 974,429; Nov. 1; Sp. p. 795; Gaz. vol. 160; p. 119.
Raabe, Rudolph, Tyrone, Pa. Tobacco-moistener. No. 980,127; Dec. 27; Sp. p. 5887; Gaz. vol. 161; p. 1005.
Raabe, Walter, assignor to G. Dietz, Brunswick, Germany. Automatic liquid-testing apparatus. No. 978,644; Dec. 13; Sp. p. 2674; Gaz. vol. 161; p. 455.
Raap, Gustav, assignor to Selas Gesellschaft mit beschränkter Haftung, Berlin, Germany. Inverted incandescent gas-lamp. No. 949,547; Feb. 15; Sp. p. 3705; Gaz. vol. 151; p. 644.
Rabe, August W., Newark, N. J. Clipper. No. 949,779; Feb. 22; Sp. p. 4181; Gaz. vol. 151; p. 755.
Rabeck, Guy O., Le Loup, Kans. Marker for planters. No. 969,656; Sept. 6; Sp. p. 1077; Gaz. vol. 158; p. 172.
Raber, Joseph, Poplar Bluff, assignor to Adding Typewriter Company, St. Louis, Mo. Line-spacing mechanism. No. 958,173; May 17; Sp. p. 3761; Gaz. vol. 154; p. 635.
Raber, Joseph, Poplar Bluff, assignor to Adding Typewriter Company, St. Louis, Mo. Paper-carriage. No. 973,700; Oct. 25; Sp. p. 4808; Gaz. vol. 159; p. 836.
Raber, Nelson E., Akron, Ohio. Tire wrapping and unwrapping machine. No. 958,309; May 17; Sp. p. 4177; Gaz. vol. 154; p. 682.
Raber, Oliver P. and R. L., and J. E. Lang, Kendallville, Ind. Tile-mold. No. 952,578; Mar. 22; Sp. p. 4298; Gaz. vol. 152; p. 787.
Raber, Ralph L. (See Raber and Lang.)
Rabideau, Peter, Plattsburg, N. Y. Shade-bracket. No. 971,214; Sept. 27; Sp. p. 4427; Gaz. vol. 158; p. 775.
Rabok Manufacturing Company. (See Flatau, Louis S., assignor.)
Raby, John W. (See Cluley and Raby.)
Race, Albert H., Vernon, Pa. Cattle-stanchion. No. 956,413; Apr. 26; Sp. p. 5903; Gaz. vol. 153; p. 1026.
Racine Economy Spring Company. (See Walker, Warren H., assignor.)
Racine Engine & Machy. Co. (See Woolf, Frank H., assignor.)
Racine-Sattley Company. (See Weaver, Ira A., assignor.)
Rackemann, Felix, Milton, Mass. Cigar-protector. No. 955,900; Apr. 26; Sp. p. 4803; Gaz. vol. 153; p. 849.
Rackstraw, Alfred T., Bay City, Mich. Signal-actuating means. No. 972,245; Oct. 11; Sp. p. 1607; Gaz. vol. 159; p. 283.
Rådberg, Erik G., Kristinehamn, Sweden. Grain-drill. No. 969,406; Sept. 6; Sp. p. 542; Gaz. vol. 158; p. 87.
Radcliffe, Carlton R., assignor, by mesne assignments, to The Scientific Research Co., New York, N. Y. Hydraulic power-transmitting apparatus. No. 975,795; Nov. 15; Sp. p. 3798; Gaz. vol. 160; p. 640.
Radcliffe, Carlton R., assignor to The Scientific Research Co., New York, N. Y. Internal-combustion engine. No. 975,796; Nov. 15; Sp. p. 3802; Gaz. vol. 160; p. 641.
Raddatz, Richard. (See Matchette, Raddatz, and Moukos.)
Radell, John J., Utica, N. Y. Muffler. No. 956,170; Apr. 26; Sp. p. 5383; Gaz. vol. 153; p. 945.
Rademacher, Frank, assignor of one-half to J. Maier and G. Zobelein, Los Angeles, Cal. Treating oils for combustion purposes. No. 971,142; Sept. 27; Sp. p. 4265; Gaz. vol. 158; p. 751.
Rademacher, Frank A., Forks, N. Y. Wrench. No. 969,189; Sept. 6; Sp. p. 98; Gaz. vol. 158; p. 16.
Rademacher, Herman J. (See Melzer and Rademacher.)
Radermacher, Carl. (See Grasnick, Carl W., assignor.)
Radford, Cyrus S., Philadelphia, Pa. Sash-holder and anti-rattler. No. 946,785; Jan. 18; Sp. p. 3967; Gaz. vol. 150; p. 659.
Radford, Cyrus S., Philadelphia, Pa. Match-box holder. No. 965,012; July 19; Sp. p. 4368; Gaz. vol. 156; p. 728.
Radial Power Hammer Company, The. (See Brown and Sutherland, assignors.)
Radial Power Hammer Company, The. (See Sutherland, Fred E., assignor.)
Radial Power Hammer Company, The. (See Sutherland and Brown, assignors.)
Radick, John G., Green Bay, Wis. Automatic drain-cock. No. 948,344; Feb. 8; Sp. p. 1174; Gaz. vol. 151; p. 215.
Radigan, John E., assignor of one-fourth to J. R. Quinn, one-fourth to J. J. Quinn, and one-fourth to A. J. Byrne, Cleveland, Ohio. Controlling device. No. 974,991; Nov. 8; Sp. p. 2088; Gaz. vol. 160; p. 340.
Radio Sign Company. (See Piccot, Henry W., assignor.)
Radio Telephone Company, The. (See De Forest, Lee, assignor.)
Radio Telephone Company, The. (See Kent, Roscoe, assignor.)
Radio Telephone Company, The. (See Simon, Emil J., assignor.)
Radius, Edward W., Shelburn, Ind. Electric-railway system. No. 954,342; Apr. 5; Sp. p. 1379; Gaz. vol. 153; p. 229.
Radke, Theodore J., Oak Park, Ill. Water-heater. No. 972,717; Oct. 11; Sp. p. 2629; Gaz. vol. 159; p. 446.
Radoman, Peter, Red Lodge, Mont. Railway joint-chair. No. 971,308; Sept. 27; Sp. p. 4598; Gaz. vol. 158; p. 805.
Rae Electric Company. (See Rae, Frank B., assignor.
Rae, Frank B., Boston, Mass. System of motor control. No. 975,572; Nov. 15; Sp. p. 3334; Gaz. vol. 160; p. 566.
Rae, Frank B., Detroit, Mich., assignor, by mesne assignments, to Rae Electric Company. Electric motor and controlling system. No. 979,094; Dec. 20; Sp. p. 3614; Gaz. vol. 161; p. 634.
Rae, Gavin. (See Shaw, Robert W., assignor.)
Raedeker, Henry A., Melrose Park, Ill. Indicator. No. 953,762; Apr. 5; Sp. p. 160; Gaz. vol. 153; p. 30.
Raeder, Heinrich. (See Thomaschewski, Raeder, Mieg, and Fischer.)
Raeder, Heinrich, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye of anthracene series. No. 950,343; Feb. 22; Sp. p. 5430; Gaz. vol. 151; p. 952.
Raeder, Heinrich, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 950,344; Feb. 22; Sp. p. 5431; Gaz. vol. 151; p. 952.
Raettig, Alfred W. H., Klingers, Mich. Folding cradle. No. 962,587; June 28; Sp. p. 4974; Gaz. vol. 155; p. 871.
Raetz, Stephen J. (See Worthington, Raetz, and Kreitter.)
Raez, Niklaus, St. Joseph, Mo. Combination agricultural implement. No. 974,916; Nov. 8; Sp. p. 1898; Gaz. vol. 160; p. 313.
Rafferty, Charles. (See Cunniff and Rafferty.)
Rafferty, Charles, Fall River, Mass. Loom-shuttle. No. 955,548; Apr. 19; Sp. p. 3985; Gaz. vol. 153; p. 699.
Rafferty, Charles, Fall River, Mass. Loom-shuttle. No. 977,840; Dec. 6; Sp. p. 912; Gaz. vol. 161; p. 144.
Rafferty, Thomas C., Philadelphia, Pa. Telephonic apparatus. No. 956,171; Apr. 26; Sp. p. 5386; Gaz. vol. 153; p. 945.
Raflovich, Harry G., Jersey City, assignor to Rubber B. B. Co., Bloomfield, N. J. Antiskid-tire. No. 965,331; July 26; Sp. p. 5040; Gaz. vol. 156; p. 866.
Ragan, L. A. (See McDonough, John P., assignor.)
Ragan, Owen P., Ridgeway, Mo. Electric call-clock. No. 951,148; Mar. 8; Sp. p. 1389; Gaz. vol. 152; p. 252.
Ragan, Owen P., Ridgeway, Mo. Signal attachment for clocks. No. 976,214; Nov. 22; Sp. p. 4680; Gaz. vol. 160; p. 806.
Ragan, Willis E. (See Small, Edward F., assignor.)
Rager, James H., Vintondale, Pa. Wire-stretcher. No. 964,552; July 19; Sp. p. 3327; Gaz. vol. 156; p. 569.
Rager, Reuben M., Millwood, assignor of one-third to J. J. Gilligan, Latrobe, and one-fourth to A. F. Kestner, Millwood, Pa. Nut-lock. No. 968,979; Aug. 30; Sp. p. 6687; Gaz. vol. 157; p. 1164.
Ragland, Charles W., Manchester, Va. Step, platform, and door operating mechanism. No. 979,886; Dec. 27; Sp. p. 5346; Gaz. vol. 161; p. 925.
Ragsdale, Charles R., Bowling Green, Ky. Box-cover fastener. No. 967,435; Aug. 16; Sp. p. 3423; Gaz. vol. 157; p. 590.
Rahe, Samuel E., Brooklyn, N. Y. Match-making machine. No. 951,381; Mar. 8; Sp. p. 1874; Gaz. vol. 152; p. 327.
Rahm, Arvid H., assignor to J. A. Peterson, Refteled, Sweden. Tool-holder for lathes, planers, and other working-machines. No. 946,947; Jan. 18; Sp. p. 4349; Gaz. vol. 150; p. 715.
Rahm, Robert C. (See Janssen and Rahm.)
Rahm, Robert C., assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine attachment. No. 967,670; Aug. 16; Sp. p. 3898; Gaz. vol. 157; p. 669.
Rahm, Robert C., assignor to Textile Machine Works, Wyomissing, Pa. Braid. No. 972,718; Oct. 11; Sp. p. 2634; Gaz. vol. 159; p. 447.
Rahn, Albert, Neustadt, Ontario, Canada. Currycomb. No. 962,666; June 28; Sp. p. 5130; Gaz. vol. 155; p. 896.
Rahn, Albert, Neustadt, Ontario, Canada. Currycomb. No. 962,667; June 28; Sp. p. 5131; Gaz. vol. 155; p. 897.
Rahn, Robert C., assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 971,403; Sept. 27; Sp. p. 4781; Gaz. vol. 158; p. 837.
Rahner, Ernest B., Cazenovia, Ill. Grain-shocker. No. 953,155; Mar. 29; Sp. p. 5544; Gaz. vol. 152; p. 1011.
Raht, William L., San Diego, Cal. Wave-motor. No. 969,903; Sept. 13; Sp. p. 1642; Gaz. vol. 158; p. 283.
Raifsnyder, William H. F., Oil City, Pa. Pulley. No. 955,994; Apr. 26; Sp. p. 4992; Gaz. vol. 153; p. 883.
Raikes, Edmond W., Cleveland, Ohio. Pneumatic hammer. No. 955,686; Apr. 19; Sp. p. 4317; Gaz. vol. 153; p. 746.
Rail Joint Company, The. (See Armstrong, Victor C., assignor.)
Rail Joint Company, The. (See Kohn, Koby, assignor.) (Reissue.)
Rail Joint Company, The. (See Stanford, Arthur L., assignor.)
Rail Joint Company, The. (See Wolhaupter, Benjamin, assignor.)
Rail Laying Machine Company. (See Reinehr, John, assignor.)
Railroad Supply Company, The. (See Bacon, Levi S., assignor.)
Railway Automatic Mail Device Co. (See Corthell, William M., assignor.)
Railway Foundry Company. (See Ross, George W., assignor.)
Railway Improvement Company. (See Coleman, Charles S., assignor.)

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Railway Specialty & Supply Company. (See Laden, Patrick, assignor.)
Railway Specialty & Supply Company. (See Moore, Philip W., assignor.)
Railway and Stationary Refrigerating Company, The. (See Palmer, Cassius C., assignor.)
Railway Telephone & Electric Company. (See Lademann, Otto T., assignor.)
Railway Utilities Company, The. (See Lungren, Charles M., assignor.)
Raimes & Company. (See Whitlatch, Russell W., assignor.)
Raines, Richard, New York, N. Y. Machine-gun. No. 965,538; July 26; Sp. p. 5506; Gaz. vol. 156; p. 938.
Rainey, William J., Grove City, Pa. Computing device. No. 956,998; May 3; Sp. p. 1086; Gaz. vol. 154; p. 170.
Raisbeck, Joseph, Braceville, Ill. Tug and buckle. No. 952,357; Mar. 15; Sp. p. 3824; Gaz. vol. 152; p. 683.
Rajala, Frank W. P., Cataldo, Idaho. Crosscut-saw set. No. 955,901; Apr. 26; Sp. p. 4804; Gaz. vol. 153; p. 849.
Rakestraw, William H., Bloomington, Ill. Vacuum-cleaner. No. 971,215; Sept. 27; Sp. p. 4428; Gaz. vol. 158; p. 776.
Rakousky, Joseph, San Francisco, Cal. Car-fender. No. 947,260; Jan. 25; Sp. p. 4979; Gaz. vol. 150; p. 846.
Rakowicz, Paul. (See Pistor and Rakowicz.)
Rakowsky, Gustav A., assignor to Automatic Unloading Car Company, Duluth, Minn. Dump-car. No. 973,208; Oct. 18; Sp. p. 3767; Gaz. vol. 159; p. 644.
Rakowsky, Gustav A., assignor to Automatic Unloading Car Company, Duluth, Minn. Dump-car. No. 973,209; Oct. 18; Sp. p. 3771; Gaz. vol. 159; p. 644.
Rakowsky, Gustav A., assignor to Automatic Unloading Car Co., Duluth, Minn. Dump-car. No. 973,210; Oct. 18; Sp. p. 3773; Gaz. vol. 159; p. 645.
Ralph, Robert W., London, England. Display device. No. 964,553; July 19; Sp. p. 3330; Gaz. vol. 156; p. 569.
Ralph, Stephen J. (See Thwaites and Ralph.)
Ralston, Gavin C., Lee, assignor to J. Stone & Company Limited, Deptford, England. Apparatus for discharging ashes, ballast-water, bilge-water, and other materials from ships and other places. No. 963,649; July 5; Sp. p. 1376; Gaz. vol. 156; p. 214.
Ralston, Isaac J., and J. Briggs, assignors of one-third to H. J. Walter, Kane, Pa. Glass-drawing furnace. No. 958,535; May 17; Sp. p. 4630; Gaz. vol. 154; p. 760.
Ralston, Joseph S. (See Becker, Anton, assignor.)
Ralston, Robert D., Wilscot, Ga. Corn-crib. No. 956,903; May 3; Sp. p. 880; Gaz. vol. 154; p. 140.
Ralston Steel Car Company, The. (See Becker, Anton, assignor.)
Ralston Steel Car Company, The. (See Irwin and Tesseyman, assignors.)
Ralston Steel Car Company, The. (See Tesseyman and Irwin, assignors.)
Ramage, Alexander S., Newark, N. J., assignor to Chemical Development Co., Buffalo, N. Y. Separation of combined minerals. No. 949,002; Feb. 15; Sp. p. 2576; Gaz. vol. 151; p. 463.
Ramage, Alexander S., Newark, N. J., assignor to Chemical Development Co., Buffalo, N. Y. Producing electrolytic copper. No. 949,003; Feb. 15; Sp. p. 2577; Gaz. vol. 151; p. 463.
Ramage, Alexander S., assignor to Chemical Development Co., Buffalo, N. Y. Preparing pure lead sulfate from impure sulfate. No. 950,677; Mar. 1; Sp. p. 453; Gaz. vol. 152; p. 74.
Ramage, Alexander S., Newark, N. J., assignor to The Electro Steel Company of Canada, Ltd., Welland, Ontario, Canada. Recovering iron from ores and preparing iron alloys. No. 949,004; Feb. 15; Sp. p. 2578; Gaz. vol. 151; p. 463.
Ramage, Alexander S., Detroit, Mich., assignor to Chemical Development Co., Buffalo, N. Y. Separating minerals. No. 967,671; Aug. 16; Sp. p. 3900; Gaz. vol. 157; p. 669.
Ramage, George W., New York, N. Y. Spirometer. No. 966,050; Aug. 2; Sp. p. 451; Gaz. vol. 157; p. 72.
Ramage, William E., and H. D. Shaw, assignors to Berkshire Hills Paper Co., Adams, Mass. Paper and grooving same. No. 958,174; May 17; Sp. p. 3763; Gaz. vol. 154; p. 636.
Ramage, William E., and H. D. Shaw, assignors to Berkshire Hills Paper Company, Adams, Mass. Paper-grooving machine. No. 979,201; Dec. 20; Sp. p. 3876; Gaz. vol. 161; p. 671.
Ramapo Iron Works. (See Snow, Gemunder, and Michel, assignors.)
Ramapo Iron Works. (See Strong, James B., assignor.)
Ramassot, Marius, Lyon, France. Thermostat. No. 961,014; June 7; Sp. p. 1558; Gaz. vol. 155; p. 261.
Ramberg, Hakon W., Brooklyn, N. Y. Packing. No. 967,235; Aug. 16; Sp. p. 3018; Gaz. vol. 157; p. 522.
Ramelli, Daniel S., New Orleans, La. Pipe-fitting. No. 963,248; July 5; Sp. p. 576; Gaz. vol. 156; p. 79.
Ramey, John C., Mount Sterling, Ky. Shaving-brush. No. 967,236; Aug. 16; Sp. p. 3019; Gaz. vol. 157; p. 522.
Ramey, Robert L., Danville, Va. Coffee-pot. No. 972,915; Oct. 18; Sp. p. 3094; Gaz. vol. 159; p. 543.
Ramey, William, and L. Chilcote, Melvern, Kans. Concrete-sidewalk form. No. 955,474; Apr. 19; Sp. p. 3838; Gaz. vol. 153; p. 674.
Ramos, Francisco, Chicago, Ill. Clarinet. No. 950,602; Mar. 1; Sp. p. 290; Gaz. vol. 152; p. 48.
Ramsay, Erskine, Birmingham, Ala. Brake mechanism for cars. No. 950,345; Feb. 22; Sp. p. 5432; Gaz. vol. 151; p. 952.
Ramsburg, George S., Somersworth, N. H. Tying device for plants. No. 965,599; July 26; Sp. p. 5633; Gaz. vol. 156; p. 959.
Ramsdell, Aubrey R. (See Craig and Ramsdell.)
Ramsden, Frederick E., Fort Dodge, Iowa. School-desk. No. 960,703; June 7; Sp. p. 946; Gaz. vol. 155; p. 157.
Ramsden, John T. (See Lewis and Ramsden.)
Ramsden, John T., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molder's clamp. No. 971,687; Oct. 4; Sp. p. 368; Gaz. vol. 159; p. 65.
Ramsey, Alonzo D., Dryden, Va. Churn. No. 946,398; Jan. 11; Sp. p. 3138; Gaz. vol. 150; p. 505.
Ramsey, Annie B., Davis, Okla. Scissors. No. 967,436; Aug. 16; Sp. p. 3424; Gaz. vol. 157; p. 590.
Ramsey, Edia R., Penn Yan, N. Y. Conduit. No. 963,471; July 5; Sp. p. 1018; Gaz. vol. 156; p. 154.
Ramsey, Eli W. (See Johnson and Ramsey.)
Ramsey, James A. (See Pointer and Ramsey.)
Ramsey, John W. (See Harker, Frank L., assignor.)
Ramsey, Joseph, *et al.* (See Chartener, Victor, assignor.)
Ramsey, Walter M., Kalamazoo, Mich. Lamp-hanger. No. 947,550; Jan. 25; Sp. p. 5688; Gaz. vol. 150; p. 944.
Ramslie, John, San Mateo, Cal. Roller-bearing. No. 952,358; Mar. 15; Sp. p. 3825; Gaz. vol. 152; p. 684.
Ramstad, John N., Seattle, Wash. Egg-beater. No. 959,606; May 31; Sp. p. 6880; Gaz. vol. 154; p. 1171.
Ramstedt, Carl W., Tranbygge, Kungsängen, Sweden. Regenerative sterilizing apparatus. No. 950,304; Feb. 22; Sp. p. 5353; Gaz. vol. 151; p. 939.
Ramstein-Gschwind, Carl, Basel, Switzerland. Color-screen for optical purposes. No. 970,111; Sept. 13; Sp. p. 2079; Gaz. vol. 158; p. 353.
Ramström, Carl A. F., Stockholm, Sweden. Liner for centrifugal liquid-separators. No. 957,092; May 3; Sp. p. 1275; Gaz. vol. 154; p. 202.
Rand, Amos W., Mondovi, Wis. Apple corer and slicer. No. 961,015; June 7; Sp. p. 1559; Gaz. vol. 155; p. 262.
Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company. Friction-clutch. No. 947,351; Jan. 25; Sp. p. 5225; Gaz. vol. 150; p. 880.
Rand, Festus S., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Variable-speed mechanism. No. 955,201; Apr. 19; Sp. p. 3247; Gaz. vol. 153; p. 582.
Rand, Fred K., assignor to The National Acme Manufacturing Company, Cleveland, Ohio. Split adjusting-nut for spindles. No. 955,902; Apr. 26; Sp. p. 4805; Gaz. vol. 153; p. 850.
Rand, Henry F., Tacoma, Wash. Device for equally dividing and distributing a current of air. No. 962,720; June 28; Sp. p. 5252; Gaz. vol. 155; p. 916.
Rand, Howard C. (See Solomon, Isaac B., assignor.)
Randall, Aaron F., Boston, assignor of one-half to R. E. Ferry, Dorchester, Mass. Combined water filter and cooler. No. 963,324; July 5; Sp. p. 726; Gaz. vol. 156; p. 104.
Randall, Charles F. (See Whitcher and Randall.)
Randall-Faichney Company. (See McElroy, Patrick J., assignor.)
Randall-Faichney Company, The. (See Provandie, Herbert F., assignor.)
Randall, Frank J., Cleveland, Ohio. Water-heater. No. 947,521; Jan. 25; Sp. p. 5631; Gaz. vol. 150; p. 935.
Randall, Frank J., Los Angeles, Cal. Gasket for pipe-joints. No. 949,658; Feb. 15; Sp. p. 3908; Gaz. vol. 151; p. 681.
Randall, Frank J., Los Angeles, Cal. Lawn-edger. No. 951,547; Mar. 8; Sp. p. 2210; Gaz. vol. 152; p. 383.
Randall, Horatio C., San Francisco, Cal. Controlling mechanism for working cylinders. No. 971,143; Sept. 27; Sp. p. 4266; Gaz. vol. 158; p. 751.
Randall, Maurice W., Portland, Me. Collapsible box. No. 974,596; Nov. 1; Sp. p. 1186; Gaz. vol. 160; p. 181.
Randall, Osro W., Miller Grove, Tex. Support for rural-free-delivery boxes. No. 954,588; Apr. 12; Sp. p. 1902; Gaz. vol. 153; p. 339.
Randall, Philip G., Malden, Mass. Telephone-transmitter. No. 953,102; Mar. 29; Sp. p. 5424; Gaz. vol. 152; p. 993.
Randall, Victor E., Battle Creek, Mich. Reversing-gear. No. 961,316; June 14; Sp. p. 2213; Gaz. vol. 155; p. 392.
Randall, Victor E., Battle Creek, and G. A. Hoeltzel, Delton, Mich. Railway-tie. No. 962,588; June 28; Sp. p. 4978; Gaz. vol. 155; p. 871.
Randall, William D., Monett, Mo. Device for cleaning boiler crown-sheets. No. 973,069; Oct. 18; Sp. p. 3435; Gaz. vol. 159; p. 595.
Randall, William P., Le Roy, N. Y. Machine for making wire fencing. No. 954,205; Apr. 5; Sp. p. 1079; Gaz. vol. 153; p. 183.
Randel, Frank L. (See Chute and Randel.)
Randel, Ivar A., assignor to McCord & Company, Chicago, Ill. Journal-lubricating device. No. 972,719; Oct. 11; Sp. p. 2636; Gaz. vol. 159; p. 447.

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Randerson, John P., Albany, N. Y. Automobile-fender. No. 968,800; Aug. 30; Sp. p. 6336; Gaz. vol. 157; p. 1104.
Randle, Joseph R., Columbus, Miss. Garment-support. No. 975,279; Nov. 8; Sp. p. 2712; Gaz. vol. 160; p. 438.
Randle, Lazarus L., Muldon, Miss. Ventilator. No. 956,999; May 3; Sp. p. 1088; Gaz. vol. 154; p. 170.
Randolph, Alfred, assignor to The Deming Company, Salem, Ohio. Windmill-pump. No. 975,280; Nov. 8; Sp. p. 2712; Gaz. vol. 160; p. 439.
Randolph, Beede F., Johnstown, assignor of one-half to M. H. R. Davis, Conemaugh, Pa. Curtain-pole. No. 955,607; Apr. 19; Sp. p. 4135; Gaz. vol. 153; p. 719.
Randolph, Edmund, Jacksonville, Fla. Gold washing and separating machine. No. 968,883; Aug. 30; Sp. p. 6500; Gaz. vol. 157; p. 1132.
Randolph, Edmund, Jacksonville, Fla. Seine-needle. No. 976,290; Nov. 22; Sp. p. 4885; Gaz. vol. 160; p. 835.
Randolph, Guy P., Jennings, La. Valve mechanism and governor. No. 970,851; Sept. 20; Sp. p. 3676; Gaz. vol. 158; p. 628.
Randolph, Jeptha B., assignor to Randolph Novelty Company, Omaha, Nebr. Ink-well. No. 955,432; Apr. 19; Sp. p. 3748; Gaz. vol. 153; p. 658.
Randolph, John L., Woburn, assignor to Sherburne & Co., Boston, Mass. Valve-setting mechanism for locomotives. No. 951,258; Mar. 8; Sp. p. 1604; Gaz. vol. 152; p. 287.
Randolph, Joseph S., Glencoe, Ohio. Kraut-cutter. No. 969,979; Sept. 13; Sp. p. 1808; Gaz. vol. 158; p. 308.
Randolph, Marion C., San Francisco, Cal. Milk-bottle holder and lock. No. 957,712; May 10; Sp. p. 2568; Gaz. vol. 154; p. 444.
Randolph Novelty Company. (See Randolph, Jeptha B., assignor.)
Randolph, William J., Sr., and W. J., Jr., Moscow, N. Y. Rail-bond. No. 978,202; Dec. 20; Sp. p. 3880; Gaz. vol. 161; p. 671.
Raney, Charles E., Courtenay, N. D. Counter-holder. No. 955,995; Apr. 26; Sp. p. 4993; Gaz. vol. 153; p. 883.
Rangnow, Otto, Philadelphia, Pa. Garment-hanger. No. 945,729; Jan. 4; Sp. p. 1569; Gaz. vol. 150; p. 242.
Rangnow, Otto, Philadelphia, Pa. Hat-trunk. No. 947,938; Feb. 1; Sp. p. 340; Gaz. vol. 151; p. 55.
Rangnow, Otto, Philadelphia, Pa. Portable bureau. No. 947,939; Feb. 1; Sp. p. 342; Gaz. vol. 151; p. 55.
Rangnow, Otto, Philadelphia, Pa. Wardrobe-trunk. No. 947,940; Feb. 1; Sp. p. 343; Gaz. vol. 151; p. 55.
Rank, Frederick G., Hershey, Pa. Nut-lock. No. 973,460; Oct. 18; Sp. p. 4283; Gaz. vol. 159; p. 730.
Rank, Peter, St. Paul, Minn. Box-fastener. No. 974,430; Nov. 1; Sp. p. 799; Gaz. vol. 160; p. 120.
Rankand Company. (See Reineking, Frederick C., assignor.)
Rankin, Charles C., Louisville, Ky. Nut-lock. No. 971,637; Oct. 4; Sp. p. 269; Gaz. vol. 159; p. 48.
Rankin, Eugene, London, assignor of one-half to G. Spicer, Kingston-on-Thames, England. Braiding-machine. No. 958,175; May 17; Sp. p. 3765; Gaz. vol. 154; p. 636.
Rankin, Joseph A., Mill City, Oreg. Nut-lock. No. 959,964; May 31; Sp. p. 7666; Gaz. vol. 154; p. 1293.
Rankin, Nicholas H., Pauline, Nebr. Shirt. No. 953,974; Apr. 5; Sp. p. 571; Gaz. vol. 153; p. 103.
Rankin, Thomas B., Itawamba county, Miss. Door-releasing mechanism. No. 966,241; Aug. 2; Sp. p. 852; Gaz. vol. 157; p. 136.
Rankin, William K., assignor to J. E. Reyburn, Philadelphia, Pa. Brake-valve. No. 953,349; Mar. 29; Sp. p. 5960; Gaz. vol. 152; p. 1074.
Rankin, William K., assignor to J. E. Reyburn, Philadelphia, Pa. Brake-valve. No. 958,176; May 17; Sp. p. 3766; Gaz. vol. 154; p. 636.
Rankins, Frederic A. D. (See St. John and Rankins.)
Ranlett, Charles C., Oakland, Cal. Burglar-alarm. No. 956,414; Apr. 26; Sp. p. 5904; Gaz. vol. 153; p. 1027.
Ranley, Sebastian, and J. A. Schirack, St. Henry, Ohio. Vehicle-top. No. 968,193; Aug. 23; Sp. p. 5032; Gaz. vol. 157; p. 868.
Ranney, Ambrose E., assignor to The Scientific Research Co., New York, N. Y. Auxiliary liquid-hydrocarbon tank for internal-combustion engines. No. 973,880; Oct. 25; Sp. p. 5176; Gaz. vol. 159; p. 899.
Ranney, Frederick E., Greenville, Mich. Refrigerator. No. 956,415; Apr. 26; Sp. p. 5905; Gaz. vol. 153; p. 1027.
Ransom, Charles. Merton, assignor to Burroughes & Watts, Limited, London, England. Billiard-cue. No. 951,453; Mar. 8; Sp. p. 2022; Gaz. vol. 152; p. 350.
Ransom, Willard G., Davenport, Iowa. Brake-power-limiting apparatus. No. 961,257; June 14; Sp. p. 2059; Gaz. vol. 155; p. 371.
Ransome Concrete Machinery Company. (See Carlson, Gustave, assignor.)
Ransome, Ernest L., New York, N. Y. Concrete plant. No. 947,599; Jan. 25; Sp. p. 5790; Gaz. vol. 150; p. 962.
Ransome, Ernest L., New York, N. Y. Apparatus for filling trenches. No. 975,457; Nov. 15; Sp. p. 3073; Gaz. vol. 160; p. 525.
Ranyak, Joseph, Detroit, Mich. Padlock. No. 978,206; Dec. 13; Sp. p. 1716; Gaz. vol. 161; p. 301.
Ranz, Jacob. (See Barker, George M., assignor.)
Rape, William F., Woodsboro, Tex. Broiler. No. 969,495; Sept. 6; Sp. p. 729; Gaz. vol. 158; p. 115.
Raphael, Albert. (See Krohnengold and Raphael.)
Rapid Addressing Platen Company. (See Latimer, William G., assignor.)
Rapp, Louis P., assignor of one-fourth to H. A. Diamant, one-fourth to G. A. Sykes, and one-twelfth to H. L. Schaefer, St. Louis, Mo. Broom-sewing machine. No. 959,439; May 24; Sp. p. 6492; Gaz. vol. 154; p. 1088.
Rapp, Samuel W., Detroit, Mich. Radiator. No. 963,807; July 12; Sp. p. 1745; Gaz. vol. 156; p. 289.
Rapp, Theodore, Los Angeles, Cal., assignor to E. Kirstein Sons Company, Rochester, N. Y. Eyeglass-mounting. No. 957,374; May 10; Sp. p. 1894; Gaz. vol. 154; p. 329.
Rapp, William J., Detroit, Mich., assignor to H. H. Creighton and A. Arnold, Toledo, Ohio. Circuit closer or timer. No. 957,713; May 10; Sp. p. 2569; Gaz. vol. 154; p. 444.
Rappenglueck, Joseph W. (See Rowe and Rappenglueck.)
Rappolt & Co. (See Zünd, Pius, assignor.)
Rarick, John, Upland, Cal. Automatic household-filter. No. 967,554; Aug. 16; Sp. p. 3667; Gaz. vol. 157; p. 631.
Rasch, Gustave C., assignor of one-half to W. G. Rasch, Burlington, Wis. Fibrous fabric. No. 970,950; Sept. 20; Sp. p. 3861; Gaz. vol. 158; p. 659.
Rasch, William G. (See Rasch, Gustave C., assignor.)
Rasche, Heinrich, assignor of one-half to F. H. Osgood, Seattle, Wash. Wood distillation. No. 962,668; June 28; Sp. p. 5132; Gaz. vol. 155; p. 897.
Raschick, Charles T., St. Paul, Minn., assignor to National Checking Company. Combined check-pad and pencil-holder. No. 945,602; Jan. 4; Sp. p. 1274; Gaz. vol. 150; p. 199.
Raschick, Charles T., St. Paul, Minn., assignor to National Checking Company. Ticket-holder. No. 946,986; Jan. 18; Sp. p. 4423; Gaz. vol. 150; p. 728.
Raschick, Charles T., and J. E. Tornquist, St. Paul, Minn., assignors to National Checking Company. Slip-clip for issuing bill-checks. No. 946,522; Jan. 11; Sp. p. 3414; Gaz. vol. 150; p. 547.
Raser, Henry T., Ashtabula, Ohio. Water-heater. No. 957,375; May 10; Sp. p. 1896; Gaz. vol. 154; p. 329.
Rash, Benjamin C., Henderson, Ky. Safety-razor. No. 953,230; Mar. 29; Sp. p. 5700; Gaz. vol. 152; p. 1035.
Rasmus, Charles W., Mount Union, Iowa. Seat-securing device for wagons. No. 947,028; Jan. 18; Sp. p. 4513; Gaz. vol. 150; p. 743.
Rasmussen, Albert E., North Yakima, Wash. Rotary engine. No. 957,799; May 10; Sp. p. 2758; Gaz. vol. 154; p. 472.
Rasmussen, Charles, assignor of one-half to P. W. Steinbeck, New Haven, Conn. Automobile-wheel. No. 965,539; July 26; Sp. p. 5508; Gaz. vol. 156; p. 938.
Rasmussen, Clara H., assignor of one-fourth to W. C. Kargus and one-fourth to G. A. Knaak, Oshkosh, Wis. Hat-fastener. No. 953,156; Mar. 29; Sp. p. 5547; Gaz. vol. 152; p. 1011.
Rasmussen, Ernest P., Denmark, Nebr. Rein-holder. No. 959,259; May 24; Sp. p. 6158; Gaz. vol. 154; p. 1029.
Rasmussen, Laurits T., assignor to Walker Manufacturing Company, Council Bluffs, Iowa. Internal-combustion engine. No. 959,805; May 31; Sp. p. 7305; Gaz. vol. 154; p. 1237.
Rasmussen, Martin, Fertile, N. D. Shoe-protector. No. 951,336; Mar. 8; Sp. p. 1772; Gaz. vol. 152; p. 312.
Rasmussen, Rudolph C., Philadelphia, Pa., assignor to Gold Medal Camp Furniture Mfg. Co. Collapsible cot. No. 952,214; Mar. 15; Sp. p. 3531; Gaz. vol. 152; p. 635.
Rasor, Augustus, *et al.* (See Firth, Franklin E., assignor.)
Rassico, Nelson E., Ransom, Kans. Rail-joint. No. 973,070; Oct. 18; Sp. p. 3437; Gaz. vol. 159; p. 595.
Rast, Felix Q. (See Scheble, Eugene S., assignor.)
Raster, Walther, Chicago, Ill. Concrete floor construction. No. 966,120; Aug. 2; Sp. p. 580; Gaz. vol. 157; p. 95.
Ratcliffe, James, Winnipeg, Manitoba, Canada. Device for polishing stone. No. 977,327; Nov. 29; Sp. p. 7145; Gaz. vol. 160; p. 1216.
Rateau, Auguste C. E., Paris, France. Steam-regenerative accumulator. No. 968,194; Aug. 23; Sp. p. 5035; Gaz. vol. 157; p. 868.
Rateau, Auguste C. E., Paris, France, assignor to Rateau Turbine Company, Chicago, Ill. High-pressure compressor or other power-absorbing machine. No. 961,317; June 14; Sp. p. 2216; Gaz. vol. 155; p. 393.
Rateau Turbine Company. (See Rateau, Auguste C. E., assignor.)
Rath, Charles H., Philadelphia, Pa. Spraying attachment. No. 958,536; May 17; Sp. p. 4631; Gaz. vol. 154; p. 761.
Rathbone, Alfred D. (See Mosher, Ralph E., assignor.)
Rathbone, Andrew, Warrington, England. Wire-drawing machinery. No. 957,093; May 3; Sp. p. 1277; Gaz. vol. 154; p. 202.
Rathbone, John A., Utica, N. Y., assignor to Rathbone Molding Machine Co., Detroit, Mich. Mold. No. 949,496; Feb. 15; Sp. p. 3597; Gaz. vol. 151; p. 627.
Rathbone, John A., Utica, N. Y., assignor to Rathbone Molding Machine Co., Detroit, Mich. Molding apparatus. No. 949,497; Feb. 15; Sp. p. 3599; Gaz. vol. 151; p. 627.

Alphabetical list of patentees—Continued.

Rathbone, John A., Utica, N. Y., assignor to Rathbone Molding Machine Co., Detroit, Mich. Forming sand molds. No. 949,498; Feb. 15; Sp. p. 3601; Gaz. vol. 151; p. 627.
Rathbone Molding Machine Co. (See Rathbone, John A., assignor.)
Rathbone, Sard & Company. (See Norstrand, Hans P. G., assignor.)
Rathbun, Frank, Olympia, Wash. Fruit-packer's table. No. 968,412; Aug. 23; Sp. p. 5481; Gaz. vol. 157; p. 944.
Rathbun, Henry E., Worcester, Mass. Loom for weaving short-weft fabric. No. 971,072; Sept. 27; Sp. p. 4125; Gaz. vol. 158; p. 729.
Rathbun, Henry E., Worcester, Mass. Pneumatic selector for short-weft looms. No. 978,645; Dec. 13; Sp. p. 2676; Gaz. vol. 161; p. 455.
Rathbun, Henry E., assignor to Loxit Company, Providence, R. I. Garment-hanger. No. 952,359; Mar. 15; Sp. p. 3826; Gaz. vol. 152; p. 684.
Rathbun, Lewis V., Rochester, N. Y. Apparatus for molding concrete burial-caskets. No. 969,299; Sept. 6; Sp. p. 309; Gaz. vol. 158; p. 51.
Rathke, Charles M. (See Johnson and Rathke.)
Ratignier, Marius, and H. Pervilhac, Lyon, France. Continuous manufacture of pellicles. No. 947,457; Jan. 25; Sp. p. 5468; Gaz. vol. 150; p. 914.
Ratledge, George H., Sr., Colorado Springs, Colo. Adjustable trestle. No. 957,094; May 3; Sp. p. 1279; Gaz. vol. 154; p. 203.
Ratzlaff, Peter S., Buhler, Kans. Grain-door for freight-cars. No. 949,659; Feb. 15; Sp. p. 3909; Gaz. vol. 151; p. 681.
Rau, John, New York, N. Y. Chandelier-support. No. 976,291; Nov. 22; Sp. p. 4886; Gaz. vol. 160; p. 835.
Rau, John M., Chicago, Ill. Receptacle. No. 954,206, Apr. 5; Sp. p. 1102; Gaz. vol. 153; p. 183.
Rauch, Elmer C., Coeur d'Alene, Idaho. Spark-plug. No. 974,824; Nov. 8; Sp. p. 1681; Gaz. vol. 160; p. 282.
Rauch, Hanns, assignor to Ofenbau-Gesellschaft mit beschränkter Haftung, Munich, Germany. Gas-holder. No. 967,672; Aug. 16; Sp. p. 3901; Gaz. vol. 157; p. 669.
Raugstad, John, Grassrange, Mont. Mail-bag catcher. No. 958,537; May 17; Sp. p. 4632; Gaz. vol. 154; p. 761.
Rauhenstein, Eva M., Buffalo, N. Y. Recording-machine. No. 972,405; Oct. 11; Sp. p. 1924; Gaz. vol. 159; p. 338.
Rausch, August, Berlin, Germany, assignor to General Electric Company. Electric hoist. No. 967,237; Aug. 16; Sp. p. 3020; Gaz. vol. 157; p. 522.
Ravelli, Agostino, Capriata d'Orba, near Alessandria, Italy. Apparatus for utilizing the movement of the sea-waves. No. 947,846; Feb. 1; Sp. p. 143; Gaz. vol. 151; p. 24.
Raven, John, Jr., New York, N. Y. Ink-pad. No. 966,951; Aug. 9; Sp. p. 2409; Gaz. vol. 157; p. 396.
Ravenshaw, Henry W., Hanwell, England. Magnetic clutch. No. 947,687; Jan. 25; Sp. p. 5959; Gaz. vol. 150; p. 991.
Ravenskilde, Peter M., Cabery, Ill. Phonograph. No. 948,675; Feb. 8; Sp. p. 1892; Gaz. vol. 151; p. 326.
Ravier, Sylvain L., Paris, France. Sheeting-pile of reinforced concrete. No. 962,784; June 28; Sp. p. 5382; Gaz. vol. 155; p. 940.
Rawdon, Charles R., St. Louis, Mo. Non-puncturable tire. No. 968,980; Aug. 30; Sp. p. 6688; Gaz. vol. 157; p. 1164.
Rawling, Robert, and J. T. White, North Shields, England. Ventilating-shaft top. No. 949,683; Feb. 15; Sp. p. 3952; Gaz. vol. 151; p. 688.
Rawlings Manufacturing Company, The. (See Whitley, William P., assignor.)
Rawlins, John H., Upland, Pa. Resilient tire for vehicle-wheels. No. 949,684; Feb. 15; Sp. p. 3953; Gaz. vol. 151; p. 689.
Rawlinson, William, East Ham, England. Grinding-rest for use in grinding mowing-machine knives and the like. No. 956,416; Apr. 26; Sp. p. 5907; Gaz. vol. 153; p. 1027.
Rawls, Eligah C. (See Weaver, Thomas E., assignor.)
Raworth, Dickson B., Brownsville, Tenn. Cleaner and separator for shelled corn. No. 959,260; May 24; Sp. p. 6159; Gaz. vol. 154; p. 1030.
Raworth, Dickson B., Brownsville, Tenn. Corn-harvester. No. 970,266; Sept. 13; Sp. p. 2415; Gaz. vol. 158; p. 407.
Rawson, Edward, Lewiston, Idaho. Tool-holder. No. 951,619; Mar. 8; Sp. p. 2344; Gaz. vol. 152; p. 406.
Rawson, Edward, St. Johns, Oreg. Belt-gearing. No. 965,937; Aug. 2; Sp. p. 185; Gaz. vol. 157; p. 32.
Rawson, Ida M., New York, N. Y. Skirt-protector. No. 955,687; Apr. 19; Sp. p. 4320; Gaz. vol. 153; p. 747.
Rawstron, Donald, Chicago, Ill. Molding and casting reinforced brake-shoes. No. 964,054; July 12; Sp. p. 2269; Gaz. vol. 156; p. 373.
Rawstron, Donald, Chicago, Ill. Brake-shoe. No. 965,938; Aug. 2; Sp. p. 186; Gaz. vol. 157; p. 32.
Rawstron, Donald, Chicago, Ill. Tire-ventilating device. No. 972,129; Oct. 4; Sp. p. 1332; Gaz. vol. 159; p. 224.
Ray Acetylene Company. (See Ray, Francis B., assignor.)
Ray, Albert D., Cleveland, Ohio. Temporary binder. No. 971,926; Oct. 4; Sp. p. 890; Gaz. vol. 159; p. 154.
Ray, David B., Huntington, N. Y. Apparatus for separating type into classes for distribution. No. 965,939; Aug. 2; Sp. p. 187; Gaz. vol. 157; p. 33.
Ray, Edward C., *et al.* (See Sparks, Thomas J., assignor.)
Ray, Francis B., New York, N. Y., assignor to Ray Acetylene Company, Elkhart, Ind. Non-automatic acetylene-generator. No. 978,125; Dec. 6; Sp. p. 1514; Gaz. vol. 161; p. 244.
Ray, George W., Philadelphia, Pa. Printing-frame. No. 963,940; July 12; Sp. p. 2021; Gaz. vol. 156; p. 333.
Ray, Henry, Newdale, Manitoba, Canada. Grain-measuring machine. No. 967,056; Aug. 9; Sp. p. 2639; Gaz. vol. 157; p. 433.
Ray, James A., Kansas City, Mo. Water-purifier and boiler-cleaner. No. 968,077; Aug. 23; Sp. p. 4769; Gaz. vol. 157; p. 829.
Ray, Mark G., assignor of one-half to C. K. Bryant, Richmond, Va. Gas-burner attachment. No. 978,207; Dec. 13; Sp. p. 1717; Gaz. vol. 161; p. 302.
Ray, Rosa, East Prairie, Mo. Pan-lifter. No. 950,189; Feb. 22; Sp. p. 5119; Gaz. vol. 151; p. 898.
Ray, Thomas H., Somerville, Mass. Ice-making machine. No. 962,241; June 21; Sp. p. 4186; Gaz. vol. 155; p. 727.
Ray, William J., Jacksonville, Fla. Sink-trap. No. 965,836; July 26; Sp. p. 6139; Gaz. vol. 156; p. 1040.
Ray, William S., assignor to W. S. Ray Manufacturing Co., San Francisco, Cal. Life-raft. No. 961,459; June 14; Sp. p. 2503; Gaz. vol. 155; p. 440.
Rayburn, John S., Grand Junction, Colo. Amalgamating-machine. No. 962,466; June 28; Sp. p. 4707; Gaz. vol. 155; p. 829.
Rayl, Claude C., Monroe, Ind. Device for sharpening lawn-mowers. No. 948,962; Feb. 8; Sp. p. 2478; Gaz. vol. 151; p. 422.
Rayman, Chauncey A., Friedens, and E. Rayman, Coleman, Pa. Wrench. No. 949,685; Feb. 15; Sp. p. 3955; Gaz. vol. 151; p. 689.
Rayman, Elmer. (See Rayman, Chauncey A. and E.)
Raymond, Cadwallader M., Somerville, assignor to American Skate Company, Boston, Mass. Ball-bearing wheel. No. 963,650; July 5; Sp. p. 1377; Gaz. vol. 156; p. 214.
Raymond Concrete Pile Company. (See Withrow, John F. D., assignor.)
Raymond, Edgar F., Rockland, assignor of one-half to C. O. Emerson, Brockton, Mass. Shoe. No. 970,393; Sept. 13; Sp. p. 2654; Gaz. vol. 158; p. 448.
Raymond, Emmet B., Los Angeles, Cal. Vapor-burner. No. 956,417; Apr. 26; Sp. p. 5908; Gaz. vol. 153; p. 1028.
Raymond, Franklin M., assignor to Consolidated Hospital Supply and Laundry Machinery Company, Incorporated, Westport, Conn. Sliding door for washing-machine cylinders. No. 947,700; Jan. 25; Sp. p. 5979; Gaz. vol. 150; p. 995.
Raymond, Franklin M., assignor to Consolidated Hospital Supply and Laundry Machinery Company, Incorporated, Westport, Conn. Sliding door for outer cases of sterilizing washing-machines. No. 947,701; Jan. 25; Sp. p. 5981; Gaz. vol. 150; p. 995.
Raymond, Fred B., Sault Ste. Marie, Mich. Washing-machine. No. 968,413; Aug. 23; Sp. p. 5483; Gaz. vol. 157; p. 945.
Raymond, Harry, assignor to E. C. Stearns & Co., Syracuse, N. Y. Back-spacing mechanism for type-writers. No. 957,376; May 10; Sp. p. 1898; Gaz. vol. 154; p. 330.
Raymond, Herbert W. (See Pennington and Raymond.)
Raymond, John P., and C. E. Baker, Chicago, Ill., assignors to The Vacuum Cleaner Company, New York, N. Y. Scrubbing device. No. 954,541; Apr. 12; Sp. p. 1803; Gaz. vol. 153; p. 324.
Raymond, John P., and C. E. Baker, Chicago, Ill., assignors to The Vacuum Cleaner Company, New York, N. Y. Scrubbing-brush. No. 954,542; Apr. 12; Sp. p. 1804; Gaz. vol. 153; p. 324.
Raymond, Samuel, Boston, Mass. Hat-fastener. No. 955,433; Apr. 19; Sp. p. 3750; Gaz. vol. 153; p. 659.
Rayner, Edgar S., Doncaster, England. Portable stand for billiard-table tops and the like. No. 963,651; July 5; Sp. p. 1379; Gaz. vol. 156; p. 214.
Rayo Incubator Company, The. (See Porter, Louis N., asignor.)
Razall, Henry G., Milwaukee, Wis. Blank book. No. 958,008; May 17; Sp. p. 3305; Gaz. vol. 154; p. 576.
Rea, John T., assignor to Standard Well Drilling & Prospecting Company, Seattle, Wash. Well-sinking apparatus. No. 952,636; Mar. 22; Sp. p. 4436; Gaz. vol. 152; p. 808.
Reach, George A. (See Cline, Samuel, assignor.)
Read, George F., London, England, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Web-roll-tension device. No. 971,073; Sept. 27; Sp. p. 4130; Gaz. vol. 158; p. 729.
Read, George F., London, England, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Printing-machine. No. 974,431; Nov. 1; Sp. p. 801; Gaz. vol. 160; p. 120.
Read, George F., and F. G. Lougee, London, England, assignors, by mesne assignments, to R. Hoe and Co., New York, N. Y. Movable work-gage for stereotype-trimming machines, &c. No. 977,474; Dec. 6; Sp. p. 98; Gaz. vol. 161; p. 18.

Alphabetical list of patentees—Continued.

Read, Harry, York, Pa. Mixing-machine. No. 966,765; Aug. 9; Sp. p. 2029; Gaz. vol. 157; p. 337.
Read, James P., *et al.* (See Macduffee, Chester E., assignor.)
Read, Joseph O., Ogden, Utah. Halter-hopple. No. 977,547; Dec. 6; Sp. p. 306; Gaz. vol. 161; p. 45.
Reade, James, Huntington, N. Y. Spray-nozzle. No. 969,657; Sept. 6; Sp. p. 1078; Gaz. vol. 158; p. 173.
Reading Hardware Company. (See Mason, George N., assignor.)
Reading Iron Company. (See Boyer, Jesse I., assignor.)
Reading Saddle and Mf'g. Co., The. (See Ennis, John L., assignor.)
Reading Standard Company. (See Schaeffer, William G., assignor.)
Reading Standard Company. (See Stewart, Charles G., assignor.)
Ready Tool Company, The. (See Barnes, George A., assignor.)
Ready Tool Company, The. (See Shillitto, Frank W., assignor.)
Ready, William A., Nashville, Tenn. Acetylene-gas generator. No. 946,269; Jan. 11; Sp. p. 2774; Gaz. vol. 150; p. 461.
Reagan, Edward S., Altoona, assignor of one-half to H. T. Burkett, Blueknob, Pa. Signal-flag holder. No. 971,560; Oct. 4; Sp. p. 109; Gaz. vol. 159; p. 21.
Reagan, James and W., Philadelphia, Pa. Lifting fire-bar. No. 964,937; July 19; Sp. p. 4217; Gaz. vol. 156; p. 704.
Reagan, James and W., Philadelphia, Pa. Chopper. No. 964,938; July 19; Sp. p. 4219; Gaz. vol. 156; p. 705.
Reagan, James and W., Philadelphia, Pa.; said W. Reagan assignor to said J. Reagan. Grate-bar. No. 952,215; Mar. 15; Sp. p. 3532; Gaz. vol. 152; p. 635.
Reagan, William. (See Reagan, James and W.)
Reagan, William, Philadelphia, Pa. Antiskidding and traction device for automobile and other wheels. No. 968,414; Aug. 23; Sp. p. 5484; Gaz. vol. 157; p. 945.
Reagan, William, Philadelphia, Pa. Antiskidding and traction device for automobile-wheels. No. 968,415; Aug. 23; Sp. p. 5486; Gaz. vol. 157; p. 945.
Reagan, William, Philadelphia, Pa. Antiskidding device. No. 968,416; Aug. 23; Sp. p. 5487; Gaz. vol. 157; p. 946.
Ream, George W., and P. E. Green, Butte, Mont. Belt. No. 958,538; May 17; Sp. p. 4634; Gaz. vol. 154; p. 761.
Reams, Joseph M., New York, N. Y. Ratchet-drill. No. 966,597; Aug. 9; Sp. p. 1642; Gaz. vol. 157; p. 280.
Rean, Walter C., *et al.* (See Choate, Charles N., assignor.)
Reardon, Joseph P., Cleveland, Ohio. Towel-sterilizer. No. 969,904; Sept. 13; Sp. p. 1643; Gaz. vol. 158; p. 283.
Rearwin, Wilber D., assignor to F. W. Moser, Chicago, Ill. Emery-wheel dresser. No. 961,460; June 14; Sp. p. 2505; Gaz. vol. 155; p. 441.
Reasoner, Miles, Bomar, Okla. Railway-crossing gate. No. 977,548; Dec. 6; Sp. p. 308; Gaz. vol. 161; p. 45.
Reasoner, Ralph B., Marshalltown, Iowa. Sheet-uniting implement. No. 966,598; Aug. 9; Sp. p. 1646; Gaz. vol. 157; p. 280.
Reaugh, Frank, Oak Cliff, Tex. Internal-combustion engine. No. 948,248; Feb. 1; Sp. p. 952; Gaz. vol. 151; p. 157.
Reaves, Allen A., Delight, Ark. Window or door. No. 961,896; June 21; Sp. p. 3443; Gaz. vol. 155; p. 609.
Rebentisch, Friedrich A., Immigrath, assignor to A. Stahn, Hanover, Germany. Box. No. 953,290; Mar. 29; Sp. p. 5830; Gaz. vol. 152; p. 1054.
Reber, John G., deceased, Chicago, Ill.; O. S. Reber, administratrix, assignor to The Sefton Manufacturing Company, Chicago, Ill., and Anderson, Ind. Paper box. No. 956,418; Apr. 26; Sp. p. 5910; Gaz. vol. 153; p. 1028.
Reber, John G., deceased, Chicago, Ill.; O. S. Reber, administratrix, assignor to The Sefton Manufacturing Company, Anderson, Ind. Folding box. No. 959,261; May 24; Sp. p. 6161; Gaz. vol. 154; p. 1030.
Reber, Olive S., administratrix. (See Reber, John G.)
Rebourg, Benjamin, assignor to Société Francaise de Constructions Mecaniques (Anciens Etablissements Cail), Denain, France. Carbureter. No. 977,044; Nov. 29; Sp. p. 6554; Gaz. vol. 160; p. 1119.
Recht, Frederick, New York, N. Y. Container for bottle-caps. No. 947,847; Feb. 1; Sp. p. 148; Gaz. vol. 151; p. 25.
Reciprocating Power and Pump Company, The. (See Lippert, Samuel, assignor.)
Reck, Joseph A., assignor of one-fourth to S. J. Reck and one-fourth to P. C. Reck, Adrian, Mich. Fence-making machine. No. 947,848; Feb. 1; Sp. p. 149; Gaz. vol. 151; p. 25.
Reck, Peter C., *et al.* (See Reck, Joseph A., assignor.)
Reck, Stephen J., *et al.* (See Reck, Joseph A., assignor.)
Reckard, Henry L., Hartford, Conn. Engraving. No. 962,096; June 21; Sp. p. 3871; Gaz. vol. 155; p. 677.
Reckard, Henry L., Hartford, Conn. Photomechanical process of engraving. No. 962,097; June 21; Sp. p. 3876; Gaz. vol. 155; p. 678.
Reckard, Henry L., Hartford, Conn. Photomechanical process of engraving. No. 962,098; June 21; Sp. p. 3880; Gaz. vol. 155; p. 679.
Reckard, Henry L., Hartford, Conn. Printing-machine. No. 974,917; Nov. 8; Sp. p. 1901; Gaz. vol. 160; p. 314.
Reckards, Edwin M. (See Dresback and Reckards.)
Recklinghausen, Max von, assignor to Cooper Hewitt Electric Company, New York, N. Y. Means for exhausting inclosed receivers. No. 946,068; Jan. 11; Sp. p. 2338; Gaz. vol. 150; p. 389.
Recording and Computing Machine Company, The. (See Ohmer and McAllister, assignors.)
Rectenwald, John J., Mount Oliver, Pa. Life-saving device. No. 975,281; Nov. 8; Sp. p. 2714; Gaz. vol. 160; p. 439.
Rector, Alcorn, assignor to Rector Help-A-Phone Company, New York, N. Y. Telephone adjunct. No. 946,270; Jan. 11; Sp. p. 2775; Gaz. vol. 150; p. 461.
Rector, Alcorn, assignor, by mesne assignments, to Rector Gas Lamp Company, New York, N. Y. Gas-lamp. No. 955,549; Apr. 19; Sp. p. 3986; Gaz. vol. 153; p. 700.
Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Gas-lamp. No. 955,903; Apr. 26; Sp. p. 4807; Gaz. vol. 153; p. 850.
Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Gas-lamp. No. 957,476; May 10; Sp. p. 2094; Gaz. vol. 154; p. 363.
Rector, Alcorn, assignor to W. B. Hutchinson, trustee, New York, N. Y. Alcohol-vapor lamp. No. 958,310; May 17; Sp. p. 4184; Gaz. vol. 154; p. 682.
Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Gas-heater. No. 960,400; June 7; Sp. p. 334; Gaz. vol. 155; p. 56.
Rector Gas Lamp Company. (See Rector, Alcorn, assignor.)
Rector Help-A-Phone Company. (See Rector, Alcorn, assignor.)
Red Top Bottling Company, The. (See Harrell, Rupert L., assignor.)
Redden, Allison P., New York, N. Y. Belt-shifter. No. 967,673; Aug. 16; Sp. p. 3903; Gaz. vol. 157; p. 669.
Redden, Delbert H., and J. F. Cunningham, assignors of one-fourth to E. P. Le Compte and one-fourth to W. Doidge, Park City, Utah. Fly-trap. No. 971,404; Sept. 27; Sp. p. 4783; Gaz. vol. 158; p. 837.
Reddig, Charles E., Hartford, Conn. Starting mechanism for explosive-engines. No. 959,070; May 24; Sp. p. 5775; Gaz. vol. 154; p. 967.
Redding, Anderson, Dames Ferry, Ga. Stalk-puller. No. 953,712; Apr. 5; Sp. p. 58; Gaz. vol. 153; p. 13.
Reddish, Benjamin T. (See Reddish, Gus, assignor.)
Reddish, Gus, Denver, assignor of one-half to B. T. Reddish, Trinidad, Colo. Automatic weight-hanger. No. 962,721; June 28; Sp. p. 5253; Gaz. vol. 155; p. 917.
Redecker, Henrietta L. (See Badgley, Lawrence J., assignor.)
Redfield, Edward E., Glendale, Oreg., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Repeating firearm. No. 953,291; Mar. 29; Sp. p. 5831; Gaz. vol. 152; p. 1054.
Redfield, Edward E., Glendale, Oreg., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Repeating firearm. No. 953,292; Mar. 29; Sp. p. 5834; Gaz. vol. 152; p. 1054.
Redfield, Stephen M., Maryville, Mo. Heat-radiator. No. 965,226; July 26; Sp. p. 4798; Gaz. vol. 156; p. 830.
Redford, Frank O. (See Greenan and Redford.)
Redford, John G., Milwaukee, Wis. Baking-oven. No. 976,598; Nov. 22; Sp. p. 5562; Gaz. vol. 160; p. 940.
Redifer, Albert E., Manila, Philippine Islands. Indicator. No. 967,833; Aug. 16; Sp. p. 4234; Gaz. vol. 157; p. 724.
Reding, John G. (See Webster and Reding.)
Redington, John, Cobalt, Ontario, Canada. Air or steam rock-drill. No. 971,638; Oct. 4; Sp. p. 270; Gaz. vol. 159; p. 48.
Redlich, Alexander E., Chicago, Ill. Device for closing faucets. No. 971,473; Sept. 27; Sp. p. 4903; Gaz. vol. 158; p. 858.
Redlinger, Mathias, Freeport, Ill. Clothes-rack. No. 955,434; Apr. 19; Sp. p. 3752; Gaz. vol. 153; p. 659.
Redman, Albert D., Sr. (See Bill and Redman.)
Redmond, Charles A., Los Angeles, Cal. Shock-absorbing attachment for bicycles. No. 973,071; Oct. 18; Sp. p. 3438; Gaz. vol. 159; p. 595.
Redmond, Edmond, Rochester, N. Y. Nail-extractor. No. 968,688; Aug. 30; Sp. p. 6108; Gaz. vol. 157; p. 1068.
Redmond, Edmond, Rochester, N. Y. Lightning-conductor. No. 970,642; Sept. 20; Sp. p. 3221; Gaz. vol. 158; p. 555.
Redmond, James E., Butte, Mont. Antiskidding device for tires. No. 974,825; Nov. 8; Sp. p. 1683; Gaz. vol. 160; p. 282.
Redmond, John, Le Roy, N. Y. Connector for grain-spout sections. No. 949,499; Feb. 15; Sp. p. 3603; Gaz. vol. 151; p. 628.
Redmond, John G., Fairmount, Ill. Plow. No. 949,686; Feb. 15; Sp. p. 3955; Gaz. vol. 151; p. 689.
Redmond, Mary A. W., Brooklyn, N. Y. Nursery-seat. No. 950,758; Mar. 1; Sp. p. 639; Gaz. vol. 152; p. 102.
Redner, John J., New York, N. Y. Piston-packing ring. No. 953,713; Apr. 5; Sp. p. 59; Gaz. vol. 153; p. 14.
Redpath, Robert C., Oxford township, Johnson county, Kans. Reel. No. 970,394; Sept. 13; Sp. p. 2655; Gaz. vol. 158; p. 448.

Alphabetical list of patentees—Continued.

Redwine, Samuel L., Toledo, Ohio. Drawer-guide. No. 972,246; Oct. 11; Sp. p. 1612; Gaz. vol. 159; p. 283.
Reeb, George, Pittsburg, Pa. Reamer attachment for die-stocks. No. 965,657; July 26; Sp. p. 5756; Gaz. vol. 156; p. 979.
Reece Buttonhole Machine Company, The. (See Klewicz, John, assignor.)
Reece Button-Hole Machine Company, The. (See Perley, John, assignor.)
Reece Folding Machine Company. (See Dixon, Walter L., assignor.)
Reece Folding Machine Company. (See Reece, George, assignor.)
Reece, George, Wollaston, Mass., assignor to Reece Folding Machine Company, Portland, Me., and Boston, Mass. Collar and cuff folding machine. No. 972,916; Oct. 18; Sp. p. 3096; Gaz. vol. 159; p. 543.
Reece, George D. S., St. Louis, Mo. Airship. No. 962,386; June 21; Sp. p. 4494; Gaz. vol. 155; p. 776.
Reed, Arthur W., Boston, Mass. Crew-saving and submarine-salvaging device. No. 953,642; Mar. 29; Sp. p. 6586; Gaz. vol. 152; p. 1176.
Reed, Benjamin E., Goldsboro, Md. Corn-harvester. No. 975,797; Nov. 15; Sp. p. 3808; Gaz. vol. 160; p. 641.
Reed, Charles B., West Bridgewater, Pa. Revolving table. No. 955,827; Apr. 19; Sp. p. 4600; Gaz. vol. 153; p. 795.
Reed, Charles E., assignor to Charles E. Reed & Company, Chicago, Ill. Pattern-cutting machine. No. 978,486; Dec. 13; Sp. p. 2313; Gaz. vol. 161; p. 399.
Reed, Charles E., assignor to Charles E. Reed & Company, Chicago, Ill. Patern-cutting machine. No. 978,487; Dec. 13; Sp. p. 2315; Gaz. vol. 161; p. 399.
Reed, Charles J., Philadelphia, Pa. Removing tin from scrap. No. 950,115; Feb. 22; Sp. p. 4966; Gaz. vol. 151; p. 873.
Reed, Charles J., Philadelphia, Pa. Detinning. No. 958,177; May 17; Sp. p. 3768; Gaz. vol. 154; p. 637.
Reed, Charles J., Philadelphia, Pa. Separating heterogeneous substances and detinning scrap. No. 971,405; Sept. 27; Sp. p. 4784; Gaz. vol. 158; p. 837.
Reed, Conwell P., assignor of one-half to S. J. Culwell, Bridgeport, Tex. Cattle-guard. No. 974,092; Oct. 25; Sp. p. 5606; Gaz. vol. 159; p. 971.
Reed, Edmund L. (See Sharood, Samuel V., assignor.)
Reed, Edwin G., Wilkinsburg, Pa. Signal. No. 950,956; Mar. 1; Sp. p. 1035; Gaz. vol. 152; p. 165.
Reed, Franklin M. (See Morin and Reed.)
Reed, Frederick W., Trafford, Pa. Pipe-coupling. No. 964,315; July 12; Sp. p. 2789; Gaz. vol. 156; p. 460.
Reed, Harry, assignor of one-eighth to F. A. Sargent and one-eighth to G. C. Rutledge, Tenino, Wash. Pulley. No. 961,796; June 21; Sp. p. 3209; Gaz. vol. 155; p. 576.
Reed, Henry A. (See McCracken, Robert A., assignor.)
Reed, Homer L., Louisiana, Mo. Nut-lock. No. 968,078; Aug. 23; Sp. p. 4771; Gaz. vol. 157; p. 830.
Reed, John A., assignor of one-half to A. McGregor, Miles City, Mont. Gate-latch. No. 966,859; Aug. 9; Sp. p. 2227; Gaz. vol. 157; p. 366.
Reed, John H., Lancaster, Wis. Pin. No. 958,311; May 17; Sp. p. 4185; Gaz. vol. 154; p. 682.
Reed, Lloyd R., assignor of one-half to M. N. Johnson, Urbana, Ohio. Fountain-brush. No. 954,133; Apr. 5; Sp. p. 901; Gaz. vol. 153; p. 156.
Reed, Lyman C., New Orleans, La. Panel-board. No. 956,419; Apr. 26; Sp. p. 5912; Gaz. vol. 153; p. 1028.
Reed, Lyman C., New Orleans, La. Self-regulating incubator. No. 965,837; July 26; Sp. p. 6140; Gaz. vol. 156; p. 1041.
Reed, Ralph R., Oakland, Cal. Balancing device. No. 955,435; Apr. 19; Sp. p. 3752; Gaz. vol. 153; p. 659.
Reed, Ralph R., San Francisco, Cal. Chair. No. 968,195; Aug. 23; Sp. p. 5037; Gaz. vol. 157; p. 868.
Reed, Roy R. (See Crawford, George S., assignor.)
Reed, Rufus C., assignor of one-half to W. A. Day, M. W. Totty, and R. D. Atkinson, Jacksonville, Tex. Crude-oil burner. No. 961,797; June 21; Sp. p. 3210; Gaz. vol. 155; p. 576.
Reed, Samuel W., Grand Rapids, Mich. Potato-bug exterminator. No. 963,011; June 28; Sp. p. 5803; Gaz. vol. 155; p. 1016.
Reed, Thomas J. (See King and Reed.)
Reed, Walter B., assignor of one-half to C. I. Manning, White Cloud, Mich. Stretcher. No. 975,996; Nov. 15; Sp. p. 4188; Gaz. vol. 160; p. 710.
Reed, William A., Hollywood, Cal. Gas-turbine engine. No. 972,642; Oct. 11; Sp. p. 2476; Gaz. vol. 159; p. 421.
Reed, William E., Cleveland, Ohio. Gate. No. 952,758; Mar. 22; Sp. p. 4699; Gaz. vol. 152; p. 849.
Reed, William H. (See Farnsworth and Reed.)
Reed, William S., Leominster, Mass. Cap for hydrants. No. 969,905; Sept. 13; Sp. p. 1645; Gaz. vol. 158; p. 284.
Reeder, Andrew H., Stonega, Va. Coke-drawer. No. 980,004; Dec. 27; Sp. p. 5580; Gaz. vol. 161; p. 964.
Reeder, Charles C., Lincoln, Ill. Scaffold-bracket. No. 968,417; Aug. 23; Sp. p. 5488; Gaz. vol. 157; p. 946.
Reeder, Charles H., St. Louis, Mo. Cutting-machine. No. 968,196; Aug. 23; Sp. p. 5038; Gaz. vol. 157; p. 868.
Reeder, Lester R., Walkersville, W. Va. Broom-head. No. 960,198; May 31; Sp. p. 8161; Gaz. vol. 154; p. 1373.
Reeder, Robert L., Blytheville, Ark. Ax-rack. No. 967,238; Aug. 16; Sp. p. 3022; Gaz. vol. 157; p. 522.
Reeps, Charles F., Chicago, Ill. Fall-board for pianos, organs, or other instruments. No. 974,093; Oct. 25; Sp. p. 5608; Gaz. vol. 159; p. 971.
Rees, Edmund S. G., Wolverhampton, England. Centrifugal pump, condenser, and compressor. No. 975,997; Nov. 15; Sp. p. 4189; Gaz. vol. 160; p. 710.
Rees, Edward B., Monett, Mo. Pool-register. No. 951,887; Mar. 15; Sp. p. 2915; Gaz. vol. 152; p. 527.
Rees, Edward B., Monett, Mo. Mortise-lock. No. 969,725; Sept. 6; Sp. p. 1211; Gaz. vol. 158; p. 196.
Rees, Harald B., Asheville, N. C. Roller for hide-unhairing machines. No. 959,262; May 24; Sp. p. 6162; Gaz. vol. 154; p. 1030.
Rees Hook Company. (See Eden, James A., Jr., assignor.)
Rees, John J., *et al.* (See Johness, Frank P., assignor.)
Rees, Morgan, Follansbee, W. Va., assignor of one-third to W. A. Skinkle, Cleveland, Ohio, and one-third to W. Thomas, Pittsburg, Pa. Bluing iron or steel articles. No. 949,500; Feb. 15; Sp. p. 3604; Gaz. vol. 151; p. 628.
Rees, Perley E., assignor to J. R. Steele, Kansas City, Mo. Coin assorting and counting machine. No. 975,458; Nov. 15; Sp. p. 3075; Gaz. vol. 160; p. 526.
Rees, Thomas, Chicago, Ill. Smoke-consumer. No. 957,377; May 10; Sp. p. 1899; Gaz. vol. 154; p. 330.
Rees, Walter. (See Hollar, Rees, and Balou.)
Reesberg, Anders B., Tipton, Iowa. Tailor's measure. No. 950,403; Feb. 22; Sp. p. 5537; Gaz. vol. 151; p. 970.
Reese, Clyde B., Reese, N. C. Boot and shoe protector. No. 977,399; Nov. 29; Sp. p. 7340; Gaz. vol. 160; p. 1241.
Reese, David L., Redlands, Cal. Burner. No. 965,407; July 26; Sp. p. 5190; Gaz. vol. 156; p. 891.
Reese, Fred A., Piasa, Ill. Cultivator attachment. No. 973,461; Oct. 18; Sp. p. 4284; Gaz. vol. 159; p. 730.
Reese, Henry D., Abbeville, S. C., and A. J. Glaxon, New York, N. Y., assignors to M. Young, Union, S. C. Optometer. No. 968,981; Aug. 30; Sp. p. 6690; Gaz. vol. 157; p. 1165.
Reese, John H., and T. F. Dunlavy, assignors of one-third to G. G. Hunt, Colegrove, Cal. Stuffing-box. No. 972,247; Oct. 11; Sp. p. 1613; Gaz. vol. 159; p. 283.
Reese, Louis C., Southfields, London, England. Manufacture of malted preparations from cereals. No. 974,597; Nov. 1; Sp. p. 1188; Gaz. vol. 160; p. 182.
Reese, W. K., Jr. (See Lautzenhiser and Chandler, assignors.)
Reeside, Alexander A., Wichita, Kans. Garment and collar fastener. No. 962,242; June 21; Sp. p. 4190; Gaz. vol. 155; p. 728.
Reeve, Carlton H., and T. A. Oswald, Chicago, Ill., assignors to B. F. Cummins Company. Hand perforating-punch. No. 967,555; Aug. 16; Sp. p. 3669; Gaz. vol. 157; p. 631.
Reeve, Charles D., Grand Rapids, Mich., and H. A. Hall, Newcastle, Ind. Latch. No. 949,843; Feb. 22; Sp. p. 4314; Gaz. vol. 151; p. 777.
Reeve, Ezra. (See Brock and Reeve.)
Reeve, Sidney A., Worcester, assignor to C. F. Brown, trustee, Reading, Mass. Feed heating and superheating boiler. No. 960,704; June 7; Sp. p. 949; Gaz. vol. 155; p. 157.
Reeves, Bell N., El Paso, Tex. Cover for culinary utensils. No. 946,271; Jan. 11; Sp. p. 2777; Gaz. vol. 150; p. 461.
Reeves, Clifton, Trenton, N. J. Engine-valve. No. 974,432; Nov. 1; Sp. p. 803; Gaz. vol. 160; p. 121.
Reeves & Company. (See Clay, Harry C., assignor.)
Reeves, Frederick W., assignor to The Electric Accumulator Company, Pittsburg, Pa. Brush-holder. No. 977,400; Nov. 29; Sp. p. 7343; Gaz. vol. 160; p. 1242.
Reeves, George H., New York, N. Y. Washpail. No. 961,531; June 14; Sp. p. 2667; Gaz. vol. 155; p. 464.
Reeves, George H., assignor of one-half to E. Griffin, Flat River, Mo. Sterilizer. No. 975,282; Nov. 8; Sp. p. 2715; Gaz. vol. 160; p. 439.
Reeves, Ila R., Adelphi, Iowa. Hay-rack brake. No. 958,766; May 24; Sp. p. 5097; Gaz. vol. 154; p. 862.
Reeves, John R., *et al.* (See Hiett, William S., assignor.)
Reeves, Percy, assignor to Dietzer-Sale Lithograph Company, Buffalo, N. Y. Advertising device. No. 976,495; Nov. 22; Sp. p. 5341; Gaz. vol. 160; p. 906.
Reeves, Robert B., Whitstable, England. Padlock and staple or hasp therefor. No. 972,643; Oct. 11; Sp. p. 2478; Gaz. vol. 159; p. 422.
Reffelt, Flora A., Chicago, Ill. Key-guide. No. 959,965; May 31; Sp. p. 7667; Gaz. vol. 154; p. 1294.
Regal, August. (See Karažej and Regal.)
Regal Motor Car Company. (See Winans, Earl W., assignor.)
Regal Umbrella Company. (See Miller, Frank P., assignor.)
Regan, Daniel F., Los Angeles, Cal. Hose-holder. No. 973,810; Oct. 25; Sp. p. 5027; Gaz. vol. 159; p. 874.
Regan, John, New Bedford, Mass., assignor to Crompton & Knowles Loom Works. Warp stop-motion for looms. No. 951,487; Mar. 8; Sp. p. 2095; Gaz. vol. 152; p. 362.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door check and closer. No. 962,916; June 28; Sp. p. 5623; Gaz. vol 155; p. 985.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Buffer. No. 967,674; Aug. 16; Sp. p. 3904; Gaz. vol. 157; p. 670.

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Regenbogen, Conrad, Manchester, England, assignor to The Westinghouse Machine Company. Fluid-pressure turbine. No. 953,552; Mar. 29; Sp. p. 6397; Gaz. vol. 152; p. 1146.

Regenold, Frederick, Memphis, Tenn. Automatic saw-trimmer for equalizing lengths of lumber. No. 977,750; Dec. 6; Sp. p. 724; Gaz. vol. 161; p. 114.

Regina Company, The. (See Koch, Henry, assignor.)

Regli, Edward C., Duluth, Minn. Tick-tack toy. No. 972,644; Oct. 11; Sp. p. 2479; Gaz. vol. 159; p. 422.

Regondi, Giuseppe, New Brighton, N. Y. Music-leaf turner. No. 974,826; Nov. 8; Sp. p. 1685; Gaz. vol. 160; p. 283.

Reguin, Ernest L., San Francisco, Cal. Reversible window-sash. No. 980,005; Dec. 27; Sp. p. 5587; Gaz. vol. 161; p. 964.

Rehak, John R., *et al.* (See Crump, Robert B., assignor.)

Rehfuss, Martin O. (See Hoff and Rehfuss.)

Rehländer, Paul, Charlottenburg, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Vanadium acid oxalate and making same. No. 979,887; Dec. 27; Sp. p. 5352; Gaz. vol. 161; p. 925.

Rehler, Frank H., *et al.* (See Davis, Homer L., assignor.)

Rehlin, Charles J., Pittsburg, Pa. Car-door-operating mechanism. No. 954,698; Apr. 12; Sp. p. 2145; Gaz. vol. 153; p. 376.

Rehlin, Charles J., assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-stake. No. 946,562; Jan. 18; Sp. p. 3483; Gaz. vol. 150; p. 585.

Rehm, Heinrich. (See Meinelt and Rehm.)

Rehmeyer, Roy, Chicago, Ill. Device for cranking gasolene or other engines. No. 980,006; Dec. 27; Sp. p. 5589; Gaz. vol. 161; p. 965.

Rehor, Joseph. (See Kundtz and Rehor.)

Rehrig, Dennis. (See Lovatt and Rehrig.)

Rehrig, Pierce F. (See Lovatt and Rehrig.)

Reichardt, Frederick O., Marietta, Ohio. Belt-loop. No. 955,996; Apr. 26; Sp. p. 4995; Gaz. vol. 153; p. 883.

Reichardt, Reinhold. (See Gilliland, Lee O., assignor.)

Reichardt, Reinhold, *et al.* (See Sharpneck, Frank A., assignor.)

Reichelt, Martha E., Newark, N. J. Syringe-bidet. No. 946,648; Jan. 18; Sp. p. 3658; Gaz. vol. 150; p. 613.

Reichenbach, Henry M., Chicago, Ill. Carbureter. No. 976,692; Nov. 22; Sp. p. 5735; Gaz. vol. 160; p. 971.

Reichenbach, William F., Rochester, N. Y. Sleeve-protector. No. 976,693; Nov. 22; Sp. p. 5738; Gaz. vol. 160; p. 972.

Reichert, John, Racine, Wis. Lawn-trimming shovel. No. 962,785; June 28; Sp. p. 5385; Gaz. vol. 155; p. 940.

Reichert, Paul F. (See Ayling and Reichert.)

Reichert, Walter, Des Moines, Iowa. Car-door seal. No. 945,804; Jan. 11; Sp. p. 1766; Gaz. vol. 150; p. 296.

Reichhelm, George L., Jersey City, N. J. Pliers. No. 951,454; Mar. 8; Sp. p. 2024; Gaz. vol. 152; p. 351.

Reichmann, Albert. (See Khuen and Reichmann.)

Reichmann, Friedrich A., Barmen, Germany. Opening for spinning and weaving purposes the vegetable fibers contained in straw, grasses, bast, harl, and the like. No. 946,272; Jan. 11; Sp. p. 2779; Gaz. vol. 150; p. 462.

Reickhoff, Daniel. (See Bovair and Reickhoff.)

Reid, Alban H., Philadelphia, Pa. Machine-support. No. 964,939; July 19; Sp. p. 4222; Gaz. vol. 156; p. 705.

Reid, Alfred J. H., Henderson, Tenn. Planter. No. 976,292; Nov. 22; Sp. p. 4887; Gaz. vol. 160; p. 835.

Reid, George B., Aberdeen, Wash. Gun. No. 955,436; Apr. 19; Sp. p. 3753; Gaz. vol. 153; p. 660.

Reid, James H., Newark, N. J. Electric furnace. No. 947,849; Feb. 1; Sp. p. 153; Gaz. vol. 151; p. 25.

Reid, James H., Newark, N. J. Apparatus for heating and separating metals. No. 950,028; Feb. 22; Sp. p. 4803; Gaz. vol. 151; p. 845.

Reid, James H., Newark, N. J. Treating ores and metals. No. 950,116; Feb. 22; Sp. p. 4967; Gaz. vol. 151; p. 873.

Reid, James H., Newark, N. J. Combined electric arc or resistance and induction furnace. No. 956,544; May 3; Sp. p. 83; Gaz. vol. 154; p. 15.

Reid, James H., Newark, N. J. Electric furnace. No. 968,079; Aug. 23; Sp. p. 4772; Gaz. vol. 157; p. 830.

Reid, James H., Newark, N. J. Means for regulating electrodes in electric furnaces. No. 968,603; Aug. 30; Sp. p. 5891; Gaz. vol. 157; p. 1038.

Reid, James H., Newark, N. J., assignor of one-half to G. Goodwin, Ottawa, Canada. Hardening metallic surfaces. No. 966,121; Aug. 2; Sp. p. 582; Gaz. vol. 157; p. 95.

Reid, John, London, assignor of one-half to J. P. O'Donnell, Westminster, England. Collar-box and the like. No. 979,701; Dec. 27; Sp. p. 4923; Gaz. vol. 161; p. 863.

Reid, John F., Little Falls, Minn. Ice-cream-cone holder. No. 948,524; Feb. 8; Sp. p. 1570; Gaz. vol. 151; p. 277.

Reid, John P. (See Robinett and Reid.)

Reid, Pettis A., Richmond, Ind. Fence-stretcher. No. 969,980; Sept. 13; Sp. p. 1809; Gaz. vol. 158; p. 308.

Reid, Robert P., Watervliet, N. Y. Seal-lock. No. 966,122; Aug. 2; Sp. p. 585; Gaz. vol. 157; p. 96.

Reid, Thorburn. (See Leet, Lynn T., assignor.)

Reid, William H. (See Penney, Harold D., assignor.)

Reid, William H., Brooklyn, N. Y. Burner for gas-lamps. No. 979,335; Dec. 20; Sp. p. 4151; Gaz. vol. 161; p. 716.

Reid, William L. (See Mellin and Reid.)

Reid, William L., Schenectady, N. Y. Lathe-dog. No. 955,688; Apr. 19; Sp. p. 4323; Gaz. vol. 153; p. 747.

Reiff, Charles G., Ambia, Ind. Farm-roller. No. 976,293; Nov. 22; Sp. p. 4890; Gaz. vol. 160; p. 835.

Reiff, Wellington N., and J. A. Krauss, East Greenville, Pa. Shuttle. No. 979,203; Dec. 20; Sp. p. 3882; Gaz. vol. 161; p. 671.

Reighter, Frank C., Chicago, Ill. Side and back comb. No. 955,689; Apr. 19; Sp. p. 4324; Gaz. vol. 153; p. 747.

Reiley, George K., Scottdale, Pa. Rail-jack. No. 958,539; May 17; Sp. p. 4636; Gaz. vol. 154; p. 762.

Reilly, Dennis E., Derby, Conn. Level. No. 971,792; Oct. 4; Sp. p. 590; Gaz. vol. 159; p. 103.

Reilly, Edward J., Eganville, Ontario, Canada. Sash-balance. No. 962,387; June 21; Sp. p. 4497; Gaz. vol. 155; p. 776.

Reilly, James R. (See Fuller and Reilly.)

Reilly, Matthew A. (See Aldridge, Thomas J., assignor.)

Reilly, Matthew A. (See Aldridge and Reilly.)

Reilly, Michael E., assignor to J. B. Godfrey, Portland, Oreg. Marble-shooter. No. 959,028; May 24; Sp. p. 5667; Gaz. vol. 154; p. 953.

Reilly, Patrick, Philadelphia, Pa. Wrench. No. 978,208; Dec. 13; Sp. p. 1718; Gaz. vol. 161; p. 302.

Reilly, Thomas A. (See Fuller and Reilly.)

Reilly, William W. (See Elliott and Reilly.)

Reily, Isaac C., Natchez, Miss. Hat-remodeling tool. No. 956,865; May 3; Sp. p. 798; Gaz. vol. 154; p. 126.

Reily, John P., and J. B. Noyes, St. Louis, Mo. Sectional letter and design. No. 972,406; Oct. 11; Sp. p. 1930; Gaz. vol. 159; p. 339.

Reim, Anton, Colorado Springs, Colo. Lady's hat-fastener. No. 971,474; Sept. 27; Sp. p. 4905; Gaz. vol. 158; p. 859.

Reimers, Gerhard, Milltown, N. J., assignor of one-half to F. A. Sondheimer, New York, N. Y. Condenser. No. 974,598; Nov. 1; Sp. p. 1189; Gaz. vol. 160; p. 182.

Rein, Robert, Berlin, Germany. Calculating-machine. No. 947,188; Jan. 18; Sp. p. 4808; Gaz. vol. 150; p. 792.

Rein, Robert, Berlin, Germany. Reversing mechanism for calculating-machines. No. 957,095; May 3; Sp. p. 1280; Gaz. vol. 154; p. 203.

Reinecke, John P., Pittsburg, assignor to Pittsburg Water Heater Company, Allegheny, Pa. Burner. No. 976,294; Nov. 22; Sp. p. 4891; Gaz. vol. 160; p. 836.

Reinehr, John, Savanna, assignor of one-half to E. Laas, Chicago, Ill. Rail-laying apparatus. No. 948,023; Feb. 1; Sp. p. 503; Gaz. vol. 151; p. 82.

Reinehr, John, Savanna, Ill., assignor to Rail Laying Machine Company. Vehicle. No. 961,532; June 14; Sp. p. 2668; Gaz. vol. 155; p. 464.

Reinehr, Nikolaus, Schöneberg, near Berlin, Germany. Safety-lock. No. 975,717; Nov. 15; Sp. p. 3642; Gaz. vol. 160; p. 613.

Reineking, Frederick C., Jersey City, N. J., assignor to Rankand Company. Short-circuit detector. No. 966,766; Aug. 9; Sp. p. 2032; Gaz. vol. 157; p. 338.

Reiner, Harry M. and O., New York, N. Y. Repeating watch. No. 959,165; May 24; Sp. p. 5972; Gaz. vol. 154; p. 998.

Reiner, Oscar. (See Reiner, Harry M. and O.)

Reinert, Jacob, L., and P., Pittsburg, Pa. Toy rocker. No. 968,418; Aug. 23; Sp. p. 5491; Gaz. vol. 157; p. 946.

Reinert, Louis. (See Reinert, Jacob, L., and P.)

Reinert, Peter. (See Reinert, Jacob, L., and P.)

Reiness, Israel, New York, N. Y. Hat-pin. No. 945,603; Jan. 4; Sp. p. 1274; Gaz. vol. 150; p. 199.

Reinforced Concrete Pipe Company. (See Phelan, John M., assignor.)

Reinforcement Supply Company. (See Bertin, Paul E. and R. L., assignors.)

Reinhardt, George F., Boston, Mass. Lift compressing and distributing machine. No. 976,215; Nov. 22; Sp. p. 4682; Gaz. vol. 160; p. 807.

Reinhardt, James H., East Orange, N. J., assignor to American Bank Note Company. Numbering-machine. No. 976,295; Nov. 22; Sp. p. 4893; Gaz. vol. 160; p. 836.

Reinhardt, Louis W. (See Alden and Reinhardt.)

Reinhardt, Robert S., Lincolnton, N. C. Stop-motion for doubling and twisting machines. No. 959,263; May 24; Sp. p. 6163; Gaz. vol. 154; p. 1030.

Reinhardt, William A., Ashland, Wis. Piston-ring. No. 949,660; Feb. 15; Sp. p. 3911; Gaz. vol. 151; p. 681.

Reinhart, Emil J., and A. N. Ruddock, Tunnelton, Pa. Chain-link. No. 963,941; July 12; Sp. p. 2022; Gaz. vol. 156; p. 333.

Reinhart, Heister H. and I., Moselem, and E. G. Lesher, Reading, Pa. Clothes-line reel. No. 962,099; June 21; Sp. p. 3882; Gaz. vol. 155; p. 679.

Reinhart, Irvin. (See Reinhart and Lesher.)

Reinhart, James P., Philadelphia, Pa. Toy. No. 955,550; Apr. 19; Sp. p. 3987; Gaz. vol. 153; p. 700.

Reinheimer, David F., New Paris, Ohio. Combination wagon and car. No. 968,419; Aug. 23; Sp. p. 5492; Gaz. vol. 157; p. 947.

Reinig, Michael C. (See Engelhard and Reinig.)

Reinikka, Antti, Govan, Wash. Lock. No. 947,941; Feb. 1; Sp. p. 347; Gaz. vol. 151; p. 55.

Reinle, August, Baltimore, Md. Show-case. No. 952,945; Mar. 22; Sp. p. 5084; Gaz. vol. 152; p. 913.

Alphabetical list of patentees—Continued.

Reinmann, Charles F. (See Pearl and Reinmann.)
Reinoehl, Charles W., Steelton, and C. W. Long, Fort Hunter, Pa. Switch-stand. No. 945,344; Jan. 4; Sp. p. 743; Gaz. vol. 150; p. 114.
Reinoehl, Charles W., and B. L. Weaver, Steelton, Pa. Nut-lock. No. 946,154; Jan. 11; Sp. p. 2513; Gaz. vol. 150; p. 419.
Reinoehl, Charles W., and B. L. Weaver, Steelton, Pa. Railway structure. No. 955,284; Apr. 19; Sp. p. 3425; Gaz. vol. 153; p. 609.
Reinoehl, Charles W., and B. L. Weaver, Steelton, Pa. Renewing worn railway-switch rails. No. 964,186; July 12; Sp. p. 2524; Gaz. vol. 156; p. 416.
Reinoehl, Charles W., and W. M. Henderson, Steelton, Pa. Railway-frog. No. 963,325; July 5; Sp. p. 728; Gaz. vol. 156; p. 105.
Reinoehl, Charles W., and W. M. Henderson, Steelton, Pa. Railway-frog. No. 963,326; July 5; Sp. p. 731; Gaz. vol. 156; p. 105.
Reinoehl, Charles W., Steelton, and M. W. Long, Harrisburg, Pa. Car-derailing device. No. 964,185; July 12; Sp. p. 2522; Gaz. vol. 156; p. 415.
Reinsberg, Simon, Quincy, Ill. Bottling-machine. No. 955,551; Apr. 19; Sp. p. 3988; Gaz. vol. 153; p. 700.
Reis, Henry. (See Müller and Reis.)
Reisacher, John, assignor to The George Lawrence Co., Portland, Oreg. Thigh-pad for saddles. No. 950,678; Mar. 1; Sp. p. 454; Gaz. vol. 152; p. 74.
Reise, Charles J., Omaha, Nebr. Excavating-shovel. No. 955,285; Apr. 19; Sp. p. 3427; Gaz. vol. 153; p. 609.
Reiser, Louis A., Waterbury, Conn. Paper-cutter. No. 976,496; Nov. 22; Sp. p. 5343; Gaz. vol. 160; p. 906.
Reising, Frank L., Piper City, Ill. Road grader and scraper. No. 958,891; May 24; Sp. p. 5413; Gaz. vol. 154; p. 907.
Reisman, Elias, New York, N. Y. Coat-facing. No. 955,690; Apr. 19; Sp. p. 4324; Gaz. vol. 153; p. 747.
Reisner, William H., and V. E. Middlekauff, Hagerstown, Md. Indicating surface-gage. No. 968,884; Aug. 30; Sp. p. 6502; Gaz. vol. 157; p. 1132.
Reiss, George T., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Car-wheel press. No. 959,071; May 24; Sp. p. 5778; Gaz. vol. 154; p. 967.
Reiss, Gustave, Crete, Nebr. Saw-set. No. 978,646; Dec. 13; Sp. p. 2679; Gaz. vol. 161; p. 456.
Reissner, Hans, Aix-la-Chapelle, Germany. Gliding surface for operating in air or water. No. 958,009; May 17; Sp. p. 3306; Gaz. vol. 154; p. 576.
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 949,305; Feb. 15; Sp. p. 3191; Gaz. vol. 151; p. 563.
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Fluid-pressure thrust-bearing. No. 949,989; Feb. 22; Sp. p. 4696; Gaz. vol. 151; p. 830.
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 968,420; Aug. 23; Sp. p. 5495; Gaz. vol. 157; p. 947.
Reiter, Elza H., Elgin, Ill. Flue-cleaner. No. 966,051; Aug. 2; Sp. p. 454; Gaz. vol. 157; p. 73.
Reiter, Heinrich M., Asheville, N. C. Hitching device. No. 962,243; June 21; Sp. p. 4190; Gaz. vol. 155; p. 728.
Reiter, Heinrich M., Asheville, N. C. Safety-brake. No. 979,336; Dec. 20; Sp. p. 4153; Gaz. vol. 161; p. 716.
Reiter, William. (See Klein, Hermann, assignor.)
Reith, George C., and G. F. Slade, Philadelphia, Pa. Coin-selector. No. 973,302; Oct. 18; Sp. p. 3943; Gaz. vol. 159; p. 675.
Reither, Peter, Bennettville, Minn. Baling-tie. No. 961,258; June 14; Sp. p. 2062; Gaz. vol. 155; p. 371.
Reither, Peter, Bennettville, Minn. Fish-hook. No. 961,259; June 14; Sp. p. 2064; Gaz. vol. 155; p. 371.
Reithmiller, Sadie A., Smicksburg, Pa. Umbrella-holder. No. 959,072; May 24; Sp. p. 5780; Gaz. vol. 154; p. 968.
Reitmeyer, Charles A., Freeport, N. Y. Implement for holding grass-hooks or sickles. No. 980,007; Dec. 27; Sp. p. 5590; Gaz. vol. 161; p. 965.
Reitz, Alexander, Bond, Md. Sawmill-carriage scraper. No. 965,013; July 19; Sp. p. 4369; Gaz. vol. 156; p. 728.
Reitz, Charles E., Reitz, Pa. Automatic ventilator. No. 961,016; June 7; Sp. p. 1560; Gaz. vol. 155; p. 262.
Reitz, Heinrich, Griesheim-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Preparing caustic soda. No. 971,144; Sept. 27; Sp. p. 4269; Gaz. vol. 158; p. 752.
Reitz, Heinrich, Griesheim-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Preparing caustic potash. No. 971,145; Sept. 27; Sp. p. 4270; Gaz. vol. 158; p. 752.
Reitze, Bernard J. (See Watson, Anthony W., assignor.)
Reizenstein, Emile, Waltham, Mass. Safety-razor. No. 953,058; Mar. 29; Sp. p. 5312; Gaz. vol. 152; p. 979.
Reizenstein, Emile, Brookline, Mass. Coin-holder. No. 954,589; Apr. 12; Sp. p. 1903; Gaz. vol. 153; p. 339.
Reliable Tool & Specialty Company. (See Neerup, Peter, assignor.)
Reliance Ball Bearing Door Hanger Company. (See Cossey, Myron, assignor.)
Reliance Elevator Company. (See Anderson, Carl A., assignor.)
Reliance Glove Company. (See Stein and Knapik, assignors.)
Reliance Speedmeter Co. (See Blanchard, Leon E., assignor.)
Reliefograph Company. (See Erdbrügger, Gustav, assignor.)
Relindo Cushion Shoe Company. (See Dow, Joseph A., assignor.)
Remané, Hermann, Berlin, E. Gottschalk, Charlottenburg, and E. Hurwitz, assignors to Deutsche Gasglühlicht Aktien Gesellschaft, (Auergesellschaft,) Berlin, Germany. Electric glow-lamp. No. 974,296; Nov. 1; Sp. p. 493; Gaz. vol. 160; p. 72.
Remde, Edward H., assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Vehicle-body structure. No. 958,940; May 24; Sp. p. 5501; Gaz. vol. 154; p. 923.
Remington, Alfred M., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Forming tool-holding sockets. No. 966,952; Aug. 9; Sp. p. 2410; Gaz. vol. 157; p. 396.
Remington Typewriter Company. (See Ballou, George F., assignor.)
Remington Typewriter Company. (See Roche, William J., assignor.)
Remington Typewriter Company. (See Trouslot, Eugene C., assignor.)
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Remington Typewriter Company. (See Yaw, Clio B., assignor.)
Remington, William M. (See Duryea and Remington.)
Remington, Wolcott, Stamford, Conn. Gasifying, igniting, and controlling the combustion of fuel. No. 951,093; Mar. 1; Sp. p. 1276; Gaz. vol. 152; p. 209.
Remisch, Edward T. (See Holtfoth and Remisch.)
Remlinger, Theodore, Elizabeth, N. J. Padlock. No. 971,406; Sept. 27; Sp. p. 4785; Gaz. vol. 158; p. 837.
Remmen, Jörgen, and G. V. Sborigi, Donora, Pa. Treating rods for wire. No. 955,552; Apr. 19; Sp. p. 4000; Gaz. vol. 153; p. 701.
Remmers, John, Jr., *et al.* (See Brooks, Evert P., assignor.)
Remy, Benjamin P. (See Remy, Frank I. and B. P.)
Remy, Benjamin P. and F. I., assignors to The Remy Electric Company, Anderson, Ind. Shaft-coupling. No. 958,540; May 17; Sp. p. 4637; Gaz. vol. 154; p. 762.
Remy, Benjamin P. and F. I., assignors to Remy Electric Company, Anderson, Ind. Magneto-electric generator. No. 959,166; May 24; Sp. p. 5975; Gaz. vol. 154; p. 999.
Remy Electric Company, The. (See Remy, Benjamin P. and F. I., assignors.)
Remy Electric Company. (See Remy, Frank I. and B. P., assignors.)
Remy, Frank I. (See Remy, Benjamin P. and F. I.)
Remy, Frank I. and B. P., assignors to Remy Electric Company, Anderson, Ind. Combined magneto-electric generator and engine. No. 949,634; Feb. 15; Sp. p. 3863; Gaz. vol. 151; p. 673.
Remy, Frank I. and B. P., assignors to Remy Electric Company, Anderson, Ind. Magneto-electric generator. No. 957,714; May 10; Sp. p. 2572; Gaz. vol. 154; p. 445.
Renard, Albert. (See Renard, Charles and A.)
Renard, Charles and A., Nonancourt, France. Loom for weaving oriental and other knot-stitch carpets. No. 969,565; Sept. 6; Sp. p. 889; Gaz. vol. 158; p. 141.
Renard, Charles F., Paris, France. Elastic wheel. No. 954,004; Apr. 5; Sp. p. 637; Gaz. vol. 153; p. 114.
Renear, Charles W., assignor to Renear Company Limited, Honolulu, Hawaii. Grinding-machine. No. 954,134; Apr. 5; Sp. p. 903; Gaz. vol. 153; p. 157.
Renear, Charles W., assignor to Renear Company Limited, Honolulu, Hawaii. Grinding-mill. No. 973,811; Oct. 25; Sp. p. 5028; Gaz. vol. 159; p. 874.
Renear Company Limited. (See Renear, Charles W., assignor.)
Reneaud, Joseph. (See Clement, Joseph, assignor.)
Renek, Frank, New York, N. Y. Piano-casing. No. 951,620; Mar. 8; Sp. p. 2345; Gaz. vol. 152; p. 407.
Reneker, James P., Logansport, Ind. Self-clearing segment for lathes. No. 964,316; July 12; Sp. p. 2790; Gaz. vol. 156; p. 461.
Renfrew Manufacturing Company. (See Thomson, Charles R., assignor.)
Renfro, Alva D., assignor to Renfro Speed-O-Meter Company, Detroit, Mich. Speed indicator and recorder. No. 976,694; Nov. 22; Sp. p. 5739; Gaz. vol. 160; p. 972.
Renfro, Robert E. (See Rieth, Charles H., assignor.)
Renfro Speed-O-Meter Company. (See Renfro, Alva D., assignor.)
Renfrow, William C. (See Misner, Edgar D., assignor.)
Rengert, Arthur G., and R. S. Schwandt, Detroit, Mich. Banjo. No. 977,127; Nov. 29; Sp. p. 6746; Gaz. vol. 160; p. 1148.
Renick, Joseph D., Loudonville, and K. C. Krick, Columbus, Ohio. Sheet-metal seal for pipe connections. No. 969,981; Sept. 13; Sp. p. 1811; Gaz. vol. 158; p. 308.
Renick, Joseph D., Loudonville, and K. C. Krick, Columbus, Ohio. Sheet-metal seal for cocks. No. 971,639; Oct. 4; Sp. p. 273; Gaz. vol. 159; p. 49.
Renik, Andrew, Kenosha, Wis. Rotary engine. No. 975,637; Nov. 15; Sp. p. 3469; Gaz. vol. 160; p. 588.

Renken, Anton F., Kramer, Nebr. Gopher-trap. No. 954,996; Apr. 12; Sp. p. 2833; Gaz. vol. 153; p. 481.
Renneburg, Frederick P., Baltimore, Md., assignor to Edward Renneburg & Sons Company. Apparatus for measuring fish. No. 953,436; Mar. 29; Sp. p. 6152; Gaz. vol. 152; p. 1104.
Rennells, William E., and W. D. Engle, Aliquippa, Pa. Transferring device. No. 950,957; Mar. 1; Sp. p. 1036; Gaz. vol. 152; p. 166.
Rennen, Carl E., Oberhomburg, and W. Romeiser, Frankfort-on-the-Main, Germany. Spring suspension arrangement for vehicles. No. 971,475; Sept. 27; Sp. p. 4907; Gaz. vol. 158; p. 859.
Renner, Charles F., Pittsburg, Pa. Game apparatus. No. 947,124; Jan. 18; Sp. p. 4675; Gaz. vol. 150; p. 772.
Rennerfelt, Gustaf, Scranton, Pa. Roller-bearing. No. 951,288; Mar. 8; Sp. p. 1671; Gaz. vol. 152; p. 296.
Rennerfelt, Gustaf, Scranton, Pa. Roller-bearing. No. 977,128; Nov. 29; Sp. p. 6747; Gaz. vol. 160; p. 1148.
Rennie, Joseph. (See Collett and Rennie.)
Rennie, William J., Montreal, Quebec, Canada, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine. No. 945,046; Jan. 4; Sp. p. 79; Gaz. vol. 150; p. 15.
Rennie, William L. (See McDonald and Rennie.)
Reno, Jesse W., New York, N. Y. Inclined elevator. No. 963,176; July 5; Sp. p. 378; Gaz. vol. 156; p. 53.
Reno, Jesse W., New York, N. Y. Power-transmission gearing. No. 965,408; July 26; Sp. p. 5192; Gaz. vol. 156; p. 891.
Reno, Jesse W., New York, N. Y. Truck-conveyer. No. 974,918; Nov. 8; Sp. p. 1903; Gaz. vol. 160; p. 314.
Reno, Joseph, assignor to American Optical Company, Southbridge, Mass. Eyeglasses. No. 979,095; Dec. 20; Sp. p. 3618; Gaz. vol. 161; p. 631.
Renshaw, Clarence, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed regulation for dynamo-electric machines. No. 974,433; Nov. 1; Sp. p. 805; Gaz. vol. 160; p. 121.
Renshaw, David, Philadelphia, Pa. Vault or sepulcher. No. 951,493; Mar. 8; Sp. p. 2107; Gaz. vol. 152; p. 364.
Rensing, Theodor J., Leipzig, assignor to Körting & Mathiesen Aktiengesellschaft, Leutzsch, near Leipzig, Germany. Electric-arc lamp. No. 947,979; Feb. 1; Sp p 421; Gaz. vol. 151; p. 67.
Rentz, Bert, Wells, Minn. Fountain-pen. No. 955,475; Apr. 19; Sp. p. 3835; Gaz. vol. 153; p. 674.
Renzenbrink, Albert L., *et al.* (See Renzenbrink, Charles L., assignor.)
Renzenbrink, Charles L., assignor of one-third to A. L. Renzenbrink and one-third to E. L. Renzenbrink, Canton, Ohio. Shade and curtain bracket. No. 952,841; Mar. 22; Sp. p. 4880; Gaz. vol. 152; p. 878.
Renzenbrink, Edward L., *et al.* (See Renzenbrink, Charles L., assignor.)
Reo Motor Car Company. (See Fillingham, Joseph P., assignor.)
Reo Motor Car Company. (See Olds, Ransom E., assignor.)
Repass, James A., New Augusta, assignor of one-fourth to H. H. Hammer and one-fourth to E. M. Hornaday, Indianapolis, Ind. Ratchet-wrench. No. 968,080; Aug. 23; Sp. p. 4773; Gaz. vol. 157; p. 830.
Replogle, Lew W., Chicago, Ill. Toy. No. 973,303; Oct. 18; Sp. p. 3951; Gaz. vol. 159; p. 676.
Repp, Marion, Otsego, Mich. Slot-guard for paper-trimming machines. No. 971,146; Sept. 27; Sp. p. 4271; Gaz. vol. 158; p. 752.
Republic Rubber Company, The. (See Mell, Tod J., assignor.)
Requa, Mark L. (See Perkins and Requa.)
Resch, Henry, Bayonne, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 973,385; Oct. 18; Sp. p. 4129; Gaz. vol. 159; p. 704.
Resch, Hermann, assignor to H. Resch, Jr., and C. R. O. Gutsch, Lörrach, Germany. Apparatus for chemical cleaning. No. 959,883; May 31; Sp. p. 7478; Gaz. vol. 154; p. 1264.
Resch, Hermann, assignor to H. Resch, Jr., and C. R. O. Gutsch, Lörrach, Germany. Apparatus for washing and rinsing clothes and the like by means of benzene. No. 969,118; Aug. 30; Sp. p. 6970; Gaz. vol. 157; p. 1213.
Reschke, William F., Wichita, Kans. Spring-support for vehicle-tongues. No. 957,096; May 3; Sp. p. 1282; Gaz. vol. 154; p. 204.
Resek, Simon, Cleveland, Ohio. Water-cock. No. 952,048; Mar. 15; Sp. p. 3224; Gaz. vol. 152; p. 580.
Resh, Amsey M. (See Resh and Trevillian.)
Resh, Arthur I., W. J. Trevillian, and A. M. Resh, Freeport, Ill.; said Trevillian assignor to said A. M. and A. I. Resh. Razor-blade holder. No. 953,553; Mar. 29; Sp. p. 6400; Gaz. vol. 152; p. 1146.
Resh, Claude K., Freeport, Ill. Label cabinet and moistener. No. 957,378; May 10; Sp. p. 1901; Gaz. vol. 154; p. 330.
Resinelli, Francesco, Vado Liguire, Italy. Furnace for the production of cast iron and steel. No. 975,998; Nov. 15; Sp. p. 4191; Gaz. vol. 160; p. 710.
Resslar, Charlie M., Jeannette, Pa. Window-glass-drawing machine. No. 951,222; Mar. 8; Sp. p. 1527; Gaz. vol. 152; p. 275.
Restucci, Giuseppe, Naples, Italy. Steam-controlling device. No. 957,097; May 3; Sp. p. 1284; Gaz. vol. 154; p. 204.
Retisky, Venceslav, assignor of one-half to J. A. Murray, New York, N. Y. Faucet. No. 964,317; July 12; Sp. p. 2793; Gaz. vol. 156; p. 461.
Rettich, Frank D., Cincinnati, Ohio. Label-attaching means. No. 972,917; Oct. 18; Sp. p. 3106; Gaz. vol. 159; p. 544.
Rettig, Frederick A. (See Hughes and Rettig.)
Rettig, George W. (See Jargick, Peter P., assignor.)
Rettig, Wilhelm, Berlin, Germany. Stiffening-skeleton for balloon-coverings. No. 974,434; Nov. 1; Sp. p. 807; Gaz. vol. 160; p. 122.
Reubel, Henry, New York, N. Y. Curtain-fixture. No. 965,658; July 26; Sp. p. 5757; Gaz. vol. 156; p. 979.
Reubold, Karl, Linden, near Hanover, Germany. Boiler-feed regulator. No. 970,951; Sept. 20; Sp. p. 3862; Gaz. vol. 158; p. 659.
Reubold, Wilhelm, Karlshorst, near Berlin, Germany. Elevator. No. 957,379; May 10; Sp. p. 1903; Gaz. vol. 154; p. 331.
Reuhl Moulding Manufacturing Company, The. (See Sander, George, assignor.)
Reukauf, Edward, Sr., Philadelphia, Pa. Curtain-roller. No. 955,691; Apr. 19; Sp. p. 4326; Gaz. vol. 153; p. 748.
Reuleaux, Josef, Wilkinsburg, assignor to A. Laughlin, Sewickley, Pa. Gas-producer. No. 948,249; Feb. 1; Sp. p. 960; Gaz. vol. 151; p. 157.
Reusch, William L., Yorkton, Saskatchewan, Canada. Insulator. No. 961,646; June 14; Sp. p. 2904; Gaz. vol. 155; p. 502.
Reusch, William L., Yorkton, Saskatchewan, Canada. Monkey-wrench. No. 968,689; Aug. 30; Sp. p. 6108; Gaz. vol. 157; p. 1068.
Reusche, Louis, New York, N. Y. Semisolid-paint package. No. 975,718; Nov. 15; Sp. p. 3642; Gaz. vol. 160; p. 613.
Reuter, Baptist, Höchst-on-the-Main, Germany, assignor, by mesne assignments, to H. A. Metz & Co., New York, N. Y. Making compounds of the active substance of suprarenal glands, and said compounds. No. 970,112; Sept. 13; Sp. p. 2080; Gaz. vol. 158; p. 353.
Reuter, Theodor, Winterthur, Switzerland. Internal-combustion engine. No. 968,690; Aug. 30; Sp. p. 6110; Gaz. vol. 157; p. 1068.
Reuter, Theodor, Winterthur, Switzerland. Internal-combustion engine. No. 971,793; Oct. 4; Sp. p. 591; Gaz. vol. 159; p. 103.
Reuter, William J., St. Louis, Mo. Sheet-metal vessel. No. 957,901; May 17; Sp. p. 2973; Gaz. vol. 154; p. 537.
Reuter, William J., and W. H. Hatz, St. Louis, Mo. Sheet-metal vessel. No. 964,554; July 19; Sp. p. 3334; Gaz. vol. 156; p. 570.
Reuther, John, East Aurora, N. Y. Potato-digger. No. 952,946; Mar. 22; Sp. p. 5085; Gaz. vol. 152; p. 913.
Reuther, John, East Aurora, N. Y. Potato-digger. No. 967,556; Aug. 16; Sp. p. 3670; Gaz. vol. 157; p. 632.
Reuther, John, East Aurora, N. Y. Potato-digger. No. 967,557; Aug. 16; Sp. p. 3673; Gaz. vol. 157; p. 632.
Reutzel, Conrad, and H. Frey, Pittsburg, Pa. Planter. No. 951,026; Mar. 1; Sp. p. 1152; Gaz. vol. 152; p. 188.
Revaillot, Claude, Nice, France. Spray device. No. 952,947; Mar. 22; Sp. p. 5087; Gaz. vol. 152; p. 913.
Revaillot, Claude, Nice, France. Pipe-joint. No. 974,517; Nov. 1; Sp. p. 1022; Gaz. vol. 160; p. 152.
Reveley, Sydney C., Gardner, Kans. Manure-spreader. No. 963,249; July 5; Sp. p. 577; Gaz. vol. 156; p. 79.
Revere Rubber Company. (See Cobb, Henry Z., assignor.)
Revere Rubber Company. (See Gussenhoven, Walter, assignor.)
Reville, Frederick J., trustee. (See Moore, Robert A., assignor.)
Revolving Stove Company, The. (See Ziganek, Ferdinand, assignor.)
Rew, Charles M., assignor of one-fourth to M. L. Rew, Rogers, Ark. Clothes-line prop. No. 967,834; Aug. 16; Sp. p. 4237; Gaz. vol. 157; p. 724.
Rew, Martha L. (See Rew, Charles M., assignor.)
Rex, David J., Ingram, Pa. Folding-box construction. No. 976,914; Nov. 29; Sp. p. 6234; Gaz. vol. 160; p. 1073.
Rexicker, Martin J., North Tonawanda, assignor of one-half to A. G. Ensign, Tonawanda, N. Y. Muzzle for dogs, &c. No. 953,437; Mar. 29; Sp. p. 6154; Gaz. vol. 152; p. 1105.
Reyburn, John E. (See Rankin, William K., assignor.)
Reyman, Philip S., assignor to J. C. Kelch, Mount Carmel, Ill. Stave-jointing mechanism. No. 974,518; Nov. 1; Sp. p. 1023; Gaz. vol. 160; p. 152.
Reymore, Joseph D., and R. E. Van Cise, Otego, N. Y. Apparatus for filtering milk. No. 950,211; Feb. 22; Sp. p. 5169; Gaz. vol. 151; p. 907.
Reynaud, L. L., *et al.* (See Underwood, Charles W., assignor.)
Reynders, Arthur B., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Insulating material. No. 952,467; Mar. 22; Sp. p. 4056; Gaz. vol. 152; p. 749.

Alphabetical list of patentees—Continued.

Reynders, John V., Steelton, assignor to The Pennsylvania Steel Company, Philadelphia, Pa. Testing-machine. No. 955,202; Apr. 19; Sp. p. 3250; Gaz. vol. 153; p. 582.
Reynolds, Abby E., administratrix. (See Reynolds, George H.)
Reynolds, Afton G., assignor to Amusement Park Railway Co., St. Louis, Mo. Carousel. No. 974,599; Nov. 1; Sp. p. 1191; Gaz. vol. 160; p. 182.
Reynolds, Alleyne, London, England. Manufacture of steel. No. 963,652; July 5; Sp. p. 1380; Gaz. vol. 156; p. 215.
Reynolds, Alleyne, London, England. Manufacture of steel. No. 979,337; Dec. 20; Sp. p. 4155; Gaz. vol. 161; p. 716.
Reynolds, Arzeno W., Perris, Cal. Wave-motor. No. 967,437; Aug. 16; Sp. p. 3425; Gaz. vol. 157; p. 590.
Reynolds, Bruce, Cincinnati, Ohio. Toilet utensil. No. 977,129; Nov. 29; Sp. p. 6748; Gaz. vol. 160; p. 1149.
Reynolds, Charles, Jersey City, N. J. Necktie. No. 949,366; Feb. 15; Sp. p. 3331; Gaz. vol. 151; p. 584.
Reynolds, Charles C. (See Harris, Lawrence P., assignor.)
Reynolds, Christopher, Carlock, Ill. Snow-machine. No. 962,917; June 28; Sp. p. 5626; Gaz. vol. 155; p. 985.
Reynolds, Clifford W., Omaha, Nebr. Storage-receptacle for frozen confections. No. 962,527; June 28; Sp. p. 4833; Gaz. vol. 155; p. 850.
Reynolds & Company, G. D. (See Hunt, Wilson P., assignor.)
Reynolds, De Elbert A., New York, N. Y. Concrete construction. No. 978,647; Dec. 13; Sp. p. 2680; Gaz. vol. 161; p. 456.
Reynolds, Francis M., Kittanning, Pa. Jack and wheel-support. No. 967,675; Aug. 16; Sp. p. 3906; Gaz. vol. 157; p. 670.
Reynolds, Frank C., Columbus, Ohio. Car-coupling. No. 971,640; Oct. 4; Sp. p. 274; Gaz. vol. 159; p. 49.
Reynolds, Frank C., assignor of one-half to H. R. Kuhn, Columbus, Ohio. Car-coupling. No. 970,553; Sept. 20; Sp. p. 3008; Gaz. vol. 158; p. 524.
Reynolds, Frank C., assignor to J. G. and E. T. Tussing, Columbus, Ohio. Lawn-trimmer. No. 964,882; July 19; Sp. p. 4116; Gaz. vol. 156; p. 685.
Reynolds, Frank D. (See Sachs and Reynolds.)
Reynolds, Fred S., Cranston, R. I. Adjustable collar-supporter. No. 968,801; Aug. 30; Sp. p. 6338; Gaz. vol. 157; p. 1105.
Reynolds, George, Fitzhugh, Okla. Hay-fork handle. No. 949,089; Feb. 15; Sp. p. 2757; Gaz. vol. 151; p. 490.
Reynolds, George H., Mansfield Depot, Conn., assignor to The Reynolds Ice Machine Company, New York, N. Y. Valve mechanism for air-compressors. No. 973,211; Oct. 18; Sp. p. 3776; Gaz. vol. 159; p. 645.
Reynolds, George H., Mansfield Depot, Conn., assignor to The Reynolds Ice Machine Company, New York, N. Y. Ice-making machine. No. 977,475; Dec. 6; Sp. p. 100; Gaz. vol. 161; p. 19.
Reynolds, George H., Mansfield Depot, Conn., assignor to The Reynolds Ice Machine Company, New York, N. Y. Compressor. No. 978,937; Dec. 20; Sp. p. 3256; Gaz. vol. 161; p. 577.
Reynolds, George H., deceased, Mansfield Depot, Conn.; A. E. Reynolds, administratrix, assignor to General Fire Extinguisher Company. Pipe-bending machine. No. 976,599; Nov. 22; Sp. p. 5565; Gaz. vol. 160; p. 941.
Reynolds, George T., Providence, R. I. Gasolene or oil filter. No. 974,519; Nov. 1; Sp. p. 1026; Gaz. vol. 160; p. 153.
Reynolds, Harry E., Olmsted Falls, Ohio. Single-delivery match-box. No. 945,047; Jan. 4; Sp. p. 82; Gaz. vol. 150; p. 15.
Reynolds, Henry J., Chicago, Ill. Envelop-sealing machine. No. 945,419; Jan. 4; Sp. p. 898; Gaz. vol. 150; p. 140.
Reynolds, Herman M. (See Drew, Nicholas, assignor.)
Reynolds, Herman M., Oneida, N. Y. Reinforced lathe-chuck. No. 960,705; June 7; Sp. p. 950; Gaz. vol. 155; p. 158.
Reynolds, Howard W., New York, N. Y. Hair-curling device. No. 952,138; Mar. 15; Sp. p. 3394; Gaz. vol. 152; p. 610.
Reynolds, Hubert G., *et al.* (See Gorrell, William R., assignor.)
Reynolds Ice Machine Company, The. (See Reynolds, George H., assignor.)
Reynolds, Irving H., and F. E. Norton, Youngstown, Ohio. Apparatus for drying air. No. 946,069; Jan. 11; Sp. p. 2339; Gaz. vol. 150; p. 389.
Reynolds, James F., Crete, Nebr., assignor to The American Railway Device Co. Automatic brake-setting mechanism. No. 977,967; Dec. 6; Sp. p. 1189; Gaz. vol. 161; p. 190.
Reynolds, James W., Chicago, Ill. Decoy-duck. No. 955,203; Apr. 19; Sp. p. 3252; Gaz. vol. 153; p. 583.
Reynolds, Jessee M. (See Henly, Thomas A., assignor.)
Reynolds, John F. (See Lewis and Reynolds.)
Reynolds, John H., and J. McDonagh, New York, N. Y. Amusement apparatus. No. 954,207; Apr. 5; Sp. p. 1103; Gaz. vol. 153; p. 183.
Reynolds, John L., Santa Fe, assignor of one-half to J. N. Broyles, San Marcial, N. Mex. Rail-joint. No. 966,052; Aug. 2; Sp. p. 455; Gaz. vol. 157; p. 73.
Reynolds, John M. (See Gustafson, Enszlin, and Reynolds.)
Reynolds, John P., Gadsden, Ala. Sink-bracket. No. 953,857; Apr. 5; Sp. p. 353; Gaz. vol. 153; p. 63.
Reynolds, John W., Erin, Tenn. Metallic roof-covering. No. 946,686; Jan. 18; Sp. p. 3745; Gaz. vol. 150; p. 626.
Reynolds, John W., Ballston Spa, N. Y. Screen for paper-making machines. No. 947,125; Jan. 18; Sp. p. 4677; Gaz. vol. 150; p. 772.
Reynolds, Marcus T. (See Whitman, James N., assignor.)
Reynolds, Morley P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Woven-wire fabric for screens. No. 966,599; Aug. 9; Sp. p. 1649; Gaz. vol. 157; p. 281.
Reynolds, Posey, Level Run, Va. Mail-box. No. 960,583; June 7; Sp. p. 704; Gaz. vol. 155; p. 116.
Reynolds, Reuben M., South Bend, Ind. Feed-water controller for boilers. No. 962,050; June 21; Sp. p. 3767; Gaz. vol. 155; p. 661.
Reynolds, Reuben M., and B. F. Page, South Bend, Ind. Feed-water controller. No. 964,690; July 19; Sp. p. 3724; Gaz. vol. 156; p. 619.
Reynolds, Robert R., Chicago, Ill. Window-lock. No. 955,476; Apr. 19; Sp. p. 3837; Gaz. vol. 153; p. 675.
Reynolds, Stephen D., Houston, Tex. Railway motor-car. No. 950,241; Feb. 22; Sp. p. 5231; Gaz. vol. 151; p. 917.
Reynolds, Thomas, Baraboo, Wis. Train-pipe coupling. No. 971,147; Sept. 27; Sp. p. 4273; Gaz. vol. 158; p. 752.
Reynolds, Thomas J., Bessemer, Ala. Attachment for milk-bottles. No. 958,312; May 17; Sp. p. 4187; Gaz. vol. 154; p. 683.
Reynolds, Timothy, Selma, Cal. Bicycle-crank. No. 977,900; Dec. 6; Sp. p. 1047; Gaz. vol. 161; p. 166.
Reynolds, William C., Alpena, Mich. Priming attachment for spark-plugs. No. 966,767; Aug. 9; Sp. p. 2034; Gaz. vol. 157; p. 338.
Reynolds, William H. (See Meilink and Reynolds.)
Reynolds, William H., assignor to The Meilink Manufacturing Company, Toledo, Ohio. Locking device for safes, &c. No. 961,088; June 7; Sp. p. 1718; Gaz. vol. 155; p. 285.
Reyntiens, Ramon F., and H. J. Meertens, Oakland, Cal. Acetylene-generator. No. 967,558; Aug. 16; Sp. p. 3675; Gaz. vol. 157; p. 632.
Reznor, Jessie T., Mercer, Pa. Reflector-stove. No. 956,420; Apr. 26; Sp. p. 5914; Gaz. vol. 153; p. 1029.
Rhea, Luther C., Columbus, Ohio. Water-heater. No. 963,177; July 5; Sp. p. 380; Gaz. vol. 156; p. 54.
Rhea, Luther C., Columbus, Ohio. Boiler. No. 971,561; Oct. 4; Sp. p. 110; Gaz. vol. 159; p. 21.
Rhein, Meyer L., New York, N. Y. Powder holding and dispensing container. No. 966,053; Aug. 2; Sp. p. 457; Gaz. vol. 157; p. 73.
Rhein, Meyer L., New York, N. Y., and M. O. Anthony, Englewood, N. J. Powder holding and dispensing container. No. 969,190; Sept. 6; Sp. p. 99; Gaz. vol. 158; p. 16.
Rheinauer, Daniel. (See Rheinauer, Moritz, assignor.)
Rheinauer, Moritz, assignor to D. Rheinauer, New York, N. Y. Pipe. No. 948,550; Feb. 8; Sp. p. 1627; Gaz. vol. 151; p. 284.
Rheinberger, Alfonso R., St. Paul, Minn. Pole-line lightning-arrester. No. 949,130; Feb. 15; Sp. p. 2850; Gaz. vol. 151; p. 504.
Rheinische Metallwaaren- und Maschinenfabrik. (See Schmeisser, Louis, assignor.)
Rheinstrom, Isaac. (See Bodman, Walter L., assignor.)
Rheolite Company. (See Phillips, William A., assignor.)
Rhett, James M., Beaufort, S. C. Automatic switch for reversing gas-engines. No. 950,704; Mar. 1; Sp. p. 523; Gaz. vol. 152; p. 82.
Rhett, James M., assignor of one-third to N. Christensen, Beaufort, S. C. Automatic switch. No. 962,388; June 21; Sp. p. 4498; Gaz. vol. 155; p. 776.
Rhinelander Iron Co. *et al.* (See Dolan, William J., assignor.)
Rhines, George V., assignor to G. S. Mills, Toledo, Ohio. Concrete reinforcement. No. 968,982; Aug. 30; Sp. p. 6693; Gaz. vol. 157; p. 1165.
Rhoades, Alonzo E. (See Osgood and Rhoades.)
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 948,024; Feb. 1; Sp. p. 507; Gaz. vol. 151; p. 82.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Bearing for twister spool-spindles. No. 951,548; Mar. 8; Sp. p. 2212; Gaz. vol. 152; p. 383.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Tension mechanism for warping-machines. No. 951,888; Mar. 15; Sp. p. 2917; Gaz. vol. 152; p. 528.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Loom. No. 952,637; Mar. 22; Sp. p. 4438; Gaz. vol. 152; p. 809.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Loop-banding machine. No. 953,293; Mar. 29; Sp. p. 5838; Gaz. vol. 152; p. 1055.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Spooler. No. 953,294; Mar. 29; Sp. p. 5840; Gaz. vol. 152; p. 1055.

Alphabetical list of patentees—Continued.

Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Traverse motion for yarn-spinning apparatus. No. 954,343; Apr. 5; Sp. p. 1380; Gaz. vol. 153; p. 229.

Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Cylindrical ball of yarn. No. 954,344; Apr. 5; Sp. p. 1386; Gaz. vol. 153; p. 229.

Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Let-off mechanism for looms. No. 954,648; Apr. 12; Sp. p. 2044; Gaz. vol. 153; p. 360.

Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Thin-place-detecting means for looms. No. 956,172; Apr. 26; Sp. p. 5387; Gaz. vol. 153; p. 945.

Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Fly-wheel for warping and balling machines. No. 958,974; May 24; Sp. p. 5569; Gaz. vol. 154; p. 935.

Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Pick-matcher for automatic weft-replenishing looms. No. 964,555; July 19; Sp. p. 3336; Gaz. vol. 156; p. 570.

Rhoades, Alonzo E., Hopedale, Mass., assignor to Draper Company, Portland, Me. Automatic weft-replenishing loom. No. 972,918; Oct. 18; Sp. p. 3108; Gaz. vol. 159; p. 544.

Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Spindle-brake for spinning or twisting apparatus. No. 977,751; Dec. 6; Sp. p. 727; Gaz. vol. 161; p. 114.

Rhoades, Leonard W., assignor to McCallum Hosiery Company, Northampton, Mass. Machine for attaching fabric to metal. No. 956,173; Apr. 26; Sp. p. 5383; Gaz. vol. 153; p. 946.

Rhoades, Lewis T., Mont Clare, Pa. Current-controlling mechanism for internal-combustion engines. No. 955,204; Apr. 19; Sp. p. 3254; Gaz. vol. 153; p. 583.

Rhoades, Lewis T., Mont Clare, Pa. Current-controlling mechanism for internal-combustion engines. No. 966,768; Aug. 9; Sp. p. 2035; Gaz. vol. 157; p. 338.

Rhoads, Edwin A., Goodland, Kans. Siphon feeding mechanism. No. 978,648; Dec. 13; Sp. p. 2681; Gaz. vol. 161; p. 456.

Rhoads, Errett S., Kansas City, Mo. Store-front construction. No. 946,734; Jan. 18; Sp. p. 3846; Gaz. vol. 150; p. 641.

Rhoads, Errett S., Kansas City, Mo. Window-glass-setting gage. No. 978,781; Dec. 13; Sp. p. 2946; Gaz. vol. 161; p. 498.

Rhoads, George A., Uhrichsville, Ohio. Pneumatic spring suspension for vehicles. No. 955,692; Apr. 19; Sp. p. 4327; Gaz. vol. 153; p. 748.

Rhoads, Harry, Novinger, Mo. Window-sash. No. 945,605; Jan. 4; Sp. p. 1278; Gaz. vol. 150; p. 199.

Rhoads, Harry E., Wilkinsburg, Pa. Shaper and planer. No. 946,399; Jan. 11; Sp. p. 3140; Gaz. vol. 150; p. 506.

Rhoads, Quinn. (See Rose and Rhoads, assignors.)

Rhoads, Walter L. (See Rose and Rhoads.)

Rhode, Frank, assignor to Fort Dearborn Manufacturing Company, Chicago, Ill. Savings-bank. No. 945,606; Jan. 4; Sp. p. 1280; Gaz. vol. 150; p. 200.

Rhode Island Perkins Horse Shoe Company. (See Comstock, Richard W., Jr., assignor.)

Rhodes, Albert C., assignor to Draper Company, Hopedale, Mass. Holding means for spinning and twisting rings. No. 945,805; Jan. 11; Sp. p. 1767; Gaz. vol. 150; p. 296.

Rhodes, Arthur P., San Francisco, Cal. Hat-pin guide and hat protector and preserver. No. 969,407; Sept. 6; Sp. p. 544; Gaz. vol. 158; p. 87.

Rhodes Bros. (See Kane, John, assignor.)

Rhodes, Charles M., Steubenville, Ohio. Gearing. No. 950,958; Mar. 1; Sp. p. 1038; Gaz. vol. 152; p. 166.

Rhodes, Elbert C., Chicago, Ill. Window displaying device. No. 950,346; Feb. 22; Sp. p. 5433; Gaz. vol. 151; p. 952.

Rhodes, George A., New York, N. Y. Universal leveling device. No. 962,467; June 28; Sp. p. 4708; Gaz. vol. 155; p. 829.

Rhodes, George D., Groton, N. Y., assignor to F. J. Lewis, Chicago, Ill. Road-scraper. No. 979,338; Dec. 20; Sp. p. 4158; Gaz. vol. 161; p. 717.

Rhodes, Harry A., assignor to The Universal Motor Company, Denver, Colo. Differential-speed motor. No. 971,148; Sept. 27; Sp. p. 4274; Gaz. vol. 158; p. 753.

Rhodes, Jay B., Kalamazoo, Mich. Route-indicator. No. 951,966; Mar. 15; Sp. p. 3064; Gaz. vol. 152; p. 553.

Rhodes, Jay B., assignor to Austin Manufacturing Company, Chicago, Ill. Gyratory crusher. No. 945,806; Jan. 11; Sp. p. 1769; Gaz. vol. 150; p. 297.

Rhodes, L. D. (See Carlson, Frank A., assignor.)

Rhodes, Waddill L., Lonie, Tex. Pump-pipe insertor and remover. No. 976,600; Nov. 22; Sp. p. 5568; Gaz. vol. 160; p. 941.

Rhodes, William C., Cleveland, Ohio. Record-plate for graphophones and like machines. No. 946,563; Jan. 18; Sp. p. 3484; Gaz. vol. 150; p. 586.

Rhyne, Jesse W., Spear, N. C. Drill-chuck. No. 949,439; Feb. 15; Sp. p. 3493; Gaz. vol. 151; p. 610.

Rial, John, Brenham, Tex. Molding device. No. 971,407; Sept. 27; Sp. p. 4787; Gaz. vol. 158; p. 838.

Riback, Elias, Chicago, Ill. Milk-safe. No. 968,264; Aug. 23; Sp. p. 5183; Gaz. vol. 157; p. 893.

Riback, Elias, assignor of thirty-five one-hundredths to M. Siegel, Chicago, Ill. Window-screen. No. 963,393; July 5; Sp. p. 866; Gaz. vol. 156; p. 128.

Ribbeck, Emile F., New Iberia, La. Crate. No. 960,401; June 7; Sp. p. 335; Gaz. vol. 155; p. 56.

Ribé, José M., Barcelona, Spain. Wafer-machine. No. 973,304; Oct. 18; Sp. p. 3952; Gaz. vol. 159; p. 676.

Ribereau y Marteaux, Luis, Habana, Cuba. Interlocking cellular building-block. No. 958,413; May 17; Sp. p. 4392; Gaz. vol. 154; p. 717.

Riblet, Byron C., New York, N. Y. Grip for tramway bucket conveyers. No. 953,763; Apr. 5; Sp. p. 161; Gaz. vol. 153; p. 30.

Riblet, Byron C., New York, N. Y. Steering and cranking mechanism for motor-driven vehicles. No. 965,014; July 19; Sp. p. 4370; Gaz. vol. 156; p. 728.

Ricaldoni, Ottavio. (See Crocco and Ricaldoni.)

Ricart, Francisco. (See Bucceri, Ignazio, assignor.)

Rice, Charles B., Washington, D. C. Plane. No. 972,645; Oct. 11; Sp. p. 2481; Gaz. vol. 159; p. 422.

Rice, Charles D., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Supporting-frame for type-writing machines. No. 948,826; Feb. 8; Sp. p. 2225; Gaz. vol. 151; p. 377.

Rice, Charles D., and L. D. Broughton, Hartford, Conn., assignors to Underwood Automatic Typewriter Pay Station Company, New York, N. Y. Time-controlling mechanism for type-writing machines, &c. No. 977,130; Nov. 29; Sp. p. 6749; Gaz. vol. 160; p. 1149.

Rice, Charles M., St. Louis, Mo. Fluid-heating device. No. 976,915; Nov. 29; Sp. p. 6236; Gaz. vol. 160; p. 1073.

Rice, Clarence L. (See Morgan and Rice.)

Rice, David. (See Sahlin, Henning G., assignor.)

Rice, Edward E., New Durham, N. H., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Wire brush. No. 969,191; Sept. 6; Sp. p. 103; Gaz. vol. 158; p. 17.

Rice, Edward W., San Francisco, Cal. Laundry-tagging machine. No. 970,952; Sept. 20; Sp. p. 3863; Gaz. vol. 158; p. 660.

Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company. Electric soldering-iron. No. 957,256; May 10; Sp. p. 1636; Gaz. vol. 154; p. 289.

Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company. Incandescent electric lamp. No. 964,692; July 19; Sp. p. 3731; Gaz. vol. 156; p. 619.

Rice, Frank W. (See Dennis and Rice.)

Rice Gas Engine Company. (See Rice, John V., Jr., assignor.)

Rice, George B., Ocean Springs, Miss. Means for operating elevator safety devices. No. 961,260; June 14; Sp. p. 2065; Gaz. vol. 155; p. 372.

Rice, George L. (See Hall, George E., assignor.)

Rice, George L., and B. W. Gilchrist, Woodhaven, N. Y.; said Gilchrist assignor to said Rice. Enameling metals. No. 971,641; Oct. 4; Sp. p. 277; Gaz. vol. 159; p. 49.

Rice, George S., Evanston, Ill. Fan. No. 978,397; Dec. 13; Sp. p. 2124; Gaz. vol. 161; p. 369.

Rice, Herbert S., North Brookfield, assignor to E. R. Atwood, Chelsea, Mass. Railway-tie. No. 954,345; Apr. 5; Sp. p. 1387; Gaz. vol. 153; p. 230.

Rice, Horace E. (See Goldstein and Rice.)

Rice, Irwin H., Los Angeles, Cal. Manifolding-book. No. 952,638; Mar. 22; Sp. p. 4443; Gaz. vol. 152; p. 809.

Rice, James W., Wellsville, Ohio. Recording-target. No. 954,997; Apr. 12; Sp. p. 2835; Gaz. vol. 153; p. 481.

Rice, John C., Sedro Woolley, Wash. Churn. No. 950,056; Feb. 22; Sp. p. 4852; Gaz. vol. 151; p. 854.

Rice, John V., Jr., assignor to Rice Gas Engine Company, Bordentown, N. J. Gas-engine. No. 958,975; May 24; Sp. p. 5571; Gaz. vol. 154; p. 936.

Rice, John V., Jr., assignor to Rice Gas Engine Company, Bordentown, N. J. Starting and reversing mechanism for gas-engines. No. 967,559; Aug. 16; Sp. p. 3676; Gaz. vol. 157; p. 632.

Rice, Joseph T., New York, N. Y. Centering apparatus. No. 959,167; May 24; Sp. p. 5976; Gaz. vol. 154; p. 999.

Rice, Lawrence, Cassel, Ontario, Canada. Attachment for spring-boards. No. 952,139; Mar. 15; Sp. p. 3395; Gaz. vol. 152; p. 611.

Rice, Mathew C., and M. J. Pendergast, Kansas City, Mo. Sewer-manhole cover. No. 953,858; Apr. 5; Sp. p. 354; Gaz. vol. 153; p. 63.

Rice, Merrill B., Los Angeles, Cal. Manifold for internal-combustion engines. No. 974,992; Nov. 8; Sp. p. 2090; Gaz. vol. 160; p. 340.

Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Governing mechanism for elastic-fluid turbines. No. 951,337; Mar. 8; Sp. p. 1773; Gaz. vol. 152; p. 312.

Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Governing mechanism for turbines. No. 957,902; May 17; Sp. p. 2974; Gaz. vol. 154; p. 538.

Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Portable fire-engine. No. 957,903; May 17; Sp. p. 2978; Gaz. vol. 154; p. 538.

Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 963,178; July 5; Sp. p. 381; Gaz. vol. 156; p. 54.

Alphabetical list of patentees—Continued.

Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Governing mechanism for turbines. No. 969,726; Sept. 6; Sp. p. 1213; Gaz. vol. 158; p. 196.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Step-bearing. No. 974,186; Nov. 1; Sp. p. 175; Gaz. vol. 160; p. 31.
Rice, Richard H., Swampscott, Mass., assignor to General Electric Company. Step-bearing for upright shafts. No. 953,231; Mar. 29; Sp. p. 5701; Gaz. vol. 152; p. 1035.
Rice, Robert W., Cleveland, Ohio. Ozone-generator. No. 950,347; Feb. 22; Sp. p. 5434; Gaz. vol. 151; p. 952.
Rice, Waldo G., Edison Park, Ill. Photographic tray. No. 947,942; Feb. 1; Sp. p. 347; Gaz. vol. 151; p. 56.
Rice, Walter H., Warwick, assignor of one-half to P. Wunderle, Cranston, R. I. Pin. No. 969,807; Sept. 13; Sp. p. 1435; Gaz. vol. 158; p. 249.
Rice, William H., Rochester, N. Y. Tool-controlling mechanism for agricultural implements. No. 945,192; Jan. 4; Sp. p. 378; Gaz. vol. 150; p. 64.
Rice, William H., Rochester, N. Y. Separator. No. 946,518; Jan. 11; Sp. p. 3408; Gaz. vol. 150; p. 546.
Rich, Charles C., assignor of one-half to H. J. Douglas, Mount Vernon, N. Y. Electric contact-shoe. No. 977,401; Nov. 29; Sp. p. 7344; Gaz. vol. 160; p. 1242.
Rich, Edgar C. (See Nainteau and Rich.)
Rich, Edgar L. (See Rich, Henry L. and E. L.)
Rich, Edwin J., assignor of one-half to E. R. McCall, Rochester, N. Y. Musical toy. No. 976,695; Nov. 22; Sp. p. 5742; Gaz. vol. 160; p. 972.
Rich, Evelyn J., assignor to Summit Thread Company, East Hampton, Conn. Thread-measuring machine. No. 947,580; Jan. 25; Sp. p. 5751; Gaz. vol. 150; p. 955.
Rich, Frank E. (See McEachern, Daniel, assignor.)
Rich, Henry L. and E. L., North Yakima, Wash. Adjustable shade-roller support. No. 947,084; Jan. 18; Sp. p. 4607; Gaz. vol. 150; p. 761.
Rich, Jerome, Jackson, Mich. Suspenders. No. 967,057; Aug. 9; Sp. p. 2640; Gaz. vol. 157; p. 434.
Rich, Walter W., Putnam, Conn., assignor to Putnam Foundry and Machine Company, Providence, R. I. Water-heating apparatus. No. 947,308; Jan. 25; Sp. p. 5117; Gaz. vol. 150; p. 864.
Rich, Willard G. (See Nicholas and Rich.)
Rich, William H., New Rockford, N. D. Washboiler attachment. No. 949,687; Feb. 15; Sp. p. 3957; Gaz. vol. 151; p. 689.
Richard, Eugene C., Lansing, Mich. Internal-combustion engine. No. 954,208; Apr. 5; Sp. p. 1104; Gaz. vol. 153; p. 183.
Richard, Henry J., Danbury, Conn. Plug-cock. No. 948,075; Feb. 1; Sp. p. 620; Gaz. vol. 151; p. 100.
Richards, Albert W., Sheridan, Wyo. Hay-rake. No. 974,827; Nov. 8; Sp. p. 1688; Gaz. vol. 160; p. 283.
Richards, Arthur W., Yonkers, N. Y., assignor to Albenart Company, Canton, Mass. Vise. No. 954,699; Apr. 12; Sp. p. 2147; Gaz. vol. 153; p. 376.
Richards, Charles B., assignor, by mesne assignments, to The Cleveland Rock Drill Company, Cleveland, Ohio. Drilling-machine. No. 966,600; Aug. 9; Sp. p. 1650; Gaz. vol. 157; p. 281.
Richards, Charles B., assignor, by mesne assignments, to The Cleveland Rock Drill Company, Cleveland, Ohio. Fluid-operated rock-drill. No. 967,239; Aug. 16; Sp. p. 3024; Gaz. vol. 157; p. 523.
Richards, Charles E. (See Richards, James E. W. and C. E.)
Richards, Claude G., near Bolckow, Mo. Staple-holder. No. 965,746; July 26; Sp. p. 5929; Gaz. vol. 156; p. 1009.
Richards, Daniel B., and C. F. Loga, Beaufort, N. C. Pontoon-pipe for marine dredging. No. 975,999; Nov. 15; Sp. p. 4194; Gaz. vol. 160; p. 711.
Richards, Francis H., Hartford, Conn. Manufacturing type-bars. No. 947,760; Jan. 25; Sp. p. 6082; Gaz. vol. 150; p. 1015.
Richards, Francis H., Hartford, Conn. Mechanism for producing type-bars. No. 947,761; Jan. 25; Sp. p. 6087; Gaz. vol. 150; p. 1015.
Richards, Francis H., Hartford, Conn. Fastening device. No. 954,763; Apr. 12; Sp. p. 2323; Gaz. vol. 153; p. 401.
Richards, Francis H., Hartford, Conn. Coiling and feed mechanism. No. 957,905; May 17; Sp. p. 2992; Gaz. vol. 154; p. 539.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Machine for making type-bars. No. 946,866; Jan. 18; Sp. p. 4168; Gaz. vol. 150; p. 688.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Manufacture of type-bars. No. 946,867; Jan. 18; Sp. p. 4179; Gaz. vol. 150; p. 689.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Machine for forming type-bars. No. 947,005; Jan. 18; Sp. p. 4461; Gaz. vol. 150; p. 735.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Machine for making type-bars. No. 947,006; Jan. 18; Sp. p. 4471; Gaz. vol. 150; p. 735.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Producing type-bars. No. 947,350; Jan. 25; Sp. p. 5220; Gaz. vol. 150; p. 880.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Mechanical movement. No. 947,473; Jan. 25; Sp. p. 5494; Gaz. vol. 150; p. 918.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Mechanical movement. No. 947,474; Jan. 25; Sp. p. 5504; Gaz. vol. 150; p. 919.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar and typographic form. No. 952,579; Mar. 22; Sp. p. 4300; Gaz. vol. 152; p. 787.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar and typographic form. No. 952,639; Mar. 22; Sp. p. 4440; Gaz. vol. 152; p. 810.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Machine for making types and type-bars. No. 957,904; May 17; Sp. p. 2979; Gaz. vol. 154; p. 538.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, of one-half to American Typographic Corporation. Rolling mechanism. No. 958,010; May 17; Sp. p. 3307; Gaz. vol. 154; p. 576.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar. No. 958,435; May 17; Sp. p. 4443; Gaz. vol. 154; p. 726.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making type and type-bars. No. 958,436; May 17; Sp. p. 4444; Gaz. vol. 154; p. 726.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar and typographic form. No. 962,857; June 28; Sp. p. 5514; Gaz. vol. 155; p. 965.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Logotype, type-bar, and typographic form. No. 971,074; Sept. 27; Sp. p. 4133; Gaz. vol. 158; p. 729.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, of one-half to American Typographic Corporation. Mechanical movement. No. 976,916; Nov. 29; Sp. p. 6236; Gaz. vol. 160; p. 1073.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, of one-half to American Typographic Corporation. Force-pump. No. 976,917; Nov. 29; Sp. p. 6241; Gaz. vol. 160; p. 1074.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, of one-half to American Typographic Corporation. Mechanical movement. No. 976,918; Nov. 29; Sp. p. 6246; Gaz. vol. 160; p. 1074.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Typographic form. No. 976,919; Nov. 29; Sp. p. 6254; Gaz. vol. 160; p. 1075.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Mechanism for making type and type-bars. No. 976,920; Nov. 29; Sp. p. 6256; Gaz. vol. 160; p. 1075.
Richards, Francis H., Hartford, Conn., assignor to E. D. Speer, New York, N. Y. Coiling mechanism. No. 958,767; May 24; Sp. p. 5099; Gaz. vol. 154; p. 862.
Richards, George M., Erie, Pa. Pressure-governor. No. 962,100; June 21; Sp. p. 3883; Gaz. vol. 155; p. 679.
Richards, Harry M. (See Holmes, Hamden H., assignor.)
Richards, Hubert P., assignor to The Stanley Rule & Level Company, New Britain, Conn. Bit-brace chuck. No. 960,402; June 7; Sp. p. 336; Gaz. vol. 155; p. 56.
Richards, James E., assignor to Dayton Clothing Mfg. Co., Dayton, Ohio. Combination apron and overalls. No. 945,345; Jan. 4; Sp. p. 746; Gaz. vol. 150; p. 114.
Richards, James E. W. and C. E., Arapahoe, Nebr. Funnel. No. 951,843; Mar. 15; Sp. p. 2812; Gaz. vol. 152; p. 513.
Richards, James P., Netawaka, Kans. Brooder-coop for chickens, &c. No. 946,706; Jan. 18; Sp. p. 3777; Gaz. vol. 150; p. 632.
Richards, John O., assignor to Richards Tag Company, Omaha, Nebr. Removable index-tag. No. 968,802; Aug. 30; Sp. p. 6339; Gaz. vol. 157; p. 1105.
Richards, John S., Monteer, Mo. Picking-machine. No. 946,273; Jan. 11; Sp. p. 2780; Gaz. vol. 150; p. 462.
Richards, John T. (See Sower and Richards.)
Richards Manufacturing Company, The. (See Paquette, Herman A., assignor.)
Richards, Michael L., New Haven, Conn. Steam-trap. No. 977,131; Nov. 29; Sp. p. 6755; Gaz. vol. 160; p. 1149.
Richards, Orlando, Bristol, Wis. Sliding door. No. 969,192; Sept. 6; Sp. p. 105; Gaz. vol. 158; p. 17.
Richards, Richard S., Wraysbury, and R. W. Pringle, Richmond, England. Apparatus for the distillation of coal and the recovery of the products. No. 974,919; Nov. 8; Sp. p. 1905; Gaz. vol. 160; p. 315.
Richards, Royal F., Los Angeles, Cal. Pocket-atomizer. No. 963,179; July 5; Sp. p. 385; Gaz. vol. 156; p. 55.

Alphabetical list of patentees—Continued.

Richards Tag Company. (See Richards, John O., assignor.)
Richards, Walter J., assignor to National Brake & Electric Company, Milwaukee, Wis. Valve-oiling device. No. 952,580; Mar. 22; Sp. p. 4302; Gaz. vol. 152; p. 788.
Richards, Walter J., assignor to National Brake & Electric Company, Milwaukee, Wis. Governor. No. 969,193; Sept. 6; Sp. p. 107; Gaz. vol. 158; p. 17.
Richards, Warren. (See Fahlstrom and Richards.)
Richards, Willard F., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Split gear-wheel. No. 946,735; Jan. 18; Sp. p. 3848; Gaz. vol. 150; p. 642.
Richards, Willard F., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Railway-car truck. No. 965,600; July 26; Sp. p. 5634; Gaz. vol. 156; p. 959.
Richards, Willard F., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Car-truck frame. No. 966,123; Aug. 2; Sp. p. 587; Gaz. vol. 157; p. 96.
Richards, Willard F., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Car-coupling. No. 970,113; Sept. 13; Sp. p. 2081; Gaz. vol. 158; p. 354.
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling. No. 964,883; July 19; Sp. p. 4117; Gaz. vol. 156; p. 685.
Richards, William E., Portage, Pa. Circuit-breaker. No. 966,360; Aug. 2; Sp. p. 1069; Gaz. vol. 157; p. 172.
Richardson, Ammon P. (See Taylor, Charles G., assignor.)
Richardson, Artemas P. (See Wootten and Richardson.)
Richardson, Charles H., and F. F. Metzger, Philadelphia, Pa. Folding bracket. No. 975,069; Nov. 8; Sp. p. 2245; Gaz. vol. 160; p. 366.
Richardson, Charles H., and F. F. Metzger, Philadelphia, Pa. Folding bracket. No. 975,070; Nov. 8; Sp. p. 2247; Gaz. vol. 160; p. 366.
Richardson, Daniel W., South Frankfort, Mich. Fruit-picking glove. No. 969,119; Aug. 30; Sp. p. 6972; Gaz. vol. 157; p. 1213.
Richardson, Earl H., assignor to Pacific Electric Heating Company, Ontario, Cal. Electric laundry-iron. No. 946,070; Jan. 11; Sp. p. 2342; Gaz. vol. 150; p. 390.
Richardson, Earl H., assignor to Pacific Electric Heating Company, Ontario, Cal. Electric laundry-iron. No. 956,174; Apr. 26; Sp. p. 5391; Gaz. vol. 153; p. 946.
Richardson, Edward M., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Truck side frame. No. 958,541; May 17; Sp. p. 4639; Gaz. vol. 154; p. 762.
Richardson, Edwin A., Worcester, Mass. Educational implement. No. 966,473; Aug. 9; Sp. p. 1337; Gaz. vol. 157; p. 237.
Richardson, Ernest, Beaver Falls, Pa. Eyeleted enameled sign. No. 974,297; Nov. 1; Sp. p. 494; Gaz. vol. 160; p. 72.
Richardson, Ernest, assignor of one-half to L. Ingram, Beaver Falls, Pa. Barber-pole. No. 950,806; Mar. 1; Sp. p. 746; Gaz. vol. 152; p. 119.
Richardson, Frank C., Iola, Kans. Liquid-fuel burner. No. 947,943; Feb. 1; Sp. p. 349; Gaz. vol. 151; p. 56.
Richardson, Frank C. A., New York, N. Y. Cream-separator. No. 950,117; Feb. 22; Sp. p. 4968; Gaz. vol. 151; p. 874.
Richardson, Frank E., Cazenovia, N. Y. Reference-file. No. 967,438; Aug. 16; Sp. p. 3426; Gaz. vol. 157; p. 591.
Richardson, Fred, Webb City, Mo. Gravity-jig attachment. No. 959,607; May 31; Sp. p. 6881; Gaz. vol. 154; p. 1171.
Richardson, Frederick, assignor to United Lace & Braid Mfg. Co., Providence, R. I. Reciprocating die. No. 963,394; July 5; Sp. p. 868; Gaz. vol. 156; p. 128.
Richardson, George C. (See Gardner, Benjamin F., assignor.)
Richardson, George W., Philadelphia, assignor of one-half to S. T. Major, Pencoyd, Pa. Electrical drying apparatus. No. 963,942; July 12; Sp. p. 2023; Gaz. vol. 156; p. 333.
Richardson, Harold A., Steelton, Pa. Game-board. No. 957,800; May 10; Sp. p. 2759; Gaz. vol. 154; p. 473.
Richardson, Harvey J., Chicago, Ill. Relay air-valve. No. 959,073; May 24; Sp. p. 5781; Gaz. vol. 154; p. 968.
Richardson, Harvey J., Gilmour, assignor of one-half to P. N. Staff, Terre Haute, Ind. Table implement. No. 972,777; Oct. 11; Sp. p. 2742; Gaz. vol. 159; p. 466.
Richardson, Henry, New York, N. Y. Electrical controlling mechanism for weighing-machines. No. 955,693; Apr. 19; Sp. p. 4329; Gaz. vol. 153; p. 749.
Richardson, Henry, New York, N. Y. Automatic weighing-machine. No. 960,108; May 31; Sp. p. 7987; Gaz. vol. 154; p. 1342.
Richardson, Henry, New York, N. Y. Weighing, bagging, and packing apparatus. No. 962,918; June 28; Sp. p. 5627; Gaz. vol. 155; p. 985.
Richardson, Henry, New York, N. Y. Weighing-machine. No. 962,919; June 28; Sp. p. 5631; Gaz. vol. 155; p. 986.
Richardson, Henry, New York, N. Y. Weighing-machine. No. 975,158; Nov. 8; Sp. p. 2442; Gaz. vol. 160; p. 397.
Richardson, James J., Savanne, Ontario, Canada. Window-sash. No. 975,719; Nov. 15; Sp. p. 3644; Gaz. vol. 160; p. 614.
Richardson, John A., Wausau, Wis. Exhaust-controlling device for locomotives. No. 954,998; Apr. 12; Sp. p. 2837; Gaz. vol. 153; p. 482.
Richardson, John E., Grandview, W. Va. Window. No. 970,114; Sept. 13; Sp. p. 2083; Gaz. vol. 158; p. 354.
Richardson, John W., Greensboro, N. C. Spring-frame for beds. No. 951,427; Mar. 8; Sp. p. 1967; Gaz. vol. 152; p. 342.
Richardson, Joseph, and J. F. Neef, Philadelphia, Pa. Dyeing-machine. No. 957,801; May 10; Sp. p. 2761; Gaz. vol. 154; p. 473.
Richardson Manufacturing Company. (See Brown, Theophilus, assignor.)
Richardson Manufacturing Company. (See Curtis, Edwin P., assignor.)
Richardson, Mary A., administratrix. (See Richardson, Millard F.)
Richardson, Millard F., deceased, Kalamazoo, Mich.; M. A. Richardson, administratrix. Pipe-coupling. No. 955,828; Apr. 19; Sp. p. 4602; Gaz. vol. 153; p. 795.
Richardson, Nancy M., Los Angeles, Cal. Combined dish washer and holder. No. 973,212; Oct. 18; Sp. p. 3777; Gaz. vol. 159; p. 645.
Richardson, Oliver O., Brookville, Kans. Screen-bed. No. 959,168; May 24; Sp. p. 5982; Gaz. vol. 154; p. 1000.
Richardson, Roy H., Kansas City, Mo. Water-elevating apparatus. No. 964,693; July 19; Sp. p. 3732; Gaz. vol. 156; p. 620.
Richardson, Samuel, Hoover, Ind. Road-scraper. No. 966,242; Aug. 2; Sp. p. 854; Gaz. vol. 157; p. 136.
Richardson, Samuel L. (See Koerkle, Frank D., assignor.)
Richardson Scale Company. (See Murray, Stanley G., assignor.)
Richardson, T. S. (See Minyard, Sam J., assignor.)
Richardson, Theodore S., Chicago, Ill. Window-seat. No. 962,468; June 28; Sp. p. 4709; Gaz. vol. 155; p. 830.
Richardson, Thomas D. (See De Long, Frank E., assignor.)
Richardson, Wilber E., Wilkinsburg, and A. West, Pittsburg, Pa., assignors to The Westinghouse Machine Company. Elastic-fluid turbine. No. 949,440; Feb. 15; Sp. p. 3494; Gaz. vol. 151; p. 610.
Richardson, William K., Leavenworth, Kans. Centrifugal pump. No. 958,768; May 24; Sp. p. 5104; Gaz. vol. 154; p. 862.
Richardson, William K., Leavenworth, Kans. Purifying or clarifying water. No. 958,769; May 24; Sp. p. 5105; Gaz. vol. 154; p. 863.
Richardson, William K., Leavenworth, Kans. Centrifugal water-purifier. No. 958,770; May 24; Sp. p. 5107; Gaz. vol. 154; p. 863.
Richberger, George, assignor of one-half to H. E. Winterton, Memphis, Tenn. Shipping-tag. No. 969,658; Sept. 6; Sp. p. 1079; Gaz. vol. 158; p. 173.
Richburge, Peter, *et al.* (See Wynder, George, assignor.)
Richert, Johan G., Stockholm, Sweden. Filter-basin. No. 964,694; July 19; Sp. p. 3735; Gaz. vol. 156; p. 620.
Richey, Albert C., assignor of one-third to J. W. Kennedy and one-third to J. La Motte, Pueblo, Colo. Railway-rail joint. No. 961,461; June 14; Sp. p. 2507; Gaz. vol. 155; p. 441.
Richey, Browne and Donald. (See Hofmann, Walter H., assignor.)
Richey, Charles A. (See Haddon, Leonard F., assignor.)
Richey, Oscar T., Tucson, Ariz. Flushing apparatus. No. 973,973; Oct. 25; Sp. p. 5352; Gaz. vol. 159; p. 931.
Richey, William D., Ocala, Fla. Knee-drawers. No. 948,771; Feb. 8; Sp. p. 2115; Gaz. vol. 151; p. 359.
Richmond, Henry E., Westwood, N. J. Lens-mount. No. 959,169; May 24; Sp. p. 5983; Gaz. vol. 154; p. 1000.
Richmond, Henry E., Westwood, N. J. Lens-mount. No. 959,387; May 24; Sp. p. 6407; Gaz. vol. 154; p. 1071.
Richmond, Walter, Memphis, Tenn. Circuit-controlled switch. No. 949,844; Feb. 22; Sp. p. 4317; Gaz. vol. 151; p. 778.
Richmond, Walter, Memphis, Tenn. Electric heating-receptacle. No. 972,248; Oct. 11; Sp. p. 1614; Gaz. vol. 159; p. 283.
Richolson, Abraham L., New York, N. Y. Guide for sewing-machines. No. 971,562; Oct. 4; Sp. p. 113; Gaz. vol. 159; p. 22.
Richter, Alexandra, Leipzig, Germany. Sterilizing apparatus. No. 949,661; Feb. 15; Sp. p. 3912; Gaz. vol. 151; p. 682.
Richter, Alfred V., administrator. (See Valentiner, Frederick W. S.)
Richter, Edward A., Pittsburg, Pa. Propeller. No. 960,403; June 7; Sp. p. 338; Gaz. vol. 155; p. 56.
Richter, Emil, Mehlthener, Germany. Potato-planter. No. 972,919; Oct. 18; Sp. p. 3110; Gaz. vol. 159; p. 544.
Richter, Harry J., Chicago, Ill. Automatic spray-valve. No. 945,867; Jan. 11; Sp. p. 1925; Gaz. vol. 150; p. 320.
Richter, Herman F., assignor of one-tenth to J. R. Ketcham, Seattle, Wash. Terminal clamp. No. 948,596; Feb. 8; Sp. p. 1726; Gaz. vol. 151; p. 299.
Richter, Louis, Crimmitschau, Germany. Machine for preparing hides and skins of every description. No. 977,132; Nov. 29; Sp. p. 6756; Gaz. vol. 160; p. 1150.
Richter, Rudolf, Grünau, near Berlin, Germany. Electrical equalizing system. No. 977,328; Nov. 29; Sp. p. 7147; Gaz. vol. 160; p. 1216.

Alphabetical list of patentees—Continued.

Richter, Rudolf, Charlottenburg, assignor to Siemens-Schuckertwerke G. m. b. H., Berlin, Germany. Alternate-current commutator-motor. No. 962,101; June 21; Sp. p. 3887; Gaz. vol. 155; p. 680.
Rickard, Simeon H., Pittsburg, Pa. Power-transmitting mechanism. No. 970,753; Sept. 20; Sp. p. 3465; Gaz. vol. 158; p. 593.
Rickards, Joshua B., and W. H. Geiger, Philadelphia, Pa. Gasolene-strainer. No. 973,305; Oct. 18; Sp. p. 3954; Gaz. vol. 159; p. 676.
Rickel, James, Verndale, Minn. Corn-harvester. No. 976,921; Nov. 29; Sp. p. 6262; Gaz. vol. 160; p. 1075.
Ricker, Adolph J., South Milwaukee, Wis., assignor to B. D. Jones, Chicago, Ill. Car-door. No. 973,701; Oct. 25; Sp. p. 4809; Gaz. vol. 159; p. 836.
Ricker, Frank L., Portland, Me. Window-screen. No. 969,079; Aug. 30; Sp. p. 6890; Gaz. vol. 157; p. 1199.
Ricker, Reuben C., Canal Dover, Ohio. Mold. No. 959,806; May 31; Sp. p. 7307; Gaz. vol. 154; p. 1237.
Ricker, Van Clief, Dayton, Ohio, assignor to National Biscuit Company, New York, N. Y. Multiple-compartment display-can. No. 947,561; Jan. 25; Sp. p. 5710; Gaz. vol. 150; p. 948.
Rickerd, Fred S., assignor to Detroit Wire Spring Company, Detroit, Mich. Spring-seat. No. 976,396; Nov. 22; Sp. p. 5136; Gaz. vol. 160; p. 871.
Rickerson, Clinton J. G., Colorado Springs, Colo. Automatic switch-throwing device. No. 959,884; May 31; Sp. p. 7480; Gaz. vol. 154; p. 1264.
Rickerson, Eugene F., Butler, Ga. Automatic wagon-brake. No. 965,747; July 26; Sp. p. 5930; Gaz. vol. 156; p. 1009.
Rickert, August A., Erie, Pa. Can-sealing device. No. 973,812; Oct. 25; Sp. p. 5031; Gaz. vol. 159; p. 874.
Ricketts, Claude B., St. Louis, Mo. Illuminated threshold. No. 958,542; May 17; Sp. p. 4640; Gaz. vol. 154; p. 763.
Ricketts, James R., Longbeach, assignor to Los Angeles Trolley Catcher Company, Los Angeles, Cal. Trolley-catcher. No. 974,920; Nov. 8; Sp. p. 1908; Gaz. vol. 160; p. 315.
Ricketts, John A., Ithaca, N. Y. Breech-loading gun. No. 975,071; Nov. 8; Sp. p. 2249; Gaz. vol. 160; p. 367.
Rickman, Robert L., Vancouver, British Columbia, Canada. Meter. No. 964,695; July 19; Sp. p. 3736; Gaz. vol. 156; p. 621.
Rickman, Robert L., assignor of one-half to S. K. Champion, Vancouver, British Columbia, Canada. Meter. (Reissue.) No. 13,184; Dec. 20; Sp. p. 4284; Gaz. vol. 161; p. 736.
Ricks, Joseph L. (See Carroll and Ricks.)
Riday, Robert E., Darby, Pa. Animal-trap. No. 973,213; Oct. 18; Sp. p. 3778; Gaz. vol. 159; p. 646.
Ridd, Ambrose, Newport, Ky. Treating metal sheets. No. 961,462; June 14; Sp. p. 2508; Gaz. vol. 155; p. 441.
Riddell, John, Schenectady, N. Y., assignor to General Electric Company. Milling attachment for bucket-cutting machines. No. 970,554; Sept. 20; Sp. p. 3010; Gaz. vol. 158; p. 524.
Riddell, John, Schenectady, N. Y., assignor to General Electric Company. Slotting and shaping machine. No. 974,187; Nov. 1; Sp. p. 178; Gaz. vol. 160; p. 31.
Riddell, William A., Erie, Pa. Mold. No. 958,892; May 24; Sp. p. 5414; Gaz. vol. 154; p. 908.
Riddiford, Edward J., *et al.* (See Castle, Frank, assignor.)
Riddle, George W., St. Joseph, Mo. Ratchet for grinding-machines and foot-power apparatus. No. 973,974; Oct. 25; Sp. p. 5354; Gaz. vol. 159; p. 932.
Riddle, Harry S. (See Day and Riddle.)
Riddle, Robert H, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 969,300; Sept. 6; Sp. p. 312; Gaz. vol. 158; p. 51.
Riddle, William N., Crowley, Tex. Pump-barrel attachment. No. 970,352; Sept. 13; Sp. p. 2572; Gaz. vol. 158; p. 434.
Ridell, W. E., *et al.* (See Curran, John H., assignor.)
Ridenour, William E., assignor to Franklin Chemical Works, Philadelphia, Pa. Manufacture of trisodium phosphate with hydrated sodium carbonate. No. 950,159; Feb. 22; Sp. p. 5060; Gaz. vol. 151; p. 888.
Ridenour, William E., assignor to Franklin Chemical Works, Philadelphia, Pa. Composition of hydrated sodium carbonate and sodium tannate. No. 958,893; May 24; Sp. p. 5415; Gaz. vol. 154; p. 908.
Rider, Charles B., Ocean City, assignor of one-half to S. H. Hann, Camden, N. J. Disinfecting apparatus. No. 974,298; Nov. 1; Sp. p. 495; Gaz. vol. 160; p. 73.
Rider, Herbert E., New York, N. Y., assignor, by mesne assignments, to Philadelphia Lamp Manufacturing Company. Mantle-burner for kerosene-lamps. No. 955,829; Apr. 19; Sp. p. 4603; Gaz. vol. 153; p. 795.
Ridge, Patrick J. (See Quinn, Felix, assignor.)
Ridgley, Alexander, Gobleville, Mich. Supporting and releasing mechanism for safes. No. 945,248; Jan. 4; Sp. p. 506; Gaz. vol. 150; p. 83.
Ridgely, Frank R. (See Flounders and Ridgely.)
Ridgely and Johnson Tool Company, The. (See Johnson, Charles H., assignor.)
Ridgely Trimmer Company, The. (See Brening, Louis F., assignor.)
Ridgway Construction Company. (See Ridgway, Herbert N., assignor.)
Ridgway Dynamo & Engine Company. (See Hall, Thomas, assignor.)
Ridgway, George, Kalgoorlie, Western Australia, Australia. Filtering-machine. No. 945,193; Jan. 4; Sp. p. 381; Gaz. vol. 150; p. 64.
Ridgway, Herbert N., Boston, Mass. Amusement apparatus. No. 968,803; Aug. 30; Sp. p. 6340; Gaz. vol. 157; p. 1105.
Ridgway, Herbert N., Winthrop, assignor to Ridgway Construction Company, Boston, Mass. Pit for amusement purposes. No. 945,604; Jan. 4; Sp. p. 1276; Gaz. vol. 150; p. 199.
Ridgway, John T., Hillsboro, Ohio. Silo. No. 958,178; May 17; Sp. p. 3769; Gaz. vol. 154; p. 637.
Ridley, Charles, London, England. Apparatus for making oxygen. No. 945,048; Jan. 4; Sp. p. 84; Gaz. vol. 150; p. 15.
Riebe, August, Berlin, Germany, assignor to The Hess-Bright Manufacturing Company. Ball-bearing. No. 955,286; Apr. 19; Sp. p. 3428; Gaz. vol. 153; p. 610.
Riebe, Gustav W., Iron River, Wis. Auxiliary seat for chairs. No. 972,472; Oct. 11; Sp. p. 2073; Gaz. vol. 159; p. 361.
Riebe, Louis, Summithill, Pa. Siphon. No. 977,968; Dec. 6; Sp. p. 1191; Gaz. vol. 161; p. 190.
Riebel, Edward, Chicago, Ill. Boot-black stand and foot-rest. No. 946,564; Jan. 18; Sp. p. 3485; Gaz. vol. 150; p. 586.
Rieche, Friedrich. (See Weise and Rieche.)
Rieck, Charles K., St. Paul, Minn. Monotype-machine. No. 955,839; Apr. 19; Sp. p. 4638; Gaz. vol. 153; p. 800.
Rieck, Herman, Greenwood township, Vernon county, Wis. Woodworking-machine. No. 972,249; Oct. 11; Sp. p. 1616; Gaz. vol. 159; p. 284.
Riecke, Paul, Dessau, assignor to Ofenbau-Gesellschaft mit beschränkter Haftung, Munich, Germany. Device for pressing the doors of ovens against their seats. No. 962,669; June 28; Sp. p. 5134; Gaz. vol. 155; p. 897.
Riecke, Paul, Dessau, assignor to The Firm of Ofenbau-Gesellschaft mit beschrankter Haftung, Munich, Germany. Device for locking and releasing oven-doors. No. 964,055; July 12; Sp. p. 2270; Gaz. vol. 156; p. 373.
Rieckhoff, Louis J., Brighton, Mich. Indicator. No. 956,175; Apr. 26; Sp. p. 5394; Gaz. vol. 153; p. 946.
Ried, Philip, Lumberton, N. J. Window-screen. No. 957,906; May 17; Sp. p. 2995; Gaz. vol. 154; p. 539.
Rieder, Richard. (See Wiegand, Wilhelm, assignor.)
Riedy, Joseph F., Hamburg, Iowa. Rain-water filter. No. 968,983; Aug. 30; Sp. p. 6694; Gaz. vol. 157; p. 1165.
Rieger, August R., Chicago, Ill. Airship. No. 962,977; June 28; Sp. p. 5736; Gaz. vol. 155; p. 1004.
Rieger, David J., Chicago, Ill. Air-gun. No. 964,810; July 19; Sp. p. 3966; Gaz. vol. 156; p. 659.
Rieger, Josef. (See Ort, Rieger, and Ort.)
Riegger, Arnold F., New York, N. Y. Soap-dish. No. 950,559; Mar. 1; Sp. p. 209; Gaz. vol. 152; p. 34.
Riegler, Louis J., Ben Avon, Pa. Anticreeper for rails. No. 946,736; Jan. 18; Sp. p. 3850; Gaz. vol. 150; p. 642.
Rieha, Edward L., Milwaukee, Wis. Gas-retort furnace. No. 962,051; June 21; Sp. p. 3769; Gaz. vol. 155; p. 662.
Riehl, John B., Philadelphia, Pa., assignor to American Specialty Manufacturing Company, Dover, Del. Umbrella-notch-making machine. No. 953,232; Mar. 29; Sp. p. 5703; Gaz. vol. 152; p. 1035.
Riehl, John B., Philadelphia, assignor to American Specialty Manufacturing Company, Dover and Philadelphia, Pa. Umbrella-notch-making machine. No. 953,295; Mar. 29; Sp. p. 5842; Gaz. vol. 152; p. 1055.
Riehl, John B., Philadelphia, Pa., assignor to American Specialty Manufacturing Company, Dover, Del. Notch or runner-head for umbrellas and parasols. No. 979,561; Dec. 27; Sp. p. 4636; Gaz. vol. 161; p. 814.
Riehl, John J., Cleveland, Ohio. Burner. No. 957,098; May 3; Sp. p. 1285; Gaz. vol. 154; p. 204.
Riehs, William C., San Rafael, Cal. Lathe attachment. No. 972,720; Oct. 11; Sp. p. 2637; Gaz. vol. 159; p. 448.
Ries, John. (See Schuchardt, John A., Sr., and J. A., Jr., assignors.)
Ries, William P., Akron, Ohio. Bottle-holder. No. 961,647; June 14; Sp. p. 2905; Gaz. vol. 155; p. 502.
Riesenberg, Felix, New York, N. Y. Fountain-pen. No. 955,205; Apr. 19; Sp. p. 3256; Gaz. vol. 153; p. 583.
Riesenweber, Charles, St. Louis, Mo. Machine for folding and ironing the edges of collars. No. 951,917; Mar. 15; Sp. p. 2979; Gaz. vol. 152; p. 539.
Rieske, Otto G., T. Brennan, Jr., St. Louis Park, S. H. Phelps and E. R. Beeman, Minneapolis, Minn., assignors to Monitor Drill Company. Scraper device for disk drills. No. 975,459; Nov. 15; Sp. p. 3080; Gaz. vol. 160; p. 526.
Riesmeyer, Annie, *et al.* (See Scott, William H., assignor.)
Riest, Henry G., Schenectady, N. Y., assignor to General Electric Company. Means for ventilating dynamo-electric machines. No. 973,565; Oct. 25; Sp. p. 4513; Gaz. vol. 159; p. 788.
Rieth, Charles H., St. Louis, Mo., assignor to R. E. Renfro, Carbondale, Ill. Combination game-blocks. No. 956,827; May 3; Sp. p. 718; Gaz. vol. 154; p. 113.

Rietzel, Adolph F., Westerly, R. I., assignor to W. H. Rowe, Pittsburg, Pa. Reel. No. 966,706; Aug. 9; Sp. p. 1846; Gaz. vol. 157; p. 316.
Rietzel, Adolph F., Charlestown, R. I., assignor to W. H. Rowe, Pittsburg, Pa. Reel. No. 970,986; Sept. 20; Sp. p. 3926; Gaz. vol. 158; p. 671.
Riffe, Robert H. (See Brown, Ross D., assignor.)
Riffle, A. W., *et al.* (See Hill, Jasper N., assignor.)
Riga, Dieudonné. (See De Prins and Riga.)
Rigby, Clark F., Butler, assignor of one-half to E. A. McCabe, Pittsburg, Pa. Condiment-holder. No. 969,566; Sept. 6; Sp. p. 890; Gaz. vol. 158; p. 141.
Rigby, Grant W., Pittsburg, Pa. Briqueting-machine. No. 951,579; Mar. 8; Sp. p. 2267; Gaz. vol. 152; p. 393.
Rigby, John J., Brooklyn, N. Y. Machine for producing ring-blanks and applying them to articles. No. 962,786; June 28; Sp. p. 5387; Gaz. vol. 155; p. 941.
Rigby, John J., Brooklyn, N. Y. Producing a seamless ring member and applying it to the edge of an article. No. 968,804; Aug. 30; Sp. p. 6343; Gaz. vol. 157; p. 1105.
Rigby, John J., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for corrugating sheet metal. No. 948,551; Feb. 8; Sp. p. 1629; Gaz. vol. 151; p. 285.
Rigby, Nicholas L., assignor to A. Slaughter, Los Angeles, Cal. Support for nozzles of fountain-syringes. No. 960,404; June 7; Sp. p. 340; Gaz. vol. 155; p. 57.
Rigby, Robert. (See Smith and Rigby.)
Rigg, Archie T., Altoona, Pa. Spray-burner. No. 966,124; Aug. 2; Sp. p. 589; Gaz. vol. 157; p. 96.
Riggle, John W., and B. D. Snyder, Danville, Ill. Boring implement. No. 950,542; Mar. 1; Sp. p. 167; Gaz. vol. 152; p. 28.
Riggs, Albert W., assignor to himself and J. O. Fudge, Atlantic, Iowa. Check-controlled manually-operated lock. No. 954,700; Apr. 12; Sp. p. 2150; Gaz. vol. 153; p. 376.
Riggs, George P., St. Marys, W. Va. Gun attachment. No. 955,694; Apr. 19; Sp. p. 4333; Gaz. vol. 153; p. 749.
Riggs, George P., St. Marys, W. Va. Automatic writing-machine. No. 972,920; Oct. 18; Sp. p. 3111; Gaz. vol. 159; p. 545.
Riggs, George P., St. Marys, W. Va., assignor to E. De Moulin, Greenville, Ill. Trick-gun. No. 958,712; May 17; Sp. p. 4968; Gaz. vol. 154; p. 817.
Riggs, George R., Allegheny, Pa. Rotary motor. No. 961,017; June 7; Sp. p. 1562; Gaz. vol. 155; p. 262.
Riggs, Joshua N., South Bend, Ind. Soap shaving or granulating device. No. 950,959; Mar. 1; Sp. p. 1043; Gaz. vol. 152; p. 167.
Rignon, Joseph A., Gross-Lichterfelde-Ost, near Berlin, Germany. Electric-arc lamp. No. 953,859; Apr. 5; Sp. p. 356; Gaz. vol. 153; p. 63.
Rigny, Arthur A., Summit, N. J. Device for supporting tire-casings. No. 963,808; July 12; Sp. p. 1747; Gaz. vol. 156; p. 290.
Riikonen, John, Chicago, Ill. Painter's extension-plank. No. 968,805; Aug. 30; Sp. p. 6345; Gaz. vol. 157; p. 1106.
Riley, Bernard J., Harrison, N. J., assignor to Dennison Mfg. Company, New York, N. Y. Spool or reel for tape or the like. No. 947,997; Feb. 1; Sp. p. 454; Gaz. vol. 151; p. 73.
Riley, John, and R. D. Hunt, Laporte, Ind. Shock-absorber for vehicles. No. 959,170; May 24; Sp. p. 5984; Gaz. vol. 154; p. 1000.
Riley, Samuel L., assignor of one-half to E. M. Griggs, Palestine, Tex. Base for columns. No. 970,555; Sept. 20; Sp. p. 3013; Gaz. vol. 158; p. 525.
Riley, Thomas A., Central Falls, assignor to J. & P. Coats, Limited, Pawtucket, R. I. Cover-blank and box. No. 947,850; Feb. 1; Sp. p. 156; Gaz. vol. 151; p. 26.
Riley, Victor W. (See Rowing and Riley.)
Rimailho, Emile. (See Schneider and Rimailho.)
Rinebolt, Guy S., assignor to Franklin Core Rod and Gagger Co., Franklin, Pa. Gagger or sand-anchor. No. 978,782; Dec. 13; Sp. p. 2947; Gaz. vol. 161; p. 498.
Riney, John A. (See Riney, Thomas L. and J. A.)
Riney, Thomas L., Center, Mo., and J. A. Riney, Wymore, Nebr. Lamp attachment for vehicles. No. 972,573; Oct. 11; Sp. p. 2323; Gaz. vol. 159; p. 398.
Ring, Elsa N. (See Ring, John R., assignor.)
Ring, John R., assignor of one-half to E. N. Ring, Shelburn, Ind. Smoker's article. No. 947,762; Jan. 25; Sp. p. 6093; Gaz. vol. 150; 1016.
Ring, Ollie. (See Oliphant and Ring.)
Ringe, John C. (See Allen and Ringe.)
Ringenbach, Theobald. (See Kilb and Ringenbach.)
Ringland, Adam W., McAlester, Okla. Dry separator. No. 968,984; Aug. 30; Sp. p. 6695; Gaz. vol. 157; p. 1166.
Ringler, George A., Lancaster, Nebr. Shade and reflector for incandescent lights. No. 968,421; Aug. 23; Sp. p. 5497; Gaz. vol. 157; p. 948.
Ringnell, Julia E., Denver, Colo. Basket attachment for sewing-machines. No. 949,662; Feb. 15; Sp. p. 3913; Gaz. vol. 151; p. 682.
Ringqvist, Otto W., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Revolver. No. 968,691; Aug. 30; Sp. p. 6111; Gaz. vol. 157; p. 1069.
Ringrose, Frederick, Hamilton, Scotland. Automatic lubricator. No. 976,922; Nov. 29; Sp. p. 6264; Gaz. vol. 160; p. 1076.
Rink, Johan J., Copenhagen, Denmark. Apparatus for the electrolytical decomposition of alkali-chlorid solutions. No. 947,741; Jan. 25; Sp. p. 6052; Gaz. vol. 150; p. 1009.
Rinsche, Frank C., assignor to Universal Adding Machine Company, St. Louis, Mo. Adding-machine. No. 948,636; Feb. 8; Sp. p. 1817; Gaz. vol. 151; p. 312.
Riordan, Ellen O., *et al.* (See Humason, Granville A., assignor.)
Riordan, Robert W., Brooklyn, N. Y. Rotary valve. No. 958,313; May 17; Sp. p. 4188; Gaz. vol. 154; p. 683.
Riotte, Carl C., deceased; M. L. Riotte, administratrix, Jersey City, N. J. Pressure-regulated gas-valve for engines. No. 946,737; Jan. 18; Sp. p. 3852; Gaz. vol. 150; p. 643.
Riotte, Marie L., administratrix. (See Riotte, Carl C.)
Rioux, Alfred J., St. Johnsbury, Vt. Molding-machine. No. 951,699; Mar. 8; Sp. p. 2491; Gaz. vol. 152; p. 433.
Rioux, Alphonse, Nashua, N. H. Water-meter alarm. No. 975,072; Nov. 8; Sp. p. 2253; Gaz. vol. 160; p. 367.
Rioux, David, Springfield, Mass. Spiral tool-driver. No. 973,881; Oct. 25; Sp. p. 5179; Gaz. vol. 159; p. 900.
Ripley, James R., Memphis, Tenn. Dry-kiln. No. 978,209; Dec. 13; Sp. p. 1719; Gaz. vol. 161; p. 302.
Rippetoe, Ada B., Yellville, Ark. Envelop. No. 958,543; May 17; Sp. p. 4643; Gaz. vol. 154; p. 763.
Ripplinger, Henry, assignor of one-third to J. F. Aug, Belleville, Ill. Molding-machine. No. 955,356; Apr. 19; Sp. p. 3585; Gaz. vol. 153; p. 633.
Risbridger, Milton W. (See Risbridger, William C. and M. W.)
Risbridger, William C. and M. W., assignors of one-third to B. F. Johnson, Cleveland, Ohio. Fillet for patterns. No. 972,473; Oct. 11; Sp. p. 2075; Gaz. vol. 159; p. 361.
Rischard, Joseph J., Pasadena, Cal. Hose-clamp. No. 978,398; Dec. 13; Sp. p. 2127; Gaz. vol. 161; p. 370.
Risdon, John F., Bremerton, Wash. Car-fender. No. 947,851; Feb. 1; Sp. p. 157; Gaz. vol. 151; p. 26.
Rishel, John A., assignor of one-half to J. R. Oakley, Munhall, Pa. Approach-rail for track-scales. No. 972,250; Oct. 11; Sp. p. 1618; Gaz. vol. 159; p. 284.
Risk, Maurice E. (See Churchill and Risk.)
Risser, Arthur I., assignor to G. S. Webber, Chicago, Ill. Firearm. No. 975,720; Nov. 15; Sp. p. 3645; Gaz. vol. 160; p. 614.
Rissler, Albin P., assignor to Chicago Railway Equipment Company, Chicago, Ill. Beam for brake-beams and bolsters. No. 952,581; Mar. 22; Sp. p. 4305; Gaz. vol. 152; p. 788.
Risso, Luigi, Genoa, Italy. Shoe for walking on water. No. 974,520; Nov. 1; Sp. p. 1027; Gaz. vol. 160; p. 153.
Ritchay, Vincent O., and F. W. Besselman, Coraopolis, Pa. Bone-burner. No. 972,023; Oct. 4; Sp. p. 1126; Gaz. vol. 159; p. 189.
Ritchie, Foster, Acton, England. Combined telephone and telautograph exchange system. No. 965,748; July 26; Sp. p. 5932; Gaz. vol. 156; p. 1010.
Ritchie, Foster, Acton, England. Electrical relay. No. 976,216; Nov. 22; Sp. p. 4689; Gaz. vol. 160; p. 807.
Ritchie, H. B. (See Wattne, Fredrik, assignor.)
Rittase, Ephraim N., Manchester, Md. Engine-starter. No. 956,646; May 3; Sp. p. 304; Gaz. vol. 154; p. 50.
Ritten, Louis N., Minneapolis, Minn. Funnel. No. 955,553; Apr. 19; Sp. p. 4001; Gaz. vol. 153; p. 701.
Rittenhouse, Charles C., Los Angeles, Cal. Elevator. No. 966,769; Aug. 9; Sp. p. 2039; Gaz. vol. 157; p. 339.
Rittenhouse, James F., Liberty Mills, Ind. Hand-seeder. No. 963,067; July 5; Sp. p. 79; Gaz. vol. 156; p. 15.
Rittenhouse, W. W. (See Tomlinson, John K., assignor.)
Ritter, Adam, Cincinnati, Ohio. Door. No. 958,976; May 24; Sp. p. 5573; Gaz. vol. 154; p. 936.
Ritter, Adam, Cincinnati, Ohio. Lifting door. No. 965,940; Aug. 2; Sp. p. 190; Gaz. vol. 157; p. 33.
Ritter, Adam, Cincinnati, Ohio, assignor to The Ritter Folding Door Company, Covington, Ky. Door-opening mechanism. No. 952,713; Mar. 22; Sp. p. 4602; Gaz. vol. 152; p. 834.
Ritter, Charles L., Norristown, Pa. Wire-coiling apparatus. No. 952,582; Mar. 22; Sp. p. 4307; Gaz. vol. 152; p. 789.
Ritter, Christopher H., Dixon, Ill. Lard-extractor. No. 971,408; Sept. 27; Sp. p. 4788; Gaz. vol. 158; p. 838.
Ritter Folding Door Company, The. (See Ritter, Adam, assignor.)
Ritter, Frank, Rochester, N. Y. Dental chair. No. 945,194; Jan. 4; Sp. p. 386; Gaz. vol. 150; p. 65.
Ritter, Frank, Rochester, N. Y. Dental chair. No. 959,608; May 31; Sp. p. 6883; Gaz. vol. 154; p. 1171.
Ritter, Frank, Rochester, N. Y. Head-rest for chairs. No. 974,188; Nov. 1; Sp. p. 189; Gaz. vol. 160; p. 32.
Ritter, Frank, Rochester, N. Y. Valve mechanism for dental or other similar chairs. No. 974,189; Nov. 1; Sp. p. 193; Gaz. vol. 160; p. 32.
Ritter, Gilbert P., Chicago, Ill. Car-truck. No. 972,921; Oct. 18; Sp. p. 3115; Gaz. vol. 159; p. 545.
Ritter, Henry J., Tippecanoe City, Ohio. Type-writer cabinet. No. 972,922; Oct. 18; Sp. p. 3119; Gaz. vol. 159; p. 545.

Alphabetical list of patentees—Continued.

Ritter, Henry J., Tippecanoe City, Ohio. Type-writer cabinet. No. 972,923; Oct. 18; Sp. p. 3122; Gaz. vol. 159; p. 546.
Ritter, Henry R., Madison, Wis. Wire-clamp. No. 966,243; Aug. 2; Sp. p. 855; Gaz. vol. 157; p. 136.
Ritter, Joseph R., Jacksonville, Fla. Switch-throwing mechanism. No. 947,126; Jan. 18; Sp. p. 4680; Gaz. vol. 150; p. 773.
Ritter, William V. (See Thomas and Ritter.)
Rittman, Christian A., Sandusky, Ohio. Skirt-marker. No. 974,521; Nov. 1; Sp. p. 1028; Gaz. vol. 160; p. 153.
Ritzlaff, Oscar O., Milwaukee, Wis. Cuspidor-cleaner. No. 953,860; Apr. 5; Sp. p. 358; Gaz. vol. 153; p. 64.
Ritzler, George A., Kenton, Ohio. Wick-gage. No. 974,522; Nov. 1; Sp. p. 1030; Gaz. vol. 160; p. 153.
Ritzmann, Otto E., assignor to Peerless Auto Pull Co., Detroit, Mich. Draft attachment for motor-vehicles. No. 971,075; Sept. 27; Sp. p. 4137; Gaz. vol. 158; p. 730.
Riva, Pedro, Buenos Ayres, Argentina. Retting flax. No. 971,076; Sept. 27; Sp. p. 4139; Gaz. vol. 158; p. 730.
Rivers, Frank A., *et al.* (See Thibodeau, Peter, assignor.)
Rivers, Nona M. (See Roland, Agnes, assignor.)
Rivers, Philip J., New Rochelle, N. Y. Driving-gear for automobiles. No. 957,626; May 10; Sp. p. 2393; Gaz. vol. 154; p. 414.
Riverside Japannery, The. (See Priest, George W., assignor.)
Rivett, Edward, Boston, Mass. Grinding or polishing machine. No. 955,206; Apr. 19; Sp. p. 3257; Gaz. vol. 153; p. 584.
Rix, Edward A., San Francisco, Cal. Power set for automatic sprinklers. No. 952,640; Mar. 22; Sp. p. 4447; Gaz. vol. 152; p. 810.
Rixford, Oscar A., East Highgate, Vt. Tire-tread attachment. No. 978,210; Dec. 13; Sp. p. 1722; Gaz. vol. 161; p. 303.
Rizer, Louis S., Springfield, Ohio. Oscillating motor. No. 967,560; Aug. 16; Sp. p. 3680; Gaz. vol. 157; p. 633.
Roach, Harry F., St. Louis, Mo. Rail-joint. No. 954,590; Apr. 12; Sp. p. 1904; Gaz. vol. 153; p. 339.
Roach, Harry F., St. Louis, Mo. Rail-joint. No. 954,649; Apr. 12; Sp. p. 2048; Gaz. vol. 153; p. 360.
Roach, Harry F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Railway-track structure. No. 947,530; Jan. 25; Sp. p. 5646; Gaz. vol. 150; p. 939.
Roach, Harry F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Railway-track structure. No. 947,531; Jan. 25; Sp. p. 5650; Gaz. vol. 150; p. 939.
Roach, Harry F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Railway-track structure. No. 947,532; Jan. 25; Sp. p. 5651; Gaz. vol. 150; p. 939.
Roach, Harry F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Switch-frog. No. 961,533; June 14; Sp. p. 2669; Gaz. vol. 155; p. 464.
Roach, Harry F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Switch-frog. No. 961,534; June 14; Sp. p. 2672; Gaz. vol. 155; p. 465.
Roach, Harry F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Adjustable head-rod. No. 961,535; June 14; Sp. p. 2674; Gaz. vol. 155; p. 465.
Roach, William. (See Dickey and Roach.)
Roach, William R. (See Palmer, William G., assignor.)
Robarge, Peter, Willink, N. Y. Ice-tool. No. 964,453; July 12; Sp. p. 3066; Gaz. vol. 156; p. 503.
Robb, George, Pittsburg, Pa. Rigging or scaffold support. No. 961,018; June 7; Sp. p. 1567; Gaz. vol. 155; p. 263.
Robben, Clemens A., Angelus, Kans. Automatic binding attachment for baling-presses. No. 963,180; July 5; Sp. p. 386; Gaz. vol. 156; p. 55.
Robben, Clemens A., Angelus, Kans. Combined hay rake and stacker. No. 973,813; Oct. 25; Sp. p. 5032; Gaz. vol. 159; p. 875.
Robbins, Albert F., Waltham, Mass. Tool for removing the rollers of balance-wheel staffs in watch-movements. No. 979,562; Dec. 27; Sp. p. 4638; Gaz. vol. 161; p. 814.
Robbins, Alexander, Pittsburg, Pa. Flash-light device. No. 949,198; Feb. 15; Sp. p. 2975; Gaz. vol. 151; p. 527.
Robbins, Alexander, Kalamazoo, Mich. Miter-box. No. 976,296; Nov. 22; Sp. p. 4904; Gaz. vol. 160; p. 836.
Robbins, Frank D., Oakland, Cal. Combined mixer and carrier. No. 977,679; Dec. 6; Sp. p. 585; Gaz. vol. 161; p. 89.
Robbins, George B., Hinsdale, and W. E. Sharp, Chicago, Ill. Underframe for railway-cars. No. 966,054; Aug. 2; Sp. p. 461; Gaz. vol. 157; p. 74.
Robbins, George W., Laurel, Minn. Rail-joint. No. 977,045; Nov. 29; Sp. p. 6555; Gaz. vol. 160; p. 1119.
Robbins, Hyman. (See Peterson, George, assignor.)
Robbins, Ira, Philadelphia, Pa., assignor to Ira Robbins Company. Envelop-sealing machine. No. 946,071; Jan. 11; Sp. p. 2346; Gaz. vol. 150; p. 390.
Robbins, Ira, Philadelphia, Pa., assignor of one-fourth to C. L. Parker, Washington, D. C. Coin-controlled apparatus. No. 962,670; June 28; Sp. p. 5136; Gaz. vol. 155; p. 898.
Robbins, James E., Nebraska City, Nebr. Mechanical lettering device. No. 967,561; Aug. 16; Sp. p. 3684; Gaz. vol. 157; p. 633.
Robbins, John E. (See Kirkpatrick, Robbins, and Kirkpatrick.)
Robbins, John P., San Saba, Tex. Wheeled scraper. No. 947,944; Feb. 1; Sp. p. 350; Gaz. vol. 151; p. 56.
Robbins, Willis C. (See Weis and Robbins.)
Robbins, Willis C., Nyack, N. Y. Indicating device for sewing-machines. No. 951,967; Mar. 15; Sp. p. 3067; Gaz. vol. 152; p. 554.
Roberds, Garfield A., assignor of forty-five one-hundredths to J. W. Breyfogle and ten one-hundredths to C. H. Neal, Olathe, Kans. Camera attachment. No. 948,868; Feb. 8; Sp. p. 2294; Gaz. vol. 151; p. 390.
Roberson, Elige L., Tyler, Tex. Fish-hook. No. 956,176; Apr. 26; Sp. p. 5396; Gaz. vol. 153; p. 947.
Roberson, J. O., *et al.* (See Morris and Watkins, assignors.)
Robert Gair Company. (See Hoyt, Guy L., assignor.)
Robert Holmes & Brothers. (See Holmes, Grant, assignor.)
Robert, Joseph T., Chicago, Ill. Means for teaching parliamentary law. No. 946,868; Jan. 18; Sp. p. 4185; Gaz. vol. 150; p. 689.
Robert N. Bassett Company, The. (See Burns, Matthew F., assignor.)
Robert N. Bassett Company, The. (See Holden, Walter A., assignor.)
Robert Stock Manufacturing Co. (See Stock, Augusta M., assignor.)
Robert Stock Manufacturing Co. (See Stock, Robert and A. M., assignors.)
Robert, Zephir J., assignor of one-half to P. Dandurand, Jr., New Bedford, Mass. Window-curtain bracket. No. 951,700; Mar. 8; Sp. p. 2494; Gaz. vol. 152; p. 433.
Roberton, John, New York, N. Y. Window construction. No. 976,297; Nov. 22; Sp. p. 4906; Gaz. vol. 160; p. 837.
Roberts, Alexander, and A. Libert, Green Bay, Wis. Grinder for irregular surfaces. No. 974,523; Nov. 1; Sp. p. 1031; Gaz. vol. 160; p. 154.
Roberts, Bertrand J. P., South Kensington, London, England. Differential-pressure gage. No. 949,598; Feb. 15; Sp. p. 3795; Gaz. vol. 151; p. 661.
Roberts, Charles C., Ansonia, Conn. Gear-cutting machine. No. 953,059; Mar. 29; Sp. p. 5314; Gaz. vol. 152; p. 979.
Roberts, Charles W., Lockport, assignor to Forest Land & Mill Co., Tupper Lake, N. Y. Pulp. No. 954,209; Apr. 5; Sp. p. 1107; Gaz. vol. 153; p. 184.
Roberts, Clarence V., and J. Mander, assignors to Roberts & Mander Stove Company, Philadelphia, Pa. Combined gas and coal range. No. 962,244; June 21; Sp. p. 4193; Gaz. vol. 155; p. 728.
Roberts, David, Grantham, England. Mechanism for transmitting reciprocating motion. No. 975,283; Nov. 8; Sp. p. 2717; Gaz. vol. 160; p. 440.
Roberts, David, and C. James, Grantham, England. Internal-combustion engine. No. 971,024; Oct. 4; Sp. p. 1129; Gaz. vol. 159; p. 190.
Roberts, David, A. R. Bellamy, and C. James, Grantham, England. Governor for internal-combustion engines. No. 979,888; Dec. 27; Sp. p. 5352; Gaz. vol. 161; p. 925.
Roberts, Dwight J., Los Angeles, Cal. Hygienic hat. No. 966,770; Aug. 9; Sp. p. 2041; Gaz. vol. 157; p. 339.
Roberts, Edwin C. (See Brayton and Roberts.)
Roberts, Elmer H., Norwalk, Conn. Pipe-hanger. No. 971,077; Sept. 27; Sp. p. 4140; Gaz. vol. 158; p. 730.
Roberts, Ernest A., and N. L. Johnson, Buhl, Minn. Electrical hair-singeing device. No. 975,073; Nov. 8; Sp. p. 2256; Gaz. vol. 160; p. 367.
Roberts, Eugene, and A. H. Gibson, Lehi, Utah. Centrifugal machine. No. 957,715; May 10; Sp. p. 2573; Gaz. vol. 154; p. 445.
Roberts, Frank C., Bryn Mawr, and R. H. Miller, Noble, Pa. Refrigerating-chamber for cooling air. No. 953,179; Mar. 29; Sp. p. 5593; Gaz. vol. 152; p. 1018.
Roberts, Fred H., Sterling Colo. Continuous centrifugal machine. No. 962,052; June 21; Sp. p. 3774; Gaz. vol. 155; p. 665.
Roberts, Frederick, St. Louis, Mo. Type-writer clamp. No. 976,397; Nov. 22; Sp. p. 5137; Gaz. vol. 160; p. 871.
Roberts, George A., Winnipeg, Manitoba, Canada. Non-refillable bottle. No. 947,852; Feb. 1; Sp. p. 159; Gaz. vol. 151; p. 26.
Roberts, George P., Dallas, Tex. Gin-saw cleaner. No. 961,162; June 14; Sp. p. 1859; Gaz. vol. 155; p. 337.
Roberts, Gordon E. (See Jones and Roberts.)
Roberts, Henry, Pittsburg, Pa. Veneer barrel or package machine. No. 955,904; Apr. 26; Sp. p. 4809; Gaz. vol. 153; p. 851.
Roberts, Henry, Pittsburg, Pa. Lining-hoop-nailing horse. No. 955,905; Apr. 26; Sp. p. 4810; Gaz. vol. 153; p. 851.
Roberts, Henry, Pittsburg, Pa. Hoop-nailing jig. No. 955,906; Apr. 26; Sp. p. 4812; Gaz. vol. 153; p. 851.
Roberts, Henry, Pittsburg, Pa. Fence-machine. No. 955,907; Apr. 26; Sp. p. 4813; Gaz. vol. 153; p. 852.
Roberts, Henry, Pittsburg, Pa. Veneer-package machine. No. 977,222; Nov. 29; Sp. p. 6946; Gaz. vol. 160; p. 1180.
Roberts, Henry P., Boston, assignor to C. H. McDermott, Revere, Mass. Apparatus for defibering meats. No. 961,019; June 7; Sp. p. 1569; Gaz. vol. 155; p. 263.

Alphabetical list of patentees—Continued.

Roberts, Homer J., Evanston, Ill., assignor, by mesne assignments, to Homer Roberts Telephone Co. Party-line telephone system. No. 958,894; May 24; Sp. p. 5416; Gaz. vol. 154; p. 908.

Roberts, Homer J., Evanston, Ill., assignor, by mesne assignments, to Homer Roberts Telephone Co. Selective party-line telephone system. No. 976,298; Nov. 22; Sp. p. 4907; Gaz. vol. 160; p. 837.

Roberts, Horace, Chicago, Ill. Skate-sharpening machine. No. 967,439; Aug. 16; Sp. p. 3428; Gaz. vol. 157; p. 591.

Roberts, Isaiah L., Lockport, N. Y. Oil or grease resistant article. No. 970,643; Sept. 20; Sp. p. 3222; Gaz. vol. 158; p. 555.

Roberts, J. W. (See Winkler, Ehregott T., assignor.)

Roberts, James W., Pope, Tenn. Soil-pulverizing attachment for plows. No. 972,025; Oct. 4; Sp. p. 1132; Gaz. vol. 159; p. 190.

Roberts, John. (See Freak, George R., assignor.)

Roberts, John D., Wild Rose, Wis. Binder attachment. No. 949,911; Feb. 22; Sp. p. 4494; Gaz. vol. 151; p. 802.

Roberts, John P., Los Angeles, Cal. Liquid-fuel burner. No. 975,460; Nov. 15; Sp. p. 3082; Gaz. vol. 160; p. 527.

Roberts, John W., *et al.* (See Winkler, Ehregott T., assignor.)

Roberts, Joseph T., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Coil-supporting structure for dynamo-electric machines. No. 967,240; Aug. 16; Sp. p. 3025; Gaz. vol. 157; p. 523.

Roberts, Leander F., Howard, Kans. Door-lock. No. 949,548; Feb. 15; Sp. p. 3707; Gaz. vol. 151; p. 645.

Roberts, Leonard C., Nunda, N. Y. Feed-regulator. No. 958,314; May 17; Sp. p. 4190; Gaz. vol. 154; p. 683.

Roberts, Lewis A., assignor to Roberts Safety Lantern Manufacturing Company, Scranton, Pa. Lantern. No. 967,562; Aug. 16; Sp. p. 3685; Gaz. vol. 157; p. 634.

Roberts, Lewis A., assignor to Roberts Safety Lantern Manufacturing Company, Scranton, Pa. Lantern. No. 967,563; Aug. 16; Sp. p. 3687; Gaz. vol. 157; p. 634.

Roberts, Linas P., assignor of one-third to H. McGibbeny, Muncie, Ind. Mold in which to form plastic articles. No. 952,279; Mar. 15; Sp. p. 3669; Gaz. vol. 152; p. 657.

Roberts, Lyman R., Rutherford, N. J. Type-writing machine. No. 950,029; Feb. 22; Sp. p. 4804; Gaz. vol. 151; p. 845.

Roberts, Lyman R., Rutherford, N. J. Vacuum cleaning apparatus. No. 978,649; Dec. 13; Sp. p. 2683; Gaz. vol. 161; p. 456.

Roberts, Lyman R., and C. L. Davis, Detroit, Mich., assignors to Underwood Typewriter Company, New York, N. Y. Machine for perforating master-sheets for typewriter operators. No. 953,180; Mar. 29; Sp. p. 5596; Gaz. vol. 152; p. 1019.

Roberts & Mander Stove Company. (See Roberts and Mander, assignors.)

Roberts, Percy, Toronto, Ontario, Canada. Illuminating picture-frame. No. 947,127; Jan. 18; Sp. p. 4682; Gaz. vol. 150; p. 773.

Roberts, Robert R., Washington, D. C., assignor, by mesne assignments, to W. J. Robinson, New York, N. Y. Treating fibrous material. No. 952,996; Mar. 22; Sp. p. 5171; Gaz. vol. 152; p. 929.

Roberts, Robert R., Washington, D. C., assignor, by mesne assignments, to W. J. Robinson, New York, N. Y. Treating fibrous material. No. 953,010; Mar. 22; Sp. p. 5211; Gaz. vol. 152; p. 934.

Roberts Safety Lantern Manufacturing Company. (See Roberts, Lewis A., assignor.)

Roberts, Solomon P., Rockport, W. Va. Rein-protector. No. 978,650; Dec. 13; Sp. p. 2684; Gaz. vol. 161; p. 457.

Roberts, Thomas P., Knoxville, Tenn. Dumping-car. No. 966,860; Aug. 9; Sp. p. 2228; Gaz. vol. 157; p. 366.

Roberts, Tom. (See Christie and Roberts.)

Roberts, Wayne C., and G. E. Corser, Holyoke, Mass. Apparatus for removing old paper from walls. No. 975,284; Nov. 8; Sp. p. 2719; Gaz. vol. 160; p. 440.

Roberts, William, Anita, Iowa. Manure-loader. No. 948,552; Feb. 8; Sp. p. 1631; Gaz. vol. 151; p. 285.

Roberts, William D., Independence, Mo. Hay-stacker. No. 967,975; Aug. 23; Sp. p. 4528; Gaz. vol. 157; p. 795.

Roberts, William L., Fredonia, Pa. Clothes-pounder for washing-machines. No. 952,641; Mar. 22; Sp. p. 4448; Gaz. vol. 152; p. 810.

Roberts, William M., Columbia, Tenn. Harrow. No. 973,975; Oct. 25; Sp. p. 5356; Gaz. vol. 159; p. 932.

Roberts, William T. B., Leicester, assignor to O. V. Forbes, London, England. Machine for trimming the heels of boots and shoes. No. 974,708; Nov. 1; Sp. p. 1435; Gaz. vol. 160; p. 221.

Roberts, Zachariah A., and J. D. Hartwick, Carrollton, Ill. Device for hiving bees. No. 973,702; Oct. 25; Sp. p. 4811; Gaz. vol. 159; p. 836.

Robertson, Alexander S., assignor to D. F. Blyth, Ottawa, Ontario, Canada. Loose-leaf-binding hinge. No. 952,642; Mar. 22; Sp. p. 4450; Gaz. vol. 152; p. 811.

Robertson, Andrew R., Glasgow, Scotland. Bearing for centrifugal machines. No. 978,060; Dec. 6; Sp. p. 1374; Gaz. vol. 161; p. 220.

Robertson, Charles, South Bellingham, Wash. Can-filling apparatus. No. 979,096; Dec. 20; Sp. p. 3619; Gaz. vol. 161; p. 632.

Robertson, Charles F. (See Donnell, William J., assignor.)

Robertson, Charles H., Springfield, Ill. Sander. No. 960,584; June 7; Sp. p. 705; Gaz. vol. 155; p. 116.

Robertson, Charles J., Taunton, Mass., assignor to The Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 945,195; Jan. 4; Sp. p. 390; Gaz. vol. 150; p. 65.

Robertson, Charles J., Taunton, Mass., assignor to The Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 945,196; Jan. 4; Sp. p. 393; Gaz. vol. 150; p. 66.

Robertson, Charles J., Taunton, Mass., assignor to The Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 945,197; Jan. 4; Sp. p. 396; Gaz. vol. 150; p. 66.

Robertson, Charles J., Taunton, Mass., assignor to The Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 945,198; Jan. 4; Sp. p. 400; Gaz. vol. 150; p. 66.

Robertson, Charles J., Taunton, Mass., assignor to The Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 945,199; Jan. 4; Sp. p. 403; Gaz. vol. 150; p. 67.

Robertson, Charles J., Taunton, Mass., assignor to The Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 965,941; Aug. 2; Sp. p. 191; Gaz. vol. 157; p. 33.

Robertson, Charles J., Taunton, Mass., assignor to The Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 965,942; Aug. 2; Sp. p. 194; Gaz. vol. 157; p. 34.

Robertson, Charles J., Taunton, Mass., assignor to The Campbell Printing Press & Manufacturing Company, New York, N. Y. Ink-roll-cleaning mechanism for printing-presses. No. 968,806; Aug. 30; Sp. p. 6346; Gaz. vol. 157; p. 1106.

Robertson, Fannie B., Lohn, Tex. Envelop. No. 969,982; Sept. 13; Sp. p. 1812; Gaz. vol. 158; p. 308.

Robertson, George. (See White and Robertson.)

Robertson, George F., Charlotte, N. C. Fountain-pen filler. No. 953,438; Mar. 29; Sp. p. 6156; Gaz. vol. 152; p. 1105.

Robertson, Harry A. (See Bigham, Neal J., assignor.)

Robertson, Henry M., St. Paul, Minn., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Hose-coupling lock. No. 958,437; May 17; Sp. p. 4449; Gaz. vol. 154; p. 726.

Robertson, Henry M., St. Paul, Minn., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Hose-coupling lock. No. 958,438; May 17; Sp. p. 4450; Gaz. vol. 154; p. 727.

Robertson, James H., New York, N. Y. Extracting metals electrolytically. No. 978,211; Dec. 13; Sp. p. 1723; Gaz. vol. 161; p. 303.

Robertson, John, *et al.* (See Minion, George, assignor.)

Robertson, John A., assignor to Eastman Kodak Co., Rochester, N. Y. Camera. No. 975,461; Nov. 15; Sp. p. 3084; Gaz. vol. 160; p. 527.

Robertson, Peter L., Hamilton, Ontario, Canada. Screw. No. 975,285; Nov. 8; Sp. p. 2720; Gaz. vol. 160; p. 440.

Robertson, Samuel B. (See Newhall and Robertson.)

Robertson, Thomas E., Catford, England, assignor to General Electric Company. Incandescent electric lamp. No. 973,703; Oct. 25; Sp. p. 4813; Gaz. vol. 159; p. 837.

Robertson, William, Chicago, Ill. Drier. No. 950,603; Mar. 1; Sp. p. 293; Gaz. vol. 152; p. 48.

Robertson, William J., Newberg, Oreg. Collapsible shipping-crate. No. 977,969; Dec. 6; Sp. p. 1192; Gaz. vol. 161; p. 190.

Robertson, Willis S., *et al.* (See Brabham, John A., assignor.)

Robeson, Arthur. (See Moffett, Baker, and Robeson.)

Robeson, Jacob S., assignor to Robeson Process Company, Camden, N. J. Molded article of granular material. No. 947,128; Jan. 18; Sp. p. 4683; Gaz. vol. 150; p. 773.

Robeson, Jacob S., assignor to Robeson Process Company, Camden, N. J. Preparing granular material for molding purposes. No. 947,129; Jan. 18; Sp. p. 4684; Gaz. vol. 150; p. 773.

Robeson Process Company. (See Robeson, Jacob S., assignor.)

Robeson, Walter B., Joliet, Ill. Blacksmith's hardy. No. 968,885; Aug. 30; Sp. p. 6506; Gaz. vol. 157; p. 1133.

Robidoux, Louis, assignor of one-half to A. J. Berard, Providence, R. I. Hook attachment for harness and heddle-frames. No. 961,463; June 14; Sp. p. 2510; Gaz. vol. 155; p. 442.

Robin, Frederick A. G., Bayswater, England. Machine for wrapping and nesting hollow articles. No. 945,730; Jan. 4; Sp. p. 1570; Gaz. vol. 150; p. 242.

Robinett, Clinton, and J. P. Reid, Dayton, assignors to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaning apparatus. No. 977,223; Nov. 29; Sp. p. 6949; Gaz. vol. 160; p. 1181.

Robinson, Alexander W., Pendleton, Oreg. Flume. No. 967,241; Aug. 16; Sp. p. 3027; Gaz. vol. 157; p. 524.

Robinson, Arthur S., Decatur, Ill. Drawing or ruling pen. No. 967,835; Aug. 16; Sp. p. 4238; Gaz. vol. 157; p. 725.

Robinson, Arthur S. F., Barsham, Beccles, England. Gripping-tool. No. 979,563; Dec. 27; Sp. p. 4640; Gaz. vol. 161; p. 815.

Alphabetical list of patentees—Continued.

Robinson, Arthur W., Springfield, Vt. Music-leaf turner. No. 966,055; Aug. 2; Sp. p. 463; Gaz. vol. 157; p. 74.
Robinson, Arthur W., Montreal, Quebec, Canada. Cutter for hydraulic dredges. No. 977,901; Dec. 6; Sp. p. 1048; Gaz. vol. 161; p. 166.
Robinson, Charles E., assignor of one-third to F. L. Shuman, La Crosse, and one-third to J. A. Becker, Milwaukee, Wis. Cable-hanger. No. 967,564; Aug. 16; Sp. p. 3688; Gaz. vol. 157; p. 634.
Robinson, Clarence I., West New Brighton, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Refining petroleum. No. 968,692; Aug. 30; Sp. p. 6112; Gaz. vol. 157; p. 1069.
Robinson, Collin S., *et al.* (See Locke, William S., assignor.)
Robinson, Cyrus, Mount Vernon, N. Y. Apparatus for recovering values from ore solutions. No. 954,466; Apr. 12; Sp. p. 1637; Gaz. vol. 153; p. 298.
Robinson, Cyrus, New York, N. Y. Roasting-furnace. No. 968,265; Aug. 23; Sp. p. 5185; Gaz. vol. 157; p. 893.
Robinson, Daniel P., Baltimore, Md. Can end. No. 960,109; May 31; Sp. p. 7990; Gaz. vol. 154; p. 1342.
Robinson, Daniel P., assignor to Continental Can Company, Baltimore, Md. Can-soldering machine. No. 959,388; May 24; Sp. p. 6408; Gaz. vol. 154; p. 1072.
Robinson, Daniel P., assignor to Continental Can Company, Baltimore, Md. Can-soldering machine. No. 962,978; June 28; Sp. p. 5739; Gaz. vol. 155; p. 1005.
Robinson, Earl A., Emporia, Kans. Eraser-cleaner. No. 951,338; Mar. 8; Sp. p. 1779; Gaz. vol. 152; p. 313.
Robinson, Earl A., Emporia, Kans. Tennis-court marker. No. 961,020; June 7; Sp. p. 1570; Gaz. vol. 155; p. 263.
Robinson, Eben B., Floodwood, Minn. Printing-press. No. 952,583; Mar. 22; Sp. p. 4309; Gaz. vol. 152; p. 789.
Robinson, Edgar S., Paterson, N. J. Friction spanner, die, and pipe stock. No. 949,248; Feb. 15; Sp. p. 3068; Gaz. vol. 151; p. 543.
Robinson, Edward J., Great Neck, N. Y. Fire-kindler. No. 967,242; Aug. 16; Sp. p. 3029; Gaz. vol. 157; p. 524.
Robinson, Edward T., assignor to St. Louis Car Company, St. Louis, Mo. Passenger-car. No. 976,601; Nov. 22; Sp. p. 5569; Gaz. vol. 160; p. 941.
Robinson, Edwin L. (See Snyder, Ward H., assignor.)
Robinson, Edwin N., Hot Springs, S. D. Pole-tip. No. 961,318; June 14; Sp. p. 2219; Gaz. vol. 155; p. 393.
Robinson, Elmer C. (See Lyda and Robinson.)
Robinson, Ernest R., New Castle, Del. Device for delivering mail from moving trains. No. 978,651; Dec. 13; Sp. p. 2685; Gaz. vol. 161; p. 457.
Robinson, Frank A., assignor to W. G. Van Loon, Albany, N. Y. Electric water-heater. No. 965,332; July 26; Sp. p. 5041; Gaz. vol. 156; p. 866.
Robinson, Frank A., assignor to W. G. Van Loon, Albany, N. Y. Electric water-heater. No. 965,333; July 26; Sp. p. 5044; Gaz. vol. 156; p. 867.
Robinson, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 968,985; Aug. 30; Sp. p. 6698; Gaz. vol. 157; p. 1166.
Robinson, Frank S., Detroit, Mich. Reinforced concrete construction. No. 979,564; Dec. 27; Sp. p. 4643; Gaz. vol. 161; p. 815.
Robinson, Frank T., Chicago, Ill. Door-securer. No. 953,861; Apr. 5; Sp. p. 360; Gaz. vol. 153; p. 64.
Robinson, George A. (See Weddle and Robinson.)
Robinson, George A., Boston, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Valve-controlled device for drawing liquids. No. 976,398; Nov. 22; Sp. p. 5138; Gaz. vol. 160; p. 871.
Robinson, George H., London, England. Manifolding device. No. 965,227; July 26; Sp. p. 4799; Gaz. vol. 156; p. 830.
Robinson, George H., London, England, assignor to The Carter-Crume Company, Limited, Toronto, Canada. Loose-leaf binder. No. 964,811; July 19; Sp. p. 3967; Gaz. vol. 156; p. 659.
Robinson, Georgiana, New York, N. Y. Washboiler. No. 975,573; Nov. 15; Sp. p. 3337; Gaz. vol. 160; p. 566.
Robinson, Harry, Sheffield, Ala. Nut-lock. No. 957,576; May 10; Sp. p. 2294; Gaz. vol. 154; p. 398.
Robinson, Harry A., Chicago, Ill. Metering panel-board. No. 961,464; June 14; Sp. p. 2512; Gaz. vol. 155; p. 442.
Robinson, Harry C., Coatesville, Pa. Electric switch. No. 950,305; Feb 22; Sp. p. 5355; Gaz. vol. 151; p. 940.
Robinson, Harry C., Coatesville, Pa. Electric-switch attachment. No. 956,421; Apr. 26; Sp. p. 5916; Gaz. vol. 153; p. 1029.
Robinson, Harry E., New York, N. Y. Cigarette-former. No. 960,110; May 31; Sp. p. 7991; Gaz. vol. 154; p. 1343.
Robinson, Harry S., Fallston, assignor to C. B. Mann, Jr., Baltimore, Md. Wheel for cars for aerial cableways. No. 947,085; Jan. 18; Sp. p. 4608; Gaz. vol. 150; p. 761.
Robinson, Henry J., Cleveland, Ohio. Floor and ceiling plate. No. 957,000; May 3; Sp. p. 1089; Gaz. vol. 154; p. 171.
Robinson, Henry O., Brookline, and C. Steadman, Salem, Mass. Kiln, furnace, &c. No. 971,642; Oct. 4; Sp. p. 277; Gaz. vol. 159; p. 49.
Robinson, Howard B., Hartford, Conn. Tool-holder. No. 963,068; July 5; Sp. p. 81; Gaz. vol. 156; p. 16.
Robinson, J. W. (See Baker, Willard D., assignor.)
Robinson, Jackson, Pittsburg, Pa. Furnace-door. No. 975,892; Nov. 15; Sp. p. 3993; Gaz. vol. 160; p. 673.
Robinson, James, Buffalo, N. Y. Hitching and releasing device. No. 971,078; Sept. 27; Sp. p. 4141; Gaz. vol. 158; p. 730.
Robinson, James R., Mount Lebanon, Pa. Rotary fan. No. 956,781; May 3; Sp. p. 600; Gaz. vol. 154; p. 96.
Robinson, John J., New York, N. Y. Stretching-frame. No. 974,600; Nov. 1; Sp. p. 1194; Gaz. vol. 160; p. 183.
Robinson, Joseph E., Wheeling, W. Va. Nut-lock. No. 972,924; Oct. 18; Sp. p. 3123; Gaz. vol. 159; p. 546.
Robinson, Joseph V., Salem, Oreg. Automatic air and steam coupling. (Reissue.) No. 13,138; July 26; Sp. p. 6163; Gaz. vol. 156; p. 1045.
Robinson, Joseph W. (See Buck, Louis G., assignor.)
Robinson, Joshua, Lawrence, assignor to Draper Company, Hopedale, Mass. Filling-feeler for looms. No. 970,644; Sept. 20; Sp. p. 3224; Gaz. vol. 158; p. 555.
Robinson, Lawrence D., Lenox, Ga. Motor-cycle. No. 948,250; Feb. 1; Sp. p. 962; Gaz. vol. 151; p. 158.
Robinson, Lewis T., Schenectady, N. Y., assignor to General Electric Company. Resistance-box. No. 963,395; July 5; Sp. p. 871; Gaz. vol. 156; p. 128.
Robinson, Lewis T., Schenectady, N. Y., assignor to General Electric Company. Curve-drawing instrument. No. 974,190; Nov. 1; Sp. p. 195; Gaz. vol. 160; p. 33.
Robinson, Lewis T., and R. Miller, Jr., Schenectady, N. Y., assignors to General Electric Company. Film-holder for oscillographs. No. 957,257; May 10; Sp p. 1637; Gaz. vol. 154; p. 289.
Robinson, Major J., Longbeach, Cal. Transmission-gear. No. 953,233; Mar. 29; Sp. p. 5705; Gaz. vol. 152; p. 1036.
Robinson Manufacturing Company. (See Petrikin and Dimm, assignors.)
Robinson, Maurice, and H. S. Neale, Pittsburg, Pa. Bottle-crate rack. No. 962,671; June 28; Sp. p. 5139; Gaz. vol. 155; p. 898.
Robinson, Ralph C., Boise, Idaho. Go-cart. No. 961,163; June 14; Sp. p. 1861; Gaz. vol. 155; p. 337.
Robinson, Robert E., *et al.*, trustees. (See Blackmore, Henry S., assignor.)
Robinson, Robert F., and H. A. Owen, Whitinsville, Mass. Trolley-pole. No. 977,224; Nov. 29; Sp. p. 6951; Gaz. vol. 160; p. 1181.
Robinson, Roy H., Chicago, Ill. Composite wall construction. No. 969,408; Sept. 6; Sp. p. 544; Gaz. vol. 158; p. 87.
Robinson, Roy H., Chicago, Ill. Composite building-frame structure. No. 973,814; Oct. 25; Sp. p. 5034; Gaz. vol. 159; p. 875.
Robinson, Roy H., Chicago, Ill. Composite building-frame structure. No. 973,815; Oct. 25; Sp. p. 5035; Gaz. vol. 159; p. 875.
Robinson, Roy P., Brilliant, Ohio. Water-wheel. No. 957,099; May 3; Sp. p. 1286; Gaz. vol. 154; p. 204.
Robinson, Samuel T., Walbridge, Ohio. Switch-chair. No. 961,261; June 14; Sp. p. 2066; Gaz. vol. 155; p. 372.
Robinson, Seymour. (See Schneider, Gottleib, assignor.)
Robinson, Stanley D., Hamilton, Ontario, Canada. Molding-flask sliding hinge. No. 975,159; Nov. 8; Sp. p. 2447; Gaz. vol. 160; p. 397.
Robinson, Sterling P., Galena, Kans. Grate for concentrator-jigs. No. 960,111; May 31; Sp. p. 7992; Gaz. vol. 154; p. 1343.
Robinson, Vincent. (See Lisle, Myron C., assignor.)
Robinson, William. (See Douglas and Robinson.) (Reissue.)
Robinson, William, Brooklyn, N. Y. Turbine. No. 945,807; Jan. 11; Sp. p. 1771; Gaz. vol. 150; p. 297.
Robinson, William, Brooklyn, N. Y. Turbine. No. 945,808; Jan. 11; Sp. p. 1774; Gaz. vol. 150; p. 298.
Robinson, William, Brooklyn, N. Y. Turbine. No. 945,809; Jan. 11; Sp. p. 1777; Gaz. vol. 150; p. 299.
Robinson, William, Brooklyn, N. Y. Turbine. No. 945,810; Jan. 11; Sp. p. 1781; Gaz. vol. 150; p. 299.
Robinson, William, Brooklyn, N. Y. Turbine. No. 945,811; Jan. 11; Sp. p. 1785; Gaz. vol. 150; p. 299.
Robinson, William, Brooklyn, N. Y., assignor to Miami Cycle & Manufacturing Company, Middletown, Ohio. Vehicle brake and coaster. No. 968,604; Aug. 30; Sp. p. 5892; Gaz. vol. 157; p. 1038.
Robinson, William C., Pittsburg, Pa. Coated metallic article. No. 951,580; Mar. 8; Sp. p. 2269; Gaz. vol. 152; p. 393.
Robinson, William C., Pittsburg, Pa. Fitting for electric conduits. No. 971,216; Sept. 27; Sp. p. 4430; Gaz. vol. 158; p. 776.
Robinson, William G., Guthrie, Okla. Combination hog-ringer and tool. No. 962,979; June 28; Sp. p. 5743; Gaz. vol. 155; p. 1005.
Robinson, William J. (See Roberts, Robert R., assignor.)
Robinson, William S., *et al.* (See Omalia, Michael, assignor.)
Robinson, William W., Philadelphia, assignor of one-half to J. H. Mathis, Primos, Pa. Dumping-scow. No. 950,242; Feb. 22; Sp. p. 5234; Gaz. vol. 151; p. 918.
Robinsteen, Charles H. (See Koogler, John B., assignor.)
Robison, Edward J., Chillicothe, Mo Bedstead. No. 964,812; July 19; Sp. p. 3970; Gaz. vol. 156; p. 660.

Alphabetical list of patentees—Continued.

Robison, John G., Cleveland, assignor of one-half to W. T. Busser, Piqua, Ohio. Buttoning device. No. 976,098; Nov. 15; Sp. p. 4398; Gaz. vol. 160; p. 745.
Robison, Merritt D., San Francisco, Cal. Knife-cleaner. No. 977,680; Dec. 6; Sp. p. 586; Gaz. vol. 161; p. 90.
Roblin, Edwin, Lansing, Mich. Vehicle running-gear. No. 969,080; Aug. 30; Sp. p. 6892; Gaz. vol. 157; p. 1200.
Roblin, Leslie G. London, Ontario, Canada. Wedge-bolt lock. No. 976,497; Nov. 22; Sp. p. 5344; Gaz. vol. 160; p. 906.
Roblin, Richard O., Rochester, N. Y. Game apparatus. No. 951,701; Mar. 8; Sp. p. 2495; Gaz. vol. 152; p. 433.
Robson, George, London, England. Automatic gas lighter and extinguisher. No. 975,160; Nov. 8; Sp. p. 2449; Gaz. vol. 160; p. 398.
Robson, George, London, England. Automatic gas lighter and extinguisher. No. 975,161; Nov. 8; Sp. p. 2457; Gaz. vol. 160; p. 398.
Robson, George, London, England. Plug-cock. No. 975,162; Nov. 8; Sp. p. 2462; Gaz. vol. 160; p. 399.
Robson, John H., Huddersfield, England. Machine for mercerizing, dyeing, or like treatment of loose or woven cotton or other vegetable fiber. No. 975,074; Nov. 8; Sp. p. 2258; Gaz. vol. 160; p. 368.
Roby, Luther E. (See Pattison and Roby.)
Roche, Francis J., Somerville, Mass. Trolley-catcher. No. 977,476; Dec. 6; Sp. p. 109; Gaz. vol. 161; p. 19.
Roche, Francis J., Somerville, assignor of one-half to H. L. Libby, Boston, Mass. Bell-operating mechanism for railway-cars. No. 948,403; Feb. 8; Sp. p. 1316; Gaz. vol. 151; p. 236.
Roche, Herbert N., assignor to T. B. Gray, San Francisco, Cal. Electric water-heater. No. 967,058; Aug. 9; Sp. p. 2641; Gaz. vol. 157; p. 434.
Roche, James, assignor to Eagle Lock Co., Terryville, Conn. Master-key tumbler-lock. No. 950,795; Mar. 1; Sp. p. 725; Gaz. vol. 152; p. 116.
Roche, James, assignor to Eagle Lock Co., Terryville, Conn. Keyhole-cover for locks. No. 952,643; Mar. 22; Sp. p. 4451; Gaz. vol. 152; p. 811.
Roche, James, assignor to Eagle Lock Co., Terryville, Conn. Flat-key lock. No. 965,409; July 26; Sp. p. 5195; Gaz. vol. 156; p. 891.
Roche, Jean J., St. Antoine, France. Stringed musical instrument. No. 976,299; Nov. 22; Sp. p. 4917; Gaz. vol. 160; p. 838.
Roche, John, New York, assignor to A. Oliver, Brooklyn, N. Y. Filter. No. 964,696; July 19; Sp. p. 3739; Gaz. vol. 156; p. 621.
Roche, John, and A. Oliver, assignors to Oliver-Roche Company, New York, N. Y. Purifying water. No. 952,842; Mar. 22; Sp. p. 4882; Gaz. vol. 152; p. 879.
Roche, William J., Cochranton, Pa., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 955,207; Apr. 19; Sp. p. 3263; Gaz. vol. 153; p. 584.
Roche, William J., Cochranton, Pa., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 965,410; July 26; Sp. p. 5196; Gaz. vol. 156; p. 892.
Roche, William J., Cochranton, Pa., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 979,800; Dec. 27; Sp. p. 5172; Gaz. vol. 161; p. 896.
Roche, William J., New Bethlehem, Pa., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 975,075; Nov. 8; Sp. p. 2260; Gaz. vol. 160; p. 368.
Rochefort, Octave, assignor to Compagnie Générale Radio-Telegraphique Carpentier, Gaiffe, Rochefort, Paris, France. Wireless telegraphy or wireless telephony. No. 972,721; Oct. 11; Sp. p. 2638; Gaz. vol. 159; p. 448.
Rocheleau, Louis T. (See Metcalf and Rocheleau.)
Rocheleau, Walter C. (See Metcalf and Rocheleau.)
Rochester Stamping Company. (See Cross, Frederick J., assignor.)
Rochester Stamping Company. (See Swan, Alfred H. S., assignor.)
Rochez, Harry, Twickenham, London, England. Theatrical appliance. No. 950,786; Mar. 1; Sp. p. 702; Gaz. vol. 152; p. 112.
Rochotsch, Reinhold, assignor of one-half to J. Oucsek, Pittsburg, Pa. Railway automatic signal. No. 960,706; June 7; Sp. p. 952; Gaz. vol. 155; p. 158.
Rockey, Walter S., and H. Eldridge, New York, N. Y. Flux for brass plating. No. 971,563; Oct. 4; Sp. p. 115; Gaz. vol. 159; p. 22.
Rockey, Walter S., and H. Eldridge, New York, N. Y. Flux for protecting a bath of copper or brass. No. 971,564; Oct. 4; Sp. p. 116; Gaz. vol. 159; p. 22.
Rockey, Walter S., and H. Eldridge, New York, N. Y. Refining copper. No. 978,212; Dec. 13; Sp. p. 1725; Gaz. vol. 161; p. 303.
Rockey, Walter S., and H. Eldridge, New York, N. Y. Expelling gases from metals. No. 979,204; Dec. 20; Sp. p. 3884; Gaz. vol. 161; p. 672.
Rockford Drilling Machine Company. (See Milne, Robert, assignor.)
Rockford Lathe & Drill Company. (See Johnson, William B., assignor.)
Rockhill, John D., Conrad, Iowa. Trimmer for phonograph-records. No. 974,435; Nov. 1; Sp. p. 808; Gaz. vol. 160; p. 122.
Rockman, Soren C. (See Butler and Rockman.)
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Ball-grinding machine. No. 949,912; Feb. 22; Sp. p. 4495; Gaz. vol. 151; p. 803.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Motor-vehicle. No. 961,372; June 14; Sp. p. 2330; Gaz. vol. 155; p. 411.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Variable-speed coasting and braking hub. No. 962,245; June 21; Sp. p. 4195; Gaz. vol. 155; p. 729.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Pneumatic spring. No. 962,246; June 21; Sp. p. 4198; Gaz. vol. 155; p. 729.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Connection for vehicle-wheels. No. 962,247; June 21; Sp. p. 4201; Gaz. vol. 155; p. 730.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Mechanism for feeding fuel. No. 962,248; June 21; Sp. p. 4203; Gaz. vol. 155; p. 730.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Cooling means for motors. No. 962,249; June 21; Sp. p. 4205; Gaz. vol. 155; p. 730.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Cooling means for motors. No. 962,250; June 21; Sp. p. 4209; Gaz. vol. 155; p. 731.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Pump. No. 962,251; June 21; Sp. p. 4211; Gaz. vol. 155; p. 731.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Equalizing device. No. 962,252; June 21; Sp. p. 4212; Gaz. vol. 155; p. 731.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Controller. No. 962,253; June 21; Sp. p. 4214; Gaz. vol. 155; p. 731.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Motor. No. 962,254; June 21; Sp. p. 4221; Gaz. vol. 155; p. 732.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Sparking apparatus. No. 962,255; June 21; Sp. p. 4229; Gaz. vol. 155; p. 733.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Vehicle-body support. No. 962,256; June 21; Sp. p. 4231; Gaz. vol. 155; p. 733.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Steering device. No. 962,257; June 21; Sp. p. 4233; Gaz. vol. 155; p. 733.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Vehicle. No. 962,258; June 21; Sp. p. 4237; Gaz. vol. 155; p. 733.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Support for vehicle-bodies. No. 962,259; June 21; Sp. p. 4239; Gaz. vol. 155; p. 734.
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Carbonizing. No. 975,076; Nov. 8; Sp. p. 2263; Gaz. vol. 160; p. 369
Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Carbonizing apparatus. No. 975,077; Nov. 8; Sp. p. 2265; Gaz. vol. 160; p. 369.
Rockwell, Byrd C., Malvern, Ark. Screen-door. No. 957,100; May 3; Sp. p. 1287; Gaz. vol. 154; p. 204.
Rockwell, Byrd C., Malvern, Ark. Collapsible crate. No. 972,925; Oct. 18; Sp. p. 3124; Gaz. vol. 159; p. 546.
Rockwell, Byrd C., assignor of one-half to N. A. Webster, Malvern, Ark. Lawn-swing. No. 952,360; Mar. 15; Sp. p. 3827; Gaz. vol. 152; p. 684.
Rockwell Furnace Company. (See Quigley, Wirt S., assignor.)
Rockwell, Hugh M., assignor, by mesne assignments, to The New Departure Manufacturing Company, Bristol, Conn. Shaft-coupling. No. 966,474; Aug. 9; Sp. p. 1338; Gaz. vol. 157; p. 237.
Rockwell, Robert R., Evanston, assignor of one-half to C. L. Anderson, Chicago, Ill. Corner-fastening. No. 962,528; June 28; Sp. p. 4835; Gaz. vol. 155; p. 850.
Rockwood, Anna, St. Paul, Minn. Transplanting-box. No. 965,601; July 26; Sp. p. 5636; Gaz. vol. 156; p. 959.
Rockwood, George I., Worcester, Mass. Automatic sprinkler. No. 951,339; Mar. 8; Sp. p. 1781; Gaz. vol. 152; p. 313.
Rockwood, George I., Worcester, Mass. Strut for automatic sprinklers. No. 956,733; May 3; Sp. p. 502; Gaz. vol. 154; p. 81.
Rockwood, George I., Worcester, Mass. Apparatus for operating alarms or other devices. No. 970,953; Sept. 20; Sp. p. 3867; Gaz. vol. 158; p. 660.

Alphabetical list of patentees—Continued.

Ród, Lars, and A. F. Atwood, Attleboro, Mass. Guard attachment for bottle-capping machines. No. 963,181; July 5; Sp. p. 393; Gaz. vol. 156; p. 55.
Rodda, Horace W., South Kensington, London, England. Machine for washing plates or other tableware. No. 972,251; Oct. 11; Sp. p. 1620; Gaz. vol. 159; p. 284.
Rode, Wilhelm, Steglitz, assignor to Dr. Boes & Co., Gross Lichterfelde, near Berlin, Germany. Kite. No. 972,646; Oct. 11; Sp. p. 2483; Gaz. vol. 159; p. 423.
Rodebaugh, Charles D., *et al.* (See Wynn, Robert E., assignor.)
Roderick Lean Manufacturing Company. (See Warne and McLean, assignors.)
Rodger Ballast Car Company. (See Hart, Harry S., assignor.)
Rodger, James B., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Making handles for ladles. No. 978,652; Dec. 13; Sp. p. 2688; Gaz. vol. 161; p. 457.
Rodgers, Archibald, and W. C. White, Columbus, Ohio. Gearing. No. 951,995; Mar. 15; Sp. p. 3123; Gaz. vol. 152; p. 563.
Rodgers, Charles H. (See Thomas and Rodgers.)
Rodgers, Guy R. (See Shorb and Rodgers.)
Rodgers, J. M., *et al.* (See McPherson, William E., assignor.)
Rodgers, James T., assignor of one-fourth to H. C. Turley, Natchez, Miss. Cotton-grabot cleaner. No. 953,296; Mar. 29; Sp. p. 5844; Gaz. vol. 152; p. 1056.
Rodgers, Thomas E., assignor of one-half to W. Goodman, Memphis, Tenn. Surgical appliance. No. 959,389; May 24; Sp. p. 6410; Gaz. vol. 154; p. 1072.
Rodgers, Walter S., and J. Sein, El Paso, Tex. Injection apparatus. No. 963,731; July 5; Sp. p. 1562; Gaz. vol. 156; p. 240.
Rodgers, William J., Lewiston, Minn. Stock-magazine for single-shot rifles. No. 950,515; Mar. 1; Sp. p. 117; Gaz. vol. 152; p. 19.
Rodham, John, Uniontown, Pa. Mold. No. 967,836; Aug. 16; Sp. p. 4239; Gaz. vol. 157; p. 725.
Rodhe, Olof, Stocksund, Sweden. Pump driven by means of compressed or rarefied gas. No. 947,533; Jan. 25; Sp. p. 5652; Gaz. vol. 150; p. 940.
Rodin, Charles F., San Francisco, Cal. Shock-absorber. No. 974,709; Nov. 1; Sp. p. 1437; Gaz. vol. 160; p. 221.
Rodionow, Wladimir. (See Blank and Rodionow.)
Rodman, Earl C., West Point, Iowa. Telephone system. No. 958,315; May 17; Sp. p. 4192; Gaz. vol. 154; p. 684.
Rodman, Hugh, Pittsburg, Pa. Re-treating cementation compounds. No. 949,441; Feb. 15; Sp. p. 3496; Gaz. vol. 151; p. 611.
Rodman, Hugh, Pittsburg, Pa. Cementing material and making the same. No. 949,442; Feb. 15; Sp. p. 3497; Gaz. vol. 151; p. 611.
Rodman, Hugh, Pittsburg, Pa. Cementation by dry packing. No. 949,443; Feb. 15; Sp. p. 3498; Gaz. vol. 151; p. 611.
Rodman, Hugh, Pittsburg, Pa. Case-hardening or cementing. No. 949,444; Feb. 15; Sp. p. 3499; Gaz. vol. 151; p. 611.
Rodman, Hugh, Pittsburg, Pa. Cementing low-carbon iron. No. 949,445; Feb. 15; Sp. p. 3500; Gaz. vol. 151; p. 611.
Rodman, Hugh, Pittsburg, Pa. Case-hardening material. No. 949,446; Feb. 15; Sp. p. 3500; Gaz. vol. 151; p. 611.
Rodman, Hugh, Pittsburg, Pa. Carbonizing or case-hardening low-carbon steel. No. 949,447; Feb. 15; Sp. p. 3501; Gaz. vol. 151; p. 611.
Rodman, Hugh, Pittsburg, Pa. Case-hardening or cementing material. No. 949,448; Feb. 15; Sp. p. 3502; Gaz. vol. 151; p. 612.
Rodman, Hugh, Pittsburg, Pa. Cementation or case-hardening material. No. 949,449; Feb. 15; Sp. p. 3503; Gaz. vol. 151; p. 612.
Rodman, Hugh, Pittsburg, Pa. Case-hardening or cementing material. No. 949,549; Feb. 15; Sp. p. 3710; Gaz. vol. 151; p. 645.
Rodreick, David, assignor to J. Mason, San Diego, Cal. Vacuum and flushing apparatus. No. 947,189; Jan. 18; Sp. p. 4808; Gaz. vol. 150; p. 793.
Rodrigues, Manuel R., New York, N. Y. Cot-holder. No. 958,895; May 24; Sp. p. 5428; Gaz. vol. 154; p. 909.
Roe, Ernest S., assignor to Markham Air Rifle Company, Plymouth, Mich. Combined air-rifle, rubber ball, and pop-gun. No. 977,549; Dec. 6; Sp. p. 309; Gaz. vol. 161; p. 45.
Roe, Forrest H., Batesville, Ohio. Automatic air-brake coupling. No. 962,980; June 28; Sp. p. 5744; Gaz. vol. 155; p. 1006.
Roe, John M., assignor to Under-Feed Stoker Company of America, Chicago, Ill. Valve-controlling mechanism. No. 951,340; Mar. 8; Sp. p. 1783; Gaz. vol. 152; p. 313.
Roe, Noble H., Marceline, Mo. Rail-joint. No. 965,540; July 26; Sp. p. 5511; Gaz. vol. 156; p. 939.
Roebuck, Alvah C., Chicago, Ill. Kinetoscope. No. 955,477; Apr. 19; Sp. p. 3839; Gaz. vol. 153; p. 675.
Roebuck, Alvah C., Chicago, Ill. Film-reeling mechanism. No. 961,536; June 14; Sp. p. 2678; Gaz. vol. 155; p. 465.
Roecker, John, Jr., assignor of one-half to R. A. Bergner, Kansas City, Mo. Finger-guard penholder. No. 979,801; Dec. 27; Sp. p. 5174; Gaz. vol. 161; p. 897.
Roed, Olaf A., Denver, Colo. Envelop-opener. No. 954,884; Apr. 12; Sp. p. 2613; Gaz. vol. 153; p. 444.
Roed, Olaf A., Denver, Colo. Water-elevating apparatus. No. 969,727; Sept. 6; Sp. p. 1215; Gaz. vol. 158; p. 197.
Roeder, Franz, Wiesbaden, Germany. Transferring device for ships or vessels. No. 954,135; Apr. 5; Sp. p. 904; Gaz. vol. 153; p. 157.
Roeder, Wilhelm. (See Posselt, Anton, assignor.)
Roeder, Wilhelm, Hanover, Germany. Automatically-operated gun for scaring birds or like purposes. No. 952,018; Mar. 15; Sp. p. 3168; Gaz. vol. 152; p. 570.
Roedler, Oliver C., St. Louis, Mo. Nut-lock. No. 964,813; July 19; Sp. p. 3972; Gaz. vol. 156; p. 660.
Roehl, Charles B. (See Hilborn and Roehl.)
Roehm, Joseph P., Philadelphia, Pa. Lap-board. No. 960,112; May 31; Sp. p. 7993; Gaz. vol. 154; p. 1343.
Roehm, Louis, Chicago, Ill. Hanger. No. 974,524; Nov. 1; Sp. p. 1033; Gaz. vol. 160; p. 154.
Roehrich, Frank N., Jersey City, N. J., assignor to G. P. Carroll, Bridgeport, Conn. Electric valve. No. 959,609; May 31; Sp. p. 6887; Gaz. vol. 154; p. 1172.
Roehrig, Bernard F., San Diego, Cal. Kerosene-lamp. No. 954,650; Apr. 12; Sp. p. 2052; Gaz. vol. 153; p. 361.
Röell, Cornelis F. A., Independence, Mo. Water-current power system. No. 954,999; Apr. 12; Sp. p. 2839; Gaz. vol. 153; p. 482.
Roellig, Martin, Wilmersdorf, Berlin, Germany. Marine propulsion by steam-turbines. No. 972,926; Oct. 18; Sp. p. 3127; Gaz. vol. 159; p. 547.
Roelofsen, Jan A., Middlesbrough, England, assignor to The Actiengesellschaft fuer Kohlendestillation, Dusseldorf, Germany. Ammonia-saturator. No. 969,906; Sept. 13; Sp. p. 1647; Gaz. vol. 158; p. 284.
Roelofsen, Jan A., Middlesbrough, England, assignor to The Actiengesellschaft fuer Kohlendestillation, Dusseldorf, Germany. Recovering ammonia from coal-gases and the like. No. 969,907; Sept. 13; Sp. p. 1648; Gaz. vol. 158; p. 284.
Roemer, Henry C., *et al.* (See Firth, Franklin E., assignor.)
Roemer, Jacob, *et al.* (See Schmidt, Leonard F., assignor.)
Roenitz, Louis T. (See Shackleton, Alfred, assignor.)
Roentgen Manufacturing Company. (See Snook, Homer C., assignor.)
Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., New York, N. Y. Hypodermic syringe and cartridge therefor. No. 978,488; Dec. 13; Sp. p. 2317; Gaz. vol. 161; p. 399.
Roesen, Oscar, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Printing-machine. No. 952,687; Mar. 22; Sp. p. 4544; Gaz. vol. 152; p. 825.
Roesen, Oscar, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Printing-machine. No. 958,771; May 24; Sp. p. 5111; Gaz. vol. 154; p. 863.
Roesner, Siegmund, Chicago, Ill. Flash-light attachment for cameras. No. 961,021; June 7; Sp. p. 1572; Gaz. vol. 155; p. 263.
Roesner, Siegmund, Chicago, Ill. Automatic shutter-controlling mechanism for cameras. No. 964,318; July 12; Sp. p. 2795; Gaz. vol. 156; p. 462.
Roesner, Siegmund, Chicago, Ill. Shutter-operating apparatus for photographic lenses. No. 969,194; Sept. 6; Sp. p. 110; Gaz. vol. 158; p. 18.
Roesner, Siegmund, Chicago, Ill. Shutter-operating device for photographic lenses. No. 976,217; Nov. 22; Sp. p. 4691; Gaz. vol. 160; p. 807.
Roessel, Carl A. (See Ippers, John W., assignor.)
Roessle, August F., assignor to American Sales Book Company, Elmira, N. Y. Sheet-jogging machine. No. 954,136; Apr. 5; Sp. p. 905; Gaz. vol. 153; p. 157.
Roessler & Hasslacher Chemical Co., The. (See Leibknecht, Otto, assignor.)
Roessler & Hasslacher Chemical Company, The. (See Foersterling and Philipp, assignors.)
Roessler and Hasslacher Chemical Company. (See McNitt, Robert J., assignor.)
Roett, John D., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway-signal. No. 964,814; July 19; Sp. p. 3974; Gaz. vol. 156; p. 661.
Roever, Julius, New York, N. Y. Record-holder. No. 959,610; May 31; Sp. p. 6890; Gaz. vol. 154; p. 1172.
Rogers, Arthur R., Jonesport, Me. Separator. No. 953,398; Mar. 29; Sp. p. 6077; Gaz. vol. 152; p. 1092.
Rogers, Benjamin F., Fairmont, W. Va. Safety attachment for cars. No. 963,396; July 5; Sp. p. 874; Gaz. vol. 156; p. 129.
Rogers, Charles E. (See Shafer, Frank B., assignor.)
Rogers, Charles E., Detroit, Mich. Tank. No. 947,130; Jan. 18; Sp. p. 4687; Gaz. vol. 150; p. 774.
Rogers, Charles S., Washington, D. C. Undergarment. No. 964,697; July 19; Sp. p. 3740; Gaz. vol. 156; p. 621.
Rogers, Charles T., and F. E. Lee, Cardington, Ohio. Fertilizer-discharging attachment for corn-planters. No. 958,772; May 24; Sp. p. 5115; Gaz. vol. 154; p. 864.
Rogers, Christopher L., Cleveland, Ohio. Buttonhole-cutter. No. 976,300; Nov. 22; Sp. p. 4919; Gaz. vol. 160; p. 838.
Rogers, Clarence T., New York, N. Y. Door-holder. No. 977,225; Nov. 29; Sp. p. 6953; Gaz. vol. 160; p. 1182.

Rogers, Columbus K., Salem, Mass. Safety-grip for elevators. No. 972,252; Oct. 11; Sp. p. 1621; Gaz. vol. 159; p. 285.
Rogers, Dexter M., Boston, Mass. Insect-destroying bomb. No. 954,591; Apr. 12; Sp. p. 1910; Gaz. vol. 153; p. 340.
Rogers, Edna B., Anderson, Ind. Combination packing and display case. No. 964,556; July 19; Sp. p. 3342; Gaz. vol. 156; p. 571.
Rogers, Elroy L., Springfield, Mass. Base-ball player's glove or mitt. No. 970,754; Sept. 20; Sp. p. 3468; Gaz. vol. 158; p. 594.
Rogers, Francis H., East Cragdon, England. Recording device for use with taximeters. No. 953,975; Apr. 5; Sp. p. 572; Gaz. vol. 153; p. 103.
Rogers, Frank, Oakland, Cal. Combination furniture. No. 970,395; Sept. 13; Sp. p. 2656; Gaz. vol. 158; p. 449.
Rogers, Frank R. (See Vallone and Rogers.)
Rogers, Frank R., and C. Vallone, assignors to Barcalo Manufacturing Company, Buffalo, N. Y. Miter-joint for tubes. No. 958,316; May 17; Sp. p. 4194; Gaz. vol. 154; p. 684.
Rogers, Frederick W., assignor to Malleable Iron Range Company, Beaver Dam, Wis. Stove-top. No. 965,334; July 26; Sp. p. 5048; Gaz. vol. 156; p. 868.
Rogers, George B., Bartlesville, Okla. Rod-elevator. No. 953,976; Apr. 5; Sp. p. 575; Gaz. vol. 153; p. 104.
Rogers, Henry C., Talladega, Ala. Mail-box support. No. 979,565; Dec. 27; Sp. p. 4644; Gaz. vol. 161; p. 816.
Rogers, Henry S., Mount Jewett, Pa. Railway-tie. No. 952,361; Mar. 15; Sp. p. 3829; Gaz. vol. 152; p. 684.
Rogers, James. (See Ballam, De Lacy E., assignor.)
Rogers, James E., assignor to F. H. Lee, Danbury, Conn. Automatic telephone. No. 954,701; Apr. 12; Sp. p. 2156; Gaz. vol. 153; p. 377.
Rogers, James H., Hyattsville, Md. Method and apparatus for producing high-frequency oscillating currents. No. 958,829; May 24; Sp. p. 5254; Gaz. vol. 154; p. 886.
Rogers, James P., *et al.* (See Long, John R., assignor.)
Rogers, Jason. (See Hunt, Charles, assignor.)
Rogers, Jesse, Provincetown, Mass. Saw-set. No. 971,079; Sept. 27; Sp. p. 4143; Gaz. vol. 158; p. 731.
Rogers, John, Platteville, Wis. Manufacturing concrete articles. No. 945,607; Jan. 4; Sp. p. 1283; Gaz. vol. 150; p. 200.
Rogers, John, Bridgeport, Conn. Automatic air-compressor. No. 955,437; Apr. 19; Sp. p. 3755; Gaz. vol. 153; p. 660.
Rogers, John, deceased; J. Goldsword, administrator, assignor to Cleveland-Akron Bag Company, Cleveland, Ohio. Paper-bag machine. No. 945,731; Jan. 4; Sp. p. 1576; Gaz. vol. 150; p. 242.
Rogers, John B., York, Me. Trachael cannula or tube. No. 953,922; Apr. 5; Sp. p. 474; Gaz. vol. 153; p. 86.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 945,608; Jan. 4; Sp. p. 1284; Gaz. vol. 150; p. 200.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 945,609; Jan. 4; Sp. p. 1287; Gaz. vol. 150; p. 201.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Matrix for line-casting machines. No. 951,968; Mar. 15; Sp. p. 3071; Gaz. vol. 152; p. 554.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Keyboard mechanism. No. 952,584; Mar. 22; Sp. p. 4311; Gaz. vol. 152; p. 789.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 955,695; Apr. 19; Sp. p. 4334; Gaz. vol. 153; p. 749.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 957,802; May 10; Sp. p. 2763; Gaz. vol. 154; p. 473.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 958,317; May 17; Sp. p. 4196; Gaz. vol. 154; p. 685.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 961,798; June 21; Sp. p. 3212; Gaz. vol. 155; p. 577.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 961,799; June 21; Sp. p. 3215; Gaz. vol. 155; p. 577.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Ejecting device for line-casting machines, &c. No. 967,976; Aug. 23; Sp. p. 4530; Gaz. vol. 157; p. 796.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Keyboard mechanism for linotype-machines, &c. No. 973,566; Oct. 25; Sp. p. 4516; Gaz. vol. 159; p. 789.
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 953,764; Apr. 5; Sp. p. 166; Gaz. vol. 153; p. 31.
Rogers, Josiah B., Gainsborough, Saskatchewan, Canada. Automatic steering device for traction-engines. No. 950,604; Mar. 1; Sp. p. 295; Gaz. vol. 152; p. 49.
Rogers, Judson F., Harrisonville, Mo. Apparatus for manufacturing ice. No. 954,467; Apr. 12; Sp. p. 1640; Gaz. vol. 153; p. 298.
Rogers, Mary J., Chicago, Ill. Medical implement. No. 949,382; Feb. 15; Sp. p. 3383; Gaz. vol. 151; p. 590.
Rogers, Melville F. (See Dorr and Rogers.)
Rogers, Nathaniel J., Tuscaloosa, Ala. Nut-lock. No. 960,405; June 7; Sp. p. 341; Gaz. vol. 155; p. 57.
Rogers, Rutherford H., Youngstown, Ohio. Blast-furnace-charging apparatus. No. 949,403; Feb. 15; Sp. p. 3425; Gaz. vol. 151; p. 598.
Rogers-Shear Company, The. (See King, Dwight D., assignor.)
Rogers-Shear Company. (See Shear, Joseph M., assignor.)
Rogers, Thomas J. (See McLauchlin and Rogers.)
Rogers, Thomas W., Lamont, Iowa. Poultry-marking punch. No. 961,800; June 21; Sp. p. 3219; Gaz. vol. 155; p. 578.
Rogers Verybest Manufacturing Company. (See Bloch, Pauline S., assignor.)
Rogers, Wilbert, Brookville, Ind. Egg-tester. No. 970,115; Sept. 13; Sp. p. 2085; Gaz. vol. 158; p. 354.
Rogers, William A., assignor to C. A. Hammel, Los Angeles, Cal. Oil-burning steam-boiler. No. 973,138; Oct. 18; Sp. p. 3588; Gaz. vol. 159; p. 619.
Rogers, William G., St. Thomas, Ontario, Canada. Earth-auger. No. 975,163; Nov. 8; Sp. p. 2463; Gaz. vol. 160; p. 399.
Rogers, William R., *et al.* (See Long, John R., assignor.)
Rogerson, Frank, Streatham, assignor to Ozonair Limited, London, England. Brewing beer and other liquors. No. 976,602; Nov. 22; Sp. p. 5571; Gaz. vol. 160; p. 942.
Rogge, John H., Smishek, N. D. Breaking-plow. No. 959,390; May 24; Sp. p. 6412; Gaz. vol. 154; p. 1072.
Roggenbuck, Theodore, San Francisco, Cal. Propeller. No. 971,409; Sept. 27; Sp. p. 4789; Gaz. vol. 158; p. 838.
Rogginger, John. (See Pope and Rogginger.)
Rogginger, John, Waupun, Wis., assignor to Paramount Knitting Company, Chicago, Ill. Feeding device for knitting-machines. No. 966,707; Aug. 9; Sp. p. 1848; Gaz. vol. 157; p. 316.
Rögner, Philipp, Nuremberg, Germany. Compasses. No. 954,885; Apr. 12; Sp. p. 2614; Gaz. vol. 153; p. 444.
Rohan, William J., Racine, Wis. Furnace-door opener. No. 967,565; Aug. 16; Sp. p. 3689; Gaz. vol. 157; p. 635.
Rohlfing, John M., assignor of one-half to R. E. Frame, St. Louis, Mo. Journal-box brass. No. 962,166; June 21; Sp. p. 4051; Gaz. vol. 155; p. 703.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Bolster. No. 965,228; July 26; Sp. p. 4800; Gaz. vol. 156; p. 830.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Bolster. No. 965,943; Aug. 2; Sp. p. 197; Gaz. vol. 157; p. 34.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Bolster. No. 965,944; Aug. 2; Sp. p. 198; Gaz. vol. 157; p. 34.
Rohmer, Gabriel E., Woodside, N. Y. Lead-packed anchor-bolt. No. 977,402; Nov. 29; Sp. p. 7347; Gaz. vol. 160; p. 1242.
Rohn, Samuel W. (See Sheldon, Rufus N., assignor.)
Rohr, Mortiz von, assignor to Firm of C. Zeiss, Jena, Germany. Spectacle-glass. No. 949,501; Feb. 15; Sp. p. 3606; Gaz. vol. 151; p. 628.
Rohr, Moritz von, assignor to Firm of C. Zeiss, Jena, Germany. Galilean-telescope lens system. No. 962,920; June 28; Sp. p. 5634; Gaz. vol. 155; p. 986.
Rohr, Moritz von, assignor to The Firm of C. Zeiss, Jena, Germany. Bifocal spectacle-glass. No. 968,081; Aug. 23; Sp. p. 4774; Gaz. vol. 157; p. 830.
Rohr, Moritz von, assignor to The Firm of C. Zeiss, Jena, Germany. Achromatic spectacle-glass. No. 968,693; Aug. 30; Sp. p. 6127; Gaz. vol. 157; p. 1069.
Rohr, Richard, assignor of one-half to E. J. Germain, Belleville, Ill. Potato-digger. No. 971,643; Oct. 4; Sp. p. 279; Gaz. vol. 159; p. 50.
Rohrbach, Hamilton, assignor to A. B. Farquhar Company, Ltd., York, Pa. Potato-digger. No. 947,742; Jan. 25; Sp. p. 6054; Gaz. vol. 150; p. 1009.
Rohrbacher, Charles A., assignor of one-half to A. F. Scherfenberg, Bellingham, Wash. Automatic musical instrument. No. 958,318; May 17; Sp. p. 4198; Gaz. vol. 154; p. 685.
Rohrbacher, Edward J., Blaine, Wash. Fluid-pressure regulator. No. 951,513; Mar. 8; Sp. p. 2138; Gaz. vol. 152; p. 371.
Röhrenkesselfabrik Mödling vormals Dürr, Gehre & Co., Aktiengesellschaft. (See Mahlke, Carl, assignor.)
Rohrer, Daniel. (See Baab, Jacob A., assignor.)
Röhss & Carlander. (See Leon, Karl O., assignor.)
Rojas, Floricel A. (See Fiallo and Rojas.)
Rojas, Floricel A., Providence, R. I., assignor to Bailey-Filson Company, New York, N. Y. Ornamental attachment for jewelry. No. 966,125; Aug. 2; Sp. p. 590; Gaz. vol. 157; p. 97.
Rokleder, Bedo P., Au Gres, Mich. Animal-trap. No. 977,550; Dec. 6; Sp. p. 310; Gaz. vol. 161; p. 46.
Rokosz, Stanley, Plains, Pa. Curtain-stretcher. No. 979,205; Dec. 20; Sp. p. 3885; Gaz. vol. 161; p. 672.
Roland, Agnes, assignor of one-half to N. M. Rivers, Dorchester, Mass. Shoulder-brace. No. 945,139; Jan. 4; Sp. p. 264; Gaz. vol. 150; p. 46.
Roland, John A., and H. M. Westerberg, Sioux City, Iowa. Shoe-protector for shovels. No. 952,140; Mar. 15; Sp. p. 3396; Gaz. vol. 152; p. 611.
Roland, Luther R. (See Brunst and Roland.)

Alphabetical list of patentees—Continued.

Rolfe, Charles A., Adrian, Mich., assignor, by mesne assignments, to Rolfe Electric Co., Rochester, N. Y. Electrical-circuit protector. No. 951,259; Mar. 8; Sp. p. 1605; Gaz. vol. 152; p. 287.
Rolfe, Eben B., Spokane, Wash. Horse-hitching device. No. 957,380; May 10; Sp. p. 1904; Gaz. vol. 154; p. 331.
Rolfe Electric Co. (See Rolfe, Charles A., assignor.)
Rolfes, George H., assignor to Handlan-Buck Manufacturturing Company, St. Louis, Mo. Railway-lantern. No. 958,319; May 17; Sp. p. 4203; Gaz. vol. 154; p. 686.
Roll, Lewis S. (See Pettit and Roll.)
Rollason, Arthur. (See Ely and Rollason.)
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Electrical measuring instrument. No. 958,320; May 17; Sp. p. 4205; Gaz. vol. 154; p. 687.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rolley, Charles D., Kirkersville, Ohio. Automatic switch. No. 950,826; Mar. 1; Sp. p. 786; Gaz. vol. 152; p. 125.
Rollin, Charles, assignor to himself and Hedworth Barium Company Limited, Newcastle-upon-Tyne, England. Making barium oxid. No. 974,921; Nov. 8; Sp. p. 1910; Gaz. vol. 160; p. 316.
Rollin, Charles, assignor to himself and Hedworth Barium Company Limited, Newcastle-upon-Tyne, England. Making anhydrous barium hydroxid. No. 974,993; Nov. 8; Sp. p. 2092; Gaz. vol. 160; p. 341.
Rollins, Frank O., assignor of one-half to E. S. Hodgdon, Lakeport, and one-half to B. J. Smith, Laconia, N. H. Cooking utensil. No. 974,828; Nov. 8; Sp. p. 1689; Gaz. vol. 160; p. 283.
Rollins, George D., Philadelphia, Pa. Metallic packing for piston-rods and the like. No. 979,206; Dec. 20; Sp. p. 3888; Gaz. vol. 161; p. 672.
Rollins, George E., East Bridgewater, Mass. Innersole. No. 955,104; Apr. 12; Sp. p. 3032; Gaz. vol. 153; p. 514.
Rollins, Jarrot L., Colfax, Cal. Thread-coating machine. No. 962,260; June 21; Sp. p. 4241; Gaz. vol. 155; p. 734.
Rollins, Jarrot L., Colfax, Cal. Jar-sealing device. No. 973,214; Oct. 18; Sp. p. 3780; Gaz. vol. 159; p. 646.
Rollins, John E., Chicago, Ill. System of conserving hot water. No. 977,841; Dec. 6; Sp. p. 913; Gaz. vol. 161; p. 144.
Rollman, George. (See Schultz, Frank A., assignor.)
Roloff, William, Fond du Lac, Wis. Animal-trap. No. 979,339; Dec. 20; Sp. p. 4160; Gaz. vol. 161; p. 717.
Rolph, Henry E., St. Paul, Minn. Wagon-brake. No. 963,943; July 12; Sp. p. 2024; Gaz. vol. 156; p. 333.
Rolston, John, assignor to E. F. Bousfield, Minneapolis, Minn. Lock-forming device for wire hoops. No. 954,886; Apr. 12; Sp. p. 2616; Gaz. vol. 153; p. 444.
Roman, Benjamin, New York, N. Y. Drafting implement. No. 965,945; Aug. 2; Sp. p. 199; Gaz. vol. 157; p. 35.
Roman, Stephen, New York, N. Y. Head-forming device. No. 962,858; June 28; Sp. p. 5517; Gaz. vol. 155; p. 965.
Romano, Clementino, Southbridge, Mass. Hunting-knife. No. 947,980; Feb. 1; Sp. p. 422; Gaz. vol. 151; p. 67.
Romanowicz, Marian, Vienna, Austria-Hungary. Packing for photographic plates or flat films. No. 951,027; Mar. 1; Sp. p. 1154; Gaz. vol. 152; p. 188.
Rombaut, Louis, Philadelphia, Pa. Awning. No. 979,566; Dec. 27; Sp. p. 4645; Gaz. vol. 161; p. 816.
Rome Metallic Bedstead Company. (See Merritt, Mortimer G., assignor.)
Romeiser, Wilhelm. (See Rennen and Romeiser.)
Romero, John B., Carmarillo, Cal. Measuring-funnel. No. 954,346; Apr. 5; Sp. p. 1388; Gaz. vol. 153; p 230.
Romig, Orange G. (See Gangawere and Romig.)
Romines, Leroy, Martinsville, Ill. Self-locking lever. No. 980,008; Dec. 27; Sp. p. 5591; Gaz. vol. 161; p. 966.
Romm, Charles, assignor of one-half to J. Klein, Pittsburg, Pa. Button-setting machine. No. 954,821; Apr. 12; Sp. p. 2465; Gaz. vol. 153; p. 421.
Rommer, Isaac A., Newark, N. J. Adjustable and quick-acting clamp. No. 972,253; Oct. 11; Sp. p. 1624; Gaz. vol. 159; p. 285.
Ronan, James J., Jersey City, N. J. Window-chair. No. 967,676; Aug. 16; Sp. p. 3907; Gaz. vol. 157; p. 670.
Ronan, John T., Buffalo, N. Y. Safety appliance for presses and other machines. No. 956,422; Apr. 26; Sp. p. 5918; Gaz. vol. 153; p. 1030.
Ronceray, Eugene, assignor to Societe Anonyme des Etablissements Ph. Bonvillian & E. Ronceray, Paris, France. Molding-machine. No. 976,833; Nov. 22; Sp. p. 6030; Gaz. vol. 160; p. 1019.
Ronchetti, Joseph A., Woonsocket, R. I., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 949,808; Feb. 22; Sp. p. 4242; Gaz. vol. 151; p. 765.
Roney, Charles, Hallstead, Pa. Stovepipe-lock. No. 976,603; Nov. 22; Sp. p. 5572; Gaz. vol. 160; p. 942.
Roney, Thomas F., Providence, R. I., assignor to Eclipse Holding Company. Holder for bobbins or spools. No. 955,208; Apr. 19; Sp. p. 3266; Gaz. vol. 153; p. 585.
Ronneberg, Nathal, Chicago, Ill. Excavating-machine. No. 967,440; Aug. 16; Sp. p. 3429; Gaz. vol. 157; p. 591.
Ronus, Max. (See Herzberg and Ronus.)
Rooch, Edward, Norwood, assignor to The Interstate Sanitation Company, Cincinnati, Ohio. Disinfecting and deodorizing apparatus. No. 960,406; June 7; Sp. p. 343; Gaz. vol. 155; p. 57.
Rood, Lloyd V., Marietta, Ohio. Device for cleaning filters. No. 950,118; Feb. 22; Sp. p. 4970; Gaz. vol. 151; p. 874.
Rood, Lloyd V., Marietta, Ohio. Mail-box. No. 959,885; May 31; Sp. p. 7483; Gaz. vol. 154; p. 1264.
Roof, Robert M., assignor of one-third to F. E. Hill, Muncie, Ind. Internal-combustion engine. No. 956,423; Apr. 26; Sp. p. 5920; Gaz. vol. 153; p. 1030.
Rooney, John J., New York, N. Y. Socket for incandescent electric lamps. No. 951,455; Mar. 8; Sp. p. 2028; Gaz. vol. 152; p. 351.
Roop, Amos L., Van Wert, Ohio. Fence-post. No. 949,090; Feb. 15; Sp. p. 2758; Gaz. vol. 151; p. 490.
Roop, Amos L., Van Wert, Ohio. Mold or form for fence-posts. No. 949,091; Feb. 15; Sp. p. 2759; Gaz. vol. 151; p. 491.
Roop, William D., Marion, Ind. Gripping device. No. 971,080; Sept. 27; Sp. p. 4145; Gaz. vol. 158; p. 731.
Roop, William M. (See Willits, Frederick E., assignor.)
Roos, Alphonse, Los Angeles, Cal. Mold. No. 978,938; Dec. 20; Sp. p. 3260; Gaz. vol. 161; p. 577.
Roos, Arnold, assignor to Aktiengesellschaft Arnold B. Heine & Co., New York, N. Y. Fabric-cutting machine. No. 954,210; Apr. 5; Sp. p. 1109; Gaz. vol. 153; p. 184.
Roos, Hermañ, Berlin, Germany, assignor to General Electric Company. Means for cooling dynamo-electric machines. No. 957,102; May 3; Sp. p. 1291; Gaz. vol. 154; p. 205.
Roos, Hermañ, Berlin, Germany, assignor to General Electric Company. Means for cooling dynamo-electric machines. No. 957,103; May 3; Sp. p. 1293; Gaz. vol. 154; p. 205.
Roose, Gustave E., assignor of one-half to W. J. McNamara, Wetaskiwin, Alberta, Canada. Machine for cutting brush. No. 957,101; May 3; Sp. p. 1288; Gaz. vol. 154; p. 205.
Roosen, Hugo. (See Busch, Carl W. J., assignor.)
Root, Clarence R. (See D'Agostino, Pasquale, assignor.)
Root, Edward C. (See Watt[illegible]s and Minor, assignors.)
Root, Henry, San Francisco, Cal. Skeleton structure for concrete walls. No. 956,424; Apr. 26; Sp. p. 5923; Gaz. vol. 153; p. 1030.
Root, Percy H., Plymouth, Ohio. Lawn-mower grinder. No. 950,560; Mar. 1; Sp. p. 210; Gaz. vol. 152; p. 34.
Root, William S., Alliance, Ohio. Toy target. No. 966,056; Aug. 2; Sp. p. 465; Gaz. vol. 157; p. 74.
Roots, James D., West Kensington, London, England. Hinge for doors, gates, and the like. No. 963,069; July 5; Sp. p. 83; Gaz. vol. 156; p. 16.
Rooÿ, Antonius L. de, Haarlem, Netherlands. Transferring printed and other pictures to stones and the like. No. 960,707; June 7; Sp. p. 953; Gaz. vol. 155; p. 158.
Roper, Charles F., Hopedale, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Automatic weft-replenishing loom. No. 964,557; July 19; Sp. p. 3344; Gaz. vol. 156; p. 572.
Roper, Joseph W., East Orange, N. J. Ash-sifter. No. 976,099; Nov. 15; Sp. p. 4399; Gaz. vol. 160; p. 746.
Roper, O. B. (See Beaird, Daniel H., assignor.)
"Rops" Metallwaaren-Aktiengesellschaft. (See Szakáll and Kardos, assignors.)
Rorabeck, Claude. (See Cash and Rorabeck.)
Rork, Clare M., assignor to J. W. Shelton, Dallas, Tex. Hydrocarbon-burner. No. 946,581; Jan. 18; Sp. p. 3511; Gaz. vol. 150; p. 591.
Rosalt, Hugues, Paris, France. Treatment of ores for the extraction of metals therefrom. No. 948,827; Feb. 8; Sp. p. 2227; Gaz. vol. 151; p. 377.
Rosamond, Tillman A., Hot Springs, Ark. Cotton-chopper. No. 966,057; Aug. 2; Sp. p. 467; Gaz. vol. 157; p. 75.
Rosback, Frederick P., Benton Harbor, Mich. Perforating-machine. No. 959,966; May 31; Sp. p. 7668; Gaz. vol. 154; p. 1294.
Roschen, Diedrich, Lake City, Minn. Animal-releasing device. No. 963,182; July 5; Sp. p. 395; Gaz. vol. 156; p. 56.
Röschmann, Max, Flensburg, Germany. Horseshoe with exchangeable calk. No. 970,954; Sept. 20; Sp. p. 3870; Gaz. vol. 158; p. 661.
Rose, Alonzo N., New York, N. Y. Water-cooler. No. 962,529; June 28; Sp. p. 4837; Gaz. vol. 155; p. 851.
Rose, Byron H., New York, assignor to Gasau Spring & Bed Co., Brooklyn, N. Y. Mattress-holder. No. 968,886; Aug. 30; Sp. p. 6507; Gaz. vol. 157; p. 1133.
Rose, Charley E., Canistota, S. D. Door-fitting vise. No. 959,264; May 24; Sp. p. 6165; Gaz. vol. 154; p. 1031.
Rose, Cleaveland L. (See Carmack, James H., assignor.)
Rose, Cyrus C., Blair township, Washington county, Nebr. Harness attachment. No. 971,644; Oct. 4; Sp. p. 281; Gaz. vol. 159; p. 50.
Rose, Daniel O., New York, N. Y. Burner. No. 954,702; Apr. 12; Sp. p. 2159; Gaz. vol. 153; p. 377.
Rose, Earl W., Cuba, N. Y. Milk-pail holder. No. 976,498; Nov. 22; Sp. p. 5346; Gaz. vol. 160; p. 907.
Rose, Elmer C., Defiance, Ohio. Partition-strip for bottle-crates. No. 963,250; July 5; Sp. p. 580; Gaz. vol. 156; p. 80.
Rose, Elmer C., Philadelphia, Pa. Folding crate. No. 964,121; July 12; Sp. p. 2410; Gaz. vol. 156; p. 396.

Alphabetical list of patentees—Continued.

Rose, Elmer D., Marshburg, Pa. Railway-switch-operating mechanism. No. 967,059; Aug. 9; Sp. p. 2643; Gaz. vol. 157; p. 434.
Rose, Frank S., deceased, Newark, N. J.; G. F. Rose, administrator, assignor to Standard Typewriter Company. Escapement mechanism for type-writers. No. 948,553; Feb. 8; Sp. p. 1633; Gaz. vol. 151; p. 286.
Rose, Fred. (See Elderkin and Rose.)
Rose, George F., administrator. (See Rose, Frank S.)
Rose, Henry. (See Rose, William and H.)
Rose, Henry, Gainsborough, England. Apparatus for feeding articles to wrapping mechanisms. No. 972,649; Oct. 11; Sp. p. 2486; Gaz. vol. 159; p. 423.
Rose, Herbert B., Buffalo, N. Y. Card-rack. No. 947,190; Jan. 18; Sp. p. 4810; Gaz. vol. 150; p. 793.
Rose, Isaac, Newark, N. J. Combined knife and bottle-opener. No. 964,558; July 19; Sp. p. 3353; Gaz. vol. 156; p. 572.
Rose, James, Lancaster, Pa. Umbrella and parasol. No. 978,213; Dec. 13; Sp. p. 1727; Gaz. vol. 161; p. 303.
Rose, James A., Hastings, Nebr. Washer and gasket cutter. No. 958,941; May 24; Sp. p. 5502; Gaz. vol. 154; p. 923.
Rose, James B., Victor, Colo. Brush. No. 974,922; Nov. 8; Sp. p. 1912; Gaz. vol. 160; p. 316.
Rose, John. (See Dixon, Wildey R., assignor.)
Rose, John. (See Gibbs, Isaac A., assignor.)
Rose, John. (See Henretta, Thomas J., assignor.)
Rose, John G., and W. L. Rhoads, assignors of one-third to Q. Rhoads, Elizabeth, N. J. Curtain-support. No. 968,807; Aug. 30; Sp. p. 6349; Gaz. vol. 157; p. 1106.
Rose, Richard C., Osceola, Ark. Watchman's clock. No. 971,309; Sept. 27; Sp. p. 4599; Gaz. vol. 158; p. 805.
Rose, Richard C., Osceola, Ark. Watchman's clock. No. 971,310; Sept. 27; Sp. p. 4602; Gaz. vol. 158; p. 805.
Rose, Robert A., and G. C. Holbrook, Santa Rosa, Cal. Electrical piano. No. 962,261; June 21; Sp. p. 4245; Gaz. vol. 155; p. 734.
Rose, Sydney A. M., Richmond, near Melbourne, Victoria, Australia. Recording-target. No. 966,361; Aug. 2; Sp. p. 1071; Gaz. vol. 157; p. 173.
Rose, W. Louis, *et al.* (See Dinger, Paul, assignor.) (Reissue.)
Rose, William, Gainsborough, England. Cam and lever. No. 978,783; Dec. 13; Sp. p. 2948; Gaz. vol. 161; p. 498.
Rose, William A. (See Sterner and Rose.)
Rose, William and H., Gainsborough, England. Apparatus for applying labels or wrappers to blocks, packages, or tins, or other containers or material. No. 970,353; Sept. 13; Sp. p. 2573; Gaz vol. 158; p. 434.
Rose, William and H., Gainsborough, England. Feeding mechanism for label or wrapping machines. No. 972,647; Oct. 11; Sp. p. 2484; Gaz. vol. 159; p. 423.
Rose, William and H., Gainsborough, England. Mechanism for applying labels or wrappers. No. 972,648; Oct. 11; Sp. p. 2485; Gaz. vol. 159; p. 423.
Rose, William H., New York, N. Y., assignor to Interstate Chemical Company, Jersey City, N. J. Disinfecting apparatus. No. 964,559; July 19; Sp. p. 3354; Gaz. vol. 156; p. 573.
Rosemeyer, Josef. (See Hanisch and Rosemeyer.)
Rosemeyer, Julius, Berlin, Germany. Spring arrangement for vehicles. No. 958,544; May 17; Sp. p. 4644; Gaz. vol. 154; p. 763.
Rosen, Bernard, Cincinnati, Ohio. Shirt. No. 959,611; May 31; Sp. p. 6892; Gaz. vol. 154; p. 1173.
Rosen, Lazar, Union Hill, N. J. Combination-padlock. No. 948,251; Feb 1; Sp. p. 963; Gaz. vol. 151; p. 158.
Rosenbeck, Andrew K., New Haven, Conn. Tool-holder and tool. No. 969,983; Sept. 13; Sp. p. 1814; Gaz. vol. 158; p. 309.
Rosenberg, Adolph. (See Clark and Rosenberg.)
Rosenberg, Adolph, Buffalo, N. Y. Sash-lock. No. 960,585; June 7; Sp. p. 707; Gaz. vol. 155; p. 117.
Rosenberg, Adolph, and E. E. Clark, assignors to Climax Lock and Ventilator Co., Buffalo, N. Y. Mail-box. No. 961,897; June 21; Sp. p. 3444; Gaz. vol. 155; p. 609.
Rosenberg, Augustus, London, England. Electroplating. No. 970,755; Sept. 20; Sp. p. 3470; Gaz. vol. 158; p. 594.
Rosenberg, Augustus, London, England. Process of and means for depositing metals. No. 970,852; Sept. 20; Sp. p. 3680; Gaz. vol. 158; p. 629.
Rosenberg, Bernard. (See Berry, Charles M., assignor.)
Rosenberg, Emanuel. (See Rosenberg, Heinrich and E.)
Rosenberg, Heinrich, Vienna, Austria-Hungary, and E. Rosenberg, Berlin, Germany. Winding for electric machinery. No. 954,468; Apr. 12; Sp. p. 1642; Gaz. vol. 153; p. 298.
Rosenberg, Joseph, New York, N. Y. Thread-holder. No. 947,649; Jan. 25; Sp. p. 5900; Gaz. vol. 150; p. 979.
Rosenberger, Andrew F., Chicago, Ill. Lightning-protector. No. 970,556; Sept. 20; Sp. p. 3015; Gaz. vol. 158; p. 525.
Rosenberger, Arthur, Berlin, Germany. Apparatus for producing kefir powder. No. 957,104; May 3; Sp. p. 1294; Gaz. vol. 154; p. 206.
Rosenblatt, Girard B. (See Kintner and Rosenblatt.)
Rosenbloom, Max, and M. Magnes, Montreal, Quebec, Canada. Sewing-machine belt-guard. No. 965,335; July 26; Sp. p. 5049; Gaz. vol. 156; p. 868.
Rosenbluth, Edwin M., Philadelphia, Pa. Lamp. No. 965,749; July 26; Sp. p. 5934; Gaz. vol. 156; p. 1010.
Rosendahl, Reynold W., Philadelphia, Pa. Safety-razor-blade-sharpening device. No. 967,977; Aug. 23; Sp. p. 4533; Gaz. vol. 157; p. 796.
Rosendale Spreader Company. (See Siebenhaar, Otto W., assignor.)
Rosenfeld, Edward, Columbus, Ohio. Plow. No. 948,431; Feb. 8; Sp. p. 1372; Gaz. vol. 151; p. 244.
Rosenfeld, Edward, Columbus, Ohio. Truck. No. 960,407; June 7; Sp. p. 345; Gaz. vol. 155; p. 58.
Rosenfeld, Irvin, New York, assignor of one-half to C. G. Wirths, Woodhaven, N. Y. Change-making machine. No. 970,557; Sept. 20; Sp. p. 3017; Gaz. vol 158; p. 525.
Rosenfeld, Rudolph. (See Backer, Charles, assignor.)
Rosenfelt, Samuel D., and H. Helmholtz, Chicago, Ill. Mechanism for operating furnace-doors. No. 966,601; Aug. 9; Sp. p. 1652; Gaz. vol. 157; p. 282.
Rosenfeld, Louis G. (See Zitzerman, Isaac D., assignor.)
Rosenhauer, Charles G., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 978,214; Dec. 13; Sp. p. 1728; Gaz. vol. 161; p. 304.
Rosenheim, Ida S. (See Klein, Charles J., assignor.)
Rosenheim, Ida S. (See Schoenberg, Ralph A., assignor.)
Rosenholz, Alfred, San Francisco, Cal. Street-surface-cutting device. No. 968,422; Aug. 23; Sp. p. 5498; Gaz. vol. 157; p. 948.
Rosenqvist, August. (See Nilson, Nils A., assignor.)
Rosenshine, Morris W., San Francisco, Cal. Vehicle-wheel. No. 958,439; May 17; Sp. p. 4452; Gaz. vol. 154; p. 727.
Rosenstein Brothers. (See Höiland and Halleland, assignors.)
Rosenstock, William. (See Sullivan and Rosenstock.)
Rosenthal, Arthur. (See Rosenthal, Morris G. and A.)
Rosenthal, August, West Allis, Wis. Discharge-spout for corn husking and shredding machines. No. 955,357; Apr. 19; Sp. p. 3589; Gaz. vol. 153; p. 634.
Rosenthal, August, West Allis, Wis. Pneumatic straw stacker and elevator. No. 955,358; Apr. 19; Sp. p. 3593; Gaz. vol. 153; p. 634.
Rosenthal, August, West Allis, Wis. Straw stacker and elevator. No. 957,907; May 17; Sp. p. 2996; Gaz. vol. 154; p. 540.
Rosenthal, August, West Allis, Wis. Straw stacker and elevator. No. 967,243; Aug. 16; Sp. p. 3030; Gaz. vol. 157; p. 524.
Rosenthal, August, West Allis, Wis. Rope-joint. No. 979,567; Dec. 27; Sp. p. 4647; Gaz vol. 161; p. 816.
Rosenthal, August, assignor to Rosenthal Manufacturing Company, West Allis, Wis. Husking and shredding machine. No. 947,562; Jan. 25; Sp. p. 5712; Gaz. vol. 150; p. 948.
Rosenthal, Herman, Yonkers, N. Y. Display-stand. No. 948,795; Feb. 8; Sp. p. 2155; Gaz. vol. 151; p. 367.
Rosenthal, Herman, Chicago, Ill. Attaching means for buttons. No. 967,978; Aug. 23; Sp. p. 4534; Gaz. vol. 157; p. 796.
Rosenthal, James H., and A. Spyer, London, England, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube steam-generator. No. 959,612; May 31; Sp. p. 6892; Gaz. vol. 154; p. 1173.
Rosenthal Manufacturing Company. (See Rosenthal, August, assignor.)
Rosenthal, Morris G. and A., Grand Rapids, Mich. Sewing-machine. No. 948,345; Feb. 8; Sp. p. 1176; Gaz. vol. 151; p. 216.
Rosenthal, Morris G., Mentor, Ohio, and A. Rosenthal, Grand Rapids, Mich. Sewing-machine. No. 976,399; Nov. 22; Sp. p. 5141; Gaz. vol. 160; p. 872.
Rosenwald, Lucian, Kansas City, Mo., and J. H. R. Anthony, Kansas City, Kans.; said Anthony assignor to said Rosenwald. Antiseptic attachment for telephone-mouthpieces. No. 951,844; Mar. 15; Sp. p. 2814; Gaz. vol. 152; p. 513.
Rosenwasser, Morris, New York, N. Y. Legging. No. 945,420; Jan. 4; Sp. p. 900; Gaz. vol. 150; p. 140.
Rosenwasser, Morris, New York, N. Y. Legging. No. 979,702; Dec. 27; Sp. p. 4924; Gaz. vol. 161; p. 863.
Rosenzweig, Charles, Pittsburg, Pa. Non-explosive oil-can. No. 965,015; July 19; Sp. p. 4372; Gaz. vol. 156; p. 729.
Rosenzweig, Charles, assignor of one-half to J. Sauers, Allegheny, Pa. Car-coupling. No. 947,161; Jan. 18; Sp. p. 4753; Gaz. vol. 150; p. 783.
Roser, Paul, Esslingen, Germany. Producing sodium peroxid compositions for washing and bleaching purposes. No. 965,016; July 19; Sp. p. 4373; Gaz. vol. 156; p. 729.
Rosewarne, Richard E., Covington, Ky., assignor to The Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio. Expansible pulley and speed-gear. No. 949,005; Feb. 15; Sp. p. 2580; Gaz. vol. 151; p. 464.
Rosewarne, Richard E., Covington, Ky., assignor to The Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio. Variable-speed mechanism. No. 977,403; Nov. 29; Sp. p. 7348; Gaz. vol. 160; p. 1243.
Rosier, Henri, La Préalle-Herstal, Belgium. Automatic pistol. No. 970,645; Sept. 20; Sp. p. 3226; Gaz. vol. 158; p. 555.
Rosier, Neil M., Augusta, Ga. Folding hay-rack. No. 967,060; Aug. 9; Sp. p. 2645; Gaz. vol. 157; p. 435.

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Rosquist, George A., New York, N. Y. Amusement device. No. 952,843; Mar. 22; Sp. p. 4884; Gaz. vol. 152; p. 879.
Ross, Alexander. (See Burrows, Joseph, assignor.)
Ross, Alexander. (See Schnelle, Ernest, assignor.)
Ross, Benjamin, assignor to D. S. Ross, East Boston, Mass. Hand-bag. No. 977,902; Dec. 6; Sp. p. 1049; Gaz. vol. 161; p. 166.
Ross, Bernard W., Easton, Md. Ironing-board. No. 955,554; Apr. 19; Sp. p. 4002; Gaz. vol. 153; p. 701.
Ross, Carl. (See Bernat, Ross, and Bernat.)
Ross, Carl, Kansas City, Mo. Mechanical toy. No. 964,560; July 19; Sp. p. 3356; Gaz. vol. 156; p. 573.
Ross, Charles, Balnagown Castle, Scotland. Bullet. No. 949,028; Feb. 15; Sp. p. 2645; Gaz. vol. 151; p. 471.
Ross, Charles E., Columbus, Ohio. Piston-packing. No. 961,373; June 14; Sp. p. 2332; Gaz. vol. 155; p. 412.
Ross, Charles G., New York, N. Y. Kneading and mixing machine. No. 950,243; Feb. 22; Sp. p. 5235; Gaz. vol. 151; p. 918.
Ross, Charles H. A. F. L., Ross-Shire, Scotland. Automatic firearm. No. 958,545; May 17; Sp. p. 4645; Gaz. vol. 154; p. 763.
Ross, Charles H. A. F. L., Quebec, Quebec, Canada. Means for lubricating and disengaging cutting-tools. No. 971,410; Sept. 27; Sp. p. 4790; Gaz. vol. 158; p. 838.
Ross, Charles H. A. F. L., Balnagown Castle, Scotland. Trigger mechanism. No. 975,286; Nov. 8; Sp. p. 2721; Gaz. vol. 160; p. 441.
Ross, Charles H. A. F. L., Balnagown Castle, Scotland. Magazine for firearms. No. 975,287; Nov. 8; Sp. p. 2724; Gaz. vol. 160; p. 441.
Ross, Charles J., Oakland, Cal. Sticky fly-paper. No. 954,887; Apr. 12; Sp. p. 2617; Gaz. vol. 153; p. 445.
Ross, Charles L., Balnagowan Castle, county of Ross, Scotland. Breech-closing mechanism for automatic firearms. No. 954,543; Apr. 12; Sp. p. 1806; Gaz. vol. 153; p. 324.
Ross, David E., Brookston, assignor to Ross Gear and Tool Company, La Fayette, Ind. Machine for cutting internal flutes. No. 961,537; June 14; Sp. p. 2684; Gaz. vol. 155; p. 466.
Ross, Dorothy S. (See Ross, Benjamin, assignor.)
Ross, Ewald, Barmen, Germany. Manufacturing incandescent gas mantles No. 947,283; Jan. 25; Sp. p. 5054; Gaz. vol. 150; p. 854.
Ross, Frederick M., Newport, Ky., assignor to Acme High-Speed Knife and Manufacturing Company, Oakley, Ohio. Cutting head and bit. No. 976,301; Nov. 22; Sp. p. 4920; Gaz vol. 160; p. 838.
Ross Gear and Tool Company. (See Ross, David E., assignor.)
Ross, George M., Grinnell, Iowa. Means for attaching the ends of posts to concrete bases. No. 953,060; Mar. 29; Sp. p. 5322; Gaz. vol. 152; p. 979.
Ross, George W., assignor to Railway Foundry Company, Chicago, Ill. Molding-machine. No. 946,786; Jan. 18; Sp. p. 3968; Gaz. vol. 150; p. 659.
Ross, Harold B., Etiwanda, Cal. Rake-tooth cleaner. No 979,340; Dec. 20; Sp. p. 4161; Gaz. vol. 161; p. 717.
Ross-Heaton Manufacturing Co. (See Heaton, Olive R., assignor.)
Ross, Herold H., assignor to Theo. A. Kochs Company, Chicago, Ill. Hydraulic barber's chair. No. 957,258; May 10; Sp. p. 1643; Gaz. vol. 154; p. 289.
Ross, James A. (See Brown and Ross.)
Ross, Jesse M., and A. Holton, Braddock, Pa. Amusement device. No. 950,348; Feb. 22; Sp. p. 5436; Gaz. vol. 151; p. 953.
Ross, John, Terry, assignor of one-sixth to A. Nyberg and one-sixth to L. Nyberg, Lead, S. D. Mine-car-tallying device. No. 976,696; Nov. 22; Sp. p. 5744; Gaz. vol. 160; p. 973.
Ross, John, and G. Payne, assignors of one-third to A. R. Payne, Orillia, Canada. Wire ladder. No. 950,807; Mar. 1; Sp. p. 747; Gaz. vol. 152; p. 119.
Ross, John A., assignor of one-third to Butterfield Live Stock Company, Ltd., Weiser, and one-third to W. N. McConnel, Caldwell, Idaho. Sheep-hook. No. 953,714; Apr. 5; Sp. p. 61; Gaz. vol. 153; p. 14.
Ross, Jonas W., St. Joseph, Mo. Automatic sanitary garbage-can No. 955,908; Apr. 26; Sp. p. 4816; Gaz. vol. 153; p. 852.
Ross, Mark A., Chicago, Ill. Locomotive-headlight. No. 962,469; June 28; Sp. p. 4711; Gaz. vol. 155; p. 830.
Ross, Paul, Halberstadt, Germany. Apparatus for measuring and registering the oscillations of vibrating bodies, such as marine vessels, airships, railway-vehicles, and the like. No. 957,908; May 17; Sp. p. 3000; Gaz. vol. 154; p. 540.
Ross, Samuel E., Paris, Ill. Clutch. No. 979,703; Dec. 27; Sp. p. 4925; Gaz. vol. 161; p. 863.
Ross, Sidney J., and H. Schofield, assignors of one-third to O. P. Macfarlane, one-third to S. J. Ross, and one-third to H. Schofield, London, England. Steam-generator. No. 978,061; Dec. 6; Sp. p. 1375; Gaz. vol. 161; p. 221.
Ross, William, Montreal, Quebec, Canada. Metal-cutting machine. No. 962,530; June 28; Sp. p. 4842; Gaz. vol. 155; p. 851.
Ross, William G., assignor of one-half to F. Sutherland, Chicago, Ill. Garbage-burner and water-heater. No. 965,229; July 26; Sp. p. 4801; Gaz. vol. 156; p. 830.
Ross, William L., and D. C. Tollinger, deceased, Philadelphia, Pa.; G. L. Tollinger, administratrix. Mixing faucet. No. 949,044; Feb. 15; Sp. p. 2673; Gaz. vol. 151; p. 476.
Ross, William M., Guthrie, Tex. Combined rake and harrow. No. 966,602; Aug. 9; Sp. p. 1654; Gaz. vol. 157; p. 282.
Ross, William S., New York, N. Y. Female urinal. No. 977,903; Dec. 6; Sp. p. 1050; Gaz. vol. 161; p. 166.
Rossbach, Paul. (See Benz and Rossbach.)
Rossetter, James R., assignor to The Wm. J. Oliver Manufacturing Company, Knoxville, Tenn. Plow. No. 949,688; Feb. 15; Sp. p. 3958; Gaz. vol. 151; p. 690.
Rossetter, James R., assignor to The Wm. J. Oliver Manufacturing Company, Knoxville, Tenn. Reversible plow. No. 962,389; June 21; Sp. p. 4502; Gaz. vol. 155; p. 777.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Alloy of zinc and titanium and their production. No. 979,393; Dec. 20; Sp. p. 4262; Gaz. vol. 161; p. 733.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Production of alloys of tin and titanium. No. 979,394; Dec. 20; Sp. p. 4264; Gaz. vol. 161; p. 733.
Rossi, Giacomo, Portici, Italy. Industrial microbiological vegetal retting process by pectic aerobic microbes in a gas-current. No. 977,133; Nov. 29; Sp. p. 6758; Gaz. vol. 160; p. 1150.
Rossman, John B., St. Paul, Minn. Rock-pulverizing machine. No. 971,311; Sept. 27; Sp. p. 4604; Gaz. vol. 158; p. 806.
Rossmeisl, Richard A., Whitingham, Vt. Railway-spike. No. 958,546; May 17; Sp. p. 4652; Gaz. vol. 154; p. 764.
Rostenberg, Jacob, White Plains, N. Y. Veil holder or retainer for bonnets. No. 971,476; Sept. 27; Sp. p. 4908; Gaz. vol. 158; p. 859.
Rostron, James, Manchester, England. Stop-motion device for automatic reshuttling-looms. No. 977,329; Nov. 29; Sp. p. 7149; Gaz. vol. 160; p. 1217.
Rotary Engine and Valve Developing Company. (See Capwell, Vernon L., assignor.)
Rotary Meter Company. (See Brown, Ernest C., assignor.)
Rotary Photographic Company, The. (See Madaler, Ferdinand von, assignor.)
Rotary Ring Spinning Company. (See Brigham, Edward A., assignor.)
Rotary Ring Spinning Company. (See Hall, Bicknell, assignor.)
Rotary Valve Motor Company. (See Nelson, Emil A., assignor.)
Rote, Charles V., assignor to M. P. Holman, Lancaster, Pa. Car-brake. No. 975,893; Nov. 15; Sp. p. 3994; Gaz. vol. 160; p. 674.
Rote, John G., Brookline, Mass. Soap-box. No. 954,211; Apr. 5; Sp. p. 1113; Gaz. vol. 153; p. 185.
Rotermund, John C., Eureka, Cal. Toy gun. No. 945,610; Jan. 4; Sp. p. 1289; Gaz. vol. 150; p. 201.
Roth, Anthony, Jr., New Brunswick, N. J. Shoe-calk attachment. No. 956,177; Apr. 26; Sp. p. 5397; Gaz. vol. 153; p. 947.
Roth, Anthony, Jr., New Brunswick, N. J. Horseshoe. No. 967,441; Aug. 16; Sp. p. 3432; Gaz. vol. 157; p. 592.
Roth, Anton, assignor of two-fifths to S. W. Vandivert, New Brunswick, N. J. Emergency horseshoe attachment. No. 954,469; Apr. 12; Sp. p. 1649; Gaz. vol. 153; p. 299.
Roth, Arnold N., McCall, La. Combined match-safe and cigar-cutter. No. 973,306; Oct. 18; Sp. p. 3956; Gaz. vol. 159; p. 677.
Roth, Carl, Zehlendorf, near Berlin, Germany. Balancing means for turbines. No. 954,212; Apr. 5; Sp. p. 1114; Gaz. vol. 153; p. 185.
Roth, Charles E. (See Stuart, Henry W., assignor.)
Roth, Charles E., trustee. (See Vierengel and Sofge, assignors.)
Roth, Ernst, Niederutzwil, Switzerland. Sliding brush for plan sifters. No. 976,697; Nov. 22; Sp. p. 5745; Gaz. vol. 160; p. 973.
Roth, Eugen, Schöneberg, near Berlin, Germany. Safety appliance for steam-boilers. No. 954,764; Apr. 12; Sp. p. 2324; Gaz. vol. 153; p. 402.
Roth, Eugen, Schöneberg, near Berlin, Germany. Safety-burner. No. 963,251; July 5; Sp. p. 581; Gaz. vol. 156; p. 80.
Roth, Harry L., assignor to Industrial Equipment Company, Philadelphia, Pa. Tag-machine. No. 971,927; Oct. 4; Sp. p. 892; Gaz. vol. 159; p. 154.
Roth, Harry L., assignor to Industrial Equipment Company, Philadelphia, Pa. Tag-stringer machine. No. 971,928; Oct. 4; Sp. p. 903; Gaz. vol. 159; p. 155.
Roth, Henry J., Dover, Minn. Ventilator. No. 974,829; Nov. 8; Sp. p. 1690; Gaz. vol. 160; p. 284.
Roth, Karl, Terre Haute, Ind. Lock-seam for sheet-metal roofing. No. 968,887; Aug. 30; Sp. p. 6508; Gaz. vol. 157; p. 1133.

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Roth, Louis, New York, N. Y. Orthopedic device. No. 954,005; Apr. 5; Sp. p. 638; Gaz. vol. 153; p. 114.

Roth Manufacturing Company. (See Cosper, William P., assignor.) (Reissue.)

Roth, Reuben D., Gettysburg, Pa. Milking-machine. No. 945,812; Jan. 11; Sp. p. 1789; Gaz. vol. 150; p. 300.

Rotha, Harry, Waynesville, N. C. Pulley-block. No. 972,254; Oct. 11; Sp. p. 1627; Gaz. vol. 159; p. 286.

Rothbarth, John C., Buffalo, N. Y. Chimney-cap. No. 973,139; Oct. 18; Sp. p. 3589; Gaz. vol. 159; p. 619.

Rothberg, Aime, Philadelphia, Pa. Apparatus for making leather-covered cushioned seats for chairs. No. 958,011; May 17; Sp. p. 3311; Gaz. vol. 154; p. 577.

Rothchild, Joseph, New York, N. Y. Engine-valve. No. 979,097; Dec. 20; Sp. p. 3627; Gaz. vol. 161; p. 632.

Rothchild, Joseph, Bayonne, N. J., assignor to John Simmons Company, New York, N. Y. Valve. No. 946,877; Jan. 18; Sp. p. 4203; Gaz. vol 150; p. 692.

Rothchild. Joseph, Bayonne, N. J., assignor to The John Simmons Company, New York, N. Y. Valve. No. 949,635; Feb. 15; Sp. p. 3864; Gaz. vol. 151; p. 674.

Rothchild, Joseph, Bayonne, N. J., assignor to John Simmons Company, New York, N. Y. Flush-valve. No. 965,946; Aug. 2; Sp. p. 201; Gaz. vol. 157; p. 35.

Rothe, William F., assignor to Wm. F. Rothe and Company, East St. Louis, Ill. Carbureter. No. 973,882; Oct. 25; Sp. p. 5181; Gaz. vol. 159; p. 900.

Rothera, Samuel. (See Webster and Rothera.)

Rotherham, James A., Revere, Mass. Show-case. No. 978,215; Dec. 13; Sp. p. 1730; Gaz. vol. 161; p. 304.

Rothermel, W. E. (See Matthews, Edgar M., assignor.)

Rothfuchs, August, and C. Eck, Hammond, Ind. Shade-roller bracket. No. 974,436; Nov. 1; Sp. p. 810; Gaz. vol. 160; p. 122.

Röthlisberger, Ulrich, Basel, Switzerland. Benzin apparatus for washing, rinsing, draining, and drying textile materials. No. 975,078; Nov. 8; Sp. p. 2266; Gaz. vol. 160; p. 369.

Rothschild, Max, New York, N. Y. Advertising-machine. No. 956,425; Apr. 26; Sp. p. 5925; Gaz. vol. 153; p. 1031.

Rothstein, Samuel, New York, N. Y. Device for hanging pictures and similar articles. No. 969,195; Sept. 6; Sp. p. 115; Gaz. vol. 158; p. 18.

Rothwell, Ernest, Manchester, assignor to Rothwell's Patents Syndicate, Bury, England. Circuit-controller. No. 961,164; June 14; Sp. p. 1863; Gaz. vol. 155; p. 338.

Rothwell, John E., assignor to Colorado Iron Works Company, Denver, Colo. Tank for settling, filtering, and collecting solids from liquids. No. 976,923; Nov. 29; Sp. p. 6265; Gaz. vol. 160; p. 1076.

Rothwell, John E., and R. P. Akins, assignors to Colorado Irons Works Co., Denver, Colo. Agitating apparatus for the treatment of ores. No. 951,742; Mar. 8; Sp. p. 2590; Gaz. vol. 152; p. 448.

Rothwell, William H. (See Forbes and Rothwell.)

Rothwell's Patents Syndicate. (See Rothwell, Ernest, assignor.)

Rotondo, Peter, New York, N. Y. Pivotal pot-handle. No. 948,187; Feb. 1; Sp. p. 831; Gaz. vol. 151; p. 137.

Rotondo, Peter, New York, N. Y. Kettle. No. 964,815; July 19; Sp. p. 3976; Gaz. vol. 156; p. 661.

Rottenburg, Otto von, Frankfort-on-the-Main, Germany. Fountain-pen attachment. No. 962,053; June 21; Sp. p. 3778; Gaz. vol. 155; p. 663.

Rotter, Max, assignor to Allis-Chalmers Company, Milwaukee, Wis. Packing. No. 978,399; Dec. 13; Sp. p. 2128; Gaz. vol. 161; p. 370.

Rottger, Henry J. P., New York, N. Y. Heel for shoes. No. 960,708; June 7; Sp. p. 954; Gaz. vol. 155; p. 158.

Rotzel, Albert, and M. Imbt, Stroudsburg, Pa. Combination window-shade holder and swinging curtain-pole. No. 974,710; Nov. 1; Sp. p. 1439; Gaz. vol. 160; p. 222.

Rotzell, Frank W., Kansas City, Mo. Umbrella. No. 974,437; Nov. 1; Sp. p. 811; Gaz. vol. 160; p. 122.

Rotzien, William F., Daytona, Fla. Bleacher. No. 965,947; Aug. 2; Sp. p. 204; Gaz. vol. 157; p. 35.

Roughen, Patrick, Fond du Lac, Wis. Street-gage. No. 953,490; Mar. 29; Sp. p. 6269; Gaz. vol. 152; p. 1124.

Rouilliard, Victor A., assignor of one-half to L. P. Clapin, Fall River, Mass. Clothes-line-supporting device. No. 980,128; Dec. 27; Sp. p. 5888; Gaz. vol. 161; p. 1006.

Rouleau, Gaspard. (See Valind, Joseph, assignor.)

Roulstone, Rip G., McKenzie, Tenn. Wagon hoist or lift. No. 963,397; July 5; Sp. p. 875; Gaz. vol. 156; p. 129.

Rounds, Myron, Boston, Mass. Convertible passenger railway-car. No. 976,218; Nov. 22; Sp. p. 4696; Gaz. vol. 160; p. 808.

Rountree, Jack R., *et al.* (See Ashford, Thomas B., assignor.)

Rountree, Joseph G., San Antonio, Tex. Pipe-clamp. No. 953,234; Mar. 29; Sp. p. 5707; Gaz. vol. 152; p. 1036.

Rouse, Frank L., Somerville, assignor to Lightening Detachable Rubber Heel Co., Boston, Mass. Heel-attaching means for shoes. No. 947,353; Jan. 25; Sp. p. 5227; Gaz. vol. 150; p. 880.

Rouse, Richard, Jr., Elizabeth, N. J., assignor to Boynton Furnace Company, New York, N. Y. Steam and hot-water boiler. No. 975,462; Nov. 15; Sp. p. 3087; Gaz. vol. 160; p. 527.

Rouse, Spencer, San Saba, Tex. Draft device. No. 976,302; Nov. 22; Sp. p. 4922; Gaz. vol. 160; p. 838.

Rouse, Thomas, London, England. Agglomerating or briqueting copper-ore concentrates preparatory for smelting. No. 955,909; Apr. 26; Sp. p. 4818; Gaz. vol. 153; p. 852.

Rouse, Wallace T. (See Gronke and Rouse.)

Rouse, William H., Grand Rapids, Mich. Card-holder. No. 961,801; June 21; Sp. p. 3220; Gaz. vol. 155; p. 578.

Roush, Charles F. (See Valiquett and Roush.)

Rousseau, Regis, *et al.* (See Day, Charles E., assignor.)

Rousseau, Theodore A., Nashville, Tenn. Device for holding and severing tickets, checks, and the like. No. 974,830; Nov. 8; Sp. p. 1692; Gaz. vol. 160; p. 284.

Roussen, Leon A. D. de. (See Poizot, Emile, assignor.)

Rousset, Jean L. (See Muller and Rousset.)

Rousset, Jules A. G. (See Germain and Ossart, assignors.)

Rouston, John F., Cleveland, Ohio. Shaft-spring. No. 946,274; Jan. 11; Sp. p. 2782; Gaz. vol. 150; p. 462.

Routledge, Simpson J., Ensley, Ala. Safety angle-bar. No. 980,009; Dec. 27; Sp. p. 5593; Gaz. vol. 161; p. 966.

Rouviere, Louis H., Gunnison, Colo. Automatic horse-leader and backer. No. 945,285; Jan. 4; Sp. p. 580; Gaz. vol. 150; p. 95.

Rouy, Gustave, New York, N. Y. Car-truck. No. 971,929; Oct. 4; Sp. p. 915; Gaz. vol. 159; p. 155.

Row, Daniel, Brockville, Ontario, Canada. Hammock. No. 971,688; Oct. 4; Sp. p. 370; Gaz. vol. 159; p. 65.

Row, George E., Omaha, Nebr. Truck. No. 967,061; Aug. 9; Sp. p. 2646; Gaz. vol. 157; p. 435.

Row, George S., Indianapolis, Ind Lens-fastening for nose-glasses. No. 973,215; Oct. 18; Sp. p. 3782; Gaz. vol. 159; p. 646.

Row, Oliver M., Manchester, England. Apparatus for use in connection with the straining, aerating, filtering, and reheating of bath-water and the like. No. 967,244; Aug. 16; Sp. p. 3033; Gaz. vol. 157; p. 525.

Rowan, Alfred G., *et al.* (See Meyer, Eugene, assignor.)

Rowbotham, John, Montgomery county, assignor to James Boyd & Brother, Incorporated, Philadelphia, Pa. Valve-mechanism. No. 949,734; Feb. 15; Sp. p. 4063; Gaz. vol. 151; p. 706.

Rowe, Albert T., Wethersfield, Conn. Key-extracting device. No. 953,923; Apr. 5; Sp. p. 476; Gaz. vol. 153; p. 86.

Rowe, Arthur F., Springfield, Mass. Tailor's appliance. No. 946,072; Jan. 11; Sp. p. 2356; Gaz. vol. 150; p. 391.

Rowe, Frank, and J. W. Rappenglueck, Port Huron, Mich. said Rappenglueck assignor to said Rowe. Lathe. No. 979,034; Dec. 20; Sp. p. 3494; Gaz. vol. 161; p. 611.

Rowe, George H., Berwyn, assignor to Electro-Magnetic Tool Company, Chicago, Ill. Electromechanical device. No. 973,216; Oct. 18; Sp. p. 3783; Gaz. vol. 159; p. 647.

Rowe, James, and M. McCarty, San Francisco, Cal. Pile-protecting. No. 967,442; Aug. 16; Sp. p. 3433; Gaz. vol. 157; p. 592.

Rowe, James P. (See Mecklan, Walter N., assignor.)

Rowe, John A., *et al.* (See Owens, John M., assignor.)

Rowe, Robert J., *et al.* (See Smith, Robert W. J., assignor.)

Rowe, Sidney M., Telford, assignor of one-third to J. W. Bishop and one-third to J. W. Birdwell, Johnson, Tenn. Combined currycomb and brush. No. 977,551; Dec. 6; Sp. p. 311; Gaz. vol. 161; p. 46.

Rowe, Wallace H. (See Adams, James D., assignor.)

Rowe, Wallace H. (See Rietzel, Adolph F., assignor.)

Rowe, Williard C., Marinette, Wis., assignor to Stevens Manufacturing Company. Potato-digger. No. 952,082; Mar. 15; Sp. p. 3281; Gaz. vol. 152; p. 591.

Rowell, Benton C., Chicago, Ill. Apparatus for conveying liquids under pressure. No. 973,816; Oct. 25; Sp. p. 5038; Gaz. vol. 159; p. 876.

Rowell, Frank C., Ilion, and J. L. Nolan, Mohawk, N. Y. Abrading-machine. No. 960,408; June 7; Sp. p. 346; Gaz. vol. 155; p. 58.

Rowell, Frank F., Scranton, Pa. Urinal-slab. No. 963,472; July 5; Sp. p. 1019; Gaz. vol. 156; p. 154.

Rowell, Theodore B., Beaver Dam, Wis. Force-feed seeder. No. 956,545; May 3; Sp. p. 84; Gaz. vol. 154; p. 15.

Rowing, Herbert W., and V. W. Riley, London, England. Internal-combustion motor or engine. No. 966,953; Aug. 9; Sp. p. 2411; Gaz. vol. 157; p. 396.

Rowland, Charles M., Mansfield, Ohio. Corn-crib. No. 957,381; May 10; Sp. p. 1905; Gaz. vol. 154; p. 331.

Rowland, Demas P., Cincinnati, Ohio. Shoe-stretcher. No. 979,705; Dec. 27; Sp. p. 4927; Gaz. vol. 161; p. 864.

Rowland, Herbert K., and L. H. Larsen, Zillah, Wash. Fruit grading and cleaning device. No. 956,426; Apr. 26; Sp. p. 5927; Gaz. vol. 153; p. 1031.

Rowland, Herbert K., and L. H. Larsen, Toppenish, Wash. Fruit cleaner and grader. No. 972,026; Oct. 4; Sp. p. 1133; Gaz. vol. 159; p. 190.

Rowland Telegraphic Company, The. (See Potts, Louis M., assignor.)

Rowlee, Clifton J., Lawrence, Mich. Cultivator attachment. No. 965,230; July 26; Sp. p. 4804; Gaz. vol. 156; p. 831.

Rowley, Aaron V. (See Niedermayr, Georg, assignor.)

Rowley, Emerson E., Bradshaw, Nebr. Manure-spreader. No. 954,137; Apr. 5; Sp. p. 908; Gaz. vol. 153; p. 158.

Alphabetical list of patentees—Continued.

Rowley, James F., Chicago, Ill. Artificial foot. No. 951,149; Mar. 8; Sp. p. 1392; Gaz. vol. 152; p. 253.
Rowley, James F., Chicago, Ill. Artificial-limb suspender and back-check. No. 961,165; June 14; Sp. p. 1867; Gaz. vol. 155; p. 339.
Rowley, James F., Chicago, Ill. Ankle-joint for artificial limbs. No. 969,196; Sept. 6; Sp. p. 116; Gaz. vol. 158; p. 19.
Rowley, Robert, New York, N. Y. Tire-shoe wrapping and vulcanizing apparatus. No. 979,568; Dec. 27; Sp. p. 4649; Gaz. vol. 161; p. 817.
Rowley, Robert, New York, N. Y. Tire-shoe-vulcanizing apparatus. No. 979,889; Dec. 27; Sp. p. 5354; Gaz. vol. 161; p. 926.
Rowley, Robert, New York, N. Y., and J. J. Coomber, Jersey City, N. J., assignors, by mesne assignments, to Rubber Company of America. Making shoes for automobile and other vehicle tires. No. 962,054; June 21; Sp. p. 3779; Gaz. vol. 155; p. 663.
Rowley, Robert, New York, N. Y., and J. J. Coomber, Jersey City, N. J., assignors, by mesne assignments, to Rubber Company of America. Compression apparatus for tire-shoe wrappings. No. 962,102; June 21; Sp. p. 3889; Gaz. vol. 155; p. 680.
Rowley, William W., Jackson, Mich. Molding-machine. No. 947,702; Jan. 25; Sp. p. 5985; Gaz. vol. 150; p. 996.
Rowntree, Harold, assignor to The Pay-Within Car Company, Chicago, Ill. Pay-within car. No. 949,131; Feb. 15; Sp. p. 2852; Gaz. vol. 151; p. 504.
Rowntree, Harold, assignor to The Pay-Within Car Company, Chicago, Ill. Pay-as-you-enter car. No. 949,717; Feb. 15; Sp. p. 4018; Gaz. vol. 151; p. 699.
Rowntree, Harold, Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Electrically-operated control mechanism for pneumatic operating devices. No. 967,245; Aug. 16; Sp. p. 3035; Gaz. vol. 157; p. 525.
Rowntree, Harold, Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Door-moving mechanism. No. 976,924; Nov. 29; Sp. p. 6269; Gaz. vol. 160; p. 1076.
Rowntree, Harold, Chicago, Ill., assignor to National Pneumatic Company. Automatic pressure-controlling device for brake mechanisms. No. 976,925; Nov. 29; Sp. p. 6271; Gaz. vol. 160; p. 1077.
Rowntree, Harold, assignor to National Pneumatic Company, Chicago, Ill. Combined door and step operating mechanism. No. 976,926; Nov. 29; Sp. p. 6276; Gaz. vol. 160; p. 1077.
Rowntree, Harold, Chicago, Ill., and G. M. Spencer, St. Louis, Mo., assignors to Burdett-Rowntree Manufacturing Company. Combined street-car pneumatic door device and brake-release mechanism. No. 954,592; Apr. 12; Sp. p. 1912; Gaz. vol. 153; p. 340.
Rowswell, William H., assignor of one-half to G. H. Bailey, Pittsburg, Pa. Combination testing-gage and pump. No. 975,638; Nov. 15; Sp. p. 3470; Gaz. vol. 160; p. 588.
Rowton, George T., Jackson, Miss. Fluid-pressure air-brake means. No. 947,086; Jan. 18; Sp. p. 4610; Gaz. vol. 150; p. 761.
Roxberg, Arived E., Brainerd, Minn. Hub-fastener. No. 970,646; Sept. 20; Sp. p. 3228; Gaz. vol. 158; p. 556.
Roy, Arthur C. J., Providence, R. I. Window-sash lock. No. 956,427; Apr. 26; Sp. p. 5930; Gaz. vol. 153; p. 1032.
Roy, William O., Montreal, Quebec, Canada. Crate and show-bench. No. 960,199; May 31; Sp. p. 8162; Gaz. vol. 154; p. 1373.
Royal Equipment Company, The. (See Kelley, Edward F., assignor.)
Royal Equipment Company, The. (See Vanderbeek, Herbert, assignor.)
Royal, Forester W., Ballston, Oreg. Carpenter's square. No. 975,079; Nov. 8; Sp. p. 2268; Gaz. vol. 160; p. 370.
Royal Phone and Phonogram Company. (See Runge, Walter C., assignor.)
Royal Typewriter Company. (See Camps, Louis D., assignor.)
Royal Typewriter Company. (See Hess, Edward B., assignor.)
Royal Typewriter Company. (See Hess and Stoughton, assignors.)
Royal Typewriter Company. (See Hopley, Lewis S., assignor.)
Royal Typewriter Company. (See Myers, Lewis C., assignor.)
Royal, William G., assignor of nine one-hundredths to Andrew Paul, Hoboken, and one-eighth to E. T. Wright, Pittsburg, Pa. Wrench. No. 954,213; Apr. 5; Sp. p. 1116; Gaz. vol. 153; p. 185.
Royal Worcester Corset Company. (See Lecoutre, August J., assignor.)
Royalty, Charles H., Chattanooga, Tenn. Hair-dressing comb. No. 970,396; Sept. 13; Sp. p. 2657; Gaz. vol. 158; p. 449.
Royce, James C., Toronto, Ontario, Canada. Electric heater. No. 960,409; June 7; Sp. p. 351; Gaz. vol. 155; p. 59.
Royce, William D. (See Snyder, Mell K., assignor.)
Royden Marble Machinery Company. (See Peirce, John R., asignor.)
Royer, George F., Wilkes-Barre, Pa. Apparatus for treating granular material. No. 977,478; Dec. 6; Sp. p. 113; Gaz. vol. 161; p. 20.
Royer, George F., and L. F. Zweibel, Wilkes-Barre, Pa. Packing for piston-rods. No. 977,477; Dec. 6; Sp. p. 112; Gaz. vol. 161; p. 20.
Royle, Vernon, Paterson, N. J. Ruling-machine. No. 969,496; Sept. 6; Sp. p. 730; Gaz. vol. 158; p. 115.
Royse, Robert L., Martinsville, Ind. Concentrator and amalgamator. No. 979,706; Dec. 27; Sp. p. 4930; Gaz. vol. 161; p. 864.
Royster, William F. (See Fleming and Royster.)
Rozar, Charles B., Empire, Ga. Harrow. No. 960,200; May 31; Sp. p. 8163; Gaz. vol. 154; p. 1373.
Rozell, Clarence W., McCook, Nebr. Hat-indicator. No. 979,707; Dec. 27; Sp. p. 4932; Gaz. vol. 161; p. 864.
Rubber B. B. Co. (See Raflovich, Harry G., assignor.)
Rubber Company of America. (See Rowley and Coomber, assignors.)
Rubber Paint Co., The. (See Williams, Eugene, assignor.)
Rubber Patents Limited, The. (See Turner and Buxton, assignors.)
Rübel, Walter, Vienna, Austria-Hungary. Producing copper-zinc compositions and alloy for the production thereof. No. 952,585; Mar. 22; Sp. p. 4313; Gaz. vol. 152; p. 790.
Rübel, Walter, Berlin, Germany. Alloy and a compound for the production thereof. No. 964,122; July 12; Sp. p. 2412; Gaz. vol. 156; p. 396.
Rubes, Louis, Brooklyn, N. Y. Tubing. No. 970,955; Sept. 20; Sp. p. 3870; Gaz. vol. 158; p. 661.
Rubin, Adolph, assignor of one-half to J. B. Gury, St. Louis, Mo. Oscillating fan. No. 952,468; Mar. 22; Sp. p. 4057; Gaz. vol. 152; p. 750.
Rubin, Adolph, assignor of one-half to J. B. Gury, St. Louis, Mo. Oscillating fan. No. 955,209; Apr. 19; Sp. p. 3267; Gaz. vol. 153; p. 585.
Rubin, Joseph, New York, N. Y. Incandescent gas-lamp. No. 969,984; Sept. 13; Sp. p. 1815; Gaz. vol. 158; p. 309.
Rubin, Robert, assignor of one-half to M. Knoll, Philadelphia, Pa. Dress-form. No. 945,611; Jan. 4; Sp. p. 1290; Gaz. vol. 150; p. 201.
Rubin, Robert, assignor of one-half to M. Knoll, Philadelphia, Pa. Dress-form. No. 963,724; July 5; Sp. p. 1525; Gaz. vol. 156; p. 238.
Ruble, Rollo J., Fairmont, Minn. Milk-pail holder. No. 975,288; Nov. 8; Sp. p. 2726; Gaz. vol. 160; p. 441.
Ruble, Walter, Culdesac, Idaho. Farm-gate. No. 979,708; Dec. 27; Sp. p. 4933; Gaz. vol. 161; p. 865.
Rubly, William, Tuckahoe, N. Y. Hand-oiler. No. 966,861; Aug. 9; Sp. p. 2231; Gaz. vol. 157; p. 367.
Rubrecht, Emil J., and P. C. Dean, Pittsburg, Pa. Attachment for horseshoes. No. 958,547; May 17; Sp. p. 4653; Gaz. vol. 154; p. 764.
Rubright, Mervin M., Hartville, Ohio, assignor to C. G. Conn Co., Elkhart, Ind. Tubing for wind instruments. No. 968,694; Aug. 30; Sp. p. 6128; Gaz. vol. 157; p. 1069.
Rubsamen, George. (See Hall, George F., assignor.)
Ruby, Frederick W., assignor to Ruby Manufacturing Company, Jackson, Mich. Electric-lamp receptacle for electric signs. (Reissue.) No. 13,095; Mar. 15; Sp. p. 3982; Gaz. vol. 152; p. 713.
Ruby, Frederick W., assignor to Ruby Manufacturing Company, Jackson, Mich. Sign. No. 957,259; May 10; Sp. p. 1649; Gaz. vol. 154; p. 290.
Ruby, John F., Canton, Ohio. Skeleton stove-lid. No. 950,119; Feb. 22; Sp. p. 4971; Gaz. vol. 151; p. 874.
Ruby Manufacturing Company. (See Ruby, Frederick W., assignor.)
Ruch, Herman J. (See Sears and Ruch.)
Ruch, Leonard H., Winchester, Tenn. Plow attachment. No. 955,210; Apr. 19; Sp. p. 3271; Gaz. vol. 153; p. 585.
Ruck, John K. F., East St. Louis, Ill. Ladder-scaffold. No. 966,244; Aug. 2; Sp. p. 857; Gaz. vol. 157; p. 136.
Ruckdeschel, Bernard, Philadelphia, Pa., assignor of one-third to D. P. Moore, Washington, D. C. Priming device for explosive-engines. No. 975,639; Nov. 15; Sp. p. 3473; Gaz. vol. 160; p. 589.
Rucker, Benjamin P., Charlotte, N. C. Automatic feeder-regulator. No. 980,129; Dec. 27; Sp. p. 5890; Gaz. vol. 161; p. 1006.
Ruckert, Frederick, assignor of one-half to C. O'Kane, Philadelphia, Pa. Derailment safety device for railway-trucks. No. 945,140; Jan. 4; Sp. p. 265; Gaz. vol. 150; p. 46.
Rudd, Bertrand E., Harrison, Mich. Supporting-post. No. 970,116; Sept. 13; Sp. p. 2086; Gaz. vol. 158; p. 355.
Rudd, Otto, assignor to The Simmons Manufacturing Company, Kenosha, Wis. Metal-bedstead canopy-frame. No. 977,552; Dec. 6; Sp. p. 313; Gaz. vol. 161; p. 46.
Ruddell, Fredrick L., Georgetown, Ontario, Canada, assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 970,956; Sept. 20; Sp. p. 3871; Gaz. vol. 158; p. 661.
Rudder, Frank P., Derby, England. Furnace for refuse-destructors. No. 973,386; Oct. 18; Sp. p. 4133; Gaz. vol. 159; p. 705.
Ruddock, Alexander N. (See Reinhart and Ruddock.)

Ruddy, Francis L., Watertown, N. Y. Thermometer-case. No. 973,307; Oct. 18; Sp. p. 3957; Gaz. vol. 159; p. 677.
Rudeen, Elmer F., Los Angeles, Cal. Condenser. No. 948,432; Feb. 8; Sp. p. 1373; Gaz. vol. 151; p. 245.
Rudolph, Georg, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing half-woolen goods. No. 976,219; Nov. 22; Sp. p. 4702; Gaz. vol. 160; p. 809.
Rudolph Wurlitzer Company, The. (See De Kleist, Eugene, assignor.)
Rudolphi, Frank, Chicago, Ill. Double-seaming machine. No. 975,574; Nov. 15; Sp. p. 3341; Gaz. vol. 160; p. 567.
Rudolphi, Frank, Chicago, Ill., assignor to American Can Company, New York, N. Y. Automatic can-body-flanging machine. No. 948,346; Feb. 8; Sp. p. 1179; Gaz. vol. 151; p. 216.
Rudolphi, Frank, Chicago, Ill., assignor to American Can Company, New York, N. Y. Can-body-making machine. No. 956,179; Apr. 26; Sp. p. 5403; Gaz. vol. 153; p. 948.
Rudolphi, Frank, Chicago, Ill., assignor to American Can Company, New York, N. Y. Can-body machine. No. 956,180; Apr. 26; Sp. p. 5414; Gaz. vol. 153; p. 949.
Rudy, Charles E. (See Ehlen and Rudy.)
Rudy, Daniel, Jr., Nashville, Tenn. Belt-stretcher. No. 960,201; May 31; Sp. p. 8165; Gaz. vol. 154; p. 1374.
Rue, Perry H., Franklin, Ohio. Gluing apparatus. No. 963,070; July 5; Sp. p. 85; Gaz. vol. 156; p. 16.
Ruebe, Cäcilie K., Jersey City Heights, N. J. Necktie-holder for negligée shirts. No. 946,275; Jan. 11; Sp. p. 2783; Gaz. vol. 150; p. 463.
Ruebe, Cäcilie K., Jersey City Heights, N. J. Blouse-shirt. No. 946,400; Jan. 11; Sp. p. 3143; Gaz. vol. 150; p. 506.
Rueben, Nikolaus, Aix-la-Chapelle, Germany. Airship-hall with temporarily-removable roof. No. 956,428; Apr. 26; Sp. p. 5933; Gaz. vol. 153; p. 1032.
Rueckert, George C., Providence, R. I. Jewel-display stand. No. 952,141; Mar. 15; Sp. p. 3397; Gaz. vol. 152; p. 611.
Rueckert, George C., Providence, R. I. Jewelry-tray. No. 962,981; June 28; Sp. p. 5747; Gaz. vol. 155; p. 1006.
Ruedy, Harry U., Toledo, Ohio. Barrel-cover fastener. No. 975,080; Nov. 8; Sp. p. 2271; Gaz. vol. 160; p. 370.
Ruettgers, Ernst, Brooklyn, N. Y. Manicure instrument. No. 973,308; Oct. 18; Sp. p. 3958; Gaz. vol. 159; p. 677.
Ruff, Frederick A., Newark, N. J. Emergency antiskidding device. No. 971,312; Sept. 27; Sp. p. 4606; Gaz. vol. 158; p. 806.
Ruff, Frederick A., Newark, N. J. Antiskidding device. No. 973,976; Oct. 25; Sp. p. 5358; Gaz. vol. 159; p. 932.
Ruffin, George R., Shreveport, La. Drier. No. 966,862; Aug. 9; Sp. p. 2233; Gaz. vol. 157; p. 367.
Rügen, Adolph von, Moscow, Russia. Foundation for frames of every description, &c. No. 977,330; Nov. 29; Sp. p. 7150; Gaz. vol. 160; p. 1217.
Ruger, Durl P., Chicago, Ill. Transmission mechanism. No. 968,266; Aug. 23; Sp. p. 5193; Gaz. vol. 157; p. 893.
Ruggles, Clifton P., Sedalia, Mo. Signal. No. 950,867; Mar. 1; Sp. p. 859; Gaz. vol. 152; p. 137.
Ruggles, Ellen S., administratrix. (See Ruggles, George W.)
Ruggles, George W., deceased, Charlotte, N. Y.; E. S. Ruggles, administratrix. Snow-plow. No. 970,451; Sept. 13; Sp. p. 2773; Gaz. vol. 158; p. 466.
Ruggles, Horace H., Boston, Mass. Grate. No. 971,565; Oct. 4; Sp. p. 117; Gaz. vol. 159; p. 23.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Cordless jack-box. No. 951,918; Mar. 15; Sp. p. 2981; Gaz. vol. 152; p. 539.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 956,782; May 3; Sp. p. 602; Gaz. vol. 154; p. 96.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 960,586; June 7; Sp. p. 709; Gaz. vol. 155; p. 117.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Selective signaling system. No. 965,017; July 19; Sp. p. 4374; Gaz. vol. 156; p. 729.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 969,985; Sept. 13; Sp. p. 1817; Gaz. vol. 158; p. 309.
Ruhl, Joseph, New Rochelle N. Y. Test connection for plumbing systems. No. 948,525; Feb. 8; Sp. p. 1571; Gaz. vol. 151; p. 277.
Ruhlin, Otto, North Andover, Mass. Cloth-measuring machine. No. 959,074; May 24; Sp. p. 5783; Gaz. vol. 154; p. 969.
Rühling, Waldemar, assignor to Hermann Malachowski, Berlin, Germany. Production of incandescent-electric-lamp filaments. No. 973,883; Oct. 25; Sp. p. 5183; Gaz. vol. 159; p. 900.
Ruland, Howard L., Cincinnati, Ohio. Hose-coupling. No. 953,061; Mar. 29; Sp. p. 5324; Gaz. vol. 152; p. 980.
Rulison, Earl F., Paxton, Ill. Chimney-closure. No. 966,245; Aug. 2; Sp. p. 859; Gaz. vol. 157; p. 137.
Rumbarger, Victor E., Dayton, Ohio. Cushion-tire. No. 946,869; Jan. 18; Sp. p. 4188; Gaz. vol. 150; p. 689.
Rumble, Alexander C., assignor of one-half to E. H. Wuhrmann, San Jose, Cal. Transplanter. No. 960,113; May 31; Sp. p. 7995; Gaz. vol. 154; p. 1343.
Rumbley, Frederick N. (See Arp, Hildreth, and Rumbley.)
Rumely Company. (See Higgins, William H. C., Jr., assignor.)
Rumenapp, Carl, Augsburg, Germany. Metal-filament lamp. No. 959,075; May 24; Sp. p. 5785; Gaz. vol. 154; p. 969.
Rumpf, William L. G., Chicago, Ill. Game apparatus. No. 945,286; Jan. 4; Sp. p. 582; Gaz. vol. 150; p. 96.
Rumrill, Harry B., Bryn Mawr, Pa., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 965,231; July 26; Sp. p. 4804; Gaz. vol. 156; p. 831.
Rumsey, Horace S., St. Louis, Mo. Seat for water-closets. No. 949,199; Feb. 15; Sp. p. 2978; Gaz. vol. 151; p. 527.
Rundel Manufacturing Company. (See Rundel, William F., assignor.)
Rundel, William F., Fairport, assignor to Rundel Manufacturing Company, Rochester, N. Y. Razor-sharpening machine. No. 976,927; Nov. 29; Sp. p. 6278; Gaz. vol. 160; p. 1077.
Rundle, Fred A., and A. H. McDougall, assignors to Whiting Foundry Equipment Company, Harvey, Ill. Clutch-operating mechanism for cranes. No. 951,845; Mar. 15; Sp. p. 2817; Gaz. vol. 152; p. 514.
Rundlett, William D., assignor to Davis & Furber Machine Company, North Andover, Mass. Spinning-mule. No. 953,801; Apr. 5; Sp. p. 237; Gaz. vol. 153; p. 42.
Rundlof, Erik A., Stocksund, near Stockholm, Sweden. Internal-combustion engine. No. 963,071; July 5; Sp. p. 86; Gaz. vol. 156; p. 17.
Rundlöf, Erik A., Stocksund, near Stockholm, Sweden. Internal-combustion engine. No. 966,362; Aug. 2; Sp. p. 1077; Gaz. vol. 157; p. 173.
Rune, Otto, Chicago, Ill. Tool-hanger. No. 954,765; Apr. 12; Sp. p. 2327; Gaz. vol. 153; p. 402.
Runge, Oskar. (See Aron and Runge.)
Runge, Paul, Hamburg, Germany. Manufacture of albumose soap. No. 968,423; Aug. 23; Sp. p. 5501; Gaz. vol. 157; p. 948.
Runge, Walter C., Camden, N. J., assignor to Royal Phone and Phonogram Company, Boston, Mass. Mandrel-sleeve for phonograph-records. No. 966,771; Aug. 9; Sp. p. 2043; Gaz. vol. 157; p. 340.
Runge, William, assignor to The Seneca Falls Manufacturing Company, Seneca Falls, N. Y. Friction-clutch. No. 946,155; Jan. 11; Sp. p. 2515; Gaz. vol. 150; p. 419.
Runion, Ace E., Chandler, Okla. Steel tie and clamp. No. 970,957; Sept. 20; Sp. p. 3872; Gaz. vol. 158; p. 661.
Runkel, Albert, New York, N. Y. Automatic closing device for elevator-well gates. No. 968,197; Aug. 23; Sp. p. 5042; Gaz. vol. 157; p. 869.
Runkel, Friedrich. (See Herzberg and Runkel.)
Runkel, Friedrich, and M. Herzberg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 950,404; Feb. 22; Sp. p. 5537; Gaz. vol. 151; p. 970.
Runkel, Friedrich, and M. Herzberg, assignors to Farbenfabriken vorm. Fried. Bayer & Co., Elberfeld, Germany. Azo dye. No. 950,405; Feb. 22; Sp. p. 5539; Gaz. vol. 151; p. 970.
Runkel, Friedrich, and M. Herzberg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 958,830; May 24; Sp. p. 5256; Gaz. vol. 154; p. 886.
Runkel, Friedrich, Elberfeld, and M. Herzberg, Opladen, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Pigment-color. No. 972,130; Oct. 4; Sp. p. 1333; Gaz. vol. 159; p. 224.
Runkle, Tully R., Farmersburg, Ind. Beehive. No. 948,742; Feb. 8; Sp. p. 2043; Gaz. vol. 151; p. 349.
Runner, John B., assignor to O-U-Handy Tool Company, Indianapolis, Ind. Lifting-jack. No. 969,567; Sept. 6; Sp. p. 891; Gaz. vol. 158; p. 141.
Runner, John B., assignor to L. M. Quill and L. A. Browne, Indianapolis, Ind. Starter for hydrocarbon-engines. No. 974,525; Nov. 1; Sp. p. 1034; Gaz. vol. 160; p. 154.
Runner, Ralph E., Indianola, Iowa. Animal-feeding device. No. 965,602; July 26; Sp. p. 5637; Gaz. vol. 156; p. 960.
Ruof, Christian, Zoar, Ohio. Fertilizer-distributer. No. 968,267; Aug. 23; Sp. p. 5196; Gaz. vol. 157; p. 894.
Rupp, Philipp, *et al.* (See Müller, Georg, assignor.)
Ruppel, Frederick J., Cleveland, Ohio. Water-heater. No. 952,280; Mar. 15; Sp. p. 3671; Gaz. vol. 152; p. 658.
Ruppenthal, August R., Brillion, Wis. Milk-can closure. No. 958,012; May 17; Sp. p. 3313; Gaz. vol. 154; p. 577.
Ruppert, Austin J., Forreston, Ill. Trough-clamp. No. 973,387; Oct. 18; Sp. p. 4135; Gaz. vol. 159; p. 705.
Ruppert, Hans, Zurich, Switzerland. Self-igniting gas-burner. No. 949,599; Feb. 15; Sp. p. 3798; Gaz. vol. 151; p. 661.
Ruppert, Hans, Zurich, Switzerland. Gas-burner. No. 977,904; Dec. 6; Sp. p. 1052; Gaz. vol. 161; p. 167.
Rupprecht, Harry E. (See Bex, Frederick, assignor.)
Rush, Charles A., La Grange, Ill. Spark-arrester. No. 970,397; Sept. 13; Sp. p. 2658; Gaz. vol. 158; p. 449.

Alphabetical list of patentees—Continued.

Rush, Frank R., Akeley, Pa. Rail-joint. No. 954,347; Apr. 5; Sp. p. 1389; Gaz. vol. 153; p. 230.
Rush, George F., Chicago, Ill. Electric fixture. No. 962,055; June 21; Sp. p. 3783; Gaz. vol. 155; p. 664.
Russell, Alfred N., Springfield, Mass. Tube-lifter. No. 967,566; Aug. 16; Sp. p. 3692; Gaz. vol. 157; p. 635.
Russell, Alva A., *et al.* (See Pickering, Abel W., assignor.)
Russell, Archibald F. (See Linquest, Oscar B., assignor.)
Russell, Brooks A., Los Angeles, Cal. Portable metallic tool-chest. No. 949,502; Feb. 15; Sp. p. 3608; Gaz. vol. 151; p. 629.
Russell, Burdsall & Ward Bolt and Nut Co. (See Abel, John, assignor.)
Russell, Charles A., New York, N. Y. Tire-case. No. 959,391; May 24; Sp. p. 6414; Gaz. vol. 154; p. 1073.
Russell, Charles D., St. Paul, Minn. Rail-joint. No. 956,828; May 3; Sp. p. 719; Gaz. vol. 154; p. 113.
Russell, Charles D., St. Paul, Minn. Nut-lock. No. 960,040; May 31; Sp. p. 7866; Gaz. vol. 154; p. 1321.
Russell, Clinton W., Detroit, Mich. Locking mechanism for railway dump-cars. No. 966,603; Aug. 9; Sp. p. 1655; Gaz. vol. 157; p. 282.
Russell, Clinton W., Detroit, Mich. Rope-clamp. No. 966,604; Aug. 9; Sp. p. 1656; Gaz. vol. 157; p. 282.
Russell, Dwight M., Bulger, Pa. Wrench. No. 967,062; Aug. 9; Sp. p. 2647; Gaz. vol. 157; p. 435.
Russell, Edward, assignor of one-half to E. E. Burlingame, New York, N. Y., and one-fourth to L. D. and A. Walker. Liquid-cooler. No. 948,252; Feb. 1; Sp. p. 966; Gaz. vol. 151; p. 158.
Russell, Edward F., and E. E. Lavoie, Lowell, Mass. Automobile-engine-starting device. No. 978,939; Dec. 20; Sp. p. 3261; Gaz. vol. 161; p. 578.
Russell, Edwin, Kansas City, Kans. Pneumatic-tire protector. No. 969,908; Sept. 13; Sp. p. 1649; Gaz. vol. 158; p. 285.
Russell & Erwin Manufacturing Company. (See Hurd, Norman B., assignor.)
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)
Russell & Erwin Manufacturing Company. (See Voight and Hurd, assignors.)
Russell, Frank J., New York, N. Y. Electrical receptacle and mounting therefor. No. 945,049; Jan. 4; Sp. p. 86; Gaz. vol. 150; p. 16.
Russell, Frank J., New York, N. Y. Multiple socket for incandescent lamps. No. 947,763; Jan. 25; Sp. p. 6094; Gaz. vol. 150; p. 1016.
Russell, Frank J., New York, N. Y. Electrical receptacle. No. 948,567; Feb. 8; Sp. p. 1662; Gaz. vol. 151; p. 290.
Russell, Frank J., New York, N. Y. Sign-receptacle fastening. No. 973,567; Oct. 25; Sp. p. 4518; Gaz. vol. 159; p. 789.
Russell, Frank J., Brooklyn, N. Y. Screw-plug electrical receptacle. No. 955,438; Apr. 19; Sp. p. 3761; Gaz. vol. 153; p. 660.
Russell, Frank J., Brooklyn, N. Y. High-voltage receptacle and plug. No. 969,409; Sept. 6; Sp. p. 548; Gaz. vol. 158; p. 88.
Russell, Frank J., Brooklyn, N. Y. Sign-receptacle fastening-eyelet. No. 973,568; Oct. 25; Sp. p. 4520; Gaz. vol. 159; p. 789.
Russell, Frank J., Brooklyn, N. Y. Sign-receptacle fastening-eyelet. No. 973,817; Oct. 25; Sp. p. 5040; Gaz. vol. 159; p. 876.
Russell, Frederic M., Willesden, London, England. Time recording and indicating apparatus, workman's telltale, and the like. No. 953,802; Apr. 5; Sp. p. 243; Gaz. vol. 153; p. 43.
Russell, Frederic M., and A. J. Jung, Willisden, London, England. Time indicating and recording machine or apparatus. No. 967,567; Aug. 16; Sp. p. 3694; Gaz. vol. 157; p. 636.
Russell, Harry, *et al.* (See Tullock, William, assignor.)
Russell, Hezekiah, Marion, Ohio. Water-softening apparatus. No. 958,831; May 24; Sp. p. 5257; Gaz. vol. 154; p. 886.
Russell, Hezekiah, Dayton, Ohio. Water-softening apparatus. No. 958,832; May 24; Sp. p. 5262; Gaz. vol. 154; p. 887.
Russell, James F., Woodstock, assignor to S. E. Russell, Hamilton, Ontario, Canada. Conveyer. No. 975,721; Nov. 15; Sp. p. 3647; Gaz. vol. 160; p. 614.
Russell, John L., Albion, Cal. Level. No. 965,659; July 26; Sp. p. 5759; Gaz. vol. 156; p. 980.
Russell, John R., Sterling, Ill. Quilting device. No. 960,709; June 7; Sp. p. 956; Gaz. vol. 155; p. 159.
Russell, Joseph F. (See Kirkpatrick, Peter T., assignor.)
Russell, Joseph R., Chicago, Ill. Clothes-drying rack. No. 948,653; Feb. 8; Sp. p. 1849; Gaz. vol. 151; p. 319.
Russell, Mary N. (See Russell, Willis W., assignor.)
Russell, Orion F., Lawrence, Kans. Indicator. No. 947,131; Jan. 18; Sp. p. 4688; Gaz. vol. 150; p. 774.
Russell, Percy, New York, N. Y., and A. W. Schramm, Riverton, N. J., assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Air-compressing apparatus. No. 978,062; Dec. 6; Sp. p. 1377; Gaz. vol. 161; p. 221.
Russell, Robert C., Arthur, Ontario, Canada, assignor of fifteen one-hundredths to G. T. Griffiths, Columbus, and thirty-five one-hundredths to C. F. Warner, New Philadelphia, Ohio. Churn. No. 961,802; June 21; Sp. p. 3221; Gaz. vol. 155; p. 578.
Russell, Robert L. (See Russell, Walter L. and R. L.)
Russell, Samuel G. (See Shakespeare and Russell.)
Russell, Sarah E. (See Russell, James F., assignor.)
Russell, Silas B., St. Louis, Mo. Reinforcing unit for concrete. No. 951,150; Mar. 8; Sp. p. 1394; Gaz. vol. 152; p. 253.
Russell, Thomas T. (See Noad, Arthur C., assignor.)
Russell, Walter L. and R. L., Ripley, Ohio. Tobacco-press. No. 966,126; Aug. 2; Sp. p. 592; Gaz. vol. 157; p. 97.
Russell, Willis W., Highland Park, assignor to M. N. Russell, Milltown, N. J. Playing or game card. No. 957,105; May 3; Sp. p. 1296; Gaz. vol. 154; p. 206.
Russen, Henry F., Franklin, Mass. Oil-burner. No. 949,913; Feb. 22; Sp. p. 4497; Gaz. vol. 151; p. 803.
Russia Cement Company. (See Phillips, Nathan C., assignor.)
Rust, Armistead, U. S. Navy. Reel life-buoy. No. 951,846; Mar. 15; Sp. p. 2818; Gaz. vol. 152; p. 514.
Rust, Robert R., New York, N. Y. Pipe-coupling. No. 961,987; June 21; Sp. p. 3636; Gaz. vol. 155; p. 639.
Rustige, Frans J. H., Stockholm, Sweden. Vaporizing apparatus for liquid fuel. No. 947,458; Jan. 25; Sp. p. 5469; Gaz. vol. 150; p. 914.
Rustige, Frans J. H., Stockholm, Sweden. Regulating device for vaporizers. No. 952,142; Mar. 15; Sp. p. 3399; Gaz. vol. 152; p. 611.
Ruth, David C., Halstead, Kans. Rotary plow. No. 974,711; Nov. 1; Sp. p. 1440; Gaz. vol. 160; p. 222.
Ruth, Edward C., Mount Vernon, N. Y. Electric-fixture fitting. No. 956,603; May 3; Sp. p. 211; Gaz. vol. 154; p. 36.
Ruth, Hugo, New York, N. Y. Plunger-lubricating ring. No. 947,650; Jan. 25; Sp. p. 5902; Gaz. vol. 150; p. 980.
Ruthardt, Hermann, Stuttgart, Germany. Rotary current-breaker. No. 947,853; Feb. 1; Sp. p. 162; Gaz. vol. 151; p. 27.
Ruthenberg, Hermann, Villen Colonie Grunewald, near Berlin, Germany. Rotary fan or propeller. No. 959,392; May 24; Sp. p. 6416; Gaz. vol. 154; p. 1073.
Rutherford, John C., assignor to Iron Tire Pneumatic Wheel Company, New York, N. Y. Vehicle-wheel. No. 949,636; Feb. 15; Sp. p. 3868; Gaz. vol. 151; p. 674.
Rutherford, Thomas J., *et al.* (See Mace, Alfred H., assignor.)
Rutherford, William, *et al.* (See Mace, Alfred H., assignor.)
Rutherfurd, Robert A., New York, N. Y. Street-sweeping machine. No. 978,784; Dec. 13; Sp. p. 2949; Gaz. vol 161; p. 499.
Rutherfurd, Robert A., and M. Craven, New York, N. Y. Street-cleaning machine. No. 978,216; Dec. 13; Sp. p. 1731; Gaz. vol. 161; p. 305.
Rutland, William F., Sr., Rion, S. C. Rail-splice. No. 972,927; Oct. 18; Sp. p. 3129; Gaz. vol. 159; p. 547.
Rutledge, G. C., *et al.* (See Reed, Harry, assignor.)
Rutledge, James E., *et al.* (See Misner, Edgar D., assignor.)
Ruttan, William J., Hawarden, Iowa. Halter-tie. No. 948,828; Feb. 8; Sp. p. 2229; Gaz. vol. 151; p. 377.
Rutz, John, Beach, N. D. Binder-hitch. No. 979,709; Dec. 27; Sp. p. 4935; Gaz. vol. 161; p. 865.
Ruud, Edwin. (See Merk, Lawrence A., assignor.)
Ruud, Edwin, Pittsburg, Pa. Pilot-light burner for water-heaters. No. 968,605; Aug. 30; Sp. p. 5896; Gaz. vol. 157; p. 1039.
Ruud, Edwin, Pittsburg, Pa. Condensate-collector for water-heaters. No. 975,894; Nov. 15; Sp. p. 4001; Gaz. vol. 160; p. 674.
Ruud, Edwin, Pittsburg, Pa. Indirect water-heating system. No. 972,895; Nov. 15; Sp. p. 4003; Gaz. vol. 160; p. 674.
Ruwell, William F. (See Williams, Benjamin A., assignor.)
Ryan, Allan C. (See Lovett, David W., assignor.)
Ryan, Charles A., Orosi, Cal. Plow-shaft. No. 976,303; Nov. 22; Sp. p. 4924; Gaz. vol. 160; p. 839.
Ryan, Edmund, Lawrenceville, Ill. Metallic receptacle. No. 962,470; June 28; Sp. p. 4712; Gaz. vol. 155; p. 830.
Ryan, Edward, Clinton, Iowa. Lubricating apparatus for steam-engines. No. 962,859; June 28; Sp. p. 5520; Gaz. vol. 155; p. 966.
Ryan, Edward, Clinton, Iowa. Sanding-pipe for locomotives. No. 976,304; Nov. 22; Sp. p. 4926; Gaz. vol. 160; p. 839.
Ryan, George A., Amarillo, Tex. Tire-tightener. No. 949,663; Feb. 15; Sp. p. 3914; Gaz. vol. 151; p. 682.
Ryan, James P., Indianapolis, Ind. Carbureter. No. 970,558; Sept. 20; Sp. p. 3019; Gaz. vol. 158; p. 526.
Ryan, James R. (See Boulieu, John, assignor.)
Ryan, Joseph H., Pittsburg, Pa. Bituminous mixing machine. No. 960,410; June 7; Sp. p. 353; Gaz. vol. 155; p. 59.
Ryan, Lural S. (See Paton, Walter J., assignor.)

Ryan, Michael E., Fall River, Mass. Animal fiber for felting and preparing the same. No. 970,756; Sept. 20; Sp. p. 3474; Gaz. vol. 158; p. 594.
Ryan, Michael E., Fall River, Mass. Cutting-machine. No. 978,217; Dec. 13; Sp. p. 1735; Gaz. vol. 161; p. 305.
Ryan, Theodor E. (See Carlberg and Ryan.)
Ryan, Thomas F. (See Higley and Ryan.)
Ryan, Thomas J., Roxbury, assignor to T. G. Plant, Boston, Mass. Insole for boots and shoes. No. 958,013; May 17; Sp. p. 3314; Gaz. vol. 154; p. 577.
Ryan, Walter D., Lynn, Mass., assignor to General Electric Company. Arc-lamp. No. 946,156; Jan. 11; Sp. p. 2517; Gaz. vol. 150; p. 420.
Ryan, Walter D., Lynn, Mass., assignor to General Electric Company. Candle-foot photometer. No. 953,765; Apr. 5; Sp. p. 168; Gaz. vol. 153; p. 31.
Ryan, Walter D., Watertown, S. D., assignor to General Electric Company. Luximeter. No. 963,072; July 5; Sp. p. 88; Gaz. vol. 156; p. 17.
Ryan, Walter S., assignor of three-fourths to L. Hengerer, New York, N. Y. Receptacle or socket for electric lamps. No. 962,589; June 28; Sp. p. 4981; Gaz. vol. 155; p. 872.
Ryan, William E., Mason, Nev. Automobile sled attachment. No. 970,354; Sept. 13; Sp. p. 2575; Gaz. vol. 158; p. 435.
Ryan, William S., Viola, Ill. Lamp. No. 957,627; May 10; Sp. p. 2395; Gaz. vol. 154; p. 415.
Ryave, Samuel, McKees Rocks, Pa. Stool. No. 959,393; May 24; Sp. p. 6418; Gaz. vol. 154; p. 1073.
Rybař, František, Ransko, Austria-Hungary. Belt-fastening machine. No. 967,677; Aug. 16; Sp. p. 3909; Gaz. vol. 157; p. 670.
Rydell, John S., Minneapolis, Minn. Surgical instrument. No. 958,179; May 17; Sp. p. 3770; Gaz. vol. 154; p. 637.
Ryden, Claes. (See Wardwell and Ryden.)
Ryder, Enoch W., Dowagiac, Mich. Tension device for check-row planters. No. 977,134; Nov. 29; Sp. p. 6759; Gaz. vol. 160; p. 1150.
Ryder, George W., assignor of one-half to A. E. Bailey, Boston, Mass. Magazine for picture-films. No. 956,178; Apr. 26; Sp. p. 5399; Gaz. vol. 153; p. 947.
Ryder, Hugh T., and J. P. Johnson, Greensboro, N. C. Air-brake mechanism. No. 972,027; Oct. 4; Sp. p. 1137; Gaz. vol. 159; p. 191.
Ryder, Malcolm, New York, N. Y. Combined step-ladder and window-chair. No. 952,948; Mar. 22; Sp. p. 5088; Gaz. vol. 152; p. 914.
Ryder, Summer G., assignor to The Standard Tool Company, Cleveland, Ohio. Reamer. No. 955,696; Apr. 19; Sp. p. 4344; Gaz. vol. 153; p. 750.
Rydquist, Adolph, Rochester, N. Y. Shoe-blacking case. No. 946,464; Jan. 11; Sp. p. 3287; Gaz. vol. 150; p. 528.
Rydquist, Adolph, Rochester, N. Y. Vending-machine. No. 949,914; Feb. 22; Sp. p. 4499; Gaz. vol. 151; p. 803.
Rye, Johan H., Christiania, Norway. Cart. No. 963,252; July 5; Sp. p. 584; Gaz. vol. 156; p. 81.
Ryer, C. F. (See Gratz, Martin, assignor.)
Rylander, William P., San Marcos, Tex. Shutter and ventilator. No. 949,600; Feb. 15; Sp. p. 3800; Gaz. vol. 151; p. 661.
Rymer, William T., Walnut Springs, Tex. Float-valve. No. 953,235; Mar. 29; Sp. p. 5708; Gaz. vol. 152; p. 1036.
Ryon, Eppa H. (See Le Doux and Ryon.)
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle for weft-replenishing looms. No. 951,488; Mar. 8; Sp. p. 2097; Gaz. vol. 152; p. 363.
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 951,659; Mar. 8; Sp. p. 2432; Gaz. vol. 152; p. 420.
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom. No. 966,402; Aug. 2; Sp. p. 1150; Gaz. vol. 157; p. 186.
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 972,722; Oct. 11; Sp. p. 2640; Gaz. vol. 159; p. 448.
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Cop-winding machine. No. 976,698; Nov. 22; Sp. p. 5747; Gaz. vol. 160; p. 973.
Ryther, Frank A., Chicago, Ill., assignor to International Harvester Company. Baling-press. No. 958,321; May 17; Sp. p. 4208; Gaz. vol. 154; p. 687.
Ryther, Frank A., Chicago, Ill., assignor to International Harvester Company. Baling-press. No. 965,750; July 26; Sp. p. 5936; Gaz. vol. 156; p. 1010.
S. Karpen & Bros. (See Karpen, Solomon, assignor.)
S. Obermayer Company, The. (See Green, Charles H., assignor.)
S. A. Woods Machine Company. (See Blood, Charles W. H., assignor.)
S. A. Woods Machine Company. (See Blood and Osteman, assignors.)
"S. C." Regulator Company, The. (See Copley, Noiberto G., assignor.)
S. C. F. Machinery Company. (See Shields, Harry A., assignor.)
S. D. Manufacturing Co. (See Spangler, Jacob R., assignor.)
S. F. Bowser & Company. (See Bowser, Allen A., assignor.)
S. F. Bowser & Company, (See Moore, Edward J., assignor.)
S. F. Bowser & Company. (See Mulligan, Thomas F., assignor.)
S. H. Wetmore Company, The. (See Blackman, Charles M., assignor.)
S. M. Bixby & Company. (See Eul, Peter J., assignor.)
S. R. Bailey & Co. (See Bailey, Samuel R., assignor.)
S. R. Dresser Manufacturing Company. (See Clark, James, assignor.)
S. S. Wenzell Machine Company. (See Van Leir, Henry W., assignor.).
S. S. White Dental Mfg. Co., The. (See Hammond, John F., assignor.)
S. S. White Dental Mfg. Co., The. (See Koch, Alfred, assignor.)
Saart, William H., Attleboro, Mass., assignor to The W. H. Saart Company. Chatelaine-bag. No. 971,411; Sept. 27; Sp. p. 4793; Gaz. vol. 158; p. 839.
Sabathé, Louis G., Paris, assignor to the Societe des Moteurs Sabathe, Saint-Etienne, Loire, France. Internal-combustion engine and operating the same. No. 975,640; Nov. 15; Sp. p. 3475; Gaz. vol. 160; p. 589.
Sabatier, Paul, Toulouse, France. Manufacturing methane or mixtures of methane and hydrogen. No. 956,734; May 3; Sp. p. 503; Gaz. vol. 154; p. 81.
Sabatino, John, New York, N. Y. Massage apparatus. No. 949,550; Feb. 15; Sp. p. 3711; Gaz. vol. 151; p. 645.
Sabin, Walter H., Crookston, Minn. Hay-stacker. No. 969,197; Sept. 6; Sp. p. 117; Gaz. vol. 158; p. 19.
Sabine, Lorenzo, assignor to The Gem Shirt Co., Dayton, Ohio. Hunting-coat. No. 946,910; Jan. 18; Sp. p. 4281; Gaz. vol. 150; p. 704.
Sabo, John, Cleveland, Ohio. Automatic magazine. No. 947,476; Jan. 25; Sp. p. 5527; Gaz. vol. 150; p. 920.
Saborne, James. (See Hall and Saborne.)
Sabroe, Axel, Hadersleben, Germany. Milking device. No. 973,704; Oct. 25; Sp. p. 4814; Gaz. vol. 159; p. 837.
Sachs Company, The. (See Sachs and Reynolds, assignors.)
Sachs, Ernst, Schweinfurt, Germany. Free-wheel-cycle hub with brake mechanism. No. 960,710; June 7; Sp. p. 957; Gaz. vol. 155; p. 159.
Sachs, Joseph, and F. D. Reynolds, assignors to The Sachs Company, Hartford, Conn. Safety-fuse. No. 959,807; May 31; Sp. p. 7309; Gaz. vol. 154; p. 1238.
Sachs, Solomon, Roanoke, Va. Glove. No. 975,289; Nov. 8; Sp. p. 2727; Gaz. vol. 160; p. 442.
Sachs, Walter, Roanoke, Va. Trunk. No. 953,715; Apr. 5; Sp. p. 62; Gaz. vol. 153; p. 14.
Sachse, Paul C. (See Bornmueller and Sachse.)
Sack, Adelheid, heir. (See Sack, Hugo.)
Sack, Hugo, deceased, Dusseldorf, Germany; A. Sack, sole heir. Rolling-mill plant. No. 970,559; Sept. 20; Sp. p. 3022; Gaz. vol. 158; p. 526.
Sackett, August J., Baltimore, Md. Pulverizing-mill. No. 955,910; Apr. 26; Sp. p. 4819; Gaz. vol. 153; p. 852.
Sackett, Charles E., Danbury, Conn. Hat-brim matricing and flanging machine. No. 950,244; Feb. 22; Sp. p. 5237; Gaz. vol. 151; p. 918.
Sackett, Charles E., Danbury, Conn. Hat-brim edging, setting, and rounding machine. No. 957,519; May 10; Sp. p. 2183; Gaz. vol. 154; p. 377.
Sackett, Charles E., Danbury, Conn. Hat-brim conformator curling-machine. No. 971,566; Oct. 4; Sp. p. 121; Gaz. vol. 159; p. 23.
Sackett, Hiram B., Chicago, Ill. Sack-holder. No. 957,260; May 10; Sp. p. 1652; Gaz. vol. 154; p. 290.
Sackett, Hiram B., Chicago, Ill. Coal-screen. No. 969,659; Sept. 6; Sp. p. 1080; Gaz. vol. 158; p. 173.
Sackman, William H., assignor to Pennsylvania Specialty Manufacturing Co., Cochranton, Pa. Detachable and portable light-holder. No. 958,440; May 17; Sp. p. 4454; Gaz. vol. 154; p. 728.
Saddlemire, Ambrose L., Knox, N. Y. Hame-tug. No. 960,114; May 31; Sp. p. 7997; Gaz. vol. 154; p. 1344.
Sadleir, William G. (See Kingsley, Greene, and Sadleir.)
Sadler, Charles. (See Chisholm, Charles L., assignor.)
Sadler, Charles C., Altoona, Pa. Sand-paper-applying device. No. 945,477; Jan. 4; Sp. p. 1008; Gaz. vol. 150; p. 158.
Sadler, Holmes E. (See Fowler and Sadler.)
Sadler, Luther. (See Farmer, Frank H., assignor.)
Sado, Solomon, Philadelphia, Pa. Rope net. No. 958,773; May 24; Sp. p. 5118; Gaz. vol. 154; p. 864.
Saecker, Frank E., Appleton, Wis. Driving mechanism for paper-refining engines. No. 951,919; Mar. 15; Sp. p. 2982; Gaz. vol. 152; p. 539.
Saegmuller, George N., Rochester, N. Y. Indicator-operating means. No. 961,898; June 21; Sp. p. 3445; Gaz. vol. 155; p. 610.
Saegmuller, George N., assignor to Bausch & Lomb Optical Co., Rochester, N. Y. Telescope-mount. No. 949,780; Feb. 22; Sp. p. 4183; Gaz. vol. 151; p. 756.
Saegmuller, George N., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical instrument. No. 963,473; July 5; Sp. p. 1020; Gaz. vol. 156; p. 155.

Alphabetical list of patentees—Continued.

Saegmuller, John L., and A. Grebe, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Leveling mechanism for engineering and surveying instruments. No. 955,911; Apr. 26; Sp. p. 4821; Gaz. vol. 153; p. 853.
Saemann, Laura N., Oak Park, Ill. Abdominal supporter. No. 966,863; Aug. 9; Sp. p. 2235; Gaz. vol. 157; p. 367.
Saenger, C. F., *et al.* (See Greenslitt, Charles W., assignor.)
Saeter, Hallvard B., Stavanger, Norway. Machine for treating pulp. No. 975,798; Nov. 15; Sp. p. 3811; Gaz. vol. 160; p. 641.
Safety Armorite Conduit Company. (See Hewitt, Wallace B., assignor.)
Safety Car Heating and Lighting Co. (See Donnell, Harry D., assignor.)
Safety Car Heating & Lighting Company. (See Allbee, Elmer E., assignor.)
Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.)
Safety Car Heating & Lighting Company, The. (See Dixon, Robert M., assignor.)
Safety Car Heating & Lighting Company. (See Garland, William L., assignor.)
Safety Car Heating & Lighting Company. (See Hulse, George E., assignor.)
Safety Car Heating & Lighting Company. (See Lungren, Charles M., assignor.)
Safety Car Heating & Lighting Company, The. (See Thomson, William I., assignor.)
Safety Car Heating & Lighting Company. (See Towne, Joseph M., assignor.)
Safety and Economy Damper Company. (See Arnold, Arthur W., assignor.)
Safety Elevator Lock and Signal Company. (See Humphrey, Henry A., assignor.)
Safety Fuse Cap Company. (See Daniels, Thomas M., assignor.)
Safety Investment Company. (See Warner, Henry H., assignor.)
Safety Tire Company, The. (See Crawford, George W., assignor.)
Saffell, Chester R., U. S. Navy, assignor to J. Firth, New York, N. Y. Space telegraphy. No. 966,475; Aug. 9; Sp. p. 1339; Gaz. vol. 157; p. 238.
Safford, Clarence E., Detroit, Mich. Sad-iron. No. 951,743; Mar. 8; Sp. p. 2593; Gaz. vol. 152; p. 448.
Sagax Wood Company, The. (See Siegmann, William G. F., assignor.)
Sagendorph, George A., trustee. (See Dolan, James P., assignor.)
Sager, Harry A., Missoula, Mont. Ladder. No. 963,474; July 5; Sp. p. 1023; Gaz. vol. 156; p. 155.
Sager, Hattie. (See Lahay, Dell J., assignor.)
Sager, James H., Rochester, N. Y. Shock-absorber. No. 973,217; Oct. 18; Sp. p. 3786; Gaz. vol. 159; p. 647.
Sager, James H., assignor to James H. Sager Company, Rochester, N. Y. Shock-absorber. No. 970,647; Sept. 20; Sp. p. 3230; Gaz. vol. 158; p. 556.
Saginaw Fire Escape Company. (See Wartenberg, Charles W. L., assignor.)
Saha, Radhika N., Benares, India. Fountain-pen. No. 962,982; June 28; Sp. p. 5748; Gaz. vol. 155; p. 1006.
Sahlin, Henning G., Malden, Mass. Controller for turbines. No. 979,802; Dec. 27; Sp. p. 5176; Gaz. vol. 161; p. 897.
Sahlin, Henning G., Malden, assignor of forty-five one-hundredths to D. Rice, Boston, Mass. Speed-governor. No. 967,443; Aug. 16; Sp. p. 3435; Gaz. vol. 157; p. 592.
Sahlin, Henning G., Malden, assignor of forty-five one-hundredths to D. Rice, Boston, Mass. Controlling means for turbines. No. 967,444; Aug. 16; Sp. p. 3436; Gaz. vol. 157; p. 593.
Sahlin, Rose, Chicago, Ill. Garment hanger and protector. No. 961,803; June 21; Sp. p. 3223; Gaz. vol. 155; p. 579.
Sährig, Theodor, Berlin, Germany, assignor to General Electric Company. Protective device for electrodes. No. 963,809; July 12; Sp. p. 1749; Gaz. vol. 156; p. 290.
Sailer, John M., Janesville, Wis. Driving-gear. No. 952,143; Mar. 15; Sp. p. 3400; Gaz. vol. 152; p. 612.
Sainsbury, James T. (See Colhower and Sainsbury.)
Saint Paul Fire & Marine Insurance Company. (See Green, Herbert S., assignor.)
Sakren, Benjamin. (See Burger and Sakren.)
Saks, David, New York, N. Y. Metallic bed-pan. No. 978,940; Dec. 20; Sp. p. 3264; Gaz. vol. 161; p. 579.
Sala, Antenor, Mexico, Mexico. Producing permanent, insoluble, incombustible, and washable coatings. No. 963,816; July 12; Sp. p. 1750; Gaz. vol. 156; p. 290.
Sala, Antenor, Mexico, Mexico. Fire-extinguishing compound. No. 967,246; Aug. 16; Sp. p. 3039; Gaz. vol. 157; p. 526.
Saladin Pneumatic Malting Construction Company. (See Prinz, William H., assignor.)
Salamon, Alfred G. (See Hood and Salamon.)
Salch, George J., New York, N. Y. Lamp. No. 973,072; Oct. 18; Sp. p. 3440; Gaz. vol. 159; p. 596.
Salcher, Alois. (See Werlé, Nikolaus, assignor.)

Saldin, Max, New York, N. Y. Attachment for sewing-machines. No. 955,439; Apr. 19; Sp. p. 3763; Gaz. vol. 153; p. 661.
Saldin, Max, assignor to J. H. and H. R. Boyce, Brooklyn, N. Y. Lady's knit drawers. No. 969,808; Sept. 13; Sp. p. 1437; Gaz. vol. 158; p. 250.
Sale, Clarence. (See Winston and Bywater, assignors.)
Salem Laundry Company. (See Yates, Thomas J., assignor.)
Salenius, Anders G. G., assignor to Separator Aktiebolaget Fama, Stockholm, Sweden. Centrifugal drum and parts thereof. No. 963,073; July 5; Sp. p. 94; Gaz. vol. 156; p. 17.
Salinger, Jean S., New Rochelle, N. Y. Bed-strap. No. 973,977; Oct. 25; Sp. p. 5360; Gaz. vol. 159; p. 933.
Salinger, S. R. (See Gardner, Benjamin F., assignor.)
Salisbury, Albert E. (See Bastian and Salisbury.)
Salisbury, George F., Boston, Mass. Soap and brush holder. No. 964,698; July 19; Sp. p. 3741; Gaz. vol. 156; p. 621.
Salisbury, Levi E., Providence, R. I. Power-loom for weaving textile fabrics. No. 955,211; Apr. 19; Sp. p. 3272; Gaz. vol. 153; p. 586.
Salisbury, Levi E., Providence, R. I. Weft-stop-motion means for looms. No. 955,212; Apr. 19; Sp. p. 3275; Gaz. vol. 153; p. 586.
Salisbury, Oscar, Bassano, Alberta, Canada. Nut-lock. No. 976,928; Nov. 29; Sp. p. 6280; Gaz. vol. 160; p. 1078.
Salladay, John W., Milwaukee, Wis., assignor of one-fourth to H. J. Carpenter and one-fourth to C. C. Dixon, Rewey, Iowa. Vehicle-wheel. No. 955,440; Apr. 19; Sp. p. 3765; Gaz. vol. 153; p. 661.
Sallander, Anton W., Fort Madison, Iowa. Appliance for lifting-jacks. No. 971,217; Sept. 27; Sp. p. 4432; Gaz. vol. 158; p. 777.
Salles, Gustave, Bordeaux, France. Boat salvage device. No. 945,141; Jan. 4; Sp. p. 266; Gaz. vol. 150; p. 47.
Salls, Henry H., and M. Wool, Burlington, Vt. Snow-guard. No. 956,647; May 3; Sp. p. 305; Gaz. vol. 154; p. 50.
Salmon, Wilfried, Minneapolis, Minn. Locomotive-pedestal grinder. No. 964,884; July 19; Sp. p. 4118; Gaz. vol. 156; p. 685.
Salmond, Malcolm, Toledo, Ohio. Amusement device. No. 978,489; Dec. 13; Sp. p. 2319; Gaz. vol. 161; p. 400.
Salom, Pedro G., Philadelphia, Pa. Negative plate for storage batteries and manufacture thereof. No. 960,115; May 31; Sp. p. 7999; Gaz. vol. 154; p. 1344.
Salomo, Henry A. H., Melbourne, Victoria, Australia. Differential gearing. No. 959,394; May 24; Sp. p. 6420; Gaz. vol. 154; p. 1074.
Salomon, George. (See Salomon, Max and G.)
Salomon, Max and G., assignors to S. S. Einstein, Cincinnati, Ohio. Fuel-briquet and making same. No. 965,541; July 26; Sp. p. 5515; Gaz. vol. 156; p. 939.
Salsbury, Charles E., and R. O. Couch, Hampton, Iowa. Car-door. No. 965,751; July 26; Sp. p. 5939; Gaz. vol. 156; p. 1011.
Salstrom, David B., assignor of one-half to E. Kopriwa, Chicago, Ill. Carving-machine. No. 957,716; May 10; Sp. p. 2574; Gaz. vol. 154; p. 446.
Salstrom, David B., assignor of one-half to E. Kopriwa, Chicago, Ill. Carving-machine. No. 957,717; May 10; Sp. p. 2578; Gaz. vol. 154; p. 446.
Saltlamachia, Anthony F., Huntington Park, Cal. Lawn-sprinkler. No. 963,944; July 12; Sp. p. 2025; Gaz. vol. 156; p. 334.
Saltzman, Auguste L., East Orange, N. J., assignor to American Planograph Company. Producing letter-press planographic-printing plates. No. 979,890; Dec. 27; Sp. p. 5357; Gaz. vol. 161; p. 926.
Saltzman, Joseph, Chicago, Ill. Pressing-machine. No. 953,399; Mar. 29; Sp. p. 6079; Gaz. vol. 152; p. 1092.
Salvato, Nicolas, Philadelphia, Pa. Razor-hone. No. 947,511; Jan. 25; Sp. p. 5616; Gaz. vol. 150; p. 932.
Salviolo, Carmine J. (See Astruck and Salviolo.)
Salviolo, Carmine J., Brooklyn, assignor of one-half to J. H. Astruck, New York, N. Y. Cigar-cutter. No. 964,561; July 19; Sp. p. 3357; Gaz. vol. 156; p. 573.
Salway, William S. (See Kauffmann, Lou B., assignor.)
Salzer, Bruno, and G. Walther, Chemnitz, Germany. Jacquard apparatus. No. 963,183; July 5; Sp. p. 397; Gaz. vol. 156; p. 56.
Salzer, Rudolph, Trenton, N. J., assignor to The De Laval Steam Turbine Company. Centrifugal pump. No. 976,400; Nov. 22; Sp. p. 5145; Gaz. vol. 160; p. 873.
Samaia, Dino D., Vicenza, Italy. Tramway-switch. No. 951,151; Mar. 8; Sp. p. 1396; Gaz. vol. 152; p. 253.
Sammons, Alfred H., and D. T. Peters, Kansas City, Mo. Shade-hanger. No. 967,568; Aug. 16; Sp. p. 3697; Gaz. vol. 157; p. 636.
Samoje, Leo, Antwerp, Belgium. Gas-turbine. No. 966,363; Aug. 2; Sp. p. 1080; Gaz. vol. 157; p. 173.
Sampere, Jose. (See Scott and Sampere.)
Sampson, Albert R., Jersey City, N. J. Manifold-copying device. No. 954,822; Apr. 12; Sp. p. 2470; Gaz. vol. 153; p. 421.
Sampson, Eric G., and A. L. Welham, assignors to Art Metal Construction Co., Jamestown, N. Y. File-holder. No. 974,601; Nov. 1; Sp. p. 1195; Gaz. vol. 160; p. 183.

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Sampson, George T., Dayton, Ohio. Bicycle attachment. No. 947,945; Feb. 1; Sp. p. 352; Gaz. vol. 151; p. 57.
Sampson, Samuel, Philadelphia, Pa. Cloth-piling apparatus. No. 968,808; Aug. 30; Sp. p. 6350; Gaz. vol. 157; p. 1107.
Sampson, Samuel, Philadelphia, Pa. Device for piling cloth in the desired lengths. No. 976,604; Nov. 22; Sp. p. 5573; Gaz. vol. 160; p. 942.
Sampson, William E., Grand Island, Nebr. Tire-protector. No. 967,979; Aug. 23; Sp. p. 4536; Gaz. vol. 157; p. 796.
Samson Cordage Works. (See Tolman and Bixby, assignors.)
Samson, David, Chambers, Nebr. Safety-stirrup. No. 975,164; Nov. 8; Sp. p. 2464; Gaz. vol. 160; p. 399.
Samson, Elmer E. (See Archibald, William H., assignor.)
Samson Iron Works. (See Kroyer, John M., assignor.)
Samson, Richard, Burlingame, Cal. Hat-rack. No. 965,660; July 26; Sp. p. 5760; Gaz. vol. 156; p. 980.
Samson, William S., Lancaster, Ohio. Mounting for eyeglasses and spectacles. No. 963,653; July 5; Sp. p. 1382; Gaz. vol. 156; p. 215.
Samstag, Henry F., New York, N. Y. Toy. No. 966,127; Aug. 2; Sp. p. 594; Gaz. vol. 157; p. 97.
Samuel C. Tatum Company. (See Mendenhall and Stebbins, assignors.)
Samuel Courtauld & Company. (See Wilson, Leonard P., assignor.)
Samuel Cupples Wooden Ware Company. (See Wallace, Henry B., assignor.)
Samuel Cupples Wooden Ware Company. (See Wallace and Lackey, assignors.)
Samuel, Marcus R. A. (See Lockwood and Samuel.)
Samuell, Walter A., assignor of forty-nine one-hundredths to F. E. Fuller, Ringwood, Okla. Windlass. No. 979,710; Dec. 27; Sp. p. 4937; Gaz. vol. 161; p. 865.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Emergency-governor. No. 960,411; June 7; Sp. p. 354; Gaz. vol. 155; p. 59.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Governing mechanism for turbines. No. 963,074; July 5; Sp. p. 96; Gaz. vol. 156; p. 18.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Governing mechanism for elastic-fluid turbines. No. 963,811; July 12; Sp. p. 1752; Gaz. vol. 156; p. 290.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Leakage-reducing device. No. 967,247; Aug. 16; Sp. p. 3041; Gaz. vol. 157; p. 526.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Governing mechanism for mixed-pressure turbines. No. 973,705; Oct. 25; Sp. p. 4815; Gaz. vol. 159; p. 837.
Samuelson, Jacob, Healdsburg, Cal. Step-ladder. No. 970,560; Sept. 20; Sp. p. 3025; Gaz. vol. 158; p. 526.
Sanborn, Andrew F., Jr., Philadelphia, Pa. Spring-support for hammocks. No. 965,838; July 26; Sp. p. 6141; Gaz. vol. 156; p. 1041.
Sanborn, Andrew F., Jr., Philadelphia, Pa. Spring-support for hammocks. No. 965,839; July 26; Sp. p. 6143; Gaz. vol. 156; p. 1041.
Sanborn, Elmer H., Los Angeles, Cal. Stamp. No. 975,463; Nov. 15; Sp. p. 3089; Gaz. vol. 160; p. 528.
Sanborn, John P., Cleveland, Ohio, assignor to C. B. Tuttle, Detroit, Mich. Electric appliance for horses. No. 977,331; Nov. 29; Sp. p. 7151; Gaz. vol. 160; p. 1217.
Sanburn, Willis H., West Springfield, Mass. Paper-pulp-refining engine. No. 950,868; Mar. 1; Sp. p. 861; Gaz. vol. 152; p. 138.
Sand Mixing Machine Company, The. (See Lorimer, George W., assignor.)
Sandblom, Gustav, New York, N. Y. Metallic stair. No. 960,412; June 7; Sp. p. 357; Gaz. vol. 155; p. 60.
Sandel, Philipp O., and W. E. McCann, Noble, Okla. Grain-divider. No. 952,362; Mar. 15; Sp. p. 3830; Gaz. vol. 152; p. 685.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Telephone-call recorder. No. 979,569; Dec. 27; Sp. p. 4651; Gaz. vol. 161; p. 817.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Telephone-call recorder. No. 979,570; Dec. 27; Sp. p. 4655; Gaz. vol. 161; p. 817.
Sander, George, assignor to The Reuhl Moulding Manufacturing Company, Cincinnati, Ohio. Machine for ornamenting wood. No. 966,605; Aug. 9; Sp. p. 1657; Gaz. vol. 157; p. 283.
Sanders, David P., Lancaster, Pa. Power car-truck. No. 950,057; Feb. 22; Sp. p. 4854; Gaz. vol. 151; p. 854.
Sanders, David P., Lancaster, Pa. Mold-sander. No. 956,829; May 3; Sp. p. 721; Gaz. vol. 154; p. 114.
Sanders, H., *et al.* (See Fox, Charles E., assignor.)
Sanders, Joseph, Washington, D. C. Sound-record tablet. No. 956,904; May 3; Sp. p. 882; Gaz. vol. 154; p. 140.
Sanders, Joseph, Washington, D. C. Making sound-record tablets. No. 956,905; May 3; Sp. p. 888; Gaz. vol. 154; p. 140.
Sanders, Lee, Belcherville, Tex. Stalk-cutter. No. 961,988; June 21; Sp. p. 3637; Gaz. vol. 155; p. 639.
Sanders, Newell, Chattanooga, Tenn. Plow. No. 951,702; Mar. 8; Sp. p. 2496; Gaz. vol. 152; p. 434.
Sanders, Richard L., Bowling Green, Mo. Water elevator and distributer. No. 950,960; Mar. 1; Sp. p. 1045; Gaz. vol. 152; p. 167.
Sanders, Stephen P., Cupertino, Cal. Carbureter. No. 962,860; June 28; Sp. p. 5522; Gaz. vol. 155; p. 966.
Sanderson, Cyrus E., Lincoln, Nebr. Manufacture of boot and shoe soles. No. 960,202; May 31; Sp. p. 8167; Gaz. vol. 154; p. 1374.
Sanderson, Edward S., Waterbury, Conn., assignor, by mesne assignments, to Dressel Railway Lamp Works, New York, N. Y. Wick-stop lamp-burner. No. 957,106; May 3; Sp. p. 1297; Gaz. vol. 154; p. 206.
Sanderson, Edward S., assignor to Scovill Manufacturing Company, Waterbury, Conn. Socket-shell and globe-holder for electric lights. No. 977,553; Dec. 6; Sp. p. 315; Gaz. vol. 161; p. 47.
Sanderson, Elizabeth G., Stockton, assignor to New Idea Game Company, Oakland, Cal. Educational game apparatus. No. 952,997; Mar. 22; Sp. p. 5174; Gaz. vol. 152; p. 929.
Sanderson, William, New York, N. Y. Making records for phonographs, &c. No. 947,777; Jan. 25; Sp. p. 6124; Gaz. vol. 150; p. 1020.
Sandford, William E., Zanesville, Ohio. Automatic dumping apparatus for pipe machinery and the like. No. 950,729; Mar. 1; Sp. p. 582; Gaz. vol. 152; p. 91.
Sandham, Josiah D. (See Sandham, Ralph R., assignor.)
Sandham, Ralph R., Harlan, Iowa. Spraying attachment for bath-tubs. No. 963,812; July 12; Sp. p. 1756; Gaz. vol. 156; p. 291.
Sandham, Ralph R., Harlan, Iowa. Spraying attachment for bath-tubs. No. 963,945; July 12; Sp. p. 2026; Gaz. vol. 156; p. 334.
Sandham, Ralph R., Harlan, Iowa, assignor, by mesne assignments, of one-half to J. D. Sandham, Omaha, Nebr. Wheel. No. 948,978; Feb. 8; Sp. p. 2518; Gaz. vol. 151; p. 428.
Sandham, Walter E., Pasadena, assignor, by mesne assignments, to Northam Auto Pressure Gauge Co., Los Angeles, Cal. Tire air-pressure gage. No. 948,526; Feb. 8; Sp. p. 1572; Gaz. vol. 151; p. 277.
Sandifur, William R., Locust Grove, Ga. Display-rack for holding hats. No. 950,961; Mar. 1; Sp. p. 1050; Gaz. vol. 152; p. 168.
Sandle, George V., South Erie, Pa. Drinking-fountain for fowls. No. 967,063; Aug. 9; Sp. p. 2648; Gaz. vol. 157; p. 435.
Sandmann, Michael, Dresden, Germany. Cliche and other surface for printing purposes. No. 955,912; Apr. 26; Sp. p. 4823; Gaz. vol. 153; p. 853.
Sandmyre, Guy C., Bucoda, Wash. Pulley-block. No. 980,010; Dec. 27; Sp. p. 5594; Gaz. vol. 161; p. 966.
Sandner, Erich, assignor to J. I. Wile, Cleveland, Ohio. Hydraulically-operated valve. No. 947,311; Jan. 25; Sp. p. 5123; Gaz. vol. 150; p. 865.
Sandner, Erich, assignor to J. I. Wile, Cleveland, Ohio. Water-regulator for gas-producers. No. 967,980; Aug. 23; Sp. p. 4537; Gaz. vol. 157; p. 797.
Sandoe, Leroy A., Hope, Ark. Churn-dasher. No. 978,653; Dec. 13; Sp. p. 2689; Gaz. vol. 161; p. 458.
Sandoz, Jules F., Palmyra, N. J. Eight-day watch. No. 963,398; July 5; Sp. p. 876; Gaz. vol. 156; p. 129.
Sandquist, Axel N., Belgrade, Mont. Wire-fence-gate fastener. No. 964,056; July 12; Sp. p. 2273; Gaz. vol. 156; p. 374.
Sands, Edwyn D., Elmira, N. Y. Steering mechanism for aerial trucks. No. 969,301; Sept. 6; Sp. p. 314; Gaz. vol. 158; p. 51.
Sands, Harry Z. (See Sweet, Burton W., assignor.)
Sands, Julius J., Fremont, Nebr. Grain-door for railway-cars. No. 966,476; Aug. 9; Sp. p. 1341; Gaz. vol. 157; p. 238.
Sands, Louis C., Pittsburg, Pa. Tubing and casing hook. No. 950,641; Mar. 1; Sp. p. 382; Gaz. vol. 152; p. 61.
Sands, Louis C., Pittsburg, Pa. Bailer for oil and like wells. No. 951,408; Mar. 8; Sp. p. 1936; Gaz. vol. 152; p. 336.
Sands, Nettie A. M., Newark, N. J. Head-covering. No. 946,770; Jan. 18; Sp. p. 3931; Gaz. vol. 150; p. 654.
Sands, Philip, New York, N. Y. Self-igniting-match box. No. 965,948; Aug. 2; Sp. p. 205; Gaz. vol. 157; p. 36.
Sands, Tollef O. (See Blaha, Anton, assignor.)
Sandusky Foundry & Machine Company, The. (See Millspaugh, William H., assignor.)
Sandwich Electric Company. (See Rugh, Harry O., assignor.)
Sandy, James A., Minneapolis, Minn. Fire-box door with draft device. No. 960,711; June 7; Sp. p. 960; Gaz. vol. 155; p. 159.
Saner, R. E. L. (See Poe, James G., assignor.)
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Fire-polishing glassware. No. 960,587; June 7; Sp. p. 711; Gaz. vol. 155; p. 117.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Burner for fire-polishing glassware. No. 962,861; June 28; Sp. p. 5525; Gaz. vol. 155; p. 967.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Burner for fire-polishing glassware. No. 962,862; June 28; Sp. p. 5527; Gaz. vol. 155; p. 967.

Alphabetical list of patentees—Continued.

Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Apparatus for fire-polishing glassware. No. 962,863; June 28; Sp. p. 5528; Gaz. vol. 155; p. 967.
Sanford, Andrew J., assignor to The A. H. Heisey & Co. Inc., Newark, Ohio. Window-lighter. No. 964,057; July 12; Sp. p. 2274; Gaz. vol. 156; p. 374.
Sanford, Andrew J., assignor to The A. H. Heisey & Co., Inc., Newark, Ohio. Window-lighter. No. 964,058; July 12; Sp. p. 2276; Gaz. vol. 156; p. 374.
Sanford & Bennett Company. (See Sanford, William W., assignor.)
Sanford, Charles L., Washington, Pa. Receptacle. No. 979,803; Dec. 27; Sp. p. 5179; Gaz. vol. 161; p. 898.
Sanford, Frank C., Bridgeport, Conn. Acetylene-generator. No. 965,949; Aug. 2; Sp. p. 206; Gaz. vol. 157; p. 36.
Sanford, Frank C., Bridgeport, Conn., and A. E. Brion, Brooklyn, N. Y. Apparatus for welding the meeting edges of metallic articles. No. 950,626; Mar. 1; Sp. p. 347; Gaz. vol. 152; p. 57.
Sanford, Frank V., Ellenville, N. Y. Knife construction. No. 973,978; Oct. 25; Sp. p. 5361; Gaz. vol. 159; p. 933.
Sanford, Hugh W., Knoxville, Tenn. Spring-link. No. 961,022; June 7; Sp. p. 1573; Gaz. vol. 155; p. 264.
Sanford, John I., New Orleans, La. Hand printing device. No. 963,184; July 5; Sp. p. 399; Gaz. vol. 156; p. 57.
Sanford, Theodore W., Ansonia, Conn. Nautical doll. No. 954,544; Apr. 12; Sp. p. 1805; Gaz. vol. 153; p. 325.
Sanford, William A., Dunellen, N. J. Voting apparatus. No. 977,905; Dec. 6; Sp. p. 1053; Gaz. vol. 161; p. 167.
Sanford, William W., Newark, N. J. Clip for pens or pencils. No. 952,469; Mar. 22; Sp. p. 4060; Gaz. vol. 152; p. 750.
Sanford, William W., Newark, N. J. Reservoir-pen. No. 960,413; June 7; Sp. p. 358; Gaz. vol. 155; p. 60.
Sanford, William W., Newark, N. J., assignor to Sanford & Bennett Company, New York, N. Y. Reservoir-pen. No. 969,198; Sept. 6; Sp. p. 120; Gaz. vol. 158; p. 20.
Sang, Alfred, St. Cloud, France. Manufacturing brass-dust. No. 946,738; Jan. 18; Sp. p. 3854; Gaz. vol. 150; p. 643.
Sang, Alfred, Sewickley, Pa. Depositing copper and other metals. No. 948,662; Feb. 8; Sp. p. 1865; Gaz. vol. 151; p. 322.
Sang, Alfred, Bellevue, Pa. Coating metals by cementation. No. 948,663; Feb. 8; Sp. p. 1867; Gaz. vol. 151; p. 322.
Sangamo Electric Company. (See Lanphier, Robert C., assignor.)
Sangster, Andrew J., Chicago, Ill. Non-slippable attachment for horseshoes. No. 962,471; June 28; Sp. p. 4714; Gaz. vol. 155; p. 831.
Sanguinette, Septimus S., assignor to American Bank Note Company, New York, N. Y. Package for playing-cards. No. 945,868; Jan. 11; Sp. p. 1925; Gaz. vol. 150; p. 320.
Sanitary Can Company. (See Wegner, Fred, assignor.)
Sanitary Company, The. (See Dehn, William H., assignor.)
Sanitary Paper Bottle Company. (See Nazel, John, assignor.)
Sanitary Paper Bottle Company. (See Nazel and Barlow, assignors.)
Sanitary Receptacle Top Co. (See Stapleton, John F., assignor.)
Sanitary Steel Couch Company. (See Grotenhuis, William J., assignor.)
Sanitary Utilities Company. (See Buell, Azel C., assignor.)
Sanker, Leonard J., Los Angeles, Cal. Wind-shield. No. 973,706; Oct. 25; Sp. p. 4820; Gaz. vol. 159; p. 838.
Sanner, Henry H., assignor to Excelsior Stove & Manufacturing Company, Quincy, Ill. Hinge for molding-flasks. No. 965,752; July 26; Sp. p. 5941; Gaz. vol. 156; p. 1011.
Saphar, William D., Iola, Kans. Mail-receiving apparatus. No. 953,554; Mar. 29; Sp. p. 6401; Gaz. vol. 152; p. 1147.
Saphore, Edward E., New York, N. Y. Door lock and switch. No. 948,796; Feb. 8; Sp. p. 2157; Gaz. vol. 151; p. 367.
Sapp, Carl E., *et al.* (See Hemphill, Henry B., assignor.)
Sapp, Casiah. (See Sapp, James E. and C.)
Sapp, Glen A., *et al.* (See Hemphill, Henry B., assignor.)
Sapp, Isaac H., Cheyenne, Wyo. Drumhead-tightener. No. 966,477; Aug. 9; Sp. p. 1342; Gaz. vol. 157; p. 238.
Sapp, James E., Bainbridge, Ga. Bearing. No. 958,548; May 17; Sp. p. 4654; Gaz. vol. 154; p. 764.
Sapp, James E. and C., Bainbridge, Ga. Bag-holder. No. 970,398; Sept. 13; Sp. p. 2659; Gaz. vol. 158; p. 449.
Sapp, Mary A., Centerville, Iowa. Combined window-shade ornament and weight. No. 955,913; Apr. 26; Sp. p. 4824; Gaz. vol. 153; p. 853.
Saracco, Pietro, Saluzzo, Italy. Stopping device for silk-doubling machines. No. 976,499; Nov. 22; Sp. p. 5347; Gaz. vol. 160; p. 907.
Sarchett, Harry P., Nowata, Okla. Sash-hanger. No. 971,313; Sept. 27; Sp. p. 4607; Gaz. vol. 158; p. 807.
Sarff, Arthur W., Summit, S. D. Lamp. No. 979,571; Dec. 27; Sp. p. 4660; Gaz. vol. 161; p. 818.
Sargeant, Mortimer W., East Orange, N. J. Flying-machine. No. 979,341; Dec. 20; Sp. p. 4162; Gaz. vol. 161; p. 718.
Sargent, Allston, New York, N. Y. Pocket cigar-case. No. 964,699; July 19; Sp. p. 3743; Gaz. vol. 156; p. 622.
Sargent, Allston, New York, N. Y. Cigar-chest. No. 970,648; Sept. 20; Sp. p. 3232; Gaz. vol. 158; p. 556.
Sargent, Allston, New York, N. Y. Show-case moistener. No. 978,218; Dec. 13; Sp. p. 1737; Gaz. vol. 161; p. 305.
Sargent, Charles E., assignor to Wisconsin Engine Company, Corliss, Wis. Ignition magneto mechanism for air-started internal-combustion engines. No. 961,648; June 14; Sp. p. 2906; Gaz. vol. 155; p. 503.
Sargent & Company. (See Sargent, Edward R., assignor.)
Sargent & Company. (See Shaw, John H., assignor.)
Sargent, Eaton D., Winchendon, Mass. Freezer. No. 962,390; June 21; Sp. p. 4504; Gaz. vol. 155; p. 777.
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 945,050; Jan. 4; Sp. p. 89; Gaz. vol. 150; p. 16.
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Handle for caskets and other articles. No. 964,562; July 19; Sp. p. 3358; Gaz. vol. 156; p. 574.
Sargent, F. A., *et al.* (See Reed, Harry, assignor.)
Sargent, Frederick, Glencoe, assignor of one-half to O. E. Oleson, Chicago, Ill. Pipe-coupling. No. 977,226; Nov. 29; Sp. p. 6954; Gaz. vol. 160; p. 1182.
Sargent, Frederick G., Graniteville, Mass. Wireless telegraphy. No. 957,001; May 3; Sp. p. 1090; Gaz. vol. 154; p. 171.
Sargent, Frederick G., Graniteville, Mass. Wool-washing machine and the like. No. 961,023; June 7; Sp. p. 1575; Gaz. vol. 155; p. 264.
Sargent, Frederick G., Graniteville, Mass. Wireless telegraphy. No. 976,500; Nov. 22; Sp. p. 5348; Gaz. vol. 160; p. 907.
Sargent, Frederick G., Westford, Mass. Wave-receiving device. No. 959,967; May 31; Sp. p. 7678; Gaz. vol. 154; p. 1294.
Sargent, Frederick G., Westford, Mass. Wireless apparatus. No. 974,191; Nov. 1; Sp. p. 197; Gaz. vol. 160; p. 33.
Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Carrier for wool-washing machines. No. 970,118; Sept. 13; Sp. p. 2090; Gaz. vol. 158; p. 356.
Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Wool-washer. No. 973,388; Oct. 18; Sp. p. 4137; Gaz. vol. 159; p. 705.
Sargent, George H., and A. G. Hollingshead, Chicago, Ill. Boiler-water-glass shield. No. 974,299; Nov. 1; Sp. p. 497; Gaz. vol. 160; p. 73.
Sargent & Greenleaf Company. (See Diesel, William F., assignor.)
Sargent, Henry D., Worcester, Mass. Buckle. No. 967,445; Aug. 16; Sp. p. 3443; Gaz. vol. 157; p. 593.
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Combined cleat and switch for house-wiring. No. 953,236; Mar. 29; Sp. p. 5710; Gaz. vol. 152; p. 1037.
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Incandescent-lamp socket. No. 954,823; Apr. 12; Sp. p. 2472; Gaz. vol. 153; p. 421.
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Attaching-plug. No. 957,261; May 10; Sp. p. 1653; Gaz. vol. 154; p. 291.
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Twin lamp-socket. No. 960,414; June 7; Sp. p. 359; Gaz. vol. 155; p. 60.
Sargent, Marshall B., Momence, assignor to Emerson Typewriter Company, Chicago, Ill. Type-writer line-lock mechanism. No. 948,147; Feb. 1; Sp. p. 757; Gaz. vol. 151; p. 124.
Sargent, Marshall B., Momence, assignor to Emerson Typewriter Company, Chicago, Ill. Paper-guide for type-writers. No. 950,190; Feb. 22; Sp. p. 5121; Gaz. vol. 151; p. 899.
Sargent, Marshall B., Momence, assignor to Emerson Typewriter Co., Chicago, Ill. Back-feed mechanism for type-writers. No. 954,138; Apr. 5; Sp. p. 911; Gaz. vol. 153; p. 158.
Sargent, Martin L., Leadville, Colo., assignor to The Drill Dust Catcher Company. Means for collecting drill-cuttings. No. 856,181; Apr. 26; Sp. p. 5424; Gaz. vol. 153; p. 949.
Sarkisian, Dickran M., Malden, Mass. Means for operating curtains. No. 978,219; Dec. 13; Sp. p. 1738; Gaz. vol. 161; p. 306.
Sarkisian, Dickran M., Malden, Mass. Means for operating curtains. No. 978,220; Dec. 13; Sp. p. 1740; Gaz. vol. 161; p. 306.
Sarles, Karl J., Kenwood Springs, and T. E. Heeter, St. Louis, Mo. Loose-leaf binder. No. 973,707; Oct. 25; Sp. p. 4821; Gaz. vol. 159; p. 838.
Sartolou, John B. (See Gibson and Sartolou.)
Sartor, Joseph E., and W. Hitesman, Cincinnati, Ohio. Switch. No. 947,459; Jan. 25; Sp. p. 5470; Gaz. vol. 150; p. 914.

Alphabetical list of patentees—Continued.

Sasaman, Frank P., West Pittston, Pa. Eccentric-fastening. No. 979,207; Dec. 20; Sp. p. 3889; Gaz. vol. 161; p. 673.

Sasgen, Michael J., Chicago, Ill. Derrick. No. 947,029; Jan. 18; Sp. p. 4515; Gaz. vol. 150; p. 743.

Sass, Peter, San Francisco, Cal. Floor surfacing and polishing machine. No. 978,654; Dec. 13; Sp. p. 2691; Gaz. vol. 161; p. 458.

Sasse, Augustus H., Pueblo, Colo. Emergency-escapeway for mines. No. 964,563; July 19; Sp. p. 3359; Gaz. vol. 156; p. 574.

Sassenberg, Joseph C., Chicago, Ill. Garment-rack. No. 975,799; Nov. 15; Sp. p. 3812; Gaz. vol. 160; p. 642.

Sato, Ryuji, Los Angeles, Cal. Game apparatus. No. 952,644; Mar. 22; Sp. p. 4452; Gaz. vol. 152; p. 811.

Satter, Joseph G. (See Lewis, Benjamin F., assignor.)

Satterlund, Nels W., Carpio, Tex. Cylinder-harrow. No. 966,128; Aug. 2; Sp. p. 594; Gaz. vol. 157; p. 98.

Sattler, Andrew, Carpinteria, Cal. Method of and apparatus for pumping oil-wells. No. 966,772; Aug. 9; Sp. p. 2045; Gaz. vol. 157; p. 340.

Sattley, Frederick L., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 950,120; Feb. 22; Sp. p. 4972; Gaz. vol. 151; p. 874.

Sattley Stacker Company, The. (See Brower, William W., assignor.)

Saucier, Henry L., assignor to E. Gagnon, Arctic Center, R. I. Adjustable curtain-fixture. No. 951,260; Mar. 8; Sp. p. 1608; Gaz. vol. 152; p. 287.

Sauer, Frederick H., New York, N. Y. Air-valve. No. 950,627; Mar. 1; Sp. p. 350; Gaz. vol. 152; p. 57.

Sauer, John W., Trotwood, Ohio. Heater for incubators. No. 950,245; Feb. 22; Sp. p. 5241; Gaz. vol. 151; p. 919.

Sauer, Joseph A., Hamilton, Ohio. Mud-guard attachment. No. 952,144; Mar. 15; Sp. p. 3402; Gaz. vol. 152; p. 612.

Sauerbeck, Louis, Gera, Reuss, Germany. Moisture-proof interior covering or lining for use in buildings. No. 978,655; Dec. 13; Sp. p. 2693; Gaz. vol. 161; p. 458.

Sauerbrei, Richard, assignor to G. Sauerbrey Maschinenfabrik, Aktiengesellschaft, Stassfurt, Germany. Evaporator. No. 978,490; Dec. 13; Sp. p. 2320; Gaz. vol. 161; p. 400.

Sauerman, John F., Russellville, Ark. Coal and ore crusher. No. 955,555; Apr. 19; Sp. p. 4003; Gaz. vol. 153; p. 701.

Sauers, John. (See Rosenzweig, Charles, assignor.)

Saul, Erich. (See Herz and Saul.)

Sauls, J. A. (See Hall, James G., assignor.)

Sault, Zephaniah L., Somerville, Mass. Stop-cock. No. 956,866; May 3; Sp. p. 799; Gaz. vol. 154; p. 127.

Saunders, Augustus M., McKeesport, assignor to National Tube Company, Pittsburg, Pa. Plate-bending apparatus. No. 965,018; July 19; Sp. p. 4376; Gaz. vol. 156; p. 730.

Saunders, Charles, Saginaw, Mich. Combined skylight and automatic ventilator. No. 969,199; Sept. 6; Sp. p. 122; Gaz. vol. 158; p. 20.

Saunders, Fannie E., Comanche, Okla. Anchoring fence-post. No. 963,075; July 5; Sp. p. 100; Gaz. vol. 156; p. 18.

Saunders, Harry E., and R. D. Croft, Toronto, Ontario, Canada. Control attachment for fountains of platen printing-presses. No. 970,355; Sept. 13; Sp. p. 2578; Gaz. vol. 158; p. 435.

Saunders, Isaac H., Washington, D. C. Car-platform closure. No. 961,024; June 7; Sp. p. 1577; Gaz. vol. 155; p. 264.

Saunders, Leslie R., Los Angeles, Cal. Circuit-closing device. No. 973,818; Oct. 25; Sp. p. 5042; Gaz. vol. 159; p. 876.

Saunders, Lewis E. (See Jeppson and Saunders.)

Saunders, Lewis E., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Abrasive material and making it. No. 954,766; Apr. 12; Sp. p. 2328; Gaz. vol. 153; p. 402.

Saunders, Lewis E., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Composition of matter containing oxids of aluminum and titanium. No. 954,767; Apr. 12; Sp. p. 2330; Gaz. vol. 153; p. 403.

Saunders, Lewis E., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Composition of matter containing oxids of aluminum, silicon, and titanium and making same. No. 954,768; Apr. 12; Sp. p. 2330; Gaz. vol. 153; p. 403.

Saunders, Lewis E., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Purifying aluminous materials. No. 960,712; June 7; Sp. p. 962; Gaz. vol. 155; p. 160.

Saunders, William L., assignor to The Automatic Paper Feeder Company, Denver, Colo. Interleaving mechanism. No. 963,946; July 12; Sp. p. 2028; Gaz. vol. 156; p. 334.

Saurer, Hippolyt, Arbon, Switzerland. Speed-regulating device for automobiles and the like. No. 976,834; Nov. 22; Sp. p. 6033; Gaz. vol. 160; p. 1019.

Saurer Maschinenfabrik, Adolph. (See Kunkel, Anton, assignor.)

Sauter, Herman, assignor to Gilbert, Harris & Company, Chicago, Ill. Calipers. No. 966,773; Aug. 9; Sp. p. 2047; Gaz. vol. 157; p. 340.

Sautter, Adrien, Clearwater, Kans. Elevator. No. 953,297; Mar. 29; Sp. p. 5847; Gaz. vol. 152; p. 1056.

Sauvage, William H., New York, N. Y. Brake-rigging. No. 963,947; July 12; Sp. p. 2031; Gaz. vol. 156; p. 335.

Sauvageon, Marius, Colombes, France. Electric furnace for the continuous manufacture of glass. No. 972,778; Oct. 11; Sp. p. 2743; Gaz. vol. 159; p. 467.

Sauvageon, Marius, Colombes, France. Electric furnace for the continuous manufacture of glass. No. 972,779; Oct. 11; Sp. p. 2744; Gaz. vol. 159; p. 467.

Sauveur, Albert, Cambridge, Mass. Magnetic specimen-holder for microscopes. No. 977,842; Dec. 6; Sp. p. 918; Gaz. vol. 161; p. 145.

Savage, Arthur C., Schenectady, N. Y., assignor to General Electric Company. Interlocking switch. No. 957,262; May 10; Sp. p. 1655; Gaz. vol. 154; p. 291.

Savage, Frederic W., Granville, N. Y. Waterproof boot. No. 966,774; Aug. 9; Sp. p. 2049; Gaz. vol. 157; p. 341.

Savage, Frederic W., Granville, N. Y. Boot and shoe. No. 967,064; Aug. 9; Sp. p. 2649; Gaz. vol. 157; p. 436.

Savage, George E., assignor to Manning, Bowman & Company, Meriden, Conn. Chafing-dish stand. No. 945,287; Jan. 4; Sp. p. 583; Gaz. vol. 150; p. 96.

Savage, George E., assignor to Manning, Bowman & Company, Meriden, Conn. Percolating device. No. 951,581; Mar. 8; Sp. p. 2270; Gaz. vol. 152; p. 394.

Savage, George E., and E. A. Gutermann, assignors to Manning Bowman & Company, Meriden, Conn. Vapor-stove and stand. No. 954,703; Apr. 12; Sp. p. 2161; Gaz. vol. 153; p. 378.

Savage, Henry H., Mount Holly, N. J. Belt for military or sporting use. No. 954,006; Apr. 5; Sp. p. 641; Gaz. vol. 153; p. 114.

Savage, Hermon. (See Mack, Mathias, assignor.)

Savage, Hugh, Seraing, Belgium. Apparatus for purifying blast-furnace gas. No. 948,664; Feb. 8; Sp. p. 1868; Gaz. vol. 151; p. 322.

Savage, Nicholas J. (See Canfield, Harry R., assignor.)

Savage, Orrin H., New York, N. Y., assignor to Oakville Company, Waterbury, Conn. Device for applying sterilizers to mouthpieces. No. 949,159; Feb. 15; Sp. p. 2903; Gaz. vol. 151; p. 514.

Savage, Richard J., Chicago, Ill. Tilting mixing-kettle. No. 978,491; Dec. 13; Sp. p. 2321; Gaz. vol. 161; p. 400.

Savage, William W., assignor of one-half to R. Moderwell, Buffalo, N. Y. Elevator-annunciator. No. 961,025; June 7; Sp. p. 1579; Gaz. vol. 155; p. 265.

Savard, Arthur. (See Savard, Phillip and A.)

Savard, Edwin E., and W. E. Jones, Rochester, N. Y. Gas-engine. No. 977,752; Dec. 6; Sp. p. 728; Gaz. vol. 161; p. 114.

Savard, Phillip and A., Omaha, Nebr. Movable crest for dams. No. 968,082; Aug. 23; Sp. p. 4776; Gaz. vol. 157; p. 831.

Saver Manufacturing Co. (See Winant, Gilbert S., assignor.)

Savery, Robert E., assignor of one-half to W. C. Pentecost, Knox, Ind. Folding umbrella. No. 950,458; Feb. 22; Sp. p. 5628; Gaz. vol. 151; p. 987.

Savidge, Albert C., Sunbury, Pa. Rotary engine. No. 968,268; Aug. 23; Sp. p. 5199; Gaz. vol. 157; p. 895.

Saville, Harry, Cleckheaton, assignor to The British Steel and Wire Company, Limited, Manchester, England. Continuous-wire-drawing machinery. No. 954,888; Apr. 12; Sp. p. 2619; Gaz. vol. 153; p. 445.

Saville, Harry, assignor to The British Steel & Wire Company, Limited, Manchester, England. Continuous-wire-drawing machine. No. 975,641; Nov. 15; Sp. p. 3478; Gaz. vol. 160; p. 589.

Savino, Rocko T., New York, N. Y. Flying-machine. No. 973,389; Oct. 18; Sp. p. 4138; Gaz. vol. 159; p. 706.

Savoie, Anatole J., Glencoe, La. Rotary engine. No. 961,026; June 7; Sp. p. 1583; Gaz. vol. 155; p. 265.

Savoie, Joseph, Central Falls, R. I. Bridge connection for lenses for spectacles. No. 977,227; Nov. 29; Sp. p. 6955; Gaz. vol. 160; p. 1182.

Savoie, Leo L., New Orleans, La. Cushion-tire for vehicle-wheels. No. 967,065; Aug. 9; Sp. p. 2650; Gaz. vol. 157; p. 436.

Savory, Charles B., Fleet, England. Apparatus for rendering audible minor sounds. No. 951,969; Mar. 15; Sp. p. 3072; Gaz. vol. 152; p. 555.

Savoy, George F., Pewaukee, Wis. Ice-severing device. No. 956,604; May 3; Sp. p. 212; Gaz. vol. 154; p. 37.

Sawaya, Farris S., Baltimore, Md., assignor to J. W. Ivory, Philadelphia, Pa. Apparatus for making backings for artificial teeth. No. 969,986; Sept. 13; Sp. p. 1821; Gaz. vol. 158; p. 310.

Sawbridge, John. (See Sherwood, Walter, assignor.)

Sawdey, Howard L., Bingham Canyon, Utah. Rail. No. 960,713; June 7; Sp. p. 964; Gaz. vol. 155; p. 160.

Sawford, Frank, Sydney, Nova Scotia, Canada. Means for indicating and recording the calorific value of gases. No. 977,970; Dec. 6; Sp. p. 1194; Gaz. vol. 161; p. 191.

Sawin, George A., Lynn, Mass., assignor to General Electric Company. Electric meter. No. 974,192; Nov. 1; Sp. p. 199; Gaz. vol. 160; p. 33.

Alphabetical list of patentees—Continued.

Sawitzke, Richard F., E. J. Yates, and J. M. Adams, assignors to F. W. Adams, Chicago, Ill. Metal bedstead. No. 958,322; May 17; Sp. p. 4210; Gaz. vol. 154; p. 687.
Sawtelle, Eugene W., Sacramento, Cal. Water-heater. No. 950,516; Mar. 1; Sp. p. 119; Gaz. vol. 152; p. 19.
Sawyer, Burnside E., Fitchburg, Mass. Tumbling device. No. 947,855; Feb. 1; Sp. p. 164; Gaz. vol. 151; p. 27.
Sawyer, Burnside E., Fitchburg, Mass. Hair-pin box. No. 955,914; Apr. 26; Sp. p. 4825; Gaz. vol. 153; p. 854.
Sawyer, Eugene W., assignor of one-half to E. C. Baumann, Milwaukee, Wis. Gate-hinge. No. 978,063; Dec. 6; Sp. p. 1380; Gaz. vol. 161; p. 222.
Sawyer, Francis K. (See Cox, Albert G., assignor.)
Sawyer, Frank H., Casper, Wyo. Paper-fastener. No. 963,253; July 5; Sp. p. 585; Gaz. vol. 156; p. 81.
Sawyer, Frank M., Charlotte, N. C. Tile. No. 964,059; July 12; Sp. p. 2278; Gaz. vol. 156; p. 375.
Sawyer, Henry W., Huron, S. D. Rail-joint. No. 961,027; June 7; Sp. p. 1584; Gaz. vol. 155; p. 265.
Sawyer, Howard D., Revere, Mass. Downdraft heating apparatus. No. 951,703; Mar. 8; Sp. p. 2498; Gaz. vol. 152; p. 434.
Sawyer, John H., Lexington, Ky., assignor of one-half to J. N. Markey, West Union, W. Va. Hay-press. No. 968,496; Aug. 23; Sp. p. 5653; Gaz. vol. 157; p. 974.
Sawyer, Orren A., Lowell, Mass., assignor, by mesne assignments, to Thissell Company, Portland, Me. Stopping mechanism for looms. No. 968,083; Aug. 23; Sp. p. 4779; Gaz. vol. 157; p. 831.
Sawyer, Walter H., assignor of one-half to R. H. Battle, Denver, Colo. Menu-card holder. No. 970,399; Sept. 13; Sp. p. 2661; Gaz. vol. 158; p. 450.
Sawyer, William, Armstrong, British Columbia, Canada. Sash-balancing device. No. 978,400; Dec. 13; Sp. p. 2129; Gaz. vol. 161; p. 370.
Sax-Nicholls-Cohn Company. (See Nicholls, Moses, assignor.)
Saxe, Earl H., Lansdale, assignor to Chesterman and Streeter, Philadelphia, Pa. Bandage. No. 950,143; Feb. 22; Sp. p. 5016; Gaz. vol. 151; p. 882.
Saxon, Andrew L., Whitfield, Tex. Truck brake appliance. No. 969,149; Aug. 30; Sp. p. 7034; Gaz. vol. 157; p. 1224.
Saxton, Henry T. (See Fuller, William C., assignor.)
Saxton, Lionel D., New York, N. Y. Safety-razor. No. 951,456; Mar. 8; Sp. p. 2029; Gaz. vol. 152; p. 351.
Saxton, Lionel D., New York, N. Y. Safety-razor. No. 952,216; Mar. 15; Sp. p. 3534; Gaz. vol. 152; p. 636.
Saxton, Robert P., Oakland, Cal. Printing-machine. No. 951,489; Mar. 8; Sp. p. 2098; Gaz. vol. 152; p. 363.
Sayer, Robert C., Redland, Bristol, England. Automatic supply and heating water. No. 951,514; Mar. 8; Sp. p. 2140; Gaz. vol. 152; p. 371.
Sayer, Robert C., Bristol, England. Vehicle. No. 979,572; Dec. 27; Sp. p. 4663; Gaz. vol. 161; p. 818.
Sayles, John J., Denver, Colo. Chalk-holder. No. 978,064; Dec. 6; Sp. p. 1381; Gaz. vol. 161; p. 222.
Saylor, Benjamin F. A., Rome, assignor to Standard Turpentine and Pulp Company, Atlanta, Ga. Extracting turpentine and rosin. No. 945,612; Jan. 4; Sp. p. 1294; Gaz. vol. 150; p. 202.
Saylor, Frank D., West View, Pa. Device for holding and rotating hats. No. 950,406; Feb. 22; Sp. p. 5539; Gaz. vol. 151; p. 971.
Saylor, George W., Philadelphia, Pa. Mail-bag catching and delivering apparatus. No. 955,697; Apr. 19; Sp. p. 4346; Gaz. vol. 153; p. 750.
Saylor, George W., Philadelphia, Pa. Mail-bag catching and delivering apparatus. No. 965,753; July 26; Sp. p. 5942; Gaz. vol. 156; p. 1011.
Saylor, Harrie S., Buffalo, Minn. Wheel. No. 946,617; Jan. 18; Sp. p. 3592; Gaz. vol. 150; p. 604.
Sayre, Louis A., Madison, N. J. Gage for shingling-hatchets. No. 946,565; Jan. 18; Sp. p. 3485; Gaz. vol. 150; p. 586.
Sborigi, Guido V. (See Remmen and Sborigi.)
Scaife, Frank B., Philadelphia, Pa. Cuspidor-cabinet. No. 946,870; Jan. 18; Sp. p. 4189; Gaz. vol. 150; p. 690.
Scaife, Jamieson V., McComb, Miss. Gage-cock. No. 973,074; Oct. 18; Sp. p. 3443; Gaz. vol. 159; p. 596.
Scales, Otto C., administrator. (See Brown, George W.)
Scales, William S., Medford, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton-sealing device. No. 954,704; Apr. 12; Sp. p. 2163; Gaz. vol. 153; p. 378.
Scanlan, Edward T., Washington, D. C. Lantern. No. 971,567; Oct. 4; Sp. p. 126; Gaz. vol. 159; p. 24.
Scanlin, John. (See Naulty and Scanlin.)
Scanlon, John T., Hartford, Conn. Trolley-wire hanger. No. 959,076; May 24; Sp. p. 5785; Gaz. vol. 154; p. 969.
Scannell, Jeremiah M., *et al.* (See Frost, Walter E., assignor.)
Scaramuzza, Gino, assignor to Società Anonima per Frigorigeni e Motori "Motofrigor," Turin, Italy. Apparatus for the interchange of heat. No. 970,561; Sept. 20; Sp. p. 3026; Gaz. vol. 158; p. 527.
Scaramuzzi, Antony T., Paterson, N. J. Vehicle-wheel tire. No. 956,735; May 3; Sp. p. 505; Gaz. vol. 154; p. 81.
Scarborough, Henry, Sr. (See Krause, Hermann, assignor.)
Schaab, Frank L. (See Andreas and Schaab.)
Schaaf, Edward, *et al.* (See Martin, Stephen G., assignor.)
Schaaff, John T., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 966,954; Aug. 9; Sp. p. 2413; Gaz. vol. 157; p. 397.
Schaaff, John T., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 966,955; Aug. 9; Sp. p. 2417; Gaz. vol. 157; p. 397.
Schaaff, John T., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 966,956; Aug. 9; Sp. p. 2419; Gaz. vol. 157; p. 398.
Schaaff, John T., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 966,957; Aug. 9; Sp. p. 2423; Gaz. vol. 157; p. 398.
Schaaff, John T., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 972,255; Oct. 11; Sp. p. 1628; Gaz. vol. 159; p. 286.
Schaaf, John T., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 974,438; Nov. 1; Sp. p. 812; Gaz. vol. 160; p. 122.
Schaake, William, Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley-conductor clamp. No. 958,833; May 24; Sp. p. 5265; Gaz. vol. 154; p. 887.
Schaake, William, Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Hanger for electrical conductors. No. 958,834; May 24; Sp. p. 5266; Gaz. vol. 154; p. 884.
Schaal, Ernest A., Ankeny, assignor of one-half to H. W. Miller, Alleman, Iowa. Hinge for gable-doors. No. 973,073; Oct. 18; Sp. p. 3442; Gaz. vol. 159; p. 596.
Schaal, Frederick, near Staplehurst, Nebr. Frame for manure-spreaders. No. 949,601; Feb. 15; Sp. p. 3802; Gaz. vol. 151; p. 662.
Schaarschmidt, Alfred, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Orange sulfur dye and making same. No. 966,478; Aug. 9; Sp. p. 1344; Gaz. vol. 157; p. 239.
Schabad, Abraham-C. S., Berlin, Germany. Ready-reckoner. No. 972,650; Oct. 11; Sp. p. 2488; Gaz. vol. 159; p. 424.
Schachenmayr, Albert, assignor to Firm of C. Zeiss, Jena, Germany. Double telescope. No. 956,182; Apr. 26; Sp. p. 5426; Gaz. vol. 153; p. 950.
Schachner, Edward E., Denver, Colo. Sidewalk-light. No. 952,049; Mar. 15; Sp. p. 3226; Gaz. vol. 152; p. 581.
Schacht, Samuel, New York, N. Y. Door-lock. No. 971,314; Sept. 27; Sp. p. 4609; Gaz. vol. 158; p. 807.
Schachtschneider, Carl, Snohomish, Wash. Saw-set. No. 968,986; Aug. 30; Sp. p. 6700; Gaz. vol. 157; p. 1167.
Schad, Franz, West Hoboken, N. J. Switch-operating apparatus. No. 969,302; Sept. 6; Sp. p. 316; Gaz. vol. 158; p. 52.
Schade, Edmund A., assignor to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 955,556; Apr. 19; Sp. p. 4004; Gaz. vol. 153; p. 702.
Schade, Edmund A., assignor to The Stanley Rule & Level pany, New Britain, Conn. Plane. No. 955,557; Apr. 19; Sp. p. 4006; Gaz. vol. 153; p. 702.
Schade, Edmund A., assignor to The Stanley Rule & Level Company, New Britain, Conn. Bit-brace chuck. No. 967,837; Aug. 16; Sp. p. 4242; Gaz. vol. 157; p. 725.
Schade, George J., Sandusky, Ohio. Metal reinforcement for metal-reinforced concrete floors, &c. No. 946,987; Jan. 18; Sp. p. 4426; Gaz. vol. 150; p. 729.
Schade, George J., Sandusky, Ohio. Reinforcing structure. No. 947,044; Jan. 18; Sp. p. 4533; Gaz. vol. 150; p. 747.
Schadegg, Fred G. (See Spalding and Schadegg.)
Schadt, Howard E. B. (See Schadt, Preston B. and H. E. B.)
Schadt, Preston B. and H. E. B., Allentown, Pa. Transmission mechanism. No. 973,979; Oct. 25; Sp. p. 5364; Gaz. vol. 159; p. 933.
Schaefer, Casper C., Cambridge City, Ind. Heater. No. 962,864; June 28; Sp. p. 5533; Gaz. vol. 155; p. 967.
Schaefer, Charles B. A., New York, N. Y. Collar-fastener. No. 979,342; Dec. 20; Sp. p. 4163; Gaz. vol. 161; p. 718.
Schaefer, Fred, Seattle, Wash. Spring-winding machine. No. 949,306; Feb. 15; Sp. p. 3195; Gaz. vol. 151; p. 563.
Schaefer, Fred S., and W. D. Nance, North Yakima, Wash. Sign. No. 956,429; Apr. 26; Sp. p. 5935; Gaz. vol. 153; p. 1032.
Schaefer, Frederick J. (See Beyer, Emil, assignor.)
Schaefer, Fredrick G., Wausau, Wis. Hose-coupling. No. 954,348; Apr. 5; Sp. p. 1391; Gaz. vol. 153; p. 230.
Schaefer, George L., Brooklyn, N. Y. Phenol sulfonate of opium alkaloids. No. 963,254; July 5; Sp. p. 586; Gaz. vol. 156; p. 81.
Schaefer, Herman L., *et al.* (See Rapp, Louis P., assignor.)
Schaefer, John. (See Schaefer, Joseph A., assignor.)

Schaefer, Joseph A., assignor to J. Schaefer, Chicago, Ill. Electrical switchboard. No. 959,886; May 31; Sp. p. 7485; Gaz. vol. 154; p. 1265.
Schaefer, Joseph A., assignor to J. Schaefer, Chicago, Ill. Speed and circuit controlling apparatus for electric motors. No. 959,887; May 31; Sp. p. 7487; Gaz. vol. 154; p. 1265.
Schaefer, Joseph E., Jr., assignor to C. W. Fenner, Cleveland, Ohio. Spark-plug. No. 946,878; Jan. 18; Sp. p. 4207; Gaz. vol. 150; p. 692.
Schaefer Manufacturing Company. (See Stockham, William H., assignor.)
Schaefer, Pauline, Oakland, Cal. Tooth-crown. No. 959,395; May 24; Sp. p. 6422; Gaz. vol. 154; p. 1074.
Schaefer, Walter T., Los Angeles, and J. E. Steers, San Francisco, Cal. Fountain toilet-brush. No. 974,994; Nov. 8; Sp. p. 2093; Gaz. vol. 160; p. 341.
Schaeffer, Harry F. (See Cooper, George D., assignor.)
Schaeffer, Hiram, Reading, Pa. Switch-throwing mechanism. No. 967,981; Aug. 23; Sp. p. 4543; Gaz. vol. 157; p. 797.
Schaeffer, William G., assignor to Reading Standard Company, Reading, Pa. Motor-cycle drive mechanism. No. 965,950; Aug. 2; Sp. p. 208; Gaz. vol. 157; p. 36.
Schaeffer, William G., assignor to Reading Standard Company, Reading, Pa. Piston-coupling. No. 972,651; Oct. 11; Sp. p. 2490; Gaz. vol. 159; p. 424.
Schaefle, Levi, *et al.* (See Best, William N., assignor.)
Schaerer, Otto, Stuttgart, Germany. Carriage-guide for lathes. No. 972,574; Oct. 11; Sp. p. 2325; Gaz. vol. 159; p. 398.
Schafer, Charles F., Terre Haute, Ind. Refrigerator. No. 978,492; Dec. 13; Sp. p. 2323; Gaz. vol. 161; p. 401.
Schäfer, Emanuel, Dusseldorf, Germany. Mine-prop. No. 946,879; Jan. 18; Sp. p. 4208; Gaz. vol. 150; p. 693.
Schafer, Frank, Philadelphia, Pa. Variable-speed apparatus. No. 978,065; Dec. 6; Sp. p. 1382; Gaz. vol. 161; p. 222.
Schafer, John C. F., Mount Pulaski, Ill. Damper. No. 980,011; Dec. 27; Sp. p. 5595; Gaz. vol. 161; p. 967.
Schaffelke, Ernst L. J., Stolp, Germany. Nut-locking device. No. 975,642; Nov. 15; Sp. p. 3480; Gaz. vol. 160; p. 590.
Schaffer, Theodore A., New York, N. Y., assignor to Hydrex Felt & Engineering Company, Portland, Me. Waterproofing-shield for expansion-joints. No. 951,289; Mar. 8; Sp. p. 1673; Gaz. vol. 152; p. 296.
Schairer, Otto S., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical equalizer system. No. 977,554; Dec. 6; Sp. p. 316; Gaz. vol. 161; p. 47.
Schalkenbach, Robert N., Jersey City, N. J. Self-closing bottom-dumping bucket. No. 958,323; May 17; Sp. p. 4213; Gaz. vol. 154; p. 688.
Schalkle, Frank O., Redfield, S. D. Adjustable bench-tool. No. 960,415; June 7; Sp. p. 361; Gaz. vol. 155; p. 61.
Schaller, Otto, Steglitz, near Berlin, Germany. Producing bars, bands, tubes, wires, fibers, and the like of metal. No. 947,162; Jan. 18; Sp. p. 4754; Gaz. vol. 150; p. 783.
Schäller, Sigmund, Haddam, Conn. Combination cultivator and furrow-maker. No. 965,411; July 26; Sp. p. 5200; Gaz. vol. 156; p. 892.
Schäller, Sigmund, Haddam, Conn. Rotary harrow. No. 971,218; Sept. 27; Sp. p. 4433; Gaz. vol. 158; p. 777.
Schanck, Willard P., Avon, N. Y. Milk-pail. No. 978,401; Dec. 13; Sp. p. 2131; Gaz. vol. 161; p. 371.
Schandein, Harry, and M. P. Lind, Philadelphia, Pa. Folding display-box. No. 965,019; July 19; Sp. p. 4379; Gaz. vol. 156; p. 730.
Schandoney, Fred W., and W. J. Hall, Lind, Wash. Sprocket-wheel. No. 946,582; Jan. 18; Sp. p. 3512; Gaz. vol. 150; p. 592.
Schanfler, Albert, assignor of one-half to E. H. Mohr, Greensburg, Ind. Clamp for stovepipes. No. 972,652; Oct. 11; Sp. p. 2491; Gaz. vol. 159; p. 424.
Schantz, Edwin M., Cincinnati, Ohio, assignor, by mesne assignments, to Universal Recorder Manufacturing Company. Recording apparatus. No. 965,754; July 26; Sp. p. 5945; Gaz. vol. 156; p. 1012.
Schantz, Gustaf von, New Britain, Conn. Pneumatic supporting means. No. 966,864; Aug. 9; Sp. p. 2236; Gaz. vol. 157; p. 368.
Schantz, John A. (See Cappon and Schantz.)
Schantz, M. P., trustee. (See Traylor, Samuel W., assignor.)
Schanze, Henry C., Sr., Camden, N. J. Device for aerial navigation. No. 956,648; May 3; Sp. p. 307; Gaz. vol. 154; p. 50.
Schanzlin, William F., Lima, Ohio. Combined hay tedder and mower. No. 957,628; May 10; Sp. p. 2397; Gaz. vol. 154; p. 415.
Schaper, Jesse H., *et al.* (See Gregory, Joseph, assignor.)
Schär, Ferdinand, Lucerne, Switzerland. Foundation for buildings. No. 951,028; Mar. 1; Sp. p. 1155; Gaz. vol. 152; p. 189.
Scharf, John A., Richwood, Ohio. Bale-tie machine. No. 955,000; Apr. 12; Sp. p. 2842; Gaz. vol. 153; p. 483.
Scharf, John A., Richwood, Ohio. Driving-gear for automobiles. No. 975,290; Nov. 8; Sp. p. 2728; Gaz. vol. 160; p. 442.
Scharf, William H., Montreal, Quebec, Canada, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine. No. 945,051; Jan. 4; Sp. p. 90; Gaz. vol. 150; p. 16.
Scharf, William H., Montreal, Quebec, Canada, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine. No. 963,076; July 5; Sp. p. 101; Gaz. vol. 156; p. 18.
Scharf, William H., Montreal, Quebec, Canada, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine. No. 963,077; July 5; Sp. p. 105; Gaz. vol. 156; p. 19.
Scharlandt, Alexander, C. R., and O. J., San Francisco, Cal. Window-screen. No. 964,700; July 19; Sp. p. 3744; Gaz. vol. 156; p. 622.
Scharlandt, Charles R. (See Scharlandt, Alexander, C. R., and O. J.)
Scharlandt, Oscar J. (See Scharlandt, Alexander, C. R., and O. J.)
Scharmann, Henry C. J., Champion City, Mo. Fastener for vessel-tops. No. 968,606; Aug. 30; Sp. p. 5897; Gaz. vol. 157; p. 1039.
Scharr, John, Nelson, Wis. Electric-lighting device. No. 946,922; Jan. 18; Sp. p. 4310; Gaz. vol. 150; p. 707.
Schartow, Frank E., assignor to Barton Manufacturing Company, Racine, Wis. Snap-hook. No. 947,764; Jan. 25; Sp. p. 6095; Gaz. vol. 150; p. 1016.
Schartow, Frank E., assignor to Barton Manufacturing Company, Racine, Wis. Snap-hook. No. 968,084; Aug. 23; Sp. p. 4781; Gaz. vol. 157; p. 832.
Schartow, Frank E., and O. H. White, Racine, Wis., and W. H. White, Fargo, N. D. Portable heater. No. 966,058; Aug. 2; Sp. p. 468; Gaz. vol. 157; p. 75.
Schattner, Ernest, Ealing, England. Electric fusible cut-out. No. 948,296; Feb. 1; Sp. p. 1071; Gaz. vol. 151; p. 173.
Schattner, Ernest, London, England, assignor to General Electric Company. Controller. (Reissue.) No. 13,178; Dec. 6; Sp. p. 1525; Gaz. vol. 161; p. 245.
Schatz, Herman A. (See Schatz, John W., assignor.)
Schatz, Herman W., Cincinnati, assignor to The American Tool Works Company, Hamilton, Ohio. Variable-speed mechanism. No. 946,073; Jan. 11; Sp. p. 2358; Gaz. vol. 150; p. 391.
Schatz, Herman W., assignor to The American Tool Works Company, Cincinnati, Ohio. Variable-speed mechanism. No. 948,025; Feb. 1; Sp. p. 511; Gaz. vol. 151; p. 82.
Schatz, Herman W., assignor to The American Tool Works Company, Cincinnati, Ohio. Variable-speed mechanism. No. 952,050; Mar. 15; Sp. p. 3227; Gaz. vol. 152; p. 581.
Schatz, Herman W., assignor to The American Tool Works Company, Cincinnati, Ohio. Variable-speed mechanism. No. 971,219; Sept. 27; Sp. p. 4436; Gaz. vol. 158; p. 777.
Schatz, John W., assignor of one-half to H. A. Schatz, Chappaque, N. Y. Making hollow metallic balls. No. 955,698; Apr. 19; Sp. p. 4348; Gaz. vol. 153; p. 750.
Schau, William, Kalamazoo, Mich. Tire-setter. No. 948,637; Feb. 8; Sp. p. 1819; Gaz. vol. 151; p. 313.
Schau, William, Kalamazoo, Mich. Tire-tightener or tire-setter. No. 948,638; Feb. 8; Sp. p. 1824; Gaz. vol. 151; p. 313.
Schaub, Anthony, *et al.* (See Snowden, Rene R., assignor.)
Schaub, Henry A., Kearney, Nebr. Draft-equalizer. No. 961,649; June 14; Sp. p. 2908; Gaz. vol. 155; p. 503.
Schaub, Karl, Kansas City, Mo. Pocket cash-register. No. 952,949; Mar. 22; Sp. p. 5091; Gaz. vol. 152; p. 914.
Schaubert, George J., Chicago, Ill. Multiplier for cameras. No. 967,569; Aug. 16; Sp. p. 3698; Gaz. vol. 157; p. 636.
Schauer, Oliver V., assignor of two-thirds to E. N. Price, Pittsburg, Pa. Attachment for type-writers. No. 954,470; Apr. 12; Sp. p. 1651; Gaz. vol. 153; p. 299.
Schauer, Sherman C., and P. L. Brockardt, assignors, by mesne assignments, to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Gearing. No. 978,221; Dec. 13; Sp. p. 1741; Gaz. vol. 161; p. 306.
Schauman, Bror M., assignor of one-third to J. Luxenburg and one-third to B. Schlegel, Astoria, N. Y. Polishing device. No. 949,045; Feb. 15; Sp. p. 2675; Gaz. vol. 151; p. 476.
Schaupp, Charles F., Wilson, Minn. Earthworking-machine. No. 974,526; Nov. 1; Sp. p. 1037; Gaz. vol. 160; p. 155.
Scheble, Eugene S., Cleburne, Tex., assignor of one-half to F. Q. Rast, Boston, Mass. Coin-controlled machine. No. 969,728; Sept. 6; Sp. p. 1217; Gaz. vol. 158; p. 197.
Schebler, George M., assignor to Wheeler & Schebler, Indianapolis, Ind. Carbureter. No. 971,689; Oct. 4; Sp. p. 371; Gaz. vol. 159; p. 65.
Schebler, George M., assignor to Wheeler & Schebler, Indianapolis, Ind. Carbureter. No. 971,862; Oct. 4; Sp. p. 751; Gaz. vol. 159; p. 130.
Schechter, Lazar. (See Tichomiroff and Schechter.)
Schedin, Peter, Chicago, Ill. Truck. No. 953,862; Apr. 5; Sp. p. 361; Gaz. vol. 153; p. 65.
Scheeffer, Gustave A., Fort Wayne, Ind., assignor to General Electric Company. Electric meter. No. 950,079; Feb. 22; Sp. p. 4889; Gaz. vol. 151; p. 860.

Alphabetical list of patentees—Continued.

Scheekman, Louis, St. Paul, Minn. Banana-carrier. No. 947,354; Jan. 25; Sp. p. 5228; Gaz. vol. 150; p. 880.
Scheele, Albert C., Butte, Mont. Thill-coupling. No. 957,002; May 3; Sp. p. 1094; Gaz. vol. 154; p. 171.
Scheer, Dan, Madison, Nebr. Draft-equalizer. No. 947,203; Jan. 18; Sp. p. 4835; Gaz. vol. 150; p. 798.
Scheer, Peter A. E., Hamburg, Germany. Mold for making cigar-bunches. No. 949,845; Feb. 22; Sp. p. 4319; Gaz. vol. 151; p. 778.
Scheib, Harry, Philadelphia, and W. A. Austin, Wayne, assignors to Baldwin Locomotive Works, Philadelphia, Pa. Locomotive. No. 979,208; Dec. 20; Sp. p. 3890; Gaz. vol. 161; p. 673.
Scheib, John. (See Bausch and Scheib.)
Scheib, Joseph J., Pittsburg, and J. G. Garbart, Ingram, Pa. Fifth-wheel for automobiles. No. 948,829; Feb. 8; Sp. p. 2230; Gaz. vol. 151; p. 378.
Scheibe, Harold M. (See Jackson and Scheibe.)
Scheibe, Harold M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay-switch. No. 959,613; May 31; Sp. p. 6895; Gaz. vol. 154; p. 1173.
Scheiber, Frederick C., New Douglas, Ill. Device for making concrete roofing-tiles. No. 969,410; Sept. 6; Sp. p. 550; Gaz. vol. 158; p. 88.
Scheibner, Emil, Philadelphia, Pa. Music-leaf turner. No. 970,400; Sept. 13; Sp. p. 2662; Gaz. vol. 158; p. 450.
Scheie, Thorger, Spy Hill, Saskatchewan, Canada. Extension-rim for traction-engine wheels. No. 954,214; Apr. 5; Sp. p. 1117; Gaz. vol. 153; p. 186.
Scheie, Thorger, Spy Hill, Saskatchewan, Canada. Extension-rim for traction-engine wheels. No. 962,672; June 28; Sp. p. 5141; Gaz. vol. 155; p. 899.
Schell, Frank R., New York, N. Y. Submarine signal device. No. 955,359; Apr. 19; Sp. p. 3595; Gaz. vol. 153; p. 635.
Schell, Rufus, Patton, Mo. Corn-shocker. No. 949,718; Feb. 15; Sp. p. 4021; Gaz. vol. 151; p. 700.
Schellenberg, Harry L., Detroit, Mich. Disinfector. No. 961,650; June 14; Sp. p. 2910; Gaz. vol. 155; p. 503.
Schelling, Alexander. (See Peterson and Schelling.)
Schelling, Oscar. (See Phillips and Schelling.)
Schelp, George H. (See Krueger, Helmuth A., assignor.)
Schelter, George G., assignor to Empire Last Works, Rochester, N. Y. Combined last-support and last-unlocking device. No. 949,160; Feb. 15; Sp. p. 2905; Gaz. vol. 151; p. 515.
Schemmel, Lewis T., Dyersville, and C. L. Besler, Hopkinton, Iowa. Litter-carrier. No. 948,554; Feb. 8; Sp. p. 1641; Gaz. vol. 151; p. 286.
Schemmel, Robert C., assignor to Backstay Machine and Leather Company, Union City, Ind. Leather-working die. No. 958,324; May 17; Sp. p. 4216; Gaz. vol. 154; p. 688.
Schemnitzky, Carl von, Vienna, Austria-Hungary. Pencil. No. 948,535; Feb. 8; Sp. p. 1587; Gaz. vol. 151; p. 280.
Schenck, Charles, assignor to Transportation Appliance Corporation, Chicago, Ill. Door-check. No. 972,784; Oct. 11; Sp. p. 2756; Gaz. vol. 159; p. 469.
Schenck, Eisengiesserei & Maschinenfabrik, Gesellschaft mit beschränkter Haftung, Carl. (See Darmstädter, Georg, assignor.)
Schenck, Leon H., Schenectady, N. Y. Means for automatically varying, proportionally to the load, the pneumatic application of friction-brakes. No. 976,000; Nov. 15; Sp. p. 4196; Gaz. vol. 160; p. 711.
Schenck, Martin B., and J. A. Johnson, assignors to The M. B. Schenck Company, Meriden, Conn. Caster. No. 968,424; Aug. 23; Sp. p. 5502; Gaz. vol. 157; p. 948.
Schenck, Murray, assignor to The Miami Cycle & Manufacturing Company, Middletown, Ohio. Spring-fork. No. 948,743; Feb. 8; Sp. p. 2044; Gaz. vol. 151; p. 349.
Schenk, Julius, East Cleveland, Ohio. Expanding bullet. No. 948,148; Feb. 1; Sp. p. 760; Gaz. vol. 151; p. 125.
Schenk, Nicholas, St. Louis, Mo. Vehicle-wheel. No. 950,407; Feb. 22; Sp. p. 5541; Gaz. vol. 151; p. 971.
Schenkein, Samuel. (See Pusterla, Attilio, assignor.)
Schepper, Adam, and E. Covert, Bay City, Mich. Automobile-radiator. No. 967,248; Aug. 16; Sp. p. 3042; Gaz. vol. 157; p. 526.
Scherer, Henry G., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Refrigerating apparatus. No. 948,101; Feb. 1; Sp. p. 670; Gaz. vol. 151; p. 109.
Scherer, William P., assignor to M. A. Carroll, Buffalo, N. Y. Toasting and broiling pan. No. 965,755; July 26; Sp. p. 5958; Gaz. vol. 156; p. 1012.
Scherf, Georg, Sonneberg, Germany. Doll-eyes. No. 979,573; Dec. 27; Sp. p. 4664; Gaz. vol. 161; p. 819.
Scherf, Theodore, and H. W. Merrick, Cleveland, Ohio. Vehicle-chock. No. 945,613; Jan. 4; Sp. p. 1296; Gaz. vol. 150; p. 202.
Scherfenberg, Albert F. (See Rohrbacher, Charles A., assignor.)
Scherl Monorail Company. (See Scherl, Richard, assignor.)
Scherl, Richard, Berlin, Germany, assignor to Scherl Monorail Company, Jersey City, N. J. Single-track vehicle. No. 959,077; May 24; Sp. p. 5786; Gaz. vol. 154; p. 970.
Scherling, Rudolph C., assignor to H. E. & J. E. Bullock, Chicago, Ill. Cotton-harvester. No. 952,688; Mar. 22; Sp. p. 4545; Gaz. vol. 152; p. 826.
Schermack, Joseph J., Chicago, Ill., assignor to Detroit Mailing Machine Company. Envelop sealing and stamping machine. No. 961,465; June 14; Sp. p. 2514; Gaz. vol. 155; p. 442.
Schermerhorn, Herschel A., Shabbona Grove, Ill. Corn-husker. No. 964,187; July 12; Sp. p. 2526; Gaz. vol. 156; p. 416.
Scherrer, Franz, Wilmersdorf, near Berlin, Germany. Fire-escape. No. 956,183; Apr. 26; Sp. p. 5427; Gaz. vol. 153; p. 950.
Scherzer, Albert H., Chicago, Ill. Bascule-bridge. No. 963,399; July 5; Sp. p. 877; Gaz. vol. 156; p. 129.
Scherzer, Albert H., Chicago, Ill. Locking means for bascule-bridges. No. 968,987; Aug. 30; Sp. p. 6701; Gaz. vol. 157; p. 1167.
Scherzer, Albert H., Chicago, Ill. Center lock for bascule-bridges. No. 968,988; Aug. 30; Sp. p. 6704; Gaz. vol. 157; p. 1167.
Scherzer, Albert H., Chicago, Ill. Rear-end lock for bascule-bridges. No. 978,493; Dec. 13; Sp. p. 2325; Gaz. vol. 161; p. 401.
Scherzinger, Lawrence F., assignor to The Tengwall Company, Chicago, Ill. Loose-leaf binder. No. 974,831; Nov. 8; Sp. p. 1694; Gaz. vol. 160; p. 285.
Schestopol, Benjamin, New York, N. Y. Lock for bicycle or other wheels. No. 977,228; Nov. 29; Sp. p. 6956; Gaz. vol. 160; p. 1182.
Scheubeck, John, Chicago, Ill. Wind-motor. No. 979,098; Dec. 20; Sp. p. 3639; Gaz. vol. 161; p. 633.
Scheuer, Charles H., *et al.* (See Minion, George, assignor.)
Scheuerman, Henry E., Otis, Kans. Pump. No. 972,653; Oct. 11; Sp. p. 2491; Gaz. vol. 159; p. 425.
Scheven, Heinrich, Dusseldorf, Germany. Self-regulating pumping plant. No. 946,787; Jan. 18; Sp. p. 3970; Gaz. vol. 150; p. 660.
Schewczik, Silvio A., Vienna, Austria-Hungary. Spring-tire for wheels. No. 967,249; Aug. 16; Sp. p. 3043; Gaz. vol. 157; p. 526.
Schick, Karl, Griesheim-on-the-Main, assignor to Chemische Fabrik Griesheim Electron, Frankfort-on-the-Main, Germany. Catalytic body and making same. No. 971,149; Sept. 27; Sp. p. 4277; Gaz. vol. 158; p. 753.
Schickerling, Alfred, New York, N. Y. Card-case. No. 976,605; Nov. 22; Sp. p. 5575; Gaz. vol. 160; p. 943.
Schickerling, Conrad, East Orange, N. J. Non-refillable bottle. No. 960,416; June 7; Sp. p. 362; Gaz. vol. 155; p. 61.
Schiel, Adolf, *et al.* (See Altrichter, Johann, assignor.)
Schield, Henry C., Merrill, Wis. Fish-hook. No. 979,891; Dec. 27; Sp. p. 5361; Gaz. vol. 161; p. 927.
Schien, Andrew E. (See Keithley and Schien.)
Schies, John, Anderson, Ind., assignor to International Aerial Power Company, Phoenix, Ariz. Wind-motor. No. 974,995; Nov. 8; Sp. p. 2095; Gaz. vol. 160; p. 341.
Schiff, Herman R., Chicago, Ill. Milk-bottle. No. 968,425; Aug. 23; Sp. p. 5504; Gaz. vol. 157; p. 949.
Schiff, Sigmund, New York, N. Y. Check-perforator. No. 962,167; June 21; Sp. p. 4053; Gaz. vol. 155; p. 704.
Schild, Georg F. (See Konrad and Schild.)
Schilde, Paul, Hersfeld, Germany. Apparatus for moistening yarns. No. 955,001; Apr. 12; Sp. p. 2849; Gaz. vol. 153; p. 483.
Schilderink, John J., Cincinnati, Ohio. Shoulder-brace. No. 945,200; Jan. 4; Sp. p. 406; Gaz. vol. 150; p. 67.
Schildhaus, Gustav, and C. Condrea, Campina, Roumania. Obtaining sulfurous acid from acid sludge. No. 956,184; Apr. 26; Sp. p. 5429; Gaz. vol. 153; p. 950.
Schilling, George. (See Nawn, John P., assignor.)
Schilling, Johannes, Colonie Grunewald, near Berlin, Germany. Producing an amorphous tungsten powder. No. 950,869; Mar. 1; Sp. p. 862; Gaz. vol. 152; p. 138.
Schilling, Johannes, Colonie Grunewald, near Berlin, Germany. Balloon. No. 954,215; Apr. 5; Sp. p. 1119; Gaz. vol. 153; p. 186.
Schilling, Johannes, Halensee, near Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Berlin, Germany. Producing tantalum. No. 958,180; May 17; Sp. p. 3771; Gaz. vol. 154; p. 637.
Schilling, Rudolf, Dahlem, near Berlin, Germany. Apparatus for removing fat from effluents. No. 975,081; Nov. 8; Sp. p. 2272; Gaz. vol. 160; p. 371.
Schilling, Rudolph, Oakland, Cal. Can-filling mechanism. No. 952,145; Mar. 15; Sp. p. 3404; Gaz. vol. 152; p. 613.
Schillo, Ernest G., Pittsburg, Pa. Boring-machine. No. 949,689; Feb. 15; Sp. p. 3960; Gaz. vol. 151; p. 690.
Schilz, Frank, assignor to H. Loewenbach, Milwaukee, Wis. Paper-feeding device. No. 974,923; Nov. 8; Sp. p. 1913; Gaz. vol. 160; p. 316.
Schimanski, Frank A., Racine, Wis. Device for removing phonographic disk records. No. 972,028; Oct. 4; Sp. p. 1139; Gaz. vol. 159; p. 191.
Schimmel, Franz, Berlin, Germany. Linotype-machine. No. 953,237; Mar. 29; Sp. p. 5711; Gaz. vol. 152; p. 1037.
Schimmel, Fridolin, Faribault, Minn. Sandpapering-machine. No. 959,614; May 31; Sp. p. 6897; Gaz. vol. 154; p. 1174.

Schimmel, Max. (See Solfrian, Heinrich W., assignor.)
Schimmel, William G., Schmölln, Germany. Ivory button. No. 968,085; Aug. 23; Sp. p. 4783; Gaz. vol. 157; p. 832.
Schimming, Georg, Berlin, Germany. Internal-combustion engine. No. 968,695; Aug. 30; Sp. p. 6129; Gaz. vol. 157; p. 1070.
Schimpf, Frank, St. Louis, Mo. Combined cleat and rosette. No. 978,941; Dec. 20; Sp. p. 3265; Gaz. vol. 161; p. 579.
Schindler, Charles E., Coldwater, Ohio. Fishing appliance. No. 963,654; July 5; Sp. p. 1383; Gaz. vol. 156; p. 215.
Schinner, Joseph A., Greenfield, Ohio. Mail-bag catcher. No. 950,870; Mar. 1; Sp. p. 863; Gaz. vol. 152; p. 138.
Schinscholl, Erich. (See Gilfillan and Schinscholl.)
Schirack, John A. (See Ramley and Schirack.)
Schirmer, Martin H., and J. Lehr, Rochester, N. Y. Pressing-machine. No. 946,401; Jan. 11; Sp. p. 3144; Gaz. vol. 150; p. 506.
Schirmer, Theodor F., and M. C. Stern, assignors to The Egry Autographic Register Company, Dayton, Ohio. Autographic register. No. 949,006; Feb. 15; Sp. p. 2584; Gaz. vol. 151; p. 464.
Schirrmacher, Theodor J. C., Oakland, Cal. Door-opening device. No. 959,615; May 31; Sp. p. 6899; Gaz. vol. 154; p. 1174.
Schisler, Frank J., Winthrop, Minn. Trap-nest. No. 950,679; Mar. 1; Sp. p. 455; Gaz. vol. 152; p. 74.
Schitka, Ferdinand, assignor of one-half to W. Kolischer, Vienna, Austria-Hungary. Apparatus for heating flat-irons. No. 959,616; May 31; Sp. p. 6900; Gaz. vol. 154; p. 1174.
Schlabs, Franz, assignor to K. Schlabs, Magdeburg, and A. Loburg, Magdeburg-Salzquelle, Germany. Dish-cleaner. No. 947,460; Jan. 25; Sp. p. 5474; Gaz. vol. 150; p. 915.
Schlabs, Karl, *et al.* (See Schlabs, Franz, assignor.)
Schlachter, Carl A., Rockwell City, Iowa. Hydraulic clutch. No. 952,217; Mar. 15; Sp. p. 3536; Gaz. vol. 152; p. 636.
Schlachter, Robert H. (See Elliott and Schlachter.)
Schlachter, Robert H. (See Elliott, Schlachter, and Tolles.)
Schlafly, Julius H., assignor to The Berger Manufacturing Company, Canton, Ohio. Metallic case for coffins. No. 962,590; June 28; Sp. p. 4983; Gaz. vol. 155; p. 872.
Schlafly, Julius H., assignor to The Canton Culvert Company, Canton, Ohio. Culvert. No. 973,708; Oct. 25; Sp. p. 4822; Gaz. vol. 159; p. 839.
Schlafly, Julius H., assignor to The Canton Culvert Company, Canton, Ohio. Culvert. No. 978,222; Dec. 13; Sp. p. 1742; Gaz. vol. 161; p. 306.
Schlagel, Jacob. (See Marshall and Schlagel.)
Schlagle, Charles E., Wolcott, and M. F. Hodge, Leavenworth, Kans. Trolley-retriever. No. 954,139; Apr. 5; Sp. p. 912; Gaz. vol. 153; p. 159.
Schlared, Charles, assignor of one-half to M. H. Neil, Columbus, Ohio. Fence-post. No. 947,163; Jan. 18; Sp. p. 4755; Gaz. vol. 150; p. 784.
Schlarf, Henry, Maple Rapids, Mich. Potato-fork. No. 971,863; Oct. 4; Sp. p. 752; Gaz. vol. 159; p. 130.
Schlarmann, Theodore H., Breese, Ill. Traveling scaffold. No. 950,350; Feb. 22; Sp. p. 5437; Gaz. vol. 151; p. 953.
Schlarmann, Theodore H., Breese, Ill. Thill-iron. No. 957,107; May 3; Sp. p. 1298; Gaz. vol. 154; p. 207.
Schlater, Thomas W., Plaquemine, La. Draft-harness. No. 970,119; Sept. 13; Sp. p. 2091; Gaz. vol. 158; p. 356.
Schlatter, Rudolph, assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-turbine. No. 965,412; July 26; Sp. p. 5202; Gaz. vol. 156; p. 892.
Schlegel, Bernhard, *et al.* (See Schauman, Bror M., assignor.)
Schlegel, Daniel, Dryville, Pa. Reversing gas-engine. No. 964,564; July 19; Sp. p. 3362; Gaz. vol. 156; p. 574.
Schlegel, Fred, Hersey, Mich. Fence-post. No. 945,052; Jan. 4; Sp. p. 94; Gaz. vol. 150; p. 17.
Schleicher, John C., Mount Vernon, N. Y. Closure for vessels. No. 948,347; Feb. 8; Sp. p. 1182; Gaz. vol. 151; p. 217.
Schleicher, John C., Mount Vernon, N. Y. Tire for vehicles. No. 961,374; June 14; Sp. p. 2333; Gaz. vol. 155; p. 412.
Schleicher, John C., Mount Vernon, N. Y. Closure for vessels. No. 968,696; Aug. 30; Sp. p. 6130; Gaz. vol. 157; p. 1070.
Schleicher, John C., Mount Vernon, N. Y. Tread for pneumatic tires. No. 974,602; Nov. 1; Sp. p. 1196; Gaz. vol. 160; p. 183.
Schleicher, William A., Cleveland, Ohio. Snap-hook. No. 954,216; Apr. 5; Sp. p. 1120; Gaz. vol. 153; p. 186.
Schleicher, William A., Cleveland, Ohio. Snap-hook. No. 960,041; May 31; Sp. p. 7867; Gaz. vol. 154; p. 1321.
Schleicher, William A., Cleveland, Ohio. Snap-hook. No. 963,475; July 5; Sp. p. 1025; Gaz. vol. 156; p. 155.
Schleicher, William A., Cleveland, Ohio. Hame and trace connector. No. 967,570; Aug. 16; Sp. p. 3701; Gaz. vol. 157; p. 637.
Schleicher, William A., Cleveland, Ohio. Drop terret and hook. No. 973,980; Oct. 25; Sp. p. 5367; Gaz. vol. 159; p. 934.
Schleicher, William A., Cleveland, Ohio. Snap-hook. No. 978,656; Dec. 13; Sp. p. 2694; Gaz. vol. 161; p. 458.
Schlemmer, Henry, Effingham, Ill. Piano-violin. No. 953,103; Mar. 29; Sp. p. 5427; Gaz. vol. 152; p. 994.
Schlemmer, Henry, Effingham, Ill. String-fingering device. No. 953,104; Mar. 29; Sp. p. 5437; Gaz. vol. 152; p. 994.
Schlemmer, Henry, Effingham, Ill. Fretting device for stringed instruments. No. 974,094; Oct. 25; Sp. p. 5609; Gaz. vol. 159; p. 972.
Schlemmer, Henry, Effingham, Ill. Tuning device for stringed instruments. No. 974,095; Oct. 25; Sp. p. 5611; Gaz. vol. 159; p. 972.
Schlemmer, Oliver, Cincinnati, Ohio. Valve. No. 973,075; Oct. 18; Sp. p. 3444; Gaz. vol. 159; p. 597.
Schlesinger, Adolph, assignor of one-half to L. Wertheimer, St. Louis, Mo. Shoe. No. 952,083; Mar. 15; Sp. p. 3283; Gaz. vol. 152; p. 591.
Schlesinger, Firm of Martin. (See Noack, Gerhard, assignor.)
Schlesinger, Max, Albany, N. Y. Guard for berths. No. 945,421; Jan. 4; Sp. p. 903; Gaz. vol. 150; p. 140.
Schlessinger, Hymen. (See Levi and Schlessinger.)
Schlessinger, Maurice. (See Levi and Schlessinger.)
Schlie, William, Deerfield, Ill. Hay-rack. No. 978,785; Dec. 13; Sp. p. 2952; Gaz. vol. 161; p. 499.
Schliecker, August H. F., Vinita, Okla. Sounding toy. No. 949,551; Feb. 15; Sp. p. 3713; Gaz. vol. 151; p. 646.
Schlieder, Augustus E., Buffalo, N. Y., assignor to Monarch Acetylene Gas Company, Omaha, Nebr. Carbid-feed mechanism. No. 965,756; July 26; Sp. p. 5960; Gaz. vol. 156; p. 1013.
Schlig, John, Chicago, Ill. Transmission system. No. 957,263; May 10; Sp. p. 1657; Gaz. vol. 154; p. 292.
Schloemilch, Wilhelm, assignor to Gesellschaft für Drahtlose Telegraphie M. B. H., Berlin, Germany. Receiver for wireless telegraphy. No. 958,181; May 17; Sp. p. 3773; Gaz. vol. 154; p. 638.
Schloemilch, Wilhelm, Berlin, and P. F. Pichon, Südende, near Berlin, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Wave-detector for wireless telegraphy. No. 962,262; June 21; Sp. p. 4247; Gaz. vol. 155; p. 735.
Schloerb, Albert P. (See Pfefferkorn, Schloerb, and Hammetter.)
Schlomann, Alfred, Munich, assignor to Vakuum-Pressgut Gesellschaft m. b. H., Berlin, Germany. Manufacturing substances of high resistance. No. 955,360; Apr. 19; Sp. p. 3598; Gaz. vol. 153; p. 635.
Schloss, Benjamin. (See Mackin, Francis J., assignor.)
Schloss & Co., Joseph W. (See Schloss, Joseph W., assignor.)
Schloss, Henry W., and H. Hawley, New York, N. Y., assignors to Castle Braid Company. Braid lapping or bolting machine. No. 978,657; Dec. 13; Sp. p. 2696; Gaz. vol. 161; p. 459.
Schloss, Joseph W., assignor to J. W. Schloss & Co., New York, N. Y. Garment-supporter. No. 970,120; Sept. 13; Sp. p. 2092; Gaz. vol. 158; p. 356.
Schloss, Joseph W., assignor to J. W. Schloss & Co., New York, N. Y. Garment-supporter. No. 970,121; Sept. 13; Sp. p. 2094; Gaz. vol. 158; p. 356.
Schlossberg, Israel, Charlottenburg, Germany. Producing acid and fire proof bodies. No. 961,651; June 14; Sp. p. 2913; Gaz. vol. 155; p. 504.
Schlosser, John, Wilmington, Del., and A. W. Christian, Philadelphia, Pa. Bending-machine. No. 950,212; Feb. 22; Sp. p. 5171; Gaz. vol. 151; p. 907.
Schlosser, Philip. (See Cook, George E., assignor.)
Schlosser, Robert J., assignor to M. W. Jamieson, Warren, Pa. Vise. No. 962,983; June 28; Sp. p. 5749; Gaz. vol. 155; p. 1006.
Schlueter, Adolph H., Oakland, Cal. Door. No. 963,948; July 12; Sp. p. 2035; Gaz. vol. 156; p. 335.
Schlueter, Ferdinand. (See Schlueter, Karl M. and F.)
Schlueter, Frederick A., St. Louis, Mo. Aeronautic safety appliance. No. 967,571; Aug. 16; Sp. p. 3702; Gaz. vol. 157; p. 637.
Schlueter, Henry H., Canastota, S. D. Wrench. No. 973,218; Oct. 18; Sp. p. 3788; Gaz. vol. 159; p. 647.
Schlueter, Karl M. and F., New York, N. Y. Plate-holder for printing-presses. No. 979,035; Dec. 20; Sp. p. 3495; Gaz. vol. 161; p. 612.
Schluns, Frederick A., Revere, Mass. Locking device for rotative parts. No. 956,605; May 3; Sp. p. 213; Gaz. vol. 154; p. 37.
Schluss, Max, Bredeney, near Essen-on-the-Ruhr, Germany. Producing a caoutchouc-like elastic substance. No. 960,116; May 31; Sp. p. 8001; Gaz. vol. 154; p. 1345.
Schluter, William, Parkersburg, Iowa. Draft-equalizer. No. 962,056; June 21; Sp. p. 3785; Gaz. vol. 155; p. 664.
Schmaal, Gustav, and J. B. Wicks, Paulsboro, N. J. Valve. No. 973,819; Oct. 25; Sp. p. 5044; Gaz. vol. 159; p. 877.
Schmahl, Paul, Elberfeld, Germany. Locking means for doors and the like. No. 963,655; July 5; Sp. p. 1385; Gaz. vol. 156; p. 215.
Schmale, Paul, Darmstadt, Germany. Machine for manufacturing tubes from metal strips. No. 950,730; Mar. 1; Sp. p. 585; Gaz. vol. 152; p. 92.

Alphabetical list of patentees—Continued.

Schmalland, Hans, Steglitz, near Berlin, assignor to Deutsche Gasgluhlicht Aktien Gesellschaft, Berlin, Germany. Means for packing incandescent mantles. No. 955,361; Apr. 19; Sp. p. 3600; Gaz. vol. 153; p. 635.

Schmaltz, Friedrich, Offenbach-on-the-Main, Germany. Apparatus for grinding twist-drills, borers, and the like. No. 965,952; Aug. 2; Sp. p. 210; Gaz. vol. 157; p. 37.

Schmalzried, Charles J., Knoxville, Pa. Automobile-lamp. No. 949,846; Feb. 22; Sp. p. 4321; Gaz. vol. 151; p. 778.

Schmeisser, Louis, Suhl, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Automatic firearm. No. 956,430; Apr. 26; Sp. p. 5937; Gaz. vol. 153; p. 1033.

Schmeisser, Louis, Suhl, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Automatic firearm. No. 956,431; Apr. 26; Sp. p. 5942; Gaz. vol. 153; p. 1033.

Schmelczer, Anton, Elizabeth, S. Niedermayer and A. J. Dirner, Newark, N. J. Pulley-line support. No. 966,129; Aug. 2; Sp. p. 596; Gaz. vol. 157; p. 98.

Schmeling, William H., Albion, Wis. Milk-can shield. No. 978,337; Dec. 13; Sp. p. 1996; Gaz. vol. 161; p. 348.

Schmeykal, Walter A., Goshen, Ind. Automatic faucet. No. 961,538; June 14; Sp. p. 2690; Gaz. vol. 155; p. 466.

Schmid, Frederick C., and C. F. Dewey, assignors to C. P. Goerz American Optical Company, New York, N. Y. Photographic-camera shutter. No. 975,464; Nov. 15; Sp. p. 3090; Gaz. vol. 160; p. 528.

Schmid, Gustav. (See Meyer-Zimmerli, Ernst, assignor.)

Schmid, Gustav A., assignor of one-half to C. E. Ulrich, Peoria, Ill. Twine-carrier. No. 949,963; Feb. 22; Sp. p. 4596; Gaz. vol. 151; p. 820.

Schmid, Henri, Mülhausen, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing brown, olive, and green shades on the fiber. No. 963,656; July 5; Sp. p. 1386; Gaz. vol. 156; p. 216.

Schmid, Jacob, Detroit, Mich. Level. No. 956,830; May 3; Sp. p. 722; Gaz. vol. 154; p. 114.

Schmid, Lawrence F., St. Louis, Mo. Combination brush and mop attachment. No. 954,217; Apr. 5; Sp. p. 1121; Gaz. vol. 153; p. 186.

Schmidmer, Edward, Nuremberg, Germany, assignor of one-half to B. Wilmsen, Philadelphia, Pa. Connection for wires or conductors. No. 947,601; Jan. 25; Sp. p. 5797; Gaz. vol. 150; p. 963.

Schmidmer, Georg E., Nuremberg, Germany. Culinary scraper and scourer. No. 976,606; Nov. 22; Sp. p. 5576; Gaz. vol. 160; p. 943.

Schmidt, Albert, Leipzig, Germany. Spool of pasteboard, cardboard, or similar material. No. 974,603; Nov. 1; Sp. p. 1197; Gaz. vol. 160; p. 183.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Terminal-fastening. No. 976,100; Nov. 15; Sp. p. 4401; Gaz. vol. 160; p. 746.

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 976,101; Nov. 15; Sp. p. 4402; Gaz. vol. 160; p. 746.

Schmidt, Albert F., Orange, N. J., and W. T. Jefferson, Evanston, Ill., assignors to Belding Bros. & Company. Advertising and display apparatus. No. 966,606; Aug. 9; Sp. p. 1659; Gaz. vol. 157; p. 283.

Schmidt, Albrecht, and E. Bryk, Höchst-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dye and making same. No. 947,030; Jan. 18; Sp. p. 4517; Gaz. vol. 150; p. 744.

Schmidt, Albrecht, and E. Bryk, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dye and making. No. 959,617; May 31; Sp. p. 6901; Gaz. vol. 154; p. 1174.

Schmidt, Albrecht, and E. Bryk, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Red halogenized dye and making. No. 963,813; July 12; Sp. p. 1758; Gaz. vol. 156; p. 291.

Schmidt, Albrecht, and K. Thiess, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Thioindigo vat dye. No. 955,699; Apr. 19; Sp. p. 4350; Gaz. vol. 153; p. 751.

Schmidt, Albrecht, and G. Kränzlein, assignors to Farbwerke vorm. Meister, Lucius & Brüning, Höchst-on-the Main, Germany. Urea of the anthraquinone series and making same. No. 958,325; May 17; Sp. p. 4218; Gaz. vol. 154; p. 689.

Schmidt, Albrecht, E. Bryk, and R. Voss, assignors to Farbwerke vorm. Meister Lucius & Bruning, Höchst-on-the-Main, Germany. Vat dye and making same. No. 968,697; Aug. 30; Sp. p. 6132; Gaz. vol. 157; p. 1070.

Schmidt, Alfred, Lake Hopatcong, N. J. Fuel-mixer. No. 977,229; Nov. 29; Sp. p. 6958; Gaz. vol. 160; p. 1183.

Schmidt, Alois, St. Paul, Minn. Furnace. No. 945,869; Jan. 11; Sp. p. 1927; Gaz. vol. 150; p. 320.

Schmidt, Alvin A., Chicago, Ill. Making resilient molds. No. 960,714; June 7; Sp. p. 966; Gaz. vol. 155; p. 160.

Schmidt, Alvin A., Chicago, Ill. Treating the interior surfaces of molds. No. 967,982; Aug. 23; Sp. p. 4544; Gaz. vol. 157; p. 797.

Schmidt, Charles, assignor to The Peerless Motor Car Company, Cleveland, Ohio. Steering and motor-controlling mechanism for automobiles. No. 946,465; Jan. 11; Sp. p. 3290; Gaz. vol. 150; p. 528.

Schmidt, Charles, assignor to The Peerless Motor Car Company, Cleveland, Ohio. Wire bar for ignition systems. No. 958,835; May 24; Sp. p. 5267; Gaz. vol. 154; p. 888.

Schmidt, Charles, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Gearing for motor-vehicles. No. 950,191; Feb. 22; Sp. p. 5122; Gaz. vol. 151; p. 899.

Schmidt, Charles, assignor of one-half to E. Wunderlich, New Orleans, La. Coin-register. No. 973,981; Oct. 25; Sp. p. 5368; Gaz. vol. 159; p. 934.

Schmidt, Charles G., and C. Naegelen, assignors to The Cincinnati Butchers Supply Company, Cincinnati, Ohio. Meat roller-press. No. 965,336; July 26; Sp. p. 5051; Gaz. vol. 156; p. 868.

Schmidt, Charles R., Baltimore, Md. Cast-iron pipe. No. 950,578; Mar. 1; Sp. p. 243; Gaz. vol. 152; p. 40.

Schmidt, Charles R., Baltimore, Md. Pipe-coupling. No. 951,704; Mar. 8; Sp. p. 2500; Gaz. vol. 152; p. 435.

Schmidt, Conrad, *et al.* (See Meyers, Frederick B., assignor.)

Schmidt, Edgar C. (See Baerresen and Schmidt.)

Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial-draft gear. No. 971,930; Oct. 4; Sp. p. 918; Gaz. vol. 159; p. 156.

Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial-draft gear. No. 975,896; Nov. 15; Sp. p. 4005; Gaz. vol. 160; p. 675.

Schmidt, Ferdinand L., New York, N. Y. Discharging device for envelop-machines. No. 956,736; May 3; Sp. p. 507; Gaz. vol. 154; p. 82.

Schmidt, Frank, South Omaha, Nebr. Pump. No. 954,471; Apr. 12; Sp. p. 1655; Gaz. vol. 153; p. 299.

Schmidt, Frank F., La Cygne, Kans. Card or ticket holder. No. 963,814; July 12; Sp. p. 1758; Gaz. vol. 156; p. 291.

Schmidt, Franz, and C. Fremaux, Roeulx, Belgium. Machine for combing fibrous materials. No. 948,665; Feb. 8; Sp. p. 1869; Gaz. vol. 151; p. 323.

Schmidt, Franz, and A. Grundmann, Berlin, Germany. Flexible shaft. No. 969,660; Sept. 6; Sp. p. 1082; Gaz. vol. 158; p. 173.

Schmidt, Frederick C., Beeville, Tex. Refrigerator. No. 977,332; Nov. 29; Sp. p. 7152; Gaz. vol. 160; p. 1218.

Schmidt, Frederick W., Philadelphia, Pa. Battery temperature-controller. No. 976,747; Nov. 22; Sp. p. 5844; Gaz. vol. 160; p. 990.

Schmidt, Frederick W., Philadelphia, Pa. Control for charging storage batteries. No. 976,748; Nov. 22; Sp. p. 5847; Gaz. vol. 160; p. 990.

Schmidt, Frederick W., Philadelphia, Pa. Thermostat. No. 976,749; Nov. 22; Sp. p. 5848; Gaz. vol. 160; p. 990.

Schmidt, Frederick W., Philadelphia, Pa. Control for charging storage batteries. No. 976,750; Nov. 22; Sp. p. 5850; Gaz. vol. 160; p. 991.

Schmidt, Friedrich A., Barmen, Germany. Braiding and plaiting machine. No. 952,950; Mar. 22; Sp. p. 5093; Gaz. vol. 152; p. 914.

Schmidt, Fritz, New York, N. Y. Boat-flooring. No. 950,871; Mar. 1; Sp. p. 866; Gaz. vol. 152; p. 139.

Schmidt, George L., Lincoln, Ala. Cotton-cleaning mechanism. No. 967,446; Aug. 16; Sp. p. 3444; Gaz. vol. 157; p. 593.

Schmidt, Hans, Berlin, Germany. Spark-arrester. No. 965,757; July 26; Sp. p. 5964; Gaz. vol. 156; p. 1013.

Schmidt, Henry, Elizabeth, N. J. Type-holder. No. 965,413; July 26; Sp. p. 5202; Gaz. vol. 156; p. 893.

Schmidt, Henry, Unionport, N. Y., assignor to The Meyrowitz Manufacturing Company. Apparatus for grinding lenses. No. 968,698; Aug. 30; Sp. p. 6133; Gaz. vol. 157; p. 1070.

Schmidt, Henry, Unionport, N. Y., assignor to The Meyrowitz Manufacturing Co. Grinding lenses. No. 968,699; Aug. 30; Sp. p. 6135; Gaz. vol. 157; p. 1071.

Schmidt, Henry W., Detroit, Mich. Spring vehicle-wheel. No. 973,569; Oct. 25; Sp. p. 4522; Gaz. vol. 159; p. 790.

Schmidt, Herbert. (See Schmidt, Ludwig and H.)

Schmidt, Herman A., Chicago, Ill. Electric-current generator. No. 971,690; Oct. 4; Sp. p. 372; Gaz. vol. 159; p. 66.

Schmidt, John, Dayton, Ohio. Bicycle-fork. No. 973,219; Oct. 18; Sp. p. 3789; Gaz. vol. 159; p. 647.

Schmidt, John F., *et al.* (See Mikolasek, Wenceslaus F., assignor.)

Schmidt, John G., Passaic, N. J. Flush-hinge door. No. 960,203; May 31; Sp. p. 8168; Gaz. vol. 154; p. 1374.

Schmidt, Joseph F., Newark, N. J. Railway-switch. No. 949,964; Feb. 22; Sp. p. 4598; Gaz. vol. 151; p. 821.

Schmidt, Karl, Neuruppin, Germany, assignor to Minimax Consolidated Limited, London, England. Pressure-compensating device for the air inclosed in fire-extinguishing apparatus. No. 945,288; Jan. 4; Sp. p. 585; Gaz. vol. 150; p. 96.

Schmidt, Kasseker & Co. (See Kasseker, Johann, assignor.)

Schmidt, Leo H., Vale, Oreg. Show-case lock. No. 957,803; May 10; Sp. p. 2764; Gaz. vol. 154; p. 474.

Schmidt, Leonard F., assignor of one-third to J. Roemer and one-third to H. Bettinger, Minersville, Pa. Clutch-bolt. No. 953,298; Mar. 29; Sp. p. 5849; Gaz. vol. 152; p. 1057.
Schmidt, Louis M., New Britain, assignor to G. P. Carroll, Bridgeport, Conn. Electric valve. No. 959,618; May 31; Sp. p. 6902; Gaz. vol. 154; p. 1175.
Schmidt, Ludwig and H., Kaiserswerth, near Dusseldorf, Germany. Automatic gas cut-off. No. 970,122; Sept. 13; Sp. p. 2095; Gaz. vol. 158; p. 357.
Schmidt, Michael P., Bellevue, Ky. Bung-extractor. No. 953,439; Mar. 29; Sp. p. 6157; Gaz. vol. 152; p. 1105.
Schmidt, Milo. (See Bolinski and Schmidt.)
Schmidt, Morris, New York, N. Y. Cord-retainer for packages. No. 959,396; May 24; Sp. p. 6423; Gaz. vol. 154; p. 1074.
Schmidt, Richard A., Bayard Station, N. Mex. Drill-sharpener. No. 969,081; Aug. 30; Sp. p. 6893; Gaz. vol. 157; p. 1200.
Schmidt, Robert E., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing and product thereof. No. 964,816; July 19; Sp. p. 3976; Gaz. vol. 156; p. 661.
Schmidt, Rudolph, Rosedale, Kans. Camping-stove. No. 967,447; Aug. 16; Sp. p. 3445; Gaz. vol. 157; p. 594.
Schmidt, Wilhelm. (See Uhl and Schmidt.)
Schmidt, Wilhelm, Wilhelmshoehe, near Cassel, Germany. Superheater for steam-boilers. No. 946,466; Jan. 11; Sp. p. 3292; Gaz. vol. 150; p. 529.
Schmidt, Wilhelm, Kornwestheim, Germany. Disjointable and adjustable arch-support. No. 949,552; Feb. 15; Sp. p. 3714; Gaz. vol. 151; p. 646.
Schmidt, William. (See Peters and Schmidt.)
Schmidt, William, Jersey City, N. J., assignor to The Firm of S. Zinn, New York, N. Y. Holder or frame for safety-razors. No. 962,531; June 28; Sp. p. 4846; Gaz. vol. 155; p. 852.
Schmidt, William, assignor to The Lunken Steel Window Co., Cincinnati, Ohio. Fireproof window construction. No. 966,364; Aug. 2; Sp. p. 1082; Gaz. vol. 157; p. 174.
Schmidt, William C., Baltimore, Md. Detachable fastener. No. 961,089; June 7; Sp. p. 1719; Gaz. vol. 155; p. 286.
Schmidtmann, Fritz, Dusseldorf, Germany. Folding table. No. 973,220; Oct. 18; Sp. p. 3790; Gaz. vol. 159; p. 648.
Schmiechen, Reinhold, Ledyard, Iowa. Ocean airship. No. 969,200; Sept. 6; Sp. p. 124; Gaz. vol. 158; p. 20.
Schmiechen, Reinhold, Ledyard, Iowa. Ocean-airship. No. 977,555; Dec. 6; Sp. p. 320; Gaz. vol. 161; p. 47.
Schmiechen, Reinhold, Ledyard, Iowa. Means for maintaining the equilibrium of airships and other flying-machines. No. 977,556; Dec. 6; Sp. p. 328; Gaz. vol. 161; p. 48.
Schmiedt, Ernst, Aschaffenburg, Germany. Gas-purifying apparatus. No. 955,915; Apr. 26; Sp. p. 4827; Gaz. vol. 153; p. 854.
Schmits, Heinrich. (See Grossmann, Friedrich, assignor.)
Schmitt, Edward D., assignor to The Pure Food Process Company, Baltimore, Md. Apparatus for sterilizing and tempering glass vessels. No. 976,001; Nov. 15; Sp. p. 4198; Gaz. vol. 160; p. 711.
Schmitt, Emil J., *et al.* (See Dolan, William J., assignor.)
Schmitt, Fredrick, Salt Lake City, Utah. Fastening flues in steam-boilers. No. 953,062; Mar. 29; Sp. p. 5327; Gaz. vol. 152; p. 981.
Schmitt, Jacob A., and C. R. Bell, Chicago, Ill. Composition of matter. No. 955,362; Apr. 19; Sp. p. 3601; Gaz. vol. 153; p. 636.
Schmitt, Karl, Jr., Lincoln, Nebr. Switch-operating mechanism. No. 962,673; June 28; Sp. p. 5142; Gaz. vol. 155; p. 899.
Schmitt, Louis F., Paterson, N. J. Bed-spring. No. 966,365; Aug. 2; Sp. p. 1083; Gaz. vol. 157; p. 174.
Schmitt, Oscar J. E., assignor to J. W. Frey, Buffalo, N. Y. Support for easels and the like. No. 963,327; July 5; Sp. p. 734; Gaz. vol. 156; p. 105.
Schmitt, Otto J., Philadelphia, Pa. Car-fender. No. 945,813; Jan. 11; Sp. p. 1790; Gaz. vol. 150; p. 300.
Schmitt, Otto J., Philadelphia, Pa. Car-fender. No. 974,300; Nov. 1; Sp. p. 499; Gaz. vol. 160; p. 73.
Schmittner, Alois, Dunkirk, N. Y. Game-board. No. 949,007; Feb. 15; Sp. p. 2586; Gaz. vol. 151; p. 464.
Schmitz, Alexander, Heerdt, near Dusseldorf, Germany. Making fatty compounds for use as turkey-red oils. No. 964,565; July 19; Sp. p. 3363; Gaz. vol. 156; p. 575.
Schmitz, Egon L., New York, assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Pencil. No. 945,422; Jan. 4; Sp. p. 904; Gaz. vol. 150; p. 141.
Schmitz, Egon L., New York, assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Pencil. No. 960,588; June 7; Sp. p. 715; Gaz. vol. 155; p. 118.
Schmitz, Emil, Cologne, Germany. Horseshoe with elastic bridge covering both ends. No. 945,289; Jan. 4; Sp. p. 587; Gaz. vol. 150; p. 96.
Schmitz, Ernst. (See Ehrlich and Schmitz.)
Schmitz, Joseph A., St. Paul, Minn. Hand-stamp. No. 980,012; Dec. 27; Sp. p. 5598; Gaz. vol. 161; p. 967.
Schmitz, Otto. (See Eberhard and Schmitz.)
Schmuck, Joseph, Steglitz, assignor to Optische Anstalt C. P. Goerz, Aktiengesellschaft, Friedenau, near Berlin, Germany. Device for exposing light-sensitive layer-carriers and film structure therefor. No. 947,946; Feb. 1; Sp. p. 352; Gaz. vol. 151; p. 57.
Schmutz, John A., Cumberland, Md. Nut-lock. No. 977,479; Dec. 6; Sp. p. 115; Gaz. vol. 161; p. 20.
Schnabel, Edmund, assignor to The Aeolian Company, New York, N. Y. Action for grand pianos. No. 954,140; Apr. 5; Sp. p. 916; Gaz. vol. 153; p. 159.
Schnabel, James F., Pittsburg, Pa., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Pig-handling apparatus. No. 977,046; Nov. 29; Sp. p. 6556; Gaz. vol. 160; p. 1119.
Schnaier, Milton, New York, N. Y. Courtyard or area drain. No. 947,778; Jan. 25; Sp. p. 6126; Gaz. vol. 150; p. 1020.
Schnapka, Xavera F., Breslau, assignor to F. Lissy, Kattowitz, Germany. Pen and pencil holder. No. 975,465; Nov. 15; Sp. p. 3096; Gaz. vol. 160; p. 529.
Schnapp, Friedrich, Berlin, Germany. Weir and the like. No. 979,574; Dec. 27; Sp. p. 4665; Gaz. vol. 161; p. 819.
Schnaufer, John F., Cosmos, Okla. Toy bank. No. 947,998; Feb. 1; Sp. p. 455; Gaz. vol. 151; p. 73.
Schnauffer, William A. A. (See Alexander, Jesse, assignor.)
Schnautz, Frederick W., New York, N. Y. Dumping-grate. No. 972,256; Oct. 11; Sp. p. 1631; Gaz. vol. 159; p. 286.
Schnebel, Carl, Berlin, Germany. Device for finding harmonic color shades. No. 974,924; Nov. 8; Sp. p. 1919; Gaz. vol. 160; p. 317.
Schneeloch, August, assignor to E. C. Stearns & Co., Syracuse, N. Y. Paper-feed roller. No. 946,618; Jan. 18; Sp. p. 3593; Gaz. vol. 150; p. 605.
Schneeloch, August, assignor to E. C. Stearns & Co., Syracuse, N. Y. Type-bar for type-writing machines. No. 950,543; Mar. 1; Sp. p. 169; Gaz. vol. 152; p. 28.
Schneible Company. (See Huber, Otto, assignor.)
Schneible, Joseph, Chicago, Ill. Malting. No. 954,889; Apr. 12; Sp. p. 2621; Gaz. vol. 153; p. 445.
Schneible, Joseph, Weehawken, N. J. Brewing. No. 961,539; June 14; Sp. p. 2692; Gaz. vol. 155; p. 467.
Schneider, Adolph, Chicago, Ill. Bottling-machine. No. 954,824; Apr. 12; Sp. p. 2473; Gaz. vol. 153; p. 422.
Schneider, Adolph, Chicago, Ill. Machine for bottling liquids. No. 976,751; Nov. 22; Sp. p. 5853; Gaz. vol. 160; p. 991.
Schneider, Charles J., New York, N. Y. Toy. No. 960,715; June 7; Sp. p. 968; Gaz. vol. 155; p. 161.
Schneider, Charles P. E., Le Creuzot, and E. Rimailho, Neuilly-sur-Seine, France. Sighting apparatus for guns. No. 946,402; Jan. 11; Sp. p. 3149; Gaz. vol. 150; p. 507.
Schneider, Charles P. E., Le Creuzot, and E. Rimailho, Neuilly-sur-Seine, France. Breech-loading gun. No. 946,826; Jan. 18; Sp. p. 4069; Gaz. vol. 150; p. 674.
Schneider, Charles P. E., Le Creuzot, and E. Rimailho, Neuilly-sur-Seine, France. Sighting apparatus for guns. No. 947,720; Jan. 25; Sp. p. 6016; Gaz. vol. 150; p. 1002.
Schneider, Christian F., *et al.* (See Allen, James M., assignor.)
Schneider, Clarence. (See Schneider, Henry and C.)
Schneider, Daniel, Dixie, Wash. Range-finder. No. 968,426; Aug. 23; Sp. p. 5505; Gaz. vol. 157; p. 949.
Schneider, Eberhard, New York, N. Y. Optical projecting apparatus. No. 953,105; Mar. 29; Sp. p. 5442; Gaz. vol. 152; p. 995.
Schneider, Eberhard, New York, N. Y. Terminal for electric conductors. No. 962,921; June 28; Sp. p. 5635; Gaz. vol. 155; p. 986.
Schneider, Edward A., and C. W. Gossom, Custer, Okla. Mail-box. No. 965,020; July 19; Sp. p. 4380; Gaz. vol. 156; p. 731.
Schneider, Edward J., Niagara Falls, N. Y. Cooling device for pneumatic tires. No. 953,299; Mar. 29; Sp. p. 5850; Gaz. vol. 152; p. 1057.
Schneider, Eugène, Le Creuzot, France. Ramming apparatus for guns. No. 947,600; Jan. 25; Sp. p. 5795; Gaz. vol. 150; p. 962.
Schneider, Eugène, Le Creuzot, France. Sighting apparatus for guns. No. 952,363; Mar. 15; Sp. p. 3831; Gaz. vol. 152; p. 685.
Schneider, Eugene, Le Creuzot, France. Fuse for explosive projectiles. No. 969,497; Sept. 6; Sp. p. 732; Gaz. vol. 158; p. 116.
Schneider, Eugene, Le Creuzot, France. Percussion-fuse. No. 971,691; Oct. 4; Sp. p. 374; Gaz. vol. 159; p. 66.
Schneider, Eugène, Le Creuzot, France. Means for improving the efficiency of hot-air or external-combustion motors. No. 973,221; Oct. 18; Sp. p. 3791; Gaz. vol. 159; p. 648.
Schneider, Eugene, Le Creuzot, France. Projectile for ordnance. No. 979,575; Dec. 27; Sp. p. 4667; Gaz. vol. 161; p. 819.
Schneider, Felix, Gevelsberg, Germany. Window-frame. No. 979,576; Dec. 27; Sp. p. 4669; Gaz. vol. 161; p. 820.
Schneider, Frederice, Velva, N. D. Wrench. No. 959,029; May 24; Sp. p. 5669; Gaz. vol. 154; p. 953.
Schneider, Gottleib, assignor of one-half to S. Robinson, Bluffton, Ind. Clothes-drier. No. 959,888; May 31; Sp. p. 7489; Gaz. vol. 154; p. 1265.

Alphabetical list of patentees—Continued.

Schneider, Gregor, Würzburg, Germany. Animal-shears. No. 974,604; Nov. 1; Sp. p. 1199; Gaz. vol. 160; p. 184.
Schneider, Hans, Hamburg, Germany. Generating formaldehyde. No. 969,661; Sept. 6; Sp. p. 1083; Gaz. vol. 158; p. 173.
Schneider, Henry, New York, N. Y. Nail-holder for hammers. No. 957,108; May 3; Sp. p. 1299; Gaz. vol. 154; p. 207.
Schneider, Henry and C., Lima, Ohio. Gaseous-fuel burner. No. 982,472; June 28; Sp. p. 4715; Gaz. vol. 155; p. 831.
Schneider, Hugo, Cleveland, Ohio. Thermostatic-valve-controlling mechanism. No. 947,310; Jan. 25; Sp. p. 5121; Gaz. vol. 150; p. 864.
Schneider, Joseph A., Lakeport, assignor of two-thirds to A. A. Brown, San Francisco, Cal. Internal-combustion-engine timer. No. 957,109; May 3; Sp. p. 1300; Gaz. vol. 154; p. 207.
Schneider, Leopold C., Philadelphia, Pa., assignor to The Philadelphia Pipe Bending Company. Making long pipe-coils. No. 972,928; Oct. 18; Sp. p. 3131; Gaz. vol. 159; p. 547.
Schneider, Louis C., Mittweida, Germany. Apparatus for hardening the teeth of card-clothing, &c. No. 958,326; May 17; Sp. p. 4220; Gaz. vol. 154; p. 689.
Schneider, Max, Radebeul, near Dresden, Germany. Accumulator. No. 948,639; Feb. 8; Sp. p. 1827; Gaz. vol. 151; p. 314.
Schneider, Max M., assignor to The Pullman Company, Chicago, Ill. Car-body underframe. No. 945,142; Jan. 4; Sp. p. 268; Gaz. vol. 150; p. 47.
Schneider, Max M., assignor to The Pullman Company, Chicago, Ill. Sleeping-car bunk. No. 965,953; Aug. 2; Sp. p. 212; Gaz. vol. 157; p. 37.
Schneider, Nicholas A. (See Likewise, Charles H., assignor.)
Schneider, Stefan, Chicago, Ill. Ball-bearing and retainer therefor. No. 978,223; Dec. 13; Sp. p. 1744; Gaz. vol. 161; p. 307.
Schneider, Willie C., Verdon, Nebr. Wrench. No. 966,130; Aug. 2; Sp. p. 597; Gaz. vol. 157; p. 98.
Schnell, Arwin, Manitowoc, Wis. Barn-door latch. No. 978,658; Dec. 13; Sp. p. 2701; Gaz. vol. 161; p. 459.
Schnell, Philip, Philadelphia, Pa. Trolley-pole. No. 976,501; Nov. 22; Sp. p. 5350; Gaz. vol. 160; p. 907.
Schnelle, Ernest, assignor of one-half to A. Ross, Rochester, N. Y. Nut-lock. No. 971,150; Sept. 27; Sp. p. 4278; Gaz. vol. 158; p. 753.
Schnelle, Friedrich O., Frankfort-on-the-Main, Germany, assignor to Wetherill Separating Company, New York, N. Y. Magnetic separator. No. 971,692; Oct. 4; Sp. p. 375; Gaz. vol. 159; p. 66.
Schnelle, William F., Cincinnati, Ohio. Game apparatus. No. 949,602; Feb. 15; Sp. p. 3803; Gaz. vol. 151; p. 662.
Schnellen, Adolf, Crefeld, Germany. Machine for making ornamental impressions on piled fabrics. No. 953,181; Mar. 29; Sp. p. 5605; Gaz. vol. 152; p. 1019.
Schnellsetz-Maschinengesellschaft mit beschränkter Haftung. (See Drewell, Heinrich, assignor.)
Schniewind, F., trustee. (See Mikolajczak, Anton, assignor.)
Schniewind, Frederic W. C., New York, N. Y. Burner for coke-ovens. No. 976,929; Nov. 29; Sp. p. 6281; Gaz. vol. 160; p. 1078.
Schniewind, Frederic W. C., New York, N. Y. Coke-oven and heating arrangement therefor. No. 976,930; Nov. 29; Sp. p. 6284; Gaz. vol. 160; p. 1078.
Schniewind, Frederic W. C., New York, N. Y. Coke-oven and door therefor. No. 976,931; Nov. 29; Sp. p. 6292; Gaz. vol. 160; p. 1079.
Schniewind, Frederic W. C., New York, N. Y. Car construction. No. 976,932; Nov. 29; Sp. p. 6295; Gaz. vol. 160; p. 1079.
Schniewind, Frederic W. C., New York, N. Y. Apparatus for cleaning gas-pipes. No. 976,933; Nov. 29; Sp. p. 6296; Gaz. vol. 160; p. 1080.
Schniewind, Frederic W. C., New York, N. Y. Coke-oven-discharging apparatus. No. 976,934; Nov. 29; Sp. p. 6300; Gaz. vol. 160; p. 1080.
Schniewind, Frederic W. C., New York, N. Y. Coke-oven and door therefor. No. 976,935; Nov. 29; Sp. p. 6306; Gaz. vol. 160; p. 1081.
Schnitzpahn, Karl, Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Oranze azo dye. No. 959,078; May 24; Sp. p. 5788; Gaz. vol. 154; p. 970.
Schnitzspahn, Karl, Offenbach-on-the-Main, assignor to Corporation of Chemische Fabrik Griesheim Elektron at Frankfort-on-the-Main, Germany. Monoazo dye for lakes. No. 976,401; Nov. 22; Sp. p. 5147; Gaz. vol. 160; p. 873.
Schnoor, Peter J. A., Holstein, Iowa. Safety-pulley. No. 958,182; May 17; Sp. p. 3775; Gaz. vol. 154; p. 638.
Schnoor, Peter J. A., Holstein, Iowa, assignor to The Great Western Novelty Company, Omaha, Nebr. Car-door. No. 947,947; Feb. 1; Sp. p. 355; Gaz. vol. 151; p. 57.
Schnorr, Georg A., Ober-Esslingen, assignor to The Firm of A. Martz, Stuttgart, Germany. Adjustable drawing-table. No. 971,081; Sept. 27; Sp. p. 4146; Gaz. vol. 158; p. 731.
Schnurr, Alfred, Sandusky, Ohio. Metal-reinforced concrete veneer for building construction. No. 957,382; May 10; Sp. p. 1907; Gaz. vol. 154; p. 332.
Schobert, George A., Racine, Wis. Hat-holder. No. 954,472; Apr. 12; Sp. p. 1657; Gaz. vol. 153; p. 300.
Schoby, Howard. (See Morgan and Schoby.)
Schocke, Wilhelm, Cassel, Germany. Combined seat and walking-stick. No. 954,473; Apr. 12; Sp. p. 1658; Gaz. vol. 153; p. 300.
Schoedinger, Franklin O. (See Weitzel, Jacob F., assignor.)
Schoelkopf, William C., Madison, Wis. Spring-nut. No. 956,185; Apr. 26; Sp. p. 5431; Gaz. vol. 153; p. 951.
Schoeller, Walter, and W. Schrauth, Berlin, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Alkali phenolates of orthoöxymercuric salicylic anhydrid. No. 967,838; Aug. 16; Sp. p. 4244; Gaz. vol. 157; p. 726.
Schoeller, Walter, and W. Schrauth, Berlin, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Secondary alkali salts of orthoöxymercuric salicylic acid. No. 967,839; Aug. 16; Sp. p. 4245; Gaz. vol. 157; p. 726.
Schoeller, Walter, and W. Schrauth, Berlin, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Medicinal soaps. No. 967,840; Aug. 16; Sp. p. 4245; Gaz. vol. 157; p. 726.
Schoeller, Walter, and W. Schrauth, Berlin, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Antifouling paint and varnish. No. 967,841; Aug. 16; Sp. p. 4246; Gaz. vol. 157; p. 726.
Schoeller, Walter, and W. Schrauth, Berlin, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Antifouling paint and varnish. No. 967,842; Aug. 16; Sp. p. 4247; Gaz. vol. 157; p. 726.
Schoen, August C., Philadelphia, Pa. Machine for printing warps. No. 954,890; Apr. 12; Sp. p. 2623; Gaz. vol. 153; p. 446.
Schoen, August C., Philadelphia, Pa. Holder for rugs during finishing, &c. No. 974,527; Nov. 1; Sp. p. 1039; Gaz. vol. 160; p. 155.
Schoen, Frederick C., New York, N. Y., assignor to Lidgerwood Manufacturing Company. Hydraulic telemotor. No. 966,479; Aug. 9; Sp. p. 1345; Gaz. vol. 157; p. 239.
Schoen, Paul E., assignor of one-half to Hall, Hartwell & Co., Troy, N. Y. Button-sewing machine. No. 953,977; Apr. 5; Sp. p. 577; Gaz. vol. 153; p. 104.
Schoenberg, Ralph A., assignor to I. S. Rosenheim, New York, N. Y. Pull-socket. No. 973,982; Oct. 25; Sp. p. 5377; Gaz. vol. 159; p. 934.
Schoenberger, George, Longbeach, Cal. Harness-buckle. No. 963,078; July 5; Sp. p. 107; Gaz. vol. 156; p. 19.
Schoenecker, William, Kenmare, N. D. Draft-equalizer. No. 964,319; July 12; Sp. p. 2803; Gaz. vol. 156; p. 462.
Schoenewolf, Christian F., *et al.* (See Weigand, Alfred, assignor.)
Schoenhut, Albert, Philadelphia, Pa. Toy. No. 980,013; Dec. 27; Sp. p. 5599; Gaz. vol. 161; p. 967.
Schoening, Daniel, Bergedorf, Germany. Flexible shafting. No. 956,737; May 3; Sp. p. 509; Gaz. vol. 154; p. 82.
Schoenmehl, Charles B., and W. Straw, Waterbury, Conn.; said Straw assignor to said Schoenmehl. Battery-electrode support. No. 945,614; Jan. 4; Sp. p. 1297; Gaz. vol. 150; p. 203.
Schoenmehl, Charles B., and W. Straw, Waterbury, Conn.; said Straw assignor to said Schoenmehl. Battery electrode-support. No. 948,379; Feb. 8; Sp. p. 1264; Gaz. vol. 151; p. 228.
Schoenmeier, Harry, and L. Mau, Philadelphia, Pa. Slicing-machine. No. 964,123; July 12; Sp. p. 2413; Gaz. vol. 156; p. 396.
Schoenrock, Otto R., Chicago, Ill. Wheel-rim-securing means. No. 955,213; Apr. 19; Sp. p. 3278; Gaz. vol. 153; p. 586.
Schoepe, Joseph, assignor of part to A. Hellmuth and J. P. Friedman, New York, N. Y. Curtain-fixture. No. 956,432; Apr. 26; Sp. p. 5947; Gaz. vol. 153; p. 1034.
Schoettle, Julius W. (See Mayer and Schoettle.)
Schofield, Albert B., deceased; B. W. Schofield, New York, N. Y., executrix. Wire-cutter. No. 955,287; Apr. 19; Sp. p. 3430; Gaz. vol. 153; p. 610.
Schofield, Bertha W., executrix. (See Schofield, Albert B.)
Schofield, Charles, Newcastle-upon-Tyne, England. Holder-on. No. 972,257; Oct. 11; Sp. p. 1632; Gaz. vol. 159; p. 287.
Schofield, Frederick C., Richmond, Va. Flash-light apparatus and cartridge therefor. No. 946,849; Jan. 18; Sp. p. 4122; Gaz. vol. 150; p. 682.
Schofield, George V. A. (See Cater and Schofield.)
Schofield, Harry. (See Ross and Schofield.)
Schofield, John, Paterson, N. J. Attachment for gas-stoves and the like. No. 978,402; Dec. 13; Sp. p. 2133; Gaz. vol. 161; p. 371.
Schofield, Joseph A. (See Caswell and Schofield.)
Schofield, Joseph A. (See Oldfield and Schofield.)
Schofield, Joseph B., Baltimore, Md. Spectacles and eye-glasses. No. 964,188; July 12; Sp. p. 2528; Gaz. vol. 156; p. 416.
Schofield, Otis W., Montpelier, Idaho. Hatband. No. 974,605; Nov. 1; Sp. p. 1201; Gaz. vol. 160; p. 184.

Schofield, Silas C., Freeport, Ill. Screen. No. 948,433; Feb. 8; Sp. p. 1374; Gaz. vol. 151; p. 245.
Scholes, Alfred G., Ilford, England. Internal-combustion engine of the two-cycle type. No. 967,250; Aug. 16; Sp. p. 3045; Gaz. vol. 157; p. 526.
Scholl, Franz, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Black mono-azo dye and making. No. 958,774; May 24; Sp. p. 5119; Gaz. vol. 154; p. 865.
Scholl, Peter L., assignor to O. M. Weand, Reading, Pa. Rotary screen mechanism. No. 962,168; June 21; Sp. p. 4056; Gaz. vol. 155; p. 704.
Scholl, Roland, Gratz, Austria-Hungary, and M. H. Isler, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making. No. 955,105; Apr. 12; Sp. p. 3033; Gaz. vol. 153; p. 515.
Scholl, Sheridan S., Roanoke, Va. Dynamite-thawer. No. 978,659; Dec. 13; Sp. p. 2702; Gaz. vol. 161; p. 459.
Scholle, Albert H., New York, N. Y. Multiple lifting-jack. No. 949,331; Feb. 15; Sp. p. 3254; Gaz. vol. 151; p. 572.
Scholle, Albert H., New York, N. Y. Multiple lifting-jack. No. 961,899; June 21; Sp. p. 3449; Gaz. vol. 155; p. 610.
Scholler, Adolph. (See Scholler and Dempsey.)
Scholler, Frederick C. and A., and J. C. Dempsey, Philadelphia, Pa. Device for removing creases from stockings and similar articles preparatory to singeing. No. 968,497; Aug. 23; Sp. p. 5656; Gaz. vol. 157; p. 975.
Scholtes, Joseph, Mount Oliver, Pa. Toy gun. No. 947,621; Jan. 25; Sp. p. 5840; Gaz. vol. 150; p. 970.
Schomburg, Frederick H., Brooklyn, N. Y. Needle. No. 945,984; Jan. 11; Sp. p. 2173; Gaz. vol. 150; p. 361.
Schön, Lüdwig, Vienna, Austria-Hungary, assignor to S. Herlinger, Venice, Cal. Pocket-igniter. No. 970,649; Sept. 20; Sp. p. 3233; Gaz. vol. 158; p. 557.
Schönberg, Isaac, assignor to S. Eisenstein, St. Petersburg, Russia. Apparatus for producing high-frequency oscillations. No. 948,348; Feb. 8; Sp. p. 1183; Gaz. vol. 151; p. 217.
Schönherr, Otto, and J. Hessberger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of long stable electric arcs. No. 976,002; Nov. 15; Sp. p. 4201; Gaz. vol. 160; p. 712.
Schönner, Rudolf, Berlin, Germany. Seed-sower. No. 957,577; May 10; Sp. p. 2294; Gaz. vol. 154; p. 398.
Schönwetter, Anton F., Cleveland, Ohio. Phonograph sound-box. No. 976,502; Nov. 22; Sp. p. 5351; Gaz. vol. 160; p. 908.
Schoof, Ernest A. C., New York, N. Y. Spring-heel. No. 955,700; Apr. 19; Sp. p. 4351; Gaz. vol. 153; p. 751.
Schooling Calculating Machine Company Limited, The. (See Schooling, William, assignor.)
Schooling, William, Westminster, London, assignor to The Schooling Calculating Machine Company Limited, London, England. Adding and listing machine. No. 974,996; Nov. 8; Sp. p. 2098; Gaz. vol. 160; p. 342.
Schooling, William, Westminster, London, assignor to The Schooling Calculating Machine Company Limited, London, England. Adding and subtracting machine. No. 977,333; Nov. 29; Sp. p. 7154; Gaz. vol. 160; p. 1218.
Schoonmaker, Leon M., Long Island City, N. Y. Dumping-barrow. No. 959,265; May 24; Sp. p. 6166; Gaz. vol. 154; p. 1031.
Schoonmaker, William H. (See Barnes, Thomas A., assignor.)
Schoop, John H., Lamotte, Iowa. Device for controlling power of explosive-engines. No. 955,916; Apr. 26; Sp. p. 4828; Gaz. vol. 153; p. 854.
Schopen, John, Newark, Ohio. Curtain-pole. No. 962,787; June 28; Sp. p. 5392; Gaz. vol. 155; p. 941.
Schorcht, Emma S. (See Alexander, Jesse, assignor.)
Schorik, Frank. (See Kriz and Schorik.)
Schorik, Frank, Chicago, Ill. Coin-detector. No. 960,716; June 7; Sp. p. 969; Gaz. vol. 155; p. 161.
Schorlemmer, Harold W., Rossland, British Columbia, Canada. Rock-drill chuck. No. 950,030; Feb. 22; Sp. p. 4805; Gaz. vol. 151; p. 845.
Schortmann, Emil C., Bilbao, Spain. Confinement-chair. No. 954,474; Apr. 12; Sp. p. 1659; Gaz. vol. 153; p. 300.
Schott & Gen. (See Hahn, Konrad, assignor.)
Schott & Gen. (See Hatfield, Henry, assignor.)
Schott, Henry, New York, N. Y. Knockdown trestle. No. 978,403; Dec. 13; Sp. p. 2135; Gaz. vol. 161; p. 371.
Schott, Lisette, London, England. Waterproofing and preservative paint or composition. No. 966,366; Aug. 2; Sp. p. 1084; Gaz. vol. 157; p. 174.
Schott, Oscar, Cincinnati, Ohio. Vehicle-wheel. No. 948,076; Feb. 1; Sp. p. 621; Gaz. vol. 151; p. 101.
Schou, Ejnar, London, England. Cooling apparatus for fluid or semi-fluid substances. No. 957,629; May 10; Sp. p. 2398; Gaz. vol. 154; p. 415.
Schoüboe, Hans, Omaha, Nebr. Flying-machine. No. 965,021; July 19; Sp. p. 4381; Gaz. vol. 156; p. 731.
Schowalter, Edward J., Racine, Wis. Window-cleaner. No. 974,193; Nov. 1; Sp. p. 200; Gaz. vol. 160; p. 34.
Schrade, Jacob L. and W., Walden, N. Y. Pocket-knife. No. 969,909; Sept. 13; Sp. p. 1650; Gaz. vol. 158; p. 285.
Schrade, William. (See Schrade, Jacob L. and W.)
Schrader, Dora, *et al.* (See Schrader, Moritz, assignor.)
Schrader, Hart, Jr., and Z. P. Forster, New York, N. Y. Forming-machine. No. 978,224; Dec. 13; Sp. p. 1745; Gaz. vol. 161; p. 307.
Schrader, Moritz, assignor of fifty-one one-hundredths to S. Firestone, McKeesport, Pa. Firearm. No. 968,989; Aug. 30; Sp. p. 6705; Gaz. vol. 157; p. 1167.
Schrader, Moritz, assignor of one-third to I. Moltz, McKeesport, one-third to H. H. Moltz, Ford City, and one-third to I. Wolken, Pittsburg, Pa. Lock. No. 967,843; Aug. 16; Sp. p. 4247; Gaz. vol. 157; p. 726.
Schrader, Moritz, McKeesport, assignor of one-twentieth to I. Walton and one-twentieth to D. Schrader, Pittsburg, one-twentieth to S. Schrader and one-half to S. Firestone, McKeesport, Pa. Firearm. No. 965,661; July 26; Sp. p. 5761; Gaz. vol. 156; p. 980.
Schrader, Otto R., San Francisco, Cal. Post-cap and timber-seat. No. 974,606; Nov. 1; Sp. p. 1202; Gaz. vol. 160; p. 184.
Schrader, Paul J., Chicago, Ill. Air-deflector for vehicles. No. 953,350; Mar. 29; Sp. p. 5963; Gaz. vol. 152; p. 1075.
Schrader, Simon, *et al.* (See Schrader, Moritz, assignor.)
Schraeger, Otto H., Milwaukee, Wis. Gas-stove. No. 978,338; Dec. 13; Sp. p. 1998; Gaz. vol. 161; p. 348.
Schrag, Andrew, assignor of one-half to H. D. Murray, Toronto, Ontario, Canada. Molding-box. No. 948,253; Feb. 1; Sp. p. 967; Gaz. vol. 151; p. 158.
Schrag, Roland A., Toronto, Ontario, Canada. Hollow tool. No. 961,540; June 14; Sp. p. 2693; Gaz. vol. 155; p. 467.
Schramm, Adolph F. (See Hulse and Schramm.)
Schramm, Adolph W. (See Russell and Schramm.)
Schramm, Adolph W., Riverton, N. J. Chuck-removing device. No. 972,575; Oct. 11; Sp. p. 2326; Gaz. vol. 159; p. 399.
Schramm, John, Chicago, Ill. Toy. No. 975,291; Nov. 8; Sp. p. 2732; Gaz. vol. 160; p. 442.
Schramm, John, Chicago, Ill. Self-locking rod-clamp. No. 975,292; Nov. 8; Sp. p. 2733; Gaz. vol. 160; p. 443.
Schramm, Omar A., *et al.* (See Blundell, William C., assignor.)
Schramm, Philip C., *et al.* (See Blundell, William C., assignor.)
Schrauben-und Schmiedewarenfabriks Aktiengesellschaft Brevillier & Co. und A. Urban & Söhne. (See Heller, Julius, assignor.)
Schrauth, Walther. (See Schoeller and Schrauth.)
Schraw, Charles. (See Mauger and Schraw.)
Schreck, Irvin, Galion, Ohio. Mail-bag catcher. No. 947,703; Jan. 25; Sp. p. 5986; Gaz. vol. 150; p. 996.
Schreiber, Albin, and O. Meister, Untermhaus, near Gera, Germany. Automobile-covering. No. 958,183; May 17; Sp. p. 3777; Gaz. vol. 154; p. 638.
Schreiber, Emile, Atchison, Kans. Display-rack for windows. No. 949,915; Feb. 22; Sp. p. 4506; Gaz. vol. 151; p. 804.
Schreiber, Hans, Berlin, Germany. Kneading and mixing machine. No. 979,804; Dec. 27; Sp. p. 5180; Gaz. vol. 161; p. 898.
Schreiber, Hugo P., London, England. Secondary battery. No. 962,263; June 21; Sp. p. 4249; Gaz. vol. 155; p. 735.
Schreiber, Leon, Cleveland, Ohio. Guard for sewing-machines. No. 947,651; Jan. 25; Sp. p. 5903; Gaz. vol. 150; p. 980.
Schreiber, Rudolph C., Harvey, Ill. Current-motor. No. 958,014; May 17; Sp. p. 3316; Gaz. vol. 154; p. 578.
Schreiber, William. (See Pollock and Schreiber.)
Schreier, Herman. (See Ackermann, William H., assignor.)
Schreuder, Andrew M., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying-machine. No. 962,865; June 28; Sp. p. 5536; Gaz. vol. 155; p. 968.
Schrier, William, Sparta, Ill. Self-bracing jack-post. No. 968,269; Aug. 23; Sp. p. 5202; Gaz. vol. 157; p. 895.
Schrode, John L., Hopkinsville, assignor of one-half to F. W. Nunn, Marion, Ky. Globe-valve. No. 951,970; Mar. 15; Sp. p. 3073; Gaz. vol. 152; p. 555.
Schroder, Herman F., Berwyn, assignor to W. H. Miner, Chicago, Ill. Journal-bearing mold. No. 974,529; Nov. 1; Sp. p. 1044; Gaz. vol. 160; p. 156.
Schroder, Herman F., Berwyn, assignor to W. H. Miner, Chicago, Ill. Journal-bearing mold. No. 974,530; Nov. 1; Sp. p. 1046; Gaz. vol. 160; p. 156.
Schröder, Paul, Stuttgart, Germany. Armored electric conductor. No. 956,186; Apr. 26; Sp. p. 5432; Gaz. vol. 153; p. 951.
Schröder, Wilhelm G., Lübeck, assignor to Altonaer Margarine Werke Mohr & Co. Gesellschaft mit beschränkter Haftung, Altona-Ottensen, Germany. Apparatus for cooling and drying materials. No. 949,719; Feb. 15; Sp. p. 4022; Gaz. vol. 151; p. 700.
Schröder, Wilhelm G., Lübeck, assignor to Altonaer Margarine Werke Mohr & Co. Gesellschaft mit beschränkter Haftung, Altona-Ottensen, Germany. Mechanism for grinding or mixing emulsions. No. 976,699; Nov. 22; Sp. p. 5750; Gaz. vol. 160; p. 973.
Schroeder, Albert F., Cleveland, Ohio. Lock. No. 970,123; Sept. 13; Sp. p. 2097; Gaz. vol. 158; p. 357.

Alphabetical list of patentees—Continued.

Schroeder, Albert G. (See Chamberlain, Schroeder, and McLeod.)
Schroeder, Arthur A., Newark, N. J. Friction-drum. No. 946,988; Jan. 18; Sp. p. 4428; Gaz. vol. 150; p. 729.
Schroeder, Conrad, L. E. Levi, and A. J. M. Lasche, Milwaukee, Wis. Coating for the tips of cigars. No. 951,582; Mar. 8; Sp. p. 2273; Gaz. vol. 152; p. 394.
Schroeder, Florence P., Berkeley, Cal., assignor to Vaco Manufacturing Co. Vacuum-supporting device. No. 957,804; May 10; Sp. p. 2766; Gaz. vol. 154; p. 474.
Schroeder, Fred H., Jr., Tacoma, Wash. Bar spacer and supporter for reinforced concrete. No. 976,503; Nov. 22; Sp. p. 5353; Gaz. vol. 160; p. 908.
Schroeder, Frederick A., Westmont, Pa., assignor to Cambria Steel Company. Splice-bar. No. 947,581; Jan. 25; Sp. p. 5753; Gaz. vol. 150; p. 956.
Schroeder, Frederick W., London, England. Propulsion of vessels. No. 955,214; Apr. 19; Sp. p. 3280; Gaz. vol. 153; p. 587.
Schroeder, Frederick W., Kennington, London, England. Aerial ship. No. 959,266; May 24; Sp. p. 6168; Gaz. vol. 154; p. 1031.
Schroeder, Frederick W., assignor of one-half to A. Cuzner, London, England. Umbrella. No. 973,222; Oct. 18; Sp. p. 3792; Gaz. vol. 159; p. 648.
Schroeder, George G., Washington, D. C. Rotary explosive-engine. No. 955,288; Apr. 19; Sp. p. 3431; Gaz. vol. 153; p. 610.
Schroeder, George L., Rockdale, Tex. Plow-slide. No. 956,187; Apr. 26; Sp. p. 5433; Gaz. vol. 153; p. 951.
Schroeder, Hans C., assignor to The Goss Printing Press Company, Chicago, Ill. Folding mechanism. No. 954,141; Apr. 5; Sp. p. 918; Gaz. vol. 153; p. 160.
Schroeder, Hans C., assignor to The Goss Printing Press Company, Chicago, Ill. Folding-machine. No. 954,142; Apr. 5; Sp. p. 922; Gaz. vol. 153; p. 160.
Schroeder Headlight Company. (See Nikonow, John P., assignor.)
Schroeder Headlight Company. (See Powers, Clarence E., assignor.)
Schroeder, Henry F., Cleveland, Ohio. Faucet. No. 978,660; Dec. 13; Sp. p. 2704; Gaz. vol. 161; p. 460.
Schroeder, Herman, deceased, Butte, and G. Kessler, Durant, Mont.; M. Schroeder, administratrix of H. Schroeder. Smoke-washer. No. 965,954; Aug. 2; Sp. p. 214; Gaz. vol. 157; p. 37.
Schroeder, May, administratrix. (See Schroeder and Kessler.)
Schroeder, Wilhelm, Berkeley, Cal. Egg-tester. No. 976,700; Nov. 22; Sp. p. 5751; Gaz. vol. 160; p. 974.
Schroeder, William H. (See Elliott and Schroeder.)
Schroeder, William H., Creston, Iowa. Slip-holder. No. 945,985; Jan. 11; Sp. p. 2174; Gaz. vol. 150; p. 362.
Schroepfer, Casper, Davenport, Iowa. Router-bit. No. 948,904; Feb. 8; Sp. p. 2368; Gaz. vol. 151; p. 403.
Schroer, Benard H., Oakdale, Ill. Trap. No. 964,060; July 12; Sp. p. 2278; Gaz. vol. 156; p. 375.
Schroyer, Charles A., Oak Park, assignor to American Steel Foundries, Chicago, Ill. Car-truck side frame. No. 970,757; Sept. 20; Sp. p. 3475; Gaz. vol. 158; p. 594.
Schryver, George, New York, N. Y. Table. No. 962,922; June 28; Sp. p. 5636; Gaz. vol. 155; p. 987.
Schtabe, Ferdinand, New York, N. Y. Level attachment for drills. No. 960,718; June 7; Sp. p. 972; Gaz. vol. 155; p. 161.
Schubert, George, Fort Worth, Tex. Spring and power pull-back for hay-balers. No. 971,151; Sept. 27; Sp. p. 4282; Gaz. vol. 158; p. 754.
Schubert, George, Fort Worth, Tex. Spring and power pull-back for baling-presses. No. 971,152; Sept. 27; Sp. p. 4282; Gaz. vol. 158; p. 754.
Schuch, Anthony, and G. H. Tegmeier, Edwardsville, Ill. Sample-holder. No. 975,293; Nov. 8; Sp. p. 2735; Gaz. vol. 160; p. 443.
Schuch, Hamilton J., Cincinnati, Ohio. Pencil-sharpener. No. 951,457; Mar. 8; Sp. p. 2030; Gaz. vol. 152; p. 352.
Schuchardt, John A., Sr., and J. A., Jr., assignors of one-third to J. Ries, New Castle, Del. Brake-operating mechanism. No. 952,759; Mar. 22; Sp. p. 4702; Gaz. vol. 152; p. 849.
Schucker, Alvin B., assignor of one-third to C. Schultz, Reading, Pa. Carpenter's brace. No. 978,066; Dec. 6; Sp. p. 1384; Gaz. vol. 161; p. 222.
Schuermann, Anton C., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Compression stop and waste. No. 951,660; Mar. 8; Sp. p. 2434; Gaz. vol. 152; p. 421.
Schuermann, Anton C., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Compression stop and waste. (Reissue.) No. 13,135; July 19; Sp. p. 4637; Gaz. vol. 156; p. 774.
Schuermann, Anton C., assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Cock or faucet. No. 970,562; Sept. 20; Sp. p. 3027; Gaz. vol. 158; p. 527.
Schuette, Edwin, and N. Dedrick, Manitowoc, Wis.; said Dedrick assignor to said Schuette. Recording-compass. No. 978,942; Dec. 20; Sp. p. 3266; Gaz. vol. 161; p. 579.
Schuetze, William, Pittsburg, Pa. Vehicle-wheel. No. 952,019; Mar. 15; Sp. p. 3169; Gaz. vol. 152; p. 570.
Schuhfabrik Bonndorf Gebrüder Kriechle. (See Frey, Victor, assignor.)
Schuldes, Franz, New York, N. Y. Planing-machine. No. 968,198; Aug. 23; Sp. p. 5044; Gaz. vol. 157; p. 869.
Schulein, Solomon, *et al.* (See Schwinger, Abraham I., assignor.)
Schulenberg, Fritz H., Dunkirk, N. Y. Tire-armor. No. 968,086; Aug. 23; Sp. p. 4783; Gaz. vol. 157; p. 832.
Schuler, Franz, Charlottenburg, Germany. Holder for cooking vessels. No. 980,130; Dec. 27; Sp. p. 5893; Gaz. vol. 161; p. 1006.
Schuler, Harry L., Piper City, Ill. Carpet-beater. No. 949,092; Feb. 15; Sp. p. 2761; Gaz. vol. 151; p. 491.
Schuler, Henry L., Cleveland, Ohio. Headlight. No. 949,503; Feb. 15; Sp. p. 3610; Gaz. vol. 151; p. 629.
Schulherr, Isidor A., and B. I. Vincent, St. Louis, Mo. Glove. No. 970,958; Sept. 20; Sp. p. 3873; Gaz. vol. 158; p. 661.
Schülke, Julius, Jena, Germany. Flying apparatus. No. 968,700; Aug. 30; Sp. p. 6137; Gaz. vol. 157; p. 1071.
Schull, John, Philadelphia, Pa. Jacquard-card-punching machine. No. 960,117; May 31; Sp. p. 8002; Gaz. vol. 154; p. 1345.
Schull, John, Philadelphia, Pa. Jacquard-card-cutting machine. No. 960,118; May 31; Sp. p. 8007; Gaz. vol. 154; p. 1345.
Schuller, Alfred L., Chicago, Ill., assignor to Otis Elevator Company, Jersey City, N. J. Plunger-elevator-retarding mechanism. No. 965,542; July 26; Sp. p. 5515; Gaz. vol. 156; p. 939.
Schuller, John, and A. Niland, Hoquiam, Wash. Rotary steam-engine. No. 962,984; June 28; Sp. p. 5752; Gaz. vol. 155; p. 1007.
Schuller, Joseph, Chicago, Ill. Pocket-closer. No. 963,815; July 12; Sp. p. 1760; Gaz. vol. 156; p. 291.
Schulman, Joseph. (See Schulman, Louis and J.)
Schulman, Louis and J., assignors to American Fire Cracker Manufacturing Company, New York, N. Y. Pyrotechnics. No. 956,546; May 3; Sp. p. 86; Gaz. vol. 154; p. 16.
Schulte, Eduard, Hamm, Westphalia, Germany, assignor to The United Coke and Gas Company. Adjustable valve-controller. No. 953,766; Apr. 5; Sp. p. 169; Gaz. vol. 153; p. 31.
Schulte, Eduard, New York, N. Y., assignor to The United Coke and Gas Company. Quenching coke. No. 958,184; May 17; Sp. p. 3777; Gaz. vol. 154; p. 638.
Schulte, Eduard, New York, N. Y., assignor to The United Coke and Gas Company. Regulator for gas-pumping systems. No. 958,185; May 17; Sp. p. 3780; Gaz. vol. 154; p. 639.
Schulte, Henry F., Hopedale, Ill. Tobacco-pipe. No. 976,936; Nov. 29; Sp. p. 6308; Gaz. vol. 160; p. 1081.
Schulte, John H., *et al.* (See Ziganek, Ferdinand, assignor.)
Schulte, Joseph, *et al.* (See Ziganek, Ferdinand, assignor.)
Schulte, Joseph H., *et al.* (See Sturges, Varney K., assignor.)
Schulte and Koerting Company. (See Knauf, Paul W., assignor.)
Schulte-Steinberg, Hugo, Düren, near Stockum, Germany. Molding bricks. No. 971,693; Oct. 4; Sp. p. 378; Gaz. vol. 159; p. 67.
Schulte-Uechting, Elisabeth, Bonn, Germany. Abdominal supporter. No. 961,166; June 14; Sp. p. 1869; Gaz. vol. 155; p. 339.
Schulte, William H., Trenton, N. J. Valve mechanism. No. 974,925; Nov. 8; Sp. p. 1920; Gaz. vol. 160; p. 317.
Schulte, William H., Trenton, N. J. Controlling device for waste-plugs. No. 974,926; Nov. 8; Sp. p. 1923; Gaz. vol. 160; p. 318.
Schulte, William H., Trenton, N. J., and R. C. Wilson, Mount Vernon, N. Y. Floor-flange. No. 978,404; Dec. 13; Sp. p. 2135; Gaz. vol. 161; p. 371.
Schultheis, William A., Cincinnati, Ohio. Gasket. No. 956,188; Apr. 26; Sp. p. 5434; Gaz. vol. 153; p. 951.
Schultheis, William A., Cincinnati, Ohio. Gasket. No. 965,022; July 19; Sp. p. 4382; Gaz. vol. 156; p. 731.
Schultis, Charles F., Lakewood, assignor to The Cleveland Collet and Machine Company, Cleveland, Ohio. Adjustable collet for lathes and like machines. No. 952,364; Mar. 15; Sp. p. 3833; Gaz. vol. 152; p. 686.
Schultz, Albert, Dayton, Ohio. Pulp-feed regulator. No. 955,558; Apr. 19; Sp. p. 4008; Gaz. vol. 153; p. 702.
Schultz, Albert P., Kenosha, Wis. Pliers. No. 973,076; Oct. 18; Sp. p. 3446; Gaz. vol. 159; p. 597.
Schultz, Charles. (See Schucker, Alvin B., assignor.)
Schultz, Charles, Cremona, Alberta, Canada. Farm-gate. No. 946,707; Jan. 18; Sp. p. 3779; Gaz. vol. 150; p. 632.
Schultz, David L. (See Evans, William P., assignor.)
Schultz, Elmer, Rhinebeck, N. Y. Fruit-picker. No. 945,290; Jan. 4; Sp. p. 588; Gaz. vol. 150; p. 97.
Schultz, Frank A., assignor of one-half to G. Rollman, Wilkes-Barre, Pa. Circuit-closer for alarms. No. 970,124; Sept. 13; Sp. p. 2098; Gaz. vol. 158; p. 357.
Schultz, Franklin. (See Falker, Schultz, and Wagner.)
Schultz, Fred E., Decatur, Ill. Drawer attachment. No. 951,705; Mar. 8; Sp. p. 2502; Gaz. vol. 152; p. 435.

Schultz, Frederick E., Detroit, Mich. Automatic fire-alarm signal. No. 951,583; Mar. 8; Sp. p. 2274; Gaz. vol. 152; p. 394.
Schultz, Lawrence, Buffalo, N. D. Well-drilling apparatus. No. 963,657; July 5; Sp. p. 1388; Gaz. vol. 156; p. 216.
Schultz, Max, South Bend, Ind. Toilet-cabinet. No. 954,143; Apr. 5; Sp. p. 929; Gaz. vol. 153; p. 161.
Schultz, Reinhard J., Arco, Minn. Filtering device. No. 970,650; Sept. 20; Sp. p. 3235; Gaz. vol. 158; p. 557.
Schultze, Charles F., Pottsville, Pa. Laying out patterns. No. 945,814; Jan. 11; Sp. p. 1794; Gaz. vol. 150; p. 300.
Schultze, Frederick W., Philadelphia, Pa. Lock. No. 954,593; Apr. 12; Sp. p. 1915; Gaz. vol. 153; p. 340.
Schultze Gunpowder Company, The. (See Wadsworth, George H., assignor.)
Schuly, Otto R. (See Otten, Arthur H., assignor.)
Schulz, Albert, Barmen, Germany. Keyboard for keyed musical instruments. No. 958,186; May 17; Sp. p. 3783; Gaz. vol. 154; p. 639.
Schulz, Edward F., San Francisco, assignor of one-half to C. B. Welch, Berkeley, Cal. Sifter-top for receptacles. No. 953,300; Mar. 29; Sp. p. 5851; Gaz. vol. 152; p. 1057.
Schulz, Frederick A. J., Bronxville, N. Y. Elevator-brake. No. 961,541; June 14; Sp. p. 2694; Gaz. vol. 155; p. 467.
Schulz, Otto, Schlachtensee, near Berlin, Germany. Turbo-unipolar generator. No. 958,681; May 17; Sp. p. 4911; Gaz. vol. 154; p. 806.
Schulz, Theodor, Newark, N. J. Fire-escape. No. 950,246; Feb. 22; Sp. p. 5242; Gaz. vol. 151; p. 919.
Schulze, Carl, Chicago, Ill. Exercising-machine. No. 974,194; Nov. 1; Sp. p. 202; Gaz. vol. 160; p. 34.
Schulze, Gustav F., Vandalia, Mo. Postman's delivery-wagon. No. 973,390; Oct. 18; Sp. p. 4141; Gaz. vol. 159; p. 706.
Schulze, Henry W., Milwaukee, Wis. Gas-plate. No. 966,480; Aug. 9; Sp. p. 1348; Gaz. vol. 157; p. 239.
Schumacher, Albert, Stettin, Germany. Knapsack and the like. No. 954,825; Apr. 12; Sp. p. 2480; Gaz. vol. 153; p. 422.
Schumacher, Erich, Aachen, Germany. Stick and spring for umbrellas. No. 968,270; Aug. 23; Sp. p. 5202; Gaz. vol. 157; p. 895.
Schumacher, Frederick C., assignor to Perfect Foot-Arch Supporter Co., New York, N. Y. Device for the correction of flat foot, weak foot, or fallen arch of the foot. No. 957,718; May 10; Sp. p. 2581; Gaz. vol. 154; p. 446.
Schumacher, Wilhelm, Osnabrück, Germany. Manufacture of artificial stone from slag. No. 977,681; Dec. 6; Sp. p. 587; Gaz. vol. 161; p. 90.
Schumacher, William, Readlyn, Iowa. Door-latch. No. 970,651; Sept. 20; Sp. p. 3236; Gaz. vol. 158; p. 557.
Schuman Company, The. (See Schuman, James B., assignor.)
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Shock-loader. No. 948,380; Feb. 8; Sp. p. 1266; Gaz. vol. 151; p. 228.
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Stalk-harvester. No. 951,223; Mar. 8; Sp. p. 1530; Gaz. vol. 152; p. 276.
Schumann, Albert, Berlin, Germany. Racing apparatus. No. 962,057; June 21; Sp. p. 3787; Gaz. vol. 155; p. 664.
Schumann, August C., Laurel, Iowa. Bonding-tie for concrete-floor construction. No. 977,753; Dec. 6; Sp. p. 730; Gaz. vol. 161; p. 115.
Schumann, Frank J., Bethlehem, Pa. Stamp-vending machine. No. 957,112; May 3; Sp. p. 1304; Gaz. vol. 154; p. 208.
Schumpert, William C., Chattanooga, Okla. Nut-lock. No. 976,701; Nov. 22; Sp. p. 5752; Gaz. vol. 160; p. 974.
Schürch, Jakob, Bruchsal, Germany. Dynamo-electric machine for the production of continuous and alternating currents. No. 966,246; Aug. 2; Sp. p. 860; Gaz. vol. 157; p. 137.
Schussler, Walter, Philadelphia, Pa. Pumping mechanism for carpet-cleaning machines. No. 948,254; Feb. 1; Sp. p. 968; Gaz. vol. 151; p. 159.
Schuster, Albert. (See Kundtz and Schuster.)
Schuster, Frank A., Sharpsburg, Pa. Pipe-drawing machine. No. 977,135; Nov. 29; Sp. p. 6761; Gaz. vol. 160; p. 1151.
Schuster, George W. (See Keene and Schuster.)
Schuster, Guido, Besztercze, Austria-Hungary. Valve. No. 976,702; Nov. 22; Sp. p. 5753; Gaz. vol. 160; p. 974.
Schut, John, Chicago, Ill. Match-safe. No. 978,225; Dec. 13; Sp. p. 1746; Gaz. vol. 161; p. 307.
Schutt, Theodore H. (See Champ and Schutt.)
Schutt, Theodore H., assignor to The Bishop & Babcock Company, Cleveland, Ohio. Syrup-pump. No. 967,251; Aug. 16; Sp. p. 3048; Gaz. vol. 157; p. 528.
Schutte and Koerting Company. (See Fischer, Adalbert W., assignor.)
Schutte and Koerting Company. (See Fusch, Gustav, assignor.)
Schutte and Koerting Company. (See Schutte, Louis, assignor.)
Schutte, Louis, deceased; Guarantee Trust & Safe Deposit Co. and Mary D. Schutte, executors, assignors to Schutte and Koerting Company, Philadelphia, Pa. Safety-valve. No. 961,735; June 14; Sp. p. 3078; Gaz. vol. 155; p. 532.
Schutte, Mary D., *et al.*, executors. (See Schutte, Louis.)
Schütz, Otto von, Charlottenburg, assignor to Fichtel & Sachs, Schweinfurt, Germany. Ball-bearing. No. 968,271; Aug. 23; Sp. p. 5204; Gaz. vol. 157; p. 896.
Schutz, Rudolph G., Providence, R. I. Seamless plated taper and making same. No. 962,985; June 28; Sp. p. 5753; Gaz. vol. 155; p. 1007.
Schuyler, Daniel. (See Laughlin and Schuyler.)
Schuyler, Daniel, Bridgeport, Conn., assignor to The Perfect Sliding Door Company, Los Angeles, Cal. Fastening device for edgewise-moving closures and the like. No. 966,865; Aug. 9; Sp. p. 2239; Gaz. vol. 157; p. 368.
Schuyler, Daniel, and H. Laughlin, Jr., assignors to The Perfect Sliding Door Company, Los Angeles, Cal. Safety door-handle. No. 956,433; Apr. 26; Sp. p. 5948; Gaz. vol. 153; p. 1034.
Schuyler, Edward, Syracuse, and W. A. Hyle, assignors of one-third to L. R. Pratt, Buffalo, N. Y. Spring-wheel. No. 957,383; May 10; Sp. p. 1909; Gaz. vol. 154; p. 332.
Schuyler, James R., Bloomsburg, Pa. Trap. No. 968,990; Aug. 30; Sp. p. 6709; Gaz. vol. 157; p. 1168.
Schwab, Charles M., Oak Park, Ill. Device for raising bed-springs. No. 976,937; Nov. 29; Sp. p. 6309; Gaz. vol. 160; p. 1081.
Schwab, John, Winnipeg, Manitoba, Canada. Combined heating system for a plurality of boilers. No. 961,900; June 21; Sp. p. 3451; Gaz. vol. 155; p. 610.
Schwab, John M., Marion, Mass. Shaft-coupling. No. 969,662; Sept. 6; Sp. p. 1085; Gaz. vol. 158; p. 174.
Schwab, Martin C., Chicago, Ill. Safety device for elevators. No. 949,847; Feb. 22; Sp. p. 4322; Gaz. vol. 151; p. 779.
Schwab, Martin C., Chicago, Ill. Elevator. No. 974,439; Nov. 1; Sp. p. 820; Gaz. vol. 160; p. 123.
Schwab, Martin C., Baltimore, Md., assignor to Gravity Conveyor Company. Package-conveyer. No. 946,880; Jan. 18; Sp. p. 4209; Gaz. vol. 150; p. 693.
Schwab, Martin C., Chicago, Ill., assignor to Gravity Conveyor Company. Multiple gravity conveyer. No. 961,804; June 21; Sp. p. 3224; Gaz. vol. 155; p. 579.
Schwab, Martin C., Chicago, Ill., assignor to Gravity Conveyor Company. Deflector for gravity-conveyers. No. 975,800; Nov. 15; Sp. p. 3814; Gaz. vol. 160; p. 642.
Schwab, Martin C., Chicago, Ill., assignor to Gravity Conveyor Company. Gravity-conveyer having spiral blade of varying pitch. No. 979,711; Dec. 27; Sp. p. 4938; Gaz. vol. 161; p. 866.
Schwab, William, Rockaway, Ohio. Curtain-stretcher. No. 963,185; July 5; Sp. p. 401; Gaz. vol. 156; p. 57.
Schwaber, Joseph, Baltimore, Md. Leather-cutting machine. No. 964,061; July 12; Sp. p. 2279; Gaz. vol. 156; p. 375.
Schwabland, John. (See Overton, Jesse C., assignor.)
Schwahn, Heinrich F. D., Belleville, Ill. Electric furnace for metallurgical purposes. No. 962,532; June 28; Sp. p. 4847; Gaz. vol. 155; p. 852.
Schwahn, Heinrich F. D., Belleville, Ill. Manufacture of aluminum and its alloys. No. 964,566; July 19; Sp. p. 3365; Gaz. vol. 156; p. 575.
Schwalen, Peter C., Minneapolis, Minn. Window-cleaner. No. 970,563; Sept. 20; Sp. p. 3031; Gaz. vol. 158; p. 527.
Schwanda, Josef. (See Sgal and Schwanda.)
Schwander, Jacob N., Chicago, Ill., assignor, by mesne assignments, of one-half to J. S. Wallner, Cincinnati, Ohio. Shoe. No. 967,572; Aug. 16; Sp. p. 3704; Gaz. vol. 157; p. 637.
Schwandt, Richard S. (See Rengert and Schwandt.)
Schwanengel, Charles F., assignor of one-half to W. M. Butz, Dayton, Ohio. Hydraulic vise. No. 978,067; Dec. 6; Sp. p. 1385; Gaz. vol. 161; p. 223.
Schwanhausser, William, assignor to Henry R. Worthington, New York, N. Y. Condenser. No. 960,417; June 7; Sp. p. 363; Gaz. vol. 155; p. 61.
Schwank, Friedrich, *et al.* (See Altrichter, Johann, assignor.)
Schwannecke, Albert F., New York, N. Y. Ventilator and exhaust. No. 973,309; Oct. 18; Sp. p. 3960; Gaz. vol. 159; p. 677.
Schwark, Herman. (See Keller and Schwark.)
Schwartz, Adolf and J., Baltimore, Md. Horseshoe. No. 970,267; Sept. 13; Sp. p. 2418; Gaz. vol. 158; p. 407.
Schwartz, Bernard L. (See Menzl and Schwartz.)
Schwartz, Carl L., St. Louis, Mo. Car-bolster side bearing. No. 974,832; Nov. 8; Sp. p. 1695; Gaz. vol. 160; p. 285.
Schwartz, Carl L., St. Louis, Mo. Car-brake-beam safety-chain holder. No. 976,220; Nov. 22; Sp. p. 4703; Gaz. vol. 160; p. 809.
Schwartz, Carl L., St. Charles, assignor to Commonwealth Steel Company, St. Louis, Mo. Railway-car. No. 965,232; July 26; Sp. p. 4808; Gaz. vol. 156; p. 831.
Schwartz, Charles M. B., Brooklyn, N. Y. Transfer-ticket. No. 961,028; June 7; Sp. p. 1585; Gaz. vol. 155; p. 266.
Schwartz, Charles W., Jr., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Circulating-fan for drying and other machines. No. 951,029; Mar. 1; Sp. p. 1156; Gaz. vol. 152; p. 189.
Schwartz, Edward, Antwerp, Belgium, assignor of one-third to E. E. Clement, Washington, D. C. Telephone-receiver. No. 966,247; Aug. 2; Sp. p. 863; Gaz. vol. 157; p. 137.

Alphabetical list of patentees—Continued.

Schwartz, Edward C., Portland, Oreg. Street-indicator. No. 955,215; Apr. 19; Sp. p. 3281; Gaz. vol. 153; p. 587.
Schwartz, Fred G., Colorado City, Colo. Track-sanding appliance. No. 947,652; Jan. 25; Sp. p. 5904; Gaz. vol. 150; p. 980.
Schwartz, Frederick, and L. Kleinmann, New York, assignors to Shapiro & Aronson, Brooklyn, N. Y. Shock-absorber for tungsten-lamps. No. 957,110; May 3; Sp. p. 1302; Gaz. vol. 154; p. 208.
Schwartz, Henry H., Boston, Mass. Boot and shoe. No. 973,077; Oct. 18; Sp. p. 3447; Gaz. vol. 159; p. 597.
Schwartz, Herman, Newark, N. J. Novelty device. No. 978,943; Dec. 20; Sp. p. 3273; Gaz. vol. 161; p. 580.
Schwartz, Herman M., assignor, by mesne assignments, to F. N. Look, Northampton, W. A. Macleod, Westwood, Mass., and G. H. Burr, New York, N. Y., trustees. Die. No. 956,434; Apr. 26; Sp. p. 5950; Gaz. vol. 153; p. 1034.
Schwartz, Jacob. (See Schwartz, Adolf and J.)
Schwartz, James A. (See Newsam and Schwartz.)
Schwartz, Josef, Bay City, Mich. Carbureter. No. 952,547; Mar. 22; Sp. p. 4234; Gaz. vol. 152; p. 776.
Schwartz, Joseph. (See Leave, Andrew G., assignor.)
Schwartz, Joseph, Pittsburg, Pa. Washing-machine. No. 948,255; Feb. 1; Sp. p. 971; Gaz. vol. 151; p. 159.
Schwartz, Joseph, New York, N. Y. Penholder. No. 962,986; June 28; Sp. p. 5755; Gaz. vol. 155; p. 1007.
Schwartz, Maurice P., assignor of one-half to H. A. Helming, Indianapolis, Ind. Druggist's cabinet. No. 946,467; Jan. 11; Sp. p. 3294; Gaz. vol. 150; p. 529.
Schwartz, Mendel, assignor to S. J. Horn, New York, N. Y. Buckle. No. 971,694; Oct. 4; Sp. p. 379; Gaz. vol. 159; p. 67.
Schwartz, Nathan, Milford, Ill. Muffler. No. 968,199; Aug. 23; Sp. p. 5046; Gaz. vol. 157; p. 870.
Schwartz, Paul H., Big Sandy, Mont. Spring-support for vehicle bodies and seats. No. 946,881; Jan. 18; Sp. p. 4212; Gaz. vol. 150; p. 693.
Schwartz, R., *et al.* (See Williams, Josiah, assignor.)
Schwartz, Sigmund, assignor of one-half to V. E. Britton, San Francisco, Cal. Meter-shelf. No. 970,854; Sept. 20; Sp. p. 3686; Gaz. vol. 158; p. 629.
Schwartz, Walter M., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Conveyer. No. 945,616; Jan. 4; Sp. p. 1301; Gaz. vol. 150; p. 204.
Schwartz, York, Hanover, Germany. Photographic emulsion. No. 962,788; June 28; Sp. p. 5393; Gaz. vol. 155; p. 941.
Schwartz, York, Hanover, Germany, assignor to Synoloids Limited, London, England. Photographic emulsion. (Reissue.) No. 13,144; Aug. 16; Sp. p. 4309; Gaz. vol. 157; p. 737.
Schwartz, York, Hanover, Germany, assignor to Synoloids Limited, London, England. Photographic emulsion. (Reissue.) No. 13,162; Oct. 25; Sp. p. 5637; Gaz. vol. 159; p. 978.
Schwartzman, Edward, Tampa, Kans. Manure-fork. No. 978,661; Dec. 13; Sp. p. 2705; Gaz. vol. 161; p. 460.
Schwartzman, Harry, Baltimore, Md. Display-cabinet for photographs. No. 973,570; Oct. 25; Sp. p. 4523; Gaz. vol. 159; p. 790.
Schwarz, Carl A., Hancock, Mich. Motor and lazy-tongs elevator. No. 956,189; Apr. 26; Sp. p. 5435; Gaz. vol. 153; p. 951.
Schwarz, Conrad S., Philadelphia, Pa. Machine for cleaning hats. No. 958,327; May 17; Sp. p. 4223; Gaz. vol. 154; p. 689.
Schwarz, Frank, Chicago, Ill. Door-hinge. No. 956,738; May 3; Sp. p. 509; Gaz. vol. 154; p. 82.
Schwarz, Friedrich, and H. Tauss, Vienna, Austria-Hungary. Syringe. No. 974,531; Nov. 1; Sp. p. 1049; Gaz. vol. 160; p. 157.
Schwarz, Henry, Denver, Colo. Stuffing-box for roller-shafts. No. 970,564; Sept. 20; Sp. p. 3032; Gaz. vol. 158; p. 528.
Schwarzkopf, Arthur. (See Pfanschmidt and Schwarzkopf.)
Schwarzkopf, Charles. (See Hassack, Paul, assignor.)
Schwarzschild & Sulzberger Co. (See Dyck, George E., assignor.)
Schwears, John R., Sunman, Ind. Whip-socket lock. No. 955,701; Apr. 19; Sp. p. 4352; Gaz. vol. 153; p. 751.
Schweibold, Jacob. (See Schweibold, Martin and J.)
Schweibold, Martin and J., Philadelphia, Pa. Music-leaf turner. No. 960,719; June 7; Sp. p. 973; Gaz. vol. 155; p. 162.
Schweig, Edwin J., Minneapolis, Minn. Spout cut-off. No. 954,891; Apr. 12; Sp. p. 2625; Gaz. vol. 153; p. 446.
Schweiger, William F., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Check displayer and annunciator. No. 956,435; Apr. 26; Sp. p. 5952; Gaz. vol. 153; p. 1034.
Schweikert, William, Brooklyn, N. Y. Life-preserver. No. 967,983; Aug. 23; Sp. p. 4545; Gaz. vol. 157; p. 798.
Schweim, Herman, Detroit, Mich., assignor to Detroit Pneumatic Tool Company. Pneumatic tool. No. 945,815; Jan. 11; Sp. p. 1796; Gaz. vol. 150; p. 301.
Schweimler, Robert W., assignor to The Dow Wire & Iron Works, Louisville, Ky. Sliding door. No. 953,924; Apr. 5; Sp. p. 477; Gaz. vol. 153; p. 87.
Schweinert, Maximilian C., West Hoboken, N. J., and H. P. Kraft, New York, N. Y. Water-bottle stopper. No. 955,441; Apr. 19; Sp. p. 3766; Gaz. vol. 153; p. 661.
Schweiter, Jean, Horgen, near Zurich, Switzerland. Thread-tightening device for reeling and other textile machines. No. 948,580; Feb. 8; Sp. p. 1686; Gaz. vol. 151; p. 294.
Schweitzer, Edmund O., Chicago, Ill. Brush for dynamo-electric machines and the like. No. 974,833; Nov. 8; Sp. p. 1697; Gaz. vol. 160; p. 285.
Schweitzer, Heinrich, New York, N. Y. Porcelain crown for artificial teeth. No. 977,557; Dec. 6; Sp. p. 333; Gaz. vol. 161; p. 48.
Schweitzer, Heinrich, New York, N. Y. Making dental tooth-posts. No. 977,558; Dec. 6; Sp. p. 333; Gaz. vol. 161; p. 49.
Schweitzer, Herman J., Putney, S. D. Snow-fence. No. 979,036; Dec. 20; Sp. p. 3497; Gaz. vol. 161; p. 612.
Schweitzer, Richard H., Knightstown, Ind. Bulldozer. No. 979,099; Dec. 20; Sp. p. 3642; Gaz. vol. 161; p. 633.
Schweitzer, William, and H. H. Labadie, Chicago, Ill. One-piece bag. No. 947,045; Jan. 18; Sp. p. 4534; Gaz. vol. 150; p. 748.
Schweizer, John C., Trenton, N. J. Combined scrubber, mop, and wringer. No. 949,664; Feb. 15; Sp. p. 3915; Gaz. vol. 151; p. 682.
Schwemberger, Albert, New Albany, Ind., assignor of one-half to E. Nord, Louisville, Ky. Interfering-boot for horses. No. 966,607; Aug. 9; Sp. p. 1660; Gaz. vol. 157; p. 283.
Schwendeman, Eugene G., Oak Park, assignor to The American Asphalt Paving Company, Chicago, Ill. Process of and templet for use in laying pavements. No. 979,577; Dec. 27; Sp. p. 4670; Gaz. vol. 161; p. 820.
Schwenke, Paul, Zerbst, Germany. Electric igniter for explosive shells. No. 952,760; Mar. 22; Sp. p. 4704; Gaz. vol. 152; p. 850.
Schwennesen, Jacob, Chicago, Ill. Sofa-bed. No. 956,190; Apr. 26; Sp. p. 5436; Gaz. vol. 153; p. 951.
Schwenzfeier, Roman, Springfield, Mass. Safety-razor. No. 979,100; Dec. 20; Sp. p. 3644; Gaz. vol. 161; p. 634.
Schweppe, Louis C., Spokane, Wash. Train-order catcher. No. 947,999; Feb. 1; Sp. p. 457; Gaz. vol. 151; p. 74.
Schwer, Adolph. (See Darche and Schwer.)
Schwer, Frederick W., *et al.* (See Berry, Robert L. F., assignor.)
Schwerdtner, Oskar A. (See Hartmann and Schwerdtner.)
Schwerin, Botho, Frankfort-on-the-Main, Germany. Method of and apparatus for generating electricity. No. 972,029; Oct. 4; Sp. p. 1140; Gaz. vol. 159; p. 191.
Schwickerath, Karl, Bonn, Germany. Treating fish-flesh. No. 954,050; Apr. 5; Sp. p. 735; Gaz. vol. 153; p. 129.
Schwieger, Arnold, Berlin, Germany. Manufacture of plates of sheet metal and bands. No. 962,058; June 21; Sp. p. 3789; Gaz. vol. 155; p. 665.
Schwindt, Hugo. (See Damköhler and Schwindt.)
Schwinger, Abraham I., assignor of one-third to S. Schulein and one-third to S. Braunstein, New York, N. Y. Combined gas and electric fixture. No. 955,002; Apr. 12; Sp. p. 2851; Gaz. vol. 153; p. 483.
Schwinn, George, San Francisco, Cal. Lock-box. No. 976,102; Nov. 15; Sp. p. 4403; Gaz. vol. 160; p. 746.
Schwitzer, Louis, Indianapolis, Ind. Universal joint. No. 956,191; Apr. 26; Sp. p. 5438; Gaz. vol. 153; p. 952.
Schwob, Gaston, Cananea, Mexico. Lock. No. 967,066; Aug. 9; Sp. p. 2651; Gaz. vol. 157; p. 436.
Schwyzer, Fritz. (See Hübner, Robert, assignor.)
Scicluna, Joseph J., Buffalo, N. Y. Automatic catching and supporting device. No. 945,053; Jan. 4; Sp. p. 95; Gaz. vol. 150; p. 17.
Scientific Research Co., The. (See Radcliffe, Carlton R., assignor.)
Scientific Research Co., The. (See Ranney, Ambrose E., assignor.)
Scientific Research Co., The. (See Veitch, Thomas, assignor.)
Sciple, Henry M., Minneapolis, Minn. Burglar-alarm. No. 947,132; Jan. 18; Sp. p. 4689; Gaz. vol. 150; p. 774.
Scobee, James E., assignor to J. E. Johnson, Salt Lake City, Utah. Air-sanding device. No. 955,363; Apr. 19; Sp. p. 3601; Gaz. vol. 153; p. 636.
Scofield Company, The. (See Kuester, Albert C., assignor.)
Scollard, Thomas F., Warsaw, Ind. Rotary steam-valve. No. 960,717; June 7; Sp. p. 971; Gaz. vol. 155; p. 161.
Scopes, Alfred G., Ipswich, England. Embossing photographs or other pictures. No. 957,630; May 10; Sp. p. 2400; Gaz. vol. 154; p. 415.
Scotchmer, John H., Chicago, Ill. Fishing-reel. No. 948,026; Feb. 1; Sp. p. 512; Gaz. vol. 151; p. 83.
Scotchmer, John H., Chicago, Ill. Film-roll holder. No. 949,450; Feb. 15; Sp. p. 3504; Gaz. vol. 151; p. 612.
Scotford, Frederick E., Berkeley, Cal. Bottle. No. 947,421; Jan. 25; Sp. p. 5383; Gaz. vol. 150; p. 902.
Scott, Albert T., Waterville, Wash. Windmill. No. 955,289; Apr. 19; Sp. p. 3433; Gaz. vol. 153; p. 610.
Scott, Arthur F., Bradford, England. Internal-combustion engine. No 968,200; Aug. 23; Sp. p. 5048; Gaz. vol. 157; p. 870.
Scott, Burton W. (See Colton and Scott.)

Scott, Campbell, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Magnetic traction-wheel drive. No. 948,381; Feb. 8; Sp. p. 1267; Gaz. vol. 151; p. 228.

Scott, Campbell, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electromagnet. No. 961,805; June 21; Sp. p. 3226; Gaz. vol. 155; p. 579.

Scott, Campbell, and E. L. Gale, Sr., Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Automatic attachment for withdrawing punchings from punching-machines. No. 948,382; Feb. 8; Sp. p. 1270; Gaz. vol. 151; p. 229.

Scott, Charles F., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective means for electrical circuits. No. 969,498; Sept. 6; Sp. p. 735; Gaz. vol. 158; p. 116.

Scott, Charles F., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for neutralizing induced disturbances in intelligence-transmission circuits. No. 969,499; Sept. 6; Sp. p. 737; Gaz. vol. 158; p. 117.

Scott, Charles H., Gloucester, England. Pump. No. 954,051; Apr. 5; Sp. p. 736; Gaz. vol. 153; p. 129.

Scott, Clyde B., assignor of one-half to J. W. Nelson, Mercer, Pa. Rail-fastener. No. 974,301; Nov. 1; Sp. p. 501; Gaz. vol. 160; p. 74.

Scott, Daniel, *et al.* (See Gossett, William, assignor.)

Scott, David A. (See Best and Scott.)

Scott, David J., *et al.*, executors. (See Scott, Walter.)

Scott, Edward T., Pittsburg, Pa. Ventilator. No. 945,615; Jan. 4; Sp. p. 1299; Gaz. vol. 150; p. 203.

Scott, Effie, Philadelphia, Pa. Chest-protecting vest. No. 965,487; July 26; Sp. p. 5365; Gaz. vol. 156; p. 918.

Scott Electrical Company. (See Scott, Ralph, assignor.)

Scott, Frederick W., London, England. Scene-shifting apparatus. No. 979,209; Dec. 20; Sp. p. 3892; Gaz. vol. 161; p. 673.

Scott, George E., assignor of one-half to J. J. M. Myer, New York, N. Y. Joining-link for chains. No. 956,192; Apr. 26; Sp. p. 5439; Gaz. vol. 153; p. 952.

Scott, George H., assignor to Morgan Spring Company, Worcester, Mass. Machine for tapering coiled springs. No. 964,701; July 19; Sp. p. 3745; Gaz. vol. 156; p. 622.

Scott, George W., assignor to The Star Storm Front Company, Troy, Ohio. Storm-front for vehicles. No. 965,233; July 26; Sp. p. 4809; Gaz. vol. 156; p. 832.

Scott, Grace M., assignor of one-half to L. Helbeno, Washington, D. C. Diaper-cleaner. No. 956,831; May 3; Sp. p. 723; Gaz. vol. 154; p. 114.

Scott, Hal, and R. M. Boyer, Oskaloosa, Iowa. Tank-heater. No. 951,428; Mar. 8; Sp. p. 1967; Gaz. vol. 152; p. 342.

Scott, Hellen Y., Quincy, assignor to W. A. Scott, Apalachicola, Fla. Collar. No. 960,720; June 7; Sp. p. 978; Gaz. vol. 155; p. 163.

Scott, Isabella, *et al.*, executors. (See Scott, Walter.)

Scott, Jacob R., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Leather-skiving machine. No. 961,736; June 14; Sp. p. 3080; Gaz. vol. 155; p. 533.

Scott, Jacob R., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Leather-skiving machine. No. 969,987; Sept. 13; Sp. p. 1823; Gaz. vol. 158; p. 310.

Scott, James, Pittsburg, Pa. Blast-furnace. No. 964,885; July 19; Sp. p. 4122; Gaz. vol. 156; p. 686.

Scott, Jasper, Arbutus, assignor of one-half to B. H. Newcomer, Spring Hill, W. Va. Self-dumping apparatus. No. 961,652; June 14; Sp. p. 2914; Gaz. vol. 155; p. 504.

Scott, John H., assignor of one-half to J. B. Dyer, Winston Salem, N. C. Tobacco-shield. No. 958,015; May 17; Sp. p. 3320; Gaz. vol. 154; p. 578.

Scott, John J., assignor to The Victor Safe & Lock Company, Cincinnati, Ohio. Safe. No. 978,405; Dec. 13; Sp. p. 2138; Gaz. vol. 161; p. 372.

Scott, John R., Daleville, Ind. Rodent-trap. No. 958,016; May 17; Sp. p. 3321; Gaz. vol. 154; p. 578.

Scott, Joseph A. (See Hickok and Scott.)

Scott, Lewis F., assignor of one-fourth to A. E. Kirk, Rising Sun, Md. Milk-can lock. No. 967,844; Aug. 16; Sp. p. 4250; Gaz. vol. 157; p. 727.

Scott, Lisle T., assignor to The J. J. Freeman Company, Toledo, Ohio. Watch-winding machine. No. 949,781; Feb. 22; Sp. p. 4185; Gaz. vol. 151; p. 756.

Scott, Louis H., assignor to Illinois Concrete Machinery Company, Buda, Ill. Post-mold. No. 977,136; Nov. 29; Sp. p. 6767; Gaz. vol. 160; p. 1151.

Scott, Miles W., Adamsville, Ala. Dish. No. 948,434; Feb. 8; Sp. p. 1375; Gaz. vol. 151; p. 245.

Scott, Montezuma. (See Andrus, Frank, assignor.)

Scott, Oliver M., Kokomo, Ind. Combined fishing rod and reel. No. 970,356; Sept. 13; Sp. p. 2579; Gaz. vol. 158; p. 436.

Scott Paper Company. (See Liebeck, Harry, assignor.)

Scott, Paul C., Council Bluffs, Iowa. Advertising device. No. 978,662; Dec. 13; Sp. p. 2706; Gaz. vol. 161; p. 460.

Scott, Ralph, Newark, N. J., assignor, by mesne assignments, to Scott Electrical Company, New York, N. Y. Flaming-arc lamp. No. 975,165; Nov. 8; Sp. p. 2466; Gaz. vol. 160; p. 399.

Scott, Ray W., Brooklyn, and J. Sampere, assignors of one-third to J. Carruthers, New York, N. Y. Automatic controlling apparatus. No. 967,984; Aug. 23; Sp. p. 4547; Gaz. vol. 157; p. 798.

Scott, Robert F. (See Coes, Scott, and Thumlert.)

Scott, Robert F., assignor to Edwin Harrington, Son & Co., Inc., Philadelphia, Pa. Grapple. No. 973,709; Oct. 25; Sp. p. 4824; Gaz. vol. 159; p. 839.

Scott, Robert P., Cadiz, Ohio. Machine for hulling green peas on the vines. No. 957,442; May 10; Sp. p. 2032; Gaz. vol. 154; p. 352.

Scott, Robert P., Cadiz, Ohio. Green-pea-vine-hulling machine. No. 957,443; May 10; Sp. p. 2034; Gaz. vol. 154; p. 353.

Scott, Robert W., Mechanicsville, N. Y. Clothes-cleanser. No. 955,106; Apr. 12; Sp. p. 3034; Gaz. vol. 153; p. 515.

Scott, Robert W., London, England. Apparatus for reducing tin. No. 957,111; May 3; Sp. p. 1303; Gaz. vol. 154; p. 208.

Scott, Robert W., Leeds Point, N. J., assignor to General Knit Fabric Company, Utica, N. Y. Rib-knitting machine. No. 951,706; Mar. 8; Sp. p. 2502; Gaz. vol. 152; p. 435.

Scott, Robert W., Leeds Point, N. J., assignor of one-half to L. N. D. Williams, Ogontz, Pa. Knitted fabric. No. 955,702; Apr. 19; Sp. p. 4354; Gaz. vol. 153; p. 752.

Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Knitted web, hosiery, and making the same. No. 974,302; Nov. 1; Sp. p. 502; Gaz. vol. 160; p. 74.

Scott, Robert W., Leeds Point, assignor to Scott & Williams, Camden, N. J. Knitting-machine needle. No. 975,466; Nov. 15; Sp. p. 3096; Gaz. vol. 160; p. 529.

Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Knitting-machine. No. 976,607; Nov. 22; Sp. p. 5577; Gaz vol. 160; p. 943.

Scott, Samuel J., assignor of one-third to J. O. Sloan and one-third to I. N. Gatrell, Columbus, Ohio. Moving advertising device. No. 964,320; July 12; Sp. p. 2805; Gaz. vol. 156; p. 462.

Scott, Samuel J., assignor of one-third to J. O. Sloan and one-third to I. N. Gatrell, Columbus, Ohio. Moving advertising device. No. 972,258; Oct. 11; Sp. p. 1632; Gaz. vol. 159; p. 287.

Scott, Semple S., Chicago, Ill. Transmission-gearing. No. 950,144; Feb. 22; Sp. p. 5017; Gaz. vol. 151; p. 882.

Scott, Semple S., Chicago, Ill. Cooling attachment for explosive-engines. No. 973,820; Oct. 25; Sp. p. 5045; Gaz. vol. 159; p. 877.

Scott-Snell, Charles. (See Stuart and Scott-Snell.)

Scott, Thomas A., Cadiz, Ohio. Green-pea-vine-hulling machine. No. 957,444; May 10; Sp. p. 2036; Gaz. vol. 154; p. 353.

Scott, Thomas S. (See Psilander and Scott.)

Scott, Thomas S., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-pressure appliance. No. 975,467; Nov. 15; Sp. p. 3097; Gaz. vol. 160; p. 529.

Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Stereotype-plate-casting apparatus. No. 951,382; Mar. 8; Sp. p. 1876; Gaz. vol. 152; p. 327.

Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Printing-machine. No. 952,218; Mar. 15; Sp. p. 3538; Gaz. vol. 152; p. 637.

Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Folding and delivery mechanism. No. 952,714; Mar. 22; Sp. p. 4603; Gaz. vol. 152; p. 835.

Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Delivery mechanism. No. 956,193; Apr. 26; Sp. p. 5440; Gaz. vol. 153; p. 952.

Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Printing-machine. No. 970,125; Sept. 13; Sp. p. 2099; Gaz. vol. 158; p. 357.

Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Printing-machine. No. 970,652; Sept. 20; Sp. p. 3238; Gaz. vol. 158; p. 558.

Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Delivery mechanism. No. 971,220; Sept. 27; Sp. p. 4438; Gaz. vol. 158; p. 777.

Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Multicouple multirevolution printing-machine. No. 975,294; Nov. 8; Sp. p. 2736; Gaz. vol. 160; p. 443.

Scott, Walter, deceased; I. and D. J. Scott, Plainfield, N. J., executors. Metal-melting furnace. No. 979,101; Dec. 20; Sp. p. 3647; Gaz. vol. 161; p. 634.

Scott, William, Medford, Mass. Thread-cutting die. No. 968,701; Aug. 30; Sp. p. 6139; Gaz. vol. 157; p. 1071.

Scott, William, Siegfried, Pa. Bag-cleaner. No. 974,096; Oct. 25; Sp. p. 5612; Gaz. vol. 159; p. 973.

Scott, William A. (See Scott, Hellen Y., assignor.)

Scott, William A., Omaha, Nebr. Bracket. No. 961,319; June 14; Sp. p. 2219; Gaz. vol. 155; p. 393.

Scott, William A., Jr., assignor to American Car Screen Company, Pittsburg, Pa. Ventilator. (Reissue.) No. 13,179; Dec. 6; Sp. p. 1528; Gaz. vol. 161; p. 246.

Scott, William B., Los Angeles, Cal. Coupling for pump-rods. No. 971,794; Oct. 4; Sp. p. 593; Gaz. vol. 159; p. 104.

Alphabetical list of patentees—Continued.

Scott, William F., Toronto, Ontario, Canada. Reinforced concrete. No. 956,194; Apr. 26; Sp. p. 5444; Gaz. vol. 153; p. 953.
Scott, William H., Norwich, England. Electric-circuit breaker. No. 959,171; May 24; Sp. p. 5985; Gaz. vol. 154; p. 1000.
Scott, William H., Maplewood, Mo., assignor to American Diagraph Company. Stencil-cutting machine. No. 955,216; Apr. 19; Sp. p. 3282; Gaz. vol. 153; p. 587.
Scott, William H., Maplewood, assignor to A. C. L., L. H., E. T., and W. H. Haase, A. Riesmeyer, St. Louis, Mo., and A. Marx, Chicago, Ill. Marking-pot. No. 976,504; Nov. 22; Sp. p. 5354; Gaz. vol. 160; p. 908.
Scott, William M., Philadelphia, Pa., assignor to The Cutler Electrical and Manufacturing Company. Switch construction. No. 946,157; Jan. 11; Sp. p. 2521; Gaz. vol. 150; p. 420.
Scott, William M., Philadelphia, Pa., assignor to The Cutter Electrical and Manufacturing Company. Switchboard construction. No. 962,473; June 28; Sp. p. 4717; Gaz. vol. 155; p. 831.
Scott, William M., Philadelphia, Pa., assignor to The Cutter Electrical and Manufacturing Company. Circuit-breaking mechanism. No. 963,476; July 5; Sp. p. 1026; Gaz. vol. 156; p. 155.
Scott, William M., Philadelphia, Pa., assignor to The Cutter Electrical and Manufacturing Company. Electric switch. No. 965,234; July 26; Sp. p. 4811; Gaz. vol. 156; p. 832.
Scott, William M., Philadelphia, Pa., assignor to Cutter Electrical & Manufacturing Company. Automatic magnetic circuit-breaker. No. 966,708; Aug. 9; Sp. p. 1854; Gaz. vol. 157; p. 317.
Scott, William M., Philadelphia, Pa., assignor to The Cutter Electrical and Manufacturing Company. Electric switch. No. 974,528; Nov. 1; Sp. p. 1041; Gaz. vol. 160; p. 156.
Scott, William T., Parkersburg, Iowa. Loading apparatus. No. 971,568; Oct. 4; Sp. p. 128; Gaz. vol. 159; p. 24.
Scott, William W. (See Hudson, Thomas J., assignor.)
Scott, William W., Hampton, Va. Vehicle-tire. No. 952,951; Mar. 22; Sp. p. 5095; Gaz. vol. 152; p. 915.
Scott & Williams. (See Costello, Loretto A., assignor.)
Scott & Williams. (See Musgrove, Arthur S., assignor.)
Scott & Williams. (See Scott, Robert W., assignor.)
Scott, Wilson A., Murray, Nebr. Fur-stretcher. No. 962,391; June 21; Sp. p. 4507; Gaz. vol. 155; p. 778.
Scovel, James D., Detroit, Mich. Animal-shears. No. 971,931; Oct. 4; Sp. p. 920; Gaz. vol. 159; p. 156.
Scovill, James E., Chicago, Ill. Circuit make-and-break device. No. 957,578; May 10; Sp. p. 2295; Gaz. vol. 154; p. 398.
Scovill, James P., Wyoming, assignor, by mesne assignments, to The Ceramic Machinery Company, Hamilton, Ohio. Feed mechanism for tile-coating machines. No. 945,870; Jan. 11; Sp. p. 1929; Gaz. vol. 150; p. 320.
Scovill, James P., Wyoming, assignor, by mesne assignments, to The Ceramic Machinery Company, Hamilton, Ohio. Tile-coating machinery. No. 973,710; Oct. 25; Sp. p. 4825; Gaz. vol. 159; p. 839.
Scovill Manufacturing Company. (See Cordley and Long, assignors.)
Scovill Manufacturing Company. (See Goss, George A., assignor.)
Scovill Manufacturing Company. (See Goss, John H., assignor.)
Scovill Manufacturing Company. (See Goss and Leggett, assignors.)
Scovill Manufacturing Company. (See Long, George R., assignor.)
Scovill Manufacturing Company. (See Long and Austin, assignors.)
Scovill Manufacturing Company. (See Plowman, Albert E., assignor.)
Scovill Manufacturing Company. (See Sanderson, Edward S., assignor.)
Scovill, Royal J. (See Brown and Scovill.)
Scrafford, Daniel E., assignor, by mesne assignments, to Willis Electric Meter Company, Chicago, Ill. Indicating mechanism. No. 947,948; Feb. 1; Sp. p. 357; Gaz. vol. 151; p. 57.
Scrafford, Daniel E., Peoria, assignor, by mesne assignments, to Willis Electric Meter Company, Chicago, Ill. Register. No. 950,160; Feb. 22; Sp. p. 5061; Gaz. vol. 151; p. 888.
Scranton Steam Pump Company. (See Johnson, Thomas S., assignor.)
Scribner, John H., St. John, New Brunswick, assignor to H. A. McArthur and S. H. White, Sussex, Canada. Loose-link ladder. No. 950,731; Mar. 1; Sp. p. 586; Gaz. vol. 152; p. 92.
Scrimgeour, William, Portsmouth, assignor to Mircs Fuel-Oil Equipment Company, Norfolk, Va. Liquid-fuel burner. No. 976,221; Nov. 22; Sp. p. 4704; Gaz. vol. 160; p. 809.
Scrivenor, Arthur, Richmond, Va. Sand-retaining device for foundry-flasks. No. 947,261; Jan. 25; Sp. p. 4981; Gaz. vol. 150; p. 846.
Scroggie, George, San Diego, Cal. Clothes-drier. No. 975,575; Nov. 15; Sp. p. 3344; Gaz. vol. 160; p. 567.
Scruggs, Edward C., Nashville, Tenn. Guard-rail clamp. No. 979,343; Dec. 20; Sp. p. 4164; Gaz. vol. 161; p. 718.
Scullen, John, *et al.* (See Misner, Edgar D., assignor.)
Scullin-Gallagher Iron & Steel Company. (See De la Hunty, Thomas, assignor.)
Scullin-Gallagher Iron & Steel Company. (See Shallenberger, Charles S., assignor.)
Scullin, Harry, St. Louis, Mo. Vehicle-wheel. No. 970,126; Sept. 13; Sp. p. 2102; Gaz. vol. 158; p. 358.
Scully, Alexander B., *et al.* (See Patterson, Franklin M., assignor).
Scully, John, Minneapolis, Minn. Fire-escape. No. 972,576; Oct. 11; Sp. p. 2329; Gaz. vol. 159; p. 399.
Scureman, Joseph B., Nanticoke, Pa. Window-ventilator. No. 971,412; Sept. 27; Sp. p. 4794; Gaz. vol. 158; p. 839.
Scurlock, William R., Chicago, Ill. Window-lock. No. 954,892; Apr. 12; Sp. p. 2625; Gaz. vol. 153; p. 446.
Scutt, Alton R., Corbett, Va. Bottle-filling device. No. 950,161; Feb. 22; Sp. p. 5064; Gaz. vol. 151; p. 889.
Seaberg, Frederick, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 953,182; Mar. 29; Sp. p. 5606; Gaz. vol. 152; p. 1019.
Seaberg, Frederick, Chicago, Ill., assignor to National Dump Car Door Company. Dump-door-operating mechanism. No. 965,023; July 19; Sp. p. 4383; Gaz. vol. 156; p. 731.
Seaberg, Frederick, assignor, by mesne assignments, to S. Otis, Chicago, Ill. Dump-car. No. 974,097; Oct. 25; Sp. p. 5614; Gaz. vol. 159; p. 973.
Seabrook, Bagster R., Los Angeles, Cal. Differential railway-axle. No. 956,195; Apr. 26; Sp. p. 5445; Gaz. vol. 153; p. 953.
Seabrook, Bagster R., Los Angeles, Cal. Separating axle-couplings. No. 961,375; June 14; Sp. p. 2334; Gaz. vol. 155; p. 412.
Seabrook, Norman B., Los Angeles, Cal. Differential axle. No. 961,376; June 14; Sp. p. 2335; Gaz. vol. 155; p. 413.
Seagrave Company, The. (See Foss, Clarence M., assignor.)
Seagrave Company, The. (See Probst, Karl, assignor.)
Seagrave, Frederic S., Detroit, Mich. Hydrant and hose cut-off valve. No. 961,901; June 21; Sp. p. 3453; Gaz. vol. 155; p. 611.
Seale, Daniel H. (See Murphy and Seale.)
Seals, Charles, Lovilia, Iowa. Coal and rock drilling machine. No. 959,079; May 24; Sp. p. 5790; Gaz. vol. 154; p. 970.
Seals, Charles, assignor of one-half to W. Livix, Lovilia, Iowa. Drill. No. 970,401; Sept. 13; Sp. p. 2665; Gaz. vol. 158; p. 450.
Sealshipt Oyster System. (See Hulbert, Edwin F., assignor.)
Seaman, James C., Collinwood, Ohio. Lightning-arrester. No. 953,301; Mar. 29; Sp. p. 5852; Gaz. vol. 152; p. 1057.
Seaman, James H., Prince Bay, N. Y. Alcohol-lamp. No. 950,561; Mar. 1; Sp. p. 212; Gaz. vol. 152; p. 35.
Seaman, Morris B., and G. Cohen, Meridan, Conn. Shoe-cleaning device. No. 972,474; Oct. 11; Sp. p. 2076; Gaz. vol. 159; p. 361.
Search, Charles E., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 972,929; Oct. 18; Sp. p. 3134; Gaz. vol. 159; p. 548.
Searchlight Gas Company. (See Watson, Herbert, assignor.)
Searight, Frank. (See Jackson, Laird J., assignor.)
Searing, Eugene P. (See Porter, Alonzo E., assignor.)
Searing, Eugene P. (See Porter and Searing.)
Searle, Elbert H., Springfield, Mass. Air-gun. No. 959,889; May 31; Sp. p. 7491; Gaz. vol. 154; p. 1266.
Searle, Frank, Ennis, Mont. Shelter or sleeping tent. No. 979,037; Dec. 20; Sp. p. 3499; Gaz. vol. 161; p. 612.
Searle, Harry A., assignor to Monarch Manufacturing Company, Council Bluffs, Iowa. Detachable pouring-spout. No. 945,346; Jan. 4; Sp. p. 747; Gaz. vol. 150; p. 114.
Searle, Joseph H., Minersville, Pa. Lubricator. No. 956,436; Apr. 26; Sp. p. 5960; Gaz. vol. 153; p. 1035.
Searle, Robert M., Mount Vernon, N. Y. Water-gas apparatus. No. 969,411; Sept. 6; Sp. p. 553; Gaz. vol. 158; p. 89.
Searles, Arthur, Philadelphia, Pa. Chair. No. 959,619; May 31; Sp. p. 6905; Gaz. vol. 154; p. 1175.
Sears, Clarence E., assignor of one-half to J. E. Plew, Chicago, Ill. Portable baker's oven. No. 955,917; Apr. 26; Sp. p. 4830; Gaz. vol. 153; p. 855.
Sears, George H., assignor of three-fourths to A. E. Huther and W. B. Huther, Rochester, N. Y. Calculating-machine. No. 961,806; June 21; Sp. p. 3228; Gaz. vol. 155; p. 579.
Sears, Homer A., Portland, Oreg. Bedstead. (Reissue.) No. 13,087; Mar. 1; Sp. p. 1288; Gaz. vol. 152; p. 211.
Sears, John E., Jr., Newcastle-upon-Tyne, England. Internal-combustion engine. No. 977,334; Nov. 29; Sp. p. 7162; Gaz. vol. 160; p. 1218.
Sears, Martin, Los Angeles, Cal. Explosion-engine. No. 968,702; Aug. 30; Sp. p. 6141; Gaz. vol. 157; p. 1072.
Sears, Roebuck & Co. (See Martin, Thomas A., assignor.)
Sears, Roebuck & Company. (See Christensen, Carl, assignor.)

Alphabetical list of patentees—Continued.

Sears, Willard T. (See Stebbins and Sears.)
Sears, Willard T., Philadelphia, Pa, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped wheel. No. 957,384; May 10; Sp. p. 1912; Gaz. vol. 154; p. 333.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Hydraulic intensifier. No. 966,059; Aug. 2; Sp. p. 470; Gaz. vol. 157; p. 75.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Car-wheel lathe. No. 967,573; Aug. 16; Sp. p. 3705; Gaz. vol. 157; p. 638.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped gear. No. 972,259; Oct. 11; Sp. p. 1634; Gaz. vol. 159; p. 287.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped gear. No. 972,260; Oct. 11; Sp. p. 1635; Gaz. vol. 159; p. 288.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped gear. No. 972,261; Oct. 11; Sp. p. 1636; Gaz. vol. 159; p. 288.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped gear. No. 972,262; Oct. 11; Sp. p. 1637; Gaz. vol. 159; p. 288.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped gear. No. 972,263; Oct. 11; Sp. p. 1638; Gaz. vol. 159; p. 289.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped gear. No. 975,722; Nov. 15; Sp. p. 3648; Gaz. vol. 160; p. 615.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped gear. No. 975,723; Nov. 15; Sp. p. 3650; Gaz. vol. 160; p. 615.
Sears, Willard T., Philadelphia, Pa., and H. J. Ruch, Woodbury, assignors to Niles-Bement-Pond Company, Jersey City, N. J. Boring or drilling machine. No. 953,183; Mar. 29; Sp. p. 5607; Gaz. vol. 152; p. 1019.
Sears, William. (See Carlson, Carl J. E., assignor.)
Searway, Alex A., Buffalo Creek, Colo. Manually-operated railway-brake. No. 970,402; Sept. 13; Sp. p. 2666; Gaz. vol. 158; p. 451.
Seattle Car Manufacturing Company. (See Chriswell, Frederick W., assignor.)
Seaver, John W. (See Moore, James E. A., assignor.)
Seavey, Eugene, New York, N. Y. Drill gage-plate. No. 973,078; Oct. 18; Sp. p. 3448; Gaz. vol. 159; p. 597.
Seawell, James, assignor to H. M. Sneed, Nashville, Tenn. Game device. No. 980,014; Dec. 27; Sp. p. 5600; Gaz. vol. 161; p. 968.
Seay, Thomas N., Columbia, S. C. Cotton-planter. No. 970,268; Sept. 13; Sp. p. 2420; Gaz. vol. 158; p. 407.
Seberg, Aron G. and E. G., Racine, Wis. Ore-separating machine. No. 964,567; July 19; Sp. p. 3368; Gaz. vol. 156; p. 575.
Seberg, Aron G. and E. G., Racine, Wis. Drilling-machine. No. 976,703; Nov. 22; Sp. p. 5755; Gaz. vol. 160; p. 975.
Seberg, Edwin G. (See Seberg, Aron G. and E. G.)
Sebring, James A., assignor to The Bishop & Babcock Company, Cleveland, Ohio. Cover-raising device. No. 963,079; July 5; Sp. p. 108; Gaz. vol. 156; p. 19.
Seburn, Harvey T., Indianapolis, Ind. Threshing-machine. No. 963,080; July 5; Sp. p. 109; Gaz. vol. 156; p. 20.
Sechler, William H., Bluffton, Ind. Follow-board scriber. No. 967,448; Aug. 16; Sp. p. 3448; Gaz. vol. 157; p. 594.
Sechrist, A. G. (See Fleak, Glen, assignor.)
Seckendorff, Hermann, Hanover, Germany. Combined bootjack and foot-rest. No. 960,042; May 31; Sp. p. 7867; Gaz. vol. 154; p. 1321.
Secor, Jerome B., assignor to The Williams Typewriter Company, Derby, Conn. Ribbon-feeding mechanism. No. 952,281; Mar. 15; Sp. p. 3673; Gaz. vol. 152; p. 658.
Secrest, Lincoln D., Martinsville, Ill. Cooling apparatus for provisions. No. 948,581; Feb. 8; Sp. p. 1687; Gaz. vol. 151; p. 294.
Secrist, Richard, Hemlock, Ohio. Coal-drill support. No. 965,024; July 19; Sp. p. 4385; Gaz. vol. 156; p. 732.
Security Trust Company, administrator. (See Lowry and Bernhard.)
Securo Manufacturing Company. (See Hammond, William P., assignor.)
Seddon, George F., Holborn, assignor to S. Ford, London, England. Nut-lock. No. 964,062; July 12; Sp. p. 2282; Gaz. vol. 156; p. 375.
Seddon, Harry I., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 945,986; Jan. 11; Sp. p. 2175; Gaz. vol. 150; p. 362.
Sedgwick, Harry A., Milwaukee, Wis., assignor to Ajax Electric Tool Company, Huron, S. D. Striking mechanism. No. 975,372; Nov. 8; Sp. p. 2903; Gaz. vol. 160; p. 469.
See, Albert Z., Markesan, Wis. Computing-machine. No. 948,077; Feb. 1; Sp. p. 622; Gaz. vol. 151; p. 101.
See, Charles A., Chicago, Ill. Pencil-extender. No. 945,617; Jan. 4; Sp. p. 1303; Gaz. vol. 150; p. 204.
See, Frank M. (See Muenzenmaier and See.)
See, James W. (See Bullard, Walter S., assignor.)
See, William T., Meadville, Pa. Train-order-delivering device. No. 972,654; Oct. 11; Sp. p. 2493; Gaz. vol. 159; p. 425.
Seeberger, Charles D., Yonkers, N. Y. Elevator. No. 950,796; Mar. 1; Sp. p. 726; Gaz. vol. 152; p. 116.
Seeberger, Charles D., Yonkers, N. Y. Conveyer. No. 951,744; Mar. 8; Sp. p. 2595; Gaz. vol. 152; p. 448.
Seeberger, Charles D., Yonkers, N. Y. Conveyer system. No. 951,745; Mar. 8; Sp. p. 2597; Gaz. vol. 152; p. 449.
Seeberger, Charles D., Yonkers, N. Y. Conveyer. No. 956,606; May 3; Sp. p. 215; Gaz. vol. 154; p. 37.
Seeberger, Charles D., Yonkers, N. Y. Conveyer. No. 972,475; Oct. 11; Sp. p. 2079; Gaz. vol. 159; p. 362.
Seeberger, Charles D., Yonkers, N. Y. Conveyer. No. 973,079; Oct. 18; Sp. p. 3449; Gaz. vol. 159; p. 598.
Seeberger, Charles D., Yonkers, N. Y. Conveyer. No. 977,047; Nov. 29; Sp. p. 6560; Gaz. vol. 160; p. 1120.
Seeberger, Eugen. (See Cahn and Seeberger.)
Seeders, Zephaniah C., Pilot Point, Tex. Spring-motor. No. 969,201; Sept. 6; Sp. p. 130; Gaz. vol. 158; p. 21.
Seeger, August C., assignor of one-half to W. H. Froggatt, East St. Louis, Ill. Car-fender. No. 949,200; Feb. 15; Sp. p. 2978; Gaz. vol. 151; p. 527.
Seeger, Erich. (See D'Abreu and Seeger.)
Seel, George. (See Jones and Seel.)
Seeley, Abner M. (See Durand and Seeley.)
Seeley, Frank E., assignor to The Bryant Electric Company, Bridgeport, Conn. Multiple lamp-socket. No. 945,618; Jan. 4; Sp. p. 1304; Gaz. vol. 150; p. 204.
Seeley, Frank E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket. No. 957,719; May 10; Sp. p. 2581; Gaz. vol. 154; p. 447.
Seeley, Frank E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electrical fixture. No. 972,577; Oct. 11; Sp. p. 2333; Gaz. vol. 159; p. 399.
Seeley, Frank E., assignor to The Perkins Electric Switch Company, Bridgeport, Conn. Attachment-plug. No. 952,952; Mar. 22; Sp. p. 5096; Gaz. vol. 152; p. 915.
Seeley, Frank E., assignor to The Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Pendent electric switch. No. 962,923; June 28; Sp. p. 5638; Gaz. vol. 155; p. 987.
Seeley, Franklyn H., Chicago, Ill. Half-hose supporter. No. 976,505; Nov. 22; Sp. p. 5355; Gaz. vol. 160; p. 908.
Seeley, Herbert E. (See McSweeney and Seeley.)
Seeley, Isaac B., Chicago, Ill. Ventilating-screen for doors. No. 956,437; Apr. 26; Sp. p. 5961; Gaz. vol. 153; p. 1035.
Seeley, James E., assignor to High Frequency Ignition Coil Company, Los Angeles, Cal. Circuit-interrupter for electric sparking devices. No. 961,902; June 21; Sp. p. 3454; Gaz. vol. 155; p. 611.
Seeley, James E., assignor to High Frequency Ignition Coil Company, Los Angeles, Cal. Spark-plug for internal-combustion engines. No. 978,494; Dec. 13; Sp. p. 2328; Gaz. vol. 161; p. 401.
Seeley, Roy C., Hollywood, Cal. Sad-iron. No. 966,866; Aug. 9; Sp. p. 2241; Gaz. vol. 157; p. 368.
Seeley, Walter B., Philadelphia, Pa. Match-box holder. No. 965,603; July 26; Sp. p. 5639; Gaz. vol. 156; p. 960.
Seelig, John G. (See Wyman, William H., assignor.)
Seely, Arthur Y., Blaine, Wash. Feeder for can-lacquering machines. No. 967,449; Aug. 16; Sp. p. 3450; Gaz. vol. 157; p. 594.
Seely, John B., assignor of one-third to E. W. Strickland, Hammonton, N. J., and one-third to G. King, Philadelphia, Pa. Car-truck. No. 953,555; Mar. 29; Sp. p. 6403; Gaz. vol. 152; p. 1147.
Seely, Thomas H., assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Lasting-machine. No. 945,291; Jan. 4; Sp. p. 589; Gaz. vol. 150; p. 97.
Seely, Thomas H., assignor to T. G. Plant, Boston, Mass. Pincer mechanism for lasting-machines. No. 958,017; May 17; Sp. p. 3322; Gaz. vol. 154; p. 579.
Seely, Thomas H., assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Pincer or gripper mechanism for lasting-machines. No. 958,187; May 17; Sp. p. 3783; Gaz. vol. 154; p. 639.
Seelye, Nelson H., Winchester, and W. H. Sneeston, Somerville, Mass.; said Sneeston assignor to said Seelye. Die-press. No. 969,412; Sept. 6; Sp. p. 554; Gaz. vol. 158; p. 89.
Seelye, William E., Coeur d'Alene, Idaho. Steam-turbine. No. 947,355; Jan. 25; Sp. p. 5229; Gaz. vol. 150; p. 881.
Seelye, William E., Coeur d'Alene, Idaho. Water-wheel. No. 955,478; Apr. 19; Sp. p. 3842; Gaz. vol. 153; p. 676.
Seep, Joseph. (See Wilfley, Arthur R., assignor.)
Seessle, Gustav A., assignor of one-half to T. Angst, Chicago, Ill. Insulation-clipping pliers. No. 946,074; Jan. 11; Sp. p. 2360; Gaz. vol. 150; p. 392.
Seevers, Thomas, Oskaloosa, Iowa. Steam-boiler furnace. No. 946,525; Jan. 11; Sp. p. 3421; Gaz. vol. 150; p. 548.
Sefton Manufacturing Company, The. (See Ferres, Jeffrey T., assignor.)
Sefton Manufacturing Company, The. (See Reber, John G., assignor.)

Alphabetical list of patentees—Continued.

Segal, Maurice, and F. C. Walker, Buffalo, N. Y.; said Walker assignor to said Segal. Automatic train-pipe coupling. No. 976,402; Nov. 22; Sp. p. 5148; Gaz. vol. 160; p. 873.
Segale, Carlo, San Francisco, Cal. Cheese-cutting device. No. 960,589; June 7; Sp. p. 717; Gaz. vol. 155; p. 118.
Segesman, John G., and G. Binggeli, Salem, Ohio. Hospital or invalid's bed. No. 970,357; Sept. 13; Sp. p. 2581; Gaz. vol. 158; p. 436.
Segessmann, Arnold C., Amazonia, Mo. Egg-case. No. 946,739; Jan. 18; Sp. p. 3855; Gaz. vol. 150; p. 643.
Segesváry, Ernst, Bremen, Germany. Hot-water heating system. No. 947,582; Jan. 25; Sp. p. 5755; Gaz. vol. 150; p. 956.
Segesváry, Ernst, Bremen, Germany. Device for automatically regulating heating mediums by an expansible fluid in a thermostat. No. 950,306; Feb. 22; Sp. p. 5358; Gaz. vol. 151; p. 940.
Segnar, Harry R. (See Mintier and Jennings, assignors.)
Segraves, George P., Perry, Kans. Switch mechanism for railways. No. 970,653; Sept. 20; Sp. p. 3241; Gaz. vol. 158; p. 558.
Segsworth, Robert F. (See Emery, William H., assignor.)
Seguin, Louis L. A., assignor to Societe des Moteurs Gnome, Paris, France. Rotary engine. No. 959,172; May 24; Sp. p. 5989; Gaz. vol. 154; p. 1001
Sehnert, Fred L., and G. J. McManus, Houston, Tex., assignors of ninety-five one-hundredths to said McManus and five one-hundredths to said Sehnert. Pipe connection. No. 960,204; May 31; Sp. p. 8170; Gaz. vol. 154; p. 1375.
Sehr, Franz, Blankenhain, near Weimar, Germany. Manufacture of filters. No. 972,723; Oct. 11; Sp. p. 2644; Gaz. vol. 159; p. 449.
Seib, George A., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 947,499; Jan. 25; Sp. p. 5586; Gaz. vol. 150; p. 928.
Seib, George A., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 949,008; Feb. 15; Sp. p. 2587; Gaz. vol. 151; p. 465.
Seib, George A., Ilion, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 962,591; June 28; Sp. p. 4984; Gaz. vol. 155; p. 872.
Seib, George A., Ilion, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 963,328; July 5; Sp. p. 735; Gaz. vol. 156; p. 106.
Seib, George A., Ilion, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 972,578; Oct. 11; Sp. p. 2335; Gaz. vol. 159; p. 400.
Seib, George A., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 971,932; Oct. 4; Sp. p. 921; Gaz. vol. 159; p. 156.
Seib, George A., and J. W. Koerner, assignors to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 978,944; Dec. 20; Sp. p. 3274; Gaz. vol. 161; p. 580.
Seibel, Albert C., East St. Louis, assignor of seven-eighths to A. Pensoneau, French Village, Ill. Brick-cheese cutter. No. 954,052; Apr. 5; Sp. p. 738; Gaz. vol. 153; p. 129.
Seiberling, Frank A., and W. C. State, Akron, Ohio; said State assignor to said Seiberling. Making tire-shoes. No. 948,064; Feb. 1; Sp. p. 602; Gaz. vol. 151; p. 96.
Seibert, Bennett F., Mansfield, Ohio. Truck. No. 961,807; June 21; Sp. p. 3248; Gaz. vol. 155; p. 580.
Seibert, Edward H., St. Louis, Mo. Crutch-tip. No. 956,438; Apr. 26; Sp. p. 5963; Gaz. vol. 153; p. 1035.
Seibert, William N., Pittsburg, Pa. Hat-pin. No. 962,987; June 28; Sp. p. 5756; Gaz. vol. 155; p. 1008.
Seibold, Frank, *et al.* (See Sprinzel, Hermann, assignor.)
Seidel, Albin, assignor to The Becker-Seidel Company, Cleveland, Ohio. Radiator-hanger. No. 950,494; Mar. 1; Sp. p. 68; Gaz. vol. 152; p. 12.
Seidel, Albin, assignor to The Becker-Seidel Company, Cleveland, Ohio. Rack or hanger for pipes, poles, rods, and other objects. No. 950,517; Mar. 1; Sp. p. 121; Gaz. vol. 152; p. 20.
Seidel, Isadore, Clayton, Wash. Automatic pipe-coupling. No. 966,131; Aug. 2; Sp. p. 598; Gaz. vol. 157; p. 99.
Seidel Machine Company. (See Seidel, William, assignor.)
Seidel, William, assignor to Seidel Machine Company, Chicago, Ill. Bottle-washing machine. No. 970,758; Sept. 20; Sp p. 3477; Gaz. vol. 158; p. 595.
Seifert, Bruno R., and H. Hähle, assignors to Chemische Fabrik von Heyden, Aktiengesellschaft, Radebeul, near Dresden, Germany. Making pure ortho- and para-guaiacol sulfonic salts. No. 962,103; June 21; Sp. p. 3891; Gaz. vol. 155; p. 680.
Seifert, Henry, Weimar, Tex. Saw-filing machine. No. 979,892; Dec. 27; Sp. p. 5362; Gaz. vol. 161; p. 927.
Seifert, Jakob, Gochsheim, Germany. Fastener for cravats and the like. No. 953,716; Apr. 5; Sp. p. 64; Gaz. vol. 153; p. 15.
Seifert, Johann T. J., Dresden-Neustadt, assignor to Neue Berliner Messingwerke Wilhelm Borchert, Jr., Berlin, Germany. Hydraulic metal-press. No. 974,195; Nov. 1; Sp. p. 203; Gaz. vol. 160; p. 34.
Seiffert, Frederick, Oakland, Cal. Dough-mixing machine. No. 949,132; Feb. 15; Sp. p. 2854; Gaz. vol. 151; p. 504.
Seigle, William R., Nashua, N. H. Smoke-jack. No. 955,290; Apr. 19; Sp. p. 3435; Gaz. vol. 153; p. 611.
Seigle, William R., Nashua, N. H. Making insulating material. No. 959,620; May 31; Sp. p. 6906; Gaz. vol. 154; p. 1175.
Seigle, William R., Nashua, N. H. Making plastic material. No. 969,202; Sept. 6; Sp. p. 131; Gaz. vol. 158; p. 21.
Seignol, Claudius, Lyon, France. Destruction of hairs and other extraneous matter in floss and waste silk. No. 974,440; Nov. 1; Sp. p. 828; Gaz. vol. 160; p. 123.
Seil, Joseph, New York, N. Y. Clamping attachment. No. 949,332; Feb. 15; Sp. p. 3255; Gaz. vol. 151; p. 572.
Seiler, John A., *et al.* (See Eakin and Deboo, assignors.)
Seiler, John A. (See Glannon, John P., assignor.)
Seiler, Philipp, Guttenberg, N. J., assignor to Strauss Manufacturing Company, New York, N. Y. Sound-producing device. No. 979,038; Dec. 20; Sp. p. 3501; Gaz. vol. 161; p. 613.
Sein, Juan. (See Rodgers and Sein.)
Seipp, Henry C., Coraopolis, Pa. Pavement and other light. No. 972,264; Oct. 11; Sp. p. 1639; Gaz. vol. 159; p. 289
Seippel, Robert, Bochum, Germany. Miner's lamp. No. 953,491; Mar. 29; Sp. p. 6272; Gaz. vol. 152; p. 1124.
Seiser, Charles R., assignor to United Railways Company of Saint Louis, St. Louis, Mo. Passenger-car. No. 973,884; Oct. 25; Sp. p. 5184; Gaz. vol. 159; p. 900.
Seiser, George F., *et al.* (See Fay, Alpheus, assignor.)
Seisler, Philip, assignor to The Chantrell Hardware & Tool Company, Reading, Pa. Rim-latch. No. 963,012; June 28; Sp. p. 5805; Gaz. vol. 155; p. 1016.
Seisser, Ludwig, Munich, Germany. Treating coffee. No. 953,643; Mar. 29; Sp. p. 6587; Gaz. vol. 152; p. 1176.
Seitsinger, Gerold E. (See Kohl, Christian W., assignor.)
Seitz, Edward, assignor of one-half to J. E. Lockwood, Peoria, Ill. Lighting apparatus. No. 967,067; Aug. 9; Sp. p. 2653; Gaz. vol. 157; p. 436.
Seitz, Frank, Elkins, W. Va. Combined plumb, rule, and straight-edge. No. 963,816; July 12; Sp. p. 1761; Gaz. vol. 156; p. 292.
Seitz, Frederick, Rensselaer, N. Y., assignor of one-third to V. Dickhaut and one-third to H. Dickhaut. Can-capping machine. No. 958,549; May 17; Sp. p. 4657; Gaz. vol. 154; p. 765.
Seitz, George B., Hammond, Ind. Rotary engine. No. 975,643; Nov. 15; Sp. p. 3481; Gaz. vol. 160; p. 590
Seitz, John, Chicago, Ill. Apparatus for aging liquors. No. 950,579; Mar. 1; Sp. p. 244; Gaz. vol. 152; p. 41.
Seitz, John, Chicago, Ill. Apparatus for treating liquors. No. 961,167; June 14; Sp. p. 1870; Gaz. vol. 155; p. 339.
Seitz, John, Chicago, Ill. Apparatus for aging liquors. No. 967,574; Aug. 16; Sp. p. 3708; Gaz. vol. 157; p. 638.
Seitz, John, Chicago, Ill. Liquor aging and processing apparatus. No. 967,575; Aug. 16; Sp. p. 3711; Gaz. vol. 157; p. 639.
Seitz, Theobald F., Kreuznach, Germany. Filter. No. 956,832; May 3; Sp. p. 724; Gaz. vol. 154; p. 114.
Seivert, Thomas C., Limon, Colo. Paper-file. No. 977,682; Dec. 6; Sp. p. 589; Gaz. vol. 161; p. 90.
Selas Gesellschaft mit beschränkter Haftung. (See Raap, Gustav, assignor.)
Selden, Fleming J., assignor of one-fourth to C. Paxton and three-eighths to W. D. Briscoe, Washington, D. C. Stand. No. 963,658; July 5; Sp. p. 1389; Gaz. vol. 156; p. 216.
Selden, Lewis H., Minneapolis, Minn. Wall-tie. No. 960,043; May 31; Sp. p. 7868; Gaz. vol. 154; p. 1321.
Selders, David E., Van Orin, Ill. Power-transmission apparatus. No. 966,775; Aug. 9; Sp. p. 2050; Gaz. vol. 157; p. 341.
Selders, David E., Van Orin, Ill. Motion-transmitting device. No. 969,910; Sept. 13; Sp. p. 1655; Gaz. vol. 158; p. 285.
Self-Clinching Nail Company. (See Farrand, Hiram A., assignor.)
Self-Developing Plate Company Limited. (See Bolas, Thomas, assignor.)
Self Equalizer Bed Company. (See Beckwith and Bacon, assignors.)
Selfridge, Duncan I., U. S. Navy. Projectile. No. 973,983; Oct. 25; Sp. p. 5384; Gaz. vol. 159; p. 935.
Selg Brewery Apparatus Company, The. (See Selg, Otto, assignor.)
Selg, Otto, New York, N. Y. Percolator. No. 951,290; Mar. 8; Sp. p. 1676; Gaz. vol. 152; p. 297.
Selg, Otto, New York, N. Y. Percolator. No. 960,419; June 7; Sp. p. 366; Gaz. vol. 155; p. 62.
Selg, Otto, assignor to The Selg Brewery Apparatus Company, New York, N. Y. Nozzle for filters and similar devices. No. 960,418; June 7; Sp. p. 365; Gaz. vol. 155; p. 62.
Selig Polyscope Company. (See Hoglund, Gustav E., assignor.)
Selig Polyscope Company, The. (See Keller, Jeremiah, assignor.)
Selig Polyscope Company. (See Selig, William N., assignor.)
Selig Polyscope Company, The. (See Sperberg, Edward H., assignor.)
Selig, William N. (See Hoglund, Gustav E., assignor.)

Alphabetical list of patentees—Continued.

Selig, William N., assignor to Selig Polyscope Company, Chicago, Ill. Adjusting mechanism for moving-picture machines. No. 948,654; Feb. 8; Sp. p. 1851; Gaz. vol. 151; p. 319.

Selig, William N., assignor to Selig Polyscope Company, Chicago, Ill. Moving-picture projecting-lantern. No. 971,864; Oct. 4; Sp. p. 753; Gaz. vol. 159; p. 131.

Seligman, Arthur F., Troy, Ill. Potato cleaner and sprouter. No. 955,364; Apr. 19; Sp. p. 3603; Gaz. vol. 153; p. 636.

Selkovits, Max. (See Greenwald, Blaustein, Weiss, and Selkovits.)

Sell, Conrad, Arcadia, Nebr. Cultivator attachment. No. 957,579; May 10; Sp. p. 2297; Gaz. vol. 154; p. 398.

Sell Horse Goods Company, The. (See Sell, William E., assignor.)

Sell, William E., assignor to The Sell Horse Goods Company, Canton, Ohio. Hopple. No. 969,203; Sept. 6; Sp. p. 133; Gaz. vol. 158; p. 21.

Selle, Harry W. (See Peterson, Albert C., assignor.)

Selleck, Joseph W., and F. C. Sharp, Cuba, Wis. Rock-drill. No. 954,826; Apr. 12; Sp. p. 2480; Gaz. vol. 153; p. 422.

Selleck, June M., Chicago, Ill. Vehicle-wheel. No. 972,930; Oct. 18; Sp. p. 3136; Gaz. vol. 159; p. 548.

Selleck, Silas E., Cold Spring, N. Y. Handle for bakers' peels. No. 964,817; July 19; Sp. p. 3978; Gaz. vol. 156; p. 662.

Selleck, Wallace L., Darlington, Wis. Pencil attachment. No 965,235; July 26; Sp. p. 4814; Gaz. vol. 156; p. 833.

Selleneit, Henry L., Crookston, Minn. Wall-paper-trimming machine. No. 950,962; Mar. 1; Sp. p. 1051; Gaz. vol. 152; p. 168.

Sellenscheidt, Carl, Berlin, Germany. Filter. No. 947,856; Feb. 1; Sp. p. 166; Gaz. vol. 151; p. 28.

Sellers, Albert J., Steelton, assignor to The Pennsylvania Steel Company, Philadelphia, Pa. Bur-remover. No. 963,725; July 5; Sp. p. 1530; Gaz. vol. 156; p. 238.

Sellers, Coleman, Jr. (See Sellers and Collins.)

Sellers, Edgar E., *et al.* (See Balcom, William D., assignor.)

Sellers, Edgar E., *et al.* (See Kiely, Francis, assignor.)

Sellers, Fred A., *et al.* (See Kiely, Francis, assignor.)

Sellers, John C., Jamison City, Pa. Rail-brace. No. 964,063; July 12; Sp. p. 2283; Gaz. vol. 156; p. 376.

Sellers Manufacturing Company. (See Knaus, Gottfrid, assignor.)

Sellers, Preston H., East St. Louis, Ill. Steam-condenser. No. 962,789; June 28; Sp. p. 5394; Gaz. vol. 155; p. 942.

Sellers, William F., Wilmington, Del. Boiler-header. No. 960,044; May 31; Sp. p. 7869; Gaz. vol. 154; p. 1321.

Sellers, William F., Wilmington, Del., and C. J. Davidson, Milwaukee, Wis., assignors to Edge Moor Iron Company, Edgemoor, Del. Boiler. No. 975,897; Nov. 15; Sp. p. 4007; Gaz. vol. 160; p. 675.

Sellers, William F., Wilmington, Del., and C. J. Davidson, Milwaukee, Wis., assignors to Edge Moor Iron Company, Edgemoor, Del. Boiler. No. 976,103; Nov. 15; Sp. p. 4409; Gaz. vol. 160; p. 747.

Sellers, William F., Wilmington, Del., C. Sellers, Jr., Philadelphia, and T. T. Collins, Enfield, Pa., assignors to Edge Moor Iron Company, Edge Moor, Del. Boring and facing machine for boiler-headers. No. 961,542; June 14; Sp. p. 2699; Gaz. vol. 155; p. 468.

Sellers, William P., Battle Creek, Mich. Window provision-receptacle. No. 953,803; Apr. 5; Sp. p. 245; Gaz. vol. 153; p. 43.

Sellew, Ernest B., Pawtucket, R. I. Automatic sawing-machine. No. 979,102; Dec. 20; Sp. p. 3648; Gaz. vol. 161; p. 634.

Selley, William H., New Bedford, Mass., assignor to Crompton & Knowles Loom Works. Loom-dobby. No. 955,559; Apr. 19; Sp. p. 4009; Gaz. vol. 153; p. 702.

Sellick, Robert, assignor of one-half to E. Willetts, Newark, N. J. File. No. 947,512; Jan. 25; Sp. p. 5617; Gaz. vol. 150; p. 933.

Sellner, Herbert W., Faribault, Minn. Sander or polishing-machine. No. 975,166; Nov. 8; Sp. p. 2468; Gaz. vol. 160; p. 400.

Sellon, Charles A., Halleck, Cal. Magnetic ore-separator. No. 973,984; Oct. 25; Sp. p. 5385; Gaz. vol. 159; p. 935.

Sells, John, Seattle, Wash. Saw-handle. No. 956,196; Apr. 26; Sp. p. 5446; Gaz. vol. 153; p. 953.

Sells, John D. (See Callahan, Timothy F., assignor.)

Sellstedt, Carl W., assignor of one-half to J. P. Lindquist, Minneapolis, Minn. Tufting-needle. No. 965,236; July 26; Sp. p. 4816; Gaz. vol. 156; p. 833.

Selma Fruit Company. (See Elliott, Thomas H., assignor.)

Selmer, Fredrik, Christiania, Norway. Steel bar for reinforcement of slabs, beams, or similar constructions of concrete. No. 959,808; May 31; Sp. p. 7311; Gaz. vol. 154; p. 1238.

Seltzer, Abram E., Miami, Fla. Propeller-wheel. No. 955,291; Apr. 19; Sp. p. 3437; Gaz. vol. 153; p. 611.

Selzer, Michel J., Akron, Ohio. Hot-water heater. No. 965,758; July 26; Sp. p. 5965; Gaz. vol. 156; p. 1014.

Semet-Solvay Company. (See Allen, William H., Jr., assignor.)

Semet-Solvay Company. (See Blauvelt, William H., assignor.)

Semet-Solvay Company. (See Hilleke, August F., assignor.)

Semet-Solvay Company. (See King, Eugene W., assignor.)

Semler, Otto, *et al.* (See Spähr, Ernst J., assignor.)

Semsmon, Andrew O., assignor of three-fourths to W. J. Lamrick, G. Olson, and T. Semsmon, Everett, Wash. Wrench. No. 956,197; Apr. 26; Sp. p. 5448; Gaz. vol. 153; p. 954.

Semsmon, Thomas, *et al.* (See Semsmon, Andrew O., assignor.)

Sencenbaugh, Samuel S., Aurora, Ill. Draping-machine. No. 959,809; May 31; Sp. p. 7312; Gaz. vol. 154; p. 1238.

Sencindiver, Judson H., assignor to Cabinet Vending Co. (Inc.), Washington, D. C. Coin-controlled vending-machine. No. 977,683; Dec. 6; Sp. p. 594; Gaz. vol. 161; p. 91.

Sencindiver, Judson H., assignor to Cabinet Vending Co. (Inc.), Washington, D. C. Coin-controlled vending-machine. No. 978,068; Dec. 6; Sp. p. 1387; Gaz. vol. 161; p. 223.

Sendall, Charles F., Brooklyn, N. Y. Indicator-funnel. No. 962,674; June 28; Sp. p. 5144; Gaz. vol. 155; p. 900.

Seneca Camera Manufacturing Company. (See Goddard, Joseph, assignor.)

Seneca Falls Manufacturing Company, The. (See Runge, William, assignor.)

Seng Company. (See Luke, Richard, assignor.)

Senge, Liborius, Crescent Springs, Ky., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Filing-cabinet. No. 958,018; May 17; Sp. p. 3326; Gaz. vol. 154; p. 579.

Senge, Liborius, Crescent Springs, Ky., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Metal filing-cabinet. No. 972,476; Oct. 11; Sp. p. 2083; Gaz. vol. 159; p. 362.

Senior, James, and H. R. Boots, North Sewickly township, Beaver county, Pa. Rail-joint. No. 967,678; Aug. 16; Sp. p. 3910; Gaz. vol. 157; p. 671.

Senn, Carl, Oakland, and D. C. Demarest, San Francisco, Cal. Lubricating-valve. No. 957,003; May 3; Sp. p. 1095; Gaz. vol. 154; p. 172.

Sennstrom, John H., Chicago, Ill. Rack for wrapping-paper. No. 971,315; Sept. 27; Sp. p. 4611; Gaz. vol. 158; p. 807.

Senton, Felix S. (See McCarthy, Charles A., assignor.)

Separator Aktiebolaget Fama. (See Salenius, Anders, G. G., assignor.)

Sepulchre, François, Liege, Belgium. Purifying blast-furnace and other gases. No. 970,654; Sept. 20; Sp. p. 3243; Gaz. vol. 158; p. 558.

Seragnoli, Enrico, Arenzano, Italy. Electric burglar-alarm for vaults, safes, or the like. No. 949,451; Feb. 15; Sp. p. 3506; Gaz. vol. 151; p. 612.

Sergeant, Charles H., Bridgeport, Conn. Internal-combustion engine. No. 973,140; Oct. 18; Sp. p. 3592; Gaz. vol. 159; p. 620.

Sergeson, James C., Philadelphia, Pa. Shuttle. No. 956,198; Apr. 26; Sp. p. 5449; Gaz. vol. 153; p. 954.

Serkland, Hans M. (See Peterson, Carl E., assignor.)

Serrell, Lemuel W., Plainfield, N. J. Vacuum-producing apparatus. No. 950,495; Mar. 1; Sp. p. 69; Gaz. vol. 152; p. 13.

Serrell, Lemuel W., Plainfield, assignor to The Vacuna Company, East Orange, N. J. Dust-separating or vacuum cleaning apparatus. No. 964,940; July 19; Sp. p. 4223; Gaz. vol. 156; p. 705.

Serrell, Lemuel W., Plainfield, assignor to The Vacuna Company, East Orange, N. J. Vacuum-producing apparatus. No. 965,025; July 19; Sp. p. 4386; Gaz. vol. 156; p. 732.

Serrell, Lemuel W., Plainfield, assignor to The Vacuna Company, East Orange, N. J. Vacuum cleaning apparatus. No. 979,210; Dec. 20; Sp. p. 3895; Gaz. vol. 161; p. 674.

Serrell, Lemuel W., Plainfield, assignor to The Vacuna Company, East Orange, N. J. Dust-separating or vacuum cleaning apparatus. No. 979,211; Dec. 20; Sp. p. 3899; Gaz. vol. 161; p. 674.

Servatius, Joseph H., and F. E. Meinel, assignors to Illinois Show Case Works, Chicago, Ill. Display-rack for show-cases. No. 961,029; June 7; Sp. p. 1588; Gaz. vol. 155; p. 266.

Service, William E., Bridgeton, N. J. Photographic-printing machine. No. 970,127; Sept. 13; Sp. p. 2102; Gaz. vol. 158; p. 358.

Service, William F., and W. J. Emley, Jersey City, as signors of one-third to J. A. Barry, Vineland, N. J. Scouring, grinding, and polishing machine. No. 963,477; July 5; Sp. p. 1030; Gaz. vol. 156; p. 156.

Serwer, Samuel J., New York, N. Y. Button. No. 958,328; May 17; Sp. p. 4228; Gaz. vol. 154; p. 690.

Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Electrical controller. No. 949,333; Feb. 15; Sp. p. 3256; Gaz. vol. 151; p. 572.

Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Electric locomotive. No. 954,475; Apr. 12; Sp. p. 1661; Gaz. vol. 153; p. 301.

Alphabetical list of patentees—Continued.

Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Cable-reeling mechanism for electric locomotives. No. 959,621; May 31; Sp. p. 6908; Gaz. vol. 154; p. 1176.
Sessions, Frank L., assignor to The Jeffrey Manufacturing Company. Columbus, Ohio. Trolley-switch. No. 962,533; June 28; Sp. p. 4851; Gaz. vol. 155; p. 853.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Electric motor. No. 965,543; July 26; Sp. p. 5519; Gaz. vol. 156; p. 939.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Circuit-breaker. No. 971,082; Sept. 27; Sp. p. 4148; Gaz. vol. 158; p. 732.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Brush-holder for electric conductors. No. 972,655; Oct. 11; Sp. p. 2494; Gaz. vol. 159; p. 425.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Current-controller. No. 973,885; Oct. 25; Sp. p. 5187; Gaz. vol. 159; p. 901.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffery Manufacturing Company. Mining-machine. No. 975,468; Nov. 15; Sp. p. 3099; Gaz. vol. 160; p. 530.
Sessions, George B., Findlay, Ohio. Bracket for shade and curtain fixtures. No. 966,608; Aug. 9; Sp. p. 1661; Gaz. vol. 157; p. 283.
Sessions, Hugh E., Columbia, S. C. Cotton-seed linter. No. 962,722; June 28; Sp. p. 5255; Gaz. vol. 155; p. 917.
Sessions, Ira D. (See Marth, Orlando P., assignor.)
Sester, Charles P., Peoria, Ill. Awning attachment. No. 946,827; Jan. 18; Sp. p. 4075; Gaz. vol. 150; p. 675.
Sester, Charles P., Peoria, Ill. Awning attachment. No. 970,959; Sept. 20; Sp. p. 3874; Gaz. vol. 158; p. 662.
Sester, Charles P., and H. Oelkers, Peoria, Ill. Gearing. No. 959,622; May 31; Sp. p. 6910; Gaz. vol. 154; p. 1176.
Sether, Alvin F., Glendale, Oreg. Surgical forceps. No. 945,292; Jan. 4; Sp. p. 621; Gaz. vol. 150; p. 97.
Settecase, Biagio, Louisville, Ky. Automatic pilot-switch. No. 953,238; Mar. 29; Sp. p. 5723; Gaz. vol. 152; p. 1037.
Setter, Antone J., Cattaraugus, N. Y. Punching apparatus. No. 961,653; June 14; Sp. p. 2916; Gaz. vol. 155; p. 505.
Settergren, Bernhard, assignor to J. Gubbins, Chicago, Ill. Marine vessel. No. 955,703; Apr. 19; Sp. p. 4355; Gaz. vol. 153; p. 752.
Settle, Walter A., Wallace, Idaho. Bicycle and motorcycle holder. No. 948,349; Feb. 8; Sp. p. 1185; Gaz. vol. 151; p. 217.
Settles, Joshua L., Wichita, Kans. Wire-fastener for cement posts. No. 946,075; Jan. 11; Sp. p. 2362; Gaz. vol. 150; p. 392.
Seubert, Louis H., East Orange, N. J. Antifriction-bearing. No. 951,847; Mar. 15; Sp. p. 2821; Gaz. vol. 152; p. 514.
Severin, Conrad, Göttingen, assignor to Niedersächsische Papierindustrie G. m. b. H., Holzminden, Germany. Fly-catcher. No. 976,506; Nov. 22; Sp. p. 5357; Gaz. vol. 160; p. 909.
Severin, Frank W. (See Bock, Herman F., assignor.)
Severin, Walter E., St. Louis, Mo. Adjustable shade or curtain bracket. No. 970,855; Sept. 20; Sp. p. 3687; Gaz. vol. 158; p. 629.
Severns, Otis W., Chicago, Ill. Sweeping composition. No 966,060; Aug. 2; Sp. p. 472; Gaz. vol. 157; p. 76.
Severson, Andrew N., Maple Park, Ill. Sod-cutting attachment for spades. No. 958,188; May 17; Sp. p. 3785; Gaz. vol. 154; p. 640.
Severson, Harry A., *et al.* (See Peterson, Burt A., assignor.)
Severy, Melvin L., Arlington Heights, Mass. Musical instrument. No. 973,391; Oct. 18; Sp. p. 4144; Gaz. vol. 159; p. 707.
Sévigné, Henri A., *et al.* (See Peck, Ira F., assignor.)
Sevigné, Wallace J., Springfield, Mass. Animal-trap. No. 967,576; Aug. 16; Sp. p. 3712; Gaz. vol. 157; p. 639.
Sevison, Luther J., and E. H. Moak, Port Huron, Mich. Grading-machine. No. 973,711; Oct. 25; Sp. p. 4827; Gaz. vol. 159; p. 840.
Seward, Ernest R. (See Witherell, Seward, and Mason.)
Seward, George O. (See Kügelgen and Seward.)
Seward, Percy G., Petersburg, Va. Receptacle. No. 975,898; Nov. 15; Sp. p. 4010; Gaz. vol. 160; p. 676.
Sewell, Charles B., Sharon, Tex. Cotton-harvester. No. 973,712; Oct. 25; Sp. p. 4835; Gaz. vol. 159; p. 840.
Sewell, Charles T., Newnan, Ga. Plow-fender. No. 977,971; Dec. 6; Sp. p. 1196; Gaz. vol. 161; p. 191.
Sexauer, John A., Sidney, Ohio. Bread-molding machine. No. 964,321; July 12; Sp. p. 2807; Gaz. vol. 156; p. 463.
Sexton, Charles M., Aurora, Ill. Combined latch and catch for doors. No. 977,137; Nov. 29; Sp. p. 6768; Gaz. vol. 160; p. 1151.
Sexton, Daniel, Kansas City, Mo. Innersole. No. 975,576; Nov. 15; Sp. p. 3345; Gaz. vol. 160; p. 567.
Sexton, James L., assignor of one-third to E. F. Black and one-third to S. J. Wentz, Charlotte, N. C. Drawing-roll. No. 949,504; Feb. 15; Sp. p. 3612; Gaz. vol. 151; p. 629.
Sexton, Timothy. (See Jones, John, assignor.)
Sextone, Edith R., Grenola, Kans. Reproducing outlines of a form. No. 968,272; Aug. 23; Sp. p. 5207; Gaz. vol. 157; p. 896.
Seyferth, Max. (See Just, Wittig, and Seyferth.)
Seyl, Joseph C., *et al.* (See Aschenbrener, Fredrick C., assignor.)
Seymour, Benjamin F., Denver, Colo. Heating system. No. 946,276; Jan. 11; Sp. p. 2784; Gaz. vol. 150; p. 463.
Seymour, Benjamin F., Denver, Colo. Transportable elevator. No. 946,403; Jan. 11; Sp. p. 3151; Gaz. vol. 150; p. 507.
Seymour, Charles E., Placerville, Cal. Apparatus for segregating solids from liquids. No. 958,942; May 24; Sp. p. 5505; Gaz. vol. 154; p. 924.
Seymour, David C., Newark, N. J. Hot-water apparatus. No. 964,941; July 19; Sp. p. 4226; Gaz. vol. 156; p. 706.
Seymour, Frances P. A. (See Avery, Frances P.)
Seymour, Henry A., Washington, D. C., assignor to The Morgan Engineering Company, Alliance, Ohio. Ladle-crane. No. 974,196; Nov. 1; Sp. p. 205; Gaz. vol. 160; p. 34.
Seymour, Richard H., Bristol, Va. Adjustable dipper-tooth. No. 976,507; Nov. 22; Sp. p. 5357; Gaz. vol. 160; p. 909.
Seymour, William E., assignor to G. Steinwachs, Buffalo, N. Y. Garbage-receptacle. No. 970,960; Sept. 20; Sp. p. 3878; Gaz. vol. 158; p. 662.
Seyranian, Levon H., Monterey, Cal. Armature-testing device. No. 974,712; Nov. 1; Sp. p. 1443; Gaz. vol. 160; p. 222.
Sgal, Ludwig, and J. Schwanda, Vienna, Austria-Hungary, assignors to Pioneer Engineering Syndicate Limited, London, England. Spring for vehicles. No. 947,653; Jan. 25; Sp. p. 5905; Gaz. vol. 150; p. 981.
Sgal, Ludwig, Chislehurst, England, and J. Schwanda, Vienna, Austria-Hungary, assignors to Pioneer Engineering Syndicate Limited, London, England. Self-feeder for printing-presses. No. 962,866; June 28; Sp. p. 5539; Gaz. vol. 155; p. 969.
Shackelford, James J., Putnam, Tex. Disk plow-scraper. No. 975,577; Nov. 15; Sp. p. 3346; Gaz. vol. 160; p. 568.
Shackleton, Alfred, assignor to L. T. Roenitz, Chicago, Ill. Machine for forming articles from pulp and analogous materials. No. 958,019; May 17; Sp. p. 3328; Gaz. vol. 154; p. 579.
Shade, Theodore, Sacramento, assignor to Lightning Valve and Dredge Company, Stockton, Cal. Valve. No. 961,466; June 14; Sp. p. 2524; Gaz. vol. 155; p. 443.
Shadley, Frank L., Sterling, Nebr. Car-seal. No. 972,477; Oct. 11; Sp. p. 2085; Gaz. vol. 159; p. 362.
Shaeffer, Absalom D., Kittanning, Pa. Rail-joint. No. 975,899; Nov. 15; Sp. p. 4012; Gaz. vol. 160; p. 676.
Shaeffer, Charles, Paris, Tex. Crude-oil burner. No. 961,030; June 7; Sp. p. 1590; Gaz. vol. 155; p. 266.
Shaeffer, Charles, Paris, Tex. Animal-trap. No. 968,273; Aug. 23; Sp. p. 5208; Gaz. vol. 157; p. 896.
Shafer, Eliza J., Berkeley, Cal. Saw-sharpener. No. 945,201; Jan. 4; Sp. p. 407; Gaz. vol. 150; p. 67.
Shafer, Frank B., Northville, assignor to C. E. Rogers, Detroit, Mich. Teat-cup for milking apparatus. No. 950,145; Feb. 22; Sp. p. 5019; Gaz. vol. 151; p. 882.
Shafer, Frank B., Northville, assignor to C. E. Rogers, Detroit, Mich. Milking apparatus. No. 966,958; Aug. 9; Sp. p. 2428; Gaz. vol. 157; p. 399.
Shafer, Howard S., Nazareth, Pa. Automobile-tire. No. 960,119; May 31; Sp. p. 8010; Gaz. vol. 154; p. 1345.
Shafer, Ira, San Diego, Cal. Nut-lock. No. 968,991; Aug. 30; Sp. p. 6711; Gaz. vol. 157; p. 1168.
Shafer, John J., Lenox, Mich. Photographic-printing machine. No. 977,138; Nov. 29; Sp. p. 6769; Gaz. vol. 160; p. 1151.
Shafer, John W., assignor of one-half to F. Young, Chicago, Ill. Automatic lubricator. No. 959,267; May 24; Sp. p. 6170; Gaz. vol. 154; p. 1031.
Shafer, Peter H., Ingram, Wis. Whip-rack. No. 978,945; Dec. 20; Sp. p. 3277; Gaz. vol. 161; p. 581.
Shaffer, Ernest L., Cedar Falls, Iowa. Straw-stacker. No. 972,656; Oct. 11; Sp. p. 2496; Gaz. vol. 159; p. 425.
Shaffer, Frederick R., New York, N. Y., assignor to The New York Flatiron Company. Self-heating sad-iron. No. 961,377; June 14; Sp. p. 2338; Gaz. vol. 155; p. 413.
Shaffer, Frederick R., New York, N. Y., assignor to New York Flatiron Company. Sad-iron. No. 961,378; June 14; Sp. p. 2340; Gaz. vol. 155; p. 413.
Shaffer, Joseph W. (See Ensminger and Shaffer.)
Shaffer, Knuland, trustee. (See Dunning, Robert A., assignor.)
Shaffer, Liguoria A., Ridgeley, W. Va. Flask for casting horseshoes. No. 969,663; Sept. 6; Sp. p. 1086; Gaz. vol. 158; p. 174.
Shaffer, Philip J., Springfield, Ill. Composition of matter for cleaning and shining wood. No. 961,903; June 21; Sp. p. 3457; Gaz. vol. 155; p. 612.
Shaffer, Wallace F., Kendallville, Ind. Display-case. No. 965,237; July 26; Sp. p. 4817; Gaz. vol. 156; p. 833.
Shaffer, William C., Milwaukee, Wis. Generator and burner. No. 973,713; Oct. 25; Sp. p. 4837; Gaz. vol. 159; p. 840.
Shaffner, Clarence B. (See Hadjich, George, assignor.)

Alphabetical list of patentees—Continued.

Shaffner, Samuel C., assignor to National Air Filter Company, Chicago, Ill. Means for filtering air and producing ozone. No. 977,335; Nov. 29; Sp. p. 7164; Gaz. vol. 160; p. 1219.

Shaffner, Samuel C., and S. T. Hutton, assignors to National Air Filter Company, Chicago, Ill. Means for filtering air and producing ozone. No. 977,336; Nov. 29; Sp. p. 7169; Gaz. vol. 160; p. 1219.

Shafto, Leroy R., Elm Creek, Nebr. Hay stacker and loader. No. 972,478; Oct. 11; Sp. p. 2086; Gaz. vol. 159; p. 363.

Shaiffer, Harry D., Philadelphia, Pa. Skirt-form. No. 975,724; Nov. 15; Sp. p. 3651; Gaz. vol. 160; p. 615.

Shailor, Frank E., Detroit, Mich., assignor to General Electric Company. Electric heater. No. 950,058; Feb. 22; Sp. p. 4856; Gaz. vol. 151; p. 854.

Shain, Charles D., Rockaway Park, N. Y. Vaporizer or carbureter for gas-engines. No. 963,081; July 5; Sp. p. 111; Gaz. vol. 156; p. 20.

Shakespeare, Joseph. (See Higham and Shakespeare.)

Shakespeare, William, Jr., Kalamazoo, Mich. Playing-cards. No. 960,205; May 31; Sp. p. 8173; Gaz. vol. 154; p. 1375.

Shakespeare, William, Jr., assignor to William Shakespeare, Jr., Company, Kalamazoo, Mich. Line-guide for fishing-rods. No. 958,775; May 24; Sp. p. 5120; Gaz. vol. 154; p. 865.

Shakespeare, William, Jr., and S. G. Russell, assignors to William Shakespeare, Jr., Company, Kalamazoo, Mich. Fishing-reel. No. 959,623; May 31; Sp. p. 6911; Gaz. vol. 154; p. 1176.

Shalansky, Morris, Indianapolis, Ind. Cloth measuring and recording device. No. 975,373; Nov. 8; Sp. p. 2908; Gaz. vol. 160; p. 469.

Shalansky, Morris, Indianapolis, Ind. Convertible chair. No. 975,374; Nov. 8; Sp. p. 2913; Gaz. vol. 160; p. 470.

Shaler, Clarence A., Waupun, Wis. Vulcanizer. No. 955,479; Apr. 19; Sp. p. 3843; Gaz. vol. 153; p. 676.

Shaler, Clarence A., Waupun, Wis. Vulcanizer. No. 977,972; Dec. 6; Sp. p. 1196; Gaz. vol. 161; p. 191.

Shallenberger, Charles S., assignor to Scullin-Gallagher Iron and Steel Company, St. Louis, Mo. Draft-rigging for railway-cars. No. 947,857; Feb. 1; Sp. p. 167; Gaz. vol. 151; p. 28.

Shallenberger, Charles S., assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Underframe for railway-cars. No. 970,128; Sept. 13; Sp. p. 2106; Gaz. vol. 158; p. 359.

Shallenberger, Charles S., assignor to Scullin-Gallagher Iron and Steel Company, St. Louis, Mo. Draft-rigging for railway-cars. No. 976,508; Nov. 22; Sp. p. 5359; Gaz. vol. 160; p. 909.

Shallenberger, Charles S., assignor to C. M. Clark, St. Louis, Mo. Adjustable column-guide for truck side frames. No. 978,946; Dec. 20; Sp. p. 3278; Gaz. vol. 161; p. 581.

Shallow, Edward F., Philadelphia, Pa. Gage-cock. No. 979,344; Dec. 20; Sp. p. 4166; Gaz. vol. 161; p. 718.

Shampine, Fred V., Revillo, S. D. Ironing-board. No. 954,349; Apr. 5; Sp. p. 1392; Gaz. vol. 153; p. 230.

Shampou, Peter, and I. Donahue, assignors of one-third to J. Bedard, Websterville, Vt. Adjusting means for feed-screws. No. 959,810; May 31; Sp. p. 7313; Gaz. vol. 154; p. 1239.

Shanafelt Manufacturing Company, The. (See Allabough, Joseph L., assignor.)

Shanahan, Leo M. (See Mason, Francis C., assignor.)

Shanahan, Timothy J., Elkhart, Ind., assignor of one-half to E. C. Trott, Chicago, Ill. Internal-combustion engine. No. 968,274; Aug. 23; Sp. p. 5209; Gaz. vol. 157; p. 897.

Shand, William, assignor of one-half to Joseph Presner, Montreal, Quebec, Canada. Nut burring and facing machine. No. 959,624; May 31; Sp. p. 6913; Gaz. vol. 154; p. 1177.

Shank, Henry C., *et al.* (See Isenberger, Jacob H., assignor.)

Shank, Joseph E., assignor of one-half to J. P. Brisben, Little River, Kans. Mail-box. No. 963,329; July 5; Sp. p. 738; Gaz. vol. 156; p. 106.

Shank, Orey D., Philadelphia, Pa. Horse-checking device. No. 961,168; June 14; Sp. p. 1872; Gaz. vol. 155; p. 340.

Shanks, William A., Wolcott, N. Y. Padlock. No. 953,556; Mar. 29; Sp. p. 6404; Gaz. vol. 152; p. 1147.

Shankwiler, Nathan P., Longbeach, Cal. Clothes-horse. No. 968,992; Aug. 30; Sp. p. 6711; Gaz. vol. 157; p. 1169.

Shankwiler, Nathan P., Longbeach, Cal. Back-rest for lathes. No. 978,663; Dec. 13; Sp. p. 2709; Gaz. vol. 161; p. 461.

Shannon, Arthur E., Columbus, Ohio. Matting-roller. No. 946,468; Jan. 11; Sp. p. 3295; Gaz. vol. 150; p. 529.

Shannon, Charles G., Kingston, Ontario, Canada. Snood-fishing-hook keeper. No. 966,609; Aug. 9; Sp. p. 1662; Gaz. vol. 157; p. 284.

Shannon, Floyd, Wellsburg, W. Va. Envelop-seal. No. 971,316; Sept. 27; Sp. p. 4613; Gaz. vol. 158; p. 808.

Shannon, George D. (See May and Shannon.)

Shannon, Harry A., Appleton, Wis. Card-display case. No. 975,644; Nov. 15; Sp. p. 3482; Gaz. vol. 160; p. 591.

Shannon, Mabel C., Minneapolis, Minn. Individual table. No. 965,414; July 26; Sp. p. 5204; Gaz. vol. 156; p. 893.

Shannon, Oscar M., New Rochelle, N. Y. Garbage-crematory. No. 964,568; July 19; Sp. p. 3373; Gaz. vol. 156; p. 576.

Shannon, Thornton I., and F. M. Garnett, Columbus, Ohio. Coin-controlled pneumatically-operated musical instrument. No. 962,534; June 28; Sp. p. 4852; Gaz. vol. 155; p. 853.

Shannon, Woodford, Louisville, Ky. Display-rack. No. 968,201; Aug. 23; Sp. p. 5049; Gaz. vol. 157; p. 870.

Shapel, Hooker, Iola, Kans. Liquid-fuel burner. No. 972,931; Oct. 18; Sp. p. 3141; Gaz. vol. 159; p. 548.

Shapera, Charles M. (See Shapera, Morris L. and C. M.)

Shapera, Morris L. and C. M., Chicago, Ill. Fabric laying and folding machine. No. 964,124; July 12; Sp. p. 2414; Gaz. vol. 156; p. 396.

Shapiro & Aronson. (See Schwartz and Kleinmann, assignors.)

Shapiro, Barnett, Brooklyn, N. Y. Bedstead-corner. No. 947,858; Feb. 1; Sp. p. 168; Gaz. vol. 151; p. 28.

Shapiro, Maurice I., Haverstraw, N. Y. Ventilating apparatus. No. 970,403; Sept. 13; Sp. p. 2668; Gaz. vol. 158; p. 451.

Shapiro, Michael. (See Wood, George W., assignor.)

Shapiro, Samuel, Philadelphia, Pa. Aerating-cover for milk-cans and the like. No. 951,152; Mar. 8; Sp. p. 1398; Gaz. vol. 152; p. 254.

Shapiro, Samuel, Philadelphia, Pa. Milk-heating apparatus. No. 960,045; May 31; Sp. p. 7871; Gaz. vol. 154; p. 1322.

Shapiro, Samuel, Philadelphia, Pa. Refrigerating attachment for milk-cans. No. 960,046; May 31; Sp. p. 7874; Gaz. vol. 154; p. 1322.

Shapiro, Samuel, Philadelphia, Pa. Aerating-cover for milk-cans. No. 975,725; Nov. 15; Sp. p. 3653; Gaz. vol. 160; p. 616.

Shapiro, Samuel, Philadelphia, Pa. Combined pasteurizing and refrigerating apparatus. No. 977,230; Nov. 29; Sp. p. 6960; Gaz. vol. 160; p. 1183.

Shapleigh, Marshall S., Glenside, Pa. Mixing-machine. No. 969,120; Aug. 30; Sp. p. 6973; Gaz. vol. 157; p. 1214.

Shapley, Cooper, Guanajuato, Mexico. Centrifugal filter for cyanid plants. No. 959,173; May 24; Sp. p. 5990; Gaz. vol. 154; p. 1001.

Shapley, Raymond R., assignor of one-half to B. F. Snavely, Harrisburg, Pa. Gage-cock. No. 950,351; Feb. 22; Sp. p. 5439; Gaz. vol. 151; p. 954.

Shapowalow, Fedor, Brooklyn, N. Y. Tool-holder. No. 952,470; Mar. 22; Sp. p. 4061; Gaz. vol. 152; p. 750.

Sharkey, Albert G., New York, N. Y. Car for roller-coasters. No. 952,472; Mar. 22; Sp. p. 4064; Gaz. vol. 152; p. 751.

Sharlow, Thomas, New York, N. Y. Lantern-slide carrier. No. 945,619; Jan. 4; Sp. p. 1305; Gaz. vol. 150; p. 204.

Sharlow, Thomas, New York, N. Y. Film-reel for moving-picture machines. No. 971,317; Sept. 27; Sp. p. 4614; Gaz. vol. 158; p. 808.

Sharon, James, Canaseraga, N. Y. Mounting for caster-wheels. No. 953,492; Mar. 29; Sp. p. 6273; Gaz. vol. 152; p. 1125.

Sharon, James G., Quincy, Fla. Aseptic drinking-cup. No. 952,365; Mar. 15; Sp. p. 3835; Gaz. vol. 152; p. 686.

Sharood, Samuel V., Brockton, assignor of one-half to E. L. Reed, East Bridgewater, Mass. Steam-trap and automatic check-valve. No. 966,709; Aug. 9; Sp. p. 1857; Gaz. vol. 157; p. 317.

Sharp, Abel B., Boise, Idaho. Miner's candlestick. No. 952,844; Mar. 22; Sp. p. 4887; Gaz. vol. 152; p. 879.

Sharp, Archibald, Westminster, London, England. Air-spring. No. 973,223; Oct. 18; Sp. p. 3793; Gaz. vol. 159; p. 649.

Sharp, Charles L. and R. W., Camden, N. J. Car-fender. No. 948,640; Feb. 8; Sp. p. 1828; Gaz. vol. 151; p. 314.

Sharp, Charles S., Auburn, N. Y., assignor, by mesne assignments, to International Harvester Company. Bundle-carrier. No. 949,334; Feb. 15; Sp. p. 3257; Gaz. vol. 151; p. 572.

Sharp, Clayton H., White Plains, and P. S. Millar, Brooklyn, N. Y. Photometer. No. 960,420; June 7; Sp. p. 366; Gaz. vol. 155; p. 62.

Sharp, Edward A., Chicago, Ill. Pamphlet-binder. No. 952,471; Mar. 22; Sp. p. 4062; Gaz. vol. 152; p. 751.

Sharp, Frank P., San Francisco, Cal. Inking apparatus for printing-presses. No. 978,495; Dec. 13; Sp. p. 2330; Gaz. vol. 161; p. 402.

Sharp, Frank W., *et al.* (See Dolan, William J., assignor.)

Sharp, Frederick C. (See Selleck and Sharp.)

Sharp, Lee C., Omaha, Nebr. Can-body-making machine. No. 967,068; Aug. 9; Sp. p. 2656; Gaz. vol. 157; p. 437.

Sharp, Lee C., Omaha, Nebr., assignor to American Can Company, New York, N. Y. Machine for soldering vent-cleats to can-caps. No. 958,776; May 24; Sp. p. 5122; Gaz. vol. 154; p. 865.

Sharp, Peter, New York, N. Y., assignor to Automatic Rove-Stop Company. Stop-motion for textile machinery. No. 972,265; Oct. 11; Sp. p. 1641; Gaz. vol. 159; p. 289.

Alphabetical list of patentees—Continued.

Sharp, Peter, assignor to Automatic Rove Stop Co., New York, N. Y. Automatic rove-stop. No. 972,266; Oct. 11; Sp. p. 1646; Gaz. vol. 159; p. 290.
Sharp, Richard W. (See Sharp, Charles L. and R. W.)
Sharp & Smith. (See Sheppard, Osborne H., assignor.)
Sharp, Warren M., Binghamton, N. Y. Ash-receiving device. No. 946,469; Jan. 11; Sp. p. 3296; Gaz. vol. 150; p. 529.
Sharp, William E. (See Robbins and Sharp.)
Sharpe, Joseph K., Jr., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 966,710; Aug. 9; Sp. p. 1859; Gaz. vol. 157; p. 318.
Sharpe, Joseph K., Jr., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 971,933; Oct. 4; Sp. p. 923; Gaz. vol. 159; p. 157.
Sharples, David T., West Chester, Pa. Liner for centrifugal separators. No. 949,848; Feb. 22; Sp. p. 4325; Gaz. vol. 151; p. 779.
Sharples, David T., West Chester, Pa. Teat-cup. No. 974,834; Nov. 8; Sp. p. 1698; Gaz. vol. 160; p. 285.
Sharples, David T., West Chester, Pa. Milking mechanism. No. 976,305; Nov. 22; Sp. p. 4927; Gaz. vol. 160; p. 839.
Sharples, Philip M., West Chester, Pa. Centrifugal separator. No. 951,153; Mar. 8; Sp. p. 1399; Gaz. vol. 152; p. 254.
Sharples Separator Company, The. (See McCornack, Herbert, assignor.)
Sharpneck, Eliel L., Winthrop, Mass. Car-axle box and saddle. No. 977,139; Nov. 29; Sp. p. 6775; Gaz. vol. 160; p. 1152.
Sharpneck, Eliel L., Winthrop, Mass. Roller-bearing. No. 978,496; Dec. 13; Sp. p. 2331; Gaz. vol. 161; p. 402.
Sharpneck, Eliel L. and M. C., Boston, Mass. Tide-motor. No. 975,726; Nov. 15; Sp. p. 3654; Gaz. vol. 160; p. 616.
Sharpneck, Frank A., assignor of ninety one-hundredths to R. Reichardt and L. Galliland, Chicago, Ill. Engine. No. 964,702; July 19; Sp. p. 3747; Gaz. vol. 156; p. 622.
Sharpneck, Matthew C. (See Sharpneck, Eliel L. and M. C.)
Shattuck Manufacturing Co. (See Shattuck, William P., assignor.)
Shattuck, William P., assignor to Shattuck Manufacturing Co., Minneapolis, Minn. Computing-machine. No. 966,248; Aug. 2; Sp. p. 865; Gaz. vol. 157; p. 138.
Shattuck, William P., assignor of two-thirds to J. Burmeister, Minneapolis, Minn. Mop-stick. No. 973,392; Oct. 18; Sp. p. 4147; Gaz. vol. 159; p. 707.
Shattuck, Wilmer H., Bridgewater Corners, assignor of one-third to L. S. Bradley, White River Junction, Vt., and one-third to H. E. Vaughan, Brooklyn, N. Y. Razor-stropping device. No. 975,801; Nov. 15; Sp. p. 3815; Gaz. vol. 160; p. 642.
Shatzer, Christian P. (See Yoha, Shatzer, and Yoha.)
Shatzer, Norman C., Zullinger, Pa. Moistener. No. 954,651; Apr. 12; Sp. p. 2053; Gaz. vol. 153; p. 361.
Shaub, Charles O., Smithfield, W. Va. Key-fastener. No. 946,277; Jan. 11; Sp. p. 2786; Gaz. vol. 150; p. 463.
Shaughnessy, Micheal L. (See Barry and Shaughnessy.)
Shaver, George F., New York, N. Y., assignor to Hygienic Soap Granulator Company. Soap-dispensing machine. No. 969,204; Sept. 6; Sp. p. 134; Gaz. vol. 158; p. 21.
Shaver, James W., *et al.* (See McLaughlin, John, assignor.)
Shaw, Al B., West Medford, Mass. Electric-time-switch mechanism. No. 952,953; Mar. 22; Sp. p. 5096; Gaz. vol. 152; p. 915.
Shaw, Alvoni G., Harrisburg, Pa. Convertible chair. No. 954,594; Apr. 12; Sp. p. 1917; Gaz. vol. 153; p. 341.
Shaw, Arthur E., assignor to The Pennsylvania Glass Globe Light Company of Philadelphia, Philadelphia, Pa. Inverted incandescent gas-light. No. 957,445; May 10; Sp. p. 2038; Gaz. vol. 154; p. 353.
Shaw, Austin. (See Shaw and Lees.)
Shaw, Carl C., Cynthiana, Ind. Whip socket and lock. No. 966,776; Aug. 9; Sp. p. 2051; Gaz. vol. 157; p. 341.
Shaw, Charles H., Milwaukee, Wis., assignor to Standard Separator Company. Hollow shaft for centrifugal separators. No. 959,030; May 24; Sp. p. 5670; Gaz. vol. 154; p. 953.
Shaw, Charles H., Milwaukee, Wis., assignor to Standard Separator Company. Float for centrifugal separators. No. 959,625; May 31; Sp. p. 6916; Gaz. vol. 154; p. 1177.
Shaw, Claude. (See Talbert, Shaw, Holcomb, and Hoke.)
Shaw, Cyrus V., West Brownsville, Pa. Non-refillable bottle. No. 945,620; Jan. 4; Sp. p. 1306; Gaz. vol. 150; p. 205.
Shaw, David E., Milwaukee, Wis. Combination attachment for tools. No. 953,863; Apr. 5; Sp. p. 362; Gaz. vol. 153; p. 65.
Shaw, Edward, London, England. Apparatus for the treatment or preparation of sugar. No. 957,113; May 3; Sp. p. 1308; Gaz. vol. 154; p. 209.
Shaw, Edward, Dartford Heath, England. Apparatus for evaporating or concentrating liquids. No. 965,759; July 26; Sp. p. 5966; Gaz. vol. 156; p. 1014.
Shaw, Edward R., Lynn, Mass. Machine for cutting boots and shoes. No. 967,577; Aug. 16; Sp. p. 3714; Gaz. vol. 157; p. 639.
Shaw, Edwin C., assignor, by mesne assignments, to The United Rim Company, Akron, Ohio. Vehicle-wheel rim. No. 971,318; Sept. 27; Sp. p. 4616; Gaz. vol. 158; p. 808.
Shaw, Emerson N., Vallejo, Cal. Oil-burner. No. 954,652; Apr. 12; Sp. p. 2055; Gaz. vol. 153; p. 361.
Shaw, Eugene W., Weir, Kans. Air-hose coupling. No. 957,385; May 10; Sp. p. 1914; Gaz. vol. 154; p. 333.
Shaw, George M., *et al.* (See Anderson, Harry T., assignor.)
Shaw, George S. (See Price and Shaw.)
Shaw, Harold V., Montreal, Quebec, Canada. Seal price-tag. No. 949,201; Feb. 15; Sp. p. 2979; Gaz. vol. 151; p. 528.
Shaw, Henry D. (See Ramage and Shaw.)
Shaw, Henry E., *et al.* (See Ashford, Thomas B., assignor.)
Shaw, Henry F., Boston, Mass. Propeller. No. 954,053; Apr. 5; Sp. p. 740; Gaz. vol. 153; p. 130.
Shaw, Henry F., Boston, Mass. Valve-gear. No. 979,212; Dec. 20; Sp. p. 3903; Gaz. vol. 161; p. 675.
Shaw, Herbert C., Chicago, Ill. Feed-bag. No. 979,345; Dec. 20; Sp. p. 4167; Gaz. vol. 161; p. 719.
Shaw, James N., assignor of one-half to F. B. Moorehead, Volant, Pa. Wrench. No. 975,375; Nov. 8; Sp. p. 2915; Gaz. vol. 160; p. 470.
Shaw, John E. and A., W., T. W., and A. Lees, Halifax, England. Feed-water regulator for steam-generators and the like. No. 978,664; Dec. 13; Sp. p. 2710; Gaz. vol. 161; p. 461.
Shaw, John H., Florence, Kans. Garden-hoe. No. 946,566; Jan. 18; Sp. p. 3486; Gaz. vol. 150; p. 586.
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Dipping mechanism for electroplating apparatus. No. 963,817; July 12; Sp. p. 1763; Gaz. vol. 156; p. 292.
Shaw, John I., Novinger, Mo. Whiffletree-hanger. No. 968,703; Aug. 30; Sp. p. 6143; Gaz. vol. 157; p. 1072.
Shaw, John I., and I. F. Stroup, Novinger, Mo. Combination-tool. No. 952,473; Mar. 22; Sp. p. 4065; Gaz. vol. 152; p. 751.
Shaw, Lewis A. and W. J., Toledo, Ill. Stovepipe-holder. No. 948,937; Feb. 8; Sp. p. 2425; Gaz. vol. 151; p. 413.
Shaw, Linus H., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making rands. No. 958,896; May 24; Sp. p. 5429; Gaz. vol. 154; p. 909.
Shaw, Louis E., assignor to J. B. Colt Company, New York, N. Y. Combined cock and needle valve. No. 975,469; Nov. 15; Sp. p. 3103; Gaz. vol. 160; p. 530.
Shaw, Robert W., assignor of one-half to G. Rae, New York, N. Y. Carbureter. No. 978,947; Dec. 20; Sp. p. 3280; Gaz. vol. 161; p. 581.
Shaw, Walter B., Dobbs Ferry, N. Y. Door-supporting means. No. 951,971; Mar. 15; Sp. p. 3074; Gaz. vol. 152; p. 553.
Shaw, William, Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Pigtail connection for carbon brushes. No. 972,267; Oct. 11; Sp. p. 1652; Gaz. vol. 159; p. 290.
Shaw, William J. (See Shaw, Lewis A. and W. J.)
Shaw, William J., assignor, by mesne assignments, to International Tool Steel Company, Limited, Toronto, Ontario, Canada. Composition for briquets. No. 963,400; July 5; Sp. p. 886; Gaz. vol. 156; p. 130.
Shaw, William J., assignor, by mesne assignments, to International Tool Steel Company, Limited, Toronto, Ontario, Canada. Combined reduction and crucible furnace. No. 967,069; Aug. 9; Sp. p. 2668; Gaz. vol. 157; p. 437.
Shawhan, Jabea F., Dayton, Ohio. Electric furnace and operating same. No. 951,458; Mar. 8; Sp. p. 2033; Gaz. vol. 152; p. 352.
Shawmut Machinery Company. (See Buck, Vertrude P., assignor.)
Shawmut Tire Company. (See Murray, Albert L., assignor.)
Shawver, Harvey E., Santa Monica, Cal. Detachable vise for carpenters' benches. No. 979,039; Dec. 20; Sp. p. 3502; Gaz. vol. 161; p. 613.
Shay, Charles O. (See Menear and Shay.)
Shea, John R., Oshkosh, Wis. Ellipsograph. No. 957,114; May 3; Sp. p. 1310; Gaz. vol. 154; p. 209.
Shea, Michael C., Mishawaka, Ind. Wheel. No. 977,559; Dec. 6; Sp. p. 334; Gaz. vol. 161; p. 49.
Shea, Michael F., Newport, R. I. Powder-box. No. 955,480; Apr. 19; Sp. p. 3844; Gaz. vol. 153; p. 676.
Shea, Stephen. (See Thrall, Shea, and Thrall)
Sheaffer, James E., Burnham, Pa. Stopper for metal-pouring ladles. No. 955,704; Apr. 19; Sp. p. 4357; Gaz. vol. 153; p. 752.
Sheak, Andrew G., Binghamton, N. Y. Drinking-cup. No. 972,932; Oct. 18; Sp. p. 3142; Gaz. vol. 159; p. 549.
Shean, Thomas P., Chicago, Ill. Wall-tie. No. 978,948; Dec. 20; Sp. p. 3281; Gaz. vol. 161; p. 581.
Shean, Thomas P., Chicago, Ill. Shock-absorber for doors. No. 978,949; Dec. 20; Sp. p. 3283; Gaz. vol. 161; p. 582.
Shean, Thomas P., Chicago, Ill. Door-locking mechanism. No. 980,131; Dec. 27; Sp. p. 5894; Gaz. vol. 161; p. 1007.

Shean, Thomas P., Chicago, Ill. Partition-wall tie. No. 980,132; Dec. 27; Sp. p. 5897; Gaz. vol. 161; p. 1007.
Shean, Thomas P., assignor to Knisely Brothers, Chicago, Ill. Door stop and releasing device. No. 951,261; Mar. 8; Sp. p. 1609; Gaz. vol. 152; p. 288.
Shear, Joseph M., assignor to Rogers-Shear Company, Warren, Pa. Clip for corner beads or strips. No. 956,439; Apr. 26; Sp. p. 5963; Gaz. vol. 153; p. 1036.
Shear, William G., Grand Rapids, Mich. Convertible chair. No. 961,169; June 14; Sp. p. 1875; Gaz. vol. 155; p. 340.
Shear, William H., Coeymans, N. Y. Metallic railway-tie. No. 945,816; Jan. 11; Sp. p. 1801; Gaz. vol. 150; p. 301.
Shear, William H., Ravena, N. Y. Metallic railway-tie. No. 952,586; Mar. 22; Sp. p. 4313; Gaz. vol. 152; p. 790.
Shearer, Isadore E. L., Newark, N. J. Comb. No. 950,963; Mar. 1; Sp. p. 1053; Gaz. vol. 152; p. 168.
Shearer, James B., *et al.* (See Levey, Thomas J., assignor.)
Shearer, Joseph A., Ashland, Ohio. Sash-fastener. No. 971,569; Oct. 4; Sp. p. 130; Gaz. vol. 159; p. 24.
Shearer, Thomas, Toledo, Ohio. Lamp-burner. No. 969,413; Sept. 6; Sp. p. 556; Gaz. vol. 158; p. 89.
Shearer, William, Eskbank, Scotland. Carbureter. No. 948,744; Feb. 8; Sp. p. 2046; Gaz. vol. 151; p. 349.
Shearer, William, Eskbank, Scotland. Apparatus for making petrolized or air gas. No. 948,745; Feb. 8; Sp. p. 2047; Gaz. vol. 151; p. 350.
Shears, Cuthbert, Manchester, England, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Magnetic brake. No. 971,795; Oct. 4; Sp. p. 594; Gaz. vol. 159; p. 104.
Sheasby, William H., and S. G. Neal, assignors to The California Valve and Air Brake Company, Los Angeles, Cal. Air-braking apparatus for railways. No. 961,320; June 14; Sp. p. 2221; Gaz. vol. 155; p. 394.
Sheble, Horace, Philadelphia, Pa., assignor, by mesne assignments, to New Jersey Patent Company, Orange, N. J. Horn-supporting crane. No. 970,655; Sept. 20; Sp. p. 3245; Gaz. vol. 158; p. 559.
Sheble, Horace, and T. Kraemer, assignors to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Talking-machine. No. 957,004; May 3; Sp. p. 1097; Gaz. vol. 154; p. 172.
Shedd, Bert D. (See Farmer, Warren A., assignor.)
Shedd, Charles B., Chicago, Ill. Stack-cover. No. 975,802; Nov. 15; Sp. p. 3817; Gaz. vol. 160; p. 643.
Shedd, Hugh E., Austin, Minn. Attachment for printing-presses. No. 947,721; Jan. 25; Sp. p. 6019; Gaz. vol. 150; p. 1002.
Shedd, Hugh E., Minneapolis, Minn. Expansive file. No. 979,213; Dec. 20; Sp. p. 3906; Gaz. vol. 161; p. 675.
Shedd, Marcellus R. (See Chamberlain and Shedd.)
Shedenhelm, Robert, Ladora, Iowa, assignor, by mesne assignments, of four-tenths to H. S. Butler. Truck for manure-loaders. No. 949,202; Feb. 15; Sp. p. 2980; Gaz. vol. 151; p. 528.
Shedlock, Alfred, Cannon Station, Conn. Door-fastener. No. 976,403; Nov. 22; Sp. p. 5150; Gaz. vol. 160; p. 874.
Sheehan, John J., Everett, Wash. Combination walking-stick and chair. No. 952,366; Mar. 15; Sp. p. 3836; Gaz. vol. 152; p. 686.
Sheehan, William E., Albany, N. Y. Paper-making machinery. No. 959,626; May 31; Sp. p. 6917; Gaz. vol. 154; p. 1178.
Sheehy, Harry W., Akron, Ohio. Electric-railway switch. No. 949,404; Feb. 15; Sp. p. 3427; Gaz. vol. 151; p. 599.
Sheehy, William E., Newfields, N. H. Stoker's hoe. No. 975,082; Nov. 8; Sp. p. 2273; Gaz. vol. 160; p. 371.
Sheen, Clendon H., Norwood, Ohio. Umbrella-lock. No. 949,809; Feb. 22; Sp. p. 4245; Gaz. vol. 151; p. 766.
Sheen, Daniel R. (See Gates, Isaac N., assignor.)
Sheer, Henry M., Quincy, Ill. Thermostatic regulator for incubators. No. 961,654; June 14; Sp. p. 2918; Gaz. vol. 155; p. 505.
Sheer, Henry M., Quincy, Ill. Convertible incubator and brooder. No. 977,973; Dec. 6; Sp. p. 1198; Gaz. vol. 161; p. 191.
Sheesley, Howard M., Osco, assignor of one-half to E. M. Clark, Rock Island, Ill. Hog-trap. No. 980,015; Dec. 27; Sp. p. 5601; Gaz. vol. 161; p. 968.
Sheets, Elias B., Terre Haute, Ind. Molding-machine. No. 976,752; Nov. 22; Sp. p. 5872; Gaz. vol. 160; p. 992.
Sheets, Samuel I., Paris, Ill. Mold for collapsible metal centerings. No. 953,925; Apr. 5; Sp. p. 478; Gaz. vol. 153; p. 87.
Sheetz, Thomas R., Goldfield, Nev. Ratchet-drill. No. 969,664; Sept. 6; Sp. p. 1088; Gaz. vol. 158; p. 174.
Sheffield Car Company. (See Pickles, Charles K., assignor.)
Sheidel Western X-Ray Coil Company. (See Hutton, Samuel T., assignor.)
Shek, Frank P., Brooklyn, N. Y. Hand-drill. No. 949,965; Feb. 22; Sp. p. 4600; Gaz. vol. 151; p. 821.
Shek, Frank P., Brooklyn, N. Y. Hand-drill. No. 965,337; July 26; Sp. p. 5054; Gaz. vol. 156; p. 869.
Shelburne, Arthur. (See Buettner and Shelburne.)
Sheldon, Angus, Kenton, Ohio. Garden-hoe. No. 962,392; June 21; Sp. p. 4508; Gaz. vol. 155; p. 778.
Sheldon, Edward P. (See Brand, Marcile, and Sheldon.)
Sheldon, Edward P., assignor to R. Hoe, New York, N. Y. Numbering mechanism. No. 949,849; Feb. 22; Sp. p. 4326; Gaz. vol. 151; p. 779.
Sheldon, Edward P., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Cutting mechanism. No. 951,490; Mar. 8; Sp. p. 2101; Gaz. vol. 152; p. 363.
Sheldon, Edward P., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Printing-machine. No. 953,063; Mar. 29; Sp. p. 5328; Gaz. vol. 152; p. 981.
Sheldon, Edward P., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Inking device. No. 967,985; Aug. 23; Sp. p. 4548; Gaz. vol. 157; p. 798.
Sheldon, Jesse, Vineland, N. J. Attachment for the sounding-boards of stringed instruments. No. 962,393; June 21; Sp. p. 4509; Gaz. vol. 155; p. 778.
Sheldon, Quincy G., Elburn, Ill. Mold for forming fence-posts and the like. No. 963,818; July 12; Sp. p. 1765; Gaz. vol. 156; p. 292.
Sheldon, Rufus N., assignor of one-half to S. W. Rohn, Norwalk, Ohio. Apparatus for the distribution of liquid soap in lavatories. No. 962,394; June 21; Sp. p. 4510; Gaz. vol. 155; p. 778.
Sheldon, Samuel B., Buffalo, N. Y. Coking coal. No. 953,351; Mar. 29; Sp. p. 5964; Gaz. vol. 152; p. 1075.
Sheldon, Samuel B., Buffalo, N. Y. Coking coal. No. 959,080; May 24; Sp. p. 5792; Gaz. vol. 154; p. 971.
Sheldon, Samuel B., South Bethlehem, Pa. Gas-producer. No. 956,199; Apr. 26; Sp. p. 5450; Gaz. vol. 153; p. 954.
Sheldon, William A., Marengo, Ill. Temperature-regulating system. No. 963,255; July 5; Sp. p. 587; Gaz. vol. 156; p. 81.
Shellenberger, Samuel L., Denison, Tex. Railway-switch. No. 949,916; Feb. 22; Sp. p. 4507; Gaz. vol. 151; p. 804.
Sheller, Raymond G., Grundy Center, Iowa. Gambrel. No. 966,777; Aug. 9; Sp. p. 2052; Gaz. vol. 157; p. 341.
Shelly, Uriah S., Ashland, Ohio. Vertical hoist and dump. No. 963,478; July 5; Sp. p. 1032; Gaz. vol. 156; p. 156.
Shelton, Charles N. (See Sprague, Nelson S., assignor.)
Shelton, Henry D., Hughesville, Mo. Compressor. No. 962,592; June 28; Sp. p. 4986; Gaz. vol. 155; p. 872.
Shelton, J. W. (See Rork, Clare M., assignor.)
Shelton, James C., Excelsior Springs, Mo., and H. G. Brown, Hiawatha, Kans. Grappling implement for turning poles. No. 951,341; Mar. 8; Sp. p. 1788; Gaz. vol. 152; p. 314.
Shelton, John B., Detroit, Mich. Dump car and cart. No. 962,593; June 28; Sp. p. 4988; Gaz. vol. 155; p. 873.
Shelton, Robert H., Celeste, Tex. Cot-frame. No. 947,133; Jan. 18; Sp. p. 4690; Gaz. vol. 150; p. 774.
Shelton, William J., Van Vleck, Tex. Fumigator. No. 971,570; Oct. 4; Sp. p. 131; Gaz. vol. 159; p. 24.
Shemwell, Harold, assignor to American Automatic Railway Switch Company, Birmingham, Ala. Switch-throwing mechanism. No. 945,621; Jan. 4; Sp. p. 1308; Gaz. vol. 150; p. 205.
Sheneman, Daniel L. (See York, David A., assignor.)
Shenton, Francis J. (See Spratt and Shenton.)
Shepard, Charles H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 951,848; Mar. 15; Sp. p. 2823; Gaz. vol. 152; p. 515.
Shepard, Charles H., New York, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 953,440; Mar. 29; Sp. p. 6158; Gaz. vol. 152; p. 1105.
Shepard, Charles H., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 968,087; Aug. 23; Sp. p. 4785; Gaz. vol. 157; p. 833.
Shepard, Charles H., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 974,441; Nov. 1; Sp. p. 829; Gaz. vol. 160; p. 123.
Shepard, Edgar T., assignor to Oneida Steel Pulley Company, Oneida, N. Y. Sheet-metal pulley. No. 953,011; Mar. 22; Sp. p. 5213; Gaz. vol. 152; p. 935.
Shepard, Edward P., San Diego, Cal. Sound-modifier for talking-machines. No. 953,557; Mar. 29; Sp. p. 6405; Gaz. vol. 152; p. 1147.
Shepard, Emma F., administratrix. (See Shepard, Eugene H.)
Shepard, Eugene H., deceased, Phillips, Me.; E. F. Shepard, administratrix. Bundle-carrier-making machine. No. 970,269; Sept. 13; Sp. p. 2421; Gaz. vol. 165; p. 408.
Shepard, F. H., *et al.* (See Foreman, David H., assignor.)
Shepard, Francis H., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 947,313; Jan. 25; Sp. p. 5127; Gaz. vol. 150; p. 866.
Shepard, Harry. (See Shepard, Harry H. and H.)
Shepard, Harry H., Providence, R. I. Cushion-cap for the keys of writing-machines. No. 971,221; Sept. 27; Sp. p. 4442; Gaz. vol. 158; p. 778.
Shepard, Harry H. and H., New York, N. Y. Frame-hanger. No. 972,579; Oct. 11; Sp. p. 2340; Gaz. vol. 159; p. 400.
Shepard, John C., Norway, Me. Arch-supporter. No. 977,684; Dec. 6; Sp. p. 598; Gaz. vol. 161; p. 91.
Shepard, Melzar, Wayne, Mich. Lock. No. 976,509; Nov. 22; Sp. p. 5360; Gaz. vol. 160; p. 909.

Alphabetical list of patentees—Continued.

Shepard, Melzar, assignor to Wayne Shipping Case Company, Wayne, Mich. Shipping-case. No. 955,705; Apr. 19; Sp. p. 4358; Gaz. vol. 153; p. 752.
Shepard, Robert L., Warwick, N. Y. Belt-punch and knife-blade. No. 969,303; Sept. 6; Sp. p. 317; Gaz. vol. 158; p. 52.
Shepard, Stanley L., Parishville, N. Y. Mold. No. 975,083; Nov. 8; Sp. p. 2274; Gaz. vol. 160; p. 371.
Shepard, Victor J. (See Wall and Shepard.)
Shepard, Wilbur L., Elmwood, and H. J. Wickham, Manchester, Conn. Apparatus for treating and utilizing peat fuel. No. 946,788; Jan. 18; Sp. p. 3973; Gaz. vol. 150; p. 660.
Shepard, William C., Pittsfield, Mass. Hose-jacket. No. 948,772; Feb. 8; Sp. p. 2116; Gaz. vol. 151; p. 359.
Shepard, William C., Pittsfield, Mass. Closing device for cellar fire-holes. No. 958,550; May 17; Sp. p. 4659; Gaz. vol. 154; p. 765.
Shepheard, William H., Portsmouth, Va. Hose-coupling. No. 967,679; Aug. 16; Sp. p. 3912; Gaz. vol. 157; p. 671.
Shepherd, Araadna, Des Moines, Iowa. Sanitary cooking apparatus. No. 965,955; Aug. 2; Sp. p. 215; Gaz. vol. 157; p. 37.
Shepherd, Clarke W., Spring Hill, W. Va. Riding-saddle. No. 956,649; May 3; Sp. p. 309; Gaz. vol. 154; p. 51.
Shepherd, Daniel W., Rupert, Idaho. Chalk-holder. No. 950,680; Mar. 1; Sp. p. 456; Gaz. vol. 152; p. 74.
Shepherd, Daniel W., Rupert, Idaho. Chalk-holder. No. 966,132; Aug. 2; Sp. p. 600; Gaz. vol. 157; p. 99.
Shepherd, John. (See Nolen and Shepherd.)
Shepherd, John E. (See Nolen, James G., assignor.)
Shepherd, John E. (See Nolen and Shepherd, assignors.)
Shepherd, John E., Chicago, Ill. Alarm signaling system. No. 969,414; Sept. 6; Sp. p. 557; Gaz. vol. 158; p. 90.
Shepherd, Joseph S., Vinton, Va. Device for operating coupling-pins. No. 978,406; Dec. 13; Sp. p. 2140; Gaz. vol. 161; p. 372.
Shepherd, Oswald M. (See Martin and Shepherd.)
Shepherd, Willis P., Chicago, Ill. Centrifugal separator. No. 949,603; Feb. 15; Sp. p. 3805; Gaz. vol. 151; p. 663.
Sheppard, Erle R., New York, N. Y. Roller card-case. No. 971,319; Sept. 27; Sp. p. 4619; Gaz. vol. 158; p. 808.
Sheppard, Frank K., assignor of one-half to B. F. Alford, Bridgeton, N. J. Table-leveler. No. 948,708; Feb. 8; Sp. p. 1966; Gaz. vol. 151; p. 337.
Sheppard, Osborne H., assignor to Sharp & Smith, Chicago, Ill. Pessary. No. 960,721; June 7; Sp. p. 980; Gaz. vol. 155; p. 163.
Sheppard, Pearl D. (See Collins and Sheppard.)
Sheppard, Wayne K. (See Collins and Sheppard.)
Sheppard, William, Paterson, N. J., assignor to American Locomotive Company, New York, N. Y. Bolster for steam-shovels. No. 947,356; Jan. 25; Sp. p. 5232; Gaz. vol. 150; p. 881.
Sheppard, William G., Indianola, Nebr. Rotary engine. No. 948,256; Feb. 1; Sp. p. 972; Gaz. vol. 151; p. 159.
Sheppard, William H., Worcester, Mass. Printing-press. No. 946,882; Jan. 18; Sp. p. 4213; Gaz. vol. 150; p. 694.
Sheppard, William M., assignor to Parker Brothers Glass Manufacturing Company, Bridgeton, N. J. Mold. No. 953,926; Apr. 5; Sp. p. 482; Gaz. vol. 153; p. 88.
Sherard, John H., Sherard, Miss. Attachment for harrows. No. 978,665; Dec. 13; Sp. p. 2712; Gaz. vol. 161; p. 462.
Sherburne, Charles W., Boston, Mass. Signal-cock. No. 975,645; Nov. 15; Sp. p. 3483; Gaz. vol. 160; p. 591.
Sherburne & Co. (See Randolph, John L., assignor.)
Sherburne & Company *et al.* (See Ewart, John, assignor.)
Sherer, Willard A. (See Leon, Bert, assignor.)
Sherin, Timothy F., Whitinsville, Mass. Rail-joint. No. 964,454; July 12; Sp. p. 3067; Gaz. vol. 156; p. 504.
Sherkel, Frank, Jr., Hoboken, N. J. Snap-hook. No. 952,367; Mar. 15; Sp. p. 3837; Gaz. vol. 152; p. 686.
Sherman, Albert G., Buffalo, N. Y. Packing-case. No. 946,278; Jan. 11; Sp. p. 2787; Gaz. vol. 150; p. 464.
Sherman, Albert G., Buffalo, N. Y. Boiler. No. 972,580; Oct. 11; Sp. p. 2342; Gaz. vol. 159; p. 400.
Sherman, Alvin G., Detroit, Mich. Measuring and dispensing can or tank. No. 957,005; May 3; Sp. p. 1098; Gaz. vol. 154; p. 172.
Sherman, Clifford W. (See O'Connor, John F., assignor.)
Sherman, Erwin C., assignor to The William B. Pollock Company, Youngstown, Ohio. Trunnion-support for dumping-ladles. No. 952,368; Mar. 15; Sp. p. 3840; Gaz. vol. 152; p. 687.
Sherman, Frank A. (See Smith, John W., assignor.)
Sherman, Fred S., Cambridge, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Cutting-board. No. 946,619; Jan. 18; Sp. p. 3594; Gaz. vol. 150; p. 605.
Sherman, Fred W., Buffalo, N. Y. Cutlery. No. 950,352; Feb. 22; Sp. p. 5440; Gaz. vol. 151; p. 954.
Sherman, Harry E. and L. A., Kansas City, Mo. Cartridge-shell. No. 956,201; Apr. 26; Sp. p. 5456; Gaz. vol. 153; p. 955.
Sherman, Henry R., Hartford, assignor of one-half to G. H. Woodruff, New Haven, Conn. Trolley guard and finder. No. 979,712; Dec. 27; Sp. p. 4940; Gaz. vol. 161; p. 866.
Sherman, James M., Columbia, Mo. Incubator. No. 962,594; June 28; Sp. p. 4991; Gaz. vol. 155; p. 873.
Sherman, Lawrence F., trustee. (See Browne, Alexander P., assignor.)
Sherman, Layton O., Cleveland, Ohio. Distilling liquids. No. 968,088; Aug. 23; Sp. p. 4791; Gaz. vol. 157; p. 833.
Sherman, Louie A. (See Sherman, Harry E. and L. A.)
Sherman, Louis A., Detroit, Mich. Hydrocarbon-burner. No. 953,441; Mar. 29; Sp. p. 6164; Gaz. vol. 152; p. 1106.
Sherman, Louis A., Detroit, Mich. Hydrocarbon-burner. No. 960,722; June 7; Sp. p. 981; Gaz. vol. 155; p. 163.
Sherman, Oscar, Brooklyn, N. Y. Safety-clasp. No. 950,408; Feb. 22; Sp. p. 5545; Gaz. vol. 151; p. 971.
Sherman, P. H., *et al.* (See Leavell, Thomas G., assignor.)
Sherod, John T., Kansas City, Kans. Combined drill-press and boring-machine. No. 962,474; June 28; Sp. p. 4720; Gaz. vol. 155; p. 832.
Sherrerd, John M., Easton, Pa. Ball-mill plate. No. 971,153; Sept. 27; Sp. p. 4283; Gaz. vol. 158; p. 754.
Sherry, James, Santa Monica, Cal. Combined templet and gage. No. 947,422; Jan. 25; Sp. p. 5384; Gaz. vol. 150; p. 902.
Sherry, James A., Fall River, Mass. Merry-go-round. No. 977,560; Dec. 6; Sp. p. 336; Gaz. vol. 161; p. 49.
Sherwig, John M., and M. C. Petitt, Cleveland, Ohio. Button-making machine. No. 966,778; Aug. 9; Sp. p. 2053; Gaz. vol. 157; p. 341.
Sherwood, Earl, Honesdale, Pa. Car-fender. No. 953,064; Mar. 29; Sp. p. 5335; Gaz. vol. 152; p. 981.
Sherwood, George H., Dayton, Ky. Sectional form and truss-support. No. 949,093; Feb. 15; Sp. p. 2762; Gaz. vol. 151; p. 491.
Sherwood, George H., Denver, Colo. Sectional form for concrete construction. No. 965,026; July 19; Sp. p. 4391; Gaz. vol. 156; p. 733.
Sherwood, Harry B., Kansas City, Mo., assignor to Kansas City Scale & Supply Company. Scale. No. 958,441; May 17; Sp. p. 4455; Gaz. vol. 154; p. 728.
Sherwood, Herbert T., London, England. Corset. No. 976,608; Nov. 22; Sp. p. 5580; Gaz. vol. 160; p. 943.
Sherwood, Matthew M., Scranton, Pa. Fifth-wheel for vehicles. No. 953,717; Apr. 5; Sp. p. 65; Gaz. vol. 153; p. 15.
Sherwood, Oliver, New York, N. Y. Film spreader and holder. No. 961,808; June 21; Sp. p. 3250; Gaz. vol. 155; p. 580.
Sherwood, Walter, Canon City, Colo. Automatic computing device and cash-drawer. No. 978,950; Dec. 20; Sp. p. 3284; Gaz. vol. 161; p. 582.
Sherwood, Walter, assignor of one-half to J. Sawbridge, North Yakima, Wash. Pipe-covering. No. 951,342; Mar. 8; Sp. p. 1789; Gaz. vol. 152; p. 314.
Sherwood, Warren A., and E. L. Gardner, Lancaster, Pa. Illuminated sign. No. 958,836; May 24; Sp. p. 5269; Gaz. vol. 154; p. 888.
Sherwood, Warren A., and E. L. Gardner, Lancaster, Pa. Illuminated sign. No. 958,837; May 24; Sp. p. 5272; Gaz. vol. 154; p. 889.
Sherwood, Warren A., and E. L. Gardner, Lancaster, Pa. Illuminated sign. No. 958,838; May 24; Sp. p. 5274; Gaz. vol. 154; p. 889.
Sherwood, William, New York, N. Y. Stand-boiler. No. 958,551; May 17; Sp. p. 4660; Gaz. vol. 154; p. 765.
Sherwood, William I., New York, assignor to Phonographic Music Co., Brooklyn, N. Y. Speed-meter. No. 946,687; Jan. 18; Sp. p. 3746; Gaz. vol. 150; p. 626.
Sherwood, William M., Alexandria, Minn. Traveling platform. No. 961,809; June 21; Sp. p. 3253; Gaz. vol. 155; p. 580.
Sherwood, Willis A. (See Sleade, Louis F., assignor.)
Shibe, Thomas S. (See Aurig, Frank W., assignor.)
Shiek, Daniel W., Chicago, Ill., assignor to W. L. Milliken, Indianapolis, Ind. Carrying mechanism for calculating-machines and the like. No. 948,188; Feb. 1; Sp. p. 832; Gaz. vol. 151; p. 137.
Shiek, Daniel W., Chicago, Ill., assignor, by mesne assignments, to Walter L. Milliken, trustee. Ribbon-feed mechanism for computing-machines and the like. No. 963,819; July 12; Sp. p. 1767; Gaz. vol. 156; p. 293.
Shields, Charles H. (See Albrecht, Frederick W., assignor.)
Shields, George, Brooklyn, assignor, by mesne assignments, to The Glass Enameled Package Co., Westchester county, N. Y. Barrel. No. 961,737; June 14; Sp. p. 3087; Gaz. vol. 155; p. 533.
Shields, George, Brooklyn, assignor, by mesne assignments, to The Glass Enameled Package Co., Westchester county, N. Y. Barrel. No. 969,205; Sept. 6; Sp. p. 136; Gaz. vol. 158; p. 22.
Shields, Harry A., Grand Rapids, assignor to S. C. F. Machinery Company, Nashville, Mich. Cloth-piling machine. No. 945,249; Jan. 4; Sp. p. 507; Gaz. vol. 150; p. 83.
Shields, Harry A., Grand Rapids, assignor to S. C. F. Machinery Company, Nashville, Mich. Cloth-piling machine. No. 952,845; Mar. 22; Sp. p. 4889; Gaz. vol. 152; p. 880.
Shields, Jesse, and C. H. Goetsche, Kansas City, Mo. Stapling-machine. No. 950,496; Mar. 1; Sp. p. 73; Gaz. vol. 152; p. 13.
Shields, William M., Afton, Iowa. Cabinet. No. 952,146; Mar. 15; Sp. p. 3406; Gaz. vol. 152; p. 613.

Shields, William S., Beverly, N. J. Combined step-ladder, stair-ladder, and extension-ladder. No. 967,252; Aug. 16; Sp. p. 3050; Gaz. vol. 157; p. 528.
Shiels, John H., Wallingford, assignor to International Silver Co., Meriden, Conn. Machine for trimming blanks for sheet-metal shells. No. 945,347; Jan. 4; Sp. p. 748; Gaz. vol. 150; p. 115.
Shifler, Milton A., Iola, Kans. Lock-nut. No. 953,644; Mar. 29; Sp. p. 6589; Gaz. vol. 152; p. 1177.
Shigon, Nathan A., New York, N. Y. Refractometer. No. 979,578; Dec. 27; Sp. p. 4671; Gaz. vol. 161; p. 820.
Shillin, Frank, Sundby, assignor of one-half to E. G. Hilliard, Duluth, Minn. Sleigh-knee. No. 958,552; May 17; Sp. p. 4661; Gaz. vol. 154; p. 766.
Shilling, Edward C., Columbus, Ohio. Cushion-tire. No. 974,303; Nov. 1; Sp. p. 505; Gaz. vol. 160; p. 75.
Shillitto, Frank W., assignor to The Ready Tool Company, New Haven, Conn. Tool-holder. No. 978,226; Dec. 13; Sp. p. 1748; Gaz. vol. 161; p. 308.
Shiman Miller Manufacturing Company, The. (See Spatschil, Charles, assignor.)
Shimer, Milton J., Bethlehem, Pa. Toy pistol. No. 952,369; Mar. 15; Sp. p. 3842; Gaz. vol. 152; p. 687.
Shimp, George, and I. H. Wilton, Patoka, Ill. Railway-switch. No. 957,115; May 3; Sp. p. 1313; Gaz. vol. 154; p. 209.
Shimp, William T., Philadelphia, Pa. Railway-tie. No. 980,016; Dec. 27; Sp. p. 5602; Gaz. vol. 161; p. 968.
Shinn, Edward E., Montrose, Colo. Wave-motor. No. 969,665; Sept. 6; Sp. p. 1090; Gaz. vol. 158; p. 175.
Shinn, William C., Lincoln, Nebr. Lightning-arrester. No. 945,293; Jan. 4; Sp. p. 624; Gaz. vol. 150; p. 97.
Shinn, William H., *et al.* (See Owen, Charles L., assignor.)
Shipley, Andy C., Speedwell, Tenn. Muffler for firearms. No. 971,083; Sept. 27; Sp. p. 4150; Gaz. vol. 158; p. 732.
Shipley, Henry T., Oshkosh, Wis. Hay-loader. No. 966,249; Aug. 2; Sp. p. 871; Gaz. vol. 157; p. 138.
Shipley, Henry T., assignor of one-fourth to C. R. Blakely, Oshkosh, Wis. Loading apparatus. No. 952,954; Mar. 22; Sp. p. 5099; Gaz. vol. 152; p. 915.
Shipman, Edwin S., Braddock, Pa. Splice-bar lock. No. 961,031; June 7; Sp. p. 1591; Gaz. vol. 155; p. 266.
Shipman, Elmer, Wapello, Iowa. Hinge connection for folding basket-racks for wagons. No. 967,070; Aug. 9; Sp. p. 2670; Gaz. vol. 157; p. 438.
Shipman, James L., Mounds, Okla. Load-binder, wire-tightener, and lifting-jack. No. 958,777; May 24; Sp. p. 5128; Gaz. vol. 154; p. 865.
Shipman, Lester E., assignor to A. L. Shipman's Sons, New York, N. Y. Loose-leaf binder. No. 950,247; Feb. 22; Sp. p. 5243; Gaz. vol. 151; p. 920.
Shipman, William F., Denver, Colo. Wire-stretcher. No. 972,268; Oct. 11; Sp. p. 1653; Gaz. vol. 159; p. 290.
Shipman's Sons, Asa L. (See Shipman, Lester E., assignor.)
Shippee, Almond A., Rowe, Mass. Separator. No. 950,409; Feb. 22; Sp. p. 5546; Gaz. vol. 151; p. 972.
Shippy, Arthur A. (See Burke and Shippy.)
Shirer, John W., Braddock, Pa. Metal clip. No. 955,003; Apr. 12; Sp. p. 2852; Gaz. vol. 153; p. 484.
Shirey, John W. (See Hyre and Shirey.)
Shirk, Andrew W., Dayton, Ohio. Sewer-bucket. No. 951,202; Mar. 8; Sp. p. 1491; Gaz. vol. 152; p. 269.
Shirley, Cephas I., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Adjustable sleeve for journal-bearings. No. 962,059; June 21; Sp. p. 3789; Gaz. vol. 155; p. 665.
Shirley, Cephas I., and C. S. Lockwood, Newark, assignors to Hyatt Roller Bearing Company, Harrison, N. J. Journal-sleeve for roller-bearings. No. 964,322; July 12; Sp. p. 2808; Gaz. vol. 156; p. 463.
Shirley, John I., Mexico, Mexico. Elastic-fluid motor. No. 958,553; May 17; Sp. p. 4663; Gaz. vol. 154; p. 766.
Shirley, William W., Pittsburg, Pa. Pan and plate lifter. No. 972,933; Oct. 18; Sp. p. 3144; Gaz. vol. 159; p. 549.
Shivadecker, George. (See Smith and Shivadecker.)
Shmonsky, Frank, Ridgway, Pa. Flue-blower. No. 955,706; Apr. 19; Sp. p. 4362; Gaz. vol. 153; p. 753.
Shmonsky, Frank, Ridgway, Pa. Combined gas and smoke consuming attachment. No. 961,810; June 21; Sp. p. 3254; Gaz. vol. 155; p. 581.
Shnable & Quinn. (See Quinn, John B., assignor.)
Shoaf, Richard B. (See Walton, William D., assignor.)
Shober, Rudy, *et al.* (See Miller, Fred W., assignor.)
Shoberg, David C., Avon, S. D. Flash-light apparatus. No. 970,358; Sept. 13; Sp. p. 2584; Gaz. vol. 158; p. 436.
Shobert, Frederic C., Pittsburg, Pa. Type-writer attachment. No. 969,206; Sept. 6; Sp. p. 137; Gaz. vol. 158; p. 22.
Shock, Abraham H., Lancaster, assignor to Lancaster Scale Company, Elizabethtown, Pa. Automatically-computing weighing-scale. No. 952,219; Mar. 15; Sp. p. 3543; Gaz. vol. 152; p. 637.
Shock, Ralph, Rockford, Ohio. Self-loading hay-rack. No. 967,071; Aug. 9; Sp. p. 2671; Gaz. vol. 157; p. 438.
Shockley, Richard W., San Angelo, Tex. Embroidery attachment. No. 959,890; May 31; Sp. p. 7495; Gaz. vol. 154; p. 1266.
Shoemaker, George A., and E. C. Holland, Benton Harbor, Mich., assignors to Metal Sectional Furniture Company, Portland, Me. Ball-cap for binder-posts. No. 979,713; Dec. 27; Sp. p. 4941; Gaz. vol. 161; p. 866.
Shoemaker, Harry, Jersey City, N. J., assignor to International Telegraph Construction Company. Receiving apparatus. No. 974,927; Nov. 8; Sp. p. 1925; Gaz. vol. 160; p. 318.
Shoemaker, Jeremiah, Akron, Ohio. Tedder attachment. No. 968,809; Aug. 30; Sp. p. 6351; Gaz. vol. 157; p. 1107.
Shoemaker, Murry, Artesian, S. D. Check-hook. No. 952,147; Mar. 15; Sp. p. 3407; Gaz. vol. 152; p. 613.
Shoenberg, Milton H., San Francisco, Cal., assignor to The Presto Electrical Manufacturing Company. Electric heater. No. 976,405; Nov. 22; Sp. p. 5153; Gaz. vol. 160; p. 875.
Shoenberg, Milton H., and G. T. Marsh, San Francisco, Cal., assignors to Appliance and Electric Device Company. Electrical heater. No. 972,131; Oct. 4; Sp. p. 1334; Gaz. vol. 159; p. 224.
Shoenberg, Milton H., and G. T. Marsh, San Francisco, Cal., assignors to Appliance and Electric Device Company. Electrical heater. No. 976,404; Nov. 22; Sp. p. 5152; Gaz. vol. 160; p. 874.
Shoff, Cleon C., Springfield, Mo. Gate-latch. No. 965,238; July 26; Sp. p. 4818; Gaz. vol. 156; p. 833.
Sholar, Edward H., Chattanooga, Tenn. Fireplace-grate. No. 978,227; Dec. 13; Sp. p. 1749; Gaz. vol. 161; p. 308.
Sholes, Frank L., Chicago, Ill., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 962,169; June 21; Sp. p. 4058; Gaz. vol. 155; p. 704.
Sholes, Frederick, Chicago, Ill. Type-writing machine. No. 963,949; July 12; Sp. p. 2036; Gaz. vol. 156; p. 335.
Sholes, Louis, Milwaukee, Wis. Type-writing machine. No. 945,987; Jan. 11; Sp. p. 2184; Gaz. vol. 150; p. 362.
Sholes, Zalmon G., New York, N. Y., assignor to West Disinfecting Company. Soap-cutting machine. No. 957,446; May 10; Sp. p. 2039; Gaz. vol. 154; p. 354.
Sholes, Zalmon G., New York, N. Y., assignor to West Disinfecting Company. Combined mixer and sprinkler. No. 967,450; Aug. 16; Sp. p. 3451; Gaz. vol. 157; p. 594.
Sholl, Max, Chicago, Ill. Collapsible drinking-cup. No. 957,264; May 10; Sp. p. 1662; Gaz. vol. 154; p. 292.
Shonk, Charles W., assignor to Charles W. Shonk Company, Maywood, Ill. Sheet-metal twine-holder sign. No. 964,323; July 12; Sp. p. 2810; Gaz. vol. 156; p. 463.
Shonk, William W., and J. A. Hutchinson, assignors to O. L. Bartlett, Mound City, Ill. Lathe. No. 952,474; Mar. 22; Sp. p. 4069; Gaz. vol. 152; p. 752.
Shonka, Paul P., Fairfax, Iowa. Door-catch. No. 952,715; Mar. 22; Sp. p. 4610; Gaz. vol. 152; p. 835.
Shonnard, Harold W., East Orange, N. J. Self-propelling torpedo. No. 973,141; Oct. 18; Sp. p. 3595; Gaz. vol. 159; p. 620.
Shook, David E. (See Brazier and Shook.)
Shook, Lowell B., Riverside, Cal., assignor of one-fourth to S. E. Shook, Cuyahoga Falls, Ohio. Twine-holder. No. 961,032; June 7; Sp. p. 1593; Gaz. vol. 155; p. 267.
Shook, Solomon E. (See Shook, Lowell B., assignor.)
Shoop, Myron A., Harram, Kans. Wrench. No. 952,955; Mar. 22; Sp. p. 5100; Gaz. vol. 152; p. 916.
Shope, David F., St. Paul, Minn. Cement-brick machine. No. 965,027; July 19; Sp. p. 4392; Gaz. vol. 156; p. 733.
Shopp, Benjamin R., Washington, Conn. Dental spatula. No. 977,906; Dec. 6; Sp. p. 1055; Gaz. vol. 161; p. 168.
Shorb, William A., and G. R. Rodgers, assignors to Leader Iron Works, Decatur, Ill. Air-regulator. No. 974,997; Nov. 8; Sp. p. 2104; Gaz. vol. 160; p. 342.
Shore, Albert F., assignor to Shore Instrument Manufacturing Company, New York, N. Y. Scleroscope. No. 962,790; June 28; Sp. p. 5396; Gaz. vol. 155; p. 942.
Shore, Ellis E., and W. T. Wilson, Rural Hall, N. C. Drying-rack for hay. No. 953,239; Mar. 29; Sp. p. 5727; Gaz. vol. 152; p. 1038.
Shore Instrument Manufacturing Company. (See Shore, Albert F., assignor.)
Short, Albert, Cedar Vale, Kans. Breeching. No. 971,695; Oct. 4; Sp. p. 380; Gaz. vol. 159; p. 67;
Short, Edwin E., Prairie View, Kans. Clothes-line support. No. 980,017; Dec. 27; Sp. p. 5604; Gaz. vol. 161; p. 969.
Short, Walter C., Denver, Colo. Stuffing-box. No. 969,207; Sept. 6; Sp. p. 139; Gaz. vol. 158; p. 22.
Shortland, Frederick. (See Wadsworth and Shortland.)
Shortridge, Martha L., Indianapolis, Ind. Poultry-killing apparatus. No. 956,202; Apr. 26; Sp. p. 5457; Gaz. vol. 153; p. 955.
Shorts, Clair D., Fern, Pa. Pipe-pulling machine. No. 951,621; Mar. 8; Sp. p. 2348; Gaz. vol. 152; p. 407.
Shortt, Howard G., assignor of one-half to J. F. Main, Carthage, N. Y. Adjustable oil-feed for journals. No. 955,608; Apr. 19; Sp. p. 4136; Gaz. vol. 153; p. 719.
Shotland, Paul, New York, N. Y. Coat. No. 958,977; May 24; Sp. p. 5575; Gaz. vol. 154; p. 937.
Shotwell, James, Watsonville, Cal. Swivel hose-coupling. No. 961,170; June 14; Sp. p. 1876; Gaz. vol. 155; p. 340.
Shouse, James E., Louisville, Ky. Ink-scraper attachment for penholders. No. 965,239; July 26; Sp. p. 4819; Gaz. vol. 156; p. 834.

Alphabetical list of patentees—Continued.

Showalter, William E., Harrisonburg, Va. Artificial limb. No. 977,974; Dec. 6; Sp. p. 1199; Gaz. vol. 161; p. 192.
Shrady, Charles D., Allentown, Pa. Screen. No. 975,470; Nov. 15; Sp. p. 3106; Gaz. vol. 160; p. 531.
Shreckengast, Ernest R., Millheim, Pa. Collapsible umbrella. No. 961,811; June 21; Sp. p. 3256; Gaz. vol. 155; p. 581.
Shreve, Caleb E., Atlantic City, N. J. Milk-can. No. 963,082; July 5; Sp. p. 113; Gaz. vol. 156; p. 20.
Shriver, W. B. (See Van Ostrand, Clifton J., assignor.)
Shrode, John L., Hopkinsville, assignor of one-fourth to F. W. Nunn and one-fourth to G. M. Crider, Marion, Ky. Can-opener. No. 954,054; Apr. 5; Sp. p. 741; Gaz. vol. 153; p. 130.
Shropshire, Jesse C., Anice, assignor of three-eighths to P. C. Mays, Vesta, and one-fourth to A. B. McLane, Branch, Ark. Gin-saw cleaner. No. 964,818; July 19; Sp. p. 3979; Gaz. vol. 156; p. 662.
Shrp-Shavr Razor Company. (See Osborn, Guy, assignor.)
Shrum, Peter J., Monaca, assignor, by mesne assignments, to Colona Manufacturing Company, Pittsburg, Pa. Thread-protector. No. 966,610; Aug. 9; Sp. p. 1663; Gaz. vol. 157; p. 284.
Shubert, Lee. (See Keller, John A., assignor.)
Shue, Edward F., New York, N. Y. Fender. No. 960,120; May 31; Sp. p. 8011; Gaz. vol. 154; p. 1346.
Shue, Philip H., Denver, Colo. Railway signaling device. No. 964,569; July 19; Sp. p. 3375; Gaz. vol. 156; p. 576.
Shue, Philip H., Denver, Colo. Railway signaling apparatus. No. 965,028; July 19; Sp. p. 4395; Gaz. vol. 156; p. 733.
Shufelt, James A., assignor to F. Conde, Oswego, N. Y. Fabric-marking machine. No. 976,609; Nov. 22; Sp. p. 5581; Gaz. vol. 160; p. 944.
Shuffelton, Lucius W., Bellefontaine, Ohio. Holder for razor-blades. No. 953,240; Mar. 29; Sp. p. 5729; Gaz. vol. 152; p. 1038.
Shufflebottom, William, and T. Kenworthy, Ashton-under-Lyne, England. Means for enabling driving and other ropes to be joined together. No. 979,214; Dec. 20; Sp. p. 3907; Gaz. vol. 161; p. 676.
Shuler, Darius P., Sudbury, Ontario, Canada. Separating nickel and copper from mattes. No. 967,072; Aug. 9; Sp. p. 2676; Gaz. vol. 157; p. 438.
Shuler, Edward. (See Burns, Anthony J., assignor.)
Shull, Walter G., New Brookland, S. C., assignor to Barber-Colman Company, Rockford, Ill. Loom-harness-holding device. No. 955,365; Apr. 19; Sp. p. 3605; Gaz. vol. 153; p. 636.
Shuller, Simon, Pittsburg, Pa. Rail-joint. No. 956,440; Apr. 26; Sp. p. 5967; Gaz. vol. 153; p. 1036.
Shultz, Albert B., Buffalo, N. Y. Engine-base. No. 975,167; Nov. 8; Sp. p. 2469; Gaz. vol. 160; p. 400.
Shultz, Albert B., Buffalo, N. Y. Exhaust manifold or pipe connection for explosion-engines. No. 976,610; Nov. 22; Sp. p. 5583; Gaz. vol. 160; p. 944.
Shultz, James F., Cody, Tex. Saddle-stirrup. No. 976,406; Nov. 22; Sp. p. 5154; Gaz. vol. 160; p. 875.
Shumaker, Charles J. (See Tanner, Daniel N., assignor.)
Shuman, Arno, Connellsville, Pa., assignor to The Continuous Glass Press Company. Machine for manufacture of wire-glass. No. 945,054; Jan. 4; Sp. p. 97; Gaz. vol. 150; p. 17.
Shuman, Frank, Philadelphia, Pa. Utilizing waste heat of compressors. No. 979,579; Dec. 27; Sp. p. 4676; Gaz. vol. 161; p. 821.
Shuman, Frank, Philadelphia, Pa., assignor to The Continuous Glass Press Company. Method of and means for annealing glass. No. 957,477; May 10; Sp. p. 2096; Gaz. vol. 154; p. 363.
Shuman, Frank G., Chicago, Ill. Coin-holder. No. 971,154; Sept. 27; Sp. p. 4285; Gaz. vol. 158; p. 754.
Shuman, Frank L., *et al.* (See Robinson, Charles E., assignor.)
Shuman, Fred B., Lowell, Ohio. Twine-holder. No. 962,791; June 28; Sp. p. 5399; Gaz. vol. 155; p. 942.
Shupe, Alfred E., Chicago, Ill. Safety-pin. No. 951,459; Mar. 8; Sp. p. 2036; Gaz. vol. 152; p. 352.
Shupe, John F., Cleveland, Ohio. Heat-retaining starch-cooker. No. 967,451; Aug. 16; Sp. p. 3452; Gaz. vol. 157; p. 595.
Shuster, Anson E., North Bend, Oreg. Umbrella-support. No. 967,253; Aug. 16; Sp. p. 3051; Gaz. vol. 157; p. 529.
Shuster, Anson E., North Bend, Oreg. Drawers-supporter. No. 977,754; Dec. 6; Sp. p. 732; Gaz. vol. 161; p. 115.
Shuster, Franklin B., New Haven, Conn. Pressure-controlled gas-valve. No. 966,611; Aug. 9; Sp. p. 1664; Gaz. vol. 157; p. 284.
Shuster, Franklin B., New Haven, Conn. Strip-metal straightening and cutting-off machine. No. 973,571; Oct. 25; Sp. p. 4525; Gaz. vol. 159; p. 790.
Shutts, Samuel B., and W. McHugh, Joliet, Ill. Blast-pipe for blast-furnaces. No. 946,404; Jan. 11; Sp. p. 3155; Gaz. vol. 150; p. 507.
Shwab, Paul, New York, N. Y. Water-closet seat. No. 963,820; July 12; Sp. p. 1770; Gaz. vol. 156; p. 293.
Sibert, Ernest R., Colorado Springs, Colo. Chuck. No. 973,985; Oct. 25; Sp. p. 5387; Gaz. vol. 159; p. 935.
Sibiski, John C., Baltimore, Md. Door check and buffer. No. 970,270; Sept. 13; Sp. p. 2423; Gaz. vol. 158; p. 408.
Sibley, Augustus W., assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Interchangeable-key lock. No. 960,421; June 7; Sp. p. 371; Gaz. vol. 155; p. 62.
Sibley, Clarence C., Perth Amboy, N. J. Time-stamp. No. 951,224; Mar. 8; Sp. p. 1534; Gaz. vol. 152; p. 276.
Sibold, Ambros, Stetten, Baden, Germany. Armor-waistcoat. No. 956,203; Apr. 26; Sp. p. 5460; Gaz. vol. 153; p. 956.
Sibold, Charles T., Dorr, W. Va. Folding egg-crate. No. 959,627; May 31; Sp. p. 6918; Gaz. vol. 154; p. 1178.
Sibole, Percy L., Wilkinsburg, Pa. Electric switch. No. 977,140; Nov. 29; Sp. p. 6776; Gaz. vol. 160; p. 1152.
Sibson & Stern. (See Branson, Thomas, assignor.)
Sibson, Walter W. (See Allsop and Sibson.)
Sibson, Walter W. (See Allsop, Sibson, and Hagar.)
Sicilian Asphalt Paving Company, The. (See Williamson and Brennan, assignors.)
Sick, Charles S., Dushore, Pa. Pail-holder. No. 978,666; Dec. 13; Sp. p. 2713; Gaz. vol. 161; p. 462.
Sicka, Louis T., assignor to Allis-Chalmers Company, Milwaukee, Wis. Agitator. No. 978,667; Dec. 13; Sp. p. 2715; Gaz. vol. 161; p. 462.
Sickels, Charles G., Seabright, Cal. Device for teaching swimming. No. 964,886; July 19; Sp. p. 4123; Gaz. vol. 156; p. 686.
Sickels, Emma C., New York, N. Y. Massage apparatus. No. 950,059; Feb. 22; Sp. p. 4857; Gaz. vol. 151; p. 855.
Sickler, Marion M., Los Angeles, Cal. Road-machine. No. 975,295; Nov. 8; Sp. p. 2742; Gaz. vol. 160; p. 444.
Sickles, Frank W., Hartford, Conn., T. D. Millea, and M. J. Carroll, assignors to Siro-Carbureter Manufacturing Company, Springfield, Mass. Carbureter. No. 955,292; Apr. 19; Sp. p. 3438; Gaz. vol. 153; p. 611.
Sidegreaves, Henry W., New York, N. Y. Flat-iron-handle cooler. No. 961,543; June 14; Sp. p. 2701; Gaz. vol. 155; p. 468.
Sidell, Philip S., Shreve, Ohio. Jointer attachment for plows. No. 946,279; Jan. 11; Sp. p. 2789; Gaz. vol. 150; p. 464.
Sidey, Franklin, Bewdley, Ontario, Canada, assignor of one-half to E. E. Ainlay, Columbus, Mont. Single harness. No. 978,069; Dec. 6; Sp. p. 1390; Gaz. vol. 161; p. 223.
Sidney, John. (See Wright, Samuel, assignor.)
Sidney Steel Scraper Company. (See Haslup, William, assignor.)
Sidney, Thomas H. (See Gaggs, Thomas, assignor.)
Sidney Tool Co., The. (See Paddock, Delbert M., assignor.)
Sidney, William E., assignor of one-third to W. J. Golightly and one-third to F. W. Jackson, Kokomo, Ind. Automatic-discharge lubricator. No. 975,646; Nov. 15; Sp. p. 3485; Gaz. vol. 160; p. 591.
Sidway, Henry T. (See Spengler and Sidway.)
Siebenhaar, Otto W., assignor to Rosendale Spreader Company, Rosendale, Wis. Fertilizer-distributer. No. 959,628; May 31; Sp. p. 6919; Gaz. vol. 154; p. 1178.
Siebenmorgen, William P. (See Fowler and Siebenmorgen.)
Sieber & Trussell Manufacturing Co. (See Dawson, James C., assignor.)
Sieber & Trussell Manufacturing Co. (See Heeter, Thomas E., assignor.)
Siebern, Albert N., *et al.* (See Thorne, Walter L., assignor.)
Siebern, Harry F., *et al.* (See Thorne, Walter L., assignor.)
Siebert, Charles M., Jr. (See McCall and Siebert.)
Siebert, Charles M., Jr. (See Siebert, Louis A. and C. M., Jr.)
Siebert, Charles M., Jr., Columbus, Ohio. Cup or head for massage devices. No. 950,121; Feb. 22; Sp. p. 4976; Gaz. vol. 151; p. 875.
Siebert, Charles M., Jr., Columbus, Ohio. Device for the treatment of rectal troubles. No. 968,704; Aug. 30; Sp. p. 6145; Gaz. vol. 157; p. 1072.
Siebert, Charles M., Jr., assignor to The Siebert-Welch Company, Columbus, Ohio. Cup or head for massage devices. No. 961,033; June 7; Sp. p. 1594; Gaz. vol. 155; p. 267.
Siebert, Charles M., Jr., assignor to The Siebert-Welch Company, Columbus, Ohio. Valve-operated mechanism for handles of vibratory apparatus. No. 961,379; June 14; Sp. p. 2342; Gaz. vol. 155; p. 414.
Siebert, Louis A. and C. M., Jr., assignors to The Siebert-Welch Company, Columbus, Ohio. Massage apparatus. No. 961,034; June 7; Sp. p. 1595; Gaz. vol. 155; p. 267.
Siebert-Welch Company, The. (See McCall and Siebert, assignors.)
Siebert-Welch Company, The. (See Siebert, Charles M., Jr., asisgnor.)
Siebert-Welch Company, The. (See Siebert, Louis A. and C. M., Jr., assignors.)
Siebold, Philip J. (See Gronde, Louis J., assignor.)
Sieder, Ernest H. (See Ehrsam, Sieder, and Morscher.)
Sieffert, John, Winnipegosis, Manitoba, Canada, assignor to W. H. Simmons, Hunter, N. D. Adjustable stock power grinder and pulper. No. 950,518; Mar. 1; Sp. p. 124; Gaz. vol. 152; p. 20.

Alphabetical list of patentees—Continued.

Siegel, June V., New York, N. Y. Automobile-veil. No. 958,329; May 17; Sp. p. 4230; Gaz. vol. 154; p. 690.
Siegel, June V., New York, N. Y. Automobile-veil. No. 987,510; Nov. 22; Sp. p. 5361; Gaz. vol. 160; p. 910.
Siegel, Max. (See Riback, Elias, assignor.)
Siegel, Siegmund M., New York, N. Y. Figure toy. No. 961,812; June 21; Sp. p. 3257; Gaz. vol. 155; p. 581.
Siegfried, Robert, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush-holder. No. 956,739; May 3; Sp. p. 511; Gaz. vol. 154; p. 82.
Siegfried, William A., Lehighton, Pa. Car-door lock. No. 962,395; June 21; Sp. p. 4512; Gaz. vol. 155; p. 779.
Siegmann, William G. F., assignor to The Sagax Wood Company, Baltimore, Md. Composition of matter. No. 960,422; June 7; Sp. p. 374; Gaz. vol. 155; p. 63.
Siegrist, Charles F., assignor to The Cleveland Steel Tool Company, Cleveland, Ohio. Valve. No. 967,845; Aug. 16; Sp. p. 4252; Gaz. vol. 157; p. 727.
Siegrist, Charles F., assignor, by mesne assignments, to The Cleveland Steel Tool Company, Cleveland, Ohio. Valve. No. 971,934; Oct. 4; Sp. p. 924; Gaz. vol. 159; p. 157.
Siemens, Gebrüder & Co. (See Egly, Georg, assignor.)
Siemens, Gebrueder & Co. (See Viertel and Egly, assignors.)
Siemens & Halske, A. G. (See Bolton, Werner von, assignor.)
Siemens & Halske, A. G. (See Ebeling, August W., assignor.)
Siemens & Halske, A. G. (See Ehrhardt, Erwin, assignor.)
Siemens & Halske, A. G. (See Gillet, Joseph, assignor.) (Reissue.)
Siemens & Halske, A. G. (See Kreusler, Hans, assignor.)
Siemens & Halske A. G. (See Simpson, Otto A., assignor.)
Siemens & Halske Aktiengesellschaft. (See Bolton, Werner von, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Schilling, Johannes, assignor.)
Siemens-Schuckert-Werke G. M. B. H. (See Meckelburg, Eduard, assignor.)
Siemens-Schuckertwerke G. m. b. H. (See Richter, Rudolf, assignor.)
Siemund, Heinrich L. J., New York, N. Y. Electric welding and repairing. No. 967,578; Aug. 16; Sp. p. 3719; Gaz. vol. 157; p. 640.
Siemund, Heinrich L. J., New York, N. Y. Electric welding and repairing. No. 967,579; Aug. 16; Sp. p. 3722; Gaz. vol. 157; p. 640.
Siemund, Heinrich L. J., New York, N. Y. Molding composition. No. 967,580; Aug. 16; Sp. p. 3725; Gaz. vol. 157; p. 641.
Siena, Rocco, Paterson, N. J. Non-refillable bottle. No. 968,993; Aug. 30; Sp. p. 6712; Gaz. vol. 157; p. 1169.
Sienknecht, W. H. (See Johnson, William A., assignor.)
Sieper, Richard, Lüdenscheid, Germany. Dowel. No. 968,089; Aug. 23; Sp. p. 4793; Gaz. vol. 157; p. 833.
Sies, B. F. (See Sies, Charles H., assignor.)
Sies, Charles H., Cedar Rapids, assignor of one-half to B. F. Sies, Davenport, Iowa. Hay-loader. No. 972,132; Oct. 4; Sp. p. 1335; Gaz. vol. 159; p. 225.
Sieurin, Paul W., Gottenborg, Sweden. Winch. No. 945,478; Jan. 4; Sp. p. 1009; Gaz. vol. 150; p. 158.
Sieverkropp, Henry R., Davenport, Iowa. Two-cycle explosion-engine. No. 979,040; Dec. 20; Sp. p. 3504; Gaz. vol. 161; p. 614.
Sievers, August, Ellerbeck, near Kiel, Germany. Smoke-house. No. 951,746; Mar. 8; Sp. p. 2599; Gaz. vol. 152; p. 449.
Sievert, Albert H. (See Sievert, Charles W., assignor.)
Sievert, Charles W., assignor of one-half to A. H. Sievert, Los Angeles, Cal. Oil-burner. No. 958,330; May 17; Sp. p. 4231; Gaz. vol. 154; p. 690.
Sievert, Paul T., Dresden, Germany. Machine for making hollow glass articles. No. 956,505; Apr. 26; Sp. p. 6115; Gaz. vol. 153; p. 1059.
Siewert, Alexander. (See Jaeger and Siewert.)
Sigerfoose, Gordon N. (See Inwood and Sigerfoose.)
Sigler, George T., *et al.* (See Brown, Leonard L., assignor.)
Sigler, William T., *et al.* (See Brown, Leonard L., assignor.)
Sigman, Harry, Voltaire, N. D. Jaw-trap. No. 966,612; Aug. 9; Sp. p. 1666; Gaz. vol. 157; p. 285.
Signal and Control Company, The. (See Aylward, Henry W., assignor.)
Sigoloff, Jacob, St. Louis, Mo. Saw. No. 962,535; June 28; Sp. p. 4854; Gaz. vol. 155; p. 853.
Sigurdsson, Oddur V., assignor to Oddur Manufacturing Company, New York, N. Y. Type-casting machine. No. 960,047; May 31; Sp. p. 7876; Gaz. vol. 154; p. 1323.
Sikes Company, The. (See Kipp, Burton E., assignor.)
Silberstein, Albert L., New York, N. Y. Razor-strop. No. 950,872; Mar. 1; Sp. p. 866; Gaz. vol. 152; p. 139.
Silbert, Harry, Boston, Mass. Machine for making hat-frames. No. 968,202; Aug. 23; Sp. p. 5051; Gaz. vol. 157; p. 871.
Silbert, Harry, and S. Wachtel, Boston, Mass. Machine for making hat-frames. No. 972,407; Oct. 11; Sp. p. 1931; Gaz. vol. 159; p. 339.
Siler, Aaron V., *et al.* (See Siler, Andrew J., assignor.)
Siler, Andrew J., assignor of one-third to A. V. Siler and one-third to H. S. Siler, Massillon, Ohio. Insulator. No. 954,350; Apr. 5; Sp. p. 1393; Gaz. vol. 153; p. 231.
Siler, H. Sumner, *et al.* (See Siler, Andrew J., assignor.)
Silfa, Belisario, Brooklyn, N. Y. Picture-frame. No. 954,351; Apr. 5; Sp. p. 1394; Gaz. vol. 153; p. 231.
Silfa, Belisario, assignor to Silfred Co., New York, N. Y. Feeding-gage for platen printing-presses. No. 953,718; Apr. 5; Sp. p. 67; Gaz. vol. 153; p. 15.
Silfred Co. (See Silfa, Belisario, assignor.)
Silk, John J. (See Apgar and Silk.)
Silknitter, Jacob, Germantown, Ohio. Sewing-stand. No. 953,767; Apr. 5; Sp. p. 170; Gaz. vol. 153; p. 31.
Silkworth-Froslid Machinery Company. (See Froslid, Anton S., assignor.)
Sill, Otte E., Los Angeles, Cal. Air-motor or windmill. No. 976,003; Nov. 15; Sp. p. 4203; Gaz. vol. 160; p. 712.
Sill, Richard V., Newark, N. J., assignor of two-thirds to A. E. Pelham, New York, N. Y. Loose-motion device for electric controllers. No. 964,819; July 19; Sp. p. 3981; Gaz. vol. 156; p. 662.
Silliman, Benjamin F., assignor to The Cleveland Steel Tool Company, Cleveland, Ohio. Valve. No. 976,222; Nov. 22; Sp. p. 4706; Gaz. vol. 160; p. 809.
Sills, Harry A., assignor of one-half to L. Sills, Robinson, Ill. Oil-well pick-up. No. 980,018; Dec. 27; Sp. p. 5605; Gaz. vol. 161; p. 969.
Sills, Lafe. (See Sills, Harry A., assignor.)
Silva, Luis M., Bogota, Colombia. Firearm. No. 969,500; Sept. 6; Sp. p. 740; Gaz. vol. 158; p. 117.
Silva, William P., Chattanooga, Tenn. Artist's sketching outfit. No. 957,805; May 10; Sp. p. 2767; Gaz. vol. 154; p. 474.
Silver, George J., Salt Lake City, Utah. Faucet. No. 966,061; Aug. 2; Sp. p. 473; Gaz. vol. 157; p. 76.
Silver, Joseph, New York, N. Y. Aluminum-solder. No. 968,203; Aug. 23; Sp. p. 5053; Gaz. vol. 157; p. 871.
Silverman, Joseph, Chicago, Ill. Shoe-shining chair. No. 967,452; Aug. 16; Sp. p. 3454; Gaz. vol. 157; p. 595.
Silverman, William, assignor of one-half to A. O. C. Ahrendts, East Liverpool, Ohio. Ceramic-decorating machine. No. 966,481; Aug. 9; Sp. p. 1350; Gaz. vol. 157; p. 240.
Silversmith, Isaac. (See Meyer and Silversmith.)
Silverstein, Isidor, New York, N. Y. Tag-attaching apparatus. No. 960,206; May 31; Sp. p. 8175; Gaz. vol. 154; p. 1376.
Silverstein, Morris L., Lawrence, Mass. Detachable leather heel. No. 965,415; July 26; Sp. p. 5206; Gaz. vol. 156; p. 893.
Simenson, Oscar C., Waukon, Iowa. Running-gear for bob-sleds. No. 968,705; Aug. 30; Sp. p. 6146; Gaz. vol. 157; p. 1073.
Simisky, Joseph A., Worcester, Mass. Ink-holder for pens. No. 961,171; June 14; Sp. p. 1878; Gaz. vol. 155; p. 341.
Simisky, Joseph A., Worcester, Mass. Pivotal-shackle permutation-padlock. No. 970,856; Sept. 20; Sp. p. 3688; Gaz. vol. 158; p. 630.
Simkins, Verne, Agaña, Island of Guam. Folding music-rack. No. 966,250; Aug. 2; Sp. p. 873; Gaz. vol. 157; p. 139.
Simm, H. (See Simm, William and H.)
Simm, William and H., Portico, near Prescot, England. Apparatus for production of zinc oxid. No. 946,688; Jan. 18; Sp. p. 3747; Gaz. vol. 150; p. 626.
Simmang, Charles, Jr., San Antonio, Tex. Apparatus for manufacturing door plates or signs. No. 951,343; Mar. 8; Sp. p. 1790; Gaz. vol. 152; p. 314.
Simmerly, Anthony R., Cleveland, Ohio. Collet. No. 970,129; Sept. 13; Sp. p. 2108; Gaz. vol. 158; p. 359.
Simmons, Arthur G., assignor to Simmons Manufacturing Company, Boston, Mass. Watering-trough. No. 977,561; Dec. 6; Sp. p. 339; Gaz. vol. 161; p. 49.
Simmons, Bert G., assignor to Johnson & Johnson, New Brunswick, N. J. Dentist's cotton-holder and waste-receptacle. No. 960,236; May 31; Sp. p. 8236; Gaz. vol. 154; p. 1386.
Simmons, Charles A., Albany, N. Y. Seal-lock. No. 971,571; Oct. 4; Sp. p. 132; Gaz. vol. 159; p. 25.
Simmons, Francis, Chicago, Ill. Combination sash fastener and lifter. No. 959,081; May 24; Sp. p. 5794; Gaz. vol. 154; p. 971.
Simmons, George D., Clarksdale, Miss. Swingletree attachment. No. 959,082; May 24; Sp. p. 5795; Gaz. vol. 154; p. 971.
Simmons, George P., Utica, N. Y. Lubricating journal-box. No. 970,271; Sept. 13; Sp. p. 2424; Gaz. vol. 158; p. 408.
Simmons Hardware Company. (See Bader, Herbert D., assignor.)
Simmons, Hellen G. (See Parker, George A., assignor.)
Simmons, James L., Washington, D. C., assignor, by mesne assignments, to National Specialty Company. Mop-wringer. No. 950,705; Mar. 1; Sp. p. 526; Gaz. vol. 152; p. 83.
Simmons, Jesse L., *et al.* (See Fowler, Edward, assignor.)
Simmons, Joel R., and P. J. Ford, Augusta, Ga. Operating mechanism for roundabouts. No. 960,448; June 7; Sp. p. 415; Gaz. vol. 155; p. 70.
Simmons Manufacturing Company, The. (See Gail, John F., assignor.)

Alphabetical list of patentees—Continued.

Simmons Manufacturing Company, The. (See Rudd, Otto, assignor.)
Simmons Manufacturing Company. (See Simmons, Arthur G., assignor.)
Simmons Manufacturing Company, The. (See Travis, Don C., assignor.)
Simmons Manufacturing Company, The. (See Wilson, John C., assignor.)
Simmons, Marcus A., Yeager, Okla. Cooler. No. 978,339; Dec. 13; Sp. p. 2000; Gaz. vol. 161; p. 348.
Simmons, Noah, Neosho, Mo. Can-opener. No. 966,711; Aug. 9; Sp. p. 1860; Gaz. vol. 157; p. 318.
Simmons, Oscar C., Avoca, Tex. Guard-rail. No. 948,597; Feb. 8; Sp. p. 1727; Gaz. vol. 151; p. 299.
Simmons, Oty T., *et al.* (See Fowler, Edward, assignor.)
Simmons, Robert T., Wynne, Ark. Cotton-chopper. No. 959,031; May 24; Sp. p. 5671; Gaz. vol. 154; p. 954.
Simmons, Samuel E., Litchfield, Ill. Carbid-lamp. No. 976,611; Nov. 22; Sp. p. 5585; Gaz. vol. 160; p. 944.
Simmons, Walter C., Gassaway, W. Va. Gas-controlling device. No. 959,397; May 24; Sp. p. 6424; Gaz. vol. 154; p. 1074.
Simmons, William H. (See Sieffert, John, assignor.)
Simms, Erskine A., Belmont, Mass. Milk-top remover. No. 970,759; Sept. 20; Sp. p. 3480; Gaz. vol. 158; p. 595.
Simon, Alois J., Chicago, Ill. Apparatus for clearing ice and snow from third rails of electric railways. No. 964,125; July 12; Sp. p. 2419; Gaz. vol. 156; p. 397.
Simon, Arthur, assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Alternating-current magnet. No. 969,809; Sept. 13; Sp. p. 1438; Gaz. vol. 158; p. 250.
Simon, Arthur L., Sturgeon Bay, Wis. Railway-spike. No. 963,330; July 5; Sp. p. 739; Gaz. vol. 156; p. 106.
Simon-Carves Bye-Product Coke Oven Construction and Working Company. (See Wilke, Carl, assignor.)
Simon, Edward, Shelby, Ohio, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Machine for forming incandescent-lamp mounts. No. 955,442; Apr. 19; Sp. p. 3768; Gaz. vol. 153; p. 662.
Simon, Emil J., assignor to The Radio Telephone Company, New York, N. Y. Spark-gap for radiotone wireless-telegraph systems. No. 971,935; Oct. 4; Sp. p. 927; Gaz. vol. 159; p. 157.
Simon, Frank, Minnar, Transvaal. Rope-jockey. No. 962,475; June 28; Sp. p. 4722; Gaz. vol. 155; p. 832.
Simon, Frank, Chicago, Ill. Shipping-crate. No. 963,331; July 5; Sp. p. 740; Gaz. vol. 156; p. 107.
Simon, George, New London, Wis. Sanding-machine. No. 978,497; Dec. 13; Sp. p. 2332; Gaz. vol. 161; p. 402.
Simon, Gregory, Pittsburg, Pa. Swing. No. 979,580; Dec. 27; Sp. p. 4678; Gaz. vol. 161; p. 821.
Simon, Henry, assignor of one-third to E. E. Wright and one-third to W. Joyce, Philadelphia, Pa. Roller-skate. No. 968,427; Aug. 23; Sp. p. 5508; Gaz. vol. 157; p. 950.
Simon, Henry H., Atlanta, Ga. Internal-combustion engine. No. 946,158; Jan. 11; Sp. p. 2522; Gaz. vol. 150; p. 421.
Simon, Natale, and E. E. Thibault, assignors of one-third to E. P. Suiter, Butte, Mont. Amalgamator. No. 968,888; Aug. 30; Sp. p. 6509; Gaz. vol. 157; p. 1133.
Simon, Nathan, Berlin, Germany. Collar-stiffener. No. 965,416; July 26; Sp. p. 5207; Gaz. vol. 156; p. 894.
Simon, Sylvester. (See Cunningham, Wilton, assignor.)
Simonds, Charles G., Schenectady, N. Y., assignor to General Electric Company. Air-compressor. No. 945,988; Jan. 11; Sp. p. 2187; Gaz. vol. 150; p. 363.
Simonds Manufacturing Company. (See Remington, Alfred M., assignor.)
Simonds, Royal H., Southbridge, Mass. Eyeglasses. No. 958,839; May 24; Sp. p. 5276; Gaz. vol. 154; p. 889.
Simonet, William, *et al.* (See Edwards, Charles B., assignor.)
Simono, Charley. (See McDonner, Charley, assignor.)
Simons, Frank, St. Louis, Mo. Bell-ringer. No. 961,544; June 14; Sp. p. 2702; Gaz. vol. 155; p. 469.
Simons, Frank E. (See Dunlap and Simons.)
Simons, Frederick, St. Louis, Mo. Workman's time and wage computing and recording apparatus. No. 975,296; Nov. 8; Sp. p. 2747; Gaz. vol. 160; p. 444.
Simons, John P. (See Graves and Simons.)
Simons, William F., assignor of one-half to J. L. Wareham, Atlantic City, N. J. Fishing-line reel and holder. No. 955,366; Apr. 19; Sp. p. 3607; Gaz. vol. 153; p. 637.
Simplex Concrete Piling Company. (See Cranford, Joseph H., assignor.)
Simplex Electric Heating Company. (See Ayer, James I., assignor.)
Simplex Electric Heating Company. (See Ayer and Gale, assignors.)
Simplex Electric Heating Company. (See Chandler, Edwin N., assignor.)
Simplex Electric Heating Company. (See Gale, Horace B., assignor.)
Simplex Fence Machine Company. (See Willmarth, Charles A., assignor.)
Simplex Manufacturing Company, The. (See Fancher and Burt, assignors.)
Simplex Manufacturing Company, The. (See Fancher, Burt, and Van Winkle, assignors.)
Simplex Motor Car Company, The. (See Gulick, Edward J., assignor.)
Simplex Piano Player Co. (See Brown, Theodore P., assignor.)
Simplex Piano Player Company *et al.* (See Welin, Peter, assignor.)
Simplex Railway Appliance Company. (See Bauer, Carl E., assignor.)
Simplex Telephone Equipment Company. (See Babcock, Garrison, assignor.)
Simplex Valve and Meter Company. (See Borden, Moro M., assignor.)
Simplex Valve & Meter Company. (See Ledoux, John W., assignor.)
Simpson, Albert D., Brighton, Iowa. Nut-locking device for rail-joints. No. 951,291; Mar. 8; Sp. p. 1676; Gaz. vol. 152; p. 297.
Simpson Bros. Corporation. (See Simpson, Joseph B., assignor.)
Simpson, Charles E., Portsmouth, Ohio. Brick re-press. No. 946,583; Jan. 18; Sp. p. 3514; Gaz. vol. 150; p. 592.
Simpson, Charles K., assignor of one-eighth to A. P. McDonald, Honolulu, Hawaii. Valve for the sound-boxes of talking-machines. No. 946,524; Jan. 11; Sp. p. 3420; Gaz. vol. 150; p. 548.
Simpson, Charles W., Loudon, Tenn. Check-book. No. 973,310; Oct. 18; Sp. p. 3962; Gaz. vol. 159; p. 678.
Simpson, David O. (See Crigger, Henry C., assignor.)
Simpson, Frederick L., Denver, Colo. Car and wagon loader. No. 975,297; Nov. 8; Sp. p. 2760; Gaz. vol. 160; p. 445.
Simpson, Jeremiah C., Iowa Falls, Iowa. Burial-vault. No. 976,407; Nov. 22; Sp. p. 5156; Gaz. vol. 160; p. 875.
Simpson, John. (See Spencer and Simpson.)
Simpson, John A. (See Stone and Simpson.)
Simpson, John E., and W. D. Puckett, assignors to The Portsmouth Machine & Casting Company, Portsmouth, Ohio. Car-truck. No. 972,581; Oct. 11; Sp. p. 2344; Gaz. vol. 159; p. 401.
Simpson, John H., Providence, R. I. Cuff-button. No. 950,353; Feb. 22; Sp. p. 5442; Gaz. vol. 151; p. 954.
Simpson, John T., assignor of one-half to J. B. Wright, Newark, N. J. Safety-tread. No. 960,048; May 31; Sp. p. 7880; Gaz. vol. 154; p. 1323.
Simpson, Joseph B., Newton, assignor to Simpson Bros. Corporation, Boston, Mass. Casting artificial stone. No. 962,924; June 28; Sp. p. 5639; Gaz. vol. 155; p. 987.
Simpson, Lowe E., College Hill, Ohio. Grinding-mill. No. 950,580; Mar. 1; Sp. p. 248; Gaz. vol. 152; p. 41.
Simpson, Otto A., Charlottenburg, assignor to Siemens & Halske A. G., Berlin, Germany. Case-hardening tantalum. No. 974,835; Nov. 8; Sp. p. 1699; Gaz. vol. 160; p. 286.
Simpson, Philip, New York, N. Y. Musical time-indicator. No. 952,370; Mar. 15; Sp. p. 3843; Gaz. vol. 152; p. 688.
Simpson, Richard M., Wellington, New Zealand. Apparatus for separating metals and the like from extraneous matter. No. 957,478; May 10; Sp. p. 2098; Gaz. vol. 154; p. 364.
Simpson, Richard W., assignor of one-half to E. McDaniels, Chicago, Ill. Cultivator. No. 949,383; Feb. 15; Sp. p. 3384; Gaz. vol. 151; p. 590.
Simpson, Robert, Glasgow, Scotland. Loom for weaving tufted pile fabrics. No. 947,765; Jan. 25; Sp. p. 6097; Gaz. vol. 150; p. 1016.
Simpson, Robert D., Columbus, Ohio. Toy pistol. No. 973,886; Oct. 25; Sp. p. 5194; Gaz. vol. 159; p. 901.
Simpson, Robert D., Columbus, assignor to The National Safety Snap Company, Wilmington, Ohio. Hame-fastener. No. 960,423; June 7; Sp. p. 375; Gaz. vol. 155; p. 63.
Simpson, Selden L., assignor to The Simpson Specialty Company, Cleveland, Ohio. Vehicle-wheel tire and rim. No. 974,713; Nov. 1; Sp. p. 1444; Gaz. vol. 160; p. 223.
Simpson, Selden L., assignor to The Simpson Specialty Company, Cleveland, Ohio. Fiber tire for vehicle-wheels. No. 974,714; Nov. 1; Sp. p. 1445; Gaz. vol. 160; p. 223.
Simpson, Seldon L., Washington, D. C., assignor to The Simpson Specialty Company, Cleveland, Ohio. Vehicle-wheel. No. 976,938; Nov. 29; Sp. p. 6313; Gaz. vol. 160; p. 1082.
Simpson Specialty Company, The. (See Simpson, Selden L., assignor.)
Simpson, Stephen, Exeter, England. Dry meter. No. 953,864; Apr. 5; Sp. p. 364; Gaz. vol. 153; p. 65.
Simpson, Thomas B. (See Merrett, Henry and C. E., assignors.)
Simpson, Thomas W., Castleford, England. Machine for the manufacture of glass bottles. No. 978,228; Dec. 13; Sp. p. 1752; Gaz. vol. 161; p. 309.
Simpson, William, *et al.* (See Haney, Frederick G., assignor.)
Simpson, William B., Chicago, Ill. Stairway structure. No. 954,893; Apr. 12; Sp. p. 2626; Gaz. vol. 153; p. 447.
Simpson, William B., Shreveport, La. Gate. No. 967,453; Aug. 16; Sp. p. 3456; Gaz. vol. 157; p. 596.
Simpson, William S., London, England, assignor, by mesne assignments, to United States Carbo-Welding Company of Delaware. Shaft. No. 967,145; Aug. 9; Sp. p. 2830; Gaz. vol. 157; p. 464.

Simpson, William S., London, England, assignor to United States Carbo-Welding Company of Delaware. Armor-plate. No. 967,146; Aug. 9; Sp. p. 2833; Gaz. vol. 157; p. 464,
Sims, James L., Ben Wheeler, Tex. Hoisting device. No. 973,572; Oct. 25; Sp. p. 4527; Gaz. vol. 159; p. 791.
Sims, John R., Barnesville, Ga. Reciprocating churn. No. 965,956; Aug. 2; Sp. p. 216; Gaz. vol. 157; p. 38.
Sims, Lewis C., Louisville, Ohio. Rope-fastener. No. 962,675; June 28; Sp. p. 5145; Gaz. vol. 155; p. 900.
Sims, Samuel C., Sterling, Ill. Dental cabinet. No. 973,573; Oct. 25; Sp. p. 4529; Gaz. vol. 159; p. 791.
Simson, Francis C., Halifax, Nova Scotia, Canada. Illuminating composition. No. 966,251; Aug. 2; Sp. p. 876; Gaz. vol. 157; p. 139.
Simson, Frederick W., Winthrop, Mass. Car-ventilator. No. 962,476; June 28; Sp. p. 4723; Gaz. vol. 155; p. 833.
Sinčić, Josef, Bakar, Austria-Hungary. Propelling means for vessels. No. 958,020; May 17; Sp. p. 3333; Gaz. vol. 154; p. 580.
Sinclair, Alfred A. (See McWatty and Sinclair.)
Sinclair, Robert, Chicago, Ill. Ditching-machine. No. 961,321; June 14; Sp. p. 2236; Gaz. vol. 155; p. 394.
Sinding-Larsen, Alf, Christiania, Norway. Making silicon nitrid. No. 962,170; June 21; Sp. p. 4061; Gaz. vol. 155; p. 705.
Sinek, William J. (See Blome and Sinek.)
Siner, Charles B., Philadelphia, Pa. Rim for tires of motor-vehicle wheels. No. 977,843; Dec. 6; Sp. p. 919; Gaz. vol. 161; p. 145.
Siner, Charles B., Philadelphia, Pa. Rim for tires of motor-vehicle wheels. No. 977,844; Dec. 6; Sp. p. 920; Gaz. vol. 161; p. 146.
Singelyn, Adolph, Detroit, Mich. Ash-pan. No. 950,964; Mar. 1; Sp. p. 1054; Gaz. vol. 152; p. 168.
Singenstreu, Hermann, Braunschweig, assignor to H. Lutze, Aldershof, Germany. Writing and reading desk. No. 951,083; Mar. 1; Sp. p. 1253; Gaz. vol. 152; p. 206.
Singer, Jacob, Dorna Watra, Austria-Hungary. Protective shield for guns. No. 964,570; July 19; Sp. p. 3378; Gaz. vol. 156; p. 577.
Singer, John C. (See Singer, William O. and J. C.)
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Singer Manufacturing Company, The. (See Allen and Ringe, assignors.)
Singer Manufacturing Company, The. (See Berger, Joseph, assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Eames, George M., assignor.)
Singer Manufacturing Company, The. (See Eames and Finch, assignors.)
Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
Singer Manufacturing Company, The. (See Greene and Büchner, assignors.)
Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Singer Manufacturing Company, The. (See Horton, Charles M., assignor.)
Singer Manufacturing Company, The. (See Jacob, Frederick, assignor.)
Singer Manufacturing Company, The. (See Jacobson, Peter, assignor.)
Singer Manufacturing Company, The. (See McFarlane, Hugh, assignor.)
Singer Manufacturing Company, The. (See Miller, William V., assignor.)
Singer Manufacturing Company, The. (See Molyneux, George E., assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Singer Manufacturing Company, The. (See Nydegger, Paul F., assignor.)
Singer Manufacturing Company, The. (See Traub, Emil, assignor.)
Singer, William O. and J. C., Cresson, Pa. Wrench. No. 955,004; Apr. 12; Sp. p. 2853; Gaz. vol. 153; p. 484.
Single Service Package Corporation. (See Jenkins, Charles F., assignor.)
Single Service Package Corporation of America. (See Jenkins, Alfred W., assignor.)
Single Service Package Corporation of America. (See Jenkins, Charles F., assignor.)
Single Service Package Corporation of America. (See Plimpton, Harry C., assignor.)
Singley, Charles B. and G. W., Lewiston, Mont. Hay-stacker. No. 949,161; Feb. 15; Sp. p. 2905; Gaz. vol. 151; p. 515.
Singley, George W. (See Singley, Charles B. and G. W.)
Sinner, John, and W. Sinz, Casselton, N. D. Manure-loader. No. 954,545; Apr. 12; Sp. p. 1810; Gaz. vol. 153; p. 325.
Sinnott, William L. (See White, Clarence W., assignor.)
Sinskey, Adolf. (See Niemeyer, Lehmann, and Sinskey.)
Sinz, William. (See Sinner and Sinz.)
Sipherd, George E., Galesburg, Ill. Boot and shoe cleaner. No. 965,029; July 19; Sp. p. 4399; Gaz. vol. 156; p. 734.
Sipler, Gustave, Minneapolis, Minn. Threshing-machine. No. 976,306; Nov. 22; Sp. p. 4929; Gaz. vol. 160; p. 840.
Sipos, Joseph, South Norwalk, Conn. Wrench. No. 951,849; Mar. 15; Sp. p. 2827; Gaz. vol. 152; p. 515.
Sipos, Joseph, South Norwalk, Conn. Lock. No. 962,792; June 28; Sp. p. 5400; Gaz. vol. 155; p. 942.
Sipp, Grant. (See McLane and Sipp.)
Siro-Carbureter Manufacturing Company. (See Sickles, Millea, and Carroll, assignors.)
Sirrine, Ernest E., Chicago, Ill. Street-traffic system. No. 976,939; Nov. 29; Sp. p. 6314; Gaz. vol. 160; p. 1082.
Sisbower, George F., assignor to New York Couch Bed Company, New York, N. Y. Folding bed. No. 954,218; Apr. 5; Sp. p. 1123; Gaz. vol. 153; p. 186.
Sismondi, Camillo, assignor to Societa Per Brevetti Postali E Ferroviari Con Sede in Torino, Turin, Italy. Lock for mail-bags or the like. No. 948,555; Feb. 8; Sp. p. 1642; Gaz. vol. 151; p. 286.
Sissom, Jasper A., assignor of one-third to J. W. Barker, Joplin, Mo. Elevator safety device. No. 958,943; May 24; Sp. p. 5506; Gaz. vol. 154; p. 924.
Sites, Robert L., Knoxville, Tenn., assignor to W. J. Oliver Manufacturing Company. Dump-car. No. 953,865; Apr. 5; Sp. p. 366; Gaz. vol. 153; p. 65.
Sitton, Frank, San Jose, assignor of one-fourth to P. H. Gallarda, Morgan Hill, Cal. Enharmonic piano. No. 963,256; July 5; Sp. p. 590; Gaz. vol. 156; p. 82.
Sitts, William H., Chicago, Ill. Water-meter. No. 950,544; Mar. 1; Sp. p. 170; Gaz. vol. 152; p. 29.
Sivard, Einar L. M., New York, N. Y., assignor to Welin Davit and Lane & De Groot Company, Consolidated. Davit for ships' boats and similar purposes. No. 956,204; Apr. 26; Sp. p. 5461; Gaz. vol. 153; p. 956.
Sivertsen, Victor A. E., and J. C. Nielsen, Copenhagen, Denmark, assignors to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 971,696; Oct. 4; Sp. p. 382; Gaz. vol. 159; p. 67.
Six, David H., Baltimore, Md. Switch-throwing device. No. 964,571; July 19; Sp. p. 3379; Gaz. vol. 156; p. 577.
Sizemore, Francis M., Stewardson, Ill. Cooling device for explosive-engine cylinders. No. 952,148; Mar. 15; Sp. p. 3409; Gaz. vol. 152; p. 614.
Sizer, Edward D., Sizerville, Pa. Muffler. No. 956,906; May 3; Sp. p. 891; Gaz. vol. 154; p. 141.
Sizer, Thad, Audubon, Iowa. Buggy-boot spring. No. 947,949; Feb. 1; Sp. p. 360; Gaz. vol. 151; p. 58.
Sjastram, Johan, Steamboat Springs, Colo. Smoking-pipe. No. 957,116; May 3; Sp. p. 1314; Gaz. vol. 154; p. 209.
Sjögren, Carl A. T., assignor to Aktiebolaget Svenska Vapen-Och Ammunitions Fabriken, Stockholm, Sweden. Recoil-loading gun. No. 954,546; Apr. 12; Sp. p. 1812; Gaz. vol. 153; p. 325.
Sjolander, Jacob R., Ironwood, Mich. Fish-hook. No. 954,352; Apr. 5; Sp. p. 1394; Gaz. vol. 153; p. 231.
Skaba, John, assignor of one-half to J. Jirus, Sr., Braidwood, Ill. Safety-stop for elevators. No. 950,459; Feb. 22; Sp. p. 5629; Gaz. vol. 151; p. 988.
Skavlen, Peter H., Cedar Vale, Kans. Whiffletree-hook. No. 948,527; Feb. 8; Sp. p. 1573; Gaz. vol. 151; p. 277.
Skeels, Henry E. (See Nichols and Skeels.)
Skeith, Isaac L., Milwaukee, Wis. Saw-guide. No. 969,810; Sept. 13; Sp. p. 1441; Gaz. vol. 158; p. 250.
Skelly, John S., Monongahela, Pa. Cable-grip. No. 963,479; July 5; Sp. p. 1034; Gaz. vol. 156; p. 157.
Skelton, William A., Jacksonville, Ala. Machine for making concrete pipes. No. 956,200; Apr. 26; Sp. p. 5456; Gaz. vol. 153; p. 955.
Skidd, Charles, Kenosha, Wis. Pasteurizer. No. 955,481; Apr. 19; Sp. p. 3845; Gaz. vol. 153; p. 676.
Skidmore, C Burton, Sioux City, Iowa. Expansion-bolt. No. 948,938; Feb. 8; Sp. p. 2427; Gaz. vol. 151; p. 413.
Skidmore, John C., Grapeland, Tex. Plow-fender. No. 962,264; June 21; Sp. p. 4251; Gaz. vol. 155; p. 736.
Skidmore, John H., Hiawatha, Kans. Strap-joint. No. 948,350; Feb. 8; Sp. 1186; Gaz. vol. 151; p. 218.
Skiff, Frank S., Portland, Oreg. Flexible faucet connection. No. 947,461; Jan. 25; Sp. p. 5475; Gaz. vol. 150; p. 915.
Skiles, Robert M. (See Carroll and Skiles.)
Skillcorn, John H., Pittsburg, Pa. Automatic gas cut-off. No. 961,904; June 21; Sp. p. 3458; Gaz. vol. 155; p. 612.
Skilling, William T., San Diego, Cal. Solar illuminating and projecting apparatus. No. 951,850; Mar. 15; Sp. p. 2828; Gaz. vol. 152; p. 515.
Skillman, Walter A., Springfield, S. D. Pneumatic pad for horse-collars. No. 968,607; Aug. 30; Sp. p. 5898; Gaz. vol. 157; p. 1039.
Skinkle, William A., *et al.* (See Rees, Morgan, assignor.)
Skinner, Ado D. (See Green, Charles M., assignor.)
Skinner, Clarence S., Payne, Ohio. Disk-support. No. 975,298; Nov. 8; Sp. p. 2761; Gaz. vol. 160; p. 445.
Skinner, Edwin M., Fort Wadsworth, N. Y. Auxiliary tool for use in connection with spades. No. 962,723; June 28; Sp. p. 5258; Gaz. vol. 155; p. 917.
Skinner, J. W., *et al.* (See Gullickson, Charles M., assignor.)
Skinner, Lee B., Dunedin, Fla. Fruit-cleaner. No. 967,680; Aug. 16; Sp. p. 3913; Gaz. vol. 157; p. 671.

Alphabetical list of patentees—Continued.

Skinner, Theodore H., Oneida, N. Y. Constructing dams, docks, and similar water-retaining or water-excluding structures. No. 973,821; Oct. 25; Sp. p. 5047; Gaz. vol. 159; p. 878.
Skinner, William I., Richfield, N. Y. Potato-digger. No. 961,545; June 14; Sp. p. 2705; Gaz. vol. 155; p. 469.
Skipp, Herbert J., Newark, N. J. Apparatus for drilling and counterboring thread-holes and cutting thread-niches in button-blanks. No. 974,532; Nov. 1; Sp. p. 1050; Gaz. vol. 160; p. 157.
Skipp, Herbert J., Newark, N. J. Holding or clamping chuck for machines for boring and niching thread-holes in button-blanks. No. 979,714; Dec. 27; Sp. p. 4943; Gaz. vol. 161; p. 867.
Skirrow, John F., East Orange, N. J. Switchboard for electrical conductors. No. 963,480; July 5; Sp. p. 1035; Gaz. vol. 156; p. 157.
Skirrow, John F., East Orange, N. J., and J. T. Needham, New York, N. Y., assignors, by mesne assignments, to Inter State Tube Company. Transfer-tube system. No. 976,753; Nov. 22; Sp. p. 5874; Gaz. vol. 160; p. 993.
Skirtun, Stanislaw, San Francisco, Cal. Wave-motor. No. 950,460; Feb. 22; Sp. p. 5630; Gaz. vol. 151; p. 988.
Skitt, James H. (See Drum and Skitt.)
Skjeldrup, Ingvald, Fergus Falls, Minn. Push-rake. No. 979,346; Dec. 20; Sp. p. 4169; Gaz. vol. 161; p. 719.
Sklovsky, Max, and G. W. Mixter, assignors to Deere & Company, Moline, Ill. Conveyer. No. 969,415; Sept. 6; Sp. p. 561; Gaz. vol. 158; p. 90.
Skofsrud, Anton, Chicago, Ill. Reel or winding-machine. No. 952,282; Mar. 15; Sp. p. 3681; Gaz. vol. 152; p. 658.
Skoog, Andrew L., Minneapolis, Minn. Key-controlled music-instruction board. No. 972,934; Oct. 18; Sp. p. 3146; Gaz. vol. 159; p. 549.
Skopinski, Adolf, Jack Wade, Alaska. Means for automatically dumping excavating-scrapers. No. 960,590; June 7; Sp. p. 718; Gaz. vol. 155; p. 118.
Skow, Niels K., Newton, Iowa. Road-grader. No. 978,498; Dec. 13; Sp. p. 2335; Gaz. vol. 161; p. 403.
Skow, Willie, Devils Lake, N. D. Hand-stamp. No. 954,353; Apr. 5; Sp. p. 1395; Gaz. vol. 153; p. 231.
Skripec, John P., Cincinnati, Ohio. Drawing-table. No. 953,719; Apr. 5; Sp. p. 70; Gaz. vol. 153; p. 15.
Skriwan, Emil, Vienna, Austria-Hungary. Mantle-tying apparatus. No. 963,821; July 12; Sp. p. 1772; Gaz. vol. 156; p. 294.
Slady, Frank W., assignor to The Bryant Electric Company, Bridgeport, Conn. Pull-socket. No. 958,554; May 17; Sp. p. 4664; Gaz. vol. 154; p. 766.
Slaght, Daniel C., Easton, Pa. Hill-climbing wheel. No. 965,030; July 19; Sp. p. 4400; Gaz. vol. 156; p. 734.
Slaght, Elias E. (See Danaher, John W., assignor.)
Slaker, Helen M., Aurora, Ill. Curling-iron. No. 970,272; Sept. 13; Sp. p. 2426; Gaz. vol. 158; p. 409.
Slapo, Isaac, New York, N. Y. Baker's oven. No. 957,479; May 10; Sp. p. 2100; Gaz. vol. 154; p. 364.
Slater, Dwight C., Essex Junction, Vt. Portable house. No. 960,207; May 31; Sp. p. 8179; Gaz. vol. 154; p. 1376.
Slater, George W. (See Benham and Slater.)
Slater, George W., *et al.* (See Huntley, Stephen A., assignor.)
Slater, Harris W., Lake Mahopac, assignor to The National Machine Company, Mamaroneck, N. Y. Thread-trimming mechanism. No. 957,265; May 10; Sp. p. 1663; Gaz. vol. 154; p. 292.
Slatter, George, Plumtree, England. Lawn-mower. No. 965,031; July 19; Sp. p. 4402; Gaz. vol. 156; p. 735.
Slaughter, Alice. (See Rigby, Nicholas L., assignor.)
Slaughter, William F., Republic, Mich. Lubricator for cables. No. 945,622; Jan. 4; Sp. p. 1312; Gaz. vol. 150; p. 205.
Slavin, Nathan, New York, N. Y. Hoisting-cart. No. 956,205; Apr. 26; Sp. p. 5463; Gaz. vol. 153; p. 956.
Slavin, William J., assignor to Winchester Optical Company, Horseheads, N. Y. Lens-grinding machine. No. 980,133; Dec. 27; Sp. p. 5899; Gaz. vol. 161; p. 1007.
Slawter, Frank M., Sedalia, Colo. Firearm. No. 966,482; Aug. 9; Sp. p. 1356; Gaz. vol. 157; p. 240.
Slaybaugh, James, and J. Aff, Philadelphia, Pa. Cutting-machine. No. 954,705; Apr. 12; Sp. p. 2169; Gaz. vol. 153; p. 379.
Slaymaker Lock Manufacturing Corporation, The. (See Miller and Slaymaker, assignors.)
Slaymaker, Samuel R. (See Miller and Slaymaker.)
Slayton, William. (See Meattauer, Frank, assignor.)
Sleade, Louis F., Denver, assignor of one-half to W. A. Sherwood, Silverton, Colo. Tunneling-machine. No. 945,623; Jan. 4; Sp. p. 1314; Gaz. vol. 150; p. 206.
Sleade, Louis F., Denver, assignor of one-half to W. A. Sherwood, Silverton, Colo. Rock-drill. No. 945,624; Jan. 4; Sp. p. 1325; Gaz. vol. 150; p. 206.
Sleade, Louis F., Denver, assignor of one-half to W. A. Sherwood, Silverton, Colo. Internal-combustion engine. No. 952,438; Mar. 15; Sp. p. 3969; Gaz. vol. 152; p. 710.
Sleeper, Joseph J., Philadelphia, Pa. Advertising apparatus. No. 956,206; Apr. 26; Sp. p. 5465; Gaz. vol. 153; p. 956.
Sleeper, Joseph J., Moores, Pa. Concrete block and wall construction. No. 959,629; May 31; Sp. p. 6924; Gaz. vol. 154; p. 1179.
Sleeth Manufacturing Company. (See Wheelwright, George W., assignor.)
Sleeth, Montgomery, Wilmerding, assignor to Fort Pitt Bedding Company, Pittsburg, Pa. Bed-spring-supporting frame. No. 969,501; Sept. 6; Sp. p. 744; Gaz. vol. 158; p. 117.
Sleicher, Charles A., assignor to Standard Compound Company, Troy, N. Y. Composition of matter for foundry-cores. No. 973,574; Oct. 25; Sp. p. 4530; Gaz. vol. 159; p. 791.
Sleight, William H., St. Louis, Mo. Bed-bottom fabric. No. 969,568; Sept. 6; Sp. p. 893; Gaz. vol. 158; p. 142.
Slemmer, De Witt A., *et al.* (See Lautzenhiser and Chandler, assignors.)
Slemmer, Frank G., Goldsboro, Md. Telegraph instrument. No. 965,417; July 26; Sp. p. 5209; Gaz. vol. 156; p. 894.
Slemmer, Frank G., Goldsboro, Md. Telegraph-key. No. 971,572; Oct. 4; Sp. p. 133; Gaz. vol. 159; p. 25.
Slentz, Albertus O., assignor of one-half to Canton Foundry and Machine Company, Canton, Ohio. Turn-table. No. 971,796; Oct. 4; Sp. p. 595; Gaz. vol. 159; p. 104.
Sleph, Louis J., Chicago, Ill. Turn-table. No. 967,581; Aug. 16; Sp. p. 3726; Gaz. vol. 157; p. 641.
Slichter, Walter I., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 973,575; Oct. 25; Sp. p. 4531; Gaz. vol. 159; p. 791.
Slick, Edwin E., Pittsburg, Pa. Rolling rails. No. 947,164; Jan. 18; Sp. p. 4756; Gaz. vol. 150; p. 784.
Slick, Edwin E., Pittsburg, Pa. Rail-fastening. No. 950,080; Feb. 22; Sp. p. 4891; Gaz. vol. 151; p. 861.
Slick, Edwin E., Pittsburg, Pa. Explosive-engine. No. 954,219; Apr. 5; Sp. p. 1126; Gaz. vol. 153; p. 187.
Slick, Edwin E., Pittsburg, Pa. Method of and apparatus for producing gas. No. 957,006; May 3; Sp. p. 1099; Gaz. vol. 154; p. 173.
Slick, Edwin E., Pittsburg, Pa. Gas-producer. No. 957,007; May 3; Sp. p. 1102; Gaz. vol. 154; p. 173.
Slick, Edwin E., Pittsburg, Pa. Manufacture of wheels. No. 965,032; July 19; Sp. p. 4403; Gaz. vol. 156; p. 735.
Slick, Edwin E., Pittsburg, Pa. Making wheels or circular bodies having peripheral treads. No. 965,033; July 19; Sp. p. 4406; Gaz. vol. 156; p. 735.
Slick, Edwin E., Pittsburg, Pa. Rotary shears. No. 965,034; July 19; Sp. p. 4409; Gaz. vol. 156; p. 736.
Slick, Edwin E., Pittsburg, Pa. Manufacture of wheels. No. 965,035; July 19; Sp. p. 4412; Gaz. vol. 156; p. 736.
Slick, Edwin E., Pittsburg, Pa. Method of and apparatus for forging metal. No. 965,036; July 19; Sp. p. 4419; Gaz. vol. 156; p. 736.
Slick, Edwin E., Pittsburg, Pa. Rotary shears. No. 965,037; July 19; Sp. p. 4422; Gaz. vol. 156; p. 737.
Slick, Edwin E., Pittsburg, Pa. Method of and apparatus for rolling hollow metal bodies. No. 965,038; July 19; Sp. p. 4425; Gaz. vol. 156; p. 737.
Slick, Edwin E., Pittsburg, Pa. Forming flanged metal wheels. No. 965,039; July 19; Sp. p. 4428; Gaz. vol. 156; p. 737.
Slick, Edwin E., Pittsburg, Pa. Forged-metal car-wheel. No. 965,040; July 19; Sp. p. 4431; Gaz. vol. 156; p. 738.
Slick, Edwin E., Pittsburg, Pa. Forming flanged metal wheels. No. 965,041; July 19; Sp. p. 4432; Gaz. vol. 156; p. 738.
Slick, Edwin E., Pittsburg, Pa. Pump. No. 978,668; Dec. 13; Sp. p. 2716; Gaz. vol. 161; p. 462.
Slick, William W. (See Hogle and Slick.)
Sligar, James W., Weatherford, Tex. Coffee-mill. No. 971,084; Sept. 27; Sp. p. 4151; Gaz. vol. 158; p. 732.
Slingluff, Harry G., Allegheny, Pa., assignor to Pittsburgh Plate Glass Company. Manufacture of glass articles. No. 958,840; May 24; Sp. p. 5278; Gaz. vol. 154; p. 890.
Sloan, D. L. (See Christensen, Christian H., assignor.)
Sloan, Harry M., Chicago, Ill. Street-car. No. 951,661; Mar. 8; Sp. p. 2437; Gaz. vol. 152; p. 421.
Sloan, James O., *et al.* (See Scott, Samuel J., assignor.)
Sloan, James R., Altoona, Pa., assignor to Gould Storage Battery Company. Electrical train system. No. 967,681; Aug. 16; Sp. p. 3914; Gaz. vol. 157; p. 672.
Sloan Valve Company. (See Sloan, William E., assignor.)
Sloan, William E., assignor to Sloan Valve Company, Chicago, Ill. Valve. No. 977,562; Dec. 6; Sp. p. 340; Gaz. vol. 161; p. 50.
Slocum, Alfred K., *et al.* (See Hutchinson, Raleigh E., assignor.)
Slocum, Fred, Caro, Mich. Metallic harness-collar neck-pad. No. 963,950; July 12; Sp. p. 2043; Gaz. vol. 156; p. 335.
Sloderbeck, Martin C., assignor of one-third to E. E. Leapley and one-third to E. F. Walsh, Marion, Ind. Automatic derailer. No. 974,715; Nov. 1; Sp. p. 1447; Gaz. vol. 160; p. 223.
Slonecker, Abiram J., Trenton, Mo. Belt-lacing. No. 950,009; Feb. 22; Sp. p. 4745; Gaz. vol. 151; p. 838.
Slonecker, Abiram J., Trenton, Mo. Variable-speed transmission-gearing. No. 950,010; Feb. 22; Sp. p. 4746; Gaz. vol. 151; p. 838.
Slope, Charles G., Forest Gate, England. Teapot. No. 950,732; Mar. 1; Sp. p. 587; Gaz. vol. 152; p. 93.

Alphabetical list of patentees—Continued.

Sloper, Thomas, Devizes, England. Antislipping stud or block. No. 948,435; Feb. 8; Sp. p. 1376; Gaz. vol. 151; p. 245.

Sloper, Thomas, Devizes, England. Mechanism for manufacturing pneumatic tires. No. 961,172; June 14; Sp. p. 1879; Gaz. vol. 155; p. 341.

Sloper, Thomas, Devizes, England. Manufacture or treatment of lengths of cord or other material. No. 965,240; July 26; Sp. p. 4820; Gaz. vol. 156; p. 834.

Slorach, John, Cleveland, Johannesburg, Transvaal. Valve device. No. 961,173; June 14; Sp. p. 1883; Gaz. vol. 155; p. 342.

Slotkin, Mayer, New York, N. Y. Velocipede. No. 946,280; Jan. 11; Sp. p. 2790; Gaz. vol. 150; p. 464.

Slotta, Ernst J. P., Coswig, near Dresden, Germany. Templet or gage. No. 962,171; June 21; Sp. p. 4062; Gaz. vol. 155; p. 705.

Slough, Edward T., deceased; John F. Devine, Chicago, Ill., administrator, assignor to E. Slough, Delaware, Ohio. Valve. No. 950,464; Feb. 22; Sp. p. 5647; Gaz. vol. 151; p. 990.

Slough, Elizabeth. (See Slough, Edward T., assignor.)

Slough, Max R., Covina, Cal. Dental advertising device. No. 961,262; June 14; Sp. p. 2068; Gaz. vol. 155; p. 372.

Slough, Max R., Covina, Cal. Detachable sanitary covering for toilet-seats. No. 972,269; Oct. 11; Sp. p. 1654; Gaz. vol. 159; p. 290.

Sluka, Wilhelm J., Vienna, Austria-Hungary. Machine for transforming boiled sugar into a creamy paste. No. 976,511; Nov. 22; Sp. p. 5362; Gaz. vol. 160; p. 910.

Slustrop, Peter, Hebron, N. D. Combined stove-lid and pan lifter. No. 976,512; Nov. 22; Sp. p. 5363; Gaz. vol. 160; p. 910.

Small, William F. M., Rosewood, Ohio. Wire-fence fastener. No. 973,576; Oct. 25; Sp. p. 4533; Gaz. vol. 159; p. 792.

Small, Byron C., Morris, assignor to The B. C. Small Manufacturing Company, Coal City, Ill. Corn-husking machinery. No. 976,223; Nov. 22; Sp. p. 4709; Gaz. vol. 160; p. 810.

Small, Edward F., assignor of one-half to W. E. Ragan, Atlanta, Ga. Abdominal and pelvic supporter. No. 970,961; Sept. 20; Sp. p. 3879; Gaz. vol. 158; p. 663.

Small, Henry H., York, Pa. Suspenders. No. 963,083; July 5; Sp. p. 116; Gaz. vol. 156; p. 21.

Small, Henry H., York, Pa. Suspenders. No. 967,454; Aug. 16; Sp. p. 3457; Gaz. vol. 157; p. 596.

Small, Henry J., San Francisco, Cal. Journal-brass. No. 971,085; Sept. 27; Sp. p. 4154; Gaz. vol. 158; p. 733.

Small, Isadore. (See Walter, William L., assignor.)

Small, John W. (See Harter and Small.)

Small, Ralph D., assignor to Standard Electro-Utilities Company, Chicago, Ill. Ozonizer. No. 978,786; Dec. 13; Sp. p. 2953; Gaz. vol. 161; p. 499.

Small, Thomas W., assignor to The Acme Automatic Street Indicating Company, Cleveland, Ohio. Telephone attachment. No. 953,442; Mar. 29; Sp. p. 6165; Gaz. vol. 152; p. 1106.

Small, William E., Brooklyn, assignor of one-third to J. M. Cotter and one-third to James F. Kelly Company, New York, N. Y. Base-ball-game apparatus. No. 950,965; Mar. 1; Sp. p. 1054; Gaz. vol. 152; p. 169.

Smalley, Eva A. (See Smalley, William H., assignor.)

Smalley Manufacturing Company. (See Frick, Orlando C., assignor.)

Smalley, William H., assignor to E. A. Smalley, Yonkers, N. Y. Adjustable book-cover. No. 949,307; Feb. 15; Sp. p. 3197; Gaz. vol. 151; p. 563.

Smart, Edmund H., London, England. Daylight developing apparatus for photographic plates, films, and the like. No. 955,443; Apr. 19; Sp. p. 3770; Gaz. vol. 153; p. 662.

Smart, Harry G., St. Cloud, Minn. Tie-plug machine. No. 956,207; Apr. 26; Sp. p. 5467; Gaz. vol. 153; p. 957.

Smart, Walter J., assignor to Firm of S. Zinn, New York, N. Y. Cutting-blade for razors. No. 960,424; June 7; Sp. p. 376; Gaz. vol. 155; p. 63.

Smetana, Frank, Chicago, Ill. Cake-trimmer. No. 946,159; Jan. 11; Sp. p. 2526; Gaz. vol. 150; p. 422.

Smethport Glass Company. (See Douchamp, Henry, assignor.)

Smiddy, Jerome J. (See Hustace and Smiddy.)

Smidth & Co., F. L. (See Fasting, Johan S., assignor.)

Smiley, Arthur E., Springfield, Mass. Wrench. No. 979,805; Dec. 27; Sp. p. 5181; Gaz. vol. 161; p. 898.

Smiley, Franklin M., Goshen, Ind. Draft-equalizer. No. 946,405; Jan. 11; Sp. p. 3157; Gaz. vol. 150; p. 508.

Smiley, Herschel W., and R. M. Moore, assignors of one-half to Odon Realty Co., Odon, Ind. Cigar-vending machine. No. 950,081; Feb. 22; Sp. p. 4893; Gaz. vol. 151; p. 861.

Smiley, John F., Louisville, Ky. Electric switch. No. 966,252; Aug. 2; Sp. p. 877; Gaz. vol. 157; p. 139.

Smiley, Louis M., Yoder, Kans. Fastener. No. 966,959; Aug. 9; Sp. p. 2430; Gaz. vol. 157; p. 399.

Smiljanic, Mark, Cleveland, Ohio. Collapsible table or seat. No. 965,338; July 26; Sp. p. 5056; Gaz. vol. 156; p. 869.

Smith, A. I. (See Hawkins, John K., assignor.)

Smith, Abram E., Brooklyn, N. Y. Car structure. No. 956,740; May 3; Sp. p. 512; Gaz. vol. 154; p. 83.

Smith, Adam M., Minneapolis, Minn. Horse-power hoist. No. 959,630; May 31; Sp. p. 6927; Gaz. vol. 154; p. 1179.

Smith, Adolph J., Montreal, Quebec, Canada. Automatic ash-sifter. No. 960,591; June 7; Sp. p. 720; Gaz. vol. 155; p. 119.

Smith, Albert C. and S. W., Albion, Ill. Tire-protector and tread-grip. No. 968,706; Aug. 30; Sp. p. 6147; Gaz. vol. 157; p. 1073.

Smith, Albert E., Yorkton, Saskatchewan, Canada. Land-packer. No. 954,653; Apr. 12; Sp. p. 2058; Gaz. vol. 153; p. 362.

Smith, Albert E., assignor to The Vitagraph Company of America, New York, N. Y. Moving-picture machine. No. 971,155; Sept. 27; Sp. p. 4286; Gaz. vol. 158; p. 755.

Smith, Albert E., assignor of one-half to L. A. Young, Detroit, Mich. Front-fastening device for vehicle tops. No. 979,893; Dec. 27; Sp. p. 5365; Gaz. vol. 161; p. 927.

Smith, Albert F. and A. T., Longbeach, Cal., assignor to National Airship Spiralway Company. Inclined railway. No. 955,217; Apr. 19; Sp. p. 3285; Gaz. vol. 153; p. 587.

Smith, Albert H., West Smethwick, and R. Rigby, Birmingham, England. Lathe. No. 952,149; Mar. 15; Sp. p. 3410; Gaz. vol. 152; p. 614.

Smith, Albert J., deceased, Cardiff, England; M. E. Smith, administratrix. Means for lubricating axle-boxes and the like. No. 948,283; Feb. 1; Sp. p. 1029; Gaz. vol. 151; p. 169.

Smith, Albert R., and J. F. Ahle, Los Angeles, Cal. Etching-machine. No. 964,126; July 12; Sp. p. 2421; Gaz. vol. 156; p. 397.

Smith, Albert V., Portland, Oreg. Tail-stock for wood-turning lathes. No. 966,253; Aug. 2; Sp. p. 878; Gaz. vol. 157; p. 139.

Smith, Alexander F., Reading, Pa. Sash-fastener. No. 969,208; Sept. 6; Sp. p. 141; Gaz. vol. 158; p. 23.

Smith, Alexander J., Stamford, Conn. assignor to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 975,471; Nov. 15; Sp. p. 3108; Gaz. vol. 160; p. 531.

Smith, Alexander J., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 976,704; Nov. 22; Sp. p. 5759; Gaz. vol. 160; p. 975.

Smith, Alfred B., near Topeka, Kans. Tightening tires and spokes in fellies. No. 965,341; July 26; Sp. p. 5059; Gaz. vol. 156; p. 870.

Smith, Alfred E., Kelso, Wash., assignor of one-half to I. H. Howe, Beloit, Kans. Hobby-horse. No. 948,257; Feb. 1; Sp. p. 974; Gaz. vol. 151; p. 160.

Smith, Alfred M., Hagerstown, Md. Arch-support. No. 961,174; June 14; Sp. p. 1885; Gaz. vol. 155; p. 342.

Smith, Alice, assignor to W. H. Wheatley, Hampstead, London, England. Skirt-hanger. No. 949,665; Feb. 15; Sp. p. 3916; Gaz. vol. 151; p. 682.

Smith, Alice J., and H. W. Kent, Milwaukee, Wis., assignors to Kent Ore Reduction Company, Chicago, Ill. Amalgamator. No. 961,905; June 21; Sp. p. 3460; Gaz. vol. 155; p. 612.

Smith, Alphonso D., assignor of one-half to N. H. Myers, Kents Store, Va. Dissolving stereopticon. No. 970,962; Sept. 20; Sp. p. 3880; Gaz. vol. 158; p. 663.

Smith, Alveus C., St. Louis, Mo., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 948,065; Feb. 1; Sp. p. 603; Gaz. vol. 151; p. 97.

Smith, Alvin T. (See Smith, Albert F. and A. T.)

Smith, Ambrose M., *et al.* (See Gould, Fred L., assignor.)

Smith, Amour C. (See Larsson and Smith.)

Smith, Andrew J., Bloomington, Ill. Garment-hanger. No. 965,339; July 26; Sp. p. 5057; Gaz. vol. 156; p. 869.

Smith, Ansel P., Smithville South, N. Y. Adjustable lamp-bracket. No. 967,682; Aug. 16; Sp. p. 3917; Gaz. vol. 157; p. 672.

Smith, Anthony E., Camberwell, England. Apparatus for the automatic delivery of disinfectants to the flushing-water of water-closets, urinals, and the like. No. 969,729; Sept. 6; Sp. p. 1220; Gaz. vol. 158; p. 197.

Smith, Anthony J., assignor of one-third to W. J. Smith, New York, N. Y. Electric fuse. No. 961,175; June 14; Sp. p. 1886; Gaz. vol. 155; p. 342.

Smith, Anthony W., Jr., Pittsburg, Pa. Vase. No. 949,452; Feb. 15; Sp. p. 3507; Gaz. vol. 151; p. 612.

Smith, Anton C., assignor of one-third to T. J. Holland, Winnipeg, Manitoba, Canada. Grain-car door. No. 969,730; Sept. 6; Sp. p. 1221; Gaz. vol. 158; p. 198.

Smith, Arthur, deceased, Easton, Pa.; E. M. and J. E. Smith, executors. Horseshoe-machine. No. 948,470; Feb. 8; Sp. p. 1447; Gaz. vol. 151; p. 258.

Smith, Arthur C., Sunnyside, assignor of one-half to W. H. Wagner, Russell Springs, Kans. Vapor-burner. No. 953,978; Apr. 5; Sp. p. 579; Gaz. vol. 153; p. 104.

Smith, Arthur K., St. Louis, Mo. Mail-chute. No. 967,455; Aug. 16; Sp. p. 3459; Gaz. vol. 157; p. 596.

Smith, Arthur K., assignor to R. B. Galt and A. O. Woerner, trustees, St. Louis, Mo. Mail-chute. No. 961,813; June 21; Sp. p. 3258; Gaz. vol. 155; p. 582.

Smith, Arthur K., assignor to R. B. Galt and A. O. Woerner, trustees, St. Louis, Mo. Mail-chute. No. 973,080; Oct. 18; Sp. p. 3455; Gaz. vol. 159; p. 598.

Alphabetical list of patentees—Continued.

Smith, Arthur K., assignor to R. B. Galt and A. O. Woerner, trustees, St. Louis, Mo. Mail-chute. No. 973,081; Oct. 18; Sp. p. 3456; Gaz. vol. 159; p. 598.
Smith, Arthur L., assignor, by mesne assignments, to Concrete Appliances Company, St. Louis, Mo. Device for distributing concrete. No. 948,746; Feb. 8; Sp. p. 2048; Gaz. vol. 151; p. 350.
Smith, Arthur W., New York, N. Y., assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 958,778; May 24; Sp. p. 5130; Gaz. vol. 154; p. 866.
Smith, Arthur W., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 974,836; Nov. 8; Sp. p. 1700; Gaz. vol. 160; p. 286.
Smith, Arthur W., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 975.168; Nov. 8; Sp. p. 2471; Gaz. vol. 160; p. 400.
Smith, Arthur W., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 975,169; Nov. 8; Sp. p. 2476; Gaz. vol. 160; p. 401.
Smith, Arthur W., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 975,170; Nov. 8; Sp. p. 2480; Gaz. vol. 160; p. 401.
Smith, Arthur W., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 977,480; Dec. 6; Sp. p. 116; Gaz. vol. 161; p. 20.
Smith, Ashley C., Chicago, Ill. Carrying apparatus. No. 945,625; Jan. 4; Sp. p. 1327; Gaz. vol. 150; p. 206.
Smith, Ashley C., deceased; F. S. Smith, C. Smith, and B. Knowles, executors, assignors to Smith Manufacturing Company, Chicago, Ill. Tripping device for elevated carriers. No. 967,846; Aug. 16; Sp. p. 4255; Gaz. vol. 157; p. 728.
Smith, Augustus, North Plainfield, N. J., assignor to Bergen Point Iron Works, New York, N. Y. Means for filling buckets, &c., from hoppers. No. 969,988; Sept. 13; Sp. p. 1828; Gaz. vol. 158; p. 311.
Smith, Augustus, North Plainfield, N. J., assignor to Bergen Point Iron Works, New York, N. Y. Pulley-block. No. 969,989; Sept. 13; Sp. p. 1830; Gaz. vol. 158; p. 311.
Smith, Benjamin, Utica, N. Y. Fire-escape. No. 969,209; Sept. 6; Sp. p. 142; Gaz. vol. 158; p. 23.
Smith, Benjamin J., *et al.* (See Rollins, Frank O., assignor.)
Smith, Benjamin W., Lacrosse, Va. Cooking-range. No. 949,203; Feb. 15; Sp. p. 2982; Gaz. vol. 151; p. 528.
Smith, Benjamin W., assignor of one-half to T. C. Neal, Montpelier, Ind. Rail-tie fastening. No. 961,078; June 7; Sp. p. 1699; Gaz. vol. 155; p. 282.
Smith, Bernard O., assignor of one-half to S. C. Irvine, Stanley, Iowa. Carbureter. No. 978,787; Dec. 13; Sp. p. 2955; Gaz. vol. 161; p. 499.
Smith, Bernard O., assignor of one-half to S. C. Irvine, Stanley, Iowa. Igniter for gasolene-engines. No. 978,788; Dec. 13; Sp. p. 2957; Gaz. vol. 161; p. 500.
Smith, Bertrum F., assignor of one-half to J. Markle, Natrona, Pa. Trolley-wheel. No. 947,165; Jan. 18; Sp. p. 4759; Gaz. vol. 150; p. 784.
Smith, Blake, and G. Shivadecker, Verona, Ohio. Extension car-step. No. 973,714; Oct. 25; Sp. p. 4840; Gaz. vol. 159; p. 841.
Smith, Calvin H., Bessemer, Ala. Burglar-alarm. No. 970,565; Sept. 20; Sp. p. 3034; Gaz. vol. 158; p. 528.
Smith Cannery Machines Company. (See Smith, Edmund A., assignor.)
Smith, Carl G., Stockholm, Sweden. Machine for spiking rails to ties. No. 976,513; Nov. 22; Sp. p. 5365; Gaz. vol. 160; p. 910.
Smith, Cassius M., Los Angeles, Cal. Pump. No. 974,837; Nov. 8; Sp. p. 1704; Gaz. vol. 160; p. 287.
Smith, Charles. (See Thomas, Charles W., assignor.)
Smith, Charles A., Brattleboro, Vt. Automobile-starter. No. 951,707; Mar. 8; Sp. p. 2505; Gaz. vol. 152; p. 435.
Smith, Charles A., Philadelphia, Pa., assignor to Blaisdell Paper Pencil Company. Pencil. No. 966,712; Aug. 9; Sp. p. 1862; Gaz. vol. 157; p. 318.
Smith, Charles B., Dunedin, New Zealand. Flexible binding device. No. 950,354; Feb. 22; Sp. p. 5443; Gaz. vol. 151; p. 954.
Smith, Charles B., Dunedin, New Zealand. Numbering-machine. No. 961,035; June 7; Sp. p. 1596; Gaz. vol. 155; p. 268.
Smith, Charles B., Crafton, Pa. Lace-fastener. No. 966,960; Aug. 9; Sp. p. 2432; Gaz. vol. 157; p. 399.
Smith, Charles D., Dayton, Ohio. Molding-flask. No. 948,528; Feb. 8; Sp. p. 1575; Gaz. vol. 151; p. 278.
Smith, Charles D., Paris, Ill. Door-latch. No. 949,405; Feb. 15; Sp. p. 3430; Gaz. vol. 151; p. 599.
Smith, Charles D., Paris, Ill. Safety-hook. No. 979,347; Dec. 20; Sp. p. 4170; Gaz. vol. 161; p. 719.
Smith, Charles E., Oaklawn, R. I. Means for booking metallic leaf. No. 949,850; Feb. 22; Sp. p. 4330; Gaz. vol. 151; p. 780.
Smith, Charles E., Oak Lawn, R. I. Machine for packaging metallic leaf in rolls. No. 975,472; Nov. 15; Sp. p. 3110; Gaz. vol. 160; p. 531.
Smith, Charles E., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 954,894; Apr. 12; Sp. p. 2628; Gaz. vol. 153; p. 447.
Smith, Charles E., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 965,957; Aug. 2; Sp. p. 217; Gaz. vol. 157; p. 38.
Smith, Charles E., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 972,935; Oct. 18; Sp. p. 3148; Gaz. vol. 159; p. 550.
Smith, Charles E., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 979,215; Dec. 20; Sp. p. 3908; Gaz. vol. 161; p. 676.
Smith, Charles E., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 979,216; Dec. 20; Sp. p. 3914; Gaz. vol. 161; p. 676.
Smith, Charles F. (See Harbaugh and Smith.)
Smith, Charles F., Miami, Fla. Exhaust-muffler. No. 979,041; Dec. 20; Sp. p. 3507; Gaz. vol. 161; p. 614.
Smith, Charles F., assignor to Landers, Frary and Clark, New Britain, Conn. Safety-razor. No. 957,008; May 3; Sp. p. 1106; Gaz. vol. 154; p. 173.
Smith, Charles F., assignor to Landers, Frary and Clark, New Britain, Conn. Safety-razor. No. 968,428; Aug. 23; Sp. p. 5509; Gaz. vol. 157; p. 950.
Smith, Charles F., Bridgeport, Conn., assignor to McCallum Hosiery Company, Northampton, Mass. Tag-setting machine. No. 979,217; Dec. 20; Sp. p. 3920; Gaz. vol. 161; p. 677.
Smith, Charles G., Somerville, Mass. Strainer for driven wells. No. 971,156; Sept. 27; Sp. p. 4289; Gaz. vol. 158; p. 755.
Smith, Charles G., Aspinwall, Pa. Grinding-machine. No. 971,697; Oct. 4; Sp. p. 388; Gaz. vol. 159; p. 68.
Smith, Charles H., Marseilles, Ill. Couch-roll for paper-making machines. No. 954,055; Apr. 5; Sp. p. 743; Gaz. vol. 153; p. 130.
Smith, Charles P. (See Underwood and Smith.)
Smith, Charles S., and H. H. Palmer, New York, N. Y. Globe-holder. No. 977,563; Dec. 6; Sp. p. 343; Gaz. vol. 161; p. 50.
Smith, Christian N., Elgin, Ill., assignor, by mesne assignments, of two-thirds to C. A. Armbruster and J. A. Haben. Rotary web-press. No. 974,607; Nov. 1; Sp. p. 1203; Gaz. vol. 160; p. 185.
Smith, Cicero G. (See Van Buren, Thomas H., assignor.)
Smith, Clarence E., assignor to The North and Judd Manufacturing Company, New Britain, Conn. Belt-clasp. No. 953,927; Apr. 5; Sp. p. 484; Gaz. vol. 153; p. 88.
Smith, Clarence E., assignor to The North and Judd Manufacturing Company, New Britain, Conn. Brooch. No. 969,666; Sept. 6; Sp. p. 1091; Gaz. vol. 158; p. 175.
Smith, Claude A., Detroit, Mich. Universal joint. No. 972,270; Oct. 11; Sp. p. 1656; Gaz. vol. 159; p. 291.
Smith, Claude W. (See Smith, Selvin C., assignor.)
Smith, Clayton A. (See Getley, William, assignor.)
Smith-Condit Arms Company. (See Smith, Morris F., assignor.)
Smith, Cora, *et al.*, executors. (See Smith, Ashley C.)
Smith, Coral L., Cortland, N. Y. Inkstand. No. 964,572; July 19; Sp. p. 3381; Gaz. vol. 156; p. 577.
Smith, Covert R., Freeport, Ohio. Washing-machine. No. 947,134; Jan. 18; Sp. p. 4691; Gaz. vol. 150; p. 775.
Smith, Covert R., Freeport, Ohio. Match-striking cabinet. No. 976,612; Nov. 22; Sp. p. 5586; Gaz. vol. 160; p. 945.
Smith, Crawford & Sonfield and Mackey. (See Hardie, Jeffie, assignor.)
Smith, Curtis M., Washington, D. C., assignor to American Securities Company. Refrigerator-wagon body. No. 973,082; Oct. 18; Sp. p. 3458; Gaz. vol. 159; p. 599.
Smith, Cuthbert C., Twickenham, England. Speed-indicator for motor-cars and other vehicles. No. 969,990; Sept. 13; Sp. p. 1831; Gaz. vol. 158; p. 311.
Smith, Daniel, Griffin Corners, N. Y. Swimming appliance. No. 973,224; Oct. 18; Sp. p. 3796; Gaz. vol. 159; p. 649.
Smith, Daniel and F. W., Christchurch, New Zealand. Galosh, gum boot, and other rubber footwear. No. 947,859; Feb. 1; Sp. p. 171; Gaz. vol. 151; p. 29.
Smith, Daniel W., Chicago, Ill., assignor to International Harvester Company. Grain-harvester. No. 958,331; May 17; Sp. p. 4232; Gaz. vol. 154; p. 690.
Smith, Datus C., Jackson, Mich. Barbed-wire machine. No. 972,657; Oct. 11; Sp. p. 2499; Gaz. vol. 159; p. 426.
Smith, David C. (See Stephens, Davidson, and Smith.)
Smith, David E., Mount Vernon, N. Y. Puzzle. No. 956,441; Apr. 26; Sp. p. 5968; Gaz. vol. 153; p. 1036.
Smith, David O., Bluff City, Tenn. Egg-crate. No. 965,042; July 19; Sp. p. 4435; Gaz. vol. 156; p. 738.
Smith, De Wane B., Deerfield, N. Y. Nursing bottle and nipple. No. 956,741; May 3; Sp. p. 514; Gaz. vol. 154; p. 83.
Smith, De Wane B., Deerfield, N. Y. Muffler for explosive-engines. No. 963,822; July 12; Sp. p. 1774; Gaz. vol. 156; p. 294.
Smith, Denton C. (See Horne and Smith.)
Smith, Doc H., Moundridge, Kans. Sawing-machine. No. 951,920; Mar. 15; Sp. p. 2983; Gaz. vol. 152; p. 540.
Smith, Donald H., near Curlewis, New South Wales, Australia. Reversible multifurrow disk plow. No. 971,157; Sept. 27; Sp. p. 4290; Gaz. vol. 158; p. 755.

Alphabetical list of patentees—Continued.

Smith, Douglas F. (See Castle, Lewis D., assignor.)
Smith, Durwald C., *et al.* (See Goodman, Nathan J., assignor.)
Smith, Earle R., assignor to Triumph Flat Iron Company, Los Angeles, Cal. Laundry-iron. No. 969,991; Sept. 13; Sp. p. 1832; Gaz. vol. 158; p. 312.
Smith, Edger E., Battle Creek, Mich. Feather brush. No. 954,354; Apr. 5; Sp. p. 1397; Gaz. vol. 153; p. 232.
Smith, Edmund A., assignor to Smith Cannery Machines Company, Seattle, Wash. Fish-dressing machine. No. 979,103; Dec. 20; Sp. p. 3653; Gaz. vol. 161; p. 635.
Smith, Edson A., Waterloo, Iowa. Fence-tie. No. 953,400; Mar. 29; Sp. p. 6080; Gaz. vol. 152; p. 1092.
Smith, Edward, Bradford, England. Shuttleless loom for weaving. No. 948,945; Feb. 8; Sp. p. 2442; Gaz. vol. 151; p. 416.
Smith, Edward F., Rochester, N. Y. Abrading-surface. No. 973,986; Oct. 25; Sp. p. 5390; Gaz. vol. 159; p. 936.
Smith, Edward F., Rochester, N. Y. Vegetable-slicer. No. 976,613; Nov. 22; Sp. p. 5588; Gaz. vol. 160; p. 945.
Smith, Edward F., assignor to The Greenfield Machine Company, Greenfield, Mass. Grinding-machine. No. 956,208; Apr. 26; Sp. p. 5469; Gaz. vol. 153; p. 957.
Smith, Edward H., Aberdeen, assignor of one-half to T. Evenson, Seattle, Wash. Regulating incandescent-lamp socket for reducing the light. No. 957,806; May 10; Sp. p. 2768; Gaz. vol. 154; p. 474.
Smith, Edward M. (See Smith, James K. and E. M.)
Smith, Edward W., Philadelphia, assignor of one-third to E. G. Steinmetz, Jenkintown, Pa. Toy aeroplane. No. 962,172; June 21; Sp. p. 4063; Gaz. vol. 155; p. 705.
Smith, Edwin C. (See Wallenthin and Smith.)
Smith, Edwin K. (See Foote and Smith.)
Smith & Egge Manufacturing Co., The. (See Egge, Frederick, assignor.)
Smith & Egge Manufacturing Co., The. (See Trull, William E., assignor.)
Smith, Elbert C. (See Murphy, James, assignor.)
Smith, Elias, Skinners Eddy Pa. Jar-holder. No. 951,203; Mar. 8; Sp. p. 1492; Gaz. vol. 152; p. 270.
Smith, Elias, Skinners Eddy, Pa. Jar-cap wrench. No. 951,204; Mar. 8; Sp. p. 1494; Gaz. vol. 152; p. 270.
Smith, Elias A. C., Baltimore, Md. Copper-matte converter. (Reissue.) No. 13,080; Jan. 25; Sp. p. 6137; Gaz. vol. 150; p. 1023.
Smith, Elizabeth M., *et al.*, executors. (See Smith, Arthur.)
Smith, Ellis F., Freeport, Ill. Collapsible core. No. 950,827; Mar. 1; Sp. p. 789; Gaz. vol. 152; p. 125.
Smith, Elmer F., Marion, Mass. Turn-table. No. 970,857; Sept. 20; Sp. p. 3690; Gaz. vol. 158; p. 630.
Smith, Elmer F., Marion, Mass. Controlling device for sliding doors. No. 972,271; Oct. 11; Sp. p. 1657; Gaz. vol. 159; p. 291.
Smith, Emerson M. (See Zorn, John B., assignor.)
Smith, Ernest C., Canton, Ill. Fertilizer-distributer. (Reissue.) No. 13,071; Jan. 4; Sp. p. 1597; Gaz. vol. 150; p. 247.
Smith, Ernest C., Canton, Ill. Clutch. (Reissue.) No. 13,072; Jan. 4; Sp. p. 1602; Gaz. vol. 150; p. 248.
Smith, Ernest C., Canton, Ill. Hay-rake. No. 946,883; Jan. 18; Sp. p. 4217; Gaz. vol. 150; p. 694.
Smith Ernest C., and W. A. Crumpacker, Centerview, Mo. Compressed-air water-elevator. No. 976,004; Nov. 15; Sp. p. 4207; Gaz. vol. 160; p. 712.
Smith, Ernest D., Lockhart, Tex. Baling-press. No. 948,529; Feb. 8; Sp. p. 1577; Gaz. vol. 151; p. 278.
Smith, Ernest L., Bradford, Pa., assignor to The Clark Sales Company, Buffalo, N. Y. Tooth-brush holder. No. 973,311; Oct. 18; Sp. p. 3964; Gaz. vol. 159; p. 678.
Smith, Eugene C., New York, N. Y., assignor, by mesne assignments, to Victor Talking Machine Company. Sound-box. No. 951,292; Mar. 8; Sp. p. 1678; Gaz. vol. 152; p. 297.
Smith, Ezekiel A. (See Mackintosh and Smith.)
Smith, Ezra H. (See Little and Smith.)
Smith, Fairfield. (See Spencer, George S., assignor.)
Smith, Frank F., Newark, N. J. Transom-adjusting device. No. 970,656; Sept. 20; Sp. p. 3247; Gaz. vol. 158; p. 559.
Smith, Frank F., Newark, N. J. Lock for windows and the like. No. 979,581; Dec. 27; Sp. p. 4679; Gaz. vol. 161; p. 821.
Smith, Frank F., Newark, N. J. Lock for metal window-sashes. No. 979,582; Dec. 27; Sp. p. 4681; Gaz. vol. 161; p. 822.
Smith, Frank J., Highland, Ind. Door-lock. No. 973,225; Oct. 18; Sp. p. 3798; Gaz. vol. 159; p. 650.
Smith, Frank L., Chicago, Ill., and T. B. Williams, assignors to The Leavitt Machine Company, Orange, Mass. Valve-disk-cutting machine. No. 980,019; Dec. 27; Sp. p. 5608; Gaz. vol. 161; p. 969.
Smith, Frank S., *et al.*, executors. (See Smith, Ashley C.)
Smith, Frank W., *et al.* (See Swallow, Joseph G., assignor.)
Smith, Frank W., Kansas City, Mo. Coin device for vending-machines. No. 947,087; Jan. 18; Sp. p. 4612; Gaz. vol. 150; p. 761.
Smith, Frank W., New York, N. Y. Electric switch. No. 951,851; Mar. 15; Sp. p. 2829; Gaz. vol. 152; p. 516.
Smith, Frank W., Portland, Me. Slitter for corn-cutters. No. 969,210; Sept. 6; Sp. p. 146; Gaz. vol. 158; p. 23.
Smith, Frank W., New York, N. Y., assignor to Sundh Electric Company. Electric switch. No. 970,963; Sept. 20; Sp. p. 3883; Gaz. vol. 158; p. 663.
Smith, Frank W., Westfield, N. J., and L. Larsen, New York, N. Y., assignors to Sundh Electric Company. Electric controller. No. 951,852; Mar. 15; Sp. p. 2831; Gaz. vol. 152; p. 516.
Smith, Franklin P. (See McClure, Edward, assignor.)
Smith, Fred N. (See Briggs, Joseph W., assignor.)
Smith, Fred P., Kansas City, Kans., assignor of one-half to Lewis & Kitchen, Kansas City, Mo. Dry closet. No. 949,917; Feb. 22; Sp. p. 4510; Gaz. vol. 151; p. 805.
Smith, Fred P., Chicago, assignor of one-half to E. C. Lewis, Chicago, Ill., and J. H. Kitchen, Kansas City, Mo. Garbage crematory or incinerator. No. 950,192; Feb. 22; Sp. p. 5125; Gaz. vol. 151; p. 900.
Smith, Fred R. (See Turner, Albert O., assignor.)
Smith, Frederick L., Chicopee Falls, Mass. Telescope-sight. No. 964,703; July 19; Sp. p. 3749; Gaz. vol. 156; p. 623.
Smith, Frederick L., Chicopee Falls, Mass. Telescope-sight for firearms. No. 966,254; Aug. 2; Sp. p. 879; Gaz. vol. 157; p. 140.
Smith, Frederick W. (See Smith, Daniel and F. W.)
Smith, Frederick W., and W. J. Stilling, assignors to Hecla Iron Works, Brooklyn, N. Y. Book-stack. No. 947,583; Jan. 25; Sp. p. 5757; Gaz. vol. 150; p. 957.
Smith, Fredrick H., assignor of one-half to C. R. Widby, Pittsburg, Kans. Cross-head. No. 972,133; Oct. 4; Sp. p. 1337; Gaz. vol. 159; p. 225.
Smith, Fredrick W., Minneapolis, Minn. Tobacco-pipe. No. 951,030; Mar. 1; Sp. p. 1157; Gaz. vol. 152; p. 189.
Smith, Friend W., Jr., assignor to C. C. Payne, Bridgeport, Conn. Dust-collector for vacuum-cleaners. No. 971,013; Sept. 20; Sp. p. 3973; Gaz. vol. 158; p. 680.
Smith, G. H., *et al.* (See Gardner, William R., assignor.)
Smith, Gary B., Minneapolis, Minn. Bed-spring. No. 979,042; Dec. 20; Sp. p. 3508; Gaz. vol. 161; p. 614.
Smith, George. (See Mansell and Smith.)
Smith, George, Duluth, Minn. Sandpapering-machine. No. 963,481; July 5; Sp. p. 1036; Gaz. vol. 156; p. 157.
Smith, George, Jr., Thorndike, Mass. Hat-hanger. No. 960,592; June 7; Sp. p. 721; Gaz. vol. 155; p. 119.
Smith, George A., *et al.* (See Newcomb, David L., assignor.)
Smith, George A., New York, assignor of sixteen one-hundred-and-fourths to J. W. Hennessey, Richmond, N. Y.; forty-six one-hundred-and-fourths to A. Letts, Los Angeles, Cal., and twenty-one one-hundred-and-fourths to F. H. Ward, Brooklyn, N. Y. Back-spacing device for type-writers. No. 961,546; June 14; Sp. p. 2708; Gaz. vol. 155; p. 470.
Smith, George A., New York, assignor of sixteen one-hundred-and-fourths to J. W. Hennessey, Richmond, N. Y.; forty-six one-hundred-and-fourths to A. Letts, Los Angeles, Cal., and twenty-one one-hundred-and-fourths to F. H. Ward, Brooklyn, N. Y. Marginal-stop device for type-writers. No. 961,547; June 14; Sp. p. 2709; Gaz. vol. 155; p. 470.
Smith, George A., assignor of sixteen one-hundred-and-fourths to J. W. Hennessey, New York, N. Y.; forty-six one-hundred-and-fourths to A. Letts, Los Angeles, Cal., and twenty-one one-hundred-and-fourths to F. H. Ward, Brooklyn, N. Y. Ribbon-movement for type-writers. No. 979,583; Dec. 27; Sp. p. 4683; Gaz. vol. 161; p. 822.
Smith, George C. (See Haudenschild, Harry, assignor.)
Smith, George C., and O. A. Kraft, Buffalo, N. Y. Belt-shifter. No. 964,127; July 12; Sp. p. 2424; Gaz. vol. 156; p. 397.
Smith, George E., Los Angeles, assignor of one-half to G. Hess, Coalinga, Cal. Pitman. No. 973,715; Oct. 25; Sp. p. 4841; Gaz. vol. 159; p. 841.
Smith, George H. (See McDonald, Patrick J., assignor.)
Smith, George H., assignor to Beaman & Smith Company, Providence, R. I. Boring-machine. No. 959,083; May 24; Sp. p. 5796; Gaz. vol. 154; p. 971.
Smith, George H., assignor to P. S. Dyer, Easton, Pa. Asbestos-faced woven fabric. No. 963,013; June 28; Sp. p. 5807; Gaz. vol. 155; p. 1017.
Smith, George H., assignor to P. S. Dyer, Easton, Pa. Textile fabric. No. 963,014; June 28; Sp. p. 5808; Gaz. vol. 155; p. 1017.
Smith, George H., Nutley, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 973,083; Oct. 18; Sp. p. 3458; Gaz. vol. 159; p. 599.
Smith, George H., Nutley, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 973,226; Oct. 18; Sp. p. 3799; Gaz. vol. 159; p. 650.
Smith, George N., Akron, Ohio. Baking-iron. No. 977,141; Nov. 29; Sp. p. 6780; Gaz. vol. 160; p. 1152.
Smith, George R. (See Wood, George F., assignor.)
Smith, George R., Arlington, Md. Window-tent. No. 964,455; July 12; Sp. p. 3068; Gaz. vol. 156; p. 504.
Smith, George W., Pleasantville, N. J. Antisiphon-trap. No. 945,423; Jan. 4; Sp. p. 905; Gaz. vol. 150; p. 141.
Smith, George W., Henry, Mo. Explosive-engine. No. 951,747; Mar. 8; Sp. p. 2300; Gaz. vol. 152; p. 449.

Alphabetical list of patentees—Continued.

Smith, George W., Cohoes, N. Y., assignor, by mesne assignments, to The Beattie Manufacturing Company of Cohoes. Folding-machine. No. 972,272; Oct. 11; Sp. p. 1658; Gaz. vol. 159; p. 292.
Smith, George W., assignor to Marine Salvage Company, Milwaukee, Wis. Diving apparatus. No. 975,727; Nov. 15; Sp. p. 3657; Gaz. vol. 160; p. 616.
Smith, George W. M., and F. F. Braun, Cape Girardeau, Mo. Rest-gage for cutters. No. 951,972; Mar. 15; Sp. p. 3075; Gaz. vol. 152; p. 552.
Smith, George Z., Salt Lake City, Utah. Igniter for gas or other internal-combustion engines. No. 971,413; Sept. 27; Sp. p. 4795; Gaz. vol. 158; p. 839.
Smith, Giles H. (See Smith, Taylor J., assignor.)
Smith, Goodwin B., Philadelphia, Pa. Cake-beater. No. 759,811; May 31; Sp. p. 7315; Gaz. vol. 154; p. 1239.
Smith, Grant W., Chattanooga, Tenn. Rock-drill. No. 954,706; Apr. 12; Sp. p. 2170; Gaz. vol. 153; p. 379.
Smith, Greene A., Indianapolis, Ind. Combination gas and oil burner. No. 977,231; Nov. 29; Sp. p. 6962; Gaz. vol. 160; p. 1183.
Smith, Grover C., La Crosse, Kans. Expansion-bolt. No. 977,232; Nov. 29; Sp. p. 6964; Gaz. vol. 160; p. 1184.
Smith, Hampton K., Union, S. C. Liquid-ejecting apparatus. No. 950,410; Feb. 22; Sp. p. 5547; Gaz. vol. 151; p. 972.
Smith, Hampton K., Union, S. C. Liquid-dispensing apparatus. No. 950,411; Feb. 22; Sp. p. 5551; Gaz. vol. 151; p. 972.
Smith, Harry C., Ainsworth, Nebr. Adjustable rim and tire. No. 969,416; Sept. 6; Sp. p. 565; Gaz. vol. 158; p. 91.
Smith, Harry J., Lakewood, Ohio, assignor to The Hill Clutch Company. Friction-clutch. No. 975,578; Nov. 15; Sp. p. 3348; Gaz. vol. 160; p. 568.
Smith, Harry M., and D. Keneven, Denver, Colo. Flushing device. No. 958,841; May 24; Sp. p. 5281; Gaz. vol. 154; p. 890.
Smith, Harry S., Caledonia, Tobago, British West Indies. Manufacture of india-rubber and apparatus therefor. No. 972,030; Oct. 4; Sp. p. 1143; Gaz. vol. 159; p. 191.
Smith, Harvey H. (See Johnson and Smith.)
Smith, Hazor J., assignor to Automatic Letter Machine Company, Chicago, Ill. Printing-type No. 959,968; May 31; Sp. p. 7680; Gaz. vol. 154; p. 1294.
Smith, Hazor J., assignor to Automatic Letter Machine Company, Chicago, Ill. Printing-form. No. 967,582; Aug. 16; Sp. p. 3730; Gaz. vol. 157; p. 641.
Smith, Hazor J., assignor to Automatic Letter Machine Company, Chicago, Ill. Printing-press. No. 975,730; Nov. 15; Sp. p. 3664; Gaz. vol. 160; p. 618.
Smith & Hemenway Company. (See Kuhl, Burchard, assignor.)
Smith, Henry, Chicago, Ill. Awning. No. 945,055; Jan. 4; Sp. p. 99; Gaz. vol. 150; p. 18.
Smith, Henry, Brooklyn, N. Y. Boiler-flue scraper. No. 945,732; Jan. 4; Sp. p. 1578; Gaz. vol. 150; p. 242.
Smith, Henry A., Danbury, Conn. Violin-supporter. No. 950,873; Mar. 1; Sp. p. 868; Gaz. vol. 152; p. 139.
Smith, Henry A., Elgin, assignor to Star Manufacturing Company, Carpentersville, Ill. Rake-tooth point. No. 962,060; June 21; Sp. p. 3791; Gaz. vol. 155; p. 665.
Smith, Henry D., Brownsboro, Tex. Wrench. No. 979,348; Dec. 20; Sp. p. 4171; Gaz. vol. 161; p. 719.
Smith, Henry H., Houston, Tex. Bolt-jack. No. 953,106; Mar. 29; Sp. p. 5444; Gaz. vol. 152; p. 995.
Smith, Henry J., New York, N. Y. Transfer-ticket. No. 978,407; Dec. 13; Sp. p. 2141; Gaz. vol. 161; p. 373.
Smith, Henry L., Schenectady, N. Y., assignor to General Electric Company. Oil-switch. No. 947,860; Feb. 1; Sp. p. 172; Gaz. vol. 151; p. 29.
Smith, Henry L., Pittsfield, Mass., assignor, by mesne assignments, to General Electric Company. Hanger-board switch. No. 959,891; May 31; Sp. p. 7496; Gaz. vol. 154; p. 1266.
Smith, Henry T., De Leon, Tex. Side harrow for cultivators. No. 974,098; Oct. 25; Sp. p. 5615; Gaz. vol. 159; p. 973.
Smith, Henry W., Canton, Ohio. Vehicle-spring. No. 959,892; May 31; Sp. p. 7499; Gaz. vol. 154; p. 1267.
Smith, Herbert L., Los Angeles, Cal. Reinforced-concrete sectional sea-wall. No. 952,645; Mar. 22; Sp. p. 4453; Gaz. vol. 152; p. 811.
Smith, Herbert M., Pittsfield, Mass., assignor to General Electric Company. Electric heating unit. No. 962,793; June 28; Sp. p. 5402; Gaz. vol. 155; p. 943.
Smith, Horace A., New York, N. Y. Dumb-waiter and elevator. No. 950,828; Mar. 1; Sp. p. 789; Gaz. vol. 152; p. 126.
Smith, Hugh G. (See Smith, John G., assignor.)
Smith, Irving B., assignor to Electrelle Company, Philadelphia, Pa. Music-roll holder for mechanically-operated pianos. No. 945,056; Jan. 4; Sp. p. 100; Gaz. vol. 150; p. 18.
Smith, Irving B., assignor, by mesne assignments, to Electrelle Company, Philadelphia, Pa. Electrical self-playing attachment for pianos. No. 959,032; May 24; Sp. p. 5673; Gaz. vol. 154; p. 954.
Smith, Isaac E. (See Brossmann, Charles, assignor.)
Smith, J. Frank, *et al.* (See O'Connell, James, assignor.)
Smith, J. S. (See Allbee, John B., assignor.)
Smith, Jacob H. (See Landis and Smith.)
Smith, James. (See Kerr and Smith.)
Smith, James E., Ellinwood, Kans. Window-pane fastener. No. 953,866; Apr. 5; Sp. p. 368; Gaz. vol. 153; p. 66.
Smith, James E., New York, N. Y. Making cigar-bunches. No. 969,992; Sept. 13; Sp. p. 1834; Gaz. vol. 158; p. 312.
Smith, James E., Urbana, Ill. Protractor. No. 977,048; Nov. 29; Sp. p. 6564; Gaz. vol. 160; p. 1120.
Smith, James K. and E. M., Spencer, Ind. Digger. No. 969,569; Sept. 6; Sp. p. 894; Gaz. vol. 158; p. 142.
Smith, James L., Taunton, Mass. Car-fender. No. 952,846; Mar. 22; Sp. p. 4891; Gaz. vol. 152; p. 880.
Smith, James L., Alvord, Tex. Cut-out. No. 953,558; Mar. 29; Sp. p. 6406; Gaz. vol. 152; p. 1148.
Smith, James M. (See Carvin, Edward O., assignor.)
Smith, James M., assignor of one-half to W. D. C. Wright, Philadelphia, Pa. Current distributer and timer. No. 950,706; Mar. 1; Sp. p. 527; Gaz. vol. 152; p. 83.
Smith, James M., assignor of one-half to W. D. C. Wright, Philadelphia, Pa. Current distributer and timer. No. 969,731; Sept. 6; Sp. p. 1223; Gaz. vol. 158; p. 198.
Smith, James O., Daleville, assignor of one-half to J. L. Harbour, De Kalb, Miss. Running-gear for vehicles. No. 972,658; Oct. 11; Sp. p. 2509; Gaz. vol. 159; p. 426.
Smith, James T., Newark, N. J. Manufacturing leather. No. 967,986; Aug. 23; Sp. p. 4551; Gaz. vol. 157; p. 799.
Smith, James T., Newark, N. J. Manufacturing leather. No. 969,570; Sept. 6; Sp. p. 898; Gaz. vol. 158; p. 142.
Smith, Jasper M. (See Brown, Charles, assignor.)
Smith, Jay C., assignor to American Sign Company, Kalamazoo, Mich. Sign. No. 962,724; June 28; Sp. p. 5259; Gaz. vol. 155; p. 918.
Smith, Jay C., Marion, Ind., assignor to American Sign Company, Kalamazoo, Mich. Sign. No. 965,544; July 26; Sp. p. 5522; Gaz. vol. 156; p. 940.
Smith, Jerome, assignor to Arkon Carbon Co., Chicago, Ill. Rubber compound. No. 952,150; Mar. 15; Sp. p. 3411; Gaz. vol. 152; p. 614.
Smith, Jesse, Ivoryton, Conn. Overshoe. No. 948,797; Feb. 8; Sp. p. 2160; Gaz. vol. 151; p. 368.
Smith, Jesse, Hillyard, Wash. Generator. No. 968,429; Aug. 23; Sp. p. 5512; Gaz. vol. 157; p. 950.
Smith, Jesse C., Kansas City, Mo. Automatic cut-off valve. No. 969,911; Sept. 13; Sp. p. 1656; Gaz. vol. 158; p. 286.
Smith, Jesse R., Benton, Ill. Tie-puller. No. 977,975; Dec. 6; Sp. p. 1202; Gaz. vol. 161; p. 192.
Smith, Jesse T. (See Preston, Lyman L., assignor.)
Smith, John, Paterson, N. J. Tension device for take-up rolls of looms. No. 955,609; Apr. 19; Sp. p. 4138; Gaz. vol. 153; p. 720.
Smith, John, Bingham Canyon, Utah. Rocking-chair. No. 956,547; May 3; Sp. p. 88; Gaz. vol. 154; p. 16.
Smith, John, New York, N. Y. Metal-joiner. No. 968,994; Aug. 30; Sp. p. 6713; Gaz. vol. 157; p. 1169.
Smith, John A., Cleveland, Ohio, assignor to Elliott-Fisher Company, New York, N. Y. Guiding and guarding means for adding-machines. No. 963,951; July 12; Sp. p. 2044; Gaz. vol. 156; p. 335.
Smith, John A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Dogging mechanism for adding-machines. No. 963,952; July 12; Sp. p. 2049; Gaz. vol. 156; p. 336.
Smith, John C., Washington, Mo. Toy. No. 972,724; Oct. 11; Sp. p. 2644; Gaz. vol. 159; p. 449.
Smith, John E., *et al.*, executors. (See Smith, Arthur.)
Smith, John F., Little Rock, Ark. Sprinkling device. No. 961,906; June 21; Sp. p. 3464; Gaz. vol. 155; p. 613.
Smith, John G., assignor of one-half to H. G. Smith, Tyrconnell, W. Va. Automatic car-stake. No. 978,124; Dec. 6; Sp. p. 1512; Gaz. vol. 161; p. 243.
Smith, John H., Greenfield, assignor to Indiana Concrete Burial Vault Company, Indianapolis, Ind. Mold. No. 966,961; Aug. 9; Sp. p. 2433; Gaz. vol. 157; p. 400.
Smith, John J. C., Passaic, N. J. Artificial leather. No. 948,383; Feb. 8; Sp. p. 1275; Gaz. vol. 151; p. 229.
Smith, John J. C., Passaic, N. J. Composition for molds. No. 950,355; Feb. 22; Sp. p. 5443; Gaz. vol. 151; p. 954.
Smith, John J. C., Passaic, assignor to P. M. Hammalian, Hackensack, N. J. Apparatus for making stereotypes. No. 965,241; July 26; Sp. p. 4824; Gaz. vol. 156; p. 835.
Smith, John J. C., Passaic, assignor to P. M. Hammalian, Hackensack, N. J. Making molds for stereotypes. No. 965,242; July 26; Sp. p. 4829; Gaz. vol. 156; p. 835.
Smith, John N., Liberty, Tex. Ejecting-penholder. No. 964,573; July 19; Sp. p. 3382; Gaz. vol. 156; p. 578.
Smith, John O., Cleveland, Ohio. Under-water exhaust and muffler. No. 977,976; Dec. 6; Sp. p. 1203; Gaz. vol. 161; p. 192.
Smith, John R., New Hartford, N. Y. Feeding mechanism for stamping-machines. No. 946,584; Jan. 18; Sp. p. 3519; Gaz. vol. 150; p. 593.
Smith, John R., Bradford, assignor of one-half to J. M. Lynch, Hyde Park, Mass. Funnel. No. 953,065; Mar. 29; Sp. p. 5337; Gaz. vol. 152; p. 982.
Smith, John R., Bradford, assignor to R. A. Jordan, trustee, Brookline, Mass. Tank-indicator. No. 956,907; May 3; Sp. p. 894; Gaz. vol. 154; p. 141.
Smith, John S., Fort Wayne, Ind. Railway-crossing. No. 959,893; May 31; Sp. p. 7499; Gaz. vol. 154; p. 1267.

Alphabetical list of patentees—Continued.

Smith, John S., St. Louis, Mo. Smoke-consuming furnace. No. 963,953; July 12; Sp. p. 2052; Gaz. vol. 156; p. 336.

Smith, John S., Rea, Mo. Corn-planter attachment. No. 971,320; Sept. 27; Sp. p. 4620; Gaz. vol. 158; p. 809.

Smith, John W., Stanley, assignor of one-half to F. A. Sherman, Independence, Iowa. Carbureter. No. 955,218; Apr. 19; Sp. p. 3286; Gaz. vol. 153; p. 588.

Smith, Johney E., De Lamere, N. D. Curtain-guide. No. 970,130; Sept. 13; Sp. p. 2109; Gaz. vol. 158; p. 359.

Smith, Johnny B., Johannesburg, Transvaal. Hanging receptacle for medicines and the like. No. 962,595; June 28; Sp. p. 4993; Gaz. vol. 155; p. 874.

Smith, Joseph A., assignor to W. H. G. Kirkpatrick, Philadelphia, Pa. Cutting-tool. No. 967,683; Aug. 16; Sp. p. 3919; Gaz. vol. 157; p. 673.

Smith, Joseph E. (See Nolan, Smith, and Nolan.)

Smith, Joseph E., Hot Springs, Ark. Buckle. No. 960,593; June 7; Sp. p. 723; Gaz. vol. 155; p. 119.

Smith, Joseph R., assignor to Waterbury Button Company, Waterbury, Conn. Stocking-supporter grip. No. 977,564; Dec. 6; Sp. p. 345; Gaz. vol. 161; p. 50.

Smith, Josiah H., assignor to The American Suspension Railway Company, Philadelphia, Pa. Suspension-railway-car frame and supporting-truck therefor. No. 953,352; Mar. 29; Sp. p. 5968; Gaz. vol. 152; p. 1075.

Smith, Josiah H., assignor to W. H. Tigerman, Philadelphia, Pa. Lawn-mower. No. 957,009; May 3; Sp. p. 1108; Gaz. vol. 154; p. 174.

Smith, Junius G., Monticello, Ind. Skein and holder therefor. No. 963,084; July 5; Sp. p. 117; Gaz. vol. 156; p. 21.

Smith, Karl, Sharpsville, Pa. Collapsible box. No. 970,858; Sept. 20; Sp. p. 3693; Gaz. vol. 158; p. 630.

Smith, Katherine G. (See Wood, James M., assignor.)

Smith, Leo C., Minneapolis, Minn. Combined heating and ventilating system. No. 974,928; Nov. 8; Sp. p. 1930; Gaz. vol. 160; p. 318.

Smith, Leo F., Chicago, Ill. Loose-leaf booklet. No. 964,189; July 12; Sp. p. 2529; Gaz. vol. 156; p. 416.

Smith, Leonard, Stratford, Ontario, Canada. Collar-stud. No. 968,707; Aug. 30; Sp. p. 6148; Gaz. vol. 157; p. 1073.

Smith, Leonidas C. (See Moore, James L., assignor.)

Smith, Leslie E. and W., Tupelo, Miss. Automatic hose-valve. No. 958,779; May 24; Sp. p. 5141; Gaz. vol. 154; p. 866.

Smith, Louis, Chicago, Ill. Mileage-ticket. No. 953,672; Mar. 29; Sp. p. 6662; Gaz. vol. 152; p. 1186.

Smith, Louis, Harrisburg, Pa. Drill-press table. No. 973,142; Oct. 18; Sp. p. 3600; Gaz. vol. 159; p. 621.

Smith, Louis R., Chardon, Ohio. Regulator. No. 967,847; Aug. 16; Sp. p. 4257; Gaz. vol. 157; p. 728.

Smith, Lucien A., Detroit, Mich. Window-awning. No. 977,565; Dec. 6; Sp. p. 345; Gaz. vol. 161; p. 50.

Smith, Luther K. (See Faessler and Smith.)

Smith, Luther K., Moberly, Mo. Lubricating device. No. 972,659; Oct. 11; Sp. p. 2510; Gaz. vol. 159; p. 426.

Smith Manufacturing Company. (See Fitzgerald, Jeremiah C., assignor.)

Smith Manufacturing Company. (See Smith, Ashley C., assignor.)

Smith, Marcus E., Watertown, Mass. Apparatus for making cement building-blocks. No. 962,104; June 21; Sp. p. 3892; Gaz. vol. 155; p. 680.

Smith, Martin J., Brockton, Mass. Swinging support for window-shades. No. 971,414; Sept. 27; Sp. p. 4797; Gaz. vol. 158; p. 839.

Smith, Mary C. (See Messenger, Adelaide, assignor.)

Smith, Mary E., administratrix. (See Smith, Albert J.)

Smith, Melville B., Ozone Park, N. Y. Engine. No. 950,248; Feb. 22; Sp. p. 5245; Gaz. vol. 151; p. 920.

Smith, Merritt W., Troy, Pa. Bolt and nut lock for connecting-rods. No. 945,110; Jan. 4; Sp. p. 213; Gaz. vol. 150; p. 36.

Smith, Mervyn P. T., Slaidburn, Clitheroe, England. Sextant. No. 957,386; May 10; Sp. p. 1916; Gaz. vol. 154; p. 333.

Smith, Minot S., South Norwalk, Conn. Oyster-carrier. No. 954,769; Apr. 12; Sp. p. 2331; Gaz. vol. 153; p. 403.

Smith, Morris F., assignor to Smith-Condit Arms Company, Philadelphia, Pa. Firearm. No. 954,654; Apr. 12; Sp. p. 2059; Gaz. vol. 153; p. 362.

Smith, Morris F., Philadelphia, Pa., assignor to Standard Arms Company. Profiling-machine. No. 956,209; Apr. 26; Sp. p. 5473; Gaz. vol. 153; p. 957.

Smith, Nathan J., Halstead, Kans. Adjustable pattern for tongue-hounds. No. 959,398; May 24; Sp. p. 6425; Gaz. vol. 154; p. 1075.

Smith, Newton A., assignor of one-half to S. H. Goodall, Marion, Ill. Coal-washer. No. 979,584; Dec. 27; Sp. p. 4686; Gaz. vol. 161; p. 822.

Smith, Oberlin, Bridgeton, N. J. Double-action toggle-press. No. 968,608; Aug. 30; Sp. p. 5899; Gaz. vol. 157; p. 1039.

Smith, Omar B., *et al.* (See Crim and Loy, assignors.)

Smith, Oscar A., assignor to The National Acme Manufacturing Company, Cleveland, Ohio. Cross-drilling attachment. No. 973,716; Oct. 25; Sp. p. 4843; Gaz. vol. 159; p. 842.

Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Nut-feed for tapping-machines. No. 975,728; Nov. 15; Sp. p. 3658; Gaz. vol. 160; p. 617.

Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Multiple-drilling machine. No. 975,729; Nov. 15; Sp. p. 3661; Gaz. vol. 160; p. 617.

Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Overload clutch device. No. 979,104; Dec. 20; Sp. p. 3662; Gaz. vol. 161; p. 636.

Smith, Owen A., *et al.* (See Barnes, Ned E., assignor.)

Smith, Patrick J. A., Washington, D. C. Window. No. 952,689; Mar. 22; Sp. p. 4547; Gaz. vol. 152; p. 826.

Smith, Paul S., Newburgh, N. Y., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for recovering sulfur. No. 945,111; Jan. 4; Sp p. 214; Gaz. vol. 150; p. 36.

Smith, Paul S., Newburgh, N. Y., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for recovering sulfur from sulfur-bearing gases. No. 945,112; Jan. 4; Sp. p. 218; Gaz. vol. 150; p. 37.

Smith Premier Typewriter Company, The. (See Barr, John H., assignor.)

Smith Premier Typewriter Company, The. (See Briggs, Arthur J., assignor.)

Smith Premier Typewriter Company, The. (See Briggs and Ford, assignors.)

Smith Premier Typewriter Company, The. (See Ford, Hannibal C., assignor.)

Smith Premier Typewriter Company. (See Foster, Charles E., assignor.)

Smith Premier Typewriter Company, The. (See Goodhue, Edward A., assignor.)

Smith Premier Typewriter Company, The. (See Roche, William J., assignor.)

Smith Premier Typewriter Company, The. (See Seddon, Harry I., assignor.)

Smith Premier Typewriter Company, The. (See Stillman, George F., assignor.)

Smith, Ralph A., Battle Creek, Mich. Darning device. No. 963,085; July 5; Sp. p. 119; Gaz. vol. 156; p. 21.

Smith, Rayburn C., assignor to George W. Smith & Company, Inc., Philadelphia, Pa. Display-rack. No. 952,646; Mar. 22; Sp. p. 4455; Gaz. vol. 152; p. 812.

Smith, Raymond F., Allegany, N. Y. Educational appliance. No. 964,064; July 12; Sp. p. 2284; Gaz. vol. 156; p. 375.

Smith, Reuben, Spray, N. C. Weft-fork spring. No. 975,647; Nov. 15; Sp. p. 3487; Gaz. vol. 160; p. 591.

Smith, Richard. (See Ferrell, Frederick C., assignor.)

Smith, Richard, Bellows Falls, Vt. Agitator or mixing apparatus. No. 946,281; Jan. 11; Sp. p. 2793; Gaz. vol. 150; p. 465.

Smith, Richard D., Bristol City, Va. Box-lid fastener. No. 965,043; July 19; Sp. p. 4437; Gaz. vol. 156; p. 738.

Smith, Robert A. (See Davison, Tom C., assignor.)

Smith, Robert B., Easley, S. C. Tire-tightener. No. 976,514; Nov. 22; Sp. p. 5371; Gaz. vol. 160; p. 911.

Smith, Robert C., Tye River, Va. Rail-supporter. No. 967,848; Aug. 16; Sp. p. 4259; Gaz. vol. 157; p. 729.

Smith, Robert E. (See Adams, Oscar B., assignor.)

Smith, Robert F. (See Goodmundson and Smith.)

Smith, Robert H. (See Heinig and Smith.)

Smith, Robert L. (See Smith and Walker.)

Smith, Robert L., Lincoln, Nebr. Belt-rack. No. 949,553; Feb. 15; Sp. p. 3715; Gaz. vol. 151; p. 646.

Smith, Robert L., Indianapolis, Ind. Razor-strop. No. 953,443; Mar. 29; Sp. p. 6169; Gaz. vol. 152; p. 1106.

Smith, Robert P. (See Drum and Skitt, assignors.)

Smith, Robert P., Winchester, assignor to American Moistening Company, Boston, Mass. Humidifier. No. 958,555; May 17; Sp. p. 4666; Gaz. vol. 154; p. 767.

Smith, Robert W. J., assignor of one-fourth to J. C. Anderson and one-fourth to R. J. Rowe, Terrell, Tex. Automatic pump for internal-combustion engines. No. 967,073; Aug. 9; Sp. p. 2678; Gaz. vol. 157; p. 439.

Smith, Ronald J., Lynchburg, Va. Display-rack. No. 945,626; Jan. 4; Sp. p. 1331; Gaz. vol. 150; p. 206.

Smith, Roy H., Cleveland, Ohio. Manufacturing thumb-nuts. No. 948,616; Feb. 8; Sp. p. 1777; Gaz. vol. 151; p. 305.

Smith, Roy H., Cleveland, Ohio. Nut-tapping machine. No. 968,889; Aug. 30; Sp. p. 6511; Gaz. vol. 157; p. 1134.

Smith, Royal A., *et al.* (See Wegman, George, assignor.)

Smith, Rufus E., Syracuse, N. Y. Machine for filling conceals. No. 953,353; Mar. 29; Sp. p. 5975; Gaz. vol. 152; p. 1075.

Smith, Russell A., assignor of one-fourth to J. L. Emerson and one-fourth to E. O. Emerson, Jr., Titusville, Pa. Cleaning molding-sand. No. 962,265; June 21; Sp. p. 4252; Gaz. vol. 155; p. 736.

Smith, Samuel. (See Wisner, Andrew J., assignor.)

Smith, Samuel A., Hartshorne, Okla. Fastening. No. 948,530; Feb. 8; Sp. p. 1579; Gaz. vol. 151; p. 278.

Smith, Samuel H., Atlantic City, N. J. Bending-tongs. No. 946,567; Jan. 18; Sp. p. 3488; Gaz. vol. 150; p. 587.

Alphabetical list of patentees—Continued.

Smith, Samuel H., Pittsburg, Pa. Trolley. No. 966,255; Aug. 2; Sp. p. 881; Gaz. vol. 157; p. 140.
Smith, Selvin C., assignor of one-half to C. W. Smith, Waverly, N. Y. Form for laying artificial-stone walks. No. 946,160; Jan. 11; Sp. p. 2527; Gaz. vol. 150; p. 422.
Smith, Sidney R., Littleton, Colo. Cherry-seeder. No. 958,780; May 24; Sp. p. 5143; Gaz. vol. 154; p. 867.
Smith, Sidney R., Gainesville, Tex. Device for teaching penmanship. No. 972,273; Oct. 11; Sp. p. 1662; Gaz. vol. 159; p. 292.
Smith, Sidney W. (See Smith, Albert C. and S. W.)
Smith, Simon P. (See Galland, Joshua H., assignor.)
Smith, Solomon P., Denver, Colo., assignor to Fuel Saving Company, Utica, N. Y. Automatic air-current governor. No. 947,166; Jan. 18; Sp. p. 4760; Gaz. vol. 150; p. 785.
Smith, Solomon P., Denver, Colo., assignor to Fuel Saving Company, Utica, N. Y. Air-current governor. No. 949,009; Feb. 15; Sp. p. 2593; Gaz. vol. 151; p. 465.
Smith, Solomon W. (See Klinker, George W., assignor.)
Smith & Sons Mfg. Co. (See Livengood, Winfield S., assignor.)
Smith, Squire J., assignor of one-half to G. P. Montagu, Vancouver, Canada. Razor-hone. No. 950,808; Mar. 1; Sp. p. 747; Gaz. vol. 152; p. 120.
Smith, Stephen M., Boise, Idaho. Device for utilizing tide-water as motive power. No. 946,585; Jan. 18; Sp. p. 3521; Gaz. vol. 150; p. 593.
Smith, Stephen T., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 953,184; Mar. 29; Sp. p. 5609; Gaz. vol. 152; p. 1020.
Smith, Stephen T., Jr., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 975,299; Nov. 8; Sp. p. 2763; Gaz. vol. 160; p. 446.
Smith, Taylor J., Birmingham, Ala., assignor of one-half to G. H. Smith, Miami, Mo. Cotton-chopper. No. 971,698; Oct. 4; Sp. p. 389; Gaz. vol. 159; p. 68.
Smith, Theodore, Chicago, Ill. Adjustable bracket. No. 960,723; June 7; Sp. p. 982; Gaz. vol. 155; p. 163.
Smith, Theodore, Chicago, Ill. Shade-holder. No. 969,211; Sept. 6; Sp. p. 147; Gaz. vol. 158; p. 24.
Smith, Theodore, assignor to Theo. Smith Manufacturing Company, Chicago, Ill. Heating device. No. 979,043; Dec. 20; Sp. p. 3509; Gaz. vol. 161; p. 614.
Smith, Theodore H., San Francisco, Cal. Valve mechanism for air-compressors. No. 972,408; Oct. 11; Sp. p. 1934; Gaz. vol. 159; p. 339.
Smith, Theodore L., Detroit, Mich. Container. No. 951,853; Mar. 15; Sp. p. 2838; Gaz. vol. 152; p. 516.
Smith, Thomas, *et al.* (See Haskell, Frank H., assignor.)
Smith, Thomas, San Luis Potosi, Mexico. Rod-packing. No. 974,197; Nov. 1; Sp. p. 207; Gaz. vol. 160; p. 35.
Smith, Thomas A., Tilne, Ky. Door-stop. No. 950,707; Mar. 1; Sp. p. 537; Gaz. vol. 152; p. 84.
Smith, Thomas A., and T. Deakin, Walsall, England. Electroplating-barrel apparatus. No. 951,662; Mar. 8; Sp. p. 2440; Gaz. vol. 152; p. 422.
Smith, Thomas C., Bardwell, Ky. Baling-press. No. 978,229; Dec. 13; Sp. p. 1761; Gaz. vol. 161; p. 309.
Smith, Thomas E. (See Bown and Smith.)
Smith, Thomas E., Boston, Mass. Name-leaf for ledgers. No. 968,204; Aug. 23; Sp. p. 5054; Gaz. vol. 157; p. 871.
Smith, Thomas G., Bloemfontein, Orange River Colony. Driving mechanism for pumps. No. 978,669; Dec. 13; Sp. p. 2717; Gaz. vol. 161; p. 463.
Smith, Thomas H., Jamestown, N. Y. Twister stop-motion. No. 967,987; Aug. 23; Sp. p. 4553; Gaz. vol. 157; p. 799.
Smith, Thomas J. (See Narance, George, assignor.)
Smith, Thomas L., Milwaukee, Wis. Portable side-loading device for mixing-machines. No. 950,122; Feb. 22; Sp. p. 4977; Gaz. vol. 151; p. 875.
Smith, Thomas L., assignor to The T. L. Smith Company, Milwaukee, Wis. Mixing-machine. No. 951,460; Mar. 8; Sp. p. 2037; Gaz. vol. 152; p. 353.
Smith, Thomas L., assignor to The T. L. Smith Company, Milwaukee, Wis. Mixing-machine. No. 968,275; Aug. 23; Sp. p. 5212; Gaz. vol. 157; p. 897.
Smith, Thomas M., Baltimore, Md. Hydraulic invalid-lifter. No. 976,307; Nov. 22; Sp. p. 4931; Gaz. vol. 160; p. 840.
Smith, Thomas T., Washington, D. C. Window-fastener. No. 976,005; Nov. 15; Sp. p. 4208; Gaz. vol. 160; p. 713.
Smith, Titus K., Brooklyn, N. Y. Wall. No. 964,942; July 19; Sp. p. 4228; Gaz. vol. 156; p. 706.
Smith, Ulysses S., Sacramento, Cal. Air-brake governor. No. 950,642; Mar. 1; Sp. p. 384; Gaz. vol. 152; p. 62.
Smith, Victor A., Mineral Wells, Tex. Clothes-boiler. No. 971,086; Sept. 27; Sp. p. 4155; Gaz. vol. 158; p. 733.
Smith, Virgil A., Kenedy, Tex. Safe. No. 952,761; Mar. 22; Sp. p. 4706; Gaz. vol. 152; p. 850.
Smith, Walter F., Philadelphia, Pa., assignor to Carolinas Monazite Company, Gloucester City, N. J. Attachment for wilfley-tables. No. 975,648; Nov. 15; Sp. p. 3488; Gaz. vol. 160; p. 592.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Sheet-feeder. No. 951,973; Mar. 15; Sp. p. 3076; Gaz. vol. 152; p. 555.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Numbering-machine. No. 965,044; July 19; Sp. p. 4438; Gaz. vol. 156; p. 739.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Printing-press. No. 966,256; Aug. 2; Sp. p. 882; Gaz. vol. 157; p. 140.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Paper-trimming machine. No. 974,198; Nov. 1; Sp. p. 210; Gaz. vol. 160; p. 35.
Smith, Watson R. (See Greer, Frank, assignor.)
Smith, Watson R. (See McClure, John H., assignor.)
Smith, Watson R., assignor to Jackson Cushion Spring Co., Jackson, Mich. Spring construction. No. 975,579; Nov. 15; Sp. p. 3350; Gaz. vol. 160; p. 568.
Smith, Wayland F., San Bernardino, Cal. Machine for forming cup-leathers. No. 945,479; Jan. 4; Sp. p. 1011; Gaz. vol. 150; p. 158.
Smith & Wesson Incorporated. (See Clément, Charles P., assignor.)
Smith, Willard A., Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Needle for shoe-lacing machines. No. 946,789; Jan. 18; Sp. p. 3974; Gaz. vol. 150; p. 661.
Smith, Willard A., Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Fastening-machine. No. 962,105; June 21; Sp. p. 3895; Gaz. vol. 155; p. 681.
Smith, William. (See Smith, Leslie E. and W.)
Smith, William, Peshtigo, Wis. Cutting-tool. No. 945,627; Jan. 4; Sp. p. 1332; Gaz. vol. 150; p. 207.
Smith, William, Portland, Oreg. Combination drafting instrument. No. 972,936; Oct. 18; Sp. p. 3153; Gaz. vol. 159; p. 550.
Smith, William, Harlem, Ontario, Canada. Fire-escape. No. 974,929; Nov. 8; Sp. p. 1931; Gaz. vol. 160; p. 319.
Smith, William and R. L., and C. S. Walker, Westminster, London, England. Tile or slab. No. 950,060; Feb. 22; Sp. p. 4858; Gaz. vol. 151; p. 855.
Smith, William C., Kearney, Mo. Foldable and portable stock-pen. No. 948,351; Feb. 8; Sp. p. 1187; Gaz. vol. 151; p. 218.
Smith, William C., Chicago, Ill. Reversible revolving-cylinder motor. No. 953,979; Apr. 5; Sp. p. 581; Gaz. vol. 153; p. 105.
Smith, William D., Denver, Colo. Tool-post. No. 972,582; Oct. 11; Sp. p. 2346; Gaz. vol. 159; p. 401.
Smith, William E. (See Kolin, James, assignor.)
Smith, William H., Swinton, England. Continuous kiln. No. 951,461; Mar. 8; Sp. p. 2044; Gaz. vol. 152; p. 354.
Smith, William H., Connellsville, Pa. Track-sander. No. 975,803; Nov. 15; Sp. p. 3818; Gaz. vol. 160; p. 643.
Smith, William H., Arlington, assignor of one-half to F. B. Mott, Galesburg, Ill. Trunk, chest, or the like. No. 977,049; Nov. 29; Sp. p. 6567; Gaz. vol. 160; p. 1120.
Smith, William H., Penge, assignor to J. H. Marshall, London, England. Electric piano-player. No. 979,715; Dec. 27; Sp. p. 4951; Gaz. vol. 161; p. 868.
Smith, William H., and J. H. Klassen, Los Angeles, Cal. Vehicle-spring. No. 949,308; Feb. 15; Sp. p. 3198; Gaz. vol. 151; p. 564.
Smith, William J. (See Dreisbach, Charles A., assignor.)
Smith, William J. (See Smith, Anthony J., assignor.)
Smith, William J., St. Paul, Minn. Brake. No. 960,425; June 7; Sp. p. 378; Gaz. vol. 155; p. 63.
Smith, William J., Seattle, Wash. Means for locating ships' positions. No. 964,456; July 12; Sp. p. 3071; Gaz. vol. 156; p. 504.
Smith, William J., Seattle, Wash. Saw-feeding device. No. 977,755; Dec. 6; Sp. p. 734; Gaz. vol. 161; p. 115.
Smith, William J., San Luis Obispo, Cal. Flume or conduit. No. 971,087; Sept. 27; Sp. p. 4156; Gaz. vol. 158; p. 733.
Smith, William L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Drilling mechanism. No. 950,193; Feb. 22; Sp. p. 5127; Gaz. vol. 151; p. 900.
Smith, William P., Raleigh, N. C. Comb-cleaner. No. 966,483; Aug. 9; Sp. p. 1358; Gaz. vol. 157; p. 240.
Smith, William R., assignor to Buffalo Leather Co., Buffalo, N. Y. Variable-speed-rolls leather-finishing machine. No. 953,980; Apr. 5; Sp. p. 587; Gaz. vol. 153; p. 105.
Smith, William R., assignor to Buffalo Leather Co., Buffalo, N. Y. Unhairing skins. No. 967,988; Aug. 23; Sp. p. 4555; Gaz. vol. 157; p. 799.
Smith, William R., assignor to Buffalo Leather Co., Buffalo, N. Y. Apparatus for unhairing skins. No. 967,989; Aug. 23; Sp. p. 4557; Gaz. vol. 157; p. 800.
Smith, William T., Birmingham, Ala. Rivet-holding apparatus. No. 966,257; Aug. 2; Sp. p. 884; Gaz. vol. 157; p. 140.
Smith, Willis A., New York, N. Y. Safety-razor. No. 978,230; Dec. 13; Sp. p. 1763; Gaz. vol. 161; p. 310.
Smith, Willis D., assignor of one-half to J. M. Triggs, Huntington, Ind. Sectional metallic window-frame. No. 976,308; Nov. 22; Sp. p. 4932; Gaz. vol. 160; p. 841.
Smith, Willis E., Owensboro, assignor of one-half to E. Bowne, Cloverport, Ky. Tile-cutting machine. No. 967,456; Aug. 16; Sp. p. 3462; Gaz. vol. 157; p. 596.
Smith, Winfield S., Ossining, N. Y. Emergency-tire. No. 972,274; Oct. 11; Sp. p. 1664; Gaz. vol. 159; p. 293.

Alphabetical list of patentees—Continued.

Smithdale, Arthur E., Acle, England. Shade or globe holder. No. 965,340; July 26; Sp. p. 5059; Gaz. vol. 156; p. 870.
Smithdeal, William F., Salisbury, N. C. Churn. No. 956,833; May 3; Sp. p. 726; Gaz. vol. 154; p. 115.
Smithson, Ammi H., Prospect, Ohio. Land-roller. No. 950,412; Feb. 22; Sp. p. 5553; Gaz. vol. 151; p. 973.
Smithson, Charles, and J. W. Osborne, Winchester, Ill.; said Osborne assignor to said Smithson. Insulator. No. 965,123; July 19; Sp. p. 4584; Gaz. vol. 156; p. 765.
Smock, Abram L., Guion, Ind. Grain-car door. No. 965,958; Aug. 2; Sp. p. 229; Gaz. vol. 157; p. 38.
Smoot, Charles H., New York, N. Y. Regulating apparatus for engines. No. 971,088; Sept. 27; Sp. p. 4157; Gaz. vol. 158; p. 734.
Smoot, Charles H., Chicago, Ill., assignor, by mesne assignments, to General Electric Company. Turbo-generator construction. No. 967,254; Aug. 16; Sp. p. 3054; Gaz. vol. 157; p. 529.
Smylie, James A., and G. D. McElwee, Centerville, Miss. Desk attachment. No. 949,666; Feb. 15; Sp. p. 3917; Gaz. vol. 151; p. 683.
Smyth Manufacturing Company, The. (See White, Samuel K., assignor.)
Smyth, William H., Berkeley, Cal. Utilizing heat energy. No. 950,082; Feb. 22; Sp. p. 4896; Gaz. vol. 151; p. 862.
Smyth, William H., Berkeley, Cal. Means for applying fluid metals. No. 975,731; Nov. 15; Sp. p. 3666; Gaz. vol. 160; p. 619.
Smythe, Edwin H., Chicago, Ill. Receiving apparatus for electromagnetic waves. No. 974,838; Nov. 8; Sp. p. 1707; Gaz. vol. 160; p. 287.
Smythe, Edwin H., Chicago, Ill., assignor, by mesne assignments, to General Electric Company. Circuit-breaker. No. 960,049; May 31; Sp. p. 7882; Gaz. vol. 154; p. 1323.
Smythe, Horace E. (See Snyder, Robert M., assignor.)
Smythe, Jonathan P., Longbeach, Cal. Pencil protector and retainer. No. 971,797; Oct. 4; Sp. p. 599; Gaz. vol. 159; p. 105.
Snaman, William E., Pittsburg, Pa. Motor. No. 953,444; Mar. 29; Sp. p. 6170; Gaz. vol. 152; p. 1107.
Snapp, L. D., *et al.* (See Holmes, Frank M., assignor.)
Snavely, Benjamin F. (See Shapley, Raymond R., assignor.)
Sneddon, James P., Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. No. 973,717; Oct. 25; Sp. p. 4845; Gaz. vol. 159; p. 842.
Snedeker, Franklin E., Trenton, N. J. Sectional board for supporting maps and other articles. No. 964,065; July 12; Sp. p. 2286; Gaz. vol. 156; p. 376.
Snedeker, James W., Adrian, Mich. Carbureter. No. 958,897; May 24; Sp. p. 5431; Gaz. vol. 154; p. 909.
Snee, William, West Elizabeth, Pa., assignor to American Power & Mfg. Co., Pittsburg, Pa. Fluid-actuated motor. No. 970,404; Sept. 13; Sp. p. 2669; Gaz. vol. 158; p. 451.
Sneed, H. M. (See Seawell, James, assignor.)
Sneed, Joseph R., Pulaski, Ill. Railway-tie. No. 950,146; Feb. 22; Sp. p. 5020; Gaz. vol. 151; p. 883.
Sneer, George S., Silverton, Colo. Device for thawing explosives. No. 965,760; July 26; Sp. p. 5971; Gaz. vol. 156; p. 1014.
Sneeston, William H. (See Seelye and Sneeston.)
Sneil, Joseph E., Newark, and G. T. Hand, East Orange, N. J., assignors to Delaware, Lackawanna & Western Railroad Company, New York, N. Y. Chute conveyer. No. 954,895; Apr. 12; Sp. p. 2642; Gaz. vol. 153; p. 447.
Snell, Charles H., Los Angeles, Cal. Pliers. No. 960,724; June 7; Sp. p. 984; Gaz. vol. 155; p. 164.
Snell, George D., Denver, Colo. Game apparatus. No. 973,084; Oct. 18; Sp. p. 3464; Gaz. vol. 159; p. 600.
Snell, Louis, Woodhaven, N. Y. Automatic draft-regulator. No. 968,609; Aug. 30; Sp. p. 5901; Gaz. vol. 157; p. 1040.
Snell, Lyle K., and W. E. Wilber, Detroit, Mich. Boring-tool. No. 967,255; Aug. 16; Sp. p. 3056; Gaz. vol. 157; p. 529.
Snelling, Jesse E., Newark, Ohio. Railway road-bed. No. 964,190; July 12; Sp. p. 2531; Gaz. vol. 156; p. 417.
Snelling, John C., Mitcham, England. Machine for producing slabs for building purposes. No. 949,505; Feb. 15; Sp. p. 3613; Gaz. vol. 151; p. 630.
Snevely, James E., Salt Lake City, Utah. Dusting-brush. No. 948,617; Feb. 8; Sp. p. 1778; Gaz. vol. 151; p. 305.
Snipes, Thomas D. (See Medcalf, William M., assignor.)
Snively, Edwin S., assignor to David Cole Creamery Company, Omaha, Nebr. Pasteurized-cream cooler and aerator. No. 965,604; July 26; Sp. p. 5640; Gaz. vol. 156; p. 960.
Snodgrass, Edmun D., Tillamook, Oreg. Attachment for bath-cocks. No. 973,143; Oct. 18; Sp. p. 3601; Gaz. vol. 159; p. 621.
Snodgrass, Eliga C. (See Thompson and Snodgrass.)
Snook, Homer C., Philadelphia, Pa., assignor to Roentgen Manufacturing Company. X-ray system. No. 954,056; Apr. 5; Sp. p. 744; Gaz. vol. 153; p. 130.
Snover, Victor T. (See Lee, Snover, and Palmer.)
Snow, Charles J., Lansdowne, Pa. Condenser. No. 956,210; Apr. 26; Sp. p. 5482; Gaz. vol. 153; p. 958.
Snow, Charles J., Lansdowne, Pa. Steam-condenser. No. 956,211; Apr. 26; Sp. p. 5485; Gaz. vol. 153; p. 958.
Snow, Claude C., Hinsdale, Ill. Carrier for mail-pouches. No. 977,481; Dec. 6; Sp. p. 123; Gaz. vol. 161; p. 21.
Snow, David L. (See Snow, William D. and D. L.)
Snow, Frank P., assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Valve or gate. No. 966,713; Aug. 9; Sp. p. 1863; Gaz. vol. 157; p. 318.
Snow, Fred W., Hillburn, N. Y., A. Gemunder and W. Michel, Columbus, Ohio, assignors to Ramapo Iron Works, Hillburn, N. Y. Auxiliary automatic safety-switch appliance. No. 965,243; July 26; Sp. p. 4832; Gaz. vol. 156; p. 835.
Snow, Frederick, assignor, by mesne assignments, to Conkling Company, Chicago, Ill. Valve. No. 958,021; May 17; Sp. p. 3335; Gaz. vol. 154; p. 580.
Snow, George B., Buffalo, N. Y. Dental plugging instrument. No. 948,484; Feb. 8; Sp. p. 1485; Gaz. vol. 151; p. 263.
Snow, George H., Walpole, Mass. Garment-supporter. No. 957,117; May 3; Sp. p. 1316; Gaz. vol. 154; p. 210.
Snow, George W., Holyoke, Mass. Trolley-retrieving device. No. 951,622; Mar. 8; Sp. p. 2352; Gaz. vol. 152; p. 407.
Snow, Isaac, and G. Stubbings, Lawrence, Mass. Shuttle for looms. No. 969,912; Sept. 13; Sp. p. 1658; Gaz. vol. 158; p. 286.
Snow, John L. (See McKinney, Leo P., assignor.)
Snow, John R., Philadelphia, Pa. Game apparatus. No. 957,266; May 10; Sp. p. 1667; Gaz. vol. 154; p. 293.
Snow, Orrie B., Mountain Top, Ark. Automatic switch. No. 967,256; Aug. 16; Sp. p. 3056; Gaz. vol. 157; p. 529.
Snow, Orto S., near Grand View, assignor of one-half to B. Boswell, Grand View, Tex. Cotton-chopper. No. 950,966; Mar. 1; Sp. p. 1057; Gaz. vol. 152; p. 169.
Snow, Renceler C. (See Côté and Snow.)
Snow, Renceler C., assignor to Ware Machine & Loom Company, Ware, Mass. Loom. No. 959,174; May 24; Sp. p. 5991; Gaz. vol. 154; p. 1002.
Snow, Stephen, Everett, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 946,708; Jan. 18; Sp. p. 3780; Gaz. vol. 150; p. 633.
Snow, William D. and D. L., Philadelphia, Pa. Manufacture of linoleum. No. 948,189; Feb. 1; Sp. p. 838; Gaz. vol. 151; p. 137.
Snow, William J., Vilonia, Ark. Harrow. No. 970,964; Sept. 20; Sp. p. 3885; Gaz. vol. 158; p. 664.
Snow, William N., Janesville, Wis. Grate. No. 976,309; Nov. 22; Sp. p. 4933; Gaz. vol. 160; p. 841.
Snowden, John D. W. (See Geer, Harry R., assignor.)
Snowden, Rene R., assignor of one-fourth to J. R. Kline, Los Angeles, Cal., one-fourth to A. Schaub, Pittsburg, Pa., and one-fourth to C. W. Flanagan, Lakeland, Fla. Composition of matter. No. 952,762; Mar. 22; Sp. p. 4707; Gaz. vol. 152; p. 850.
Snuggs, John H., assignor, by mesne assignments, to Ventilated Cushion and Spring Co., Jackson, Mich. Spring construction. No. 976,104; Nov. 15; Sp. p. 4412; Gaz. vol. 160; p. 747.
Snyder, Allison F., Bayard, Nebr., assignor of one-half to J. L. Detrick. Hay loader and stacker. No. 963,332; July 5; Sp. p. 741; Gaz. vol. 156; p. 107.
Snyder, Anthony A., *et al.* (See Swegles, John, assignor.)
Snyder, Bowman D. (See Riggle and Snyder.)
Snyder, Bradley A., Hyattsville, Md., and M. A. Custis, Washington, D. C., assignors to said M. A. Custis. Door attachment for elevator freight-compartments. No. 957,807; May 10; Sp. p. 2770; Gaz. vol. 154; p. 475.
Snyder, Charles S., Philadelphia, Pa. Roll for wool-thread machines. No. 946,077; Jan. 11; Sp. p. 2364; Gaz. vol. 150; p. 392.
Snyder, Daniel O., Muncy, Pa. Combined bill-holder and coin-purse. No. 979,806; Dec. 27; Sp. p. 5184; Gaz. vol. 161; p. 899.
Snyder, Edgar W., Olathe, Kans. Apparatus for devulcanizing rubber. No. 951,974; Mar. 15; Sp. p. 3079; Gaz. vol. 152; p. 556.
Snyder, Edgar W., Olathe, Kans. Packing. No. 954,655; Apr. 12; Sp. p. 2064; Gaz. vol. 153; p. 362.
Snyder, Emmanuell, Canton, Ohio. Corn-planter. No. 955,707; Apr. 19; Sp. p. 4363; Gaz. vol. 153; p. 753.
Snyder, Frank G., and C. P. Mullen, Philadelphia, Pa. Bobbin or spool. No. 968,276; Aug. 23; Sp. p. 5216; Gaz. vol. 157; p. 898.
Snyder, Frank H., Bronson, Mich. Mint-planter. No. 964,820; July 19; Sp. p. 3982; Gaz. vol. 156; p. 663.
Snyder, Frank M., Cresson, Pa. Friction draw-gear. No. 970,131; Sept. 13; Sp. p. 2111; Gaz. vol. 158; p. 359.
Snyder, Frederick S., and A. F. Burt, Whitehall, N. Y. Unloading apparatus. No. 946,282; Jan. 11; Sp. p. 2795; Gaz. vol. 150; p. 465.
Snyder, Frederick T., Oak Park, assignor to Electric Metals Company, Chicago, Ill. Smelting ore. No. 974,608; Nov. 1; Sp. p. 1206; Gaz. vol. 160; p. 185.
Snyder, George A., Montgomery, assignor of one-half to A. C. Overly, Camden, Mich. Self-oiling pulley. No. 956,607; May 3; Sp. p. 220; Gaz. vol. 154; p. 37.
Snyder, George C., *et al.* (See Jones, Albert M., assignor.)
Snyder, George C., San Antonio, Tex. Pianoforte-action. No. 969,121; Aug. 30; Sp. p. 6976; Gaz. vol. 157; p. 1214.

Alphabetical list of patentees—Continued.

Snyder, George W. (See Gray, Wiltshire S., assignor.)
Snyder, Harry L., Los Angeles, Cal. Paper-bag holder. No. 962,676; June 28; Sp. p. 5147; Gaz. vol. 155; p. 900.
Snyder, Herman A., Slatington, Pa. Combination blackboard and table. No. 948,905; Feb. 8; Sp. p. 2370; Gaz. vol. 151; p. 403.
Snyder, James C., Wabash, Ind. Burial-vault. No. 950,681; Mar. 1; Sp. p. 458; Gaz. vol. 152; p. 75.
Snyder, Jerome, Barberton, Ohio. Potato-cutter. No. 957,118; May 3; Sp. p. 1317; Gaz. vol. 154; p. 210.
Snyder, John C., Topeka, Kans. Scaffold-bracket. No. 974,609; Nov. 1; Sp. p. 1208; Gaz. vol. 160; p. 186.
Snyder, John F. (See Linville, Robert W., assignor.)
Snyder, Joseph C., McIlhaney, Pa. Horse-feeder. No. 955,005; Apr. 12; Sp. p. 2854; Gaz. vol. 153; p. 484.
Snyder, Joseph P., *et al.* (See Swegles, John, assignor.)
Snyder, Mell K., Detroit, Mich., assignor of one-half to W. D. Royce, Cleveland, Ohio. Door-closer. No. 959,175; May 24; Sp. p. 5993; Gaz. vol. 154; p. 1002.
Snyder, Monroe S., *et al.* (See Warfield, Earl P., assignor.)
Snyder, Odie R., assignor of one-half to J. B. Jones, Knoxville, Tenn. Air-brake indicator. No. 947,213; Jan. 18; Sp. p. 4861; Gaz. vol. 150; p. 802.
Snyder, Otho M., *et al.* (See Jones, Albert M., assignor.)
Snyder, Otho M., Hagerstown, Md. Car-fender. No. 969,667; Sept. 6; Sp. p. 1093; Gaz. vol. 158; p. 175.
Snyder, Robert M., Wilkinsburg, assignor of one-half to H. E. Smythe, Pittsburg, Pa. Rolling-mill. No. 946,828; Jan. 18; Sp. p. 4078; Gaz. vol. 150; p. 675.
Snyder, Roy D., Delta, Pa. Electric switch. No. 979,894; Dec. 27; Sp. p. 5367; Gaz. vol. 161; p. 928.
Snyder, Samuel A. (See Lindsley, Thomas B., assignor.)
Snyder, Simon, assignor to Sprout, Waldron & Co., Muncy, Pa. Gyrating sieve-bolter. No. 961,814; June 21; Sp. p. 3260; Gaz. vol. 155; p. 582.
Snyder, Ward H., Cincinnati, Ohio, assignor to E. L. Robinson, North Attleboro, Mass. Firearm. No. 958,332; May 17; Sp. p. 4234; Gaz. vol. 154; p. 691.
Snyder, William A., Los Angeles, Cal. Furniture. No. 959,631; May 31; Sp. p. 6930; Gaz. vol. 154; p. 1180.
Snyder, William A., Los Angeles, Cal. Cabinet-table. No. 960,594; June 7; Sp. p. 724; Gaz. vol. 155; p. 119.
Snyder, William E. (See Lampman, Herman W., assignor.)
Snyder, William L., Detroit, Mich., assignor to The American Agricultural Chemical Company, New York, N. Y. Separator. No. 960,725; June 7; Sp. p. 986; Gaz. vol. 155; p. 164.
Soans, Cyril A., and A. H. Graves, Chicago, Ill., assignors, by mesne assignments, to Homer Roberts Telephone Co. Party-line telephone. No. 978,951; Dec. 20; Sp. p. 3286; Gaz. vol. 161; p. 582.
Sobel, Eli, New York, W. Gold, Woodhaven, and J. Stretch, Freeport, N. Y. Monolithic construction. No. 951,031; Mar. 1; Sp. p. 1158; Gaz. vol. 152; p. 189.
Sobel, Eli, New York, W. Gold, Woodhaven, and J. Stretch, Freeport, N. Y. Monolithic construction. No. 969,212; Sept. 6; Sp. p. 149; Gaz. vol. 158; p. 24.
Sobel, Eli, New York, W. Gold, Woodhaven, and J. Stretch, Freeport, N. Y. Monolithic construction. No. 969,213; Sept. 6; Sp. p. 150; Gaz. vol. 158; p. 24.
Sober, Morris S., McLoud, Okla. Gun-sight. No. 962,596; June 28; Sp. p. 4994; Gaz. vol. 155; p. 874.
Sobieck, Valentine S., *et al.* (See Louden, Arthur F. D., assignor.)
Soblik, Max, Dusseldorf, Germany. Pneumatically-operated type-writing machine. No. 947,688; Jan. 25; Sp. p. 5960; Gaz. vol. 150; p. 992.
Soboroff, Samuel, *et al.* (See Passman, Abraham, assignor.)
Sochurek, Frank, Sr., Milwaukee, Wis. Bottle-tray. No. 966,258; Aug. 2; Sp. p. 887; Gaz. vol. 157; p. 141.
Sochurek, Louis, Milwaukee, Wis. Filter-pulp washer. No. 945,871; Jan. 11; Sp. p. 1932; Gaz. vol. 150; p. 321.
Sochurek, Louis, Milwaukee, Wis. Bottle-case. No. 966,259; Aug. 2; Sp. p. 887; Gaz. vol. 157; p. 141.
Societa Anonima Italiana Gio Ansaldo Armstrong & Co. (See Giolitti, Federico, assignor.)
Società Anonima per Frigorigeni e Motori "Motofrigor." (See Scaramuzza, Gino, assignor.)
Società Anonima per Griglie e Forni Virgili. (See Virgili, Felicissimo, assignor.)
Societa Generale per La Cianamide. (See Frank and Freudenberg, assignors.) (Reissue.)
Societa Per Brevetti Postali E Ferroviari Con Sede in Torino. (See Sismondi, Camillo, assignor.)
Société A. Darracq & Cie. (1905) Limited. (See Darracq, Pierre A., assignor.)
Societe Alsacienne de Constructions Mecaniques. (See Wenning, Jean C. A., assignor.)
Société Anonyme "Astra." (See Kapferer, Marcel, assignor.)
Societe Anonyme des Anciens Etablissements Panhard et Levassor. (See Krebs, Arthur C., assignor.)
Société Anonyme des Appareils Electriques Nieuport. (See Denièport, Edouard, assignor.)
Société Anonyme des Etablissements Delaunay-Belleville. (See Delaunay-Belleville, Louis M. G., assignor.)
Societe Anonyme des Etablissements Ph. Bonvillian & E. Ronceray. (See Ronceray, Eugene, assignor.)
Société Anonyme des Hauts Fourneaux J. Forges. (See Flohr, Josy, assignor.)
Société Anonyme la Compagnie Générale d'Electro-Chimie de Bozel. (See Strauss, Georges, assignor.)
Société Anonyme Le Crinoid. (See Lecoeur, Albert, assignor.)
Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc. (See Leblanc, Maurice, assignor.)
Société d'Electro-Chimie. (See Hulin, Paul L., assignor.)
Société d'Electro-Chimie *et al.* (See Hulin, Paul L., assignor.)
Societe d'Etudes des Brevets Boirault. (See Boirault, Louis, assignor.)
Societe de la Pompe Vadam. (See Alvergnat, Georges P. O., assignor.)
Societe des Moteurs Gnome. (See Seguin, Louis L. A., assignor.)
Societe des Moteurs Sabathe, The. (See Sabathé, Louis G., assignor.)
Société Française de Constructions Mécaniques (Anciens Etablissements Cail). (See Lavoix, Antoine, assignor.)
Société Francaise de Constructions Mecaniques (Anciens Etablissements Cail). (See Rebourg, Benjamin, assignor.)
Société Générale de Coutellerie et Orfèvrerie. (See Hygonnet, Auguste, assignor.)
Societe l'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude). (See Claude, Georges, assignor.)
Societe l'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude). (See Claude and Lévy, assignors.)
Société Mustel et Cie. (See Mustel, Alphonse L., assignor.)
Société Universelle des Appareils Controleurs. (See Soulage, Georges I. F., assignor.)
Society Compagnie Generale de Phonographes Cinematographes et Appareils de Precision. (See Ivatts, Ernest A., assignor.)
Society of Chemical Industry in Basle. (See Broniatowski, Heinrich, assignor.)
Society of Chemical Industry in Basle. (See Engi, Gadient, assignor.)
Society of Chemical Industry in Basle. (See Kraft, Hermann, assignor.)
Society of Chemical Industry in Basle. (See Pietzsch and Steinbuch, assignors.)
Society of Chemical Industry in Basle. (See Posternak, Swigel, assignor.)
Society of Chemical Industry in Basle. (See Schaarschmidt, Alfred, assignor.)
Sodeau, William H., assignor to W. G. Armstrong Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Means for increasing the energy of stored compressed air. No. 964,574; July 19; Sp. p. 3383; Gaz. vol. 156; p. 578.
Sodemann, Christian W. G., St. Louis, Mo., assignor, by mesne assignments, to The J. H. McLain Company, Canton, Ohio. Pattern for radiator-castings. No. 963,086; July 5; Sp. p. 120; Gaz. vol. 156; p. 21.
Söderberg, Carl W., Ski, near Christiania, Norway. Electric induction-furnace. No. 954,827; Apr. 12; Sp. p. 2482; Gaz. vol. 153; p. 423.
Soderling, Alfred, Chicago, Ill. Friction-clutch. No. 945,250; Jan. 4; Sp. p. 512; Gaz. vol. 150; p. 83.
Soderlund, Albert, Fitzgerald, Ga. Expansion-tool. No. 964,704; July 19; Sp. p. 3750; Gaz. vol. 156; p. 623.
Soderstrom, Gustaf T., assignor to T. A. Low, Renfrew, Ontario, Canada. Cream-separator. No. 950,605; Mar. 1; Sp. p. 300; Gaz. vol. 152; p. 49.
Soderstrom, John A., Chicago, Ill. Sample-card book. No. 959,632; May 31; Sp. p. 6931; Gaz. vol. 154; p. 1180.
Sofge, John. (See Vierengel and Sofge.)
Softley, James W., Grimsby, Ontario, Canada. Cabinet-closet. No. 953,401; Mar. 29; Sp. p. 6081; Gaz. vol. 152; p. 1093.
Sohm, Alfred L., assignor to National Electric Works, Whittier, Cal. Combination telephone instrument. No. 945,480; Jan. 4; Sp. p. 1013; Gaz. vol. 150; p. 159.
Sohm, Alfred L., assignor to National Electric Works, Inc., Los Angeles, Cal. Electric signal system. No. 954,656; Apr. 12; Sp. p. 2065; Gaz. vol. 153; p. 363.
Sohm, Alfred L., assignor to National Electric Works, Whittier, Cal. Electric signal-sounding apparatus. No. 961,036; June 7; Sp. p. 1599; Gaz. vol. 155; p. 268.
Sohm, Alfred L., assignor of one-third to T. D. Heyl and one-third to C. L. Adams, Whittier, Cal. Direct-current motor. No. 950,213; Feb. 22; Sp. p. 5174; Gaz. vol. 151; p. 908.
Sohmer & Company. (See Weber, Peter, assignor.)
Sohn, Jerome V., Saybrook, Ill. Nut-lock. No. 975,171; Nov. 8; Sp. p. 2483; Gaz. vol. 160; p. 401.
Söhnlein, Heinrich, Wiesbaden, Germany. Explosion-engine. No. 946,406; Jan. 11; Sp. p. 3158; Gaz. vol. 150; p. 508.
Sokolov, Jacob. (See Gibbs and Sokolov.)
Sokolov, Jacob, New York, N. Y. Time-recorder. No. 979,585; Dec 27; Sp. p. 4688; Gaz. vol. 161; p. 823.

Sokolov, Jacob, assignor to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 959,268; May 24; Sp. p. 6171; Gaz. vol. 154; p. 1032.
Solem, Peter A. (See Thomas and Solem.)
Soles, Randolph, Ashland, Ohio. Valve for flush-tanks and the like. No. 952,371; Mar. 15; Sp. p. 3845; Gaz. vol. 152; p. 688.
Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Padlock. No. 945,628; Jan. 4; Sp. p. 1334; Gaz. vol. 150; p. 207.
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock. No. 956,212; Apr. 26; Sp. p. 5493; Gaz. vol. 153; p. 959.
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock. No. 956,213; Apr. 26; Sp. p. 5496; Gaz. vol. 153; p. 959.
Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Lock. No. 976,515; Nov. 22; Sp. p. 5371; Gaz. vol. 160; p. 911.
Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Padlock. No. 977,337; Nov. 29; Sp. p. 7175; Gaz vol. 160; p. 1220.
Soley, William H., Philadelphia, Pa., assignor of one-half to T. H. Dallett and Company. Pneumatic tool. No. 947,861; Feb. 1; Sp. p. 175; Gaz. vol. 151; p. 29.
Solfrian, Heinrich W., Holsterhausen, assignor to M. Schimmel, Wanne, Germany. Catching devices for cages. No. 956,214; Apr. 26; Sp. p. 5499; Gaz. vol. 153; p. 959.
Soliani, Nabor, Sestri Ponente, near Genoa, Italy. Warship. No. 956,442; Apr. 26; Sp. p. 5972; Gaz. vol. 153; p. 1037.
Solomon, Alexander P. (See White, Joseph P., assignor.)
Solomon, Frank F. (See Solomon, Joseph and F. F.)
Solomon, Harry, St. Joseph, Mo. Display-rack for neckwear. No. 978,670; Dec. 13; Sp. p. 2718; Gaz. vol. 161; p. 463.
Solomon, Isaac B., assignor to H. C. Rand, Boston, Mass. Non-refillable bottle. No. 972,780; Oct. 11; Sp. p. 2746; Gaz. vol. 159: p. 467.
Solomon, John I., New York, N. Y. Apparatus for examining matter or objects in quantities. No. 961,322; June 14; Sp. p. 2239; Gaz. vol. 155; p. 394.
Solomon, Joseph and F. F., Pittsburg, Pa. Folding umbrella. No. 949,554; Feb. 15; Sp. p. 3718; Gaz. vol. 151; p. 647.
Solomon, William, Cheyenne, Wyo. Reaction propelling mechanism. No. 971,699; Oct. 4; Sp. p. 395; Gaz. vol. 159; p. 69.
Solsem, Frederick N., Peterson, Minn. Attachment for physicians' operating-tables. No. 951,515; Mar. 8; Sp. p. 2142; Gaz. vol. 152; p. 371.
Soltmann, Edward G. (See Bassist, Ellis, assignor.)
Solvay, Ernest, Brussels, Belgium. Apparatus for removing tar from coal-gases. No. 963,401; July 5; Sp. p. 887; Gaz. vol. 156; p. 130.
Solvay Process Company, The. (See Decker, William H., assignor.)
Solvay Process Company, The. (See Trump, Edward N., assignor.)
Solywoda, Frank, Torrington, Conn. Door-lock. No. 953,928; Apr. 5; Sp. p. 486; Gaz. vol. 153; p. 89.
Somdal, Truls A., Springfield, Ill. Optical instrument. No. 971,798; Oct. 4; Sp. p. 600; Gaz. vol. 159; p. 105.
Somersall, William H., Boston, Mass. Incubator. No. 948,906; Feb. 8; Sp. p. 2372; Gaz. vol. 151; p. 404.
Somerville, William J., Cleveland, Ohio. Ink-well. No. 960,726; June 7; Sp. p. 987; Gaz. vol. 155; p. 164.
Sommer, Albert. (See Missall and Sommer.)
Sommer, Albert, New York, N. Y. Obtaining specific gravity. No. 959,633; May 31; Sp. p. 6933; Gaz. vol. 154; p. 1181.
Sommer, August, Hoboken, N. J. Coal-distributing apparatus. No. 952,020; Mar. 15; Sp. p. 3170; Gaz. vol. 152; p. 571.
Sommer, Benjamin L., executor. (See Sommer, Joseph W.)
Sommer, John J., North Attleboro, Mass. Bracelet, belt, &c. No. 960,050; May 31; Sp. p. 7885; Gaz. vol. 154; p. 1324.
Sommer, Joseph W., deceased, Peoria; B. L. Sommer, executor, assignor to Keystone Steel & Wire Company, South Bartonville, Ill. Automatic rod-leading machine. No. 951,996; Mar. 15; Sp. p. 3125; Gaz. vol. 152; p. 563.
Sommerville, Robert A., Skidmore, Tex. Device for clearing waste-pipes. No. 964,575; July 19; Sp. p. 3385; Gaz. vol. 156; p. 578.
Somsen, Henry S., Raymond, Idaho. Combined low-wheeled wagon and sled. No. 962,266; June 21; Sp. p. 4254; Gaz. vol. 155; p. 736.
Sonak, Albert A., Sprague, W. Va. Miner's cap. No. 974,442; Nov. 1; Sp. p. 836; Gaz. vol. 160; p. 124.
Sonander, Andrew, assignor to The Winters-Coleman Scale Company, Springfield, Ohio. Knife-edge bearing. No. 949,094; Feb. 15; Sp. p. 2765; Gaz. vol. 151; p. 491.
Sonander, Andrew, assignor to The Winters-Coleman Scale Company, Springfield, Ohio. Automatic weighing apparatus. No. 952,587; Mar. 22; Sp. p. 4315; Gaz. vol. 152; p. 790.
Sonander, Andrew, assignor to The Winters-Coleman Scale Company, Springfield, Ohio. Automatic weighing-machine. No. 965,959; Aug. 2; Sp. p. 231; Gaz. vol. 157; p. 39.
Sondergard, Frederik K., Westholme, British Columbia, Canada. Cutter-head. No. 972,479; Oct. 11; Sp. p. 2087; Gaz. vol. 159; p. 363.
Sondheimer, Frederick A. (See Reimers, Gerhard, assignor.)
Sonke, Christian, Grand Rapids, Mich. Minnow-bucket. No. 965,662; July 26; Sp. p. 5764; Gaz. vol. 156; p. 981.
Sonnberg, Wilhelm, assignor to Deutsche Waffen- und Munitions-Fabriken, Berlin, Germany. Saddle for machine-gun carriages. No. 964,821; July 19; Sp. p. 3984; Gaz. vol. 156; p. 663.
Sonnberg, Wilhelm, assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Ball-bearing. No. 970,132; Sept. 13; Sp. p. 2113; Gaz. vol. 158; p. 360.
Sonneborn, Sol S., New York, N. Y. Telephone-receiver. No. 963,954; July 12; Sp. p. 2053; Gaz. vol. 156; p. 336.
Sonnenthal, George, and H. Bamford, London, England. Machine for shaping metals. No. 976,754; Nov. 22; Sp. p. 5881; Gaz. vol. 160; p. 993.
Sonntag, Lincoln, San Francisco, Cal. Shoe-holder. No. 954,828; Apr. 12; Sp. p. 2483; Gaz. vol. 153; p. 423.
Sonora Phonograph Company. (See Hoschke, William H., assignor.)
Sontag, George A., Clinton, assignor to Draper Company, Hopedale, Mass. Filling-feeler for looms. No. 968,708; Aug. 30; Sp. p. 6149; Gaz. vol. 157; p. 1073.
Soós, George, Newark, N. J. Rail-joint. No. 978,671; Dec. 13; Sp. p. 2719; Gaz. vol. 161; p. 463.
Soos, Louis, Buffalo, N. Y. Sweeping-machine. No. 971,158; Sept. 27; Sp. p. 4295; Gaz. vol. 158; p. 756.
Soper, George J. (See McCauley, William A., assignor.)
Sorensen, Charles, Gulfport, Miss. Smoke-consumer. No. 967,074; Aug. 9; Sp. p. 2680; Gaz vol. 157; p. 439.
Sorensen, Christen H., Clinton, Minn. Broom-holder. No. 974,998; Nov. 8; Sp. p. 2108; Gaz. vol. 160; p. 343.
Sorensen, Samuel M., Chicago, Ill. Chain guard and silencer. No. 952,647; Mar. 22; Sp. p. 4457; Gaz. vol. 152; p. 812.
Sorensen, Severin N. (See Neswold, John, assignor.)
Sorensen, Thorwald, Ringsted, Iowa. Neck-yoke. No. 977,482; Dec. 6; Sp. p. 125; Gaz. vol. 161; p. 21.
Sorenson, Andrew W., Hutchinson, Minn. Hay-rack and box lifting device. No. 947,088; Jan. 18; Sp. p. 4615; Gaz. vol. 150; p. 762.
Sorenson, Olaf, Grass Valley, Cal. Rope-gripping device for fire-escapes, &c. No. 951,748; Mar. 8; Sp. p. 2603; Gaz. vol. 152; p. 450.
Sorey, Arthur M., Oklahoma, Okla. Bed-spring. No. 977,566; Dec. 6; Sp. p. 347; Gaz. vol. 161; p. 51.
Sorg, William A., Minneapolis, Minn. Line unit-case for printing-machines. No. 979,586; Dec. 27; Sp. p. 4689; Gaz. vol. 161; p. 823.
Sorge, Adolph, Jr., St. Joseph, Mich. Exhaust-head. No. 945,817; Jan. 11; Sp. p. 1802; Gaz. vol. 150; p. 302.
Sorrow, Joseph, Boise, Idaho. Door-fastener. No. 970,273; Sept. 13; Sp. p. 2427; Gaz. vol. 158; p. 409.
Soss, Arthur, Bee, Nebr. Well-hook. No. 974,533; Nov. 1; Sp. p. 1060; Gaz. vol. 160; p. 158.
Soss, Joseph, assignor of one-half to H. R. Canfield, New York, N. Y. Lead and crayon pencil. No. 955,293; Apr. 19; Sp. p. 3444; Gaz. vol. 153; p. 612.
Soucek, Charles H., and F. E. Ustynik, Pierce, Tex. Showcase. No. 951,344; Mar. 8; Sp. p. 1792; Gaz. vol. 152; p. 315.
Soulage, Georges I. F., assignor to Société Universelle des Appareils Controleurs, Paris, France. Machine or apparatus for printing, checking, and automatically summing up the values of tickets of different kinds and series. No. 953,493; Mar. 29; Sp. p. 6276; Gaz. vol. 152; p. 1125.
Soule, Page, Lebam, Wash. Drum for donkey-engines. No. 969,146; Aug. 30; Sp. p. 7031; Gaz. vol. 157; p. 1223.
Sourek, Joseph S., Bath township, Summit county, Ohio. Buckle. No. 947,284; Jan. 25; Sp. p. 5055; Gaz. vol. 150; p. 855.
Sourek, Joseph S., Bath township, Summit county, Ohio. Rope and chain clamp. No. 976,940; Nov. 29; Sp. p. 6317; Gaz. vol. 160; p. 1082.
Sourek, Joseph S., Bath township, Summit county, Ohio. Rope, chain, or wire stretcher. No. 976,941; Nov. 29; Sp. p. 6319; Gaz. vol. 160; p. 1083.
South, George F., London, Ontario, Canada. Load-regulated brake. No. 977,756; Dec. 6; Sp. p. 735; Gaz. vol. 161; p. 116.
Southee, James K. (See Haw and Southee.)
Southern Furniture Company. (See Baltzley, Edwin, assignor.)
Southern Machine Works. (See Brantley, Thomas, assignor.)
Southern Manufacturing Company. (See Pope, Frederick, assignor.)
Southern Manufacturing Company. (See Wight, William L., assignor.)
Southern Savings Life & Accident Insurance Company. (See Jackson, Henry O., assignor.)
Southern Stemming Machine and Manufacturing Co. (See Morris, John O., assignor.)
Southgate, Louis W., Worcester, Mass. Telephone relay or repeater. No. 961,815; June 21; Sp. p. 3267; Gaz. vol. 155; p. 583.

Alphabetical list of patentees—Continued.

Southgate, Louis W., Worcester, Mass. Casting ingots. No. 964,576; July 19; Sp. p. 3386; Gaz. vol. 156; p. 579.
Southwark Foundry & Machine Company, The. (See Petsche, Gustav B., assignor.)
Southwick, Albert N., New York, N. Y. Moistening-machine. No. 955,708; Apr. 19; Sp. p. 4365; Gaz. vol. 153; p. 754.
Southwick, Edward K., Newark, N. J. Light-holder. No. 972,480; Oct. 11; Sp. p. 2088; Gaz. vol. 159; p. 363.
Southwick, George W., Noroton, Conn. Device for fastening belts. No. 960,121; May 31; Sp. p. 8014; Gaz. vol. 154; p. 1346.
Southwick, Plin C., Sandwich, Ill. Printing-frame. No. 968,277; Aug. 23; Sp. p. 5217; Gaz. vol. 157; p. 898.
Southworth, Edward, Portland, Me. Clutch mechanism for punching-machines. No. 961,382; June 14; Sp. p. 2347; Gaz. vol. 155; p. 415.
Southworth, Edward, and E. A. Spaulding, Portland, Me. Punching-machine. No. 961,381; June 14; Sp. p. 2345; Gaz. vol. 155; p. 414.
Southworth, Gertrude V. D., Syracuse, N. Y. Book-cover. No. 961,548; June 14; Sp. p. 2711; Gaz. vol. 155; p. 470.
Southworth, Preston B., assignor of one-half to F. Z. Baldwin, Klamath Falls, Oreg. Churn. No. 951,462; Mar. 8; Sp. p. 2045; Gaz. vol. 152; p. 354.
Sovereign, Clarence L., and A. W. H. Lenders, Waukegan, Ill. Converting apparatus. No. 948,485; Feb. 8; Sp. p. 1486; Gaz. vol. 151; p. 263.
Sowash, James H., and C. E. Stetter, Crestline, Ohio. Pump-handle. No. 952,051; Mar. 15; Sp. p. 3229; Gaz. vol. 152; p. 581.
Sowell, James L., Jasper, Ala. Prophylactic drinking vessel. No. 957,267; May 10; Sp. p. 1668; Gaz. vol. 154; p. 293.
Sower, James H., and J. T. Richards, Louisville, Ky. Box-cover fastener. No. 958,022; May 17; Sp. p. 3337; Gaz. vol. 154; p. 581.
Spacie, Thomas, Chicago, Ill. Roller-skate. No. 964,705; July 19; Sp. p. 3751; Gaz. vol. 156; p. 623.
Spaeth, Gustave A., Columbus, Ohio. Resilient wheel. No. 959,176; May 24; Sp. p. 5994; Gaz. vol. 154; p. 1002.
Spaeth, Otto, Chicago, Ill. Locomotive ash-pit. No. 949,162; Feb. 15; Sp. p. 2907; Gaz. vol. 151; p. 515.
Spähr, Ernest J., assignor of one-half to O. Semler and E. Bohrmann, New York, N. Y. Hub-attaching device. No. 979,105; Dec. 20; Sp. p. 3665; Gaz. vol. 161; p. 636.
Spahr, Otto, and C. Stichler, Philadelphia, Pa. Sad-iron. No. 948,773; Feb. 8; Sp. p. 2117; Gaz. vol. 151; p. 359.
Spalckhaver, William, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Sheet-folding mechanism. No. 955,367; Apr. 19; Sp. p. 3608; Gaz. vol. 153; p. 637.
Spalckhaver, William, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Inking mechanism for printing-machines. No. 965,244; July 26; Sp. p. 4834; Gaz. vol. 156; p. 836.
Spalckhaver, William, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Folding delivery mechanism for printing-machines. No. 968,709; Aug. 30; Sp. p. 6152; Gaz. vol. 157; p. 1074.
Spalding, Frank, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Speed-indicator. No. 951,491; Mar. 8; Sp. p. 2103; Gaz. vol. 152; p. 363.
Spalding, George, Stockton, Cal. Steering-gear for tilling-machines. No. 955,107; Apr. 12; Sp. p. 3036; Gaz. vol. 153; p. 515.
Spalding, John L., and F. G. Schadegg, Aitkin, Minn. Rake. No. 972,031; Oct. 4; Sp. p. 1145; Gaz. vol. 159; p. 192.
Spalding, John W., Aurora, Ill. Spring attachment for water-closets. No. 952,956; Mar. 22; Sp. p. 5103; Gaz. vol. 152; p. 916.
Spalding, John W., Aurora, Ill. Water-closet attachment. No. 953,302; Mar. 29; Sp. p. 5853; Gaz. vol. 152; p. 1058.
Spalke, Emil R., Lawrence, Mass. Ice-pick. No. 949,667; Feb. 15; Sp. p. 3919; Gaz. vol. 151; p. 683.
Spang, George A., Butler, Pa. Rope-knife. No. 969,571; Sept. 6; Sp. p. 901; Gaz. vol. 158; p. 143.
Spang, George A., Butler, Pa. Apparatus for cutting well-pumping cables. No. 969,755; Sept. 6; Sp. p. 1296; Gaz. vol. 158; p. 208.
Spangelo, Albert N. (See Spangelo, James H. and A. N.)
Spangelo, James H. and A. N., Concrete, N. D. Fire-grate. No. 951,345; Mar. 8; Sp. p. 1796; Gaz. vol. 152; p. 315.
Spangler, George P., Los Angeles, Cal. Clasp or buckle. No. 972,937; Oct. 18; Sp. p. 3155; Gaz. vol. 159; p. 550.
Spangler, J. W. (See Clay, John B., assignor.)
Spangler, Jacob R., New York, assignor to S. D. Manufacturing Co., Brooklyn, N. Y. Motor-cycle friction-clutch. No. 974,839; Nov. 8; Sp. p. 1712; Gaz. vol. 160; p. 287.
Spangler, James M., Canton, Ohio. Carpet-sweeper handle attachment. No. 956,215; Apr. 26; Sp. p. 5500; Gaz. vol. 153; p. 959.
Spangler, James M., Canton, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Detachable brush-guard for carpet-sweepers. No. 974,304; Nov. 1; Sp. p. 507; Gaz. vol. 160; p. 75.
Spangler, William I., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 973,577; Oct. 25; Sp. p. 4534; Gaz. vol. 159; p. 792.
Sparenburg, John, Chicago, Ill. Shampooing device. No. 973,822; Oct. 25; Sp. p. 5049; Gaz. vol. 159; p. 878.
Sparks, George M. (See Huse, Byron, assignor.)
Sparks, John, Kimberly, Cal. Telephone-transmitter. No. 978,070; Dec. 6; Sp. p. 1391; Gaz. vol. 161; p. 223.
Sparks, Joseph E., Crossett, Ark. Abdominal retractor. No. 955,006; Apr. 12; Sp. p. 2856; Gaz. vol. 153; p. 484.
Sparks, Litch, Blue Ridge, Tex. Chimney-holder. No. 972,275; Oct. 11; Sp. p. 1665; Gaz. vol. 159; p. 293.
Sparks, S. Ed. (See Kramer, Henry H., assignor.)
Sparks, Thomas J., San Francisco, Cal., assignor of one-half to Uncle Sam Automobile Co., Phoenix, Ariz., and one-half to E. C. Ray, San Francisco, Cal. Automobile-wheel. No. 954,144; Apr. 5; Sp. p. 931; Gaz. vol. 153; p. 161.
Sparks, Walter F., Sinton, Tex. Track raising, lowering, and ballasting machine. No. 966,613; Aug. 9; Sp. p. 1668; Gaz. vol. 157; p. 285.
Sparling, Edith H., *et al.* (See Opitz, Frank E., assignor.)
Sparr, Benjamin F., New York, N. Y. Coupling. No. 971,321; Sept. 27; Sp. p. 4623; Gaz. vol. 158; p. 809.
Sparrow, Arthur E., South Chicago, Ill. Tube-mill cement-feeder. No. 967,075; Aug. 9; Sp. p. 2682; Gaz. vol. 157; p. 440.
Sparrow, Simon, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Brush or collector for electrical machines. No. 959,634; May 31; Sp. p. 6934; Gaz. vol. 154; p. 1181.
Späth, Carl, Steglitz, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Making screens for color photography. No. 946,470; Jan. 11; Sp. p. 3298; Gaz. vol. 150; p. 530.
Spatschil, Charles, Jersey City, N. J., assignor to The Shiman Miller Manufacturing Company, New York, N. Y. Hinge-joint for bracelets and other articles. No. 947,312; Jan. 25; Sp. p. 5125; Gaz. vol. 150; p. 865.
Spaulding, Charles F., Waltham, Mass. Acetylene-generator. No. 960,051; May 31; Sp. p. 7886; Gaz. vol. 154; p. 1324.
Spaulding, Charles W., Clinton, Mo. Extension step-ladder. No. 964,324; July 12; Sp. p. 2811; Gaz. vol. 156; p. 464.
Spaulding, Eugene A. (See Southworth and Spaulding.)
Spaulding, Frederick S., Denver, Colo., assignor to The Spaulding Manufacturing Company, Boston, Mass. Gliding swing. No. 957,855; May 10; Sp. p. 2865; Gaz. vol. 154; p. 491.
Spaulding, Ira B., South Royalton, Vt. Concrete chimney. No. 963,402; July 5; Sp. p. 888; Gaz. vol. 156; p. 130.
Spaulding Manufacturing Company, The. (See Spaulding, Frederick S., assignor.)
Spaulding, Thomas W., San Francisco, Cal. Game-board. No. 958,556; May 17; Sp. p. 4667; Gaz. vol. 154; p. 767.
Spawn, Able F., Houston, Tex. Fire-extinguisher. No. 965,761; July 26; Sp. p. 5972; Gaz. vol. 156; p. 1015.
Spayd, Fred M. (See Spayd, Walker H. and F. M.)
Spayd, Walker H. and F. M., Van Wert, Ohio. Exhaust-valve-operating mechanism for explosive-engines. No. 964,706; July 19; Sp. p. 3753; Gaz. vol. 156; p. 624.
Speakman, Charles W., Monongahela, Pa. Mine-insulator. No. 971,322; Sept. 27; Sp. p. 4624; Gaz. vol. 158; p. 810.
Spear, Anson R., St. Paul, Minn. Envelop. No. 946,689; Jan. 18; Sp. p. 3749; Gaz. vol. 150; p. 627.
Spear, Furman D., Brooklyn, assignor to Armspear Manufacturing Company, New York, N. Y. Lantern. No. 959,635; May 31; Sp. p. 6935; Gaz. vol. 154; p. 1181.
Spear, Lawrence Y., assignor to Electric Boat Company, Greenport, N. Y. Device for conning submarine boats. No. 954,707; Apr. 12; Sp. p. 2173; Gaz. vol. 153; p. 380.
Spear, Lawrence Y., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Means for emptying submergence-tanks in submergible boats. No. 964,943; July 19; Sp. p. 4231; Gaz. vol. 156; p. 707.
Spear, Lawrence Y., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Submarine boat equipped with submerging-planes. No. 973,227; Oct. 18; Sp. p. 3804; Gaz. vol. 159; p. 650.
Spears, Mathew E., De Ridder, La. Log-hook. No. 951,463; Mar. 8; Sp. p. 2046; Gaz. vol. 152; p. 354.
Specht, Adolph A., assignor to Gem City Stove Mfg. Co., Quincy, Ill. Draft-regulating device. No. 955,007; Apr. 12; Sp. p. 2857; Gaz. vol. 153; p. 485.
Speck, Charles M., and C. F. Earl, Chicago, Ill. Trolley-pole. No. 976,942; Nov. 29; Sp. p. 6321; Gaz. vol. 160; p. 1083.
Speck, James F., Hewitt, Okla. Nut-lock. No. 978,499; Dec. 13; Sp. p. 2339; Gaz. vol. 161; p. 404.
Speechley, George G. (See Inglish, Ross V., assignor.)
Speed, James B. (See Thelen and Speed.)
Speed, James B., assignor of one-half to A. M. Hunt, Berkeley, Cal. Measuring the flow of fluids. No. 970,965; Sept. 20; Sp. p. 3886; Gaz. vol. 158; p. 664.
Speer, Charles H., Chester, Pa., assignor of one-half to W. M. Carr, New York, N. Y. Liquid-fuel burner. No. 952,372; Mar. 15; Sp. p. 3846; Gaz. vol. 152; p. 688.

Speer, Edward A., Sturgis, S. D. Envelop-seal. No. 973,987; Oct. 25; Sp. p. 5391; Gaz. vol. 159; p. 936.
Speer, Edward D. (See Richards, Francis H., assignor.)
Speer, Jacob S., Springfield, Mo. Window-screen. No. 975,172; Nov. 8; Sp. p. 2485; Gaz. vol. 160; p. 402.
Speer, James R., Pittsburg, and G. H. Harvey, Glenfield, assignors to Brownsville Glass Company, Pittsburg, Pa. Manufacture of drawn glass. No. 977,685; Dec. 6; Sp. p. 599; Gaz. vol. 161; p. 91.
Speer, Robert S., Sedgwick, Kans. Fifth-wheel. No. 969,668; Sept. 6; Sp. p. 1095; Gaz. vol. 158; p. 175.
Speicher, Mathias, assignor of one-half to D. M. Griffiths, Carbondale, Pa. Locomotive-exhaust. No. 947,689; Jan. 25; Sp. p. 5961; Gaz. vol. 150; p. 992.
Speicher, Paul J. (See Purdy and Speicher.)
Speidel, Louis, and A. A. Muller, Ohaton, Alberta, Canada. Safety-stirrup. No. 952,373; Mar. 15; Sp. p. 3848; Gaz. vol. 152; p. 688.
Speir, William B., assignor of one-half to W. Coe, Rosalie, Tex. Spring-seat. No. 950,061; Feb. 22; Sp. p. 4859; Gaz. vol. 151; p. 855.
Speirs, James. (See Spencer and Speirs.)
Spelke, Abram. (See Davidoff, Louis, assignor.)
Spellman, Fred I., Mansfield, Ohio. Portable testing device for mechanically-propelled vehicles. No. 976,705; Nov. 22; Sp. p. 5760; Gaz. vol. 160; p. 975.
Spellman, Herbert W., and C. E. Olmsted, assignors to Landers, Frary and Clark, New Britain, Conn. Power-transmission mechanism. No. 969,214; Sept. 6; Sp. p. 152; Gaz. vol. 158; p. 25.
Spelts, Richard D., Lincoln, Nebr. Farrowing-pen for swine. No. 975,649; Nov. 15; Sp. p. 3489; Gaz. vol. 160; p. 592.
Spence, John A., Jr., Newark, N. J. Collapsible swinging seat or hammock. No. 965,488; July 26; Sp. p. 5366; Gaz. vol. 156; p. 919.
Spence, John C. (See Norton, Spence, and Cudworth.)
Spencer, Alfred G., London, England. Buffer and other spring constructed with india-rubber. No. 971,415; Sept. 27; Sp. p. 4798; Gaz. vol. 158; p. 840.
Spencer Bung Company. (See Spencer, George W., assignor.)
Spencer, Byron R., Spencer, Mich. Watering-trough. No. 947,704; Jan. 25; Sp. p. 5988; Gaz. vol. 150; p. 997.
Spencer, Charles T., Elmira, N. Y. Mitering-machine. No. 979,895; Dec. 27; Sp. p. 5369; Gaz. vol. 161; p. 928.
Spencer, Edwin I., Wichita, Kans. Jack for automobiles. No. 953,157; Mar. 29; Sp. p. 5549; Gaz. vol. 152; p. 1012.
Spencer, Frank J., and J. Speirs, Huddersfield, England. Gear-cutting machine. No. 946,161; Jan. 11; Sp. p. 2529; Gaz. vol. 150; p. 422.
Spencer, Frederick H., Minneapolis, Minn. Manifolding-sales-book cover. No. 960,727; June 7; Sp. p. 990; Gaz. vol. 155; p. 165.
Spencer, George M. (See Rowntree and Spencer.)
Spencer, George M., Oroville, Wash. Banjo attachment. No. 951,492; Mar. 8; Sp. p. 2105; Gaz. vol. 152; p. 364.
Spencer, George S., Moodus, assignor of one-third to F. Smith, Bridgeport, Conn. Cord-twisting machine. No. 946,162; Jan. 11; Sp. p. 2531; Gaz. vol. 150; p. 422.
Spencer, George W., Atlantic City, N. J., assignor to Spencer Bung Company. Tapping apparatus. No. 965,762; July 26; Sp. p. 5973; Gaz. vol. 156; p. 1015.
Spencer Heater Co. (See Boies and Waddell, assignors.)
Spencer, Henry P., Quinlan, Okla. Stove. No. 972,032; Oct. 4; Sp. p. 1146; Gaz. vol. 159; p. 192.
Spencer, Henry W., London, England. Steam-separator. No. 961,037; June 7; Sp. p. 1605; Gaz. vol. 155; p. 268.
Spencer, Herschel D., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 968,090; Aug. 23; Sp. p. 4793; Gaz. vol. 157; p. 833.
Spencer Importing & Trading Co. (See Spencer, James H., assignor.)
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Connection for pneumatic apparatus. No. 968,810; Aug. 30; Sp. p. 6353; Gaz. vol. 157; p. 1107.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Motor-base. No. 968,995; Aug. 30; Sp. p. 6715; Gaz. vol. 157; p. 1169.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning-tool. No. 969,913; Sept. 13; Sp. p. 1660; Gaz. vol. 158; p. 286.
Spencer, James H., assignor to Spencer Importing & Trading Co., New York, N. Y. Breaking or granulating machine. No. 946,283; Jan. 11; Sp. p. 2799; Gaz. vol. 150; p. 466.
Spencer, James H., and J. Simpson, Salina, Kans. Lifting device. No. 980,020; Dec. 27; Sp. p. 5610; Gaz. vol. 161; p. 970.
Spencer, Jervis, Garrison, assignor to S. S. Janney, Baltimore county, Md. Educational appliance. No. 958,781; May 24; Sp. p. 5144; Gaz. vol. 154; p. 867.
Spencer, Major V., Deer River, Minn. Trip grab-hook. No. 958,978; May 24; Sp. p. 5576; Gaz. vol. 154; p. 937.
Spencer, Oliver H. P. G., assignor of one-third to W. D. Bresnahan and one-third to H. W. Boyer, Columbus, Ohio. Nut-lock. No. 970,274; Sept. 13; Sp. p. 2428; Gaz. vol. 158; p. 409.
Spencer, Robert B., Toledo, Ohio. Clothes-wringer. No. 970,566; Sept. 20; Sp. p. 3036; Gaz. vol. 158; p. 528.
Spencer, Thomas, Pueblo, Colo. Grass-elevator for horse lawn-mowers. No. 954,007; Apr. 5; Sp. p. 643; Gaz. vol. 153; p. 115.
Spencer, Thomas C., Wewahitchka, Fla. Penholder. No. 970,859; Sept. 20; Sp. p. 3695; Gaz. vol. 158; p. 631.
Spencer Turbine Cleaner Company, The. (See Spencer, Ira H., assignor.)
Spencer, William, Philadelphia, Pa. Sign-board. No. 951,921; Mar. 15; Sp. p. 2985; Gaz. vol. 152; p. 540.
Spencer, William B., Chicago, Ill. Butter-separator. No. 977,050; Nov. 29; Sp. p. 6569; Gaz. vol. 160; p. 1121.
Spencer, William M., Burns, Tenn. Rotary engine. No. 950,249; Feb. 22; Sp. p. 5248; Gaz. vol. 151; p. 920.
Spengler, Charles C., Rockford, Ill. Pencil-sharpener. No. 950,797; Mar. 1; Sp. p. 730; Gaz. vol. 152; p. 116.
Spengler, Charles C., Rockford, and H. T. Sidway, assignors to Henry T. Sidway & Company, Chicago, Ill. Heating appliance. No. 956,742; May 3; Sp. p. 516; Gaz. vol. 154; p. 83.
Spengler, Charles C., Rockford, and H. T. Sidway, assignors to Henry T. Sidway & Company, Chicago, Ill. Heating appliance. No. 956,783; May 3; Sp. p. 605; Gaz. vol. 154; p. 96.
Spenlé, John, Salford, England. Apparatus for drying proofed and like fabrics or materials. No. 967,076; Aug. 9; Sp. p. 2685; Gaz. vol. 157; p. 440.
Sperberg, Edward H., assignor to The Selig Polyscope Company, Chicago, Ill. Moving-picture machine. No. 961,655; June 14; Sp. p. 2919; Gaz. vol. 155; p. 505.
Sperberg, Edward H., assignor to The Selig Polyscope Company, Chicago, Ill. Moving-picture machine. No. 972,142; Oct. 4; Sp. p. 1358; Gaz. vol. 159; p. 229.
Spernader, Charles W., Oak Park, Ill. Railway block system. No. 974,716; Nov. 1; Sp. p. 1448; Gaz. vol. 160; p. 223.
Sperry, Albert O., Thayer, Kans. Penholder. No. 960,595; June 7; Sp. p. 725; Gaz. vol. 155; p. 120.
Sperry, Elmer A., Brooklyn, assignor to Hooker Electrochemical Company, New York, N. Y. Cathode. No. 961,549; June 14; Sp. p. 2713; Gaz. vol. 155; p. 470.
Sperry, Elmer A., Brooklyn, assignor to Goldschmidt Detinning Company, New York, N. Y. Producing clear stannic-chlorid solutions. No. 967,990; Aug. 23; Sp. p. 4559; Gaz. vol. 157; p. 800.
Sperry, John F., Kaw, Okla. Power apparatus. No. 972,276; Oct. 11; Sp. p. 1666; Gaz. vol. 159; p. 293.
Spery, Charles F., Chicago, Ill. Miner's fuse-cap. No. 954,595; Apr. 12; Sp. p. 1920; Gaz. vol. 153; p. 341.
Speyer, Herbert E., assignor to Keith, Thomas & Company, Algood, Tenn. Saw-handle. No. 946,163; Jan. 11; Sp. p. 2534; Gaz. vol. 150; p. 423.
Sphaler, Davis B., and B. F. Bryan, Taft, Fla. Turpentine-separator. No. 974,717; Nov. 1; Sp. p. 1450; Gaz. vol. 160; p. 224.
Spicer Brothers Limited. (See Warne, Albert T., assignor.)
Spicer, Clarence W., Plainfield, N. J. Incased universal joint. No. 958,023; May 17; Sp. p. 3338; Gaz. vol. 154; p. 581.
Spicer, Ernest F., Springfield, Mass. Street-sweeper. No. 965,245; July 26; Sp. p. 4837; Gaz. vol. 156; p. 836.
Spicer, George. (See Rankin, Eugene, assignor.)
Spicer, George W., Peru, assignor to G. N. Clymer, Rochester, Ind. Road-scraper. No. 970,966; Sept. 20; Sp. p. 3887; Gaz. vol. 158; p. 664.
Spiegel, Alexander S., Chicago, Ill. Picture post-card or display device. No. 946,407; Jan. 11; Sp. p. 3160; Gaz. vol. 150; p. 508.
Spiegel, Alexander S., assignor to The Attractograph Company, Chicago, Ill. Display device. No. 957,119; May 3; Sp. p. 1320; Gaz. vol. 154; p. 211.
Spiegel, Alexander S., assignor to The Attractograph Company, Chicago, Ill. Advertising apparatus. No. 957,120; May 3; Sp. p. 1324; Gaz. vol. 154; p. 211.
Spiegel, Alexander S., assignor to The Attractograph Company, Chicago, Ill. Advertising apparatus. (Reissue.) No. 13,109; May 3; Sp. p. 1440; Gaz. vol. 154; p. 231.
Spiegel, Edward, New York, N. Y. Slot-machine. No. 953,158; Mar. 29; Sp. p. 5550; Gaz. vol. 152; p. 1012.
Spiegel, Herman, New York, N. Y. Producing pictures upon fabrics. No. 978,500; Dec. 13; Sp. p. 2341; Gaz. vol. 161; p. 404.
Spierer, Charles M., Cairo, Egypt. Tobacco-cleaning machine. No. 973,228; Oct. 18; Sp. p. 3807; Gaz. vol. 159; p. 651.
Spiers, George W., Caesar, Miss. Cultivator. No. 974,840; Nov. 8; Sp. p. 1713; Gaz. vol. 160; p. 288.
Spiess, Georg, Leipzig Connewitz, Germany. Sheet-feeding apparatus. No. 967,077; Aug. 9; Sp. p. 2687; Gaz. vol. 157; p. 441.
Spieth, Karl J., Oberesslingen, Germany. Woodworking-cutter. No. 947,462; Jan. 25; Sp. p. 5476; Gaz. vol. 150; p. 915.
Spiker, James H. (See Jackson, Charles E., assignor.)
Spikes, Richard B., assignor of one-half to T. O. Mason, Albuquerque, N. Mex. Billiard-cue rack. No. 972,277; Oct. 11; Sp. p. 1672; Gaz. vol. 159; p. 294.

Alphabetical list of patentees—Continued.

Spill, Charles J., Springfield, Mass., assignor to United Button Company. Sawing-machine and art of sawing ivory-nuts. No. 978,408; Dec. 13; Sp. p. 2143; Gaz. vol. 161; p. 373.
Spill, Charles J., Springfield, Mass., assignor to United Button Company. Dividing ivory-nuts. No. 978,501; Dec. 13; Sp. p. 2342; Gaz. vol. 161; p. 404.
Spillane, Thomas. (See Temple, William S., assignor.)
Spillane, Thomas, New Bethlehem, Pa. Method of and apparatus for drawing glass. No. 962,925; June 28; Sp. p. 5640; Gaz. vol. 155; p. 987.
Spiller, Harry A., assignor to Brown-Binnian Company, Boston, Mass. Merchantable package of jar-sealing caps. No. 976,516; Nov. 22; Sp. p. 5373; Gaz. vol. 160; p. 911.
Spillers, Thomas J., Butler, Ga. Plow-line holder. No. 951,854; Mar. 15; Sp. p. 2839; Gaz. vol. 152; p. 517.
Spindler, Joseph M., Shakopee, Minn. Coin-controlled apparatus. No. 969,914; Sept. 13; Sp. p. 1661; Gaz. vol. 158; p. 287.
Spinner, Andrew E., Morgan City, La. Make-up cabinet for theatrical use. No. 960,596; June 7; Sp. p. 726; Gaz. vol. 155; p. 120.
Spinney, Burton A., Atlantic, Iowa. Hay-loader. No. 952,847; Mar. 22; Sp. p. 4892; Gaz. vol. 152; p. 880.
Spinney, Burton A., Atlantic, Iowa. Cloth-holder. No. 955,219; Apr. 19; Sp. p. 3289; Gaz. vol. 153; p. 588.
Spirella Company, The. (See Gilbert, Henry W., assignor.)
Spirella Company, The. (See Gilbert and Martin, assignors.)
Spirlet, Xavier de, Brussels, Belgium. Furnace for roasting ores. No. 979,349; Dec. 20; Sp. p. 4172; Gaz. vol. 161; p. 720.
Spiro, Charles, New York, N. Y. Type-writer-carriage mechanism. No. 953,559; Mar. 29; Sp. p. 6408; Gaz. vol. 152; p. 1148.
Spiro, Charles, New York, N. Y. Paper-file. No. 956,216; Apr. 26; Sp. p. 5502; Gaz. vol. 153; p. 960.
Spiro, Charles and W. J., New York, N. Y. Tabulating mechanism for type-writers. No. 953,560; Mar. 29; Sp. p. 6412; Gaz. vol. 152; p. 1149.
Spiro, Walter J. (See Spiro, Charles and W. J.)
Spitsnagle, Simon P., Greensburg, Pa. Collapsible and folding barrel. No. 975,900; Nov. 15; Sp. p. 4012; Gaz. vol. 160; p. 676.
Spitzenberg, Frank, New York, assignor, by mesne assignments, of one-half to M. E. Spitzenberg, trustee, Brooklyn, N. Y. Siphon-bottle. No. 956,443; Apr. 26; Sp. p. 5793; Gaz. vol. 153; p. 1037.
Spitzenberg, Marion E., trustee. (See Spitzenberg, Frank, assignor.)
Spitzfaden, Bernard. (See Marx, Charles O., assignor.)
Spitznagel, Alfred C., Springfield, Mo. Wall structure. No. 952,374; Mar. 15; Sp. p. 3848; Gaz. vol. 152; p. 689.
Spivey, Thomas S., assignor to The Victor Safe & Lock Company, Cincinnati, Ohio. Vault and strong-room door. No. 954,547; Apr. 12; Sp. p. 1813; Gaz. vol. 153; p. 325.
Spohrer, Gregory J., Franklin, Pa. Air-pump. No. 975,473; Nov. 15; Sp. p. 3112; Gaz. vol. 160; p. 531.
Spokane Automatic Seat Company. (See Winans, Wesley G., assignor.)
Sponenbarger, George V., Blackwell, Okla. Filter. No. 945,989; Jan. 11; Sp. p. 2191; Gaz. vol. 150; p. 363.
Spoon, William L., Coble township, Alamance county, N. C. Press for baling fibrous material. No. 963,823; July 12; Sp. p. 1775; Gaz. vol. 156; p. 294.
Spoon, William L., Coble township, Alamance county, N. C. Bale and bale-trunk. No. 963,955; July 12; Sp. p. 2055; Gaz. vol. 156; p. 337.
Spoor, Robert C., assignor of one-half to R. M. French, Hastings, Colo. Signal. No. 945,629; Jan. 4; Sp. p. 1335; Gaz. vol. 150; p. 207.
Spore, Charles R., Jr., and J. B. Lang, Moberly, Mo. Tire-securing device. No. 975,901; Nov. 15; Sp. p. 4013; Gaz. vol. 160; p. 676.
Spott, Louis H., *et al.* (See Van Sant, William S., assignor.)
Sprado, Carl G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Regulating device. No. 954,057; Apr. 5; Sp. p. 750; Gaz. vol. 153; p. 131.
Sprado, Carl G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Gas-engine. No. 961,079; June 7; Sp. p. 1701; Gaz. vol. 155; p. 282.
Sprado, Carl G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Valve. No. 966,867; Aug. 9; Sp. p. 2243; Gaz. vol. 157; p. 369.
Sprague, Arthur W., La Grange, assignor to American Steel & Wire Company, Chicago, Ill. Fence-post. No. 960,597; June 7; Sp. p. 727; Gaz. vol. 155; p. 120.
Sprague, Arthur W., La Grange, and T. E. Mulroyan, De Kalb, assignors to American Steel & Wire Company, Chicago, Ill. Gate-latch. No. 950,307; Feb. 22; Sp. p. 5359; Gaz. vol. 151; p. 940.
Sprague, Arthur W., La Grange, and T. E. Mulroyan, De Kalb, assignors to American Steel & Wire Company, Chicago, Ill. Gate. No. 953,066; Mar. 29; Sp. p. 5338; Gaz. vol. 152; p. 982.
Sprague, Blaine L., Osseo, Wis. Bricklayer's glove. No. 945,818; Jan. 11; Sp. p. 1803; Gaz. vol. 150; p. 302.
Sprague Canning Machinery Company. (See Colbert, Clarence F., assignor.)
Sprague, Charles H., Newton, assignor to S. Sprague, Boston, Mass. Arc-lamp. No. 967,684; Aug. 16; Sp. p. 3921; Gaz. vol. 157; p. 673.
Sprague, Charles L., and C. A. Wilson, Buffalo Gap, S. D. Dust-scraper for elevating-graders. No. 950,874; Mar. 1; Sp. p. 870; Gaz. vol. 152; p. 140.
Sprague Electric Company. (See Libby, Sam H., assignor.)
Sprague, Frank, assignor to The Hillsdale Screen Company, Hillsdale, Mich. Window-screen. No. 972,481; Oct. 11; Sp. p. 2089; Gaz. vol. 159; p. 364.
Sprague, Frederick H., assignor of one-half to F. L. Grout, Orange, Mass. Trousers. No. 951,262; Mar. 8; Sp. p. 1610; Gaz. vol. 152; p. 288.
Sprague, George E., Champaign, Ill. Cultivator. No. 966,260; Aug. 2; Sp. p. 889; Gaz. vol. 157; p. 142.
Sprague, Nelson S., Chandler, assignor of one-half to C. N. Shelton, Agra, Okla. Cream-separator. No. 952,220; Mar. 15; Sp. p. 3549; Gaz. vol. 152; p. 638.
Sprague, Starbuck. (See Sprague, Charles H., assignor.)
Spratt, Charles, New Cross, and F. J. Shenton, Thornton Heath, England. Speed-indicator. No. 955,709; Apr. 19; Sp. p. 4367; Gaz. vol. 153; p. 754.
Spreen, Ernest, Minocqua, Wis. Supporting-base for anvils. No. 962,477; June 28; Sp. p. 4726; Gaz. vol. 155; p. 833.
Spreen, Ernest, Minocqua, Wis. Attachment for anvils. No. 962,478; June 28; Sp. p. 4727; Gaz. vol. 155; p. 833.
Sprenkel, Ward E., *et al.* (See Matthiessen, Conrad S., assignor.)
Sprenkle, George H., Hanover, Pa. Gravity level and angle-finder. No. 964,066; July 12; Sp. p. 2287; Gaz. vol. 156; p. 377.
Spring Bearing Truck Company. (See Olsen, Samuel N., assignor.)
Spring, Francis L., Townsend, Mass. Shingling-bracket. No. 953,981; Apr. 5; Sp. p. 589; Gaz. vol. 153; p. 106.
Spring, Herbert E., and W. H. Lockwood, Fitchburg, Mass. Paper-pulp screen. No. 951,032; Mar. 1; Sp. p. 1159; Gaz. vol. 152; p. 190.
Spring, Herbert E., and W. H. Lockwood, Fitchburg, Mass.; said Spring assignor to said Lockwood. Paper-pulp screen. No. 978,672; Dec. 13; Sp. p. 2721; Gaz. vol. 161; p. 464.
Spring, Joseph, Chicago, Ill. Gas flash-light. No. 972,278; Oct. 11; Sp. p. 1674; Gaz. vol. 159; p. 294.
Spring Tire Company. (See Magney, Joseph P., assignor.)
Springall, Walter A., San Antonio, Tex. Paper file and binder. No. 947,654; Jan. 25; Sp. p. 5907; Gaz. vol. 150; p. 981.
Springer, Benjamin F., McLean, Ill. End-gate fastener. No. 973,578; Oct. 25; Sp. p. 4545; Gaz. vol. 159; p. 792.
Springer, Frank W., Minneapolis, Minn. Igniting system for explosive-engines. No. 960,598; June 7; Sp. p. 727; Gaz. vol. 155; p. 120.
Springer, Frank W., Minneapolis, Minn. Explosive-engine. No. 980,134; Dec. 27; Sp. p. 5901; Gaz. vol. 161; p. 1008.
Springer, John, Trenton Junction, N. J. Friction-gearing. No. 977,483; Dec. 6; Sp. p. 126; Gaz. vol. 161; p. 21.
Springer, Lafayette, Wilkes-Barre, and J. F. Ballamy, Larksville, Pa. Car-arrester. No. 976,310; Nov. 22; Sp. p. 4935; Gaz. vol. 160; p. 841.
Springer, Otto J., Edwardsville, Ill. Subsoil-cultivator. No. 970,760; Sept. 20; Sp. p. 3481; Gaz. vol. 158; p. 596.
Springer, William H., *et al.* (See Hachmann, Frederick, assignor.)
Springett, Stephen, Owosso, Mich. Sleigh. No. 967,078; Aug. 9; Sp. p. 2689; Gaz. vol. 157; p. 441.
Sprinkle, Clarence C., Marion, Ind. Cord or rope holder. No. 948,709; Feb. 8; Sp. p. 1967; Gaz. vol. 151; p. 338.
Sprinkle, Clarence C., Marion, Ind. Condiment-holder. No. 968,890; Aug. 30; Sp. p. 6515; Gaz. vol. 157; p. 1135.
Sprint, John W., Boyce, assignor of one-half to J. A. Dewar, Millwood, Va. Fender. No. 970,967; Sept. 20; Sp. p. 3889; Gaz. vol. 158; p. 665.
Sprinzel, Hermann, assignor to F. Seibold and Brüder Grunbaum, Vienna, Austria-Hungary. Combined fan and sunshade. No. 946,078; Jan. 11; Sp. p. 2365; Gaz. vol. 150; p. 393.
Sproehnle, Frank J., Philadelphia, Pa. Rotary engine. No. 959,812; May 31; Sp. p. 7316; Gaz. vol. 154; p. 1239.
Sproul, Horace M., North Yakima, Wash. Land-leveler. No. 972,279; Oct. 11; Sp. p. 1676; Gaz. vol. 159; p. 294.
Sproul, Thomas J., Cheyenne, Wyo. Gripper. No. 963,087; July 5; Sp. p. 121; Gaz. vol. 156; p. 21.
Sproule, Robert F., London, England. Relief stamping or printing press. No. 968,430; Aug. 23; Sp. p. 5513; Gaz. vol. 157; p. 951.
Sprout, Waldron & Co. (See Snyder, Simon, assignor.)
Spruance, Daniel C., *et al.*, trustees. (See Blackmore, Henry S., assignor.)
Spruell, Jacob, *et al.* (See Jackson, James W., assignor.)
Spunar, Valentine M., East Pittsburg, Pa. Mathematical drawing instrument. No. 954,476; Apr. 12; Sp. p. 1666; Gaz. vol. 153; p. 301.
Spurgeon, Harry A. (See Humphrey and Spurgeon.)

Alphabetical list of patentees—Continued.

Spurling, Oliver C., assignor to Western Electric Company, Chicago, Ill. Apparatus for coating electric wires. No. 968,205; Aug. 23; Sp. p. 5055; Gaz. vol. 157; p. 872.
Spurr Addressing Machine Company. (See Spurr, Foster M., assignor.)
Spurr, Foster M., assignor to Spurr Addressing Machine Company, Boston, Mass. Feeding mechanism for cards or sheets. No. 978,231; Dec. 13; Sp. p. 1768; Gaz. vol. 161; p. 310.
Spurrier, John R. (See Auel and Spurrier.)
Spyer, Arthur. (See Rosenthal and Spyer.)
Spyker, Jacobus, Amsterdam, Netherlands. Elastic wheel. No. 969,304; Sept. 6; Sp. p. 319; Gaz. vol. 158; p. 52.
Spÿker, Jacobus, Amsterdam, Netherlands. Construction of elastic wheels. No. 972,725; Oct. 11; Sp. p. 2646; Gaz. vol. 159; p. 449.
Squadrilli, Eduardo, assignor of one-fourth to A. Arbid, New York, N. Y. Liquid-soap dispenser. No. 968,498; Aug. 23; Sp. p. 5660; Gaz. vol. 157; p. 975.
Square Deal Machine Co. (See Asbury, William, assignor.)
Squier, Arthur H., Philadelphia, Pa., assignor of eleven-fifteenths to The Air Cleaner Company. Cleaning apparatus. No. 961,816; June 21; Sp. p. 3270; Gaz. vol. 155; p. 583.
Squier, Arthur H., assignor to The Air Cleaner Company, Philadelphia, Pa. Vacuum-pump. No. 977,338; Nov. 29; Sp. p. 7177; Gaz. vol. 160; p. 1220.
Squire, William H., San Francisco, Cal. Puzzle. No. 953,012; Mar. 22; Sp. p. 5214; Gaz. vol. 152; p. 935.
Squires, Charles E., Cleveland, Ohio. Steam-trap. No. 959,636; May 31; Sp. p. 6936; Gaz. vol. 154; p. 1181.
Squires, Charles E., Cleveland, Ohio. Demonstrating apparatus for steam-traps. No. 979,716; Dec. 27; Sp. p. 4954; Gaz. vol. 161; p. 868.
Squires, Claude J., Three Rivers, Mich. Funnel. No. 979,807; Dec. 27; Sp. p. 5184; Gaz. vol. 161; p. 899.
St. Clair Air Brake Company. (See St. Clair, Augustus A., assignor.)
St. Clair, Augustus A., assignor to St. Clair Air Brake Company, Indianapolis, Ind. Air-brake. No. 976,224; Nov. 22; Sp. p. 4712; Gaz. vol. 160; p. 810.
St. Clair, George H., Lynn, assignor to Merrimac Mattress Manufacturing Company, Boston, Mass. Spring-mattress frame. No. 978,954; Dec. 20; Sp. p. 3302; Gaz. vol. 161; p. 584.
St. Francis, Napoleon, Chicopee Falls, Mass. Shock-absorber. No. 966,868; Aug. 9; Sp. p. 2244; Gaz. vol. 157; p. 369.
St. Germain, Oliver, assignor of one-third to L. K. Devlin, Havre, Mont. Signal-lantern. No. 965,960; Aug. 2; Sp. p. 234; Gaz. vol. 157; p. 39.
St. John, Carlisle, Des Moines, Iowa. Hot-air heating apparatus. No. 970,117; Sept. 13; Sp. p. 2087; Gaz. vol. 158; p. 355.
St. John, Charles P., deceased, Chicago, Ill., (J. A. Mills, executrix,) assignor of one-half to R. J. Ehlers, New York, N. Y. Washboard. No. 962,598; June 28; Sp. p. 4998; Gaz. vol. 155; p. 875.
St. John, Elmer D., Cleveland, Ohio. Piano pedal-action. No. 951,550; Mar. 8; Sp. p. 2215; Gaz. vol. 152; p. 384.
St. John, Gamaliel C. (See Pendleton, Frank E., assignor.)
St. John, Gamaliel C., and F. A. D. Rankins, New York, N. Y. Device for increasing heat. No. 973,581; Oct. 25; Sp. p. 4550; Gaz. vol. 159; p. 793.
St. John, Victor, Fairmont, Minn. Cutting-off tool. No. 976,755; Nov. 22; Sp. p. 5883; Gaz. vol. 160; p. 993.
St. Louis Car Company. (See Robinson, Edward T., assignor.)
St. Louis Frog & Switch Company. (See Einstein, Robert E., assignor.)
St. Onge, Walter J., assignor to The Dean Electric Company, Elyria, Ohio. Alarm system. No. 975,175; Nov. 8; Sp. p. 2492; Gaz. vol. 160; p. 403.
St. Paul Foundry Company. (See Allenson, John, assignor.)
St. Peter, William, Damar, Kans. Reach connection for vehicles. No. 952,380; Mar. 15; Sp. p. 3858; Gaz. vol. 152; p. 691.
St. Pierre, Joseph D., and E. C. Gauvin, Lowell, Mass. Ironing-board. No. 974,443; Nov. 1; Sp. p. 837; Gaz. vol. 160; p. 124.
St. Seine, Bernard de, Paris, France, assignor to Thwaites Brothers, Limited, Bradford, England. Smelting-furnace. No. 952,284; Mar. 15; Sp. p. 3686; Gaz. vol. 152; p. 659.
Staahlgren, Karl A. A., New York, N. Y. Inverted incandescent gas-burner. No. 970,275; Sept. 13; Sp. p. 2429; Gaz. vol. 158; p. 409.
Staats, Mary L. (See Staats, William H., assignor.)
Staats, William H., assignor to M. L. Staats, Colonie, N. Y. Coin-changer. No. 969,417; Sept. 6; Sp. p. 567; Gaz. vol. 158; p. 91.
Stacey, Charles. (See Froggatt and Stacey.)
Stacey, Frederick H., Montreal, Quebec, Canada. Collar. No. 971,700; Oct. 4; Sp. p. 396; Gaz. vol. 159; p. 69.
Stacey, Lyman S., Quincy, Mass. Stop-cock. No. 963,403; July 5; Sp. p. 889; Gaz. vol. 156; p. 131.
Stacey Manufacturing Company, The. (See Stoffels, Henry J., assignor.)
Stach, Gottlieb, Springfield, Ill. Pin-fastener. No. 950,031; Feb. 22; Sp. p. 4808; Gaz. vol. 151; p. 846.
Stackhouse, Henry R., Titusville, Pa. Gage. No. 968,996; Aug. 30; Sp. p. 6717; Gaz. vol. 157; p. 1170.
Stacy, Ely A., New York, N. Y. Hair-roll with comb-band attachment. No. 961,323; June 14; Sp. p. 2241; Gaz. vol. 155; p. 395.
Stacy, James N., Portland, Oreg., assignor of one-half to S. W. Coe, New York, N. Y. Memorandum case and register. No. 965,141; July 19; Sp. p. 4621; Gaz. vol. 156; p. 770.
Stacy, William, Devers, Tex. Colter. No. 959,637; May 31; Sp. p. 6938; Gaz. vol. 154; p. 1182.
Stadelmann, Ignatius J., Los Angeles, Cal. Pneumatic spring. No. 979,044; Dec. 20; Sp. p. 3511; Gaz. vol. 161; p. 615.
Stadermann, Albert L., Terre Haute, Ind. Insulator. No. 954,596; Apr. 12; Sp. p. 1921; Gaz. vol. 153; p. 341.
Stadler, Charles H., New York, N. Y. Steam rendering-tank and press. No. 948,258; Feb. 1; Sp. p. 975; Gaz. vol. 151; p. 160.
Stadt, William, and W. Veltman, Grand Rapids, Mich. Window-cleaner. No. 975,474; Nov. 15; Sp. p. 3116; Gaz. vol. 160; p. 532.
Stadtmuller, Max F., Pierre, S. D. Door-fastener. No. 979,218; Dec. 20; Sp. p. 3926; Gaz. vol. 161; p. 677.
Staebler, Daniel S., Galva, Ill. Game apparatus. No. 946,709; Jan. 18; Sp. p. 3784; Gaz. vol. 150; p. 633.
Staehle, Reinold, Mount Vernon, N. Y. Soldering-tool. No. 979,896; Dec. 27; Sp. p. 5371; Gaz. vol. 161; p. 929.
Staff, Peter N. (See Richardson, Harvey J., assignor.)
Stafford, Allen W., Iola, Kans. Automatic fire-alarm. No. 947,423; Jan. 25; Sp. p. 5385; Gaz. vol. 150; p. 902.
Stafford, Charles J. (See Morrison, Joseph T., assignor.)
Stafford, Charles S., assignor to Mone R. Isaacs, Philadelphia, Pa. Box. No. 958,707; May 17; Sp. p. 4959; Gaz. vol. 154; p. 815.
Stafford Company, The. (See Barrett, Edwin W., assignor.)
Stafford Company, The. (See Jackson, Simeon S., assignor.)
Stafford, George A., Belcherville, Tex. Vapor and steam burner. No. 967,991; Aug. 23; Sp. p. 4560; Gaz. vol. 157; p. 800.
Stafford, Hal R. (See Cole and Stafford.)
Stafford, James T., New York, N. Y. Toy. No. 959,638; May 31; Sp. p. 6939; Gaz. vol. 154; p. 1182.
Stafford, John A., Grady, Okla. Buggy-bow rest. No. 973,718; Oct. 25; Sp. p. 4846; Gaz. vol. 159; p. 843.
Stafford, Nelson, New York, N. Y. Pencil-sharpener. No. 967,257; Aug. 16; Sp. p. 3058; Gaz. vol. 157; p. 530.
Stafford, Richard E., and A. F. Lott, Walla Walla, Wash. Ram. No. 964,128; July 12; Sp. p. 2426; Gaz. vol. 156; p. 398.
Stagg, Thomas H., assignor to The Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Wheeled scraper. No. 960,052; May 31; Sp. p. 7888; Gaz. vol. 154; p. 1324.
Stahl, Charles H., assignor to American Narrow Fabric Company, Worcester, Mass. Clasp. No. 970,567; Sept. 20; Sp. p. 3038; Gaz. vol. 158; p. 529.
Stahl, Daniel. (See Stephany, Ludwig, assignor.)
Stahl, John P., Johnstown, Pa. Weather-strip. No. 954,896; Apr. 12; Sp. p. 2645; Gaz. vol. 153; p. 448.
Stahl, Joseph F., New York, N. Y. Explosive-engine. No. 950,162; Feb. 22; Sp. p. 5065; Gaz. vol. 151; p. 889.
Stahl, Rudolph, and T. H. Hunter, Philadelphia, Pa. Bolt and nut. No. 947,602; Jan. 25; Sp. p. 5797; Gaz. vol. 150; p. 963.
Stahn, Albert. (See Rebentisch, Friedrich A., assignor.)
Stake, John W., Indianapolis, Ind. Harness-hanger. No. 955,710; Apr. 19; Sp. p. 4370; Gaz. vol. 153; p. 755.
Staley, Harrison L., assignor to Staley Manufacturing Company, Martinsville, Ind. Washing-machine gearing. No. 958,189; May 17; Sp. p. 3787; Gaz. vol. 154; p. 640.
Staley, Judson J. (See Bartlett and Staley.)
Staley Manufacturing Company. (See Staley, Harrison L., assignor.)
Staley, Paul A. (See Krotz, Alvaro S., assignor.)
Staley, Thomas C., Portland, Oreg. Window-sash lock. No. 947,950; Feb. 1; Sp. p. 361; Gaz. vol. 151; p. 58.
Stalford, Frederick D., Frederick, Okla. Crude-oil burner. No. 949,133; Feb. 15; Sp. p. 2856; Gaz. vol. 151; p. 505.
Stålhane, Otto. (See Grönwall, Lindblad, and Stålhane.)
Stalker, Neil S. (See Murray, Daniel D., assignor.)
Stall, Walter T., *et al.* (See Hartman, Joseph, assignor.)
Stallings, E. A., *et al.* (See Noland, William H., assignor.)
Stallings, James, Fairmount, Ill. Spring-wheel. No. 972,280; Oct. 11; Sp. p. 1678; Gaz. vol. 159; p. 295.
Stallings, Jeremiah W., Lafayette, Ala. Plow. No. 953,867; Apr. 5; Sp. p. 369; Gaz. vol. 153; p. 66.
Stallings, Samuel, Fountain Inn, S. C. Cotton-chopper. No. 970,968; Sept. 20; Sp. p. 3890; Gaz. vol. 158; p. 665.
Stallman, Ferdinand G., San Francisco, Cal. Type-writing machine. No. 966,714; Aug. 9; Sp. p. 1864; Gaz. vol. 157; p. 319.
Stallman, Ferdinand G., San Francisco, Cal. Type-writer carriage. No. 966,715; Aug. 9; Sp. p. 1885; Gaz. vol. 157; p. 319.

Alphabetical list of patentees—Continued.

Stallman, Ferdinand G., San Francisco, Cal. Feed mechanism for type-writer carriages. No. 966,779; Aug. 9; Sp. p. 2055; Gaz. vol. 157; p. 342.
Stallman, George E., Fort Sam Houston, Tex. Tooth. No. 965,246; July 26; Sp. p. 4841; Gaz. vol. 156; p. 837.
Stam, William H., Verdi, Nev. Tackle-block. No. 968,811; Aug. 30; Sp. p. 6355; Gaz. vol. 157; p. 1108.
Stambaugh, George W., assignor to Mills Novelty Company, Chicago, Ill. Coupon-delivery machine. No. 976,517; Nov. 22; Sp. p. 5374; Gaz. vol. 160; p. 912.
Stambaugh, William B., Woodsboro, Md. Portable wire-fence post. No. 963,659; July 5; Sp. p. 1390; Gaz. vol. 156; p. 216.
Stamets, Zeanith H., Auburn, Ind. Filtering apparatus for purifying gasolene and other liquid fuels. No. 972,281; Oct. 11; Sp. p. 1679; Gaz. vol. 159; p. 295.
Stamets, Zeanith H., Auburn, Ind. Liquid-fuel purifier and gaged governor. No. 972,282; Oct. 11; Sp. p. 1682; Gaz. vol. 159; p. 295.
Stamey, De Keller, New York, N. Y. Locking device for valises. No. 976,706; Nov. 22; Sp. p. 5762; Gaz. vol. 160; p. 976.
Stamm, Charles, assignor of one-third to J. Falbe, Milwaukee, Wis. Electric igniting device for gas-stoves. No. 969,993; Sept. 13; Sp. p. 1839; Gaz. vol. 158; p. 313.
Stamm, Charles H., assignor of one-half to J. H. Panabaker, Kokomo, Ind. Spirit-level. No. 967,258; Aug. 16; Sp. p. 3061; Gaz. vol. 157; p. 530.
Stamm, Frederick, deceased, (C. L. Marshall, executor,) and J. H. Weichel, Lancaster, Pa.; said Weichel assignor to said Stamm. Machine for paring cocoanuts. No. 952,998; Mar. 22; Sp. p. 5176; Gaz. vol. 152; p. 929.
Stamm, Henry, Rentzschmühle, near Greiz, Germany. Perfecting-machine. No. 973,312; Oct. 18; Sp. p. 3965; Gaz. vol. 159; p. 679.
Stamm, Louis B., Antioch, Cal. Lasting-machine. No. 954,355; Apr. 5; Sp. p. 1398; Gaz. vol. 153; p. 232.
Stamm, Norman A., Glendora, Cal. Water-motor. No. 973,823; Oct. 25; Sp. p. 5050; Gaz. vol. 159; p. 878.
Stammler, Scott, Grandville, Ohio. Metallic tie and rail-fastener. No. 975,902; Nov. 15; Sp. p. 4014; Gaz. vol. 160; p. 677.
Stamp, Joseph, Waterval Boven, Transvaal. Safety-catch. No. 946,284; Jan. 11; Sp. p. 2800; Gaz. vol. 150; p. 466.
Stamper, Elbridge G., assignor to The Paducah Sterilizer Mfg. Co., Paducah, Ky. Combined sterilizer and water-heater. No. 963,726; July 5; Sp. p. 1532; Gaz. vol. 156; p. 239.
Stanbon, Charles P., Lynn, Mass. Leather-punching machine. No. 955,711; Apr. 19; Sp. p. 4372; Gaz. vol. 153; p. 755.
Stanbon, Charles P., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Insole-reinforcing machine. No. 945,348; Jan. 4; Sp. p. 749; Gaz. vol. 150; p. 115.
Stanbon, Charles P., Lynn, assignor to T. G. Plant, Boston, Mass. Sole-rounding machine. No. 958,024; May 17; Sp. p. 3341; Gaz. vol. 154; p. 582.
Stanbon, Charles P., Lynn, assignor to T. G. Plant, Boston, Mass. Welt-preparing machine. No. 966,484; Aug. 9; Sp. p. 1360; Gaz. vol. 157; p. 241.
Stanbon, Charles P., Lynn, assignor to T. G. Plant, Boston, Mass. Machine for compressing top-lifts. No. 966,485; Aug. 9; Sp. p. 1364; Gaz. vol. 157; p. 241.
Stancliff, George W., assignor to Stancliff Well Screen and Mfg. Company, Houston, Tex. Notching attachment for wire-winding machines. No. 961,038; June 7; Sp. p. 1606; Gaz. vol. 155; p. 269.
Stancliff Well Screen and Mfg. Company. (See Stancliff, George W., assignor.)
Standard Arms Company. (See Smith, Morris F., assignor.)
Standard Auto Accessory Mfg. Company. (See Bertram and Lamoreaux, assignors.)
Standard Car Truck Company. (See Barber, John C., assignor.)
Standard Chain Company. (See Hoff, Carlton L., assignor.)
Standard Chain Company. (See Hoff and Rehfuss, assignors.)
Standard Compound Company. (See Sleicher, Charles A., assignor.)
Standard Computing Scale Company, The. (See Buckingham, Fremont H., assignor.)
Standard Computing Scale Company. (See Jaenichen, Louis, assignor.)
Standard Computing Scale Company. (See King, Bert W., assignor.)
Standard Computing Wagon Scales Company. (See Boling, Samuel M., assignor.)
Standard Coupler Company. (See Gallagher, Richard D., Jr., assignor.)
Standard Earth Auger Company. (See Chase, Frank H., assignor.)
Standard Electric Fittings Company, The. (See Church, Lewis H., assignor.)
Standard Electro-Utilities Company. (See Linder, Oscar, assignor.)
Standard Electro-Utilities Company. (See Small, Ralph D., assignor.)
Standard Elevator Interlock Company. (See Muckle, John S., assignor.)
Standard Elevator Interlock Company. (See Straley, Thomas H., assignor.)
Standard Engineering Company, The. (See Hare, Wilfred A., assignor.)
Standard Fuel Company. (See Davis, Theodore, assignor.)
Standard Gear Grinding Co. (See Wagner, William F., assignor.)
Standard Hygienic Cooler Company. (See Purfurst, Lewis, assignor.)
Standard Machine Company. (See Houseman, Harry A., assignor.)
Standard Manufacturing Company, The. (See Brucker and Love, assignors.)
Standard Meter Company, The. (See Viney, Frederick C., assignor.)
Standard Oil Company. (See Black, John C., assignor.)
Standard Oil Company. (See Frasch, Herman, assignor.)
Standard Oil Company. (See Robinson, Clarence I., assignor.)
Standard Oil Company of New York. (See Ellis, Clifford A., assignor.)
Standard Optical Company, The. (See Gray, Hobart H., assignor.)
Standard Optical Company, The. (See Howland, Chauncey W., assignor.)
Standard Sanitary Manufacturing Company. (See Marschuetz and Probst, assignors.)
Standard Separator Company. (See Shaw, Charles H., assignor.)
Standard Sewing Machine Company, The. (See Diehl, Jacob, assignor.)
Standard Steel Car Company. (See Christianson, Andrew, assignor.)
Standard Steel Car Company. (See Hansen, John M., assignor.)
Standard Steel Works Company, The. (See Andrews, Aaron K., assignor.)
Standard Stopper Company. (See Mueller and Gwinn, assignors.)
Standard Supply and Manufacturing Company, The. (See Dorsey, Parmer, assignor.)
Standard Supply and Manufacturing Company, The. (See Hadlock, Clark W., assignor.)
Standard Tin Plate Company. (See Warden, Alva F., assignor.)
Standard Tool Company, The. (See Ryder, Sumner G., assignor.)
Standard Traction Brake Company. (See Clark, Francis L., assignor.)
Standard Turpentine and Pulp Company. (See Saylor, Benjamin F. A., assignor.)
Standard Typewriter Company. (See Rose, Frank S., assignor.)
Standard Underground Cable Company. (See Davis, Charles W., assignor.) (Reissue.)
Standard Underground Cable Company. (See Fisher, Henry W., assignor.)
Standard Ventilator Company. (See Meixell, John W., assignor.)
Standard Water Meter Company, The. (See Bangerter, Fred, assignor.)
Standard Well Drilling & Prospecting Company. (See Rea, John T., assignor.)
Standen, Alfred E., Chicago, Ill. Measuring system and means therefor. No. 946,471; Jan. 11; Sp. p. 3299; Gaz. vol. 150; p. 530.
Stanecky, Emil and L. H., Chicago, Ill. Window. No. 954,356; Apr. 5; Sp. p. 1404; Gaz. vol. 153; p. 232.
Stanecky, Lea H. (See Stanecky, Emil and L. H.)
Stanek, Frank F., Howell, Nebr. Horseshoe. No. 976,408; Nov. 22; Sp. p. 5157; Gaz. vol. 160; p. 875.
Stanford, Arthur D., Buffalo, N. Y. Locking and signaling device. No. 979,808; Dec. 27; Sp. p. 5186; Gaz. vol. 161; p. 899.
Stanford, Arthur L., Chicago, Ill. Draft-gear. No. 954,058; Apr. 5; Sp. p. 751; Gaz. vol. 153; p. 131.
Stanford, Arthur L., Chicago, Ill., assignor to The Rail Joint Company, New York, N. Y. One-piece rail-joint. No. 951,383; Mar. 8; Sp. p. 1878; Gaz. vol. 152; p. 328.
Stanford, Arthur L., Chicago, Ill., assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 957,121; May 3; Sp. p. 1325; Gaz. vol. 154; p. 211.
Stang, Walter A., Lorain, Ohio. Pan-lifter. No. 946,568; Jan. 18; Sp. p. 3489; Gaz. vol. 150; p. 587.
Stangee, Fred W. (See Manz, Felix, assignor.)
Stanhope, Philip R., Denver, Colo. Ore-screen. No. 976,943; Nov. 29; Sp. p. 6323; Gaz. vol. 160; p. 1083.
Stankiewicz, Tadius J., Chicago Heights, Ill. Automatic fire-extinguisher system. No. 971,089; Sept. 27; Sp. p. 4159; Gaz. vol. 158; p. 734.
Stanley, David R., Maine Prairie, Minn. Pneumatic coupling. No. 978,071; Dec. 6; Sp. p. 1393; Gaz. vol. 161; p. 224.
Stanley Electric Manufacturing Company. (See Dallam, John C., assignor.)
Stanley, Frank, Newcastle, Ind. Casket-lid hinge. No. 948,618; Feb. 8; Sp. p. 1779; Gaz. vol. 151; p. 306.

Stanley, Frank A., Little Rock, Ark. Stop and drain cock. No. 978,952; Dec. 20; Sp. p. 3298; Gaz. vol. 161; p. 583.
Stanley, Frank C. (See Gabrielson and Stanley.)
Stanley, Frank E., Bellingham, Wash. Purse. No. 952,375; Mar. 15; Sp. p. 3850; Gaz. vol. 152; p. 689.
Stanley, George P. (See Tainter and Stanley.)
Stanley, Harry F., assignor of one-half to The Farringdon Works and H. Pontifex and Sons, Limited, London, England. Apparatus for chilling and carbonating beer and the like. No. 955,108; Apr. 12; Sp. p. 3037; Gaz. vol. 153; p. 515.
Stanley, James, Newark, N. J. Buckle. No. 946,884; Jan. 18; Sp. p. 4221; Gaz. vol. 150; p. 694.
Stanley, James, assignor of one-half to F. Brabson, Newark, N. J. Overshoe for horseshoes. No. 965,663; July 26; Sp. p. 5765; Gaz. vol. 156; p. 981.
Stanley, John C. W., Santa Cruz, assignor of one-half to D. H. McEwen, Burlingame, and one-half to F. B. Wilson, San Francisco, Cal. Manufacture of wood pulp. No. 968,278; Aug. 23; Sp. p. 5217; Gaz. vol. 157; p. 898.
Stanley, John O. (See Perkins, Stanley, Putnam, and Montgomery.)
Stanley, Lucean B., Collinwood, Ohio. Trolley-retractor. No. 978,953; Dec. 20; Sp. p. 3300; Gaz. vol. 161; p. 583.
Stanley, Nathan M., Dayton, Ohio. Attaching metallic characters to leather and the like. No. 961,550; June 14; Sp. p. 2714; Gaz. vol. 155; p. 471.
Stanley, Roy G., Clyde, Ohio. Means for automatically controlling lamps on vehicles. No. 957,010; May 3; Sp. p. 1111; Gaz. vol. 154; p. 174.
Stanley Rule & Level Company, The. (See Bodmer, Christian, assignor.)
Stanley Rule & Level Company. (See Bodmer and Burdick, assignors.)
Stanley Rule & Level Company, The. (See Richards, Hubert P., assignor.)
Stanley Rule & Level Company, The. (See Schade, Edmund A., assignor.)
Stanley, Thomas H., Denver, Colo. Concrete timbering for tunnels. No. 975,084; Nov. 8; Sp. p. 2276; Gaz. vol. 160; p. 372.
Stanley, William, Great Barrington, Mass., assignor to General Electric Company. Compounding alternating-current circuits. No. 946,829; Jan. 18; Sp. p. 4080; Gaz. vol. 150; p. 675.
Stanley, William, Great Barrington, Mass., assignor to General Electric Company. Electric heating-receptacle. No. 976,944; Nov. 29; Sp. p. 6325; Gaz. vol. 160; p. 1034.
Stanley Works, The. (See Holtzhouser, Jacob P., assignor.)
Stansill, Adger C., C. H. Doty, and F. W. Hubbard, assignors to The Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Dump-car lock. No. 973,229; Oct. 18; Sp. p. 3809; Gaz. vol. 159; p. 651.
Stanton, Charles E. (See Fischer and Stanton.)
Stanton, Ernest F., Wellington, Tex. Crude-oil burner. No. 964,457; July 12; Sp. p. 3072; Gaz. vol. 156; p. 505.
Stanton, Gay A., Union City, Mich. Checkrein-holder. No. 957,580; May 10; Sp. p. 2298; Gaz. vol. 154; p. 399.
Stanton, John P. (See Yeager, John E., assignor.)
Stanton, John R., F. M. D'Arsi, New York, N. Y., and W. F. Munzer, West Hoboken, N. J. Self-lighting gas-burner. No. 972,938; Oct. 18; Sp. p. 3157; Gaz. vol. 159; p. 551.
Stanton, Mary L., Newton, Mass. Buttonhole-guide. No. 959,639; May 31; Sp. p. 6940; Gaz. vol. 154; p. 1182.
Stanton, Travis W., Pollard, Ala. Cooking utensil. No. 952,848; Mar. 22; Sp. p. 4893; Gaz. vol. 152; p. 881.
Stanton, Walter D., New York, N. Y. Indicator. No. 955,712; Apr. 19; Sp. p. 4379; Gaz. vol. 153; p. 755.
Stanway, William, assignor to G. Middlebrook and A. E. Hill, London, England. Brick wall and the like. No. 971,159; Sept. 27; Sp. p. 4299; Gaz. vol. 158; p. 756.
Stanwerke, A. G. (See Büchler, Hans, assignor.)
Stanwood, Frank H., Baldwinsville, Mass. Step or tread. No. 961,176; June 14; Sp. p. 1887; Gaz. vol. 155; p. 343.
Stanza, John P., Eaton, Ohio. Cultivator-shovel. No. 976,518; Nov. 22; Sp. p. 5377; Gaz. vol. 160; p. 912.
Stapf, Charles F. (See Perry and Stapf.)
Staples, Albert F., Alliance, Ohio, and C. W. Potter, Boston, Mass., assignors to The McCaskey Register Co. Account-register. (Reissue.) No. 13,091; Mar. 8; Sp. p. 2702; Gaz. vol. 152; p. 466.
Staples, George B., Philadelphia, Pa. Stair-nosing and the like. No. 966,133; Aug. 2; Sp. p. 601; Gaz. vol. 157; p. 99.
Staples, John A., Newburgh, N. Y. Valve. No. 949,851; Feb. 22; Sp. p. 4330; Gaz. vol. 151; p. 780.
Staples, John A., Newburgh, N. Y. Valve. No. 949,852; Feb. 22; Sp. p. 4337; Gaz. vol. 151; p. 780.
Staples, John A., Newburgh, N. Y. Flushing apparatus. No. 949,853; Feb. 22; Sp. p. 4339; Gaz. vol. 151; p. 781.
Staples, John A., Newburgh, N. Y. Valve mechanism. No. 949,854; Feb. 22; Sp. p. 4345; Gaz. vol. 151; p. 781.
Staples, Joseph W., Dixon, Ill. Joint fastener and tightener. No. 973,144; Oct. 18; Sp. p. 3605; Gaz. vol. 159; p. 621.
Staples, William. (See Hanes and Staples.)
Stapleton, John T., Jersey City, assignor to Sanitary Receptacle Top Co., Ltd., Newark, N. J. Salt and pepper holder. No. 963,333; July 5; Sp. p. 743; Gaz. vol. 156; p. 107.
Stapley, William S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Tire-pump. No. 947,513; Jan. 25; Sp. p. 5619; Gaz. vol. 150; p. 933.
Stapley, William S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Grease-gun. No. 949,163; Feb. 15; Sp. p. 2908; Gaz. vol. 151; p. 515.
Stapley, William S., assignor to The Coe-Stapley Manufacturing Company, Bridgeport, Conn. Tire-pump. No. 959,894; May 31; Sp. p. 7502; Gaz. vol. 154; p. 1267.
Stapp, Frederick, Denver, Colo. Heating device for orchards. No. 967,259; Aug. 16; Sp. p. 2062; Gaz. vol. 157; p. 530.
Star Brass Manufacturing Company. (See Webster, George A., assignor.)
Star Carburetor and Supply Company. (See Howarth, Albert, assignor.)
Star Drilling Machine Company, The. (See Stevens, William C., assignor.)
Star Electric Company. (See Doughty and Beach, assignors.)
Star Manufacturing Company. (See Smith, Henry A., assignor.)
Star Milk Cooler Company. (See Heulings, Samuel M., assignor.)
Star Miter Machine Company. (See Peterson, Fritz, assignor.)
Star, Richard, New York, N. Y. Apparatus for indicating the speed of ships. No. 955,008; Apr. 12; Sp. p. 2858; Gaz. vol. 153; p. 485.
Star Rubber Company. (See Farnam, George D., assignor.)
Star Storm Front Company, The. (See Scott, George W., assignor.)
Star Tool Manufacturing Company, The. (See Colthar and Pfeifer, assignors.)
Starbuck, Calvin T., Birmingham, Ala. Screw-jack. No. 969,215; Sept. 6; Sp. p. 155; Gaz. vol. 158; p. 25.
Staren, Joseph, Chicago, Ill. Sign. No. 959,895; May 31; Sp. p. 7504; Gaz. vol. 154; p. 1268.
Staren, Joseph, Chicago, Ill. Portable sign. No. 959,896; May 31; Sp. p. 7505; Gaz. vol. 154; p. 1268.
Stark, Charles W., Mountain Lake, Minn. Combined grass-grubber and cultivator. No. 975,173; Nov. 8; Sp. p. 2487; Gaz. vol. 160; p. 402.
Stark, Emil G., Chemnitz, Germany. Treating brittle vegetable fibers. No. 962,173; June 21; Sp. p. 4066; Gaz. vol. 155; p. 706.
Stark, George L., and A. W. Baxter, Los Angeles, Cal. Meat-holder. No. 974,199; Nov. 1; Sp. p. 213; Gaz. vol. 160; p. 35.
Stark, George L., and A. W. Baxter, Los Angeles, Cal. Skewer. No. 974,200; Nov. 1; Sp. p. 215; Gaz. vol. 160; p. 36.
Stark, George T., Louisville, Ky. Stop-cock. No. 953,067; Mar. 29; Sp. p. 5339; Gaz. vol. 152; p. 982.
Stark, John. (See Haldy, Henri, assignor.)
Stark, John M., and T. L. Turner, assignors to Bottlers' Seal Company, New York, N. Y. Machine for applying caps to bottles. No. 958,333; May 17; Sp. p. 4236; Gaz. vol. 154; p. 691.
Stark, William, *et al.* (See Chartener, Victor, assignor.)
Starkey, William C., North East, Pa. Trolley-retriever. No. 969,994; Sept. 13; Sp. p. 1841; Gaz. vol. 158; p. 313.
Starkweather, James A., and O. W. Nottingham, Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 974,999; Nov. 8; Sp. p. 2109; Gaz. vol. 160; p. 343.
Starmer, Harry G., and W. Tapio, Jersey City, N. J. Toy. No. 955,009; Apr. 12; Sp. p. 2862; Gaz. vol. 153; p. 485.
Starr Bros. Bell Co., The. (See Kidney, Josiah R., assignor.)
Starr, Charles M., South Bend, Ind. Cement-brick press. No. 965,247; July 26; Sp. p. 4842; Gaz. vol. 156; p. 837.
Starr, Charles M., South Bend, Ind. Carrier for bicycles. No. 975,085; Nov. 8; Sp. p. 2278; Gaz. vol. 160; p. 372.
Starr, George A., Falls City, Oreg. Pump. No. 961,039; June 7; Sp. p. 1610; Gaz. vol. 155; p. 269.
Starr, Jesse W., 3d. (See Pierce, Edward W., assignor.)
Starr, John E., New York, N. Y. Refrigerating apparatus. No. 967,992; Aug. 23; Sp. p. 4561; Gaz. vol. 157; p. 800.
Starr, John H., assignor to E. A. Mallory and Sons, Incorporated, Danbury, Conn. Nap-regulating attachment for clipping-machines. No. 952,475; Mar. 22; Sp. p. 4069; Gaz. vol. 152; p. 752.
Starr, Joseph, New London, Conn. Coin-operated vending-machine. No. 957,720; May 10; Sp. p. 2583; Gaz. vol. 154; p. 447.
Starr, William H., Denver, Colo. Tile-marker. No. 959,269; May 24; Sp. p. 6181; Gaz. vol. 154; p. 1032.
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Floor-scraper. No. 966,962; Aug. 9; Sp. p. 2434; Gaz. vol. 157; p. 400.
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Screw-clamp. No. 970,568; Sept. 20; Sp. p. 3039; Gaz. vol. 158; p. 529.

Alphabetical list of patentees—Continued.

Stary, Emil P., Cedar Rapids, Iowa. Automatic flushing-tank. No. 969,305; Sept. 6; Sp. p. 321; Gaz. vol. 158; p. 53.
State, Will C. (See Seiberling and State.)
Staub & Co. (See Staub, Heinrich, assignor.)
Staub, Frank X., Fort Wayne, Ind., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephone system. No. 977,142; Nov. 29; Sp. p. 6782; Gaz. vol. 160; p. 1153.
Staub, Heinrich, Zurich, assignor to Staub & Co., Mämedorf, Switzerland. Outer cover for pneumatic tires. No. 953,303; Mar. 29; Sp. p. 5855; Gaz. vol. 152; p. 1058.
Staude, Edwin G., Minneapolis, Minn. Machine for making box-blanks. No. 955,713; Apr. 19; Sp. p. 4381; Gaz. vol. 153; p. 756.
Staude, Edwin G., Minneapolis, Minn. Stacking and counting mechanism for flexible box-blanks. No. 961,263; June 14; Sp. p. 2070; Gaz. vol. 155; p. 373.
Staude, Edwin G., Minneapolis, Minn. Sectional color-press and blanker. No. 969,418; Sept. 6; Sp. p. 570; Gaz. vol. 158; p. 91.
Staude, Edwin G., Minneapolis, Minn., assignor to E. G. Staude Manufacturing Company. Machine for making flexible boxes. No. 948,710; Feb. 8; Sp. p. 1969; Gaz. vol. 151; p. 338.
Stauffer, Adolf, Zurich, Switzerland. Spirit-level for measuring angles and inclinations. No. 946,472; Jan. 11; Sp. p. 3300; Gaz. vol. 150; p. 530.
Stauffer, B. Grant, *et al.* (See Horting, Levi W., assignor.)
Stauffer, Charles F., *et al.* (See Horting, Levi W., assignor.)
Stauffer, John T., Yates Center, Kans. Sulky-rake attachment. No. 964,577; July 19; Sp. p. 3387; Gaz. vol. 156; p. 579.
Stauffer, Milton J., Ringtown, Pa. Belt-tightening device. No. 948,078; Feb. 1; Sp. p. 625; Gaz. vol. 151; p. 101.
Stauffer, Samuel D., Lancaster, Pa. Radiator. No. 962,061; June 21; Sp. p. 3793; Gaz. vol. 155; p. 666.
Stauffiger, Charles J., Buffalo, N. Y. Bottle-stopper. No. 974,444; Nov. 1; Sp. p. 839; Gaz. vol. 160; p. 124.
Staunton, Gray, Evanston, Ill. Vacuum-pump. No. 972,939; Oct. 18; Sp. p. 3159; Gaz. vol. 159; p. 551.
Stauwerke A. G. (See Büchler, Hans, assignor.)
Stawartz, John J., assignor of one-third to J. J. McCague and one-third to J. Uhrin, Homestead, Pa. Automobile-brake. No. 960,426; June 7; Sp. p. 379; Gaz. vol. 155; p. 64.
Stayman, David F., Baltimore, Md. Packing. No. 950,519; Mar. 1; Sp. p. 127; Gaz. vol. 152; p. 21.
Stayman, David F., New York, N. Y. Piston-valve. No. 974,534; Nov. 1; Sp. p. 1061; Gaz. vol. 160; p. 158.
Staymates, Samuel G., Wall, Pa. Mail-catcher. No. 957,581; May 10; Sp. p. 2299; Gaz. vol. 154; p. 399.
Sté Seghers et Paradis *et al.* (See Degoumois, Charles, assignor.)
Steacy, Charles B., Atlantic City, N. J. Game equipment. No. 947,603; Jan. 25; Sp. p. 5799; Gaz. vol. 150; p. 963.
Stead, Isaac. (See Miles, Samuel A., assignor.)
Steadman, Christopher. (See Robinson and Steadman.)
Steadman, Samuel A., Manchester, Iowa. Neck-yoke center. No. 970,657; Sept. 20; Sp. p. 3249; Gaz. vol. 158; p. 560.
Stealy, Elza R., Dunlap, Iowa. Dental casting appliance. No. 948,711; Feb. 8; Sp. p. 1972; Gaz. vol. 151; p. 338.
Steam Power Devices Company, The. (See Winslow, William H., assignor.)
Steane, Charles, Coventry, England. Adjustable windscreen for use on vehicles. No. 953,804; Apr. 5; Sp. p. 248; Gaz. vol. 153; p. 44.
Stearns & Co., E. C. (See Potter, William M., assignor.)
Stearns, Edward C., Syracuse, N. Y. Vise. No. 957,520; May 10; Sp. p. 2190; Gaz. vol. 154; p. 378.
Stearns and Foster Company, The. (See Paddack, Truman G., assignor.)
Stearns, Frederick L., New York, N. Y. Incinerating-furnace. No. 973,313; Oct. 18; Sp. p. 3969; Gaz. vol. 159; p. 679.
Stearns, Frederick L., New York, N. Y. Incinerating-furnace. No. 973,314; Oct. 18; Sp. p. 3973; Gaz. vol. 159; p. 679.
Stearns, Jason C., Worcester, Mass. Electric-light attachment for gas-lamps. No. 974,930; Nov. 8; Sp. p. 1933; Gaz. vol. 160; p. 319.
Stearns, Lincoln M., assignor to Art Metal Construction Company, Jamestown, N. Y. Locking device for shelving. No. 949,288; Feb. 15; Sp. p. 3159; Gaz. vol. 151; p. 557.
Stearns-Roger Manufacturing Co., The. (See Gordon, Robert W., assignor.)
Stearns, Willard W., Holyoke, Mass. Shuttle. No. 978,502; Dec. 13; Sp. p. 2344; Gaz. vol. 161; p. 404.
Stearns, Willard W., Holyoke, Mass. Shuttle. No. 978,503; Dec. 13; Sp. p. 2346; Gaz. vol. 161; p. 405.
Stebbings, Eugene, Macon, Mo. Gate. No. 961,551; June 14; Sp. p. 2715; Gaz. vol. 155; p. 471.
Stebbins, Albert C., Plainfield, N. J., and W. T. Sears, Philadelphia, Pa., assignors to Niles-Bement-Pond Company, Jersey City, N. J. Car-wheel lathe. No. 952,084; Mar. 15; Sp. p. 3285; Gaz. vol. 152; p. 592.
Stebbins, Charles E. (See Mendenhall and Stebbins.)
Stebbins, Walter K., Fairmount, N. D. Road-machine. No. 975,580; Nov. 15; Sp. p. 3352; Gaz. vol. 160; p. 569.
Steber, Bernard T., Utica, N. Y. Knitted fabric. No. 951,033; Mar. 1; Sp. p. 1161; Gaz. vol. 152; p. 190.
Stecker, Alfred J., assignor to Eureka Vibrator Co., Detroit, Mich. Vibrator. No. 945,872; Jan. 11; Sp. p. 1934; Gaz. vol. 150; p. 322.
Stecker, August, Rozellville, Wis. Saw-jointer. No. 977,233; Nov. 29; Sp. p. 6966; Gaz. vol. 160; p. 1184.
Steckman, George O., and I. V. Troutman, Altoona, Pa. Nut-lock. No. 952,283; Mar. 15; Sp. p. 3685; Gaz. vol. 152; p. 659.
Stedman, Charlie R., and J. M. Hughes, Denver, Colo. Snow and ice melting vehicle. No. 950,413; Feb. 22; Sp. p. 5555; Gaz. vol. 151; p. 973.
Stedman, James H., Braintree, Mass. Artificial playing-bed for open-air games. No. 957,387; May 10; Sp. p. 1917; Gaz. vol. 154; p. 333.
Steeb, Emil, Indianapolis, Ind. Combined storage-case and exhibition device. No. 956,217; Apr. 26; Sp. p. 5505; Gaz. vol. 153; p. 960.
Steed, Charles W. (See Becker and Steed.)
Steedman, George F., St. Louis, Mo. Fluid-actuated balanced hoist. No. 954,401; Apr. 5; Sp. p. 1487; Gaz. vol. 153; p. 247.
Steedman, George F., St. Louis, Mo. Sand-blast apparatus. No. 955,714; Apr. 19; Sp. p. 4382; Gaz. vol. 153; p. 756.
Steedman, George F., assignor to Curtis & Co., Mfg. Co., St. Louis, Mo. Trolley. No. 960,728; June 7; Sp. p. 991; Gaz. vol. 155; p. 165.
Steedman, George F., St. Louis, assignor to Curtis & Company Manufacturing Company, Wellston, Mo. Closed-hopper sand-blast. No. 979,897; Dec. 27; Sp. p. 5372; Gaz. vol. 161; p. 929.
Steefel, Strauss & Connor. (See Connor and Hess, assignors.)
Steege, Henry W., Westgate, Iowa. Door-latch. No. 952,376; Mar. 15; Sp. p. 3851; Gaz. vol. 152; p. 689.
Steel, Alvin A., Fayetteville, assignor of one-half to E. F. Woodson, Huntington, Ark. Well-boring apparatus. No. 947,862; Feb. 1; Sp. p. 177; Gaz. vol. 151; p. 30.
Steel Cushion Tire Company. (See Ellis, Axel E., assignor.)
Steel Fireproofing Company. (See Cooley, William H., assignor.)
Steel Fireproofing Company. (See Hill, Hermann, assignor.)
Steel Heddle Manufacturing Company. (See Febr and Kaufmann, assignors.)
Steel, John, Omaha, Nebr. Oil-distributing can. No. 963,824; July 12; Sp. p. 1794; Gaz. vol. 156; p. 294.
Steel, Leonard R., Milwaukee, Wis. Milk-can. No. 947,863; Feb. 1; Sp. p. 178; Gaz. vol. 151; p. 30.
Steel, Leonard R., Milwaukee, Wis. Glass-lined milk-can. No. 947,864; Feb. 1; Sp. p. 180; Gaz. vol. 151; p. 31.
Steel, Leonard R., Milwaukee, Wis. Heat-insulated receptacle. No. 957,808; May 10; Sp. p. 2773; Gaz. vol. 154; p. 475.
Steel, Leonard R., Milwaukee, Wis. Bottle. No. 957,809; May 10; Sp. p. 2774; Gaz. vol. 154; p. 476.
Steel, Leonard R., Milwaukee, Wis. Sanitary milk-can. No. 977,977; Dec. 6; Sp. p. 1204; Gaz. vol. 161; p. 193.
Steel, Leonard R., Milwaukee, Wis. Metal milk-can. No. 977,978; Dec. 6; Sp. p. 1206; Gaz. vol. 161; p. 193.
Steel, Leonard R., Milwaukee, Wis. Milk-can. No. 977,979; Dec. 6; Sp. p. 1208; Gaz. vol. 161; p. 193.
Steel Roli Machine Company. (See French, Walter, assignor.)
Steele, Benjamin M., Peoria, Ill. Wagon-dump lifting-jack. No. 954,145; Apr. 5; Sp. p. 932; Gaz. vol. 153; p. 161.
Steele, Clarence M., Statesville, N. C. Brick-car. No. 979,898; Dec. 27; Sp. p. 5376; Gaz. vol. 161; p. 929.
Steele, Edwin G. (See Sutton and Steele.)
Steele, Herbert H., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 950,497; Mar. 1; Sp. p. 74; Gaz. vol. 152; p. 13.
Steele, Herbert H., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 972,940; Oct. 18; Sp. p. 3160; Gaz. vol. 159; p. 551.
Steele, Herbert H., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 975,732; Nov. 15; Sp. p. 3671; Gaz. vol. 160; p. 619.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 953,494; Mar. 29; Sp. p. 6281; Gaz. vol. 152; p. 1126.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 955,010; Apr. 12; Sp. p. 2863; Gaz. vol. 153; p. 486.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 955,368; Apr. 19; Sp. p. 3610; Gaz. vol. 153; p. 637.

Alphabetical list of patentees—Continued.

Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No 957,268; May 10; Sp. p. 1669; Gaz. vol. 154; p. 293.

Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 960,427; June 7; Sp. p. 380; Gaz. vol. 155; p. 64.

Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 963,956; July 12; Sp. p. 2060; Gaz. vol. 156; p. 337.

Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 966,716; Aug. 9; Sp. p. 1887; Gaz. vol. 157; p. 320.

Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 969,915; Sept. 13; Sp. p. 1663; Gaz. vol. 158; p. 287.

Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 979,717; Dec. 27; Sp. p. 4956; Gaz. vol. 161; p. 868.

Steele, Herbert H., Marcellus, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 973,988; Oct. 25; Sp. p. 5392; Gaz. vol. 159; p. 936.

Steele, James B., Pentwater, Mich. Lawn-sprinkler. No. 959,270; May 24; Sp. p. 6183; Gaz. vol. 154; p. 1032.

Steele, James R. (See Rees, Perley E., assignor.)

Steele, Joseph J., and D. D. Owens, Anson, Tex.; said Owens assignor to said Steele. Combined cattle-guard and halter. No. 968,279; Aug. 23; Sp. p. 5219; Gaz. vol. 157; p. 898.

Steele, Lawrence C., Pittsburg, Pa. Doubling mechanism. No. 952,052; Mar. 15; Sp. p. 3230; Gaz. vol. 152; p. 582.

Steele, Lawrence C., Pittsburg, Pa. Heating-furnace for sheet metal. No. 964,191; July 12; Sp. p. 2533; Gaz. vol. 156; p. 417.

Steele, Robert T. (See Partridge, Carr, and Gentle, assignors.)

Steele, Thomas J., Citra, Fla. Current-motor. No. 957,388; May 10; Sp. p. 1919; Gaz. vol. 154; p. 334.

Steele, Walter L. (See Sutton and Steele.)

Steele, William J., Spearville, Kans. Attachment for listers. No. 976,311; Nov. 22; Sp. p. 4936; Gaz. vol. 160; p. 841.

Steele, William P., Palisade, N. J. Spark-arrester. No. 972,583; Oct. 11; Sp. p. 2348; Gaz. vol. 159; p. 401.

Steelman, Lewis, Alexandria, Va. Glass-machine. No. 979,045; Dec. 20; Sp. p. 3513; Gaz. vol. 161; p. 615.

Steen, Andrew S., Adams, N. D. Wrench. No. 964,067; July 12; Sp. p. 2289; Gaz. vol. 156; p. 377.

Steen, Halfdan A., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Limit-switch for motor-operated devices. No. 963,825; July 12; Sp. p. 1796; Gaz. vol. 156; p. 295.

Steen, James C., Lynn, Mass., and N. B. Chace, College Hill, assignors to The Cincinnati Shaper Company, Cincinnati, Ohio. Shaping-machine. No. 949,735; Feb. 15; Sp. p. 4067; Gaz. vol. 151; p. 706.

Steen, Theodore J., assignor to W. B. Steen, St. Paul, Nebr. Blind-fastener for harness. No. 970,761; Sept. 20; Sp. p. 3483; Gaz. vol. 158; p. 596.

Steen, Walter B. (See Steen, Theodore J., assignor.)

Steere, Clarence A., Providence, assignor to Hope Webbing Company, Pawtucket, R. I. Warping-machine. No. 946,164; Jan. 11; Sp. p. 2536; Gaz. vol. 150; p. 423.

Steere, Gilbert D., Holyoke, Mass. Appliance for bookbinders' use. No. 962,867; June 28; Sp. p. 5543; Gaz. vol. 155; p. 969.

Steere, Merrill O., Pawtucket, R. I. Shuttle. No. 961,817; June 21; Sp. p. 3272; Gaz. vol. 155; p. 583.

Steers & Co., Walter. (See Steers, Walter, assignor.)

Steers, Joseph E. (See Schaefer and Steers.)

Steers, Walter, assignor to Walter Steers & Co., Brooklyn, N. Y. Engraving-machine. No. 972,033; Oct. 4; Sp. p. 1147; Gaz. vol. 159; p. 192.

Steffee, John G., New York, N. Y. Auxiliary water-closet seat. No. 948,798; Feb. 8; Sp. p. 2161; Gaz. vol. 151; p. 368.

Stegall, Arthur, *et al.* (See Johnson, Thomas E., assignor.)

Stegall, C. A., *et al.* (See Johnson, Thomas E., assignor.)

Stegall, F. M., *et al.* (See Johnson, Thomas E., assignor.)

Stegall, Grant, *et al.* (See Johnson, Thomas E., assignor.)

Steger, Peter, Oak Park, Ill. Cooking utensil. No. 949,453; Feb. 15; Sp. p. 3508; Gaz. vol. 151; p. 613.

Stehlik, Stephan, and J. Barilla, Derby, Conn. Match-receptacle. No. 969,916; Sept. 13; Sp. p. 1671; Gaz. vol. 158; p. 287.

Steiber, Charles F., New York, N. Y. Metal staircase. No. 947,743; Jan. 25; Sp. p. 6055; Gaz. vol. 150; p. 1010.

Steiger, Andrew W., Bridgeport, Conn., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 948,486; Feb. 8; Sp. p. 1490; Gaz. vol. 151; p. 263.

Steiger, Andrew W., Bridgeport, Conn., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 974,445; Nov. 1; Sp. p. 841; Gaz. vol. 160; p. 125.

Steiger, Andrew W., Bridgeport, Conn., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 975,086; Nov. 8; Sp. p. 2279; Gaz. vol. 160; p. 372.

Steiger, Jacob, Besançon, France, and J. Besançon, La Chaux-de-Fonds, Switzerland. Electric winding mechanism for timepieces. No. 950,520; Mar. 1; Sp. p. 128; Gaz. vol. 152; p. 21.

Steigleder, Frank M., Richmond, Va. Line-threading device. No. 979,899; Dec. 27; Sp. p. 5378; Gaz. vol. 161; p. 930.

Steil, Edmund, assignor to Berlin-Anhaltische Maschinenbau-Actien-Gesellschaft, Abteilung XII, Berlin, Germany. Inverted gas-burner. No. 961,040; June 7; Sp. p. 1613; Gaz. vol. 155; p. 270.

Steil, Edmund, assignor to Berlin-Anhaltische Maschinenbau-Actien Gesellschaft, Abteilung XII, Berlin, Germany. Regulating device for the feed-conduit of gas-burners. No. 965,045; July 19; Sp. p. 4440; Gaz. vol. 156; p. 739.

Stein, Abraham, Philadelphia, Pa. Fender for cars, automobiles, or other vehicles. No. 947,604; Jan. 25; Sp. p. 5802; Gaz. vol. 150; p. 963.

Stein, Carl J., White Earth, N. D. Seeder. No. 971,090; Sept. 27; Sp. p. 4160; Gaz. vol. 158; p. 734.

Stein, David, New York, N. Y., Washboard. No. 957,122; May 3; Sp. p. 1327; Gaz. vol. 154; p. 212.

Stein, Emil. (See Witzenmann and Stein.)

Stein, Emil G. H., New York, N. Y. Phonograph, graphophone, and like instrument. No. 969,917; Sept. 13; Sp. p. 1673; Gaz. vol. 158; p. 288.

Stein, Eugine. (See McGuigan, Joseph, assignor.)

Stein, Frank J., and T. Knapik, assignors to Reliance Glove Company, Chicago, Ill. Glove. No. 978,232; Dec. 13; Sp. p. 1770; Gaz. vol. 161; p. 311.

Stein, George H. (See Massey, Harry A., assignor.)

Stein, George H., *et al.* (See Primavesi, Frank J., assignor.)

Stein, Jacob M., Washington, D. C. Shoulder-presser form. No. 952,377; Mar. 15; Sp. p. 3852; Gaz. vol. 152; p. 689.

Stein, Peter, Chicago, Ill. Leather stripping and trimming machine. No. 979,219; Dec. 20; Sp. p. 3928; Gaz. vol. 161; p. 678.

Stein, Robert R., Los Angeles, Cal. Roundabout. No. 966,134; Aug. 2; Sp. p. 602; Gaz. vol. 157; p. 99.

Stein, Robert R., Los Angeles, Cal. Roundabout. No. 966,135; Aug. 2; Sp. p. 604; Gaz. vol. 157; p. 100.

Stein, Sydney. (See Harders, Hartwig M. A., assignor.) (Reissue.)

Steinacker, Arthur. (See Plisnier, Albert, Jr., assignor.)

Steinau, Carl R., Nuremberg, Germany. Lithopone-white and treating same. No. 955,918; Apr. 26; Sp. p. 4834; Gaz. vol. 153; p. 855.

Steinbart, Alfred, Pittsburg, Pa. Condenser. No. 959,640; May 31; Sp. p. 6941; Gaz. vol. 154; p. 1182.

Steinbart, Alfred, Pittsburg, Pa. Gas-scrubber. No. 965,248; July 26; Sp. p. 4845; Gaz. vol. 156; p. 837.

Steinbeck, Paul W. (See Rasmussen, Charles, assignor.)

Steinberger, Edward J., assignor of one-third to A. Kern and one-third to H. B. Harris, Defiance, Ohio. Baling-press. No. 966,614; Aug. 9; Sp. p. 1669; Gaz. vol. 157; p. 285.

Steinberger, George S. (See Miller, Steinberger, and Hargraves.)

Steinberger, Louis, New York, N. Y. System of insulation. No. 949,604; Feb. 15; Sp. p. 3809; Gaz. vol. 151; p. 664.

Steinberger, Louis, New York, N. Y. Strain-insulator. No. 974,610; Nov. 1; Sp. p. 1210; Gaz. vol. 160; p. 186.

Steinbrugge, Julius, St. Louis, Mo. Tooth-regulator. No. 956,218; Apr. 26; Sp. p. 5506; Gaz. vol. 153; p. 960.

Steinbuch, Ewald. (See Pietzsch and Steinbuch.)

Steinecke, Herman T., Pittsburg, Pa. Transfer-ticket. No. 950,062; Feb. 22; Sp. p. 4860; Gaz. vol. 151; p. 855.

Steiner, Isidor, Munich, Germany. Dust-collector. No. 967,849; Aug. 16; Sp. p. 4260; Gaz. vol. 157; p. 729.

Steiner, Isidor, assignor to Gesellschaft für Steiner's Malz-Entkeimungs-Putz und-Poliermaschinen mit beschränkter Haftung, Munich, Germany. Grain polisher and cleaner. No. 951,549; Mar. 8; Sp. p. 2213; Gaz. vol. 152; p. 384.

Steiner, Isidor, assignor to Gesellschaft für Steiner's Malz-Entkeimungs-Putz und-Poliermaschinen mit beschränkter Haftung, Munich, Germany. Aspirator. No. 951,749; Mar. 8; Sp. p. 2604; Gaz. vol. 152; p. 450.

Steiner, Louis, Sonneberg, Germany, assignor to Firm of G. Borgfeldt & Co., New York, N. Y. Doll's head. No. 952,716; Mar. 22; Sp. p. 4611; Gaz. vol. 152; p. 835.

Steingassner, Hermann, assignor to A. Hutter, New York, N. Y. Valve mechanism for internal-combustion engines. No. 966,367; Aug. 2; Sp. p. 1085; Gaz. vol. 157; p. 174.

Steinharter, Joseph J. (See Bowen, Philip A., assignor.)

Steinhauser, Joseph W. (See Fisher and Steinhauser.)

Steininger, Louis G., Fort Plain, and A. A. Walrath, Minden, N. Y. Bottle and jar seal. No. 954,897; Apr. 12; Sp. p. 2646; Gaz. vol. 153; p. 448.

Alphabetical list of patentees—Continued.

Steinkoenig, Adam, Cincinnati, Ohio. Filter. No. 966,963; Aug. 9; Sp. p. 2436; Gaz. vol. 157; p. 400.
Steinle, George A., assignor to Steinle Turret Machine Company, Madison, Wis. Lathe. No. 946,989; Jan. 18; Sp. p. 4430; Gaz. vol. 150; p. 730.
Steinle Turret Machine Company. (See Steinle, George A., assignor.)
Steinmann, Otto, and X. Pfrunder, Wohlen, Aargau, Switzerland. Braiding-machine. No. 960,122; May 31; Sp. p. 8017; Gaz. vol. 154; p. 1346.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of illumination. No. 945,990; Jan. 11; Sp. p. 2192; Gaz. vol. 150; p. 363.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Vapor electric system. No. 945,991; Jan. 11; Sp. p. 2194; Gaz. vol. 150; p. 364.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of distribution. No. 946,473; Jan. 11; Sp. p. 3301; Gaz. vol. 150; p. 530.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Voltage-regulator. No. 973,579; Oct. 25; Sp. p. 4547; Gaz. vol. 159; p. 793.
Steinmetz, Edward G. (See Smith, Edward W., assignor.)
Steinmetz, Joseph A., Philadelphia, Pa. Mail-collecting apparatus. No. 956,743; May 3; Sp. p. 518; Gaz. vol. 154; p. 84.
Steinmetz, Joseph A., Philadelphia, Pa. Liquid-fuel tank. No. 958,025; May 17; Sp. p. 3351; Gaz. vol. 154; p. 582.
Steinmetz, Joseph A., Philadelphia, Pa. Pile-shoe. No. 973,887; Oct. 25; Sp. p. 5195; Gaz. vol. 159; p. 902.
Steinmeyer, August, Palatine, Ill. Speed-gage. No. 949,990; Feb. 22; Sp. p. 4699; Gaz. vol. 151; p. 830.
Steinmeyer, Samuel, Bonaparte, Iowa. Copy-holder. No. 962,988; June 28; Sp. p. 5758; Gaz. vol. 155; p. 1008.
Steinmetz, Sebastian, Scranton, Pa. Steam-trap. No. 974,201; Nov. 1; Sp. p. 216; Gaz. vol. 160; p. 36.
Steinwachs, Gustave. (See Seymour, William E., assignor.)
Steinweg, Albert J., Chicago, Ill. Lateral trolley for electric railways. No. 975,650; Nov. 15; Sp. p. 3490; Gaz. vol. 160; p. 592.
Steller, Theodore A., Houghton, Mich. Water-heater. No. 960,123; May 31; Sp. p. 8020; Gaz. vol. 154; p. 1347.
Stelzer, Kamillo, Jr. (See Koegler and Stelzer.)
Stempfer, Louis, New York, N. Y. Rotary motor. No. 976,006; Nov. 15; Sp. p. 4209; Gaz. vol. 160; p. 713.
Stenberg, Karl G., Boston, Mass. Draft-tube. No. 954,898; Apr. 12; Sp. p. 2648; Gaz. vol. 153; p. 448.
Stenberg, Sigge, Sundbyberg, Stockholm, Sweden. Automatic cut-off for vapor-burners. No. 954,477; Apr. 12; Sp. p. 1668; Gaz. vol. 153; p. 301.
Stene, Elling, Emmons, Minn. Milking device. No. 955,610; Apr. 19; Sp. p. 4139; Gaz. vol. 153; p. 720.
Stenerson, Ole, Superior, Wis. Wrench. No. 970,762; Sept. 20; Sp. p. 3485; Gaz. vol. 158; p. 597.
Stenhouse, Alexander, and G. Eastham, assignors to C. O'Connor, Chicago, Ill. Ticket-printing machine. No. 948,079; Feb. 1; Sp. p. 627; Gaz. vol. 151; p. 102.
Stenshoel, Hans C. (See Davidson, Peter G., assignor.)
Stepanek, William H., Cedar Rapids, Iowa. Cash-drawer registering and locking device. No. 950,147; Feb. 22; Sp. p. 5021; Gaz. vol. 151; p. 883.
Stephan, Charles H., Dayton, Ohio. Tool for dressing emery-wheels. No. 953,445; Mar. 29; Sp. p. 6174; Gaz. vol. 152; p. 1107.
Stephan, Charles H., Dayton, Ohio. Bow-tie. No. 953,446; Mar. 29; Sp. p. 6175; Gaz. vol. 152; p. 1107.
Stephan, Franz, Untermhaus, near Gera, Germany. Machine for making paper blocks. No. 968,091; Aug. 23; Sp. p. 4799; Gaz. vol. 157; p. 834.
Stephan, Frederick A., New York, assignor to J. T. Byrne, Brooklyn, N. Y. Metallic water-closet seat and cover. No. 969,144; Aug. 30; Sp. p. 7028; Gaz. vol. 157; p. 1222.
Stephan, Paul M., San Francisco, Cal. Tire-armor. No. 967,457; Aug. 16; Sp. p. 3463; Gaz. vol. 157; p. 597.
Stephan, William, Fort Wayne, Ind. Locomotive-boiler superheater. No. 977,234; Nov. 29; Sp. p. 6968; Gaz. vol. 160; p. 1185.
Stephany, Ludwig, assignor of one-half to D. Stahl, Philadelphia, Pa. Pneumatic scissors. No. 949,095; Feb. 15; Sp. p. 2766; Gaz. vol. 151; p. 492.
Stephen, John, Vallejo, Cal. Non-refillable bottle. No. 955,919; Apr. 26; Sp. p. 4835; Gaz. vol. 153; p. 855.
Stephen, William C., St. Louis, Mo. Weight-compensator for windows, doors, and the like. No. 965,763; July 26; Sp. p. 5976; Gaz. vol. 156; p. 1015.
Stephens, Allen P., assignor to Stephens Tie Extractor Company, Rarden, Ohio. Tie extractor and replacer. No. 952,378; Mar. 15; Sp. p. 3855; Gaz. vol. 152; p. 690.
Stephens, Augustus W., Waltham, Mass. Stopper-extractor. No. 952,085; Mar. 15; Sp. p. 3287; Gaz. vol. 152; p. 592.
Stephens, Augustus W., Waltham, Mass. Stopper-extractor. No. 959,897; May 31; Sp. p. 7507; Gaz. vol. 154; p. 1268.
Stephens, David J. (See Armitage and Stephens.)
Stephens, Francis, assignor of one-half to J. T. Miller, Mitchell, S. D. Floor-scraper. No. 962,926; June 28; Sp. p. 5642; Gaz. vol. 155; p. 988.
Stephens, John C. (See Aubuchon, Gertrude, assignor.)
Stephens, John H., Vernon, Tex. Hose-coupling. No. 951,516; Mar. 8; Sp. p. 2144; Gaz. vol. 152; p. 372.
Stephens, John H., Vernon, Tex. Hose-coupling. No. 964,578; July 19; Sp. p. 3389; Gaz. vol. 156; p. 579.
Stephens, John H., Vernon, Tex. Hose-coupling. No. 964,579; July 19; Sp. p. 3393; Gaz. vol. 156; p. 580.
Stephens, John H., Vernon, Tex. Hose-coupling. No. 969,216; Sept. 6; Sp. p. 156; Gaz. vol. 158; p. 25.
Stephens, John W., Staunton, Va. Scale-preventer for boilers. No. 973,989; Oct. 25; Sp. p. 5400; Gaz. vol. 159; p. 936.
Stephens, Robert H., W. F. Davidson, New Castle, Pa., and D. C. Smith, Abingdon, Ill. Street-cleaning machine. No. 965,764; July 26; Sp. p. 5977; Gaz. vol. 156; p. 1016.
Stephens, Sterling, Bushnell, Fla. Railway-joint. No. 960,428; June 7; Sp. p. 385; Gaz. vol. 155; p. 64.
Stephens Tie Extractor Company. (See Stephens, Allen P., assignor.)
Stephens, William A., Abilene, Tex. Railway-tie. No. 950,308; Feb. 22; Sp. p. 5360; Gaz. vol. 151; p. 941.
Stephens, William A., Little Rock, Ark. Subsoiler attachment for plows. No. 960,600; June 7; Sp. p. 735; Gaz. vol. 155; p. 121.
Stephens, William A., assignor of one-half to J. M. Powers, Lawton, Okla. Oil-burner. No. 976,105; Nov. 15; Sp. p. 4414; Gaz. vol. 160; p. 748.
Stephenson, Edward, San Francisco, Cal. Cleaning attachment for water-tube boilers. No. 958,842; May 24; Sp. p. 5282; Gaz. vol. 154; p. 891.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Combined rail-brace and tie-plate. No. 964,325; July 12; Sp. p. 2813; Gaz. vol. 156; p. 464.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Combined rail-brace and tie-plate. No. 979,350; Dec. 20; Sp. p. 4174; Gaz. vol. 161; p. 720.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Combined rail-brace and tie-plate. No. 979,351; Dec. 20; Sp. p. 4175; Gaz. vol. 161; p. 721.
Stepleton, James T., Franklin, Tex. Cotton-chopper. No. 947,690; Jan. 25; Sp. p. 5961; Gaz. vol. 150; p. 992.
Stepp, Benjamin B., Caryville, Tenn. Saw-handle. No. 968,710; Aug. 30; Sp. p. 6153; Gaz. vol. 157; p. 1074.
Steppacher, Louis. (See Hayes, Jesse W., assignor.)
Sterilac Company. (See Horne, Irving N., assignor.)
Sterling Co., The. (See Crofut, Frank V., assignor.)
Sterling Cork and Seal Company. (See Wetmore, Earl P., assignor.)
Sterling, Mark H., Bisbee, Ariz. Candle-protector. No. 977,567; Dec. 6; Sp. p. 348; Gaz. vol. 161; p. 51.
Sterling-Meaker Company. (See Gierding, Charles E., assignor.)
Sterling Novelty Company, The. (See Toohey, Patrick W., assignor.)
Sterling Oil Engine Company. (See Hayes, Garfield H., assignor.)
Sterling Sales Company *et al.* (See Melvin, Mark G., assignor.)
Sterling Vacuum Cleaner Company. (See Hemmer, Frederick C., assignor.)
Sterling Vehicle Company. (See Boucher, Joseph J., assignor.)
Sterling, Walter B., assignor of one-half to R. K. Cox, Wellsburg, W. Va. Invalid-bed. No. 952,957; Mar. 22; Sp. p. 5105; Gaz. vol. 152; p. 916.
Sterling Wheelbarrow Company. (See Baker, Charles A., assignor.)
Stern Bros. (See Stern, Henry, assignor.)
Stern, David, Cincinnati, Ohio. Switchboard for dental, medical, or surgical purposes. No. 959,641; May 31; Sp. p. 6942; Gaz. vol. 154; p. 1183.
Stern, Henry, assignor to Stern Bros., New York, N. Y. Safety screw-back for ear-rings and buttons. No. 978,789; Dec. 13; Sp. p. 2958; Gaz. vol. 161; p. 500.
Stern, Loui, New York, N. Y. Folding bed. No. 956,219; Apr. 26; Sp. p. 5507; Gaz. vol. 153; p. 961.
Stern, Marcus. (See Brousseau, Harry, assignor.)
Stern, Milton C. (See Schirmer and Stern.)
Stern, Morris L., New York, N. Y. Display apparatus. No. 967,685; Aug. 16; Sp. p. 3923; Gaz. vol. 157; p. 673.
Stern, Moses A., Savannah, Ga. Supplementary type-case. No. 977,339; Nov. 29; Sp. p. 7179; Gaz. vol. 160; p. 1221.
Stern, Philip K., New York, N. Y. Thermodynamic motor. No. 975,651; Nov. 15; Sp. p. 3493; Gaz. vol. 160; p. 592.
Stern, Philip K., New York, N. Y., assignor to General Electric Company. Electrical time-limit switch. No. 947,981; Feb. 1; Sp. p. 423; Gaz. vol. 151; p. 67.
Stern, Rudolph. (See Kleinberger and Stern.)
Stern, Rupert. (See Hartlett, George D., assignor.)
Stern, Walter F., assignor of one-half to J. H. Knoll, Reading, Pa. Floor-scraper. No. 955,444; Apr. 19; Sp. p. 3772; Gaz. vol. 153; p. 662.
Sternad, John, Jersey City, N. J. Washboard. No. 957,011; May 3; Sp. p. 1112; Gaz. vol. 154; p. 175.
Sterne, Bernhard, *et al.* (See Lewy, Charles H., assignor.)
Sterner, Alfred, Chicago, Ill. Stay-bolt breaker. No. 964,129; July 12; Sp. p. 2427; Gaz. vol. 156; p. 398.

Sterner, Frederick J., and W. A. Rose, New York, N. Y. Making decorated concrete tiles. No. 964,326; July 12; Sp. p. 2814; Gaz. vol. 156; p. 464.
Sterrett, Frank E., Denver, Colo. Folding crate or box. No. 947,563; Jan. 25; Sp. p. 5714; Gaz. vol. 150; p. 949.
Sterrett, Frank E., Denver, Colo. Collapsible crate or box. No. 975,000; Nov. 8; Sp. p. 2110; Gaz. vol. 160; p. 343.
Sterzing, Albert A. E., New York, N. Y. Furnace. No. 963,088; July 5; Sp. p. 122; Gaz. vol. 156; p. 22.
Stetsall, William, Marion, Ind. Apparatus for catching and delivering mail. No. 979,587; Dec. 27; Sp. p. 4691; Gaz. vol. 161; p. 824.
Stetson, Amos H., Brookline, Mass. Corner-clamp. No. 949,096; Feb. 15; Sp. p. 2769; Gaz. vol. 151; p. 492.
Stetson, Frank H., Lawrence, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Loom-shuttle. No. 970,763; Sept. 20; Sp. p. 3487; Gaz. vol. 158; p. 597.
Stetson, Warren, trustee. (See Crawford, Harry M., assignor.)
Stetter, Charles E. (See Sowash and Stetter.)
Stettiner Chamotte-Fabrik Actien-Gesellschaft vormals Didier. (See Krause, Ernst H. H., assignor.)
Steuart, Benjamin F., Andalusia, Ala. Fence-clamp. No. 968,998; Aug. 30; Sp. p. 6724; Gaz. vol. 157; p. 1171.
Stevens, Alton E., assignor to International Electric Company, Fall River, Mass. Relay. No. 951,623; Mar. 8; Sp. p. 2354; Gaz. vol. 152; p. 408.
Stevens, Alton E., Fall River, assignor of three-fifths to S. H. Couch, Wollaston, Mass. Autophone system. No. 957,909; May 17; Sp. p. 3002; Gaz. vol. 154; p. 540.
Stevens, Andrew E., Madison, Wis., assignor to Northern Electrical Manufacturing Company. Motor-control apparatus. No. 958,442; May 17; Sp. p. 4457; Gaz. vol. 154; p. 728.
Stevens, Arthur, Clifton Springs, N. Y. Jointed square. No. 975,581; Nov. 15; Sp. p. 3353; Gaz. vol. 160; p. 569.
Stevens, Breese, New Hartford, N. Y. Head-rest for burial-caskets. No. 957,910; May 17; Sp. p. 3017; Gaz. vol. 154; p. 541.
Stevens, Burt D., assignor to The Berlin Machine Works, Beloit, Wis. Holding device for planer-head bits. No. 954,146; Apr. 5; Sp. p. 943; Gaz. vol. 153; p. 162.
Stevens, Burt D., assignor to The Berlin Machine Works, Beloit, Wis. Variable-speed device. No. 955,920; Apr. 26; Sp. p. 4836; Gaz. vol. 153; p. 855.
Stevens, Carrol L. (See Conaway and Stevens.)
Stevens, Charles W., East Orange, N. J. Hat-forming press. No. 947,309; Jan. 25; Sp. p. 5118; Gaz. vol. 150; p. 864.
Stevens, Charles W., New York, N. Y. Machine for turning irregular forms. No. 964,327; July 12; Sp. p. 2816; Gaz. vol. 156; p. 465.
Stevens, Clayton S., New Britain, Conn. Saw-clamp. No. 960,208; May 31; Sp. p. 8181; Gaz. vol. 154; p. 1377.
Stevens, Edward. (See Warters, Clifton R., assignor.)
Stevens, Edward F. (See McStay and Stevens.)
Stevens, Elbridge W., Baltimore, Md. Igniter for explosion-engines. No. 968,280; Aug. 23; Sp. p. 5221; Gaz. vol. 157; p. 899.
Stevens, Evie, Park, Wash. Truck connection. No. 975,475; Nov. 15; Sp. p. 3117; Gaz. vol. 160; p. 532.
Stevens, Frank C., assignor to Davis & Furber Machine Company, North Andover, Mass. Dusting apparatus. No. 967,993; Aug. 23; Sp. p. 4566; Gaz. vol. 157; p. 801.
Stevens, Frank W., Newton, Mass. Concrete floor construction. No. 947,514; Jan. 25; Sp. p. 5620; Gaz. vol. 150; p. 933.
Stevens, Fred A., San Francisco, Cal. Oil-burner and draft appliance. No. 968,281; Aug. 23; Sp. p. 5224; Gaz. vol. 157; p. 899.
Stevens, Fred P., assignor of one-half to J. A. Eddy, Denver, Colo. Photographic-printing machine. No. 978,955; Dec. 20; Sp. p. 3304; Gaz. vol. 161; p. 584.
Stevens, Frederick A., Providence, R. I. Frameless spectacles. No. 953,304; Mar. 29; Sp. p. 5856; Gaz. vol. 152; p. 1058.
Stevens, Frederick A., Providence, R. I. Eyeglass-mounting. No. 956,220; Apr. 26; Sp. p. 5509; Gaz. vol. 153; p. 961.
Stevens, Frederick M., assignor to Manhattan Screw & Stamping Works, New York, N. Y. Lamp. No. 971,323; Sept. 27; Sp. p. 4626; Gaz. vol. 158; p. 810.
Stevens, Frederick R., assignor to Live Stock Marker Company, Geneva, N. Y. Live-stock marker. No. 976,225; Nov. 22; Sp. p. 4725; Gaz. vol. 160; p. 811.
Stevens, Frederick W., Joliet, Ill. Sheet-cutting machine. No. 965,489; July 26; Sp. p. 5367; Gaz. vol. 156; p. 919.
Stevens, George A., Centralia, Ill. Gun-stock. No. 961,041; June 7; Sp. p. 1615; Gaz. vol. 155; p. 270.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Nozzle for elastic-fluid turbines. No. 951,346; Mar. 8; Sp. p. 1797; Gaz. vol. 152; p. 316.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Electric snap-switch. No. 951,347; Mar. 8; Sp. p. 1798; Gaz. vol. 152; p. 316.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Snap-switch. No. 953,354; Mar. 29; Sp. p. 5979; Gaz. vol. 152; p. 1076.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Electric heater. No. 959,399; May 24; Sp. p. 6427; Gaz. vol. 154; p. 1075.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Electrically-heated flat-iron. No. 962,989; June 28; Sp. p. 5759; Gaz. vol. 155; p. 1008.
Stevens, George J., London, England, assignor, by mesne assignments, to American Attachment Company, Portland, Me. Sewing-machine attachment for overseaming and the like. No. 968,997; Aug. 30; Sp. p. 6719; Gaz. vol. 157; p. 1170.
Stevens, George P., Chicago, Ill. Polishing or buffing wheel. No. 968,431; Aug. 23; Sp. p. 5515; Gaz. vol. 157; p. 951.
Stevens, Hansford C., Flemington, W. Va. Lock. No. 966,261; Aug. 2; Sp. p. 890; Gaz. vol. 157; p. 142.
Stevens, Harry M., Schenectady, N. Y., assignor to General Electric Company. Diaphragm-motor. No. 945,092; Jan. 11; Sp. p. 2196; Gaz. vol. 150; p. 364.
Stevens, Herbert H., Port Elgin, Ontario, Canada. Brush. No. 964,707; July 19; Sp. p. 3756; Gaz. vol. 156; p. 624.
Stevens, Ida L., St. Louis, Mo. Vaginal syringe. No. 963,482; July 5; Sp. p. 1038; Gaz. vol. 156; p. 158.
Stevens, John M., *et al.* (See Emmerson, John T., assignor.)
Stevens, John S., Atlanta, Ga. Can. No. 964,458; July 12; Sp. p. 3073; Gaz. vol. 156; p. 505.
Stevens, Josiah P., Atlanta, Ga. Engraving-machine. No. 962,062; June 21; Sp. p. 3794; Gaz. vol. 155; p. 666.
Stevens, Julius D., *et al.* (See Melvin, Mark G., assignor.)
Stevens, Leslie, Glen Ridge, N. J. Hat-matrix. No. 954,478; Apr. 12; Sp. p. 1669; Gaz. vol. 153; p. 302.
Stevens Manufacturing Company. (See Rowe, Williard C., assignor.)
Stevens, Richard H., Munhall, Pa. Drag-out for hotbeds. No. 959,813; May 31; Sp. p. 7319; Gaz. vol. 154; p. 1240.
Stevens, Samuel N., Fitchburg, Mass. Air-brake-controlling means for locomotive-engines. No. 955,611; Apr. 19; Sp. p. 4140; Gaz. vol. 153; p. 720.
Stevens, Sidney M., assignor of one-half to G. Chase, Prince George, Va. Apparatus for pumping water. No. 973,230; Oct. 18; Sp. p. 3812; Gaz. vol. 159; p. 651.
Stevens, Theodore B., Cleveland, Ohio. Lock-strike. No. 958,443; May 17; Sp. p. 4459; Gaz. vol. 154; p. 729.
Stevens, Thomas G., Pavenham, Bedford, and C. Wakefield, Rosherville, England. Boot and shoe tree. No. 945,202; Jan. 4; Sp. p. 409; Gaz. vol. 150; p. 67.
Stevens, Thomas M., Watertown, Mass. Lightning-arresting apparatus. No. 962,536; June 28; Sp. p. 4856; Gaz. vol. 155; p. 854.
Stevens, Truman E., *et al.* (See Vesey, Richard H., assignor.)
Stevens, Vern V. (See Lavin and Stevens.)
Stevens, William C. (See Merriman and Stevens.)
Stevens, William C., assignor, by mesne assignments, to The Star Drilling Machine Company, Akron, Ohio. Well-drilling machine. No. 955,612; Apr. 19; Sp. p. 4142; Gaz. vol. 153; p. 721
Stevens, William N., Hartford, Conn. Dimensioning apparatus. No. 952,588; Mar. 22; Sp. p. 4317; Gaz. vol. 152; p. 791.
Stevenson, Ashton G., assignor to Chicago Linotabler Company, Chicago, Ill. Printing-rule and system of applying same to printing-forms. No. 974,718; Nov. 1; Sp. p. 1451; Gaz. vol. 160; p. 224.
Stevenson, Benjamin H., Hamler, Ohio. Hydraulic transmission for automobiles. No. 976,226; Nov. 22; Sp. p. 4728; Gaz. vol. 160; p. 811.
Stevenson, Charles, Coraopolis, Pa. Wire cable, socket, and coupling. No. 974,719; Nov. 1; Sp. p. 1454; Gaz. vol. 160; p. 224.
Stevenson, Frederick, Los Angeles, Cal. Office equipment. No. 948,531; Feb. 8; Sp. p. 1580; Gaz. vol. 151; p. 279.
Stevenson, George W., assignor of one-half to L. P. Muthart, Reading, Pa. Stripping device for singeing-machines. No. 945,630; Jan. 4; Sp. p. 1337; Gaz. vol. 150; p. 208.
Stevenson, James W., assignor of one-half to I. A. Holeman, Riverside, Cal. Orange-sizing machine. No. 974,720; Nov. 1; Sp. p. 1455; Gaz. vol. 160; p. 224.
Stevenson, John S., Crisfield, Md. Whip-socket. No. 970,658; Sept. 20; Sp. p. 3250; Gaz. vol. 158; p. 560.
Stevenson, John W. (See Dustin, John F., assignor.)
Stevenson, John W., Goldfield, Nev. Preserving compound. No. 971,799; Oct. 4; Sp. p. 601; Gaz. vol. 159; p. 105.
Stevenson, John W., assignor to P. A. Griswold, St. Louis, Mo. Hydrant. No. 968,711; Aug. 30; Sp. p. 6155; Gaz. vol. 157; p. 1075.
Stevenson, Ralph D., Hubbard, Ohio. Nut-lock. No. 950,123; Feb. 22; Sp. p. 4979; Gaz. vol. 151; p. 875.
Stevenson, Samuel P., Chester, Pa. Door and doorway for refrigerating-apartments and similar structures. No. 962,174; June 21; Sp. p. 4066; Gaz. vol. 155; p. 706.
Stevenson, Samuel P., Chester, Pa. Spring for door-fasteners. No. 965,418; July 26; Sp. p. 5211; Gaz. vol. 156; p. 894.
Stevenson, Sterling S., Saltillo, Mexico. Power rock-drill. No. 972,726; Oct. 11; Sp. p. 2647; Gaz. vol. 159; p. 449.

Alphabetical list of patentees—Continued.

Stevenson, Thomas E., assignor of one-half to W. O. Clingler, Chicago, Ill. Reamer. No. 956,664; July 26; Sp. p. 5767; Gaz. vol. 156; p. 981.
Stevenson, William A., assignor of one-third to G. Fitzburger and one-third to C. H. Fitzburger, Baltimore, Md. Safety device for submarine boats. No. 952,379; Mar. 15; Sp. p. 3856; Gaz. vol. 152; p. 690.
Stevenson, William H., assignor to Cain-Stevenson Company, Newark, N. J. Garment. No. 975,087; Nov. 8; Sp. p. 2282; Gaz. vol. 160; p. 373.
Stever, Arthur E. (See Cooper, Lyman M., assignor.)
Steward, Alden A., Rutland, Vt. Fire-check. No. 958,944; May 24; Sp. p. 5508; Gaz. vol. 154; p. 925.
Steward, John A., Rutland, Vt. Carbureter. No. 947,357; Jan. 25; Sp. p. 5233; Gaz. vol. 150; p. 882.
Steward, John F., Chicago, Ill., assignor to International Harvester Company. Grain-drill. No. 953,982; Apr. 5; Sp. p. 591; Gaz. vol. 153; p. 106.
Steward, John W., Paterson, N. J. Tobacco-pipe. No. 960,429; June 7; Sp. p. 386; Gaz. vol. 155; p. 64.
Stewart, Alfred C., Los Angeles, Cal. Carbureter. No. 960,601; June 7; Sp. p. 736; Gaz. vol. 155; p. 121.
Stewart, Andrew, Uhrichsville, Ohio. Furnace-regulator. No. 969,669; Sept. 6; Sp. p. 1096; Gaz. vol. 158; p. 176.
Stewart, Annie. (See Stewart, James S., assignor.)
Stewart, Charles C., Oak Park, assignor to The Campbell Company, Chicago, Ill. Mailing-folder. No. 970,659; Sept. 20; Sp. p. 3252; Gaz. vol. 158; p. 560.
Stewart, Charles E., Woodstock, Ontario, Canada. Warm-air furnace. No. 952,476; Mar. 22; Sp. p. 4072; Gaz. vol. 152; p. 752.
Stewart, Charles G., Torrington, Conn., assignor to Reading Standard Company, Reading, Pa. Variable-speed gear. No. 949,918; Feb. 22; Sp. p. 4512; Gaz. vol. 151; p. 805.
Stewart, George F., Swampscott, assignor to T. G. Plant, Boston, Mass. Nail-block templet for heeling-machines. No. 947,510; Jan. 25; Sp. p. 5613; Gaz. vol. 150; p. 932.
Stewart, George F., Swampscott, assignor to T. G. Plant, Boston, Mass. Shoe-sole-edge setter. No. 958,026; May 17; Sp. p. 3352; Gaz. vol. 154; p. 582.
Stewart, George F., Swampscott, assignor to T. G. Plant, Boston, Mass. Boot and shoe channeling machine. No. 958,027; May 17; Sp. p. 3355; Gaz. vol. 154; p. 583.
Stewart, H. T., *et al.* (See Hill, Jasper N., assignor.)
Stewart, Harland. (See Jones and Stewart.)
Stewart Hartshorn Company. (See Hartshorn, Edmund F., assignor.)
Stewart, Horace P., Armstrong Creek, Wis. Pipe-cleaner. No. 957,389; May 10; Sp. p. 1920; Gaz. vol. 154; p. 334.
Stewart, Howard D., assignor of one-half to F. M. Jacobs, Chicago, Ill. Advertising device. No. 978,956; Dec. 20; Sp. p. 3321; Gaz. vol. 161; p. 585.
Stewart, Idalia J., Portland, Oreg. Collar-support. No. 968,712; Aug. 30; Sp. p. 6157; Gaz. vol. 157; p. 1075.
Stewart, James S., Diamondville, Wyo. Rotary internal-combustion engine. No. 957,631; May 10; Sp. p. 2402; Gaz. vol. 154; p. 416.
Stewart, James S., assignor to A. Stewart, New York, N. Y. Branch block for suspended cables. No. 959,969; May 31; Sp. p. 7681; Gaz. vol. 154; p. 1295.
Stewart, James S., assignor to A. Stewart, New York, N. Y. Electric-lamp socket. No. 976,519; Nov. 22; Sp. p. 5378; Gaz. vol. 160; p. 912.
Stewart, John, Logan, Utah. Diffusion process. No. 962,597; June 28; Sp. p. 4995; Gaz. vol. 155; p. 874.
Stewart, John, Logan, Utah. Diffusion apparatus. No. 962,725; June 28; Sp. p. 5260; Gaz. vol. 155; p. 918.
Stewart, John G., Monmouth, Ill. Grain-shocker. No. 958,190; May 17; Sp. p. 3790; Gaz. vol. 154; p. 640.
Stewart, John G., assignor to Stewarts & Lloyds Limited, Glasgow, Scotland. Jointing of pipes and the like. No. 978,504; Dec. 13; Sp. p. 2347; Gaz. vol. 161; p. 405.
Stewart, John K., Chicago, Ill. Magnetic tachometer. No. 956,221; Apr. 26; Sp. p. 5510; Gaz. vol. 153; p. 961.
Stewart, John N., Chicago, Ill. Wheeled tray. No. 963,404; July 5; Sp. p. 891; Gaz. vol. 156; p. 131.
Stewart, John S., Houston, Tex. Well-drilling device. No. 974,305; Nov. 1; Sp. p. 509; Gaz. vol. 160; p. 75.
Stewart, Joseph H., Bluff City, assignor of one-half to J. Thomas. Bristol, Tenn. Bow-facing self-feathering oar. No. 951,464; Mar. 8; Sp. p. 2048; Gaz. vol. 152; p. 355.
Stewart, Lemuel N., Agency, assignor to G. H. Furbeck, St. Joseph, Mo. Anchor. No. 977,757; Dec. 6; Sp. p. 737; Gaz. vol. 161; p. 116.
Stewart, Matthew A., Newark, N. J., assignor to The Matt Stewart Company, Memphis, Tenn. Envelop-machine. No. 962,927; June 28; Sp. p. 5643; Gaz. vol. 155; p. 988.
Stewart, Matthew A., Newark, N. J., assignor to The Matt Stewart Company, Memphis, Tenn. Eyelet and rivet feeding device. No. 962,928; June 28; Sp. p. 5645; Gaz. vol. 155; p. 988.
Stewart, McElmer, assignor of one-third to C. I. Miller, one-third to J. A. and M. L. Kidwell, and one-third to J. F. Allen, Kansas City, Mo. Excelsior-cutting machine. No. 950,011; Feb. 22; Sp. p. 4747; Gaz. vol. 151; p. 838.
Stewart, Richard C. (See Martin, James W., assignor.)
Stewart, Richard C., Covington, Ky. Seat-support. No. 955,220; Apr. 19; Sp. p. 3290; Gaz. vol. 153; p. 589.
Stewart, Richard C., Covington, Ky. Construction of posts. No. 958,334; May 17; Sp. p. 4241; Gaz. vol. 154; p. 691.
Stewart, Richard F., Briarcliff Manor, N. Y. Creamery-butter box or receptacle. No. 954,220; Apr. 5; Sp. p. 1127; Gaz. vol. 153; p. 187.
Stewart, Robert W., East Oakland, Cal. Monoplane aeroplane. No. 951,154; Mar. 8; Sp. p. 1400; Gaz. vol. 152; p. 254.
Stewart, Scott, Rivesville, W. Va. String-clasp. No. 979,588; Dec. 27; Sp. p. 4693; Gaz. vol. 161; p. 824.
Stewart, Thomas C. (See Dismuke and Stewart.)
Stewart, Walter G., Allentown, Pa. Shaper-guard. No. 955,482; Apr. 19; Sp. p. 3847; Gaz. vol. 153; p. 677.
Stewart, William A., Philadelphia, Pa. Hub-nut. No. 965,490; July 26; Sp. p. 5372; Gaz. vol. 156; p. 919.
Stewart, William C. (See Collom, McClintock, Stewart, and McCreight.)
Stewart, William C., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Sole-marking machine. No. 958,028; May 17; Sp. p. 3363; Gaz. vol. 154; p. 583.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Machine for slashing soles of boots and shoes. No. 958,029; May 17; Sp. p. 3376; Gaz. vol. 154; p. 584.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Knife-grinding machine. No. 958,030; May 17; Sp. p. 3384; Gaz. vol. 154; p. 584.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Jack for slugging and other machines. No. 958,031; May 17; Sp. p. 3386; Gaz. vol 154; p. 585.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Knife grinding and sharpening machine. No. 958,032; May 17; Sp. p. 3389; Gaz. vol. 154; p. 585.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Outsole-marker. No. 958,033; May 17; Sp. p. 3391; Gaz. vol. 154; p. 585.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Rotary jack. No. 958,034; May 17; Sp. p. 3398; Gaz. vol. 154; p. 586.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Tack-pounder. No. 958,035; May 17; Sp. p. 3403; Gaz. vol. 154; p. 586.
Stewart, William C., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Horn-controlling mechanism for fastener-inserting machines. No. 958,036; May 17; Sp. p. 3404; Gaz. vol. 154; p. 587.
Stewart, William C., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Nail assorting and delivering mechanism. No. 958,037; May 17; Sp. p. 3415; Gaz. vol. 154; p. 587.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Work-holder for heeling-machines. No. 958,038; May 17; Sp. p. 3427; Gaz. vol. 154; p. 588.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Nail assorting and delivering mechanism. No. 958,039; May 17; Sp. p. 3430; Gaz. vol. 154; p. 588.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Fastener-inserting machine. No. 958,040; May 17; Sp. p. 3438; Gaz. vol. 154; p. 589.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Top-lift holder for heeling-machines. No. 958,041; May 17; Sp. p. 3444; Gaz. vol. 154; p. 589.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Work-support for boot and shoe machines. No. 958,042; May 17; Sp. p. 3447; Gaz. vol. 154; p. 590.
Stewart, William C., Lynn, assignor to T. G. Plant, Boston, Mass. Insole covering and reinforcing machine. No. 965,342; July 26; Sp. p. 5060; Gaz. vol. 156; p. 870.
Stewart, William G., Kansas City, Kans. Threshing-machine. No. 978,072; Dec. 6; Sp. p. 1395; Gaz. vol. 161; p. 224.
Stewart, William H., St. Louis, Mo. Street-flushing apparatus. No. 969,217; Sept. 6; Sp. p. 158; Gaz. vol. 158; p. 26.
Stewart, William R., Ensley, Ala. Metallic fence-post. No. 978,505; Dec. 13; Sp. p. 2348; Gaz. vol. 161; p. 405.
Stewart, William W., Muskogee, Okla. Trolley-harp. No. 974,611; Nov. 1; Sp. p. 1213; Gaz. vol. 160; p. 186.
Stewarts & Lloyds Limited. (See Gardiner, Robert J., assignor.)
Stewarts & Lloyds Limited. (See Stewart, John G., assignor.)
Steynis, Jan, Babylon, N. Y., assignor to Steynis Ozone Company. Insulating device. No. 954,597; Apr. 12; Sp. p. 1922; Gaz. vol. 153; p. 342.
Steynis Ozone Company. (See Steynis, Jan, assignor.)
Stichler, Charles. (See Spahr and Stichler.)
Stickdorn, Robert, Dusseldorf, Germany. Closet-rinsing apparatus. No. 954,899; Apr. 12; Sp. p. 2649; Gaz. vol. 153; p. 449.
Stickel, Harry C., Star Junction, Pa. Adjustable extension for piano-pedals. No. 969,670; Sept. 6; Sp. p. 1098; Gaz. vol. 158; p. 176.
Stickel, John H., Handy Harrisville Station, Pa. Combined check and gate valve. No. 961,738; June 14; Sp. p. 3088; Gaz. vol. 155; p. 533.
Stickels, Edward H. (See Webb and Stickels.)
Stickle, Arthur W., assignor of forty one-hundredths to A. G. Peuchen, twenty-five one-hundredths to U. C. Hamilton, and ten one-hundredths to G. J. Webster, Toronto, Ontario, Canada. Charcoal-stove. No. 948,259; Feb. 1; Sp. p. 976; Gaz. vol. 151; p. 160.

Stickler, Andrew J., Winfield, Iowa. Vaporizer or carbureter. No. 976,409; Nov. 22; Sp. p. 5158; Gaz. vol. 160; p. 876.

Stickley, Joseph, Lake Andes, assignor of one-half to W. Moore, Armour, S. D. Wireless corn-planter. No. 950,682; Mar. 1; Sp. p. 460; Gaz. vol. 152; p. 75.

Stickney, Allison M., assignor to Wellman Company, Medford, Mass. Machine for cutting irregular forms. No. 961,907; June 21; Sp. p. 3464; Gaz. vol. 155; p. 613.

Stickney, Allison M., assignor to Wellman Company, Medford, Mass. Machine for cutting irregular forms. No. 975,652; Nov. 15; Sp. p. 3509; Gaz. vol. 160; p. 593.

Stickney, Burnham C., Elizabeth, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 953,447; Mar. 29; Sp. p. 6176; Gaz. vol. 152; p. 1107.

Stickney, Burnham C., Elizabeth, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 953,561; Mar. 29; Sp. p. 6418; Gaz. vol. 152; p. 1149.

Stickney, Burnham C., Elizabeth, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 974,841; Nov. 8; Sp. p. 1714; Gaz. vol. 160; p. 288.

Stickney, Henry R., Portland, Me. Turn-table. No. 948,352; Feb. 8; Sp. p. 1192; Gaz. vol. 151; p. 218.

Stief, Edward. (See Dahms, Albert, assignor.)

Stiefel, Ralph C., Ellwood City, Pa. Process of and apparatus for rolling tubes, solid round bars, and similar bodies. No. 950,708; Mar. 1; Sp. p. 538; Gaz. vol. 152; p. 84.

Stiehl, Otto M., St. Louis, Mo. Knockdown receptacle. No. 949,204; Feb. 15; Sp. p. 2984; Gaz. vol. 151; p. 529.

Stienen, Ferdinand, Lynn, Mass. Amalgamator. No. 956,222; Apr. 26; Sp. p. 5513; Gaz. vol. 153; p. 962.

Stierheim, Arthur D., Charlestown, Ind. Wagon-standard. No. 969,218; Sept. 6; Sp. p. 160; Gaz. vol. 158; p. 26.

Stierle, Erwin. (See Kunzmann and Stierle.)

Stifter, Joseph, Pittsburg, Pa. Dump-wagon. No. 972,941; Oct. 18; Sp. p. 3168; Gaz. vol. 159; p. 552.

Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Lasting-machine. No. 946,620; Jan. 18; Sp. p. 3597; Gaz. vol. 150; p. 605.

Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 954,008; Apr. 5; Sp. p. 644; Gaz. vol. 153; p. 115.

Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Jack for shoe-machines. No. 974,202; Nov. 1; Sp. p. 218; Gaz. vol. 160; p. 36.

Stiggleman, James H., Wabash, assignor of one-fourth to F. T. Edenharter, Indianapolis, Ind. Sectional metallic flooring. No. 958,557; May 17; Sp. p. 4669; Gaz. vol. 154; p. 767.

Stiggleman, James H., Wabash, assignor of one-fourth to F. T. Edenharter, Indianapolis, Ind. Metallic receptacle. No. 958,558; May 17; Sp. p. 4670; Gaz. vol. 154; p. 767.

Stigler, Albert, Gillespieville, Ohio. Flower-stand. No. 966,262; Aug. 2; Sp. p. 892; Gaz. vol. 157; p. 142.

Stiles, Charles B. (See De Witt and Stiles.)

Stiles, Noel R., London, England. Device for automatically delivering articles. No. 958,559; May 17; Sp. p. 4671; Gaz. vol. 154; p. 768.

Still, Andrew T., Kirksville, Mo. Burner. No. 956,223; Apr. 26; Sp. p. 5515; Gaz. vol. 153; p. 962.

Still, Ernest H., London, England. Incandescent gas-lamp. No. 973,580; Oct. 25; Sp. p. 4549; Gaz. vol. 159; p. 793.

Still, William M., and A. G. Adamson, London, England. Steam-trap. No. 968,812; Aug. 30; Sp. p. 6356; Gaz. vol. 157; p. 1108.

Stillesen, Job M. A. (See Meyer and Stillesen.)

Stilling, William J. (See Smith and Stilling.)

Stillman, Francis H., New York, N. Y. Hydraulic press. No. 968,999; Aug. 30; Sp. p. 6726; Gaz. vol. 157; p. 1171.

Stillman, George F., deceased; M. D. Stillman, administratrix, assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 964,822; July 19; Sp. p. 3985; Gaz. vol. 156; p. 663.

Stillman, Howard, Berkeley, Cal. Car-roof. No. 973,888; Oct. 25; Sp. p. 5196; Gaz. vol. 159; p. 902.

Stillman, Mabel D., administratrix. (See Stillman, George F.)

Stillwell, Howard A., Woodbury, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Machine for assembling shells in shell-holders. No. 952,477; Mar. 22; Sp. p. 4073; Gaz. vol. 152; p. 753.

Stillwell, Howard A., Woodbury, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Mechanism for printing boxes. No. 978,409; Dec. 13; Sp. p. 2145; Gaz. vol. 161; p. 373.

Stillwell, Joseph W., New York, N. Y. Steam-nozzle. No. 958,444; May 17; Sp. p. 4460; Gaz. vol. 154; p. 729.

Stilwell, Charles B., Wayne, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Drier. No. 949,855; Feb. 22; Sp. p. 4357; Gaz. vol. 151; p. 782.

Stilwell, Charles B., Wayne, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Fault detecting and corrective apparatus for paper-working machinery. No. 955,221; Apr. 19; Sp. p. 3292; Gaz. vol. 153; p. 589.

Stilwell, Charles B., Wayne, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Web-feeding mechanism. No. 964,130; July 12; Sp. p. 2430; Gaz. vol. 156; p. 398.

Stilz, Harry B., Bath, Me. Oil-burner. No. 945,873; Jan. 11; Sp. p. 1935; Gaz. vol. 150; p. 322.

Stimmel, Frederick C. (See Bauer and Stimmel.)

Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom. No. 953,185; Mar. 29; Sp. p. 5612; Gaz. vol. 152; p. 1020.

Stimpson, Edward S., Hopedale, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Automatic weft-replenishing loom. No. 964,580; July 19; Sp. p. 3397; Gaz. vol. 156; p. 580.

Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Shuttle. No. 964,708; July 19; Sp. p. 3757; Gaz. vol. 156; p. 625.

Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Filling-feeder for filling-replenishing looms. No. 966,615; Aug. 9; Sp. p. 1671; Gaz. vol. 157; p. 286.

Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Automatic weft-replenishing loom. No. 972,942; Oct. 18; Sp. p. 3169; Gaz. vol. 159; p. 552.

Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Weft-supplying mechanism for looms. No. 972,943; Oct. 18; Sp. p. 3174; Gaz. vol. 159; p. 552.

Stimpson, Edwin B. (See Hays, Davis, assignor.)

Stimpson, Edwin B., New York, N. Y. Rivet. No. 951,997; Mar. 15; Sp. p. 3127; Gaz. vol. 152; p. 564.

Stimpson, Edwin B., New York, N. Y., assignor to Edwin B. Stimpson Company. Antiskidding device. No. 945,057; Jan. 4; Sp. p. 105; Gaz. vol. 150; p. 18.

Stimpson, Edwin B., New York, N. Y., assignor to Edwin B. Stimpson Company. Envelop-fastener. No. 954,479; Apr. 12; Sp. p. 1670; Gaz. vol. 153; p. 302.

Stimpson, Edwin B., New York, N. Y., assignor to Edwin B. Stimpson Company. Rivet. No. 959,177; May 24; Sp. p. 5995; Gaz. vol. 154; p. 1002.

Stimpson, Edwin B., New York, N. Y., assignor to Edwin B. Stimpson Company. Rivet. No. 962,794; June 28; Sp. p. 5403; Gaz. vol. 155; p. 943.

Stimpson, Edwin B., Brooklyn, N. Y., assignor to Edwin B. Stimpson Company. Punching-machine. No. 978,506; Dec. 13; Sp. p. 2350; Gaz. vol. 161; p. 405.

Stimpson, Milton S., Roodhouse, Ill. Gang-plow attachment. No. 973,145; Oct. 18; Sp. p. 3606; Gaz. vol. 159; p. 621.

Stinchcomb, Jefferson D. (See Budesheim and Stinchcomb.)

Stine, Albert E., Avena, Ill. Railway-joint. No. 969,122; Aug. 30; Sp. p. 6981; Gaz. vol. 157; p. 1215.

Stine, William A., and C. A. Meals, Peoria, Ill. Corn-popper. No. 956,224; Apr. 26; Sp. p. 5516; Gaz. vol. 153; p. 962.

Stinecipher, Samuel C. (See Peters, Hart, and Stinecipher.)

Stineman, William H. H., assignor of one-half to R. A. Taylor, Baltimore, Md. Stoker. No. 970,660; Sept. 20; Sp. p. 3254; Gaz. vol. 158; p. 561.

Stiner, Savenious C. (See Lamp and Stiner.)

Stines, Fred, Newton, Iowa. Washing-machine. No. 947,285; Jan. 25; Sp. p. 5057; Gaz. vol. 150; p. 855.

Stinson, James H., Cooke, Mont. Gun-muffler. No. 959,400; May 24; Sp. p. 6428; Gaz. vol. 154; p. 1075.

Stinson, Robert. (See Guyton, William, assignor.)

Stinson, William A., Greenwood, Miss. Swingletree and trace connection. No. 955,613; Apr. 19; Sp. p. 4147; Gaz. vol. 153; p. 722.

Stipe, Robert and W., Oakland, assignors of one-fourth to L. D. Field, San Francisco, and one-fourth to A. J. Boitano, Oakland, Cal. Abrading-roller. No. 967,079; Aug. 9; Sp. p. 2690; Gaz. vol. 157; p. 441.

Stipe, William. (See Stipe, Robert and W.))

Stipkowitsch, Nikolaus, Berlin, Germany. Advertising device. No. 956,309; Feb. 22; Sp. p. 5361; Gaz. vol. 151; p. 941.

Stipp, Peter, Scranton, Pa. Furnace. No. 971,416; Sept. 27; Sp. p. 4801; Gaz. vol. 158; p. 840.

Stiriz, Charles, New York, N. Y. Explosive shell and making same. No. 950,032; Feb. 22; Sp. p. 4808; Gaz. vol. 151; p. 846.

Stirling, Alison B., Pleasant Mount, Pa. Superheating-boiler. No. 963,257; July 5; Sp. p. 595; Gaz. vol. 156; p. 82.

Stirling, Alison B., Pleasant Mount, Pa. Boiler construction. No. 977,143; Nov. 29; Sp. p. 6783; Gaz. vol. 160; p. 1153.

Stirling, Alison B., Pleasant Mount, Pa. Boiler construction. No. 977,144; Nov. 29; Sp. p. 6786; Gaz. vol. 160; p. 1153.

Stirrup, Charles H., *et al.* (See Heissenberger, John, assignor.)

Stirrup, Frank A., *et al.* (See Heissenberger, John, assignor.)

Alphabetical list of patentees—Continued.

Stitchman, Frederick G., Estevan, Saskatchewan, Canada, assignor to La Crosse Plow Company, La Crosse, Wis. Seeder. No. 953,929; Apr. 5; Sp. p. 488; Gaz. vol. 153; p. 89.

Stites, Charles W., New York, N. Y. Saw. No. 973,231; Oct. 18; Sp. p. 3814; Gaz. vol. 159; p. 652.

Stites, Frank. (See Stites, John G. and F.)

Stites, John G., Willowbrook, and F. Stites, Los Angeles, Cal. Flying-machine supporting-plane. No. 965,491; July 26; Sp. p. 5373; Gaz. vol. 156; p. 920.

Stites, Watson B., Hiawatha, Kans. Wagon-tongue. No. 977,568; Dec. 6; Sp. p. 349; Gaz. vol. 161; p. 51.

Stitzel, Arthur P., Louisville, Ky. Freeing fermented mash and the like from noxious odors and flavors. No. 956,650; May 3; Sp. p. 310; Gaz. vol. 154; p. 51.

Stitzel, Frederick, Louisville, Ky. Railway-crossing. No. 963,258; July 5; Sp. p. 597; Gaz. vol. 156; p. 83.

Stitzer, George K., assignor of one-third to F. B. Evers, Louisville, Ky. Knockdown barrel. No. 949,309; Feb. 15; Sp. p. 3199; Gaz. vol. 151; p. 564.

Stiver, William J., Grove, Okla. Bench-dog. No. 960,053; May 31; Sp. p. 7890; Gaz. vol. 154; p. 1325.

Stivers Automatic Cover Company, The. (See Stivers, Jake M., assignor.)

Stivers, Frederick E. (See Brainard, Julius D., assignor.)

Stivers, Jackson, Escondido, Cal. Retaining-slug for printers' type-forms. No. 964,328; July 12; Sp. p. 2821; Gaz. vol. 156; p. 465.

Stivers, Jake M., Salida, Colo. Game apparatus. No. 974,721; Nov. 1; Sp. p. 1457; Gaz. vol. 160; p. 225.

Stivers, Jake M., Oklahoma, Okla., assignor to The Stivers Automatic Cover Company. Lock for pool and billiard tables. No. 964,581; July 19; Sp. p. 3401; Gaz. vol. 156; p. 581.

Stivers, Jake M., Oklahoma, Okla., assignor to The Stivers Automatic Cover Company. Coin-controlled game-table cover. No. 971,222; Sept. 27; Sp. p. 4443; Gaz. vol. 158; p. 778.

Stix, Solomon H., Chicago, Ill. Merchandizing-sample. No. 946,165; Jan. 11; Sp. p. 2538; Gaz. vol. 150; p. 423.

Stobaugh, Daniel J., *et al.* (See Alden, James M., assignor.)

Stock, Albert A., Paicines, Cal. Switch throwing and locking device. No. 954,548; Apr. 12; Sp. p. 1815; Gaz. vol. 153; p. 326.

Stock, Augusta M. (See Stock, Robert and A. M.)

Stock, Augusta M., assignor to Robert Stock Manufacturing Co., Buffalo, N. Y. Barrel-tapping device. No. 961,739; June 14; Sp. p. 3090; Gaz. vol. 155; p. 534.

Stock Quotation Telegraph Company, The. (See Burry, John, assignor.)

Stock Quotation Telegraph Company, The. (See Hiltz, George S., assignor.)

Stock, Robert and A. M., assignors to Robert Stock Manufacturing Co., Buffalo, N. Y. Handle for bungs, &c. No. 975,174; Nov. 8; Sp. p. 2490; Gaz. vol. 160; p. 403.

Stockbridge, Radford, assignor of one-half to A. W. Beaman, Worcester, Mass. Variable-speed driving mechanism. No. 979,589; Dec. 27; Sp. p. 4695; Gaz. vol. 161; p. 824.

Stockdale, Thomas J., Dubois, Pa. Stereoscope. No. 945,631; Jan. 4; Sp. p. 1340; Gaz. vol. 150; p. 208.

Stöckel, Frants C., and J. L. T. Popp, Copenhagen, Denmark. Machine for filling bottles. No. 969,572; Sept. 6; Sp. p. 903; Gaz. vol. 158; p. 143.

Stocker Concrete Material Washer Company. (See Stocker, Fredrich, assignor.)

Stocker, Fred, assignor of one-half to G. M. Meyer, Saginaw, Mich. Cigar-lighter. No. 961,264; June 14; Sp. p. 2074; Gaz. vol. 155; p. 373.

Stocker, Fredrich, assignor to Stocker Concrete Material Washer Company, Highland, Ill. Washing apparatus. No. 966,869; Aug. 9; Sp. p. 2246; Gaz. vol. 157; p. 369.

Stocker, John W., Chicago, Ill. Pasting or gumming machine. No. 974,535; Nov. 1; Sp. p. 1062; Gaz. vol. 160; p. 159.

Stocker, Joseph J., St. Louis, Mo., assignor to Stocker Manufacturing Company. Blower. No. 963,957; July 12; Sp. p. 2067; Gaz. vol. 156; p. 337.

Stocker Manufacturing Company. (See Stocker, Joseph J., assignor.)

Stockford, Thomas E., Williams, Cal. Nut-lock. No. 969,306; Sept. 6; Sp. p. 322; Gaz. vol. 158; p. 53.

Stockford, Thomas E., Williams, Cal. Bridge-floor. No. 972,482; Oct. 11; Sp. p. 2091; Gaz. vol. 159; p. 364.

Stockford, William F., South Bend, Ind. Fishing-reel. No. 975,653; Nov. 15; Sp. p. 3511; Gaz. vol. 160; p. 593.

Stockham, William H., assignor to Schaefer Manufacturing Company, Birmingham, Ala. Split pulley. No. 948,080; Feb. 1; Sp. p. 629; Gaz. vol. 151; p. 102.

Stockham, William H., assignor to Schaefer Manufacturing Company, Birmingham, Ala. Split pulley. No. 976,227; Nov. 22; Sp. p. 4732; Gaz. vol. 160; p. 812.

Stockhausen, Julius, Crefeld, Germany. Compound or emulsion and production of same. No. 966,136; Aug. 2; Sp. p. 605; Gaz. vol. 157; p. 100.

Stockheim, Heinrich, Mannheim, Germany. Filter-basin for brewing purposes. No. 953,495; Mar. 29; Sp. p. 6285; Gaz. vol. 152; p. 1126.

Stocking, Bert A., and H. Mendenhall, Audobon, Iowa. Gearing for washing-machines. No. 946,790; Jan. 18; Sp. p. 3975; Gaz. vol. 150; p. 661.

Stocking, Clark I., Hiawatha, Kans. Post-brace anchor. No. 948,532; Feb. 8; Sp. p. 1582; Gaz. vol. 151; p. 279.

Stocking, Milton D., Lindenwood, Ill. Supplemental wheel. No. 945,058; Jan. 4; Sp. p. 105; Gaz. vol. 150; p. 18.

Stockinger, George, Los Angeles, Cal. Tool-case. No. 953,930; Apr. 5; Sp. p. 490; Gaz. vol. 153; p. 89.

Stockley, Frederick A., Montour Falls, N. Y. Concrete pipe. No. 958,043; May 17; Sp. p. 3451; Gaz. vol. 154; p. 590.

Stocklmier, Matthias, Cupertino, Cal., assignor of one-sixth to A. P. Lahmer and one-sixth to G. J. Lens, San Jose, Cal. Educational novelty. No. 971,865; Oct. 4; Sp. p. 755; Gaz. vol. 159; p. 131.

Stockman, Henry. (See Brown, Henry C., assignor.)

Stockmann, Fred B., Cincinnati, Ohio, assignor, by mesne assignments, to M. Frelinger, Newport, Ky. Agitator or stirrer for paint-barrels and the like. No. 972,727; Oct. 11; Sp. p. 2648; Gaz. vol. 159; p. 450.

Stockmann, Peter J. A., St. Louis, Mo. Weighing-machine. No. 976,228; Nov. 22; Sp. p. 4734; Gaz. vol. 160; p. 812.

Stockmeier, Hans. (See Berger, Joseph T., assignor.)

Stocks, Joseph. (See Kiser, Lewis C., assignor.)

Stockton, Charles C., Little Rock, Ark. Rail-joint. No. 965,124; July 19; Sp. p. 4584; Gaz. vol. 156; p. 765.

Stockton, Thomas J., Washington, D. C. Smoker's pipe. No. 967,850; Aug. 16; Sp. p. 4261; Gaz. vol. 157; p. 729.

Stockwell, Abner H., assignor to Harrington & Richardson Arms Company, Worcester, Mass. Firearm. No. 954,657; Apr. 12; Sp. p. 2068; Gaz. vol. 153; p. 363.

Stockwell, John, Marine City, Mich. Gage-cock. No. 964,329; July 12; Sp. p. 2822; Gaz. vol. 156; p. 465.

Stockwell, Millard E., assignor to Murray Show Case and Fixture Company, Los Angeles, Cal. Furniture construction. No. 950,194; Feb. 22; Sp. p. 5131; Gaz. vol. 151; p. 901.

Stodd, Alexander F. F., Paterson, N. J. Incandescent electric lamp. No. 962,795; June 28; Sp. p. 5404; Gaz. vol. 155; p. 943.

Stoddard, Albert A. (See Foster and Stoddard.)

Stoddard, Charles F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Carrier for pneumatic-despatch-tube apparatus. No. 962,796; June 28; Sp. p. 5405; Gaz. vol. 155; p. 943.

Stoddard, Charles F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch-tube apparatus. No. 962,797; June 28; Sp. p. 5408; Gaz. vol. 155; p. 944.

Stoddard, Charles F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch-tube apparatus. No. 975,903; Nov. 15; Sp. p. 4015; Gaz. vol. 160; p. 677.

Stoddard, Edwin T., Whittier, Cal. Shade-holder. No. 967,458; Aug. 16; Sp. p. 3464; Gaz. vol. 157; p. 597.

Stoddard, Hatherley A., Salem, Mass. Steam-cooker. No. 948,149; Feb. 1; Sp. p. 761; Gaz. vol. 151; p. 125.

Stoddard, James T., Portland, Oreg. Saw-shifter for gang-edgers. No. 967,994; Aug. 23; Sp. p. 4568; Gaz. vol. 157; p. 801.

Stoddard, Justen, Stillwater, Minn. Piston-ring. No. 962,599; June 28; Sp. p. 4999; Gaz. vol. 155; p. 875.

Stoddard, Maude R., New York, N. Y. Latch. No. 970,661; Sept. 20; Sp. p. 3256; Gaz. vol. 158; p. 561.

Stoddard, Thomas G., assignor to The American Postal Machines Company, Boston, Mass. Mail-marking machine. No. 948,712; Feb. 8; Sp. p. 1975; Gaz. vol. 151; p. 339.

Stoddard, Thomas G., and G. H. Barbour, assignors to The American Postal Machines Company, Boston, Mass. Mail-marking machine. No. 950,521; Mar. 1; Sp. p. 130; Gaz. vol. 152; p. 21.

Stoddard, William H. (See Morton and Stoddard.)

Stoddard, William H., Somerville, Mass. Union. No. 966,870; Aug. 9; Sp. p. 2248; Gaz. vol. 157; p. 370.

Stoelt, John H., Sebewaing, Mich. Boat lowering and launching means. No. 950,967; Mar. 1; Sp. p. 1058; Gaz. vol. 152; p. 169.

Stoeser, Alexander J., Chicago, Ill. Machine for molding concrete walls and the like. No. 953,720; Apr. 5; Sp. p. 72; Gaz. vol. 153; p. 16.

Stoetzel, Joseph J., assignor of one-half to H. J. Cohn, Chicago, Ill. Pneumatic transmission system. No. 959,642; May 31; Sp. p. 6945; Gaz. vol. 154; p. 1183.

Stoffels, Henry J., Norwood, assignor to The Stacey Manufacturing Company, Elmwood, Ohio. Guide-frame for gas-holders. No. 972,785; Oct. 11; Sp. p. 2758; Gaz. vol. 159; p. 469.

Stoffer, Jacob L., Homeworth, assignor of one-half to R. R. Greeneisen, Columbiana county, Ohio. Tool-holder. No. 958,945; May 24; Sp. p. 5509; Gaz. vol. 154; p. 925.

Stohr, Philip L., Elgin, Ill. Electric paper-cutter. No. 947,744; Jan. 25; Sp. p. 6057; Gaz. vol. 150; p. 1010.

Stoker, Albert E., Detroit, Mich. Carbureter. No. 955,222; Apr. 19; Sp. p. 3298; Gaz. vol. 153; p. 589.

Stoker, Alfred W., London, England. Apparatus for the manufacture of sheet-metal cans or boxes. No. 949,406; Feb. 15; Sp. p. 3431; Gaz. vol. 151; p. 599.

Stoker, William, Somerton, Pa. Celery-digger. No. 968,432; Aug. 23; Sp. p. 5517; Gaz. vol. 157; p. 952.
Stokes, George W., Philadelphia, Pa. Tapestry-printing machine. No. 953,931; Apr. 5; Sp. p. 490; Gaz. vol. 153; p. 89.
Stokes, Levi, and T. M. Vickers, Richmond, Cal. Liquid-fuel burner. No. 955,715; Apr. 19; Sp. p. 4384; Gaz. vol. 153; p. 757.
Stokes, W. E. D., *et al.* (See Larsson and Smith, assignors.)
Stokes, William E. D. (See Armstrong, Charles G., assignor.)
Stokes, William E. D., *et al.* (See Larsson, Thure, assignor.)
Stolkrantz, John W., Jamestown, assignor of one-half to R. T. Harris, Buffalo, N. Y. Sewer-cleaning apparatus. No. 965,249; July 26; Sp. p. 4849; Gaz. vol. 156; p. 838.
Stollberg, Walter C., Quincy, Ill. Compound instrument. No. 963,405; July 5; Sp. p. 892; Gaz. vol. 156; p. 131.
Stolp, Samuel S., Glencoe, assignor of one-half to W. J. C. Kenyon, Chicago, Ill. Elevator safety device. No. 957,123; May 3; Sp. p. 1328; Gaz. vol. 154; p. 212.
Stolp, Samuel S., assignor to W. J. C. Kenyon, Chicago, Ill. Telephone system. No. 979,590; Dec. 27; Sp. p. 4696; Gaz. vol. 161; p. 824.
Stoltey, Albert M., Newark, N. J. Expanded wood lamina. No. 974,536; Nov. 1; Sp. p. 1067; Gaz. vol. 160; p. 159.
Stone, Alvin M., London, England, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 948,799; Feb. 8; Sp. p. 2163; Gaz. vol. 151; p. 368.
Stone, Arthur C., assignor to The Metal Products Corporation, Providence, R. I. Joint for pin-tongues. No. 964,330; July 12; Sp. p. 2823; Gaz. vol. 156; p. 466.
Stone, Arthur E., and F. L. O'Bryan, Framingham, Mass. Recording fare-register. No. 973,315; Oct. 18; Sp. p. 3975; Gaz. vol. 159; p. 680.
Stone, Axel H., Marshalltown, Iowa. Sliding-door lock. No. 973,990; Oct. 25; Sp. p. 5403; Gaz. vol. 159; p. 937.
Stone, Charles R. (See Wise, William D., assignor.)
Stone, Charles W., Hollywood, Cal., assignor of one-half to A. F. Gilmore, Los Angeles, Cal. Casing-tongs. No. 955,560; Apr. 19; Sp. p. 4011; Gaz. vol. 153; p. 703.
Stone, Edward, Los Angeles, Cal. Rule-gage. No. 955,369; Apr. 19; Sp. p. 3616; Gaz. vol. 153; p. 638.
Stone, Edwin M., Detroit, Mich. Rudder-telltale. No. 945,819; Jan. 11; Sp. p. 1805; Gaz. vol. 150; p. 302.
Stone, Elmer B., assignor to The Corbin Cabinet Lock Company, New Britain, Conn. Lock. No. 964,331; July 12; Sp. p. 2825; Gaz. vol. 156; p. 466.
Stone, George C., New York, N. Y., and R. H. Dodd, Palmerton, Pa. Gas-producer. No. 955,614; Apr. 19; Sp. p. 4148; Gaz. vol. 153; p. 722.
Stone, George C., New York, N. Y., and R. H. Dodd, Palmerton, Pa. Gas-producer. No. 955,615; Apr. 19; Sp. p. 4150; Gaz. vol. 153; p. 722.
Stone, George W., Jr., Burlington, assignor of one-half to H. J. Julien, Milwaukee, Wis. Grease-gun. No. 976,945; Nov. 29; Sp. p. 6326; Gaz. vol. 160; p. 1084.
Stone, Harold, Syracuse, N. Y. External shoe-tree. No. 947,951; Feb. 1; Sp. p. 361; Gaz. vol. 151; p. 58.
Stone, James, Cleveland, Ohio. Valve. No. 957,012; May 3; Sp. p. 1113; Gaz. vol. 154; p. 175.
Stone, John A., Chicago, Ill. Corn-husker. No. 948,297; Feb. 1; Sp. p. 1072; Gaz. vol. 151; p. 174.
Stone, John A., Chicago, Ill. Corn-harvester. No. 949,736; Feb. 15; Sp. p. 4069; Gaz. vol. 151; p. 706.
Stone, John A., Chicago, Ill., assignor to International Harvester Company. Tongue-truck for harvesters. No. 946,885; Jan. 18; Sp. p. 4223; Gaz. vol. 150; p. 695.
Stone, John F. (See Lefler, Frank C., assignor.)
Stone, John J., Beresford, S. D. Odometer. No. 966,263; Aug. 2; Sp. p. 893; Gaz. vol. 157; p. 142.
Stone, John J., and J. A. Simpson, Beresford, S. D. Resilient wheel. No. 972,283; Oct. 11; Sp. p. 1685; Gaz. vol. 159; p. 296.
Stone, John M., Newberg, Oreg. Screen. No. 971,701; Oct. 4; Sp. p. 397; Gaz. vol. 159; p. 69.
Stone, John S., Cambridge, Mass. Space telegraphy. No. 946,166; Jan. 11; Sp. p. 2540; Gaz. vol. 150; p. 424.
Stone, John S., Boston, Mass. Space telegraphy. No. 946,167; Jan. 11; Sp. p. 2545; Gaz. vol. 150; p. 424.
Stone, John S., Boston, Mass. Space telegraphy. No. 946,168; Jan. 11; Sp. p. 2547; Gaz. vol. 150; p. 424.
Stone, John S., Boston, Mass. Apparatus for determining the direction of space-telegraph signals. No. 961,265; June 14; Sp. p. 2075; Gaz. vol. 155; p. 373.
Stone, Lewis S. (See Hartford, Taylor, and Stone.)
Stone, Melvin L., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Automatic weft-replenishing loom. No. 964,582; July 19; Sp. p. 3402; Gaz. vol. 156; p. 581.
Stone, Melvin L., Lewiston, Me., assignor to Draper Company, Hopedale, Mass. Picker check-strap holder for looms. No. 972,944; Oct. 18; Sp. p. 3177; Gaz. vol. 159; p. 553.
Stone, Melvin L., Lewiston, Me., assignor to Draper Company, Hopedale, Mass. Loom. No. 979,718; Dec. 27; Sp. p. 4959; Gaz. vol. 161; p. 869.
Stone, Ralph J., Detroit, Mich. Shield for tires. No. 464,131; July 12; Sp. p. 2433; Gaz. vol. 156; p. 399.
Stone, Reuben S., Gardner, Mass. Convertible go-cart. No. 952,648; Mar. 22; Sp. p. 4458; Gaz. vol. 152; p. 812.
Stone, Richard W., assignor of fifty-one one-hundredths to D. D. Thomas, Lincoln, Nebr. Riding-saddle. No. 969,995; Sept. 13; Sp. p. 1844; Gaz. vol. 158; p. 314.
Stone, Spencer A., Chillicothe, Mo. Road-grader. No. 962,267; June 21; Sp. p. 4256; Gaz. vol. 155; p. 736.
Stone, Thomas W., Fort Wayne, Ind. High-pressure gate-valve. No. 970,764; Sept. 20; Sp. p. 3488; Gaz. vol. 158; p. 597.
Stone and Webster. (See Buchanan, Leonard B., assignor.)
Stone, William, Milwaukee, Wis. Grinding-wheel guard. No. 953,496; Mar. 29; Sp. p. 6286; Gaz. vol. 152; p. 1126.
Stone, William C., La Fayette, Ind. Deflector for nozzles. No. 955,294; Apr. 19; Sp. p. 3448; Gaz. vol. 153; p. 612.
Stonebraker, Petie O., *et al.* (See Mikolasek, Wenceslaus F., assignor.)
Stonebridge, Charles H., New York, N. Y. Sparking device. No. 963,334; July 5; Sp. p. 744; Gaz. vol. 156; p. 108.
Stonebridge, Charles H., New York, N. Y. Folding lantern. No. 963,826; July 12; Sp. p. 1798; Gaz. vol. 156; p. 295.
Stoner, Christian F., and F. B. Trout, Lancaster, Pa. Fly-paper holder. No. 959,898; May 31; Sp. p. 7508; Gaz. vol. 154; p. 1268.
Stoner, Christian F., and F. B. Trout, Lancaster, Pa. Fly-paper holder. No. 963,958; July 12; Sp. p. 2069; Gaz. vol. 156; p. 338.
Stoner, Christian F., and F. B. Trout, Lancaster, Pa. Fly-paper holder. No. 969,219; Sept. 6; Sp. p. 162; Gaz. vol. 158; p. 27.
Stoner, Frank, assignor to Wilder-Strong Implement Company, Monroe, Mich. Deflector. No. 968,713; Aug. 30; Sp. p. 6158; Gaz. vol. 157; p. 1075.
Stonestreet, Arthur W., Pasadena, Cal. Hat-fastener. No. 967,080; Aug. 9; Sp. p. 2691; Gaz. vol. 157; p. 442.
Stoney, George G. (See Parsons, Stoney, and Bennett.)
Stoney, George G. (See Parsons, Stoney, Carnegie, and Bowerbank.)
Stoneybrook Paper Company. (See Perkins, Stanley, Putnam, and Montgomery, assignors.)
Stoops, Harry J., Houston, Tex. Cotton-picking machine. No. 969,419; Sept. 6; Sp. p. 573; Gaz. vol. 158; p. 92.
Storelee, Edd O., Enderlin, N. D. Feed-box. No. 947,262; Jan. 25; Sp. p. 4984; Gaz. vol. 150; p. 847.
Storelee, Edd O., Enderlin, N. D. Lock. No. 972,728; Oct. 11; Sp. p. 2650; Gaz. vol. 159; p. 450.
Storer, Norman W., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Armature-winding for dynamo-electric machines. No. 975,476; Nov. 15; Sp. p. 3118; Gaz. vol. 160; p. 533.
Storer, Norman W., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Armature-winding for dynamo-electric machines. No. 975,477; Nov. 15; Sp. p. 3119; Gaz. vol. 160; p. 533.
Storer, Norman W., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Armature-winding for dynamo-electric machines. No. 975,478; Nov. 15; Sp. p. 3121; Gaz. vol. 160; p. 533.
Storey, Andrew W., Manchester, England. Manufacture of woven-wire netting. No. 966,137; Aug. 2; Sp. p. 606; Gaz. vol. 157; p. 100.
Storey, Andrew W., Manchester, England. Machine for weaving wire-netting. No. 976,946; Nov. 29; Sp. p. 6327; Gaz. vol. 160; p. 1084.
Storey, Gilbert. (See Storey, William J. and G.)
Storey, Henry, *et al.* (See Hallowell, William, assignor.)
Storey, Isaac H. (See Kitchen and Storey.)
Storey, John P., New York, N. Y. Exercising apparatus. No. 972,284; Oct. 11; Sp. p. 1686; Gaz. vol. 159; p. 297.
Storey, Wendel, Milwaukee, Wis. Sprinkler. No. 963,089; July 5; Sp. p. 128; Gaz. vol. 156; p. 22.
Storey, William E., *et al.* (See Hallowell, William, assignor.)
Storey, William J. and G., Albert Park, near Melbourne, Victoria, Australia. Smoke-preventing and fuel-economizing appliance. No. 973,991; Oct. 25; Sp. p. 5405; Gaz. vol. 159; p. 938.
Storm, Ora G., Longmont, Colo. Steam-cooker. No. 979,591; Dec. 27; Sp. p. 4699; Gaz. vol. 161; p. 825.
Stormer, Harry S., Johnstown, Pa. Boiler tube and flue cleaner. No. 949,637; Feb. 15; Sp. p. 3873; Gaz. vol. 151; p. 675.
Stormer, Harry S., Johnstown, Pa. Motor for tube-cleaners. No. 949,638; Feb. 15; Sp. p. 3876; Gaz. vol. 151; p. 675.
Storms, George W., Louisville, Ky. Culvert-head. No. 961,908; June 21; Sp. p. 3466; Gaz. vol. 155; p. 613.
Storms, Henry M. (See Linegar and Storms.)
Storne, William H., assignor of one-third to G. Gilbert and one-third to J. W. Moffly, Sault Ste. Marie, Mich. Mail-bag catching and delivering apparatus. No. 950,562; Mar. 1; Sp. p. 214; Gaz. vol. 152; p. 35.
Storrs, Aaron P., Owego, N. Y. Needle-valve. No. 969,573; Sept. 6; Sp. p. 905; Gaz. vol. 158; p. 144.
Storrs, William H., New York, N. Y. Pipe. No. 961,042; June 7; Sp. p. 1616; Gaz. vol. 155; p. 270.

Alphabetical list of patentees—Continued.

Story, John H., and F. C. Winkel, Woodbury, N. J., assignors to H. D. Weed, Syracuse, N. Y. Wheel. No. 953,645; Mar. 29; Sp. p. 6591; Gaz. vol. 152; p. 1177.
Story, Leonard L., East Fairfield, Vt. Mechanical milker. No. 969,761; Sept. 6; Sp. p. 1308; Gaz. vol. 158; p. 210.
Stössel, Hugo. (See Genest and Stössel.)
Stotler, Freddie D., Mansfield, Ohio. Self-heating sad-iron. No. 966,717; Aug. 9; Sp. p. 1895; Gaz. vol. 157; p. 320.
Stott Signal Company, The. (See Dickey, Lester O., assignor.)
Stott, Wellington, London, England. Advertising or amusement device. No. 971,091; Sept. 27; Sp. p. 4161; Gaz. vol. 158; p. 734.
Stotts Signal Company. (See Streeter, Royal A., assignor.)
Stouder, Herman R., Newton, Iowa. Cigar-vending machine. No. 958,191; May 17; Sp. p. 3793; Gaz. vol. 154; p. 641.
Stouffer, Benjamin W., Pittsburg, Pa. Lock for swing-joints. No. 961,552; June 14; Sp. p. 2716; Gaz. vol. 155; p. 471.
Stough, Sylvester L., *et al.* (See Ashford, Thomas B., assignor.)
Stoughton, Joseph M. (See Hess and Stoughton.)
Stoup, George G., Latrobe, Pa. Spark-arrester. No. 960,430; June 7; Sp. p. 387; Gaz. vol. 155; p. 65.
Stout, Abraham B. (See Ellingson, John O., assignor.)
Stout, Abraham B. (See Ellingson and Stout.)
Stout, Daniel, Wilmington, Ohio. House-moving carriage. No. 955,223; Apr. 19; Sp. p. 3300; Gaz. vol. 153; p. 590.
Stout, Isaac R., Walla Walla, Wash. Pump. No. 950,968; Mar. 1; Sp. p. 1060; Gaz. vol. 152; p. 169.
Stout, John N., Lewis, Ind. Corn-planter. No. 948,260; Feb. 1; Sp. p. 978; Gaz. vol. 151; p. 161.
Stout, John N., Lewis, Ind. Corn-planter. No. 967,851; Aug. 16; Sp. p. 4263; Gaz. vol. 157; p. 729.
Stout, Otto E., Ozark, Ill. Folding shipping-crate. No. 946,948; Jan. 18; Sp. p. 4351; Gaz. vol. 150; p. 715.
Stout, Walter G., Philadelphia, Pa. Poultry-house. No. 975,733; Nov. 15; Sp. p. 3675; Gaz. vol. 160; p. 619.
Stovall, Benjamin F., Paradise, Tex. Cultivator. No. 977,051; Nov. 29; Sp. p. 6570; Gaz. vol. 160; p. 1121.
Stovall, Joseph R., assignor of one-half to C. B. Irwin, Atwood, Okla. Combined cotton chopper and cultivator. No. 977,340; Nov. 29; Sp. p. 7180; Gaz. vol. 160; p. 1221.
Stover, Frank E., Luray, Va. Acetylene-gas generator. No. 955,997; Apr. 26; Sp. p. 4996; Gaz. vol. 153; p. 883.
Stover, Frank E., Luray, Va. Acetylene-generator. No. 972,285; Oct. 11; Sp. p. 1687; Gaz. vol. 159; p. 297.
Stow, William H., Fennville, assignor to M. R. Bissell, Grand Rapids, Mich. Folding chair. No. 954,221; Apr. 5; Sp. p. 1130; Gaz. vol. 153; p. 188.
Stow, William H., Fennville, assignor to M. R. Bissell, Grand Rapids, Mich. Disappearing chair. No. 954,222; Apr. 5; Sp. p. 1134; Gaz. vol. 153; p. 188.
Stowby, Peter N., and E. M. Hatch, assignors of three-fourths to P. N. Stowby and one-fourth to E. M. Hatch, Brooklyn, N. Y. Station-indicator and similar device. No. 974,537; Nov. 1; Sp. p. 1069; Gaz. vol. 160; p. 159.
Stowe, Bernard A., assignor to The Jandus Electric Company, Cleveland, Ohio. Electrolier. No. 949,946; Feb. 22; Sp. p. 4563; Gaz. vol. 151; p. 815.
Stowe, Horace W., Meriden, Conn. Mechanism for covering leaf-pneumatics. No. 974,446; Nov. 1; Sp. p. 849; Gaz. vol. 160; p. 125.
Stowe, Larkin, Pleasant View, Ky. Dispensing-receptacle. No. 979,592; Dec. 27; Sp. p. 4702; Gaz. vol. 161; p. 825.
Stowell, Byron F., assignor of one-third to R. W. Ellingham and one-third to W. Hadley, Springfield, Mass. Slotting-machine. No. 978,073; Dec. 6; Sp. p. 1398; Gaz. vol. 161; p. 225.
Stowell, John E. (See Stowell, Marion R. and J. E.)
Stowell Manufacturing and Foundry Company. (See Davis and Evans, assignors.)
Stowell, Marion R. and J. E., Pillager, Minn. Single-delivery match-receptacle and cigar-cutter. No. 960,431; June 7; Sp. p. 389; Gaz. vol. 155; p. 65.
Stowell, William G., assignor to The W. G. Stowell Company, Dayton, Ohio. Water-motor. No. 956,225; Apr. 26; Sp. p. 5518; Gaz. vol. 153; p. 963.
Stoy, Guy E. (See Blackmond and Stoy.)
Strabley, Ira C., Iowa City, Iowa. Coin-controlled lock. No. 969,000; Aug. 30; Sp. p. 6729; Gaz. vol. 157; p. 1172.
Strachan, Ralph W., Brockton, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Shoe-form. No. 964,132; July 12; Sp. p. 2434; Gaz. vol. 156; p. 399.
Stradtman, Henry. (See Maisel, Conrad M., assignor.)
Stragiotti, Pietro, Hurley, Wis. Structural metal shape. No. 951,348; Mar. 8; Sp. p. 1799; Gaz. vol. 152; p. 316.
Stragiotti, Pietro, Hurley, Wis. Trussed bar for reinforced concrete construction. No. 954,900; Apr. 12; Sp. p. 2650; Gaz. vol. 153; p. 449.
Stragiotti, Pietro, Hurley, Wis. Telephone-transmitter. No. 955,716; Apr. 19; Sp. p. 4386; Gaz. vol. 153; p. 757.
Stragiotti, Pietro, Hurley, Wis. Telephone-transmitter. No. 958,561; May 17; Sp. p. 4678; Gaz. vol. 154; p. 769.
Stragiotti, Pietro, Hurley, Wis. Structural-metal shape for reinforced concrete construction. No. 960,054; May 31; Sp. p. 7892; Gaz. vol. 154; p. 1325.
Stragiotti, Pietro, assignor of one-fourth to G. Thomas, one-fourth to J. Vercellini, and one-fourth to F. Marta, Hurley, Wis. Micro receiver or translator. No. 953,107; Mar. 29; Sp. p. 5445; Gaz. vol. 152; p. 995.
Stragiotti, Pietro, assignor of one-fourth to G. Thomas, one-fourth to J. Vercellini, and one-fourth to F. Marta, Hurley, Wis. Telephone-repeater. No. 954,402; Apr. 5; Sp. p. 1493; Gaz. vol. 153; p. 248.
Stragiotti, Pietro, assignor of one-fourth to G. Thomas, one-fourth to J. Vercellini, and one-fourth to F. Marta, Hurley, Wis. Telephone-repeater. No. 958,560; May 17; Sp. p. 4675; Gaz. vol. 154; p. 768.
Strahl, Howard P., Cleveland, Ohio. Filter. No. 945,632; Jan. 4; Sp. p. 1343; Gaz. vol. 150; p. 208.
Straight, Abraham A., Manchester, Tenn. Poultry-perch. No. 977,980; Dec. 6; Sp. p. 1210; Gaz. vol. 161; p. 194.
Straight Filament Lamp Company. (See O'Brien, Dennis J., assignor.)
Straight, George H., Allentown, assignor of one-third to J. Jordan and one-third to F. A. Jordan, Auburn, R. I. Wrench. No. 945,633; Jan. 4; Sp. p. 1345; Gaz. vol. 150; p. 209.
Strain, William T., and W. H. Locke, assignors to Locke, Fertig and Locke, Robinson, Ill. Injector. No. 950,774; Mar. 1; Sp. p. 680; Gaz. vol. 152; p. 108.
Strait, Andrew V., Sidney, assignor of one-fourth to W. Bronk and one-fourth to F. A. Williams, Oneonta, N. Y. Switch mechanism for electrical alarm apparatus. No. 945,634; Jan. 4; Sp. p. 1346; Gaz. vol. 150; p. 209.
Straker, Tooke G., New York, N. Y. Power-transmission apparatus. No. 959,814; May 31; Sp. p. 7323; Gaz. vol. 154; p. 1240.
Straley, John A., assignor of one-third to O. Bogart, Toledo, Ohio. Railway-crossing. No. 968,282; Aug. 23; Sp. p. 5225; Gaz. vol. 157; p. 900.
Straley, Thomas H., assignor to Standard Elevator Interlock Company, Philadelphia, Pa. Means for locking elevator-car doors. No. 968,283; Aug. 23; Sp. p. 5228; Gaz. vol. 157; p. 900.
Stranahan, Olin A., New York, N. Y. Internal-combustion engine. No. 950,683; Mar. 1; Sp. p. 465; Gaz. vol. 152; p. 75.
Stranahan, Olin A., New York, N. Y. Internal-combustion engine. No. 959,084; May 24; Sp. p. 5798; Gaz. vol. 154; p. 972.
Strance, George, R. S. Bull, and W. P. Norris, Sistersville, W. Va. Stuffing-box. No. 946,408; Jan. 11; Sp. p. 3162; Gaz. vol. 150; p. 509.
Strand, Andrew M. (See Crandall, Arthur F., assignor.)
Strand, Austin. (See Strand, Fred and A.)
Strand, Fred and A., Dennison, Minn. Litter-carrier. No. 978,340; Dec. 13; Sp. p. 2002; Gaz. vol. 161; p. 349.
Strand, Henry, Cleveland, Ohio. Furnace. No. 962,677; June 28; Sp. p. 5148; Gaz. vol. 155; p. 900.
Strand, Samuel, New Haven, Conn. Safety gas-valve. No. 965,665; July 26; Sp. p. 5769; Gaz. vol. 156; p. 982.
Stranden, Emil, Duluth, Minn. Hanging scaffold. No. 955,011; Apr. 12; Sp. p. 2869; Gaz. vol. 153; p. 486.
Strang, Walter C., Yonkers, N. Y. Elevator safety actuating device. No. 969,811; Sept. 13; Sp. p. 1442; Gaz. vol. 158; p. 250.
Strang, William B. (See Nilson, Lars G., assignor.)
Strange, Harry B., Dore, assignor to Thomas Firth & Sons, Limited, Sheffield, England. Percussion-fuse for projectiles. No. 972,034; Oct. 4; Sp. p. 1151; Gaz. vol. 159; p. 193.
Strange, William H., assignor of one-half to R. H. Langston and J. P. Sullivan, Chicago, Ill. Electric rotary floor surfacing, scrubbing, and polishing machine. No. 972,729; Oct. 11; Sp. p. 2653; Gaz. vol. 159; p. 451.
Stransky, Maurice, New York, N. Y. Cooking or heating utensil. No. 977,052; Nov. 29; Sp. p. 6572; Gaz. vol. 160; p. 1121.
Strasburg, Frederick E., deceased; T. Hawley, Rumford Falls, Me., administrator, assignor to Continental Paper Bag Company. Paper-bag machine. No. 945,944; Jan. 11; Sp. p. 2091; Gaz. vol. 150; p. 348.
Strasburg, Harris, and L. Feingold, Denver, Colo. Clasp. No. 951,708; Mar. 8; Sp. p. 2506; Gaz. vol. 152; p. 436.
Strasburger, Frank C. H., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Centering-bell for bottle-filling machines. No. 947,314; Jan. 25; Sp. p. 5129; Gaz. vol. 150; p. 866.
Strasburger, Frank C. H., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Bottle-capping machine. No. 948,461; Feb. 8; Sp. p. 1423; Gaz. vol. 151; p. 254.
Strasburger, Frank C. H., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 948,462; Feb. 8; Sp. p. 1425; Gaz. vol. 151; p. 255.
Strasburger, Frank C. H., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 948,463; Feb. 8; Sp. p. 1429; Gaz. vol. 151; p. 255.
Strasburger, Frank C. H., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 956,867; May 3; Sp. p. 801; Gaz. vol. 154; p. 127.
Strater, Theodore G., West Tisbury, Mass. Water-bottle. No. 957,013; May 3; Sp. p. 1115; Gaz. vol. 154; p. 175.

Strating, Charles E., Chicago, Ill. Wringing-support for mops. No. 971,702; Oct. 4; Sp. p. 399; Gaz. vol. 159; p. 69.
Strattner, Frederick, Salisbury, Md. Boiler-patch. No. 953,562; Mar. 29; Sp. p. 6423; Gaz. vol. 152; p. 1149.
Stratton, Charles D., and W. A. Petrie, Clinton, N. Y. Steaming and pressing machine. No. 953,805; Apr. 5; Sp. p. 250; Gaz. vol. 153; p. 44.
Stratton, Herman J., Kalamazoo, Mich. Post. No. 958,946; May 24; Sp. p. 5511; Gaz. vol. 154; p. 925.
Stratton, James M., assignor to The Deming Company, Salem, Ohio. Pump. No. 951,663; Mar. 8; Sp. p. 2442; Gaz. vol. 152; p. 422.
Stratton, James M., assignor to The Deming Company, Salem, Ohio. Double-acting horizontal power-pump. No. 978,673; Dec. 13; Sp. p. 2723; Gaz. vol. 161; p. 464.
Stratton, Joseph R., assignor of one-third to R. A. Borden, Moncton, New Brunswick, Canada. Antifriction alloy. No. 972,786; Oct. 11; Sp. p. 2759; Gaz. vol. 159; p. 469.
Stratton, Samuel L., Columbus, Ohio. Spirit-level. No. 963,959; July 12; Sp. p. 2070; Gaz. vol. 156; p. 338.
Stratton, Vernon J., Cloverdale, Cal. Fly-screen. No. 958,562; May 17; Sp. p. 4681; Gaz. vol. 154; p. 769.
Stratton, Wallace E., New York, N. Y. Turnstile. No. 949,384; Feb. 15; Sp. p. 3385; Gaz. vol. 151; p. 591.
Stratton, William H., Chicago, Ill. Sheet-delivery mechanism for printing-presses. No. 976,410; Nov. 22; Sp. p. 5160; Gaz. vol. 160; p. 876.
Straub, Albert, New York, N. Y., assignor to H. Jacob & Sons. Vamp and quarter forming machine. No. 965,046; July 19; Sp. p. 4441; Gaz. vol. 156; p. 739.
Straub, Constantine L., Milwaukee, Wis., assignor to Loomis Pettibone Company. Suction gas-producer. No. 967,459; Aug. 16; Sp. p. 3465; Gaz. vol. 157; p. 597.
Straub, Constantine L., Perth Amboy, N. J., assignor to Marine Producer Gas Power Company. Three-way valve. No. 967,460; Aug. 16; Sp. p. 3469; Gaz. vol. 157; p. 598.
Straub, Elmer E. (See Beaver, Isaac K., assignor.)
Straub, Emil A., Detroit, Mich. Tweezers. No. 977,341; Nov. 29; Sp. p. 7182; Gaz. vol. 160; p. 1221.
Straub, Michael, San Francisco, Cal. Pile remedy. No. 979,395; Dec. 20; Sp. p. 4265; Gaz. vol. 161; p. 734.
Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Testing appliance. No. 962,175; June 21; Sp. p. 4070; Gaz. vol. 155; p. 706.
Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Hinged double telescope. No. 962,929; June 28; Sp. p. 5647; Gaz. vol. 155; p. 989.
Straughan, Henry H., Rowland, N. C. Sister-hook. No. 952,958; Mar. 22; Sp. p. 5106; Gaz. vol. 152; p. 917.
Straus, Alexander L., Baltimore, Md. Combined window sash and ventilator. No. 953,355; Mar. 29; Sp. p. 5980; Gaz. vol. 152; p. 1076.
Straus, Annie, Danville, Ill. Hat-fastener. No. 957,810; May 10; Sp. p. 2776; Gaz. vol. 154; p. 476.
Strause, Edmund A., assignor of one-half to F. D. Ammen, Los Angeles, Cal. Glass-holder. No. 973,085; Oct. 18; Sp. p. 3465; Gaz. vol. 159; p. 600.
Strause, Henry P., New York, N. Y. Tip for cigarettes. No. 968,284; Aug. 23; Sp. p. 5230; Gaz. vol. 157; p. 900.
Strauss, Armin, Rochester, N. Y. Snow handling and removing means. No. 974,306; Nov. 1; Sp. p. 511; Gaz. vol. 160; p. 76.
Strauss Brothers & Company. (See Heppe, Ernest H., assignor.)
Strauss, Ernest, and W. B. Erskine, New York, N. Y. Machine for making composite fabrics. No. 945,635; Jan. 4; Sp. p. 1349; Gaz. vol. 150; p. 210.
Strauss, Ernest, and W. B. Erskine, New York, N. Y. Composite fabric. No. 952,849; Mar. 22; Sp. p. 4895; Gaz. vol. 152; p. 881.
Strauss, Georges, assignor to Société Anonyme La Compagnie Generale D'Electro-Chimie de Bozel, Paris, France. Manufacture of metallic silicids. No. 948,190; Feb. 1; Sp. p. 838; Gaz. vol. 151; p. 138.
Strauss, Georges, assignor to Société Anonyme la Compagnie Générale d'Electro-Chimie de Bozel, Paris, France. Manufacture of metallic silicids. No. 964,459; July 12; Sp. p. 3075; Gaz. vol. 156; p. 505.
Strauss, Joseph B., Chicago, Ill. Bridge. No. 974,538; Nov. 1; Sp. p. 1074; Gaz. vol. 160; p. 160.
Strauss Manufacturing Company. (See Seiler, Philipp, assignor.)
Straw, Wilfred. (See Schoenmehl and Straw.)
Streat, George, New York, N. Y. Waterproof fabric. No. 959,178; May 24; Sp. p. 5997; Gaz. vol. 154; p. 1002.
Streator, Henry D., Galesburg, Mich. Mold. No. 968,285; Aug. 23; Sp. p. 5231; Gaz. vol. 157; p. 901.
Streator Metal Stamping Co., The. (See Williams, Edwin R., assignor.)
Street, George L., Jr., Richmond, Va. Toilet-brush. No. 972,483; Oct. 11; Sp. p. 2092; Gaz. vol. 159; p. 364.
Street, Herbert W., Waggoner, Ill. Gate. No. 948,869; Feb. 8; Sp. p. 2298; Gaz. vol. 151; p. 391.
Street, James M., *et al.* (See McMaster, Abraham L., assignor.)
Street, James M., Chicago Heights, assignor of two-thirds to G. H. Fuller, Chicago, Ill. Railway frog and switch. No. 947,766; Jan. 25; Sp. p. 6101; Gaz. vol. 150; p. 1017.
Streeter-Amet Weighing and Recording Company. (See Goetz, George, assignor.)
Streeter, Royal A., assignor to Stotts Signal Company, Marion, Iowa. Electrically-operated block-signal mechanism. No. 972,660; Oct. 11; Sp. p. 2512; Gaz. vol. 159; p. 427.
Strehler, William F., Detroit, Mich. Gumming or pasting machine. No. 964,133; July 12; Sp. p. 2435; Gaz. vol. 156; p. 399.
Streibich, John C., assignor of one-half to C. G. Engholdt, Little Rock, Ark. Grass-cutter. No. 977,569; Dec. 6; Sp. p. 350; Gaz. vol. 161; p. 51.
Streich, Frank, assignor, by mesne assignments, to American Bakers' Machinery Company, St. Louis, Mo. Dough-molding machine. No. 947,500; Jan. 25; Sp. p. 5590; Gaz. vol. 150; p. 928.
Streich, Frank, assignor to American Bakers Machinery Company, St. Louis, Mo. Dough-molding machine. No. 957,390; May 10; Sp. p. 1921; Gaz. vol. 154; p. 334.
Streich, Frank, assignor to American Baker's Machinery Company, St. Louis, Mo. Dough-molding machine. No. 978,233; Dec. 13; Sp. p. 1771; Gaz. vol. 161; p. 311.
Streich, Robert, London, England, assignor to G. and R. Gadebusch, Berlin, Germany. Upright-pianoforte action. No. 945,113; Jan. 4; Sp. p. 220; Gaz. vol. 150; p. 37.
Streit, George B., Detroit, Mich. Folding box. No. 968,286; Aug. 23; Sp. p. 5234; Gaz. vol. 157; p. 901.
Streitz, Jacob, Marine City, Mich. Seed-dropping mechanism. No. 969,918; Sept. 13; Sp. p. 1675; Gaz. vol. 158; p. 288.
Strelitz, David I., Chicago, Ill. Jewel-cluster setting. No. 948,774; Feb. 8; Sp. p. 2118; Gaz. vol. 151; p. 360.
Strepey, Jasper N. (See Strepey, Lindsay S., assignor.)
Strepey, Lindsay S., Victor, assignor of two-sevenths to J. N. Strepey, Buena Vista, Colo. Wheel-bearing. No. 971,417; Sept. 27; Sp. p. 4804; Gaz. vol. 158; p. 840.
Stretch, Joseph. (See Sobel, Gold, and Stretch.)
Stricker, Albert W., Lake Benton, Minn. Splice-bar. No. 952,959; Mar. 22; Sp. p. 5107; Gaz. vol. 152; p. 917.
Stricker, L. L. (See Lanier, Lewis H., assignor.)
Strickland, Edward W., *et al.* (See Seely, John B., assignor.)
Stricklin, Cephus L., *et al.* (See Ashford, Thomas B., assignor.)
Stricklin, Joseph, *et al.* (See Ashford, Thomas B., assignor.)
Stricklin, Walter L., assignor of one-half to M. Plough, Memphis, Tenn. Post-hole digger. No. 961,656; June 14; Sp. p. 2921; Gaz. vol. 155; p. 506.
Strid, Sven J., assignor of one-half to R. G. Coburn, Chicago, Ill. Journal-box. No. 970,133; Sept. 13; Sp. p. 2115; Gaz. vol. 158; p. 360.
Stridell, Axel, O. R. Halbom, and R. M. McNeil, Carrollton, Wash. Lock-hook. No. 964,068; July 12; Sp. p. 2291; Gaz. vol. 156; p. 377.
Strieby & Foote Company. (See Whittemore, William H., assignor.)
Strippel, Walter H. (See Butterfield, John W., assignor.)
Strite, George T., assignor to Gas Traction Co., Minneapolis, Minn. Drive-wheel. No. 953,356; Mar. 29; Sp. p. 5981; Gaz. vol. 152; p. 1076.
Strobl, Samuel, Chicago, Ill. Metallic wheel. No. 965,492; July 26; Sp. p. 5374; Gaz. vol. 156; p. 920.
Strock, Joseph G., Trindle Spring, Pa. Toothpick. No. 958,335; May 17; Sp. p. 4243; Gaz. vol. 154; p. 692.
Strode, Edward P., New York, N. Y. Packing-tool. No. 973,146; Oct. 18; Sp. p. 3607; Gaz. vol. 159; p. 622.
Strodel, Frank A., assignor to C. C. Bradley, Sr., Syracuse, N. Y. Thill-coupling. No. 950,733; Mar. 1; Sp. p. 588; Gaz. vol. 152; p. 93.
Stroh, John C., Drifton, Pa. Ventilating system. No. 976,229; Nov. 22; Sp. p. 4735; Gaz. vol. 160; p. 813.
Stroh, Sigmund, London, England. Metal seal. No. 959,401; May 24; Sp. p. 6429; Gaz. vol. 154; p. 1075.
Stroh, Sigmund, London, England. Means for attaching seals to packing-cases. No. 977,342; Nov. 29; Sp. p. 7183; Gaz. vol. 160; p. 1221.
Stroh, Victor, Poplar Bluff, Mo. Centering device. No. 949,856; Feb. 22; Sp. p. 4360; Gaz. vol. 151; p. 782.
Strohhaecker, George A. (See Eddy, George W., assignor.)
Strohhaecker, George A. (See Hoefer and Strohhaecker.)
Strohhaecker, George A. (See Zillmer and Strohhaecker.)
Strohm, Edith W., administratrix. (See Strohm, Erhard J.)
Strohm, Erhard J., deceased, Livingston, Mont.; E. W. Strohm, Newton township, Calhoun county, Mich., administratrix. Eyeglasses. No. 959,815; May 31; Sp. p. 7324; Gaz. vol. 154; p. 1240.
Strohm, Erhard J., deceased, Livingston, Mont.; E. W. Strohm, Newton township, Calhoun county, Mich., administratrix. Eyeglass-mounting. No. 959,816; May 31; Sp. p. 7326; Gaz. vol. 154; p. 1241.
Strohn, Emil W., Buffalo, N. Y. Heating vessel. No. 952,690; Mar. 22; Sp. p. 4549; Gaz. vol. 152; p. 826.
Strohschein, Otto, New York, N. Y. Life-preserving and swimming apparatus. No. 952,763; Mar. 22; Sp. p. 4708; Gaz. vol. 152; p. 850.
Strom, Axel A., Austin, assignor to Pettibone, Mulliken & Company, Chicago, Ill. Switch-lever lock. No. 953,646; Mar. 29; Sp. p. 6592; Gaz. vol. 152; p. 1177.

Alphabetical list of patentees—Continued.

Strom, Eugene N., Chicago, Ill., assignor to Pettibone, Mulliken & Company. Switch-stand. No. 956,834; May 3; Sp. p. 727; Gaz. vol. 154; p. 115.
Strom, Lawrence, Los Angeles, Cal. Separating liquids and apparatus therefor. No. 968,206; Aug. 23; Sp. p. 5057; Gaz. vol. 157; p. 872.
Stromberg-Carlson Telephone Manufacturing Company. (See Dyson, Alfred H., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Hague, Charles E., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Williams, Lynn A., assignor.)
Stromberg-Carlson Telephone Mfg. Company. (See Conner, Merritt S., assignor.)
Stromer, Simon, New York, N. Y. Exchangeable heel for shoes. No. 979,593; Dec. 27; Sp. p. 4703; Gaz. vol. 161; p. 826.
Stromeyer, Julius, Philadelphia, Pa. Brake-shoe. No. 966,616; Aug. 9; Sp. p. 1673; Gaz. vol. 157; p. 286.
Strommerson, Soffus, assignor of one-half to E. Beaumont, Sioux City, Iowa. Valve-regulator in Corliss engines. No. 967,261; Aug. 16; Sp. p. 3065; Gaz. vol. 157; p. 531.
Stronach, Reis H., Roxbury, Mass. Safety device for horses. No. 972,730; Oct. 11; Sp. p. 2654; Gaz. vol. 159; p. 451.
Strong, Carlisle & Hammond Company, The. (See Weintz, Jacob, assignor.)
Strong, Charles E., Amityville, N. Y. Valve. No. 957,811; May 10; Sp. p. 2777; Gaz. vol. 154; p. 476.
Strong, Edward A., Sr., Indianapolis, Ind. Water-faucet. No. 965,343; July 26; Sp. p. 5070; Gaz. vol. 156; p. 871.
Strong, James B., assignor to Ramapo Iron Works, Hillburn, N. Y. Switch-rail. No. 951,205; Mar. 8; Sp. p. 1495; Gaz. vol. 152; p. 270.
Strong, Leslie P., assignor to The Clark Manufacturing Company, Cleveland, Ohio. Vacuum-trap. No. 957,269; May 10; Sp. p. 1678; Gaz. vol. 154; p. 294.
Strong, William E. S., Chicago, Ill., and F. V. Bartlett, assignors to The Winkley Company, Detroit, Mich. Oil-cup. No. 959,643; May 31; Sp. p. 6948; Gaz. vol. 154; p. 1184.
Strother, James A. (See Chapman, Thomas A., assignor.)
Strother, Robert H., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 962,600; June 28; Sp. p. 5000; Gaz. vol. 155; p. 875.
Strother, Robert H., Montclair, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 967,995; Aug. 23; Sp. p. 4570; Gaz. vol. 157; p. 802.
Strother, Sam B., administrator. (See Wood, James M.)
Strotzka, Andreas J., and J. Berger, Hainfeld, Austria-Hungary. Explosive mine. No. 952,478; Mar. 22; Sp. p. 4078; Gaz. vol. 152; p. 753.
Stroud, Arthur E., Derby, England. Loom for weaving tapes, ribbons, and similar fabrics. No. 979,594; Dec. 27; Sp. p. 4705; Gaz. vol. 161; p. 826.
Stroud, Harold D., Chicago, Ill., assignor to The Stroud International Measured Service Company, St. Louis, Mo. Line signal system. No. 948,979; Feb. 8; Sp. p. 2519; Gaz. vol. 151; p. 428.
Stroud, Harold D., and C. W. Mahon, Chicago, Ill. System and apparatus for measuring telephone service. No. 965,047; July 19; Sp. p. 4445; Gaz. vol. 156; p. 740.
Stroud International Measured Service Company, The. (See Stroud, Harold D., assignor.)
Stroud, Thomas F. (See Hay, Walter, assignor.)
Stroud, Thomas F., Omaha, Nebr. Grading and ditching machine. No. 975,176; Nov. 8; Sp. p. 2494; Gaz. vol. 160; p. 403.
Stroup, Isaac F. (See Shaw and Stroup.)
Stroup, Isaac F., Novinger, Mo. Churn. No. 952,649; Mar. 22; Sp. p. 4460; Gaz. vol. 152; p. 812.
Strub, Albert, Beaver Falls, assignor of one-fourth to P. M. Strub and one-third to H. C. Fry, Rochester, Pa. Glass-molding machine. No. 947,204; Jan. 18; Sp. p. 4837; Gaz. vol. 150; p. 798.
Strub, Pius M., *et al.* (See Strub, Albert, assignor.)
Strube, Kristian K., Trenton, N. J. Wheel. No. 970,569; Sept. 20; Sp. p. 3040; Gaz. vol. 158; p. 529.
Struck, Wilhelm, Berlin, Germany. Reversing-gearing. No. 955,717; Apr. 19; Sp. p. 4391; Gaz. vol. 153; p. 757.
Struve, Johannes, Pequot, Minn. Sled-brake. No. 975,904; Nov. 15; Sp. p. 4018; Gaz. vol. 160; p. 678.
Stryker, James M., Chicago, Ill. Bag-tie. No. 960,432; June 7; Sp. p. 391; Gaz. vol. 155; p. 65.
Stryker, Robert D., assignor of forty-nine one-hundredths to N. E. Woessner, Huron, Ohio. Starting device for automobiles and like machines. No. 973,232; Oct. 18; Sp. p. 3815; Gaz. vol. 159; p. 652.
Stuart, Albert H., Boston, Mass. Tempo-controller for automatic pianos. No. 962,537; June 28; Sp. p. 4857; Gaz. vol. 155; p. 854.
Stuart, Charles M. (See Coddington, Erastus L., assignor.)
Stuart, Claude H., and C. Scott-Snell, London, England. Apparatus for compressing elastic fluids. No. 969,123; Aug. 30; Sp. p. 6982; Gaz. vol. 157; p. 1215.
Stuart, George S., Hollidaysburg, Pa. Chimney-cleaner. No. 968,207; Aug. 23; Sp. p. 5061; Gaz. vol. 157; p. 872.
Stuart, George W., Newtown, Conn. Sieve. No. 978,674; Dec. 13; Sp. p. 2727; Gaz. vol. 161; p. 464.
Stuart, Harve R. (See Thompson and Stuart.)
Stuart, Harve R., Newark, N. J. Telephone-receiver. No. 976,230; Nov. 22; Sp. p. 4737; Gaz. vol. 160; p. 813.
Stuart, Harve R., Wheeling, W. Va. Telephone-receiver. No. 977,981; Dec. 6; Sp. p. 1211; Gaz. vol. 161; p. 194.
Stuart, Harve R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical-circuit breaker. No. 973,889; Oct. 25; Sp. p. 5196; Gaz. vol. 159; p. 902.
Stuart, Harve R., and E. O. Kizer, Wheeling, W. Va. Telephone-receiver. No. 955,921; Apr. 26; Sp. p. 4838; Gaz. vol. 153; p. 856.
Stuart, Henry W., Fernbank, assignor, by mesne assignments, to C. E. Roth, trustee, Cincinnati, Ohio. Paper bag. No. 955,998; Apr. 26; Sp. p. 5000; Gaz. vol. 153; p. 884.
Stuart, James A., Highland, Cal. Gravity-hinge. No. 945,820; Jan. 11; Sp. p. 1807; Gaz. vol. 150; p. 303.
Stuart, James A., Highland, Cal. Door-check. No. 948,598; Feb. 8; Sp. p. 1728; Gaz. vol. 151; p. 300.
Stuart, Joseph, assignor to Lobdell Car Wheel Company, Wilmington, Del. Attachment for calendar-machines. No. 957,812; May 10; Sp. p. 2778; Gaz. vol. 154; p. 476.
Stuart, Josie A. W., Minneapolis, Minn., assignor to D. Erb, Grand Rapids, Mich. Toilet article. (Reissue.) No. 13,149; Sept. 6; Sp. p. 1326; Gaz. vol. 158; p. 211.
Stuart, Orion K., assignor of one-half to W. H. Thomas, Indianapolis, Ind. Acetylene-gas generator. No. 950,310; Feb. 22; Sp. p. 5362; Gaz. vol. 151; p. 941.
Stuart, Silas B., and T. B. Burns, Newark, N. Y. Metallic railway-tie. No. 967,583; Aug. 16; Sp. p. 3731; Gaz. vol. 157; p. 641.
Stuart, William C., Weatherford, Tex. Fire-escape. No. 979,900; Dec. 27; Sp. p. 5379; Gaz. vol. 161; p. 930.
Stuart, William G., assignor to Chase-Shawmut Company, Newburyport, Mass. Device for preparing rails for the attachment of rail-bonds. No. 974,931; Nov. 8; Sp. p. 1935; Gaz. vol. 160; p. 319.
Stub, Hans, *et al.* (See Hansen, Amund, assignor.)
Stubbings, George. (See Snow and Stubbings.)
Stubbings, Wilson H., Jr., Glenellyn, assignor to W. H. Stubbings, Chicago, Ill. Amusement device. No. 953,721; Apr. 5; Sp. p. 77; Gaz. vol. 153; p. 17.
Stubblefield, Mabel H., Chicago, Ill. Sewing-machine. No. 967,262; Aug. 16; Sp. p. 3067; Gaz. vol. 157; p. 531.
Stubblefield, William H., Cleveland, Tex. Cutting-machine. No. 946,569; Jan. 18; Sp. p. 3491; Gaz. vol. 150; p. 587.
Stubbs, Clarence E., Baltimore, Md. Pump. No. 964,332; July 12; Sp. p. 2826; Gaz. vol. 156; p. 466.
Stubbs, Clarence E., Baltimore, Md. Fountain-brush. No. 967,686; Aug. 16; Sp. p. 3925; Gaz. vol. 157; p. 674.
Stubbs, Clarence E., assignor of one-half to E. C. Osborne, Baltimore, Md. Dispensing-container. No. 967,852; Aug. 16; Sp. p. 4266; Gaz. vol. 157; p. 730.
Stubbs, John W., assignor to The General Electrolytic Parent Company, Limited, Middlewich, England. Electrode. No. 947,358; Jan. 25; Sp. p. 5235; Gaz. vol. 150; p. 882.
Stubbs, Theodore B., *et al.* (See Owin, Elijah J., assignor.)
Stubbs, Thomas A. (See Linn and Stubbs.)
Stuber & Kuck. (See Nelson, Lewen R., assignor.)
Stubley, Charles H., assignor of one-half to F. White, Lincoln, England. Dust collecting and separating apparatus. No. 975,300; Nov. 8; Sp. p. 2767; Gaz. vol. 160; p. 446.
Stuck, Everett, Dayton, Ohio. Feeding mechanism. No. 956,444; Apr. 26; Sp. p. 5977; Gaz. vol. 153; p. 1038.
Stuckel, Martin, Mace, Idaho. Dust-catcher for drills. No. 972,035; Oct. 4; Sp. p. 1154; Gaz. vol. 159; p. 193.
Stuckenburg, Henry C., assignor to Bridgeford and Company, Louisville, Ky. Grate. No. 979,719; Dec. 27; Sp. p. 4960; Gaz. vol. 161; p. 869.
Stucker, William B., Atalissa, Iowa. Gate-operating device. No. 949,919; Feb. 22; Sp. p. 4513; Gaz. vol. 151; p. 805.
Studdert, Hugh S., Seattle, Wash. Piston-packing. No. 976,007; Nov. 15; Sp. p. 4212; Gaz. vol. 160; p. 713.
Studds, Colin A., Garden City, assignor to American Railway Supply Company, New York, N. Y. Compartment-case. No. 968,287; Aug. 23; Sp. p. 5235; Gaz. vol. 157; p. 901.
Studebaker Brothers Manufacturing Company. (See Dallaire, Alford L., assignor.)
Studer, Alfred, St. Louis, Mo. Adjustable reamer. No. 979,809; Dec. 27; Sp. p. 5188; Gaz. vol. 161; p. 900.
Studnicka, Albert J., and C. W. Campbell, Minneapolis, Minn. Combined magneto and battery switch for electric igniters. No. 957,270; May 10; Sp. p. 1681; Gaz. vol. 154; p. 294.
Stuebner, Gustavus L., Flushing, N. Y. Bottom-dumping bucket. No. 954,480; Apr. 12; Sp. p. 1671; Gaz. vol. 153; p. 302.
Stuebner, Gustavus L., Flushing, N. Y. Bottom-dumping bucket. No. 962,930; June 28; Sp. p. 5649; Gaz. vol. 155; p. 989.
Stuerman, Peter A., Rock Rapids, Iowa. Hinged harrow draw-bar. No. 973,316; Oct. 18; Sp. p. 3979; Gaz. vol. 159; p. 680.

Alphabetical list of patentees—Continued.

Stuhldreier, Wilhelm, Krefeld, Germany. Friction-coupling operated by a centrifugal device. No. 979,595; Dec. 27; Sp. p. 4708; Gaz. vol. 161; p. 827.

Stuhler, Maximillian. (See Weinbach and Stuhler.)

Stukenborg, Louis C., Birmingham, Ala. Cotton-picker. No. 978,341; Dec. 13; Sp. p. 2003; Gaz. vol. 161; p. 349.

Stull, Emmett W., Norwood, Ohio, assignor to Allis-Chalmers Company. Motor-control system. No. 949,097; Feb. 15; Sp. p. 2771; Gaz. vol. 151; p. 492.

Stulp, Fred J., Muskegon, Mich. Hose and pipe mender. No. 969,919; Sept. 13; Sp. p. 1677; Gaz. vol. 158; p. 289.

Stumpf, Johann, Berlin, Germany. Steam-engine. No. 952,764; Mar. 22; Sp. p. 4710; Gaz. vol. 152; p. 851.

Stuparich, Paul J., San Francisco, Cal. Automatic time-switch. No. 951,750; Mar. 8; Sp. p. 2606; Gaz. vol. 152; p. 451.

Sturdevant, Charles R., Worcester, Mass., assignor to American Steel & Wire Company, Chicago, Ill. Apparatus for brazing or welding rail-bonds. No. 950,033; Feb. 22; Sp. p. 4812; Gaz. vol. 151; p. 846.

Sturdevant, Charles R., assignor to The American Steel and Wire Company of New Jersey, Worcester, Mass. Rail-bond. No. 957,911; May 17; Sp. p. 3018; Gaz. vol. 154; p. 541.

Sturdevant, Charles R., Worcester, Mass., assignor to The American Steel & Wire Company, Pittsburg, Pa. Rail-bond. No. 976,947; Nov. 29; Sp. p. 6330; Gaz. vol. 160; p. 1085.

Sturdevant, Linley E., Binghamton, N. Y., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Balanced wheel-hub. No. 966,617; Aug. 9; Sp. p. 1675; Gaz. vol. 157; p. 286.

Sturges, Varney K., assignor to J. H. Schulte and H. Kaiser, Detroit, Mich. Belting. No. 965,250; July 26; Sp. p. 4851; Gaz. vol. 156; p. 838.

Sturgess Governor Engineering Company. (See Sturgess, John, assignor.)

Sturgess, John, assignor to Sturgess Governor Engineering Company, Troy, N. Y. Variable-speed gear. No. 949,782; Feb. 22; Sp. p. 4187; Gaz. vol. 151; p. 756.

Sturgis, Lee, Chicago, Ill. Hermetically-sealing stopper for cans. No. 952,717; Mar. 22; Sp. p. 4612; Gaz. vol. 152; p. 836.

Sturgis Steel Go-Cart Company. (See Loshbough, Anthony W., assignor.)

Sturm, Charles A., Portland, Oreg. Steam-boiler. No. 945,733; Jan. 4; Sp. p. 1580; Gaz. vol. 150; p. 243.

Sturm, Lester, Vandalia, Ill. Hog-breeding crate. No. 952,479; Mar. 22; Sp. p. 4079; Gaz. vol. 152; p. 753.

Sturma, William, Philadelphia, Pa. Beater, whipper, mixer, and masher for eggs, cream, vegetables, &c. No. 946,169; Jan. 11; Sp. p. 2549; Gaz. vol. 150; p. 425.

Sturtevant, Isabelle A., Center Harbor, N. H. Extension-seat for carriages. No. 950,195; Feb. 22; Sp. p. 5133; Gaz. vol. 151; p. 901.

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant Mill Company. (See Sturtevant, Thomas L. and T. J., assignors.)

Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)

Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Crushing-mill. No. 977,235; Nov. 29; Sp. p. 6970; Gaz. vol. 160; p. 1185.

Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Carbureter. No. 961,423; June 14; Sp. p. 2420; Gaz. vol. 155; p. 427.

Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Vibrating screen or separator. No. 961,467; June 14; Sp. p. 2526; Gaz. vol. 155; p. 443.

Stüting, Heinrich, Witten, Germany. Tube-rolling mill. No. 961,818; June 21; Sp. p. 3275; Gaz. vol. 155; p. 584.

Stutz, Edward, Paterson, N. J. Shuttle-race for looms. No. 960,433; June 7; Sp. p. 392; Gaz. vol. 155; p. 65.

Subber, Morris, Woodbine, N. J. Adjustable bearing. No. 967,853; Aug. 16; Sp. p. 4268; Gaz. vol. 157; p. 730.

Sublett, Samuel H., Sr., Hatton, Ark. Abdominal supporter. No. 967,081; Aug. 9; Sp. p. 2692; Gaz. vol. 157; p. 442.

Submarine Signal Company. (See Dewing, Fred M., assignor.)

Submarine Signal Company. (See Durkee and Millet, assignors.)

Submarine Signal Company. (See Gale, Horace B., assignor.)

Submarine Signal Company. (See Wood and Merden, assignors.)

Success Manufacturing Company. (See Bolger, Thomas P., assignor.)

Sucher, Roy V., Dayton, Ohio. Machine for icing cakes. No. 954,147; Apr. 5; Sp. p. 945; Gaz. vol. 153; p. 162.

Suck, Josef, Karolinenthal, near Prague, Austria-Hungary. Casing for water-tube boilers. No. 945,203; Jan. 4; Sp. p. 409; Gaz. vol. 150; p. 68.

Suckley, John A., North Woodbury, Conn. Gouge. No. 976,106; Nov. 15; Sp. p. 4416; Gaz. vol. 160; p. 748.

Suddick, Louise F., De Soto, Mo. Page-marker and music-leaf turner. No. 957,447; May 10; Sp. p. 2041; Gaz. vol. 154; p. 354.

Suddoth, Frank E., and W. T. S. Weaver, Omaha, Nebr. Clutch mechanism. No. 961,043; June 7; Sp. p. 1617; Gaz. vol. 155; p. 270.

Suess, Charles F. W., assignor to J. R. Nigg, Chicago, Ill. Glass-forming machinery. No. 954,901; Apr. 12; Sp. p. 2652; Gaz. vol. 153; p. 449.

Sugg, Wiley P., Oakland, Cal. Dredging-sleeve. No. 947,046; Jan. 18; Sp. p. 4535; Gaz. vol. 150; p. 748.

Suhm, C. J., *et al.* (See Consentino, Thomas, assignor.)

Suhr, Peter, Schleswig, Iowa. Horse-detacher. No. 978,507; Dec. 13; Sp. p. 2354; Gaz. vol. 161; p. 406.

Suit, James T., Paola, Kans. Burial-vault. No. 947,402; Jan. 25; Sp. p. 5344; Gaz. vol. 150; p. 895.

Suiter, Edwin P. (See Simon and Thibault, assignors.)

Suleder, Jacob, Brooklyn, N. Y., assignor to The Keuffel & Esser Company, Hoboken, N. J. Calculating-machine. No. 975,654; Nov. 15; Sp. p. 3512; Gaz. vol. 160; p. 593.

Sullivan, Charles E. (See Sullivan, Josiah and C. E.)

Sullivan, Daniel A. (See Jordan and Sullivan.)

Sullivan, Dennis W., New London, Conn. Conveyer. No. 952,381; Mar. 15; Sp. p. 3860; Gaz. vol. 152; p. 691.

Sullivan, Ernest E., Chicago, Ill. Vending-machine. No. 979,596; Dec. 27; Sp. p. 4710; Gaz. vol. 161; p. 827.

Sullivan, Eugene J., Roaring Spring, Pa. Bookbinding. No. 956,608; May 3; Sp. p. 221; Gaz. vol. 154; p. 38.

Sullivan, Frank T., Brooklyn, N. Y. Knockdown structure. No. 947,655; Jan. 25; Sp. p. 5910; Gaz. vol. 150; p. 981.

Sullivan, James, New York, N. Y. Awning-fixture. No. 946,285; Jan. 11; Sp. p. 2802; Gaz. vol. 150; p. 467.

Sullivan, John, and W. Rosenstock, U. S. Navy. Measuring apparatus. No. 970,765; Sept. 20; Sp. p. 3491; Gaz. vol. 158; p. 597.

Sullivan, John F., New York, N. Y. Theatrical apparatus. No. 974,203; Nov. 1; Sp. p. 223; Gaz. vol. 160; p. 37.

Sullivan, John H., Grand Rapids, Mich. Pliers. No. 955,370; Apr. 19; Sp. p. 3618; Gaz. vol. 153; p. 638.

Sullivan, John H., Grand Rapids, Mich. Mold-tie. No. 972,036; Oct. 4; Sp. p. 1156; Gaz. vol. 159; p. 194.

Sullivan, John P., *et al.* (See Strange, William H., assignor.)

Sullivan, Josiah and C. E., McCook, Nebr. Train-pipe coupling. No. 980,135; Dec. 27; Sp. p. 5904; Gaz. vol. 161; p. 1008.

Sullivan Machinery Company. (See Gilman, George H., assignor.)

Sullivan Machinery Company. (See Mercer, Henry H., assignor.)

Sullivan Machinery Company. (See Nelson, Halvorsen, and Halleck, assignors.)

Sullivan Machinery Company. (See Osterberg, Robert, assignor.)

Sullivan, Patrick J., East Orange, N. J. Apparatus for filling fountain-pens. No. 955,830; Apr. 19; Sp. p. 4607; Gaz. vol. 153; p. 796.

Sullivan, Patrick P., Rochester, N. Y. Tobacco-pipe. No. 979,352; Dec. 20; Sp. p. 4177; Gaz. vol. 161; p. 721.

Sullivan, Thomas J., New York, N. Y. Electrical announcing attachment for cash-registers. No. 979,353; Dec. 20; Sp. p. 4178; Gaz. vol. 161; p. 721.

Sullivan, William, Leicester, Mass. Carding-machine. No. 976,756; Nov. 22; Sp. p. 5884; Gaz. vol. 160; p. 993.

Sullivan, William A., New York, N. Y. Game apparatus. No. 959,402; May 24; Sp. p. 6430; Gaz. vol. 154; p. 1076.

Sullivan, William F., Mount Vernon, Ohio, assignor of one-half to E. L. Weber, Baltimore, Md. Automatic balancing mechanism for flying-machines. No. 976,312; Nov. 22; Sp. p. 4937; Gaz. vol. 160; p. 841.

Sullivan, William J., New York, N. Y. Faucet. No. 951,855; Mar. 15; Sp. p. 2840; Gaz. vol. 152; p. 517.

Sullivan, William T., Cincinnati, Ohio. Compiling-machine. No. 959,644; May 31; Sp. p. 6949; Gaz. vol. 154; p. 1184.

Sulman, Henry L. (See Durant, Sulman, and Hommel.)

Sulman, Henry L. (See Hommel and Sulman.)

Sulman, Henry L., assignor to Minerals Separation Limited, London, England. Concentration of ores. No. 955,012; Apr. 12; Sp. p. 2872; Gaz. vol. 153; p. 486.

Sulman, Henry L., H. H. Greenway, and A. H. Higgins, London, England. Ore concentration. No. 962,678; June 28; Sp. p. 5150; Gaz. vol. 155; p. 901.

Sulphur Dioxide Co., The. (See Grimm, Paul H., assignor.)

Sultzbaugh, Scott F., Cleveland, Ohio. Dinner-pail. No. 966,264; Aug. 2; Sp. p. 894; Gaz. vol. 157; p. 143.

Sulzberger, Nathan, New York, N. Y. Local anesthetic. No. 949,134; Feb. 15; Sp. p. 2858; Gaz. vol. 151; p. 505.

Sulzberger, Nathan, New York, N. Y. Preparing scouring and other household soaps containing fullers' earth. No. 951,155; Mar. 8; Sp. p. 1402; Gaz. vol. 152; p. 254.

Sulzberger, Nathan, New York, N. Y. Utilizing spent fullers' earth. No. 968,092; Aug. 23; Sp. p. 4801; Gaz. vol. 157; p. 834.

Sulzberger, Nathan, New York, N. Y. Oleic-acid derivative of bodies of the terpene group. No. 969,420; Sept. 6; Sp. p. 578; Gaz. vol. 158; p. 92.

Alphabetical list of patentees—Continued.

Sulzberger, Nathan, New York, N. Y. Oleic-acid derivatives containing a phenyl group. No. 970,662; Sept. 20; Sp. p. 3257; Gaz. vol. 158; p. 562.
Sulzen, Herman J., Chicago, Ill. Combination speedograph, speedometer, and cyclometer. No. 946,170; Jan. 11; Sp. p. 2552; Gaz. vol. 150; p. 425.
Sumerlin, Henry C., Creston, Wash. Combination fork and shovel. No. 969,307; Sept. 6; Sp. p. 323; Gaz. vol. 158; p. 53.
Summa, Victor M., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-car. No. 959,817; May 31; Sp. p. 7327; Gaz. vol. 154; p. 1241.
Summerfield, Bernhard, Chicago, Ill. Lock. No. 952,480; Mar. 22; Sp. p. 4082; Gaz. vol. 152; p. 754.
Summerfield, C. R. (See Hitchcock, Martin L., assignor.)
Summerfield, Oliver, Hot Springs, Ark. Meat-tenderer. No. 961,657; June 14; Sp. p. 2924; Gaz. vol. 155; p. 506.
Summers, Achilles M., Bogue Chitto, Miss. Tool-handle. No. 953,108; Mar. 29; Sp. p. 5449; Gaz. vol. 152; p. 995.
Summers, Bertrand S., Port Huron, Mich. Food product and making the same. No. 949,029; Feb. 15; Sp. p. 2646; Gaz. vol. 151; p. 471.
Summers, Bertrand S., Port Huron, Mich. Linoleum product and making same. No. 965,344; July 26; Sp. p. 5072; Gaz. vol. 156; p. 871.
Summers, Edgar W., Pittsburg, Pa. Railway car and truck. No. 972,286; Oct. 11; Sp. p. 1690; Gaz. vol. 159; p. 297.
Summers, Edgar W., Pittsburg, Pa. Dumping-door for railway-cars. No. 975,804; Nov. 15; Sp. p. 3820; Gaz. vol. 160; p. 643.
Summers, George T., Russellville, Ky. Engraving-machine. No. 957,912; May 17; Sp. p. 3019; Gaz. vol. 154; p. 541.
Summers, George W., Anniston, Ala. Anvil. No. 953,305; Mar. 29; Sp. p. 5858; Gaz. vol. 152; p. 1059.
Summers, Jacob L. (See Elliott and Summers.)
Summers, James G., Charleston, W. Va. Stamp-moistener. No. 972,661; Oct. 11; Sp. p. 2514; Gaz. vol. 159; p. 427.
Summers, Leland L., Chicago, Ill. Extracting or eliminating sulfur, phosphorus, and other impurities from coal, ore, &c. No. 967,996; Aug. 23; Sp. p. 4575; Gaz. vol. 157; p. 802.
Summers, Leland L., assignor to Continuous Process Coke Company, Chicago, Ill. Coking process. No. 951,786; Mar. 8; Sp. p. 2689; Gaz. vol. 152; p. 464.
Summers, Leland L., Chicago, Ill., assignor to Continuous Process Coke Company. Coking coals. No. 968,499; Aug. 23; Sp. p. 5661; Gaz. vol. 157; p. 975.
Summers, Silas J., Wheeling, W. Va. Trombone. No. 959,034; May 24; Sp. p. 5683; Gaz. vol. 154; p. 955.
Summers, Silas J., Wheeling, W. Va., assignor to H. N. White, Cleveland, Ohio. Slide-bearing for trombones. No. 959,033; May 24; Sp. p. 5681; Gaz. vol. 154; p. 954.
Summers, U. Grant. (See Walton, Orrin E., assignor.)
Summit Thread Company. (See Cone, Ezra G., assignor.)
Summit Thread Company. (See Rich, Evelyn J., assignor.)
Sumner, Alonzo L., Guthrie Center, Iowa. Vehicle-pole. No. 951,429; Mar. 8; Sp. p. 1969; Gaz. vol. 152; p. 343.
Sumter Telephone Mfg. Co. (See Mason, Charles T., assignor.)
Sunasack, R. M. (See Eisner, Abraham, assignor.)
Sundberg, Johan G. E. (See Anderson, Gustaf E., assignor.)
Sundberg, Per T., assignor to Express Separator Emil G. Lind & Co., Stockholm, Sweden. Device for cleaning centrifugals. No. 966,265; Aug. 2; Sp. p. 895; Gaz. vol. 157; p. 143.
Sundberg, Theodore R., Salt Lake City, assignor of one-half to L. S. Cates, Bingham Canyon, Utah. Valve. No. 947,463; Jan. 25; Sp. p. 5477; Gaz. vol. 150; p. 915.
Sundborg, Andrew M., Dorchester, Mass. Tempering steel. No. 974,099; Oct. 25; Sp. p. 5616; Gaz. vol. 159; p. 973.
Sundell, Godfrey E., assignor of one-half to L. H. Green, Warren, Pa. Steering mechanism. No. 953,357; Mar. 29; Sp. p. 5983; Gaz. vol. 152; p. 1077.
Sunderland, Jesse W., Oak Park, Ill., assignor to The T. J. Thorp Manufacturing Company, Corvallis, Oreg. Motor-vehicle. No. 965,605; July 26; Sp. p. 5646; Gaz. vol. 156; p. 961.
Sunderland, Sam, Keighley, England. Gear-cutting machine. No. 948,830; Feb. 8; Sp. p. 2231; Gaz. vol. 151; p. 378.
Sunderman, Henry, Madison, Nebr. Road-grader. No. 956,744; May 3; Sp. p. 519; Gaz. vol. 154; p. 84.
Sundh, August. (See Baldwin and Sundh.)
Sundh, August, Yonkers, N. Y. Steering apparatus. No. 963,090; July 5; Sp. p. 130; Gaz. vol. 156; p. 23.
Sundh, August, Yonkers, N. Y. Steering-gear apparatus. No. 963,091; July 5; Sp. p. 142; Gaz. vol. 156; p. 23.
Sundh, August, Yonkers, N. Y. Fluid-controlled power-transmitting mechanism. No. 963,092; July 5; Sp. p. 150; Gaz. vol. 156; p. 23.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Ash-lift. No. 950,250; Feb. 22; Sp. p. 5250; Gaz. vol. 151; p. 921.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Below-surface hoist. No. 950,251; Feb. 22; Sp. p. 5253; Gaz. vol. 151; p. 921.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Means for effecting the control of an alternating-current electric motor. No. 950,467; Feb. 22; Sp. p. 5653; Gaz. vol. 151; p. 991.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Inductive motor-controlling apparatus. No. 952,650; Mar. 22; Sp. p. 4461; Gaz. vol. 152; p. 813.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Sidewalk ash-hoisting apparatus. No. 955,922; Apr. 26; Sp. p. 4839; Gaz. vol. 153; p. 856.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Mechanically-controlled automatic elevator. No. 959,645; May 31; Sp. p. 6953; Gaz. vol. 154; p. 1185.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electromagnetic brake apparatus. No. 960,055; May 31; Sp. p. 7894; Gaz. vol. 154; p. 1325.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Chain-gear steering apparatus. No. 962,268; June 21; Sp. p. 4257; Gaz. vol. 155; p. 736.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Magnetic traction-wheel drive. No. 974,447; Nov. 1; Sp. p. 852; Gaz. vol. 160; p. 126.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electromechanical compound brake. No. 979,720; Dec. 27; Sp. p. 4962; Gaz. vol. 161; p. 869.
Sundh Electric Company. (See Smith, Frank W., assignor.)
Sundh Electric Company. (See Smith and Larsen, assignors.)
Sundquist, Wickton, Bingham, Utah. Ink-bottle. No. 963,660; July 5; Sp. p. 1391; Gaz. vol. 156; p. 217.
Sundt, Alfred P., Stoughton, Wis. Automatic spring-packing. No. 963,406; July 5; Sp. p. 894; Gaz. vol. 156; p. 132.
Sunngård, Harald, Christiania, Norway. Rifle. No. 952,765; Mar. 22; Sp. p. 4711; Gaz. vol. 152; p. 851.
Sunngård, Harald, Christiania, Norway. Automatic fire-arm. No. 972,087; Oct. 4; Sp. p. 1246; Gaz. vol. 159; p. 211.
Sunngård, Harald, Christiania, Norway. Magazine for guns. No. 979,721; Dec. 27; Sp. p. 4964; Gaz. vol. 161; p. 870.
Sunniville, Charles H. (See Conroy, Shelton R., assignor.)
Sunnyside Coal Company. (See Trexel, Forest, assignor.)
Sunshine, Monroe, New York, N. Y. Sad-iron. No. 963,093; July 5; Sp. p. 155; Gaz. vol. 156; p. 23.
Superior Hay Stacker Mfg. Company. (See Vroom, Oler P., assignor.)
Superior Manufacturing Company. (See Franks, William, assignor.)
Superior Motor Specialty Company, The. (See Minogue, Martin T., assignor.)
Supf, Frederick, assignor to The Arabol Manufacturing Company, New York, N. Y. Liquefying organic colloids. No. 974,448; Nov. 1; Sp. p. 856; Gaz. vol. 160; p. 126.
Suppes, Max M., Elyria, Ohio. Safety device for metal-mixers. No. 978,675; Dec. 13; Sp. p. 2728; Gaz. vol. 161; p. 465.
Supplee, Samuel G., New York, N. Y. Denture. No. 957,913; May 17; Sp. p. 3020; Gaz. vol. 154; p. 542.
Supplementary Spiral Spring Company. (See Young, William, assignor.)
Sura, Thomas M., Racine, Wis. Umbrella. No. 970,663; Sept. 20; Sp. p. 3259; Gaz. vol. 158; p. 562.
Surbrug, John W., Montclair, N. J. Mouthpiece for cigarettes and the like. No. 973,890; Oct. 25; Sp. p. 5199; Gaz. vol. 159; p. 902.
Suren, Nathan H., Needham, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y. Valve. No. 952,768; Mar. 22; Sp. p. 4723; Gaz. vol. 152; p. 852.
Surfacing Machine Company. (See Wattles, Cyra B., assignor.)
Surridge, John H., New York, N. Y. Heat-regulator. No. 973,317; Oct. 18; Sp. p. 3981; Gaz. vol. 159; p. 681.
Susemihl, Richard L. and T., New York, N. Y. Umbrella. No. 954,357; Apr. 5; Sp. p. 1402; Gaz. vol. 153; p. 233.
Susemihl, Theodore. (See Susemihl, Richard L. and T.)
Susol, Paul, Allegheny, Pa. Ice-cutting machine. No. 950,969; Mar. 1; Sp. p. 1063; Gaz. vol. 152; p. 170.
Suspension Ball Bearing Manufacturing Company. (See Neighbour, William W., assignor.)
Suspension Steel Concrete Company. (See Graham, George M., assignor.)
Süsskind, Ludwig von, St. Georgen, near St. Gallen, Switzerland. Drying goods. No. 965,251; July 26; Sp. p. 4852; Gaz. vol. 156; p. 838.
Süssmann, Heinrich, assignor to Deutsche Gasglühlicht Aktiengesellschaft Auergesellschaft, Berlin, Germany. Manufacturing incandescent mantles. No. 950,734; Mar. 1; Sp. p. 591; Gaz. vol. 152; p. 93.

Alphabetical list of patentees—Continued.

Suter, Jacob, Jersey City, N. J. Door-check. No. 975,805; Nov. 15; Sp. p. 3823; Gaz. vol. 160; p. 644.
Suter, Otto G. (See Hitchcock, Jennie, assignor.)
Suthergreen, Frederic S., Manchester, Mass. Tire-holder and trunk. No. 961,553; June 14; Sp. p. 2717; Gaz. vol. 155; p. 471.
Sutherland, Alfred W., Lynn, Mass. Window provision-holder. No. 966,266; Aug. 2; Sp. p. 896; Gaz. vol. 157; p. 143.
Sutherland, Andrew E., Madrid, Iowa. Adjustable wagon-rack. No. 976,614; Nov. 22; Sp. p. 5593; Gaz. vol. 160; p. 946.
Sutherland, Andrew E., Madrid, Iowa, Adjustable wagon-box. No. 979,722; Dec. 27; Sp. p. 4965; Gaz. vol. 161; p. 870.
Sutherland, Daniel M. and D. M., Jr., Sunbury Common, England. Apparatus for the manufacture of sheets of pulp. No. 971,936; Oct. 4; Sp. p. 929; Gaz. vol. 159; p. 158.
Sutherland, Emil, Hollywood, Cal. Post-hole digger. No. 947,952; Feb. 1; Sp. p. 364; Gaz. vol. 151; p. 59.
Sutherland, Frank. (See Ross, William G., assignor.)
Sutherland, Fred E. (See Brown and Sutherland.)
Sutherland, Fred E., assignor to The Radial Power Hammer Company, Los Angeles, Cal. Power-hammer. No. 953,768; Apr. 5; Sp. p. 171; Gaz. vol. 153; p. 32.
Sutherland, Fred E., and J. A. Brown, assignors to The Radial Power Hammer Company, Los Angeles, Cal. Combined vise and forming apparatus. No. 951,975; Mar. 15; Sp. p. 3081; Gaz. vol. 152; p. 556.
Sutherland, Fred E., and J. A. Brown, assignors to The Radial Power Hammer Company, Los Angeles, Cal. Die-securing means. No. 978,508; Dec. 13; Sp. p. 2356; Gaz. vol. 161; p. 406.
Sutherland, John H., Danville, Ill. Nut-lock. No. 975,177; Nov. 8; Sp. p. 2496; Gaz. vol. 160; p. 404.
Sutherland, John P., Brooklyn, N. Y. Mount or block for engraved plates. No. 954,223; Apr. 5; Sp. p. 1135; Gaz. vol. 153; p. 188.
Sutherland Rifle Sight Company. (See Pilblad, Eric, assignor.)
Sutor, John M., Oak Park, Ill. Hanger for arc-lamps. No. 963,259; July 5; Sp. p. 600; Gaz. vol. 156; p. 83.
Sutro, Harry H., New York, N. Y. Producing saturated lime-water. No. 973,992; Oct. 25; Sp. p. 5407; Gaz. vol. 159; p. 938.
Sutton, Albert. (See Thomson, Arthur G., assignor.)
Sutton, Henry G., assignor of sixty-five one-hundredths to J. R. Gillette and W. S. Moyer, Philadelphia, Pa. Gas-flashing apparatus for signs. No. 965,545; July 26; Sp. p. 5523; Gaz. vol 156; p. 940.
Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Apparatus for electrostatic magnetic separation. No. 948,599; Feb. 8; Sp. p. 1729; Gaz. vol. 151; p. 300.
Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Electrostatic magnetic separation. No. 977,570; Dec. 6; Sp. p. 351; Gaz. vol. 161; p. 52.
Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Concentrating comminuted material. No. 979,046; Dec. 20; Sp. p. 3515; Gaz. vol. 161; p. 615.
Sutton, James A., Packwood, Iowa. Plow attachment for cultivators. No. 961,044; June 7; Sp. p. 1619; Gaz. vol. 155; p. 271.
Sutton, Robert J., *et al.* (See Wegman, George, assignor.)
Sutton, Walter, Sacramento, Cal. Label-pasting device. No. 971,800; Oct. 4; Sp. p. 601; Gaz. vol. 159; p. 105.
Sutton, William S., assignor to Houston Manufacturing Company, Rockford, Ill. Pipe-coupling. No. 978,957; Dec. 20; Sp. p. 3323; Gaz. vol. 161; p. 585.
Suzuki, Tozaburo, Sunamura, Japan. Vertical boiler. No. 973,720; Oct. 25; Sp. p. 4848; Gaz. vol. 159; p. 843.
Svanberg, Gustaf A., Fort Lee, N. J. Magazine. No. 969,574; Sept. 6; Sp. p. 906; Gaz. vol. 158; p. 144.
Svanda, James, Milwaukee, Wis. Combined curtain-pole and shade-roller supporting bracket. No. 951,225; Mar. 8; Sp. p. 1536; Gaz. vol. 152; p. 276.
Sveistrup, Peter. (See Ludvigsen and Sveistrup.)
Svensen, Andes A., Evanston, Ill. Window cooling-box. No. 946,474; Jan. 11; Sp. p. 3303; Gaz. vol. 150; p. 531.
Svenson, John A., Pittsburg, Pa. Conveyer. No. 945,636; Jan. 4; Sp. p. 1352; Gaz. vol. 150; p. 210.
Svenson, Sven, assignor of one-half to M. C. Munson, La Crosse, Wis. Forming bail-ears on sheet-metal vessels. No. 975,479; Nov. 15; Sp. p. 3122; Gaz. vol. 160; p. 533.
Svensson, Claes A., Buffalo, N. Y. Wire-grip. No. 977,236; Nov. 29; Sp. p. 6973; Gaz. vol. 160; p. 1186.
Svenvig, Nikolai, assignor of one-fourth to W. T. Kirke and one-fourth to J. W. Mason, St. Paul, Minn. Caster. No. 957,480; May 10; Sp. p. 2101; Gaz. vol. 154; p. 364.
Svetlik, Frederick G., Cadott, Wis. Oil-can. No. 945,637; Jan. 4; Sp. p. 1353; Gaz. vol. 150; p. 210.
Swaab, Mayer M., Jr., *et al.* (See Britton, Robb, assignor.)
Swagerty, Thomas I., and A. L. Lowe, Fontana, Kans. Road grader and drag. No. 978,047; Dec. 20; Sp. p. 3522; Gaz. vol. 161; p. 616.
Swain Concentrator Company, The. (See Swain, Seth R., assignor.)
Swain Engine Company. (See Swain, George F., assignor.)
Swain, George F., Chicago, Ill. Internal-combustion engine. No. 972,409; Oct. 11; Sp. p. 1937; Gaz. vol. 159; p. 340.
Swain, George F., assignor to Swain Engine Company, Chicago, Ill. Vaporizer. No. 952,548; Mar. 22; Sp. p. 4235; Gaz. vol. 152; p. 776.
Swain, Seth R., Denver, Colo., assignor to The Swain Concentrator Company. Ore-concentrator. No. 962,990; June 28; Sp. p. 5760; Gaz. vol. 155; p. 1009.
Swain, Willie T., Gosnell, Ark. Saw-vise. No. 954,148; Apr. 5; Sp. p. 950; Gaz. vol. 153; p. 163.
Swainston, William H., Woodlawn, Mich. Saw-set. No. 955,999; Apr. 26; Sp. p. 5002; Gaz. vol. 153; p. 884.
Swallow, Joseph G., New York, N. Y. Time-recorder. No. 954,403; Apr. 5; Sp. p. 1495; Gaz. vol. 153; p. 248.
Swallow, Joseph G., Brooklyn, assignor of one-third to W. E. McCoy and one-third to F. W. Smith, New York, N. Y. Cut-out. No. 946,409; Jan. 11; Sp. p. 3163; Gaz. vol. 150; p. 509.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Receptacle. No. 956,226; Apr. 26; Sp. p. 5521; Gaz. vol. 153; p. 963.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Burner for alcohol-lamps. No. 972,410; Oct. 11; Sp. p. 1940; Gaz. vol. 159; p. 340.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Alcohol-vapor-lamp burner. No. 972,945; Oct. 18; Sp. p. 3178; Gaz. vol. 159; p. 553.
Swan, Charles, Corry, Pa. Shock-absorber. No. 963,094; July 5; Sp. p. 158; Gaz. vol. 156; p. 24.
Swan, Edward, Elko, Nev. Hay-fork. No. 950,875; Mar. 1; Sp. p. 871; Gaz. vol. 152; p. 140.
Swan, Frederick A., Cliftondale, Mass. Strain-relief for lamp-sockets No. 962,063; June 21; Sp. p. 3805; Gaz. vol. 155; p. 666.
Swan, Frederick A., Cliftondale, Mass. Electrical fitting. No. 967,997; Aug. 23; Sp. p. 4579; Gaz. vol. 157; p. 802.
Swan, Frederick A., Cliftondale, Mass. Wire-stripping device. No. 967,998; Aug. 23; Sp. p. 4580; Gaz. vol. 157; p. 803.
Swan, George B., Cross Plains, Tex. Revoluble display-case. No. 951,664; Mar. 8; Sp. p. 2444; Gaz. vol. 152; p. 423.
Swan, George E., Beaver Dam, Wis. Heel-spring. No. 969,001; Aug. 30; Sp. p. 6730; Gaz. vol. 157; p. 1172.
Swan, John C., Marietta, Ohio. Under bit and reamer. No. 973,993; Oct. 25; Sp. p. 5409; Gaz. vol. 159; p. 938.
Swan, John C., Marietta, Ohio. Casing-perforator. No. 973,994; Oct. 25; Sp. p. 5416; Gaz. vol. 159; p. 939.
Swan, John C., Marietta, Ohio. Underreamer. No. 979,106; Dec. 20; Sp. p. 3665; Gaz. vol. 161; p. 636.
Swan, Swan N., Freeport, Ill. Reed-organ. No. 963,827; July 12; Sp. p. 1803; Gaz. vol. 156; p. 296.
Swanberg, Floyd L., assignor to The D. T. Williams Valve Company, Cincinnati, Ohio. Sight-feed lubricator. No. 964,583; July 19; Sp. p. 3406; Gaz. vol. 156; p. 582.
Swangren, Edwin V., Maywood, Ill., assignor to American Can Company, New York, N. Y. Can-body-flanging machine. No. 948,353; Feb. 8; Sp. p. 1194; Gaz. vol. 151; p. 218.
Swangren, Edwin V., Maywood, Ill., assignor to American Can Company, New York, N. Y. Can-body-making machine. No. 975,655; Nov. 15; Sp. p. 3514; Gaz. vol. 160; p. 594.
Swann, Scott, Fort Wayne, Ind. Switch throwing and locking device. No. 968,433; Aug. 23; Sp. p. 5520; Gaz. vol. 157; p. 952.
Swanson, Albert J., Stockport, Iowa. Automatic music-leaf turner. No. 970,766; Sept 20; Sp. p. 3493; Gaz. vol. 158; p. 598.
Swanson, Charles. (See Phail and Swanson.)
Swanson, Charles, *et al.* (See Wallen, Carl J., assignor.)
Swanson, George A., Oakland, Cal. Folding bed, table, and seat. No. 972,484; Oct. 11; Sp. p. 2093; Gaz. vol. 159; p. 364.
Swanson, Herman S., Shenandoah, Iowa. Portable wagon-dump and grain-elevator. No. 966,062; Aug. 2; Sp. p. 477; Gaz. vol. 157; p. 76.
Swanson, John A., Canton, S. D. Windmill. No. 961,658; June 14; Sp. p. 2925; Gaz. vol. 155; p. 507.
Swanson, Ludvig G., assignor of one-half to H. W. Gutermann, Springfield, Mass. Guard for birds. No. 974,722; Nov. 1; Sp. p. 1464; Gaz. vol. 160; p. 225
Swanson, Matt F., Reading, Ill. Kiln. No. 961,266; June 14; Sp. p. 2078; Gaz. vol. 155; p. 374.
Swanson, Olof, La Junta, Colo. Curtain-releasing attachment for car-vestibules. No. 965,048; July 19; Sp. p. 4448; Gaz. vol. 156; p. 740.
Swanson, Sam A., Farmington, Wis. Weeder attachment for cultivators. No. 965,961; Aug. 2; Sp. p. 236; Gaz. vol. 157; p. 40.
Swanstrom, John M., Chicago, Ill. Device for raising water. No. 979,107; Dec. 20; Sp. p. 3669; Gaz. vol. 161; p. 637.
Swanstrom, Martin S. Chicago, Ill. Windmill. No. 963,335; July 5; Sp. p. 746; Gaz. vol. 156; p. 108.
Swarin, Axel, New London, Conn. Desk-pad. No. 962,798; June 28; Sp. p. 5409; Gaz. vol. 155; p. 944.
Swart, Fred M., Margaretville, N. Y. Stirrup. No. 970,664; Sept. 20; Sp. p. 3260; Gaz. vol. 158; p. 598.

Alphabetical list of patentees—Continued.

Swart, Walter G., Denver, Colo., assignor to The Blake Mining and Milling Company. Electrostatic separating process. No. 959,646; May 31; Sp. p. 6959; Gaz. vol. 154; p. 1185.
Swartchild & Co. (See Meyer, William J., assignor.)
Swarts, Henry J., Alhambra, assignor of one-half to C. H. Temple, Los Angeles, Cal. Foldable stool or table. No. 948,533; Feb. 8; Sp. p. 1583; Gaz. vol. 151; p. 279.
Swartz, Charles A., and S. Finley, Frederick, Okla. Liquid-fuel burner. No. 973,995; Oct. 25; Sp. p. 5420; Gaz. vol. 159; p. 939.
Swartz, Fred M., Providence, R. I., assignor to The Alpha Jewelry Company. Pin. No. 948,775; Feb. 8; Sp. p. 2120; Gaz. vol. 151; p. 360.
Swartz, Maurice, Englewood, N. J. Insect-trap. No. 963,483; July 5; Sp. p. 1039; Gaz. vol. 156; p. 158.
Swartz, Warren E., assignor to Milwaukee Casket Company, Milwaukee, Wis. Burial-casket. No. 969,421; Sept. 6; Sp. p. 579; Gaz. vol. 158; p. 92.
Swasey, Ambrose, assignor to The Warner & Swasey Co., Cleveland, Ohio. Telescope. No. 959,179; May 24; Sp. p. 5998; Gaz. vol. 154; p. 1003.
Swasey, Ambrose, assignor to The Warner & Swasey Company, Cleveland, Ohio. Sight for firearms. No. 964,709; July 19; Sp. p. 3758; Gaz. vol. 156; p. 625.
Swash Motor Washer Company, The. (See Yassenoff, Isidor, assignor.)
Sweatt, William H., Oklahoma, Okla. Sign-holder. No. 977,343; Nov. 29; Sp. p. 7186; Gaz. vol. 160; p. 1222.
Sween, Anton K., Madison, Wis. Dispensing can or vessel. No. 955,013; Apr. 12; Sp. p. 2873; Gaz. vol. 153; p. 487.
Sweeney, Benjamin F., Neosho, Mo. Self-tier for hay-presses. No. 949,857; Feb. 22; Sp. p. 4362; Gaz. vol. 151; p. 783.
Sweeney, E. H. (See Hughes, Isaac W., assignor.)
Sweeney, James. (See Chippendale, Harry A., assignor.)
Sweeney, John, Johnstown, Pa. Music-rack. No. 954,358; Apr. 5; Sp. p. 1406; Gaz. vol. 153; p. 233.
Sweeney, Patrick W. (See Kennedy, Oliver J., assignor.)
Sweeney, Patrick W., and O. J. Kennedy, San Diego, Cal. Irrigation system. No. 954,059; Apr. 5; Sp. p. 755; Gaz. vol. 153; p. 132.
Sweeney, Peter J., Windsor, Ontario, Canada, assignor to Penberthy Injector Company, Detroit, Mich. Lubricator. No. 960,730; June 7; Sp. p. 997; Gaz. vol. 155; p. 167.
Sweeney, Vardiman T., Anchorage, Ky. Vehicle-brake. No. 957,632; May 10; Sp. p. 2404; Gaz. vol. 154; p. 416.
Sweeny, James K., Pueblo, Colo. Compound liquid-piston air compressing and pumping apparatus. No. 960,729; June 7; Sp. p. 992; Gaz. vol. 155; p. 165.
Sweeny, Jared S., and W. W. Grindle, Decatur, Ill. Feed-water heater. No. 960,209; May 31; Sp. p. 8184; Gaz. vol. 154; p. 1377.
Sweet, Arthur E. (See Latcham, Richard, assignor.)
Sweet, Burton W., Cleveland, Ohio, assignor, by mesne assignments, to Century Telephone Construction Company, Buffalo, N. Y. Selective ringing-key. No. 947,722; Jan. 25; Sp. p. 6021; Gaz. vol. 150; p. 1003.
Sweet, Burton W., Cleveland, Ohio, assignor, by mesne assignments, to Century Telephone Construction Company, Buffalo, N. Y. Telephone desk-set apparatus and circuit. No. 978,958; Dec. 20; Sp. p. 3324; Gaz. vol. 161; p. 585.
Sweet, Burton W., assignor to H. Z. Sands, Cleveland, Ohio. Telephone desk set. No. 950,809; Mar. 1; Sp. p. 748; Gaz. vol. 152; p. 120.
Sweet, Burton W., assignor to H. Z. Sands, Cleveland, Ohio. Telephone switch-hook. No. 958,979; May 24; Sp. p. 5577; Gaz. vol. 154; p. 937.
Sweet, Charles E., Fort Madison, Iowa. Mill-carriage attachment. No. 959,899; May 31; Sp. p. 7509; Gaz. vol. 154; p. 1269.
Sweet, Charles E., Wilkinsburg, Pa., assignor to The Westinghouse Machine Company. Blade-mounting means. No. 945,204; Jan. 4; Sp. p. 410; Gaz. vol. 150; p. 68.
Sweet, Charles E., Wilkinsburg, Pa., assignor to The Westinghouse Machine Company. Fastening means for turbine-blades. No. 966,138; Aug. 2; Sp. p. 609; Gaz. vol. 157; p. 100.
Sweet, Charles E., Wilkinsburg, Pa., assignor to The Westinghouse Machine Company. Blade-holding means. No. 972,411; Oct. 11; Sp. p. 1942; Gaz. vol. 159; p. 341.
Sweet, Clifford G., Aurora, Ill. Rosin-applicator. No. 978,410; Dec. 13; Sp. p. 2148; Gaz. vol. 161; p. 374.
Sweet, Ernest E., assignor to Cadillac Motor Car Company, Detroit, Mich. Valve. No. 957,391; May 10; Sp. p. 1926; Gaz. vol. 154; p. 334.
Sweet, George C., Waterloo, and C. Weiss, New York, N. Y. Controlling device for internal-combustion engines. No. 949,858; Feb. 22; Sp. p. 4369; Gaz. vol. 151; p. 783.
Sweet, Homer E., Portland, Oreg. Cutlery-grinder. No. 961,554; June 14; Sp. p. 2719; Gaz. vol. 155; p. 472.
Sweet, John A. (See Pease and Sweet.)
Sweet, Olive. (See Anderson, Julius, assignor.)
Sweet, Orr & Company. (See Bate, William L., assignor.)
Sweet, Orr & Company. (See Howe, Charles E., assignor.)
Sweet, Walter A. (See Bickford and Sweet.)
Sweet, Welcome F., St. Louis, Mo. Street-car advertising device. No. 974,307; Nov. 1; Sp. p. 515; Gaz. vol. 160; p. 76.
Sweeting, James A., New York, N. Y. Turner. No. 967,263; Aug. 16; Sp. p. 3068; Gaz. vol. 157; p. 531.
Sweetland, James H., Hall Quarry, assignor of one-half to W. L. Sweetland, Stonington, Me. Bush-hammer. No. 946,286; Jan. 11; Sp. p. 2804; Gaz. vol. 150; p. 467.
Sweetland, Walter L. (See Sweetland, James H., assignor.)
Sweetland, William, *et al.* (See Hall, George F., assignor.)
Sweetser, Charles, San Antonio, Tex. Fan. No. 971,703; Oct. 4; Sp. p. 401; Gaz. vol. 159; p. 70.
Sweetser, George, London, England. Electric switch. No. 979,354; Dec. 20; Sp. p. 4182; Gaz. vol. 161; p. 722.
Swegles, John, assignor of one-third to A. A. Snyder and one-third to J. P. Snyder, Wayne, Mich. Pruning implement. No. 973,582; Oct 25; Sp. p. 4552; Gaz. vol. 159; p. 794.
Sweigart, Frank T., Kokomo, Ind. Gas-engine starter. No. 969,756; Sept. 6; Sp. p. 1298; Gaz. vol. 158; p. 208.
Sweinhagen, Herman D., and F. A. Theobald, Napoleon, Ohio. Bed-bottom. No. 973,233; Oct. 18; Sp. p. 3818; Gaz. vol. 159; p. 652.
Sweitzer, Elizabeth F. (See Milholland and Sweitzer.)
Sweley, Charles F., Fruita, Colo. Orchard-heater. No. 950,414; Feb. 22; Sp. p. 5557; Gaz. vol. 151; p. 974.
Swenson, Gustaf, Pittsburg, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 973,721; Oct. 25; Sp. p. 4849; Gaz. vol. 159; p. 843.
Swenson, John M., White Rock, S. D. Thresher and separator. No. 953,068; Mar. 29; Sp. p. 5340; Gaz. vol. 152; p. 982.
Swenson, Jonas A., St. Charles, S. D. Carpenter's tool. No. 978,509; Dec. 13; Sp. p. 2357; Gaz. vol. 161; p. 407.
Swenson, Luther L., Ottumwa, Iowa. Nut-lock. No. 961,819; June 21; Sp. p. 3277; Gaz. vol. 155; p. 584.
Swensson, John, New York, N. Y. Illuminated sign. No. 966,267; Aug. 2; Sp. p. 899; Gaz. vol. 157; p. 144.
Swerdlove, William M., New York, N. Y. Cloth-piling machine. No. 973,891; Oct. 25; Sp. p. 5200; Gaz. vol. 159; p. 903.
Swett, Levi J., Burlington, Vt. Jointed rule. No. 972,134; Oct. 4; Sp. p. 1339; Gaz. vol. 159; p. 226.
Swett, Lyman R., Boston, Mass. Combined letter-sheet and envelop. No. 946,830; Jan. 18; Sp. p. 4081; Gaz. vol. 150; p. 676.
Swift, E. W. (See Payne and Wallace, assignors.)
Swift, Francis E., assignor to The Swift Furnace Company, Dayton, Ohio. Furnace. No. 949,783; Feb. 22; Sp. p. 4191; Gaz. vol. 151; p. 757.
Swift Furnace Company, The. (See Swift, Francis E., assignor.)
Swift, George W., Jr., Bordentown, N. J. Gripping, pasting, and folding mechanism. No. 961,324; June 14; Sp. p. 2242; Gaz. vol. 155; p. 395.
Swift, George W., Jr., Bordentown, N. J. Feeding device. No. 963,828; July 12; Sp. p. 1804; Gaz. vol. 156; p. 296.
Swift, James F., Muskogee, Okla. Table-leveler. No. 972,287; Oct. 11; Sp. p. 1694; Gaz. vol. 159; p. 298.
Swift, John P., Pawtucket, R. I. Reversing-governor for explosive-engines. No. 949,859; Feb. 22; Sp. p. 4379; Gaz. vol. 151; p. 784.
Swift, Robert W., Detroit, Mich. Variable-speed power-transmission mechanism. No. 974,308; Nov. 1; Sp. p. 517; Gaz. vol. 160; p. 77.
Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for applying metallic fasteners to envelops. No. 965,252; July 26; Sp. p. 4853; Gaz. vol. 156; p. 838.
Swift, Willis C. (See Jobb, Charles L., assignor.)
Swindell, Charles. (See Swindell, Etta, assignor.)
Swindell, Etta, assignor to C. Swindell, Nashville, Tenn. Stocking-cap. No. 975,582; Nov. 15; Sp. p. 3355; Gaz. vol. 160; p. 569.
Swindell, James D., Pittsburg, Pa. Annealing-furnace. No. 960,434; June 7; Sp. p. 393; Gaz. vol. 155; p. 65.
Swindell, John A. (See Swindell, John C. and J. A.)
Swindell, John C. and J. A., Pittsburg, Pa. Gas-producer. No. 947,065; Jan. 18; Sp. p. 4573; Gaz. vol. 150; p. 754.
Swindell, John C. and J. A., Pittsburg, Pa. Feeding mechanism for gas-producers. No. 951,665; Mar. 8; Sp. p. 2446; Gaz. vol. 152; p. 423.
Swindell, John C. and J. A., Pittsburg, Pa. Gas-producer. No. 953,497; Mar. 29; Sp. p. 6287; Gaz. vol. 152; p. 1127.
Swindell, Walter B., Raleigh, N. C. Motion-picture film-reel mechanism. No. 970,570; Sept. 20; Sp. p. 3041; Gaz. vol. 158; p. 530.
Swindler, Albert, Browns Valley, Ind. Writing-machine for the use of the blind. No. 977,237; Nov. 29; Sp. p. 6976; Gaz. vol. 160; p. 1186.
Swindler, Edgar L., Beaumont, Tex. Reclining rocking-chair. No. 971,704; Oct. 4; Sp. p. 403; Gaz. vol. 159; p. 70.
Swinehart, Benjamin C., Akron, Ohio. Vehicle-tire. No. 954,224; Apr. 5; Sp. p. 1136; Gaz. vol. 153; p. 189.
Swinehart, James A., Akron, Ohio. Vehicle-tire and fastening means therefor. No. 954,225; Apr. 5; Sp. p. 1138; Gaz. vol. 153; p. 189.
Swingle, Angeline L., Putney, S. D. Water-bottle. No. 970,767; Sept. 20; Sp. p. 3496; Gaz. vol. 158; p. 598.

Alphabetical list of patentees—Continued.

Swinscoe, Charles, assignor to Clinton Wire Cloth Company, Clinton, Mass. Welded fabric. No. 949,668; Feb. 15; Sp. p. 3919; Gaz. vol. 151; p. 683.
Switchboard Equipment Company. (See Badeau, Charles C., assignor.)
Switzer, Elmer E., Huttig, Ark. Rod-packing. No. 952,769; Mar. 22; Sp. p. 4727; Gaz. vol. 152; p. 853.
Swoboda, Adolf, assignor of one-half to Enzesfelder Munitions- und Metallwerke Anton Keller Akt. Ges., Vienna, Austria-Hungary. Striking-surface on safety-match boxes, &c. No. 949,920; Feb. 22; Sp. p. 4515; Gaz. vol. 151; p. 806.
Swoger, James W. (See Burns and Swoger.)
Swope, Frederick E., Jr., Philadelphia, Pa. Ground-joint connection. No. 946,990; Jan. 18; Sp. p. 4433; Gaz. vol. 150; p. 730.
Sword, William F. (See Jaeger, Maximillian, assignor.)
Sword, William F., Pawtucket, R. I., assignor to E. S. Cameron, Beverly, Mass. Transmission-gearing No. 959,900; May 31; Sp. p. 7510; Gaz. vol. 154; p. 1269.
Swoveland, William F., Altoona, Pa. Protective safety device for electrical circuits. No. 978,676; Dec. 13; Sp. p. 2730; Gaz. vol. 161; p. 465.
Sydeman, Abraham, Boston, and J. Meade, Stoughton, Mass.; said Meade assignor to said Sydeman. Apparatus for treating coated textile fabric. No. 976,231; Nov. 22; Sp. p. 4740; Gaz. vol. 160; p. 813.
Sydney, Sidney J., Philadelphia, Pa. Tunnel construction. No. 967,264; Aug. 16; Sp. p. 3069; Gaz. vol. 157; p. 532.
Sydow, John F., Gatesville, Tex. Window-lock. No. 957,124; May 3; Sp. p. 1330; Gaz. vol. 154; p. 212.
Sykes, George A., *et al.* (See Rapp, Louis P., assignor.)
Sykes, William W., assignor of one-third to W. H. Owens, Manchester, and one-third to L. Casselman, Richmond, Va. Locomotive ash-pan. No. 962,269; June 21; Sp. p. 4262; Gaz. vol. 155; p. 737.
Sylvester, Walter, Tunstall, England. Pulling-jack. No. 963,095; July 5; Sp. p. 159; Gaz. vol. 156; p. 24.
Sylvester, Wilber A., assignor to C. R. Wilson, Detroit, Mich. Machine for beading and flanging sheet metal. No. 974,204; Nov. 1; Sp. p. 231; Gaz. vol. 160; p. 37.
Sylvester, Wilber A., assignor to C. R. Wilson, Detroit, Mich. Machine for shearing sheet-metal blanks. No. 976,757; Nov. 22; Sp. p. 5886; Gaz. vol. 160; p. 994.
Sylvester, William, assignor to Four Utensil Manufacturing Company, Pittsburg, Pa. Cooking vessel. No. 959,647; May 31; Sp. p. 6964; Gaz. vol. 154; p. 1185.
Symington, Thomas H., Baltimore, Md. Journal-box lid. No. 952,481; Mar. 22; Sp. p. 4083; Gaz. vol. 152; p. 754.
Symmonds, Robert, Kenosha, Wis., assignor to Thomas B. Jeffery & Company. Speed-changing mechanism. No. 945,059; Jan. 4; Sp. p. 107; Gaz. vol. 150; p. 19.
Symmonds, Robert, Jr., assignor to T. B. Jeffery, Kenosha, Wis. Automobile steering mechanism. No. 948,800; Feb. 8; Sp. p. 2172; Gaz. vol. 151; p. 369.
Symmonds, Robert, Jr., Kenosha, Wis., assignor, by mesne assignments, to K. E., C. T., and H. W. Jeffery, executors of T. B. Jeffery, deceased. Clutch. No. 975,583; Nov. 15; Sp. p. 3356; Gaz. vol. 160; p. 570.
Symonds, Ernest F., Salem, and R. J. Goodnow, Boston, Mass. Lemon-server. No. 971,573; Oct. 4; Sp. p. 135; Gaz. vol. 159; p. 25.
Symons, Josiah E., Sheridan, Ind. Crushing-machine. No. 970,571; Sept. 20; Sp. p. 3045; Gaz. vol. 158; p. 530.
Synoloids Limited. (See Schwartz, York, assignor.) (Reissue.)
Syverson, Albert I. and C. C., Pelican Rapids, Minn. Binder. No. 968,268; Aug. 2; Sp. p. 900; Gaz. vol. 157; p. 144.
Syverson, Cornelius C. (See Syverson, Albert I. and C. C.)
Szabo, George J., Portvue, assignor of one-half to J. Tomcsanyi, Homestead, Pa. Tin-plate-catching machine. No. 970,134; Sept. 13; Sp. p. 2117; Gaz. vol. 158; p. 360.
Szakáll, Franz, Palota-Mjfalu, and D. Kardos, Budapest, assignors, by mesne assignments, to Firm "Rops" Metallwaaren-Aktiengesellschaft, Budapest, Austria-Hungary. Safety methylated-spirit stove. No. 946,690; Jan. 18; Sp. p. 3750; Gaz. vol. 150; p. 627.
Szalai, Ignac, Zala-Szent-Groth, assignor to Vogel & Noot, Vienna, Austria-Hungary. Pitchfork made of pressed sheet metal. No. 967,854; Aug. 16; Sp. p. 4268; Gaz. vol. 157; p. 730.
Szamek, Iacques, Cambridge, Mass. Apparatus for mixing liquids. No. 945,143; Jan. 4; Sp. p. 269; Gaz. vol. 150; p. 47.
Szombathy, Josef, St. Louis, Mo. Miner's safety-lamp. No. 973,234; Oct. 18; Sp. p. 3819; Gaz. vol. 159; p. 653.
Sztencel, Stanislaus. (See Blacher and Sztencel.)
T. McAvity & Sons Limited. (See McShane, William J., assignor.)
T. B. Laycock Manufacturing Company, The. (See Lindley, James F., Jr., assignor.)
T. C. Prouty Company. (See Hamilton, Lew L., assignor.)
T. C. Prouty Company. (See Merriman, Mark, assignor.)
T. F. McGann & Sons Company, The. (See McGann, Thomas F., assignor.)
T. J. Thorp Manufacturing Company, The. (See Sunderland, Jesse W., assignor.)
T. J. Thorp Manufacturing Company. (See Thorp, Thomas J., assignor.)
T. L. Smith Company, The. (See Smith, Thomas L., assignor.)
T. W. Phillips Mfg. Co. (See Clarke, Arthur F., assignor.)
T. W. and C. B. Sheridan Company. (See Lucke and Blake, assignors.)
Taber, Charles A., Oakland, Cal. Chemical-mixing hopper. No. 946,809; Jan. 18; Sp. p. 4030; Gaz. vol. 150; p. 669.
Taber, Charles H., Woodlawn, Pa. Combined papering board and scaffold. No. 979,220; Dec. 20; Sp. p. 3932; Gaz. vol. 161; p. 678.
Taber, George H., Pittsburg, Pa. Throttle mechanism for automobiles. No. 947,705; Jan. 25; Sp. p. 5990; Gaz. vol. 150; p. 997.
Tabler, Charles F. W., Boston, Mass. Planetary transmission mechanism. No. 956,227; Apr. 26; Sp. p. 5522; Gaz. vol. 153; p. 963.
Tabler, Harry C. (See Dougherty and Tabler.)
Tabler, John H., Washington, D. C. Luggage-carrier. No. 946,850; Jan. 18; Sp. p. 4126; Gaz. vol. 150; p. 683.
Tabor, Leroy. (See Lewis and Tabor.)
Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.)
Tabor Manufacturing Company, The. (See Lewis and Ramsden, assignors.)
Tabor Manufacturing Company, The. (See Ramsden, John T., assignor.)
Tabor, Thomas H., Ellijay, Ga. Vegetable and fruit slicer. No. 950,415; Feb. 22; Sp. p. 5558; Gaz. vol. 151; p. 974.
Tabulating Machine Company, The. (See Hollerith, Herman, assignor.)
Tache, Simon, Cleveland, Ohio. Instantaneous water-heater. No. 958,563; May 17; Sp. p. 4682; Gaz. vol. 154; p. 769.
Tacy, Samuel H. (See Bennett, Frederick M., assignor.)
Taft, F. C. (See Polleys, Charles G., assignor.)
Taggart, Samuel, *et al.* (See Choate, Charles N., assignor.)
Taglauer, John J. (See Draper, John F., assignor.)
Tagliabue, Charles J. (See Allinger, Albert A., assignor.)
Tahir, Henri, Jr., San Bernardino, Cal. Shifting device for type-writers. No. 968,093; Aug. 23; Sp. p. 4802; Gaz. vol. 157; p. 834.
Taillefer, Isaie, Sault Ste. Marie, Ontario, Canada. Cushion-heel. No. 968,434; Aug. 23; Sp. p. 5523; Gaz. vol. 157; p. 953.
Tainter, Simon S. and W. W., and G. P. Stanley, Dixfield, Me. Boxing-machine. No. 953,358; Mar. 29; Sp. p. 5984; Gaz. vol. 152; p. 1077.
Tainter, Willis W. (See Tainter and Stanley.)
Tainter, Willis W., and G. P. Stanley, Dixfield, Me. Cutting-wheel. No. 953,359; Mar. 29; Sp. p. 5991; Gaz. vol. 152; p. 1077.
Tainter, Willis W., and G. P. Stanley, Dixfield, Me. Toothpick-machine. No. 953,360; Mar. 29; Sp. p. 5994; Gaz. vol. 152; p. 1078.
Taintor, Charles C., Elizabeth, N. J. Tool. No. 957,271; May 10; Sp. p. 1683; Gaz. vol. 154; p. 295.
Taisey Pneumatic Service Company. (See Bemis, Thomas, assignor.)
Tait, George W., administrator. (See Whittles, Jeremiah C., assignor.)
Tait, Godfrey M. S., Montclair, N. J., assignor to Gas Power Company, New York, N. Y. Apparatus for gas analysis. No. 963,484; July 5; Sp. p. 1041; Gaz. vol. 156; p. 158.
Tait, James J., Meota, Saskatchewan, Canada. Gage-lever mechanism for plows. No. 960,435; June 7; Sp. p. 394; Gaz. vol. 155; p. 66.
Tait, Wilfred E., Beverly, Mass. Pipe attachment. No. 975,584; Nov. 15; Sp. p. 3359; Gaz. vol. 160; p. 570.
Takacs, Julius V. (See Kenyeres, Samuel, assignor.)
Takacs, Stefan, Chicago, Ill. Folding tent. No. 964,333; July 12; Sp. p. 2829; Gaz. vol. 156; p. 466.
Takamine, Jokichi, New York, N. Y. Converting starchy material into sugar. No. 975,656; Nov. 15; Sp. p. 3519; Gaz. vol. 160; p. 594.
Takamine, Jokichi, New York, N. Y., assignor to Parke, Davis & Company, Detroit, Mich. Glandular compound and producing same. No. 945,638; Jan. 4; Sp. p. 1354; Gaz. vol. 150; p. 211.
Takano, Yaichiro, Atlantic City, N. J. Trousers-stretcher. No. 972,662; Oct. 11; Sp. p. 2515; Gaz. vol. 159; p. 428.
Talbert, Daniel H., C. Shaw, J. I. Holcomb, and J. F. Hoke, Jr.; said Shaw, Holcomb, and Hoke, Jr., assignors to The American Box Ball Company, Indianapolis, Ind. Game apparatus. No. 948,776; Feb. 8; Sp. p. 2121; Gaz. vol. 151; p. 360.
Talbert, Edgar H., Washington, D. C., assignor of one-half to H. A. Hale, Johnson City, Tenn. Window-screen. No. 971,477; Sept. 27; Sp. p. 4910; Gaz. vol. 158; p. 859.
Talbot, Ernest, New York, N. Y. Piston. No. 975,301; Nov. 8; Sp. p. 2768; Gaz. vol. 160; p. 447.
Talbot, Frank M., Glen Ridge, N. J. Apparatus for building retaining-walls. No. 957,521; May 10; Sp. p. 2190; Gaz. vol. 154; p. 378.
Talbot, James A., and H. E. Brett, Los Angeles, Cal. Clutch mechanism. No. 951,084; Mar. 1; Sp. p. 1254; Gaz. vol. 152; p. 206.

Alphabetical list of patentees—Continued.

Talbot, John W., Chicago, Ill., assignor of one-half to F. I. Hall and one-half to H. H. Hall, Middletown, Conn. Quoin. No. 948,000; Feb. 1; Sp p. 459; Gaz. vol. 151; p. 74.
Talbot, Oliver C., Kansas City, Mo. Automatic clutch. No. 965,606; July 26; Sp. p. 5652; Gaz. vol. 156; p. 961.
Talbot, Reginald S. (See Vollmer and Talbot.)
Talbott, Albert R., Ellis, Kans. Sterilizer and water-heater. No. 950,876; Mar. 1; Sp. p. 872; Gaz. vol. 152; p. 140.
Talen, Maurice W., assignor to Weller Manufacturing Company, Chicago, Ill. Power mechanism for grain-shovels and the like. No. 946,621; Jan. 18; Sp. p. 3606; Gaz. vol. 150; p. 606.
Talen, Maurice W., assignor to Weller Manufacturing Company, Chicago, Ill. Riveting or punching machine. No. 952,151; Mar. 15; Sp. p. 3412; Gaz. vol. 152; p. 614.
Taliaferro, Edward E., and E. J. Goldsworthy, Colorado Springs, Colo. Cigar-holder. No. 954,060; Apr. 5; Sp. p. 757; Gaz. vol. 153; p. 132.
Taliaferro, John C. (See Abrams and Taliaferro.)
Taliaferro, John C. (See Krummel and Taliaferro.)
Taliaferro, John C., Baltimore, Md. Sealing composition. No. 965,765; July 26; Sp. p. 5981; Gaz. vol. 156; p. 1016.
Talley, Herbert, assignor to Independent Powder Company of Missouri, Joplin, Mo. Mixing-machine for explosives. No. 946,475; Jan. 11; Sp. p. 3305; Gaz. vol. 150; p. 531.
Talley, Robert W., Clarendon, Tex. Table duplicating-tablet holder. No. 966,486; Aug. 9; Sp. p. 1369; Gaz. vol. 157; p. 242.
Tallouse, John, Oakland, Me. Stake-brace for lumber-cars. No. 969,671; Sept. 6; Sp. p. 1099; Gaz. vol. 158; p. 177.
Talmage, John G. (See Curtis, Theodore H., assignor.)
Talmage, John G., Cleveland, Ohio. Valve. No. 952,691; Mar. 22; Sp. p. 4550; Gaz. vol. 152; p. 827.
Talmage, John G., Cleveland, Ohio. Discharge-controller for ash-pans. No. 978,074; Dec. 6; Sp. p. 1402; Gaz. vol. 161; p. 226.
Tamassy, Zoltan. (See Csiky, Kronheim, and Tamassy.)
Tambach, Rudolf, assignor to Knoll and Company, Ludwigshafen-on-the-Rhine, Germany. Casein derivatives or compounds and making the same. No. 967,584; Aug. 16; Sp. p. 3733; Gaz. vol. 157; p. 642.
Tambour, Joseph, Nanterre, near Paris, France. Safety device for breech-actions of small-arms. No. 947,066; Jan. 18; Sp. p. 4576; Gaz. vol. 150; p. 754.
Tams, Joseph, Trenton, N. J. Button. No. 949,310; Feb. 15; Sp. p. 3201; Gaz. vol. 151; p. 564.
Tanchoff, Barney, Kansas City, Kans. Stove. No. 947,205; Jan. 18; Sp. p. 4843; Gaz. vol. 150; p. 799.
Tandy, John L., Kansas City, Mo. Display-truck. No. 955,014; Apr. 12; Sp. p. 2875; Gaz. vol. 153; p. 487.
Tandy, John L., Kansas City, Mo. Folding bed. No. 958,682; May 17; Sp. p. 4913; Gaz. vol. 154; p. 807.
Tångring, Olof, assignor to American Steel & Wire Company, Worcester, Mass. Cable connection. No. 949,921; Feb. 22; Sp. p. 4516; Gaz. vol. 151; p. 806.
Tanihara, Zentaro, Boston, Mass. Shoe-fastening. No. 977,982; Dec. 6; Sp. p. 1213; Gaz. vol. 161; p. 195.
Tank, August F., Sandusky, Mich. Holdback. No. 968,288; Aug. 23; Sp. p. 5237; Gaz. vol. 157; p. 902.
Tanner, Curtis S., San Francisco, Cal. Stencil-printing machine. No. 952,589; Mar. 22; Sp. p. 4320; Gaz. vol. 152; p. 791.
Tanner, Dana F., Holland, N. Y. Neck-yoke. No. 964,134; July 12; Sp. p. 2436; Gaz. vol. 156; p. 400.
Tanner, Daniel N., assignor of one-half to C. J. Shumaker, Tupelo, Miss. Blacksmith's pliers. No. 961,989; June 21; Sp. p. 3638; Gaz. vol. 155; p. 640.
Tanner, Frank J., assignor to International Text Book Company, Scranton, Pa. Type-writing machine. No. 979,355; Dec. 20; Sp. p. 4183; Gaz. vol. 161; p. 722.
Tanner, Frank J., and I. E. Jones, assignors to International Text Book Company, Scranton, Pa. Type-writing machine. No. 964,135; July 12; Sp. p. 2437; Gaz. vol. 156; p. 400.
Tanner, Julius R., assignor to The Pittsburgh Valve, Foundry and Construction Company, Pittsburg, Pa. Steam-trap. No. 971,801; Oct. 4; Sp. p. 603; Gaz. vol. 159; p. 106.
Tanner, Julius R., assignor to The Pittsburgh Valve, Foundry and Construction Company, Pittsburg, Pa. Non-return valve. No. 971,802; Oct. 4; Sp. p. 605; Gaz. vol. 159; p. 106.
Tanner, Julius R., Pittsburg, Pa., and D. B. Banks, Baltimore, Md. Pipe-joint. No. 969,422; Sept. 6; Sp. p. 581; Gaz. vol. 158; p. 92.
Tanner, Julius R., Pittsburg, Pa., and D. B. Banks, Baltimore, Md. Pipe-joint. No. 969,423; Sept. 6; Sp. p. 582; Gaz. vol. 158; p. 93.
Tannert, Charles C., Brooklyn, N. Y. Top-spinning device. No. 971,420; Sept. 27; Sp. p. 4808; Gaz. vol. 158; p. 841.
Tannewitz, Edward, Grand Rapids, Mich. Ink-well. No. 945,060; Jan. 4; Sp. p. 110; Gaz. vol. 150; p. 19.
Tapia, Frank L., Tuscaloosa, Ala. Railway-switch signal. No. 967,855; Aug. 16; Sp. p. 4269; Gaz. vol. 157; p. 731.
Tapio, William. (See Starmer and Tapio.)
Tapley, Emily S., administratrix. (See Tapley, John P.)
Tapley, John P., deceased; E. S. Tapley, Brooksville, Me., administratrix. Horizon-gage. No. 964,069; July 12; Sp. p. 2292; Gaz. vol. 156; p. 377.
Taplin, Alvin, Forestville, Conn. Plant-spray. No. 952,152; Mar. 15; Sp. p. 3419; Gaz. vol. 152; p. 615.
Taplin, Rice-Clerkin Company, The. (See Clerkin, William, assignor.)
Tappan, Frank T. (See Crocker and Tappan.)
Tappan, Jairos M., Luther, Mich. Whiffletree-hook. No. 948,354; Feb. 8; Sp. p. 1197; Gaz. vol. 151; p. 219.
Tappin, Silas, Webster, S. D. Grain-door for box-cars. No. 967,856; Aug. 16; Sp. p. 4272; Gaz. vol. 157; p. 731.
Tarbutt, Perry. (See Webb, John F., assignor.)
Tardieu, Victorien, Arles, France. Telephone-microphone. No. 954,829; Apr. 12; Sp. p. 2487; Gaz. vol. 153; p. 423.
Tardieu, Victorien, Arles, France. Long-distance-telephonic apparatus. No. 956,228; Apr. 26; Sp. p. 5524; Gaz. vol. 153; p. 964.
Tardif, Omeril, Plessisville, Quebec, Canada. Potato-digger. No. 972,037; Oct. 4; Sp. p. 1157; Gaz. vol. 159; p. 194.
Tari, John, East Columbus, Ohio. Trolley. No. 975,302; Nov. 8; Sp. p. 2770; Gaz. vol. 160; p. 447.
Tarkington, Matthew S., Tulare, Cal. Cream-float-locking device. No. 962,799; June 28; Sp. p. 5410; Gaz. vol. 155; p. 944.
Tarleton, George H., West Somerville, Mass. Pipe-hanger. No. 952,053; Mar. 15; Sp. p. 3233; Gaz. vol. 152; p. 582.
Tarnawski, Peter F., assignor of one-half to P. W. Nicola, Leavenworth, Kans. Portable sanitary water-closet. No. 971,803; Oct. 4; Sp. p. 606; Gaz. vol. 159; p. 106.
Tarr, John P., Jingo, Tenn. Sign. No. 979,221; Dec. 20; Sp. p. 3934; Gaz. vol. 161; p. 679.
Tarrant, Asa L. (See Hixson and Tarrant.)
Tarvardian, Havakim, New Britain, Conn. Cane-rifle. No. 969,672; Sept. 6; Sp. p. 1100; Gaz. vol. 158; p. 177.
Tas, Herman, Clerkenwell, England. Advertising device. No. 963,336; July 5; Sp. p. 747; Gaz. vol. 156; p. 108.
Tate, Alfred O., Toronto, Ontario, Canada. Rejuvenating storage batteries. No. 949,506; Feb. 15; Sp. p. 3615; Gaz. vol. 151; p. 630.
Tate, Alfred O., Toronto, Ontario, Canada. Rejuvenating storage batteries. No. 949,507; Feb. 15; Sp. p. 3616; Gaz. vol. 151; p. 630.
Tate, Alfred O., Toronto, Ontario, Canada. Primary-battery plate. No. 977,145; Nov. 29; Sp. p. 6789; Gaz. vol. 160; p. 1154.
Tate, Edwin, and J. M. Goodall, London, England. Device for determining the metacentric height of vessels. No. 958,192; May 17; Sp. p. 3797; Gaz. vol. 154; p. 642.
Tate, James E., Middleton, Ga. Kitchen-cabinet. No. 965,253; July 26; Sp. p. 4858; Gaz. vol. 156; p. 839.
Tate, John L., Jersey City, N. J. Carbureter and controller for internal-combustion engines. No. 954,359; Apr. 5; Sp. p. 1407; Gaz. vol. 153; p. 234.
Tate, Susan C. (See Jahnke, Albert A., assignor.)
Tatham, Charles, New York, N. Y. Mailing-box. No. 945,349; Jan. 4; Sp. p. 753; Gaz. vol. 150; p. 115.
Tatro, Charles P., and G. Delius, Seattle, Wash. Protecting wood in salt-water. No. 948,355; Feb. 8; Sp. p. 1199; Gaz. vol. 151; p. 219.
Tatro, George J., Cleveland, Ohio. Grater. No. 963,661; July 5; Sp. p. 1392; Gaz. vol. 156; p. 217.
Tatum, Charles A., New York, N. Y., and W. H. Parker, Passaic, N. J., assignors to said Tatum. Match-machine. No. 948,027; Feb. 1; Sp. p. 514; Gaz. vol. 151; p. 83.
Tatum, Daniel, Baltimore, Md. Construction of car-roofs. No. 950,356; Feb. 22; Sp. p. 5444; Gaz. vol. 151; p. 954.
Tatum, Hamling, Elba, Ala. Plow. No. 951,349; Mar. 8; Sp. p. 1801; Gaz. vol. 152; p. 316.
Tatum, John H., Amarillo, Tex. Fruit-selling slot-machine. No. 955,718; Apr. 19; Sp. p. 4392; Gaz. vol. 153; p. 758.
Taub, Ludwig, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Ester from chaulmoogra-oil. No. 957,633; May 10; Sp. p. 2406; Gaz. vol. 154; p. 417.
Taub, Ludwig, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Amid of beta-beta-methylpropylpropionic acid. No. 961,385; June 14; Sp. p. 2355; Gaz. vol. 155; p. 416.
Taub, Ludwig, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Amid of β-β-diethylpropionic acid. No. 977,053; Nov. 29; Sp. p. 6573; Gaz. vol. 160; p. 1121.
Taubert, Albert, assignor to The Kny Scheerer Company, New York, N. Y. Caster for operating-tables. No. 950,545; Mar. 1; Sp. p. 171; Gaz. vol. 152; p. 29.
Taubert, William D., North Redwood, Minn. Door-catch. No 947,865; Feb. 1; Sp. p. 181; Gaz. vol. 151; p. 31.
Taulman, Francis L., Barnes, Kans. Can-carrier. No. 956,835; May 3; Sp. p. 729; Gaz. vol. 154; p. 115.
Taurman, Chastian, Cincinnati, Ohio. Electrically-operated agricultural implement. No. 971,574; Oct. 4; Sp. p. 136; Gaz. vol. 159; p. 25.
Tauss, Berthold. (See Heilmann and Tauss.)
Tauss, Heinrich. (See Schwarz and Tauss.)
Tauss, Jacob, Bayonne, N. J. Hat-fastener. No. 980,021; Dec. 27; Sp. p. 5611; Gaz. vol. 161; p. 970.

Alphabetical list of patentees—Continued.

Taussig, John H., Philadelphia, Pa. Vertical-retort gas apparatus. No. 951,856; Mar. 15; Sp. p. 2841; Gaz. vol. 152; p. 517.

Taussig, John H., assignor to The United Gas Improvement Company, Philadelphia, Pa. Gas apparatus. No. 969,502; Sept. 6; Sp. p. 746; Gaz. vol. 158; p. 117.

Taussig, John H., assignor to The United Gas Improvement Company, Philadelphia, Pa. Vertical-retort coal-gas apparatus. No. 969,996; Sept. 13; Sp. p. 1846; Gaz. vol. 158; p. 314.

Taussig, Joseph, Chicago, Ill. Illuminating device and reflector. No. 973,235; Oct. 18; Sp. p. 3820; Gaz. vol. 159; p. 653.

Taussig, Maurice, Chicago, Ill. Disappearing door. No. 972,412; Oct. 11; Sp. p. 1945; Gaz. vol. 159; p. 341.

Tava, Albano E., New York, N. Y. Coffee-roaster. No. 955,616; Apr. 19; Sp. p. 4152; Gaz. vol. 153; p. 723.

Tawney, Millard M. (See Dunkle and Tawney.)

Tawney, Millard M., Harrisburg, Pa. Frog-point. No. 979,048; Dec. 20; Sp. p. 3524; Gaz. vol. 161; p. 616.

Taxis, Franz von, Innsbruck, Austria-Hungary. Device for drawing on and drawing off galoshes, &c. No. 954,061; Apr. 5; Sp. p. 758; Gaz. vol. 153; p. 132.

Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotation device for fluid-pressure-operated-hammer tools. No. 951,465; Mar. 8; Sp. p. 2053; Gaz. vol. 152; p. 355.

Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 968,891; Aug. 30; Sp. p. 6516; Gaz. vol. 157; p. 1135.

Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 968,892; Aug. 30; Sp. p. 6520; Gaz. vol. 157; p. 1135.

Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 971,223; Sept. 27; Sp. p. 4445; Gaz. vol. 158; p. 779.

Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 975,905; Nov. 15; Sp. p. 4020; Gaz. vol. 160; p. 678.

Taylor, Arthur O., Brooklyn, N. Y. Stereotype-block. No. 959,271; May 24; Sp. p. 6184; Gaz. vol. 154; p. 1033.

Taylor, Arthur S., Nanuet, N. Y. Adjustable hand type-mold. No. 979,222; Dec. 20; Sp. p. 3935; Gaz. vol. 161; p. 679.

Taylor, Benjamin F., Palisades, Colo. Implement-handle. No. 978,510; Dec. 13; Sp. p. 2359; Gaz. vol. 161; p. 407.

Taylor, Calvin C. (See Frank and Taylor.)

Taylor, Carleton M. (See Hartford, Taylor, and Stone.)

Taylor, Charles E., Portland, Me. Former. No. 951,156; Mar. 8; Sp. p. 1403; Gaz. vol. 152; p. 255.

Taylor, Charles F. (See Amies, Joseph H., assignor.)

Taylor, Charles G., Hartford, Conn., assignor to A. P. Richardson, Andover, Mass. Quick-detaching whiffletree. No. 977,484; Dec. 6; Sp. p. 128; Gaz. vol. 161; p. 22.

Taylor, Churchill, *et al.*, trustees. (See Yost, Isabelle L., assignor.)

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Ingot-stripper. No. 963,960; July 12; Sp. p. 2071; Gaz. vol. 156; p. 338.

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Ladle-crane. No. 967,857; Aug. 16; Sp. p. 4273; Gaz. vol. 157; p. 731.

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Overhead traveling crane. No. 968,813; Aug. 30; Sp. p. 6357; Gaz. vol. 157; p. 1108.

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Overhead traveling crane. No. 968,814; Aug. 30; Sp. p. 6359; Gaz. vol. 157; p. 1109.

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Bridge for overhead traveling cranes. No. 970,572; Sept. 20; Sp. p. 3048; Gaz. vol. 158; p. 530.

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Automatic brake. No. 971,937; Oct. 4; Sp. p. 931; Gaz. vol. 159; p. 158.

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Ladle-crane. No. 974,205; Nov. 1; Sp. p. 233; Gaz. vol. 160; p. 38.

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Ladle-crane. No. 974,206; Nov. 1; Sp. p. 235; Gaz. vol. 160; p. 38.

Taylor & Company. (See Taylor, William O., assignor.)

Taylor, Daniel, Dunedin, New Zealand. Binding-file. No. 973,722; Oct. 25; Sp. p. 4850; Gaz. vol. 159; p. 844.

Taylor, David W., U. S. Navy. Screw-propeller. No. 978,677; Dec. 13; Sp. p. 2732; Gaz. vol. 161; p. 465.

Taylor, Dorothy, Colfax, Cal. Egg and cream beater. No. 970,969; Sept. 20; Sp. p. 3891; Gaz. vol. 158; p. 665.

Taylor, Edson S., Coldwater, Mich. Attachment for window-shades. No. 976,707; Nov. 22; Sp. p. 5764; Gaz. vol. 160; p. 976.

Taylor, Edward W., Salt Lake City, Utah. Nut-lock. No. 974,842; Nov. 8; Sp. p. 1719; Gaz. vol. 160; p. 288.

Taylor, Edwin, Edwardsville, Kans. Attachment for seed-planters. No. 973,824; Oct. 25; Sp. p. 5054; Gaz. vol. 159; p. 879.

Taylor Electric Truck Co. (See Taylor, John, assignor.)

Taylor, Eliza W., executrix. (See Taylor, James H.)

Taylor, Eugene H., Hyde Park, Mass., assignor, by mesne assignments, to Cushman Paper Box Machine Company. Box-making machine. No. 948,298; Feb. 1; Sp. p. 1075; Gaz. vol. 151; p. 174.

Taylor, Eugene H., Hyde Park, Mass., assignor, by mesne assignments, to Cushman Paper Box Machine Company. Machine for making paper boxes. No. 966,618; Aug. 9; Sp. p. 1676; Gaz. vol. 157; p. 287.

Taylor, Eugene H., Hyde Park, Mass., assignor, by mesne assignments, to Cushman Paper Box Machine Company. Gumming mechanism. No. 966,619; Aug. 9; Sp. p. 1686; Gaz. vol. 157; p. 287.

Taylor, Frank J., Phoenix, Ariz. Treating wood. No. 979,901; Dec. 27; Sp. p. 5381; Gaz. vol. 161; p. 930.

Taylor, Fulton, *et al.* (See Yost, Isabelle L., assignor.)

Taylor, George B. (See Voynow and Taylor.)

Taylor, George B., Philadelphia, Pa. Guard-rail structure. No. 947,316; Jan. 25; Sp. p. 5133; Gaz. vol. 150; p. 867.

Taylor, George B., Philadelphia, Pa. Guard-rail structure. No. 947,317; Jan. 25; Sp. p. 5137; Gaz. vol 150; p. 867.

Taylor, George B., and C. B. Voynow, Philadelphia, Pa. Railway. No. 968,289; Aug. 23; Sp. p. 5238; Gaz. vol. 157; p. 902.

Taylor, George P., Holyoke, Mass. Envelop-machine. No. 977,758; Dec. 6; Sp. p. 738; Gaz. vol. 161; p. 116.

Taylor, George R., San Francisco, Cal. Telephone-mouthpiece. No. 978,075; Dec. 6; Sp. p. 1404; Gaz. vol. 161; p. 226.

Taylor, George W. (See Harris, William A., assignor.)

Taylor, George W., Denver, Colo. Brickmaking-machine. No. 957,174; May 3; Sp. p. 1434; Gaz. vol. 154; p. 230.

Taylor, Harry, Vancouver, British Columbia, Canada. Metal-shear. No. 959,035; May 24; Sp. p. 5684; Gaz. vol. 154; p. 955.

Taylor, Harry M., assignor of one-half to H. H. Crow, Des Moines, Iowa. Cooking utensil. No. 951,409; Mar. 8; Sp. p. 1938; Gaz. vol. 152; p. 336.

Taylor, Henry E. P., Seymour, Conn., assignor to The Coe Brass Manufacturing Company. Wire-drawing machine. No. 974,723; Nov. 1; Sp. p. 1465; Gaz. vol. 160; p. 225.

Taylor, Herbert B., assignor of one-half to J. Taylor, Philadelphia, Pa. Automatic rib-knitting machine. No. 973,236; Oct. 18; Sp. p. 3822; Gaz. vol. 159; p. 653.

Taylor, Hollis E. (See Weaver and Taylor.)

Taylor, Horace H., San Jose, Cal. Gearing. No. 948,801; Feb. 8; Sp. p. 2174; Gaz. vol. 151; p. 369.

Taylor, Howard D. (See Kaucher, Richard W., assignor.)

Taylor, Howard D., Reading, Pa. Locomotive-engine. No. 948,066; Feb. 1; Sp. p. 605; Gaz. vol. 151; p. 97.

Taylor, Howard D., Reading, Pa. Locomotive-truck. No. 948,067; Feb. 1; Sp. p. 607; Gaz. vol. 151; p. 98.

Taylor Instrument Companies. (See Ely, James, assignor.)

Taylor Iron & Steel Company. (See Apgar, Marshall F., assignor.)

Taylor Iron and Steel Company. (See Howe, Henry M., assignor.)

Taylor, Isaac L., Goltry, Okla. Storm-curtain. No. 970,135; Sept. 13; Sp. p. 2120; Gaz. vol. 158; p. 361.

Taylor, Israel R., Asbury Park, N. J. Flashing. No. 952,549; Mar. 22; Sp. p. 4237; Gaz. vol. 152; p. 777.

Taylor, James. (See Enoch and Taylor.)

Taylor, James. (See Taylor, Herbert B., assignor.)

Taylor, James, St. Paul, Minn. Means for erecting concrete structures. No. 953,722; Apr. 5; Sp. p. 78; Gaz. vol. 153; p. 17.

Taylor, James, London, England. Attachment for bedsteads and the like. No. 975,906; Nov. 15; Sp. p. 4021; Gaz. vol. 160; p. 678.

Taylor, James D., Portland, Oreg. Truck. No. 966,620; Aug. 9; Sp. p. 1688; Gaz. vol. 157; p. 287.

Taylor, James F., *et al.* (See Ashford, Thomas B., assignor.)

Taylor, James H., Chicago, Ill. Welding-machine. No. 949,860; Feb. 22; Sp. p. 4378; Gaz. vol. 151; p. 784.

Taylor, James H., deceased, Brooklyn, N. Y.; E. W. Taylor, executrix. Elevator. No. 962,991; June 28; Sp. p. 5765; Gaz. vol. 155; p. 1009.

Taylor, James H., assignor of one-half to H. J. Carroll, Pawtucket, R. I. Machine for creasing and punching horseshoe-blanks. No. 967,082; Aug. 9; Sp. p. 2694; Gaz. vol. 157; p. 442.

Taylor, James H., assignor to American Spiral Pipe Works, Chicago, Ill. Spiral-pipe-forming machinery. No. 972,731; Oct. 11; Sp. p. 2655; Gaz. vol. 159; p. 451.

Taylor, James I., Rock Rapids, Iowa. Cement-block-molding apparatus. No. 961,659; June 14; Sp. p. 2927; Gaz. vol. 155; p. 507.

Taylor, James P., Longbeach, assignor to Cycle Support Company, Los Angeles, Cal. Bicycle-support. No. 969,920; Sept. 13; Sp. p. 1678; Gaz. vol. 158; p. 289.

Taylor, James W., Goldsboro, N. C. Truck. No. 977,759; Dec. 6; Sp. p. 756; Gaz. vol. 161; p. 117.

Taylor, John, administrator. (See Hysong, Charles H.)

Taylor, John, Liverpool, England. Vehicle and locomotive sanding apparatus. No. 956,651; May 3; Sp. p. 311; Gaz. vol. 154; p. 51.

Alphabetical list of patentees—Continued.

Taylor, John, Colonie, assignor to Taylor Electric Truck Co., Troy, N. Y. Motor-truck. No. 950,267; Feb. 22; Sp. p. 5283; Gaz. vol. 151; p. 926.
Taylor, John A., Greeley, Colo. Head-gate. No. 957,448; May 10; Sp. p. 2042; Gaz. vol. 154; p. 354.
Taylor, John B., Schenectady, N. Y., assignor to General Electric Company. Mercury-arc relay. No. 953,361; Mar. 29; Sp. p. 5998; Gaz. vol. 152; p. 1078.
Taylor, John B., Schenectady, N. Y., assignor to General Electric Company. Telephone system. No. 962,800; June 28; Sp. p. 5412; Gaz. vol. 155; p. 945.
Taylor, John D., Edgewood Park, assignor to The Union Switch and Signal Company, Swissvale, Pa. Electric signaling system. No. 964,710; July 19; Sp. p. 3760; Gaz. vol. 156; p. 625.
Taylor, John E. and T. G., St. Louis, Mo. Churn. No. 945,639; Jan. 4; Sp. p. 1355; Gaz. vol. 150; p. 211.
Taylor, John N., Durand, Ill. Draft-equalizer. No. 947,564; Jan. 25; Sp. p. 5717; Gaz. vol. 150; p. 949.
Taylor, John T., Belleville, Ill. Means for operating doors of hatches. No. 955,561; Apr. 19; Sp. p. 4014; Gaz. vol. 153; p. 703.
Taylor, John W. H., Pomona, Cal. Lock. No. 947,866; Feb. 1; Sp. p. 183; Gaz. vol. 151; p. 31.
Taylor, Joseph, Jr., Saco, Me. Gum-box. No. 967,265; Aug. 16; Sp. p. 3070; Gaz. vol. 157; p. 532.
Taylor, Lees. (See Battershell, Francis A., assignor.)
Taylor, Leon E., Chicago, Ill. Cornet-mouthpiece. No. 962,479; June 28; Sp. p. 4729; Gaz. vol. 155; p. 834.
Taylor, Leslie B., Bournbrook, near Birmingham, England. One-trigger mechanism for double-barrel breech-loading small-arms. No. 970,405; Sept. 13; Sp. p. 2671; Gaz. vol. 158; p. 451.
Taylor, Lyman B. (See Taylor and Bartlett, assignors.)
Taylor, Lyman B., Lynnfield, F. D. Bartlett, Somerville, and J. W. Bartlett, assignors to L. B. Taylor, Lynnfield, Mass. Exercising game apparatus. No. 949,385; Feb. 15; Sp. p. 3389; Gaz. vol. 151; p. 591.
Taylor, Marion, Soudan, Va. Gun-lock. No. 955,015; Apr. 12; Sp. p. 2877; Gaz. vol. 153; p. 488.
Taylor, Marshall, Pittsburg, Pa. Tally. No. 977,686; Dec. 6; Sp. p. 602; Gaz. vol. 161; p. 92.
Taylor, Montell, *et al.*, trustees. (See Yost, Isabelle L., assignor.)
Taylor, Osmer M., Albion, Pa. Brake. No. 968,893; Aug. 30; Sp. p. 6524; Gaz. vol. 157; p. 1136.
Taylor, Percy B., assignor to C. C. Currier, Newark, N. J. Garbage-press. No. 952,221; Mar. 15; Sp. p. 3551; Gaz. vol. 152; p. 638.
Taylor, Perry E., Schoharie, N. Y. Sight-assisting attachment for type-writers. No. 955,224; Apr. 19; Sp. p. 3302; Gaz. vol. 153; p. 590.
Taylor, Ralph G., assignor to Bettendorf Axle Company, Davenport, Iowa. Means for locking drop-doors of dump-cars. No. 955,225; Apr. 19; Sp. p. 3304; Gaz. vol. 153; p. 590.
Taylor, Raymond W., *et al.* (See Yost, Isabelle L., assignor.)
Taylor, Robert A. (See Stineman, William H. H., assignor.)
Taylor, Robert T., assignor of one-half to J. Niklis, Gastonville, Pa. Bottle closure and seal. No. 962,396; June 21; Sp. p. 4514; Gaz. vol. 155; p. 779.
Taylor, Sallie M., St. Louis, Mo. Catamenial garment. No. 972,288; Oct. 11; Sp. p. 1696; Gaz. vol. 159; p. 298.
Taylor, Samuel C., League City, Tex. Pruning-shears. No. 973,996; Oct. 25; Sp. p. 5422; Gaz. vol. 159; p. 940.
Taylor, Stiles & Company. (See Bonnett, John C., assignor.)
Taylor, Thomas G. (See Taylor, John E. and T. G.)
Taylor, Thomas H., assignor to The Charles Boldt Company, Cincinnati, Ohio. Machine for the manufacture of cellular boards. No. 978,234; Dec. 13; Sp. p. 1774; Gaz. vol. 161; p. 311.
Taylor, Timothy E., Putnam, and J. A. Thomas, Thompson, Conn. Heel-spring. No. 970,276; Sept. 13; Sp. p. 2430; Gaz. vol. 158; p. 410.
Taylor, Virgial P., assignor of one-half to W. M. Chambliss, Richton, Miss. Coupling for air-brake systems. No. 968,094; Aug. 23; Sp. p. 4803; Gaz. vol. 157; p. 835.
Taylor, Walter F., Brookline, Mass., assignor to Holtzer Cabot Electric Company. Electrical contact. No. 953,306; Mar. 29; Sp. p. 5859; Gaz. vol. 152; p. 1059.
Taylor, Walter F., Brookline, Mass., assignor to Holtzer-Cabot Electric Company. Telephone-receiver. No. 960,731; June 7; Sp. p. 998; Gaz. vol. 155; p. 167.
Taylor, Warren H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Night-lock. No. 962,992; June 28; Sp. p. 5767; Gaz. vol. 155; p. 1009.
Taylor, Warren H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Means for securing locks to doors. No. 967,858; Aug. 16; Sp. p. 4277; Gaz. vol. 157; p. 732.
Taylor, Wesley. (See Burke and Perkins, assignors.)
Taylor, William, Minot, N. D. Rotary motor. No. 949,605; Feb. 15; Sp. p. 3812; Gaz. vol. 151; p. 664.
Taylor, William C., Montclair, N. J. Fractional-spray plug. No. 968,095; Aug. 23; Sp. p. 4806; Gaz. vol. 157; p. 835.
Taylor, William E., St. Louis, Mo. Display-fixture. No. 956,445; Apr. 26; Sp. p. 5982; Gaz. vol. 153; p. 1038.

Taylor, William E., Eastport, Me., assignor to American Can Company, New York, N. Y. Roll-side key-opening can. No. 969,220; Sept. 6; Sp. p. 162; Gaz. vol. 158; p. 27.
Taylor, William G., Waterbury, Conn. Distributing device. No. 960,732; June 7; Sp. p. 999; Gaz. vol. 155; p. 167.
Taylor, William H. (See Loftin, William H., assignor.)
Taylor, William J., Walthamstow, England. Skirt-supporter and blouse-retainer. No. 953,932; Apr. 5; Sp. p. 493; Gaz. vol. 153; p. 90.
Taylor, William M., assignor to Carman Manufacturing Company, Tacoma, Wash. Extension couch or bed. No. 975,480; Nov. 15; Sp. p. 3123; Gaz. vol. 160; p. 534.
Taylor, William O., assignor to Taylor & Company, Limerick Square, Pa. Tack-weighing machine. No. 946,171; Jan. 11; Sp. p. 2559; Gaz. vol. 150; p. 426.
Taylor, William R. (See Burch and Taylor.)
Taylor, William R., Winnsboro, La. Baling-press. No. 964,823; July 19; Sp. p. 3988; Gaz. vol. 156; p. 664.
Tayntor, Charles E., New York, N. Y. Sash-fastener. No. 946,172; Jan. 11; Sp. p. 2568; Gaz. vol. 150; p. 426.
Tcherepanoff, Wladimir, Gatchina, Russia. Combined explosion and steam motor. No. 953,868; Apr. 5; Sp. p. 370; Gaz. vol. 153; p. 66.
Tea Tray Company of Newark, N. J., The. (See Magill, George C., assignor.)
Tea Tray Company of Newark, N. J., The. (See Marten, Albert S., assignor.)
Teachout, William R., Huntingdon, Tenn. Load-retaining attachment for freight-cars and the like. No. 969,002; Aug. 30; Sp. p. 6731; Gaz. vol. 157; p. 1172.
Teal, Albert, Dallas, Oreg. Cutter mechanism. No. 946,810; Jan. 18; Sp. p. 4031; Gaz. vol. 150; p. 669.
Teal, George W. (See MacDougal and Chambers, as signors.)
Teal, Morton D. (See Clark, Absolom F., assignor.)
Teas, William H., Ridgway, Pa. Leaching-vat. No. 951,206; Mar. 8; Sp. p. 1496; Gaz. vol. 152; p. 270.
Teasley, Charles B. (See Park, Ney P., assignor.)
Teate, Thomas A., Thomasville, Ga. Rotating light for railway-cars. No. 968,714; Aug. 30; Sp. p. 6160; Gaz. vol. 157; p. 1076.
Tebeau, Lewis B., Concord, N. H. Hand-shield. No. 975,734; Nov. 15; Sp. p. 3677; Gaz. vol. 160; p. 619.
Tebeau, Lewis B., Concord, N. H. Slipper and the like. No. 976,313; Nov. 22; Sp. p. 4940; Gaz. vol. 160; p. 842.
Tebyrica, Jose P. (See Tebyriçá, Mario W., assignor.)
Tebyriçá, Mario W., assignor of one-half to J. P. Tebyrica, São Paulo, Brazil. Surveying apparatus. No. 969,732; Sept. 6; Sp. p. 1235; Gaz. vol. 158; p. 199.
Tecklenburg, Woldemar von, Horn, near Bremen, Germany. Mechanism to lift the drags during the harrowing of the ground. No. 953,769; Apr. 5; Sp. p. 175; Gaz. vol. 153; p. 32.
Tedesco, Thomas G., Olyphant, Pa. Plug device. No. 961,555; June 14; Sp. p. 2720; Gaz. vol. 155; p. 472.
Teehan, John F., Brockton, Mass. Measuring-machine. No. 966,871; Aug. 9; Sp. p. 2250; Gaz. vol. 157; p. 370.
Teeter, Charles E. (See Coulstron and Teeter.)
Teeter, Charles N., Hagerstown, Ind. Splash lubrication system. No. 946,923; Jan. 18; Sp. p. 4311; Gaz. vol. 150; p. 707.
Teeter, David A., North Plainfield, N. J. Sash-lock. No. 946,570; Jan. 18; Sp. p. 3492; Gaz. vol. 150; p. 587.
Teeter, Robert I., Ellis, Minn. Hand-cultivator. No. 972,289; Oct. 11; Sp. p. 1696; Gaz. vol. 159; p. 298.
Teeter, William, Newett, Colo. Mouse and rat trap. No. 973,583; Oct. 25; Sp. p. 4552; Gaz. vol. 159; p. 794.
Teeter, William V., Grinnell, Kans. Straw-elevator. No. 973,892; Oct. 25; Sp. p. 5209; Gaz. vol. 159; p. 903.
Teetsell, Harry F., St. Paul, Minn. Automatic stacker and counter for box folding and gluing machines. No. 964,460; July 12; Sp. p. 3076; Gaz. vol. 156; p. 505.
Tegmeier, George H. (See Schuch and Tegmeier.)
Teich, Antone E. (See Handel and Teich.)
Teich, Ernest L. (See Arens and Teich.)
Teich, Ernest L., assignor to P. & F. Corbin, New Britain, Conn. Knob attachment. No. 950,735; Mar. 1; Sp. p. 592; Gaz. vol. 152; p. 93.
Teich, Ernest L., assignor to P. & F. Corbin, New Britain, Conn. Lock. No. 956,000; Apr. 26; Sp. p. 5003; Gaz. vol. 153; p. 885.
Telecheff, Michael, St. Petersburg, Russia. Gun. No. 959,648; May 31; Sp. p. 6964; Gaz. vol. 154; p. 1185.
Telechronometer Company. (See Babcock, Garrison, assignor.)
Telelectric Company, The. (See Powers, Timothy B., assignor.) (Reissue.)
Teller, Spencer J., Unadilla, N. Y., assignor to The Jeffrey Manufacturing Company. Mining-machine. No. 979,597; Dec. 27; Sp. p. 4714; Gaz. vol. 161; p. 828.
Tellier, Charles, Paris, France. Machinery for producing motive power. No. 947,867; Feb. 1; Sp. p. 184; Gaz. vol. 151; p. 32.
Tellier, Edmond. (See Gaudin and Tellier.)
Temple, Charles H. (See Swarts, Henry J., assignor.)
Temple, Edward, Sydney, New South Wales, Australia. Gas-purifying apparatus. No. 977,907; Dec. 6; Sp. p. 1056; Gaz. vol. 161; p. 168.

Temple, William J., Redlands, Cal. Collapsible berth for infants. No. 972,732; Oct. 11; Sp. p. 2666; Gaz. vol. 159; p. 452.
Temple, William S., assignor of one-half to T. Spillane, New Bethlehem, Pa. Apparatus for making wire-glass. No. 959,434; May 24; Sp. p. 6481; Gaz. vol. 154; p. 1086.
Templeton Manufacturing Company. (See Templeton, William R., assignor.)
Templeton, Walter B., Chicago, Ill. Jack. No. 961,909; June 21; Sp. p. 3468; Gaz. vol. 155; p. 614.
Templeton, Walter B., Chicago, Ill. Jack. No. 961,910; June 21; Sp. p. 3471; Gaz. vol. 155; p. 614.
Templeton, William G., Colorado Springs, Colo. Awning. No. 962,176; June 21; Sp. p. 4071; Gaz. vol. 155; p. 707.
Templeton, William G., Colorado Springs, Colo. Window-shade fixture. No. 962,270; June 21; Sp. p. 4263; Gaz. vol. 155; p. 737.
Templeton, William R., assignor to Templeton Manufacturing Company, Boston, Mass. Steam-trap. No. 952,482; Mar. 22; Sp. p. 4084; Gaz. vol. 152; p. 754.
Templin, Joseph H. (See Wiedemann and Templin.)
Templin, Joseph H., Philadelphia, Pa. Portable vacuum-pump. No. 956,784; May 3; Sp. p. 606; Gaz. vol. 154; p. 97.
Ten Broeck, Richard, St. Matthews, Ky. Wire-stretcher. No. 949,968; Feb. 22; Sp. p. 4606; Gaz. vol. 151; p. 822.
Ten Winkel, August, Denver, Colo. Concentrating-table. No. 967,859; Aug. 16; Sp. p. 4279; Gaz. vol. 157; p. 732.
Tener, Maia C., Sewickley, Pa. Manicure-buffer. No. 945,061; Jan. 4; Sp. p. 112; Gaz. vol. 150; p. 20.
Teneyck, Roy. (See Hennigar and Teneyck.)
Tengwall Company, The. (See Scherzinger, Lawrence F., assignor.)
Tennant, Palmer, Hagerstown, Md. Lamp-chimney. No. 956,609; May 3; Sp. p. 223; Gaz. vol. 154; p. 38.
Tennent, Edward S. (See Cobb and Fleming, assignors.)
Tennent, Margaret, Chicago, Ill. Desk attachment. No. 970,970; Sept. 20; Sp. p. 3892; Gaz. vol. 158; p. 665.
Tenney, Charles H. (See Carr, William A., assignor.)
Tenney, George, *et al.* (See Fongeallaz, Eugene, assignor.)
Tennison, George E., Cincinnati, Ohio. Self-lubricating car-axle bearing-box. No. 976,314; Nov. 22; Sp. p. 4941; Gaz. vol. 160; p. 842.
Teply, Thomas, Buhl, Minn. Switch-throwing apparatus. No. 945,251; Jan. 4; Sp. p. 514; Gaz. vol. 150; p. 84.
Teppert, Joseph, Buffalo, N. Y. Folding top for vehicles. No. 968,894; Aug. 30; Sp. p. 6526; Gaz. vol. 157; p. 1136.
Tercy, John R., Kanopolis, Kans. Game apparatus. No. 977,485; Dec. 6; Sp. p. 129; Gaz. vol. 161; p. 22.
Terhune, Josephine E., La Center, Wash. Washboard-clamp. No. 948,907; Feb. 8; Sp. p. 2376; Gaz. vol. 151; p. 404.
Terhune, Rufus W. (See Wheeling, Landa A., assignor.)
Terrell, Joseph E., Texola, Okla. Latch. No. 965,125; July 19; Sp. p. 4586; Gaz. vol. 156; p. 765.
Terriff, William W., Portland, Mich. Leg-lifting caster device for tubs, &c. No. 970,860; Sept. 20; Sp. p. 3696; Gaz. vol. 158; p. 631.
Terrill, Amos B., and M. Canning, Denver, Colo. Beef-jack. No. 975,806; Nov. 15; Sp. p. 3824; Gaz. vol. 160; p. 644.
Terry, Frank T., *et al.* (See Gullickson, Charles M., assignor.)
Terry, George O., Good Thunder, Minn. Mouse-trap. No. 948,908; Feb. 8; Sp. p. 2377; Gaz. vol. 151; p. 404.
Terry, George O., Good Thunder, Minn. Flue-stopper. No. 956,610; May 3; Sp. p. 224; Gaz. vol. 154; p. 38.
Terry, William, Louisville, Ky. Cattle-guard-operating mechanism. No. 967,999; Aug. 23; Sp. p. 4581; Gaz. vol. 157; p. 803.
Terry, William L., Jr., Little Rock, Ark. Starting mechanism. No. 957,813; May 10; Sp. p. 2780; Gaz. vol. 154; p. 477.
Terwilliger, Fred G., Siegfried, Pa. Whistle and cut-out. No. 976,008; Nov. 15; Sp. p. 4214; Gaz. vol. 160; p. 714.
Tesseyman, John E. (See Irwin and Tesseyman.)
Tesseyman, John E., and F. L. Irwin, assignors to The Ralston Steel Car Company, Columbus, Ohio. Dump-car. No. 976,411; Nov. 22; Sp. p. 5162; Gaz. vol. 160; p. 877.
Teste, Etienne, Paris, France. Horn. No. 970,136; Sept. 13; Sp. p. 2121; Gaz. vol. 158; p. 361.
Teste, Etienne, Paris, France. Automatic trembler particularly applicable to warning apparatus. No. 977,238; Nov. 29; Sp. p. 6982; Gaz. vol. 160; p. 1187.
Tetherow, Ivan C., St. Joseph, Mo. Cigar-moistener. No. 949,606; Feb. 15; Sp. p. 3815; Gaz. vol. 151; p. 664.
Tetreault, William J., Putnam, Conn. Can-cover fastener. No. 946,586; Jan. 18; Sp. p. 3523; Gaz. vol. 150; p. 593.
Teuer, William H., Carterville, Mo. Pipe-coupling. No. 951,889; Mar. 15; Sp. p. 2918; Gaz. vol. 152; p. 528.
Teufel, Wilhelm J., Stuttgart, Germany. Compressive hose. No. 967,585; Aug. 16; Sp. p. 3734; Gaz. vol. 157; p. 642.
Teuscher, Louis T. (See Pearce and Teuscher.)
Teute, Ferdinand, Rochester, N. Y. Mount for entomological specimens. No. 970,665; Sept. 20; Sp. p. 3262; Gaz. vol. 158; p. 562.
Tevander, Olof N., and A. Manierre, Chicago, Ill. Sealing bottles. No. 947,502; Jan. 25; Sp. p. 5594; Gaz. vol. 150; p. 929.
Teves, Frederick E., Glen Cove, N. Y. Cover. No. 964,334; July 12; Sp. p. 2831; Gaz. vol. 156; p. 467.
Textile Machine Works. (See Dingendahl, Gustav, assignor.)
Textile Machine Works. (See Janssen and Rahm, assignors.)
Textile Machine Works. (See Rahm, Robert C., assignor.)
Textile Specialty Company. (See Van Gorder, Greenleaf S., assignor.)
Thackrah, George, Salt Lake City, Utah. Index. No. 965,666; July 26; Sp. p. 5771; Gaz. vol. 156; p. 982.
Thaden, Herman, Atlanta, Ga. Airship. No. 976,709; Nov. 22; Sp. p. 5767; Gaz. vol. 160; p. 977.
Thain, Eugene N., Franklin, Mass. Trunk-protector. No. 954,360; Apr. 5; Sp. p. 1410; Gaz. vol. 153; p. 234.
Thalimer, Clarence M., Mount Vernon, N. Y. Tag-fastener. No. 947,286; Jan. 25; Sp. p. 5059; Gaz. vol. 150; p. 855.
Thamsen, William J. (See Harrold and Thamsen.)
Tharraldson, Knute, Bloomingdale, Cal. Rein-holder. No. 960,436; June 7; Sp. p. 395; Gaz. vol. 155; p. 66.
Thatcher, William C., assignor to K. T. Eaton, Chattanooga, Tenn. Combination garment-hanger. No. 959,180; May 24; Sp. p. 6001; Gaz. vol. 154; p. 1003.
Thatcher, William C., assignor to K. T. Eaton, Chattanooga, Tenn. Trousers-hanger. No. 959,181; May 24; Sp. p. 6003; Gaz. vol. 154; p. 1003.
Thatford, Joseph G., Sharon Hill, Pa. Trowel. No. 960,210; May 31; Sp. p. 8186; Gaz. vol. 154; p. 1378.
Thaubald, John, Elkins, W. Va. Refrigerator. No. 963,485; July 5; Sp. p. 1043; Gaz. vol. 156; p. 158.
Thayer, Dexter J., Pittsburg, Pa. Milk-can lock. No. 962,801; June 28; Sp. p. 5414; Gaz. vol. 155; p. 945.
Thayer, Elmer E., Stege, Cal. Bench-vise. No. 969,003; Aug. 30; Sp. p. 6733; Gaz. vol. 157; p. 1173.
Thayer, Joseph E., East Bridgewater, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shuttle tension device. No. 974,309; Nov. 1; Sp. p. 521; Gaz. vol. 160; p. 77.
Thayer, Paul C., Oroville, Cal. Knockdown box. No. 972,038; Oct. 4; Sp. p. 1159; Gaz. vol. 159; p. 195.
Thebaud, J. Edward. (See Kinsey, Fredrick L., assignor.)
Thebaud, John E., assignor of one-half to H. C. Nash, Buffalo, N. Y. Lubricant-retainer. No. 958,193; May 17; Sp. p. 3799; Gaz. vol. 154; p. 642.
Thefeld, William J., Kansas City, Kans. Folding stool. No. 972,290; Oct. 11; Sp. p. 1698; Gaz. vol. 159; p. 298.
Theilsiefje, Adolph W., Ridgefield, Wash. Passenger device for equalizing ship motion. No. 961,911; June 21; Sp. p. 3473; Gaz. vol. 155; p. 615.
Theis, Leroy W. (See Fairweather and Theis.)
Theis, William J. (See Grebel and Theis.)
Theisen, Bruno H., and G. S. Keller, Minneapolis, Minn. Stitch-forming mechanism. No. 963,486; July 5; Sp. p. 1044; Gaz. vol. 156; p. 159.
Thelen, Paul, San Francisco, and J. B. Speed, Berkeley, Cal.; said Speed assignor to said Thelen. Apparatus for evaporating liquids. No. 945,640; Jan. 4; Sp. p. 1357; Gaz. vol. 150; p. 211.
Theo. A. Kochs Co. (See Pfanschmidt and Schwarzkopf, assignors.)
Theo. A. Koch's Company. (See Fischer and Zimmerman, assignors.)
Theo. A. Kochs Company. (See Pfanschmidt, Charles, assignor.)
Theo. A. Kochs Company. (See Ross, Herold H., assignor.)
Theo. Smith Manufacturing Company. (See Smith, Theodore, assignor.)
Theobald, Frank A. (See Sweinhagen and Theobald.)
Theringer, Charles. (See Lomberk and Theringer.)
Therrien, Samuel, Duluth, Minn. Measuring device. No. 955,719; Apr. 19; Sp. p. 4394; Gaz. vol. 153; p. 758.
Thibault, Eugene E. (See Simon and Thibault.)
Thibeault, Dello, assignor of one-half to H. A. Everest, Campello, Mass. Picker mechanism for looms. No. 976,009; Nov. 15; Sp. p. 4216; Gaz. vol. 160; p. 714.
Thibodeau, Peter, Willimansett, assignor of one-third to F. A. Rivers, Holyoke, and one-third to D. H. Young, Willimansett, Mass. Pipe-jack. No. 968,096; Aug. 23; Sp. p. 4808; Gaz. vol. 157; p. 835.
Thiel, Frank N., Syracuse, assignor to R. E. Dietz Company, New York, N. Y. Lantern. No. 972,413; Oct. 11; Sp. p. 1947; Gaz. vol. 159; p. 341.
Thiel, Martin A., Wilkinsburg, Pa., assignor to The Westinghouse Machine Company. Manufacturing turbine-blade strips. No. 953,563; Mar. 29; Sp. p. 6424; Gaz. vol. 152; p. 1149.
Thiel, Martin A., Wilkinsburg, Pa., assignor to The Westinghouse Machine Company. Machine for grinding cams. No. 957,392; May 10; Sp. p. 1927; Gaz. vol. 154; p. 335.
Thiele, Albert H., Silverlake, Wis. Weighing mechanism for grocers' bins. No. 968,610; Aug. 30; Sp. p. 5902; Gaz. vol. 157; p. 1040.
Thiem, Louis, Toledo, Ohio. Automatic cistern-cleaner. No. 969,997; Sept. 13; Sp. p. 1849; Gaz. vol. 158; p. 314.
Thieme, Ludwig, and M. Gläser, Adorf, Germany. Apparatus for cleansing medical spittoons. No. 962,931; June 28; Sp. p. 5651; Gaz. vol. 155; p. 989.
Thieme, Otto, St. Louis, Mo. Terminal connection. No. 974,449; Nov. 1; Sp. p. 857; Gaz. vol. 160; p. 126.

Alphabetical list of patentees—Continued.

Thieroff, Edwin H. E., Defiance, Ohio. Fence-post. No. 972,733; Oct. 11; Sp. p. 2667; Gaz. vol. 159; p. 452.
Thies, James W., Haynes, N. D. Washboard. No. 964,335; July 12; Sp. p. 2332; Gaz. vol. 156; p. 467.
Thiesen, Bruno H., and G. S. Keller, Minneapolis, Minn. Presser-foot mechanism for stitching-machines. No. 973,237; Oct. 18; Sp. p. 3824; Gaz. vol. 159; p. 654.
Thiess, Karl. (See Schmidt and Thiess.)
Thimm, Alexius W., Seattle, Wash. Game apparatus. No. 979,598; Dec. 27; Sp. p. 4717; Gaz. vol. 161; p. 828.
Thiry, Jules, St. Servais, Belgium. Friction-coupling with expanding locking member. No. 970,573; Sept. 20; Sp. p. 3050; Gaz. vol. 158; p. 531.
Thiry, Oden F. (See Bremer, Thiry, and Hollands.)
Thissell Company. (See Sawyer, Orren A., assignor.)
Thoellden, Anton E. H. J., New Haven, Conn. Driving mechanism. No. 979,223; Dec. 20; Sp. p. 3937; Gaz. vol. 161; p. 679.
Thoeni, Herman, Spokane, Wash. Weed-destroyer. No. 970,666; Sept. 20; Sp. p. 3263; Gaz. vol. 158; p. 563.
Thoits, Alvin T., and J. G. Gronberg, assignors to Caloric Fireless Cookstove Company, Grand Rapids, Mich. Fireless baker. (Reissue.) No. 13,110; May 3; Sp. p. 1443; Gaz. vol. 154; p. 232.
Thom, Peter R., Appleton, assignor of one-half to Kimberly-Clark Company, Neenah, Wis. Paper-machine. No. 971,645; Oct. 4; Sp. p. 282; Gaz. vol. 159; p. 50.
Thom, Thomas M., Cheshunt, assignor to The Lithographic Stone and Marble Company Limited, London, England. Artificial stone. No. 963,337; July 5; Sp. p. 748; Gaz. vol. 156; p. 109.
Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Shoe-bottom filler. No. 945,294; Jan. 4; Sp. p. 626; Gaz. vol. 150; p. 98.
Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Shoe-filler apparatus. No. 957,393; May 10; Sp. p. 1928; Gaz. vol. 154; p. 335.
Thoma, Andrew, Cambridge, Mass., assignor to Thoma Corporation, Portland, Me. Plastic sheet composition. No. 957,394; May 10; Sp. p. 1931; Gaz. vol. 154; p. 336.
Thoma, Charles, Jr., and W., Carlstadt, N. J. Sound reproducer or recorder. No. 949,991; Feb. 22; Sp. p. 4700; Gaz. vol. 151; p. 831.
Thoma Corporation. (See Thoma, Andrew, assignor.)
Thoma, Edwin T. (See Wood and Thoma.)
Thoma, Henry F., Sand Coulee, Mont. Automatic control for pressure apparatus. No. 963,662; July 5; Sp. p. 1393; Gaz. vol. 156; p. 217.
Thoma, Henry F., Jr., *et al.* (See Thoma and McGrew, assignors.)
Thoma, Henry F., Jr., and C. E. McGrew, assignors of one-half to H. F. Thoma, one-fourth to H. F. Thoma, Jr., and one-fourth to C. E. McGrew, Chicago, Ill. Portable telephone transmitter and receiver or testing instrument. No. 946,410; Jan. 11; Sp. p. 3165; Gaz. vol. 150; p. 509.
Thoma, Walter. (See Thoma, Charles, Jr., and W.)
Thomas, Addison C. (See Hamilton, Cassius M., assignor.)
Thomas, Arvine N., Canton, Ohio. Hinge. No. 946,587; Jan. 18; Sp. p. 3524; Gaz. vol. 150; p. 594.
Thomas, Auguste. (See Korselt and Thomas.)
Thomas, Augustus O., Kearney, Nebr. Molding artificial-stone building-blocks. No. 958,194; May 17; Sp. p. 3800; Gaz. vol. 154; p. 642.
Thomas B. Jeffery & Company. (See Symmonds, Robert, assignor.)
Thomas & Betts Company. (See McMurtrie, Adnah, assignor.)
Thomas, Carl C., Madison, Wis. Method of and apparatus for determining rate of flow of steam and other gases and vapors. No. 946,886; Jan. 18; Sp. p. 4225; Gaz. vol. 150; p. 695.
Thomas, Charles A., *et al.* (See Perew and Dischinger, assignors.)
Thomas, Charles H., assignor to The Corbin Cabinet Lock Company, New Britain, Conn. Pin-tumbler lock. No. 946,710; Jan. 18; Sp. p. 3787; Gaz. vol. 150; p. 633.
Thomas, Charles L., Buffalo, N. Y. Auxiliary spring. No. 947,167; Jan. 18; Sp. p. 4761; Gaz. vol. 150; p. 785.
Thomas, Charles L., Canisteo, N. Y. Auxiliary spring for automobiles. No. 966,621; Aug. 9; Sp. p. 1689; Gaz. vol. 157; p. 288.
Thomas, Charles W., Edgewater, assignor of one-half to C. Smith, Belleville, N. J. Centrifugal pulp-screen. No. 975,178; Nov. 8; Sp. p. 2497; Gaz. vol. 160; p. 404.
Thomas, D. C. (See Hopwood, John M., assignor.)
Thomas, D. D. (See Stone, Richard W., assignor.)
Thomas, Edward, Worcester, Mass. Cement and concrete work. No. 958,336; May 17; Sp. p. 4244; Gaz. vol. 154; p. 692.
Thomas, Edward E., Frosa, Tex. Cotton-chopper. No. 954,149; Apr. 5; Sp. p. 951; Gaz. vol. 153; p. 163.
Thomas, Edward G. (See Cowley and Thomas.)
Thomas, Edward G., Brookline, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus. No. 958,044; May 17; Sp. p. 3452; Gaz. vol. 154; p. 590.
Thomas, Edward J., Elphinstone, Manitoba, Canada. Cattle-guard. No. 956,745; May 3; Sp. p. 523; Gaz. vol. 154; p. 85.
Thomas, Edward L., Valdosta, Ga. Furnace grate-bar. No. 949,639; Feb. 15; Sp. p. 3879; Gaz. vol. 151; p. 676.
Thomas, Edwin E., Portland, Oreg. Wheel. No. 969,673; Sept. 6; Sp. p. 1103; Gaz. vol. 158; p. 178.
Thomas, Edwin L., assignor to E. R. Thomas Motor Company, Buffalo, N. Y. Filler for automobile-radiators. No. 957,814; May 10; Sp. p. 2782; Gaz. vol. 154; p. 477.
Thomas, Elmer A., Red Cloud, Nebr. Child's seat for carriages and vehicles. No. 946,520; Jan 11; Sp. p. 3411; Gaz. vol. 150; p. 546.
Thomas, Elmer A., and W. V. Ritter, St. Louis, Mo. Rotary explosive-engine. No. 962,064; June 21; Sp. p. 3807; Gaz. vol. 155; p. 667.
Thomas, Emmett N. (See Megget, William M., assignor.)
Thomas, Ernest K., Corinth, N. Y. Bolt. No. 966,780; Aug. 9; Sp. p. 2058; Gaz. vol. 157; p. 342.
Thomas F. McGann & Sons Company, The. (See McGann, Thomas F., assignor.)
Thomas, Frank D., New York, N. Y. Stage effect. No. 971,418; Sept. 27; Sp. p. 4805; Gaz. vol. 158; p. 841.
Thomas, Frank M., Muncie, Ind. Tree-sprayer. No. 967,266; Aug. 16; Sp. p. 3071; Gaz. vol. 157; p. 532.
Thomas, Frank W., Williamsport, Pa. Spout-hanger. No. 972,291; Oct. 11; Sp. p. 1698; Gaz. vol. 159; p. 299.
Thomas, Frederick, London, England. Belt-stretcher. No. 979,599; Dec. 27; Sp. p. 4718; Gaz. vol. 161; p. 828.
Thomas Gas Light and Power Company, The. (See Thomas, Robert, assignor.)
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electrical plug-receptacle. No. 952,961; Mar. 22; Sp. p. 5112; Gaz. vol. 152; p. 918.
Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Push-button switch. No. 960,124; May 31; Sp. p. 8022; Gaz. vol. 154; p. 1347.
Thomas, George B., assignor to The Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Rotary snap-switch. No. 966,368; Aug. 2; Sp. p. 1088; Gaz. vol. 157; p. 175.
Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 971,419; Sept. 27; Sp. p. 4807; Gaz. vol. 158; p. 841.
Thomas, George H., Great Bookham, England. Apparatus for displaying advertisements. No. 951,494; Mar. 8; Sp. p. 2108; Gaz. vol. 152; p. 364.
Thomas, George H., assignor to Thomas Resilient Wheel Company, Elmira, N. Y. Vehicle-wheel. No. 972,734; Oct. 11; Sp. p. 2669; Gaz. vol. 159; p. 453.
Thomas, George J., Watertown, assignor to C. E. Chester, Boston, Mass. Chuck. No. 958,980; May 24; Sp. p. 5579; Gaz. vol. 154; p. 937.
Thomas, Gertrude W., Baltimore, Md. Chin-mask. No. 955,562; Apr. 19; Sp. p. 4016; Gaz. vol. 153; p. 704.
Thomas, Griffith, *et al.* (See Stragiotti, Pietro, assignor.)
Thomas, Henry F., Natrona, Pa. Foldable table and attachment therefor. No. 948,191; Feb. 1; Sp. p. 839; Gaz. vol. 151; p. 138.
Thomas, Henry T., New York, N. Y. Glazed roof structure. No. 979,600; Dec. 27; Sp. p. 4721; Gaz. vol. 161; p. 828.
Thomas Holton's Sons. (See Morrow, Thomas M., assignor.)
Thomas, Howard W., Charleroi, assignor of one-fourth to J. E. Mansfield, Monessen, and one-fourth to R. V. Lindsay, Charleroi, Pa. Train-pipe coupling. No. 949,046; Feb. 15; Sp. p. 2678; Gaz. vol. 151; p. 477.
Thomas, Howard W., Charleroi, assignor of one-third to W. H. Gasway and one-third to J. E. Mansfield, Monessen, Pa. Stone gathering and loading machine. No. 966,964; Aug. 9; Sp. p. 2436; Gaz. vol. 157; p. 401.
Thomas, Jacob. (See Stewart, Joseph H., assignor.)
Thomas, James N. (See Thomas, Nicholas and J. N.)
Thomas, John, New York, N. Y. Lever-check for electric controllers. No. 985,564; May 17; Sp. p. 4684; Gaz. vol. 154; p. 769.
Thomas, John A. (See Taylor and Thomas.)
Thomas, John G. P., Holywell, England. Power transmission. No. 948,436; Feb. 8; Sp. p. 1377; Gaz. vol. 151; p. 246.
Thomas, John G. P., Chiswick, England. Electrical power transmission. No. 968,290; Aug. 23; Sp. p. 5243; Gaz. vol. 157; p. 902.
Thomas, John H., assignor of one-third to G. M. Hoover, Thomasville, N. C. Cork-extractor. No. 946,740; Jan. 18; Sp. p. 3857; Gaz. vol. 150; p. 644.
Thomas, John O., assignor of one-half to S. Thomas, Ogden, Utah. Combination square and bevel. No. 973,584; Oct. 25; Sp. p. 4553; Gaz. vol. 159; p. 794.
Thomas, John P., Chicago, Ill. Dust-guard for car-journals. No. 962,480; June 28; Sp. p. 4731; Gaz. vol. 155; p. 834.
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Abrading-cylinder. No. 949,249; Feb. 15; Sp. p. 3069; Gaz. vol. 151; p. 543.
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Hollow-chisel mortising-machine. No. 965,962; Aug. 2; Sp. p. 237; Gaz. vol. 157; p. 40.

Thomas, John R., and P. A. Solem, assignors to J. A. Fay & Egan Company, Cincinnati, Ohio. Dovetailing-machine. No. 946,811; Jan. 18; Sp. p. 4033; Gaz. vol. 150; p. 669.
Thomas, John W. (See Oakes, George W., assignor.)
Thomas, John W., Allentown, Pa. Hydraulic air-exhaust mechanism. No. 972,039; Oct. 4; Sp. p. 1161; Gaz. vol. 159; p. 195.
Thomas, Joseph F., *et al.* (See Buchanan, John H., assignor.)
Thomas, Joseph L., Chicago, Ill. Wedge. No. 961,325; June 14; Sp. p. 2246; Gaz. vol. 155; p. 396.
Thomas Maddock's Sons Co. (See Kelly, John F., assignor.)
Thomas Maddock's Sons Company. (See Lewis, Samuel W., assignor.)
Thomas Manufacturing Company, The. (See Pelton, Charles H., assignor.)
Thomas, Mary L., Lincoln, Nebr. Curtain-fastener clamp. No. 956,446; Apr. 26; Sp. p. 5983; Gaz. vol. 153; p. 1039.
Thomas Mfg. Co., The. (See Bover, John B., assignor.)
Thomas, Millward T., Warren, Pa. Shaft-coupling. No. 972,292; Oct. 11; Sp. p. 1700; Gaz. vol. 159; p. 299.
Thomas, Nancy A., Meyers Falls, Wash. Food-chopper. No. 978,790; Dec. 13; Sp. p. 2961; Gaz. vol. 161; p. 501.
Thomas Nelson & Sons. (See Baldauf, Charles L., assignor.)
Thomas, Nicholas and J. N., Burlington, Wis. Wire or band tightening implement. No. 954,226; Apr. 5; Sp. p. 1140; Gaz. vol. 153; p. 189.
Thomas, Otis B. (See Porter and Thomas.)
Thomas P. Taylor Co., The. (See Jameson, George P., assignor.)
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Electrode for vapor electric apparatus. No. 946,079; Jan. 11; Sp. p. 2366; Gaz. vol. 150; p. 393.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Protecting device for vapor-converters. No. 946,812; Jan. 18; Sp. p. 4039; Gaz. vol. 150; p. 670.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Starting device for adjustable vapor apparatus. No. 950,709; Mar. 1; Sp. p. 544; Gaz. vol. 152; p. 85.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Starting device for vapor apparatus. No. 958,445; May 17; Sp. p. 4461; Gaz. vol. 154; p. 729.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Means for maintaining vapor-converters in operation. No. 964,336; July 12; Sp. p. 2833; Gaz. vol. 156; p. 467.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Lightning-arrester. No. 946,080; Jan. 11; Sp. p. 2367; Gaz. vol. 150; p. 393.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Vapor-electric-lamp circuit. No. 949,335; Feb. 15; Sp. p. 3259; Gaz. vol. 151; p. 573.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Controlling device for vapor apparatus. No. 958,195; May 17; Sp. p. 3801; Gaz. vol. 154; p. 642.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Device for steadying rectified currents. No. 968,895; Aug. 30; Sp. p. 6528; Gaz. vol. 157; p. 1136.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. System and method of electrical distribution. No. 968,896; Aug. 30; Sp. p. 6530; Gaz. vol. 157; p. 1137.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company. System of lighting and distribution by vapor-lamps. No. 968,897; Aug. 30; Sp. p. 6531; Gaz. vol. 157; p. 1137.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company. System of lighting and distribution by vapor-lamps. No. 969,004; Aug. 30; Sp. p. 6735; Gaz. vol. 157; p. 1173.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Operating vapor electric devices. No. 973,997; Oct. 25; Sp. p. 5423; Gaz. vol. 159; p. 940.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Lightning-arrester. No. 978,959; Dec. 20; Sp. p. 3327; Gaz. vol. 161; p. 586.
Thomas, Percy H., Pittsburg, Pa., assignor to Cooper Hewitt Electric Company. Single-phase gas or vapor electric device. No. 951,085; Mar. 1; Sp. p. 1255; Gaz. vol. 152; p. 207.
Thomas, Percy H., Pittsburg, Pa., assignor to Cooper Hewitt Electric Company, New York, N. Y. Circuit-breaker. No. 952,153; Mar. 15; Sp. p. 3421; Gaz. vol. 152; p. 615.
Thomas, Percy H., Pittsburg, Pa., assignor to Cooper Hewitt Electric Company. Three-wire system of electrical distribution. No. 979,396; Dec. 20; Sp. p. 4265; Gaz. vol. 161; p. 734.
Thomas R. Beggs Faucet and Valve Company, The. (See Beggs, Thomas R., assignor.)
Thomas Resilient Wheel Company. (See Thomas, George H., assignor.)
Thomas, Robert, San Francisco, Cal., assignor to The Thomas Gas Light and Power Company, Tacoma, Wash. Manufacture of gas from garbage. No. 969,733; Sept. 6; Sp. p. 1238; Gaz. vol. 158; p. 199.
Thomas, Samuel. (See Thomas, John O., assignor.)
Thomas, Samuel, Randall, Minn. Garden implement. No. 974,539; Nov. 1; Sp. p. 1077; Gaz. vol. 160; p. 161.
Thomas & Smith. (See Durdin, Augustus C., Jr., assignor.)
Thomas, Stephen S., Gulfport, Miss. Cotton-picking machine. No. 948,619; Feb. 8; Sp. p. 1779; Gaz. vol. 151; p. 306.
Thomas, Thomas E., Niles, Ohio. Hot-blast stove. No. 953,564; Mar. 29; Sp. p. 6425; Gaz. vol. 152; p. 1150.
Thomas, Walter, Vancouver, British Columbia, Canada. Gas-producer. No. 966,718; Aug. 9; Sp. p. 1897; Gaz. vol. 157; p. 320.
Thomas, Walter, Vancouver, British Columbia, Canada. Gas-heating attachment for pipes of heating systems. No. 971,938; Oct. 4; Sp. p. 933; Gaz. vol. 159; p. 158.
Thomas, Walter, Vancouver, British Columbia, Canada. Safe. No. 973,825; Oct. 25; Sp. p. 5056; Gaz. vol. 159; p. 879.
Thomas, William, *et al.* (See Rees, Morgan, assignor.)
Thomas, William C. (See Hewitt and Thomas.)
Thomas, William F., Chanute, Kans. Can-filler. No. 956,652; May 3; Sp. p. 313; Gaz. vol. 154; p. 51.
Thomas, William H. (See Kaufmann and Thomas.)
Thomas, William H. (See Stuart, Orlon K., assignor.)
Thomas, William H., Whittier, Cal. Door-lock. No. 946,523; Jan. 11; Sp. p. 3415; Gaz. vol. 150; p. 547.
Thomas, William H., assignor to The Direct Separator Company, Syracuse, N. Y. Steam-exhaust head. No. 964,584; July 19; Sp. p. 3407; Gaz. vol. 156; p. 582.
Thomas, William H., and C. H. Rodgers, Algoma, Miss. Wheel-scraper. No. 970,277; Sept. 13; Sp. p. 2431; Gaz. vol. 158; p. 410.
Thomas, William R., Pickens, W. Va. Concrete head-stone. No. 955,720; Apr. 19; Sp. p. 4397; Gaz. vol. 153; p. 758.
Thomas, Willie O., assignor to Owen Thomas Motor Car Company, Janesville, Wis. Muffler. No. 956,785; May 3; Sp. p. 608; Gaz. vol. 154; p. 97.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 957,125; May 3; Sp. p. 1332; Gaz. vol. 154; p. 213.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. New vat dye. No. 961,387; June 14; Sp. p. 2357; Gaz. vol. 155; p. 416.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 961,388; June 14; Sp. p. 2357; Gaz. vol. 155; p. 417.
Thomaschewski, Paul, H. Raeder, Vohwinkel, W. Mieg and P. Fischer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Anthracene vat dye. No. 970,278; Sept. 13; Sp. p. 2433; Gaz. vol. 158; p. 410.
Thomaschewski, Paul, H. Raeder, Vohwinkel, W. Mieg and P. Fischer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Bluish-gray vat dye. No. 971,224; Sept. 27; Sp. p. 4446; Gaz. vol 158; p. 779.
Thomaschewski, Paul, H. Raeder, Vohwinkel, W. Mieg and P. Fischer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown vat die. No. 971,225; Sept. 27; Sp. p. 4447; Gaz. vol. 158; p. 779.
Thomasen, Olaus, New York, N. Y. Window-blind holder. No. 959,403; May 24; Sp. p. 6432; Gaz. vol. 154; p. 1076.
Thomason, Elmer O. (See Kellar and Thomason.)
Thomes, Frank E., Portland, Me. Hose-coupling. No. 947,501; Jan. 25; Sp. p. 5593; Gaz. vol. 150; p. 929.
Thomes, Frank E., Portland, Me. Hand-truck. No. 970,137; Sept. 13; Sp. p. 2123; Gaz. vol. 158; p. 361.
Thompson, Albert W., Manchester, N. H. Humidifying apparatus for dwelling-houses. No. 963,829; July 12; Sp. p. 1807; Gaz. vol. 156; p. 297.
Thompson, Albert W., assignor of one-fourth to H. E. Blanchard, Manchester, N. H. Burner for fuel-oils. No. 965,963; Aug. 2; Sp. p. 242; Gaz. vol. 157; p. 40.
Thompson, Alfred, Erie, Pa., assignor of one-half to N. A. Johnson, Jamestown, N. Y. Polishing-machine. No. 975,088; Nov. 8; Sp. p. 2283; Gaz. vol. 160; p. 373.
Thompson, Alfred, Erie, Pa., assignor to The Erie Wheel Company, Cleveland, Ohio. Making wheels. No. 980,022; Dec. 27; Sp. p. 5612; Gaz. vol. 161; p. 970.
Thompson, Alfred, Erie, Pa., assignor to The Erie Wheel Company, Cleveland, Ohio. Pressed-metal wheel. No. 980,023; Dec. 27; Sp. p. 5614; Gaz. vol. 161; p. 971.
Thompson, Alfred A. (See Brill and Thompson.)
Thompson, Andrew J., Aneta, N. D. Engine. No. 969,221; Sept. 6; Sp. p. 164; Gaz. vol. 158; p. 27.
Thompson, Andrew J., assignor of one-fourth to W. L. Norwood, one-fourth to C. A. Pearson, and one-fourth to M. F. Thompson, Springdale, Ark. Stalk-chopper. No. 964,337; July 12; Sp. p. 2836; Gaz. vol. 156; p. 468.

Alphabetical list of patentees—Continued.

Thompson, Andrew L., Dayton, Ohio. Mold for forming concrete columns. No. 969,503; Sept. 6; Sp. p. 747; Gaz. vol. 158; p. 118.
Thompson, Calvin H., Mounds, Okla. Nose-bag holder. No. 957,815; May 10; Sp. p. 2783; Gaz. vol. 154; p. 477.
Thompson, Charles E. (See Krick and Thompson.)
Thompson, Charles L. (See Peterson, Nils, assignor.)
Thompson, Charles P., Patoka, Ind. Weed-hook. No. 956,653; May 3; Sp. p. 320; Gaz. vol. 154; p. 52.
Thompson, Charles W., and F. A. Grearson, Barre, Vt. Chisel. No. 966,719; Aug. 9; Sp. p. 1899; Gaz. vol. 157; p. 321.
Thompson, Clark R., St. Louis, Mo. Photographic apparatus. No. 979,224; Dec. 20; Sp. p. 3939; Gaz. vol. 161; p. 680.
Thompson, Clement E., Chicago, Ill., assignor to Air-Line Carrier Company. Store-service wireway. No. 958,782; May 24; Sp. p. 5149; Gaz. vol. 154; p. 868.
Thompson, Earnest L. (See Hamilton and Thompson.)
Thompson, Edward, York, N. D. Hay-sling lock or trip. No. 963,338; July 5; Sp. p. 750; Gaz. vol. 156; p. 109.
Thompson, Elmer E., and W. H. Wallace, Chester, Okla. Traction-wheel. No. 955,295; Apr. 19; Sp. p. 3449; Gaz. vol. 153; p. 612.
Thompson, Ernest L., and M. C. Brice, Bluffton, Ind. Post-brace. No. 962,271; June 21; Sp. p. 4265; Gaz. vol. 155; p. 737.
Thompson, Erwin W., Charlotte, N. C. Manufacturing cotton-batting and product of the same. No. 970,971; Sept. 20; Sp. p. 3894; Gaz. vol. 158; p. 666.
Thompson, Everett E., Kaufman, Tex. Stove-flue. No. 948,747; Feb. 8; Sp. p. 2049; Gaz. vol. 151; p. 350.
Thompson, Frank. (See Banning, Thomas A., Jr., assignor.)
Thompson, Frank, Chicago, Ill. Multiple-punch press. No. 966,965; Aug. 9; Sp. p. 2439; Gaz. vol. 157; p. 401.
Thompson, Frank, Chicago, Ill. Riveting-machine. No. 977,344; Nov. 29; Sp. p. 7187; Gaz. vol. 160; p. 1222.
Thompson, Frank E., Lake City, Fla. Collapsible drum. No. 961,556; June 14; Sp. p. 2721; Gaz. vol. 155; p. 472.
Thompson, Frank H., assignor to Dennison Manufacturing Co., South Framingham, Mass. Tag. No. 971,804; Oct. 4; Sp. p. 608; Gaz. vol. 159; p. 107.
Thompson, Frederick S., Plainfield, assignor to The Niles-Bement-Pond Company, Jersey City, N. J. Lathe-turret. No. 946,924; Jan. 18; Sp. p. 4313; Gaz. vol. 150; p. 708.
Thompson, Fredrick B., Chicago, Ill., assignor to National Waterproof Film Company. Method and apparatus for coating perforated webs. No. 960,437; June 7; Sp. p. 397; Gaz. vol. 155; p. 67.
Thompson, Fredrick B., assignor to National Waterproof Film Company, Chicago, Ill. Coating picture-films. No. 970,972; Sept. 20; Sp. p. 3896; Gaz. vol. 158; p. 666.
Thompson, George C., assignor of one-half to F. C. Eckert, and one-half to H. Heilemann, Philadelphia, Pa. Brake for railway-cars. No. 963,961; July 12; Sp. p. 2074; Gaz. vol. 156; p. 339.
Thompson, George F., Minneapolis, Minn. Evener-coupling. No. 948,487; Feb. 8; Sp. p. 1495; Gaz. vol. 151; p. 264.
Thompson, George S., Hockessin, Del., assignor to Flexible Bolt Company. Manufacture of stay-bolts. No. 971,805; Oct. 4; Sp. p. 610; Gaz. vol. 159; p. 107.
Thompson, George W., assignor of one-half to G. D. Coleman, Atlanta, Ga. Frog. No. 956,447; Apr. 26; Sp. p. 5984; Gaz. vol. 153; p. 1039.
Thompson, Guy M., assignor to The G. M. Thompson Railway Switch Company, Seattle, Wash. Electric-circuit controller for railway-switches. No. 975,585; Nov. 15; Sp. p. 3361; Gaz. vol. 160; p. 570.
Thompson, Hans, Minneapolis, Minn. Grain-door. No. 953,869; Apr. 5; Sp. p. 372; Gaz. vol. 153; p. 67.
Thompson, Hayes. (See Norris, Richard, assignor.)
Thompson, Henry E., Wisdom, Mont. Siding-tool. No. 979,225; Dec. 20; Sp. p. 3941; Gaz. vol. 161; p. 680.
Thompson, Herbert L., Elgin, Ill. Steam-engine. No. 960,438; June 7; Sp. p. 399; Gaz. vol. 155; p. 67.
Thompson, Herbert L., Elgin, Ill. Steam-generator. No. 979,356; Dec. 20; Sp. p. 4184; Gaz. vol. 161; p. 722.
Thompson, Hiram H., Washington, D. C. Fish-dredge. No. 953,069; Mar. 29; Sp. p. 5345; Gaz. vol. 152; p. 983.
Thompson, Hugh P., Chicago, Ill. Pressure-responsive device. No. 977,486; Dec. 6; Sp. p. 131; Gaz. vol. 161; p. 22.
Thompson, Irvin R., Pittsburg, Pa. Attachment for wheels. No. 976,315; Nov. 22; Sp. p. 4943; Gaz. vol. 160; p. 842.
Thompson, James A., Houston, Tex. Garbage-crematory. No. 952,651; Mar. 22; Sp. p. 4467; Gaz. vol. 152; p. 813.
Thompson, James E., Elkton, Mich. Storm-shield for vehicles. No. 973,585; Oct. 25; Sp. p. 4555; Gaz. vol. 159; p. 795.
Thompson, James E., assignor of one-half to W. R. White, Troy, Ala. Plow. No. 957,272; May 10; Sp. p. 1686; Gaz. vol. 154; p. 295.
Thompson, James F., Pittsburg, and H. S. Hanstine, Ambridge, Pa. Investment-holder for dental soldering. No. 966,369; Aug. 2; Sp. p. 1089; Gaz. vol. 157; p. 175.
Thompson, James T., Chicago, Ill. System of electric signal or control for railway-trains. No. 952,054; Mar. 15; Sp. p. 3235; Gaz. vol. 152; p. 582.
Thompson, Jefferson D., New York, N. Y. Skylight construction. No. 974,310; Nov. 1; Sp. p. 527; Gaz. vol. 160; p. 77.
Thompson, Jesse C., Ottumwa, Iowa. Device for mixing paints. No. 953,070; Mar. 29; Sp. p. 5346; Gaz. vol. 152; p. 983.
Thompson, Jesse C., assignor to The American Sanitary Paper Cup Company, Los Angeles, Cal. Punching and forming machine. No. 945,874; Jan. 11; Sp. p. 1936; Gaz. vol. 150; p. 322.
Thompson, Jesse C., assignor to The American Sanitary Paper Cup Company, Los Angeles, Cal. Container-forming machine. No. 945,875; Jan. 11; Sp. p. 1938; Gaz. vol. 150; p. 323.
Thompson, Jesse C., assignor to The American Sanitary Paper Cup Company, Los Angeles, Cal. Paraffining-machine. No. 951,293; Mar. 8; Sp. p. 1683; Gaz. vol. 152; p. 297.
Thompson, John C., Belmont, Cal. Valve. No. 976,010; Nov. 15; Sp. p. 4218; Gaz. vol. 160; p. 715.
Thompson, John D., Toronto, Ontario, Canada. Tool-handle. No. 968,815; Aug. 30; Sp. p. 6360; Gaz. vol. 157; p. 1109.
Thompson, John F., Bayonne, N. J., assignor to International Nickel Company, New York, N. Y. Treating nickel-copper alloys. No. 947,067; Jan. 18; Sp. p. 4578; Gaz. vol. 150; p. 755.
Thompson, John H., Cheswick, assignor to American Bridge Company, Pittsburg, Pa. Punching-machine. No. 957,914; May 17; Sp. p. 3021; Gaz. vol. 154; p. 542.
Thompson, John J., Lancaster, Pa. License-tag holder. No. 961,267; June 14; Sp. p. 2080; Gaz. vol. 155; p. 374.
Thompson, John R., Peoria, Ill. Darning device. No. 961,557; June 14; Sp. p. 2722; Gaz. vol. 155; p. 473.
Thompson, John R., Flomaton, Ala. Hydraulic ram. No. 974,724; Nov. 1; Sp. p. 1467; Gaz. vol. 160; p. 226.
Thompson, John T. (See Du Pont and Thompson.)
Thompson, John W., Hinchcliff, Miss. Fire-escape. No. 959,404; May 24; Sp. p. 6433; Gaz. vol. 154; p. 1076.
Thompson, Joseph C., Providence, R. I., assignor to K. K. Bosse, New York, N. Y. Proportional measuring instrument. No. 967,267; Aug. 16; Sp. p. 3072; Gaz. vol. 157; p. 532.
Thompson, Josiah. (See Holding, Robert, assignor.)
Thompson, Lars O. T., assignor of one-half to F. L. Ahlsell, Stockholm, Sweden. Feeding device for vapor-burners. No. 952,770; Mar. 22; Sp. p. 4728; Gaz. vol. 152; p. 853.
Thompson, Louis W. (See Gardner, Frederick N. and F. E., assignors.)
Thompson, M. F., *et al.* (See Thompson, Andrew J., assignor.)
Thompson, Mary N., Rockville, Md. Eyeglass-holder. No. 962,065; June 21; Sp. p. 3811; Gaz. vol. 155; p. 667.
Thompson-Meares, Mary, assignor of one-half to A. D. Connelly, Palo Alto, Cal. Dish-pan. No. 973,684; Oct. 25; Sp. p. 4781; Gaz. vol. 159; p. 830.
Thompson and Norris Company, The. (See Lewis, Charles W., assignor.)
Thompson, Ora, Earl Park, Ind. Threshing-machine. No 970,973; Sept. 20; Sp. p. 3898; Gaz. vol. 158; p. 666.
Thompson, Oswald H., Philadelphia, Pa. Means for loosening the lids of cans. No. 979,226; Dec. 20; Sp. p. 3944; Gaz. vol. 161; p. 681.
Thompson, Perry A., Parma, Colo. Potato-digger. No. 965,667; July 26; Sp. p. 5772; Gaz. vol. 156; p. 982.
Thompson, Ralph P., Springfield, Ohio. Electric fan. No. 956,229; Apr. 26; Sp. p. 5529; Gaz. vol. 153; p. 964.
Thompson, Ralph P., and E. Koeb, Springfield, Ohio. Explosive-engine. No. 952,483; Mar. 22; Sp. p. 4088; Gaz. vol. 152; p. 755.
Thompson, Robert. (See Thompson, William H. and R.)
Thompson, Robert J., and E. C. Snodgrass, Washburn, Tex. Folding receptacle. No. 977,760; Dec. 6; Sp. p. 757; Gaz. vol. 161; p. 117.
Thompson, Sanford E., Newton, Mass. Time ascertaining and recording book or device. No. 956,230; Apr. 26; Sp. p. 5531; Gaz. vol. 153; p. 965.
Thompson, Thomas, Burlington, Iowa. Lightning-rod construction. No. 963,830; July 12; Sp. p. 1810; Gaz. vol. 156; p. 297.
Thompson, Thomas, Blackheath, England. Steam-engine air-pump. No. 967,860; Aug. 16; Sp. p. 4282; Gaz. vol. 157; p. 732.
Thompson, Thomas L., Williston, Tenn. Fly-fan. No. 948,356; Feb. 8; Sp. p. 1200; Gaz. vol. 151; p. 219.
Thompson, Walter F., Plattsburg, Mo. Initial-handle. No. 952,766; Mar. 22; Sp. p. 4719; Gaz. vol. 152; p. 851.
Thompson, Walter N., Tucson, Ariz. Ammonia-leak tester. No. 977,761; Dec. 6; Sp. p. 758; Gaz. vol. 161; p. 117.
Thompson, Walter S., and C. W. Bahr, Fort Collins, Colo. Piano touch-regulator. No. 956,448; Apr. 26; Sp. p. 5986; Gaz. vol. 153; p. 1039.
Thompson, Warren R., assignor to H. M. Byllesby & Company, Chicago, Ill. Insulator-support. No. 974,207; Nov. 1; Sp. p. 237; Gaz. vol. 160; p. 38.
Thompson, Wilbur H., Wheeling, W. Va. Means for attaching telegraphone control mechanism to telephones. No. 949,690; Feb. 15; Sp. p. 3962; Gaz. vol. 151; p. 690.
Thompson, Wilbur H., Wheeling, W. Va. Telephone. No. 955,923; Apr. 26; Sp. p. 4842; Gaz. vol. 153; p. 856.

Alphabetical list of patentees—Continued.

Thompson, Wilbur H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electric-motor control. No. 977,571; Dec. 6; Sp. p. 359; Gaz. vol. 161; p. 52.

Thompson, Wilbur H., Wheeler, W. Va., and H. R. Stuart, Milwaukee, Wis. Telephone-receiver. No. 980,024; Dec. 27; Sp. p. 5616; Gaz. vol. 161; p. 971.

Thompson, William, *et al.* (See Bogenschutz, William C., assignor.)

Thompson, William F., assignor to W. E. Piper, Melrose, Mass. Shipping-case-strapping machine. No. 977,487; Dec. 6; Sp. p. 134; Gaz. vol. 161; p. 23.

Thompson, William H., Jr., St. Thomas, assignor to International Roturbine Engine Company of America, Fargo, N. D. Rotary engine. No. 966,622; Aug. 9; Sp. p. 1690; Gaz. vol. 157; p. 288.

Thompson, William H. and R., London, England. Electrically-operated apparatus for discharging liquids for flushing or other purposes. No. 978,678; Dec. 13; Sp. p. 2736; Gaz. vol. 161; p. 466.

Thompson, William J., *et al.* (See Tullock, William, assignor.)

Thompson, William S., Wyanet, Ill. Hay-fork. No. 971,324; Sept. 27; Sp. p. 4629; Gaz. vol. 158; p. 810.

Thoms, William H., and H. W. Dummert, Carleton Place, Ontario, Canada. Side-play liner for locomotive-trucks. No. 970,138; Sept. 13; Sp. p. 2124; Gaz. vol. 158; p. 362.

Thomsen, Ernest G., Philadelphia, Pa. Reel. No. 965,254; July 26; Sp. p. 4860; Gaz. vol. 156; p. 839.

Thomsen, Herman E., Houston, Tex. Cash-fare-slip holder. No. 960,733; June 7; Sp. p. 1001; Gaz. vol. 155; p. 168.

Thomsen, Johannes. (See Muehlhausen and Thomsen.)

Thomsen, Magnus, Davenport, Iowa. Apparatus for pasteurizing or cooling liquids. No. 952,767; Mar. 22; Sp. p. 4721; Gaz. vol. 152; p. 852.

Thomson, Archibald, Peoria, Ill. Shackle. No. 976,316; Nov. 22; Sp. p. 4944; Gaz. vol. 160; p. 843.

Thomson, Arthur G., assignor of one-half to A. Sutton, San Francisco, Cal. Wheel-tire. No. 950,416; Feb. 22; Sp. p. 5561; Gaz. vol. 151; p. 975.

Thomson, Arthur G., assignor of one-half to A. Sutton, San Francisco, Cal. Tire-armor. No. 950,417; Feb. 22; Sp. p. 5562; Gaz. vol. 151; p. 975.

Thomson, Arthur G., assignor of one-half to A. Sutton, San Francisco, Cal. Tire-armor. No. 953,071; Mar. 29; Sp. p. 5347; Gaz. vol. 152; p. 984.

Thomson, Arthur G., assignor of one-half to A. Sutton, San Francisco, Cal. Tire-protective armor. No. 976,011; Nov. 15; Sp. p. 4219; Gaz. vol. 160; p. 715.

Thomson, Charles R., Adams, Mass., assignor to Renfrew Manufacturing Company. Selvage-printing mechanism. No. 960,439; June 7; Sp. p. 400; Gaz. vol. 155; p. 67.

Thomson Electric Welding Company. (See Barstow, George E., assignor.)

Thomson Electric Welding Company. (See Thomson, Elihu, assignor.)

Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Resistance unit. No. 945,993; Jan. 11; Sp. p. 2198; Gaz. vol. 150; p. 365.

Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 953,241; Mar. 29; Sp. p. 5730; Gaz. vol. 152; p. 1039.

Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 957,915; May 17; Sp. p. 3023; Gaz. vol. 154; p. 542.

Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Compensator. No. 960,440; June 7; Sp. p. 403; Gaz. vol. 155; p. 68.

Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Production of fine-metal tungsten. No. 960,441; June 7; Sp. p. 405; Gaz. vol. 155; p. 68.

Thomson, Elihu, Swampscott, assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Electrical welding of sheet metal. No. 973,586; Oct. 25; Sp. p. 4556; Gaz. vol. 159; p. 795.

Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Balancing means for turbines. No. 969,734; Sept. 6; Sp. p. 1239; Gaz. vol. 158; p. 199.

Thomson, George A., Somerville, N. J. Arc-lamp electrode. No. 961,268; June 14; Sp. p. 2081; Gaz. vol. 155; p. 374.

Thomson, George A., Somerville, N. J. Arc-lamp electrode. No. 961,269; June 14; Sp. p. 2081; Gaz. vol. 155; p. 374.

Thomson, Henry C., Boston, Mass., assignor to Electric Goods Manufacturing Company. Circuit-closer. No. 959,435; May 24; Sp. p. 6484; Gaz. vol. 154; p. 1086.

Thomson, John, assignor to Imbert Process Company, New York, N. Y. Electric furnace. No. 950,877; Mar. 1; Sp. p. 873; Gaz. vol. 152; p. 140.

Thomson, John, assignor to Imbert Process Company, New York, N. Y. Electric furnace. No. 950,879; Mar. 1; Sp. p. 879; Gaz. vol. 152; p. 141.

Thomson, John, assignor to Imbert Process Company, New York, N. Y. Electric furnace. No. 950,880; Mar. 1; Sp. p. 883; Gaz. vol. 152; p. 141.

Thomson, John, assignor to Imbert Process Company, New York, N. Y. Electric furnace. No. 950,881; Mar. 1; Sp. p. 886; Gaz. vol. 152; p. 141.

Thomson, John, assignor to Imbert Process Company, New York, N. Y. Electric furnace. No. 950,882; Mar. 1; Sp. p. 888; Gaz. vol. 152; p. 142.

Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Press. No. 957,916; May 17; Sp. p. 3026; Gaz. vol. 154; p. 543.

Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Printing-press. No. 957,917; May 17; Sp. p. 3027; Gaz. vol. 154; p. 543.

Thomson, John, New York, and F. A. J. Fitz Gerald, Niagara Falls, assignors to Imbert Process Company, New York, N. Y. Furnace. No. 950,878; Mar. 1; Sp. p. 876; Gaz. vol. 152; p. 141.

Thomson, John, New York, and F. A. J. Fitz Gerald, Niagara Falls, assignors to Imbert Process Company, New York, N. Y. Electric furnace. No. 951,086; Mar. 1; Sp. p. 1260; Gaz. vol. 152; p. 207.

Thomson, Judson L., New York, N. Y. Smoking-pipe, &c. No. 959,649; May 31; Sp. p. 6967; Gaz. vol. 154; p. 1186.

Thomson, Judson L., New York, N. Y. Filter. No. 973,723; Oct. 25; Sp. p. 4852; Gaz. vol. 159; p. 844.

Thomson, Maitland, New York, N. Y. Sofa-bedstead. No. 972,293; Oct. 11; Sp. p. 1701; Gaz. vol. 159; p. 299.

Thomson, Maitland, New York, N. Y. Couch. No. 979,049; Dec. 20; Sp. p. 3525; Gaz. vol. 161; p. 617.

Thomson, Samuel G. (See Thomson, William P. and S. G.)

Thomson-Thomson Company. (See Thomson, William P. and S. G., assignors.)

Thomson, William, Manchester, England, and J. A. Morrice, Glasgow, Scotland. Manufacture of modified starch. No. 951,666; Mar. 8; Sp. p. 2448; Gaz. vol. 152; p. 423.

Thomson, William I., Newark, N. J., assignor to The Safety Car Heating & Lighting Company. Dynamo-driving. No. 957,522; May 10; Sp. p. 2192; Gaz. vol. 154; p. 379.

Thomson, William I., Newark, N. J., assignor to The Safety Car Heating & Lighting Company. Voltage-regulator. No. 960,734; June 7; Sp. p. 1003; Gaz. vol. 155; p. 168.

Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Splice-bar for rail-joints. No. 960,237; May 31; Sp. p. 8237; Gaz. vol. 154; p. 1386.

Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Splice-bar for rails. No. 960,238; May 31; Sp. p. 8240; Gaz. vol. 154; p. 1387.

Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Insulated rail-joint. No. 964,338; July 12; Sp. p. 2838; Gaz. vol. 156; p. 468.

Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 967,687; Aug. 16; Sp. p. 3926; Gaz. vol. 157; p. 674.

Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 968,500; Aug. 23; Sp. p. 5664; Gaz. vol. 157; p. 976.

Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 969,124; Aug. 30; Sp. p. 6988; Gaz. vol. 157; p. 1215.

Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 972,735; Oct. 11; Sp. p. 2670; Gaz. vol. 159; p. 453.

Thomson, William P. and S. G., assignors to Thomsoh-Thomson Company, Philadelphia, Pa. Rail-joint. No. 975,376; Nov. 8; Sp. p. 2917; Gaz. vol. 160; p. 470.

Thorbjornsen, Paul, assignor to S. Karpen & Brothers, Chicago, Ill. Sofa-bed. No. 946,887; Jan. 18; Sp. p. 4228; Gaz. vol. 150; p. 696.

Thordarson, Chester H., Chicago, Ill. High-potential-alternating-current rectifier. No. 950,124; Feb. 22; Sp. p. 4981; Gaz. vol. 151; p. 876.

Thordarson, Chester H., Chicago, Ill. Spark-coil. No. 952,692; Mar. 22; Sp. p. 4552; Gaz. vol. 152; p. 827.

Thordarson, Chester H., Chicago, Ill. Spark-coil. No. 958,899; May 24; Sp. p. 5435; Gaz. vol. 154; p. 910.

Thordarson, Chester H., Chicago, Ill. Insulating-bushing. No. 962,726; June 28; Sp. p. 5263; Gaz. vol. 155; p. 918.

Thordarson, Chester H., Chicago, Ill. Circuit-closing plug for electrical circuits. No. 966,139; Aug. 2; Sp. p. 610; Gaz. vol. 157; p. 101.

Thoreau, John W., Worland, Wyo. Combined extensible curtain-roller and curtain-pole supporter. No. 950,034; Feb. 22; Sp. p. 4813; Gaz. vol. 151; p. 847.

Thoreen, Eric G. (See Ericsson and Thoreen.)

Thorel, Georges N., Amiens, France. Machine for making seamless galoshes and uppers for boots and shoes. No. 967,586; Aug. 16; Sp. p. 3735; Gaz. vol. 157; p. 642.

Thorn, Walter, *et al.* (See Moudy, Willard A., assignor.)

Thornber, James M., Fort Madison, Iowa. Vending-machine. No. 969,735; Sept. 6; Sp. p. 1241; Gaz. vol. 158; p. 200.

Thornburg, Lincoln A., Hartford City, Ind. Continuous-drawn sheet-glass machine. No. 956,449; Apr. 26; Sp. p. 5986; Gaz. vol. 153; p. 1039.

Thornburg, Lincoln A., Muncie, Ind., assignor of one-half to American Window Glass Machine Company, Pittsburg, Pa. Glass-drawing process and apparatus. No. 979,601; Dec. 27; Sp. p. 4724; Gaz. vol. 161; p. 829.

Thorndike, James V., Randolph, Nebr. Combined spark-coil and indicator. No. 953,498; Mar. 29; Sp. p. 6289; Gaz. vol. 152; p. 1127.

Alphabetical list of patentees—Continued.

Thorne, Frank D., *et al.* (See Johnson, Edwin E., assignor.)
Thorne, Isaac T., Bergen, N. D. Buckle. No. 954,227; Apr. 5; Sp. p. 1142; Gaz. vol. 153; p. 190.
Thorne, Josiah C., assignor of four-tenths to S. A. Clarke, Napa Junction, Cal. Cigar-clipper attachment for pencils. No. 959,272; May 24; Sp. p. 6185; Gaz. vol. 154; p. 1033.
Thorne, Thomas H., Vancouver, British Columbia, Canada. Wrench. No. 968,816; Aug. 30; Sp. p. 6361; Gaz. vol. 157; p. 1109.
Thorne, Walter L., assignor of one-third to H. F. Siebern, Cincinnati, one-third to A. N. Siebern, and one-third to L. E. Brockmann, Norwood Heights, Ohio. Window-ventilator. No. 963,831; July 12; Sp. p. 1811; Gaz. vol. 156; p. 298.
Thorner, Bernard D., assignor to The Hospital Supply Company, New York, N. Y. Operating-table for the use of physicians and surgeons. No. 972,414; Oct. 11; Sp. p. 1948; Gaz. vol. 159; p. 342.
Thornley, Albert J., Pawtucket, assignor to Consolidated Car Fender Company, Providence, R. I. Car-fender. No. 960,056; May 31; Sp. p. 7898; Gaz. vol. 154; p. 1326.
Thornley, Albert J., Pawtucket, assignor to Consolidated Car Fender Company, Providence, R. I. Car-fender. No. 964,887; July 19; Sp. p. 4124; Gaz. vol. 156; p. 686.
Thornley, Albert J., assignor to Narragansett Machine Company, Pawtucket, R. I. Locker construction. No. 979,357; Dec. 20; Sp. p. 4186; Gaz. vol. 161; p. 722.
Thornmann, Gustav, Chicago, Ill. Chimney cowl or top. No. 966,370; Aug. 2; Sp. p. 1091; Gaz. vol. 157; p. 175.
Thornton, Charles W., Dalhart, Tex. Sanitary cleansing and indicating device for drinking vessels. No. 959,970; May 31; Sp. p. 7684; Gaz. vol. 154; p. 1295.
Thornton, James, St. Joseph, Mo. Strap-working machine. No. 969,308; Sept. 6; Sp. p. 324; Gaz. vol. 158; p. 54.
Thornton, Jerome, and E. Heymanson, New York, N. Y. Refrigerator-car. No. 952,382; Mar. 15; Sp. p. 3862; Gaz. vol. 152; p. 691.
Thornton, John E., Altrincham, England. Photographic camera. No. 948,939; Feb. 8; Sp. p. 2428; Gaz. vol. 151; p. 414.
Thornton, John L. (See Foreman and Thornton.)
Thornton-Pickard Manufacturing Company Limited, The. (See Whitehead, Frank P., assignor.)
Thornycroft, John I., Chiswick, England. Spraying apparatus. No. 957,014; May 3; Sp. p. 1116; Gaz. vol. 154; p. 175.
Thorold, William J., London, England. Pneumatic tire and the like. No. 949,947; Feb. 22; Sp. p. 4565; Gaz. vol. 151; p. 816.
Thorold, William J., London, England. Composition of matter. No. 959,650; May 31; Sp. p. 6969; Gaz. vol. 154; p. 1186.
Thorp, George M., *et al.* (See Lindgren, Carl E., assignor.)
Thorp, Thomas J., assignor to T. J. Thorp Manufacturing Company, Corvallis, Oreg. Motor-vehicle. No. 965,607; July 26; Sp. p. 5654; Gaz. vol. 156; p. 962.
Thorpe, Frank M., Lamar, Mo. Broom-hanger. No. 974,612; Nov. 1; Sp. p. 1215; Gaz. vol. 160; p. 187.
Thorpe, Joseph M. (See Thorpe, William C. and J. M.)
Thorpe, William C. and J. M., Fruitvale, Cal. Door-lock. No. 967,461; Aug. 16; Sp. p. 3471; Gaz. vol. 157; p. 598.
Thors, Karl O. S., assignor to A. Karlson Metall & Maskin Aktiebolag, Stockholm, Sweden. Grinding-mill. No. 975,807; Nov. 15; Sp. p. 3827; Gaz. vol. 160; p. 644.
Thorsby, Axel, assignor to The Berlin Machine Works, Beloit, Wis. Lathe or turning-machine. No. 973,587; Oct. 25; Sp. p. 4557; Gaz. vol. 159; p. 795.
Thorschmidt, Ernest C., New York, N. Y. Tool. No. 973,724; Oct. 25; Sp. p. 4854; Gaz. vol. 159; p. 844.
Thorschmidt, Ernest C., New York, N. Y. Tool. No. 973,725; Oct. 25; Sp. p. 4855; Gaz. vol. 159; p. 844.
Thorsen, Jens O., Aalborg, Denmark. Potato-harvest machine. No. 973,318; Oct. 18; Sp. p. 3982; Gaz. vol. 159; p. 681.
Thorspeck, Louis K., South Haven, Mich. Wheel. No. 972,485; Oct. 11; Sp. p. 2095; Gaz. vol. 159; p. 365.
Thorstenberg, Luther, McMinnville, Tenn. Fruit-picker. No. 978,791; Dec. 13; Sp. p. 2962; Gaz. vol. 161; p. 501.
Thortvedt, Levi, Glyndon, Minn. Bug and worm killing machine. No. 957,634; May 10; Sp. p. 2407; Gaz. vol. 154; p. 417.
Thos. Devlin Manufacturing Co. (See Frick, John J., assignor.)
Thos. H. Dallett Co. (See Van Sickel, Wilber H., assignor.)
Thrall, Burton H. (See Thrall, Shea, and Thrall.)
Thrall, Forrest E., S. Shea, and B. H. Thrall, Lake Charles, La. Drop-stake for logging-cars. No. 949,966; Feb. 22; Sp. p. 4603; Gaz. vol. 151; p. 822.
Thrasher, Samuel P., Hartford, Conn. Electromagnet. No. 952,086; Mar. 15; Sp. p. 3288; Gaz. vol. 152; p. 592.
Thrasher, William E., Sheldon, Mo. Folding crate. No. 970,279; Sept. 13; Sp. p. 2434; Gaz. vol. 158; p. 410.
Threewits, Alvin M., Centerville, Ind. Railway switch and frog. No. 967,268; Aug. 16; Sp. p. 3075; Gaz. vol. 157; p. 533.
Throckmorton, Charles W., Pittsburg, Pa. Lockout device for telephones. No. 946,287; Jan. 11; Sp. p. 2806; Gaz. vol. 150; p. 467.
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., G. m. b. H., Frankfort-on-the-Main, Germany. Quinin ester. No. 978,792; Dec. 13; Sp. p. 2963; Gaz. vol. 161; p. 501.
Throop, John H., Evansville, Ind. Sad-iron handle. No. 973,998; Oct. 25; Sp. p. 5426; Gaz. vol. 159; p. 940.
Thuener, Christian F., East Cleveland, Ohio. Fire-escape. No. 946,588; Jan. 18; Sp. p. 3527; Gaz. vol. 150; p. 594.
Thum, William, Hammond, Ind. Electrolytic apparatus. No. 969,921; Sept. 13; Sp. p. 1679; Gaz. vol. 158; p. 289.
Thumlert, Charles H. (See Coes, Scott, and Thumlert.)
Thun, Ferdinand, Reading, Pa. Braided hat. No. 967,462; Aug. 16; Sp. p. 3473; Gaz. vol. 157; p. 598.
Thunen, Charles G., Oroville, and G. A. Morrill, Oakland, Cal. Lamp-bracket. No. 973,319; Oct. 18; Sp. p. 3984; Gaz. vol. 159; p. 682.
Thurber, William L., Shellrock, Iowa. Lace-curtain pole. No. 952,154; Mar. 15; Sp. p. 3422; Gaz. vol. 152; p. 615.
Thurlby, Arthur A., Chicago, Ill. Identifying-tag. No. 960,442; June 7; Sp. p. 406; Gaz. vol. 155; p. 68.
Thurlow, Ira M., Menominee, Mich., assignor of one-half to D. C. Prescott, Chicago, Ill., and one-half to L. L. Prescott, Menominee, Mich. Sawmill setting and receding mechanism. No. 973,588; Oct. 25; Sp. p. 4559; Gaz. vol. 159; p. 795.
Thurman, Cora B., Baltimore, Md. Comb. No. 946,622; Jan. 18; Sp. p. 3612; Gaz. vol. 150; p. 606.
Thurman, John S., St. Louis, Mo. Dust-receptacle. No. 951,624; Mar. 8; Sp. p. 2356; Gaz. vol. 152; p. 408.
Thurman, John S., St. Louis, Mo. Single-tank vacuum cleaning apparatus. No. 956,231; Apr. 26; Sp. p. 5533; Gaz. vol. 153; p. 965.
Thurman, John S., St. Louis, Mo. Dust-receptacle. No. 956,450; Apr. 26; Sp. p. 5990; Gaz. vol. 153; p. 1040.
Thurman, John S., St. Louis, Mo. Suction-head for vacuum cleaning systems. No. 956,451; Apr. 26; Sp. p. 5992; Gaz. vol. 153; p. 1040.
Thurman, John S., St. Louis, Mo. Hand vacuum-cleaner. No. 956,452; Apr. 26; Sp. p. 5993; Gaz. vol. 153; p. 1040.
Thurston, E. L., *et al.* (See Kimball, Robert E., assignor.)
Thurston, Edwin L., administrator. (See Thurston, John L.)
Thurston, Fredus A., Chicago, Ill. Spark-producing device. No. 950,214; Feb. 22; Sp. p. 5176; Gaz. vol. 151; p. 908.
Thurston, George E., Colby, Wash. Tongs. No. 967,463; Aug. 16; Sp. p. 3475; Gaz. vol. 157; p. 599.
Thurston, John L., deceased, Boston, Mass.; E. L. Thurston, administrator. Faucet. No. 953,186; Mar. 29; Sp. p. 5616; Gaz. vol. 152; p. 1021.
Thurston, Thomas O., assignor of one-half to E. C. Bellwood, Manchester, Va. Corn-harvester. No. 961,660; June 14; Sp. p. 2928; Gaz. vol. 155; p. 507.
Thurston, William T., Hasbrouck Heights, N. J. Ash-sifter. No. 953,402; Mar. 29; Sp. p. 6083; Gaz. vol. 152; p. 1093.
Thust, George J., assignor to Detroit Seamless Steel Tubes Company, Detroit, Mich. Vehicle-pole. No. 957,582; May 10; Sp. p. 2300; Gaz. vol. 154; p. 399.
Thwaites Brothers. (See St. Seine, Bernard de, assignor.)
Thwaites, John H., Peterborough, England. Producing zinc pigments from liquors obtained from pyrites or pyrites-cinder and the like. No. 975,907; Nov. 15; Sp. p. 4024; Gaz. vol. 160; p. 679.
Thwaites, John H., and S. J. Ralph, Peterborough, England. Separating metals from wet-process liquors. No. 972,584; Oct. 11; Sp. p. 2349; Gaz. vol. 159; p. 402.
Tibbals, Cyrus F. (See Putnam, Theodore A. B., assignor.)
Tibbetts, Charles H., New Castle, Colo. Track-fastener. No. 952,962; Mar. 22; Sp. p. 5113; Gaz. vol. 152; p. 918.
Tibbs, Smith G., Akron, Ohio. Surgical appliance. No. 967,269; Aug. 16; Sp. p. 3080; Gaz. vol. 157; p. 533.
Tice, Andrew J., assignor to The American Case & Register Company, Salem, Ohio. File clip and plate. No. 947,622; Jan. 25; Sp. p. 5841; Gaz. vol. 150; p. 970.
Tice, Andrew J., assignor to The American Case & Register Company, Salem, Ohio. Credit-cabinet. No. 962,177; June 21; Sp. p. 4073; Gaz. vol. 155; p. 707.
Tichomiroff, Victor, and L. Schechter, Kolomna, Moscow, Russia. Hydraulic coupling. No. 973,893; Oct. 25; Sp. p. 5210; Gaz. vol. 159; p. 904.
Tidd, Oscar E., Georgetown, Mass. Ball-bearing jack-screw. No. 964,824; July 19; Sp. p. 3989; Gaz. vol. 156; p. 664.
Tideman, Henry, Menominee, Mich. Armature for electric generators. No. 949,784; Feb. 22; Sp. p. 4193; Gaz. vol. 151; p. 757.
Tideman, Henry, Menominee, Mich., assignor of one-half to J. Wolff, Chicago, Ill. Flexible metallic tubing. No. 973,238; Oct. 18; Sp. p. 3826; Gaz. vol. 159; p. 654.
Tidewater Specialty Company. (See Boykin, Christopher C., assignor.)
Tidmore, Irenaeus P., Malakoff, Tex. Mail-bag catching and delivering apparatus. No. 979,723; Dec. 27; Sp. p. 4968; Gaz. vol. 161; p. 870.

Alphabetical list of patentees—Continued.

Tidnam, Frederick H., Oklahoma, Okla. Telegraph-pole or fence-post mold. No. 975,481; Nov. 15; Sp. p. 3124; Gaz. vol. 160; p. 534.
Tidnam, Frederick H., and J. N. Graves, Oklahoma, Okla. Telescoping core for forming plastic poles or posts. No. 973,239; Oct. 18; Sp. p. 3829; Gaz. vol. 159; p. 655.
Tidnam, Frederick H., and J. N. Graves, Oklahoma, Okla. Molding apparatus. No. 977,345; Nov. 29; Sp. p. 7189; Gaz. vol. 160; p. 1222.
Tiedemann, Henry, Camden, N. J., and J. U. Clarke, assignors of one-third to E. Guenther; said Clarke assignor to J. J. Guenther, Philadelphia, Pa. Convertible chair and couch. No. 956,836; May 3; Sp. p. 730; Gaz. vol. 154; p. 115.
Tiedemann, Henry, Camden, N. J., and J. U. Clarke, assignors of one-third to E. Guenther; said Clarke assignor to J. J. Guenther, Philadelphia, Pa. Convertible chair and couch. No. 956,837; May 3; Sp. p. 731; Gaz. vol. 154; p. 116.
Tiedt, Henry J., assignor to Crescent Manufacturing Company, Buffalo, N. Y. Shovel. No. 967,270; Aug. 16; Sp. p. 3081; Gaz. vol. 157; p. 533.
Tiemann, Fritz, Tucuman, Argentina. Vacuum-pan. No. 955,483; Apr. 19; Sp. p. 3849; Gaz. vol. 153; p. 677.
Tiemann, Harry D., Washington, D. C. Apparatus and process for controlling humidity of gases in drying operations. No. 963,832; July 12; Sp. p. 1813; Gaz. vol. 156; p. 298.
Tierney, John W. (See Boys and Tierney.)
Tierney, Michael J., Rochester, N. Y. Automatic grate-lock. No. 946,081; Jan. 11; Sp. p. 2369; Gaz. vol. 150; p. 393.
Tiesenhausen, Felix von, Riga, Russia. Folding stool. No. 976,136; Nov. 15; Sp. p. 4493; Gaz. vol. 160; p. 758.
Tiesse, August, Chicago, Ill. Pasteurizing apparatus. No. 966,872; Aug. 9; Sp. p. 2255; Gaz. vol. 157; p. 370.
Tiffany, Eli, Bennington, Vt., assignor to Nye and Fredick Company. Needle and jack structure for knitting-machines. No. 969,222; Sept. 6; Sp. p. 169; Gaz. vol. 158; p. 27.
Tiffany, George S. (See Cozzens, Estwick, and Tiffany.)
Tiffany, George S., Summit, N. J., assignor to The Gray National Telautograph Company, New York, N. Y. Telautograph. No. 954,062; Apr. 5; Sp. p. 759; Gaz. vol. 153; p. 132.
Tiffany, George S., Summit, N. J., assignor to The Gray National Telautograph Company, New York, N. Y. Telautograph. No. 954,150; Apr. 5; Sp. p. 952; Gaz. vol. 153; p. 163.
Tiffany, Homer A. (See Park, David M., assignor.)
Tiffany, William S., Columbus, Ohio. Chemical fire-extinguisher. No. 974,208; Nov. 1; Sp. p. 238; Gaz. vol. 160; p. 39.
Tigerman, William H. (See Pfautz, Daniel M., assignor.)
Tigerman, William H. (See Smith, Josiah H., assignor.)
Tilden, Austin, Sheridan, Oreg. Saw-set. No. 952,963; Mar. 22; Sp. p. 5114; Gaz. vol. 152; p. 918.
Tilden, Bert O., New York, N. Y. Float. No. 966,720; Aug. 9; Sp. p. 1900; Gaz. vol. 157; p. 321.
Tilden, Bert O., assignor to American Sanitary Works, New York, N. Y. Flush-tank-operating mechanism. No. 945,295; Jan. 4; Sp. p. 631; Gaz. vol. 150; p. 98.
Tilden, Bert O., assignor to American Sanitary Works, New York, N. Y. Flush-tank-operating mechanism. No. 945,424; Jan. 4; Sp. p. 906; Gaz. vol. 150; p. 141.
Tilden, David M., Springfield, Mass. Carbureter. No. 978,076; Dec. 6; Sp. p. 1405; Gaz. vol. 161; p. 226.
Tilden, James A., Hyde Park, assignor to Hersey Manufacturing Company, South Boston, Mass. Meter system. No. 971,510; Sept. 27; Sp. p. 4972; Gaz. vol. 158; p. 871.
Tilden-Thurber Company. (See Nichols, George V., assignor.)
Tilles, Ralph, New York, N. Y. Carpenter's plane. No. 965,766; July 26; Sp. p. 5982; Gaz. vol. 156; p. 1016.
Tilles, Roy E., St. Louis, Mo. Foot-measuring device. No. 967,464; Aug. 16; Sp. p. 3476; Gaz. vol. 157; p. 599.
Tilleson, Carl G. (See Krohn, Julius, assignor.)
Tilley, Benjamin F. (See Tilley, Benjamin W. and B. F.)
Tilley, Benjamin W. and B. F., Bearcreek, La. Pneumatic cotton-seed conveyer. No. 957,126; May 3; Sp. p. 1332; Gaz. vol. 154; p. 213.
Tilley, William M. (See Lindsey and Tilley.)
Tillie, Marshall, Londonderry, Ireland. Machine for making buttonholes in collars, cuffs, &c. No. 947,605; Jan. 25; Sp. p. 5803; Gaz. vol. 150; p. 964.
Tillie, Marshall, Londonderry, Ireland. Guide for collars. No. 957,816; May 10; Sp. p. 2785; Gaz. vol. 154; p. 478.
Tillinghast, James. (See Loring, Benjamin C., assignor.)
Tillison, Charles D., Oakland, Cal. Steam and vacuum trap. No. 948,028; Feb. 1; Sp. p. 517; Gaz. vol. 151; p. 83.
Tillman, William G., New York, N. Y., assignor of one-half to H. Weinberger, Ansonia, Conn. Burglar-alarm. No. 957,635; May 10; Sp. p. 2412; Gaz. vol. 154; p. 417.
Tillow, William T. von, San Francisco, Cal. Electrical apparatus for melting sealing-wax. No. 945,822; Jan. 11; Sp. p. 1811; Gaz. vol. 150; p. 304.
Tilly, Charles A., Brooklyn, N. Y. Rail-chair. No. 960,443; June 7; Sp. p. 408; Gaz. vol. 155; p. 69.
Tilly, Charles A., Brooklyn, N. Y. Faucet. No. 967,861; Aug. 16; Sp. p. 4283; Gaz. vol. 157; p. 733.
Tilmes, William C., and F. G. Kallmeyer, Cincinnati, Ohio. Base-ball-game board. No. 969,424; Sept. 6; Sp. p. 583; Gaz. vol. 158; p. 93.
Tilson, William H., Plainview, Tex. Stalk-packer for corn-harvesters. No. 951,922; Mar. 15; Sp. p. 2986; Gaz. vol. 152; p. 540.
Tilston, Edward, Manchester, England. Force-feed lubricator. No. 948,192; Feb. 1; Sp. p. 841; Gaz. vol. 151; p. 138.
Tim & Co. *et al.* (See Ferguson, Clarence W., assignor.)
Timby, Theodore F., Alma, Mich. Universal joint. No. 954,228; Apr. 5; Sp. p. 1143; Gaz. vol. 153; p. 190.
Timm, Clarence J., and J. A. Barnhardt, Duluth, Minn. Locking device for incandescent lamps. No. 959,818; May 31; Sp. p. 7328; Gaz. vol. 154; p. 1241.
Timmerhoff, Ernest, and F. F. Timmerhoff, deceased, (A. S. Widaman, administrator,) Warsaw, Ind. Folding go-cart. No. 947,868; Feb. 1; Sp. p. 186; Gaz. vol. 151; p. 32.
Timmerhoff, Frank F. (See Timmerhoff, Ernest and F. F.)
Timmerman, John A., Creston, Iowa. Mail crane and catcher. No. 972,946; Oct. 18; Sp. p. 3180; Gaz. vol. 159; p. 554.
Timms, James, Columbus, Ohio. Draft-rigging. No. 965,126; July 19; Sp. p. 4587; Gaz. vol. 156; p. 765.
Timms, James, Columbus, Ohio. Car-coupling. No. 969,674; Sept. 6; Sp. p. 1105; Gaz. vol. 158; p. 178.
Tin Products Company. (See Kügelgen and Seward, assignors.)
Tindall, Chloa W., Denver, Colo. Cushion for handles of shears or scissors. No. 970,406; Sept. 13; Sp. p. 2674; Gaz. vol. 158; p. 452.
Tindall, Ida M., Pontiac, Ill. Desk. No. 957,583; May 10; Sp. p. 2301; Gaz. vol. 154; p. 399.
Tiner, John F., assignor of one-third to T. M. Milam and one-third to W. D. Kincaid, Uvalde, Tex. Pipe-wrench. No. 970,574; Sept. 20; Sp. p. 3051; Gaz. vol. 158; p. 531.
Tingley, Egbert M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 945,425; Jan. 4; Sp. p. 909; Gaz. vol. 150; p. 142.
Tingley, Egbert M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush-holder for dynamo-electric machines. No. 956,548; May 3; Sp. p. 90; Gaz. vol. 154; p. 16.
Tingley, Egbert M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 956,549; May 3; Sp. p. 92; Gaz. vol. 154; p. 17.
Tingley, Egbert M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 959,651; May 31; Sp. p. 6970; Gaz. vol. 154; p. 1186.
Tingley, Katherine. (See Dick, Frederick J., assignor.)
Tingley, Lloyd M., Pawtucket, assignor of one-third to S. Gee, Providence, and one-third to B. H. Nixon, Summit, R. I. Indicator for vehicles. No. 973,726; Oct. 25; Sp. p. 4856; Gaz. vol. 159; p. 845.
Tinker, Wilkie, Anamoose, N. D. Tank-heater. No. 950,418; Feb. 22; Sp. p. 5564; Gaz. vol. 151; p. 975.
Tinkham, Francis M., Springfield, Mass. Foldable mattress-frame. No. 979,227; Dec. 20; Sp. p. 3945; Gaz. vol. 161; p. 681.
Tinsley, Addison B., Ansted, W. Va. Insulator. No. 945,350; Jan. 4; Sp. p. 753; Gaz. vol. 150; p. 116.
Tippett, Albert C., Astoria, Oreg. Attachment for wood-working-machines. No. 952,964; Mar. 22; Sp. p. 5115; Gaz. vol. 152; p. 919.
Tippit, William P., Fayette, Mo. Washing-machine. No. 972,736; Oct. 11; Sp. p. 2672; Gaz. vol. 159; p. 453.
Tipton, David, Glenmont, Ohio. Turn-table. No. 977,983; Dec. 6; Sp. p. 1214; Gaz. vol. 161; p. 195.
Tipton, James D., Coffeyville, Kans. Honing and stropping machine. No. 956,001; Apr. 26; Sp. p. 5007; Gaz. vol. 153; p. 885.
Tipton, Reuben L., Safford, Ala. Railway-rail bolt. No. 978,235; Dec. 13; Sp. p. 1776; Gaz. vol. 161; p. 311.
Tischbein, Willy, Hanover, Germany. Automobile-wheel. No. 956,611; May 3; Sp. p. 226; Gaz. vol. 154; p. 39.
Tischler, John, East Portchester, Conn. Riveting device. No. 948,980; Feb. 8; Sp. p. 2524; Gaz. vol. 151; p. 429.
Tischler, Victor E., Cincinnati, Ohio. Weather-strip. No. 956,002; Apr. 26; Sp. p. 5010; Gaz. vol. 153; p. 885.
Titanium Alloy Manufacturing Company, The. (See Rossi, Auguste J., assignor.)
Titherley, Charles P. L., Formby, England. Topical medicated pad. No. 967,688; Aug. 16; Sp. p. 3929; Gaz. vol. 157; p. 674.
Titus, Charles E., Springfield, Mass. Pneumatic tire for vehicles. No. 948,193; Feb. 1; Sp. p. 842; Gaz. vol. 151; p. 138.
Titus, Charles E., Springfield, Mass. Armor for tires. No. 955,831; Apr. 19; Sp. p. 4610; Gaz. vol. 153; p. 797.
Titus, Charles E., Springfield, Mass. Protective tread for pneumatic tires. No. 973,999; Oct. 25; Sp. p. 5427; Gaz. vol. 159; p. 940.
Titus, Edwin P., Mena, Ark. Rotary explosive-engine. No. 969,675; Sept. 6; Sp. p. 1108; Gaz. vol. 158; p. 178.
Titus, Henry A., Providence, R. I. Loom-shuttle. No. 966,487; Aug. 9; Sp. p. 1371; Gaz. vol. 157; p. 242.

Alphabetical list of patentees—Continued.

Titus, Henry W., New York, N. Y. Dumb-bell. No. 980,025; Dec. 27; Sp. p. 5619; Gaz. vol. 161; p. 972.
Titus, Samuel A., Cananea, Mexico. Pneumatic drill. No. 955,924; Apr. 26; Sp. p. 4843; Gaz. vol. 153; p. 857.
Titus, William H., Neodesha, Kans. Nozzle-holder. No. 954,902; Apr. 12; Sp. p. 2656; Gaz. vol. 153; p. 450.
Titus, William M., F. H. Clarkson, and J. C. Andrews, Springfield, Mass., assignors to Bay State Corset Company. Hose-supporter. No. 956,232; Apr. 26; Sp. p. 5534; Gaz. vol. 153; p. 965.
Tivy, Thomas P., St. Louis, Mo. Combination-tool. No. 953,806; Apr. 5; Sp. p. 251; Gaz. vol. 153; p. 44.
Tizley, Arthur J., assignor of one-half to J. D. Miller, New York, N. Y. Pipe attachment. No. 974,209; Nov. 1; Sp. p. 242; Gaz. vol. 160; p. 39.
Tjader, Richard, New York, N. Y. Screw-propeller. No. 955,721; Apr. 19; Sp. p. 4398; Gaz. vol. 153; p. 758.
Tjossem, John, Paullina, Iowa. Corn-harvester. No. 974,311; Nov. 1; Sp. p. 527; Gaz. vol. 160; p. 78.
Tlustos, Joseph J., Pierce, Tex. Bed-spring tightener. No. 963,663; July 5; Sp. p. 1395; Gaz. vol. 156; p. 218.
Tobelmann, Henry A., Warren, Ariz. Utilizing coke-breeze. No. 978,236; Dec. 13; Sp. p. 1777; Gaz. vol. 161; p. 312.
Tobey, Alfred J. (See Tobey, William W. and A. J.)
Tobey, Charles W. (See Giles and Tobey.)
Tobey, Fred W., Grand Rapids, Mich. Hinge and lock for box-covers. No. 959,971; May 31; Sp. p. 7686; Gaz. vol. 154; p. 1295.
Tobey, Fred W., Grand Rapids, Mich. Card-index case. No. 978,960; Dec. 20; Sp. p. 3330; Gaz. vol. 161; p. 586.
Tobey, William and A. J., Iola, Kans. Acetylene-gas generator. No. 978,511; Dec. 13; Sp. p. 2360; Gaz. vol. 161; p. 407.
Tobey, William W. and A. J., Iola, Kans. Acetylene-gas generator. No. 978,512; Dec. 13; Sp. p. 2362; Gaz. vol. 161; p. 408.
Tobias, George P., Willow Springs, Mo. Tobacco-pipe. No. 972,737; Oct. 11; Sp. p. 2674; Gaz. vol. 159; p. 453.
Tobias, Herman B., Hoboken, N. J. Vehicle-tire. No. 954,361; Apr. 5; Sp. p. 1412; Gaz. vol. 153; p. 234.
Toch, Henry M. (See Toch, Maximilian, assignor.)
Toch, Maximilian, assignor of one-half to H. M. Toch, New York, N. Y. Making waterproof Portland cement and product. No. 976,520; Nov. 22; Sp. p. 5380; Gaz. vol. 160; p. 913.
Todd, Dana. (See Todd, Martha P. and D.)
Todd, Florence H., Ishpeming, Mich. Eyeglass-holder. No. 948,713; Feb. 8; Sp. p. 1978; Gaz. vol. 151; p. 339.
Todd, Frank. (See Long and Todd.)
Todd, Frank, assignor to J. B. Long, Chicago, Ill. Radiator. No. 966,721; Aug. 9; Sp. p. 1901; Gaz. vol. 157; p. 321.
Todd, Frederick C., Philipsburg, Pa. Mine-door-operating device. No. 963,260; July 5; Sp. p. 603; Gaz. vol. 156; p. 83.
Todd, George W., Omaha, Nebr. Horse-collar. No. 959,652; May 31; Sp. p. 6971; Gaz. vol. 154; p. 1187.
Todd, Hugh, Seattle, Wash. Door and gate hanger. No. 969,005; Aug. 30; Sp. p. 6738; Gaz. vol. 157; p. 1173.
Todd, Luther N., Canton, Ill. Seed-planter. No. 953,870; Apr. 5; Sp. p. 374; Gaz. vol. 153; p. 67.
Todd, Luther N., Canton, Ill. Marking device for seed-planters. No. 974,312; Nov. 1; Sp. p. 531; Gaz. vol. 160; p. 78.
Todd, Marquis J., assignor to Buffalo Steam Roller Company, Buffalo, N. Y. Road-roller. No. 976,012; Nov. 15; Sp. p. 4221; Gaz. vol. 160; p. 715.
Todd, Martha P. and D., Minneapolis, Minn. Hand-loom. No. 975,179; Nov. 8; Sp. p. 2500; Gaz. vol. 160; p. 404.
Todd, Robert T., Lawrence, and R. B. Batty, Methuen, Mass. Finishing process. No. 956,550; May 3; Sp. p. 93; Gaz. vol. 154; p. 17.
Todd, Robert T., Lawrence, and R. B. Batty, Methuen, Mass. Cloth-finishing machine. No. 971,575; Oct. 4; Sp. p. 138; Gaz. vol. 159; p. 26.
Todd, Samuel S., Sutherland, Iowa. Minnow-trap. No. 951,157; Mar. 8; Sp. p. 1404; Gaz. vol. 152; p. 255.
Todt, Edward G., Manitowoc, Wis. Metal-cutting machine. No. 958,196; May 17; Sp. p. 3803; Gaz. vol. 154; p. 643.
Todt, Edward G., Manitowoc, Wis. Metal-cutting machine. No. 958,197; May 17; Sp. p. 3804; Gaz. vol. 154; p. 643.
Todt, Edward G., Manitowoc, Wis., assignor to J. A. Ferguson, Denver, Col. Molding-machine. No. 977,687; Dec. 6; Sp. p. 603; Gaz. vol. 161; p. 92.
Toepper, Richard, Berlin, Germany. Type-writer. No. 974,210; Nov. 1; Sp. p. 243; Gaz. vol. 160; p. 40.
Toffelmier, Lance J. (See Miller and Toffelmier.)
Togleson, Peter, Deepwater, Mo. Miner's lamp. No. 969,812; Sept. 13; Sp. p. 1447; Gaz. vol. 158; p. 251.
Tolbert, Frank T. (See Edgar, William K., assignor.)
Toledo Computing Scale Company. (See De Vilbiss, Allen, Jr., assignor.)
Toledo Computing Scale Company. (See Hansen, Niels M., assignor.)
Toledo Electric Welder Company, The. (See Buchenberg, Alvin E., assignor.)
Toledo Metal Wheel Company, The. (See Weber, John, Jr., assignor.)
Toledo Pipe Threading Machine Company, The. (See Vosper, William W., assignor.)
Toliver, James C., Ainsworth, Nebr. Stair. No. 957,817; May 10; Sp. p. 2786; Gaz. vol. 154; p. 478.
Tolles, Abraham L. (See Elliott, Schlachter, and Tolles.)
Tollinger, David C. (See Ross and Tollinger.)
Tollinger, Gertrude L., administratrix. (See Ross and Tollinger.)
Tolman, Cowles, assignor to The Holcomb Co., New Haven, Conn. Wind-shield for vehicles. No. 953,723; Apr. 5; Sp. p. 79; Gaz. vol. 153; p. 17.
Tolman, James P., Newton, and J. L. Bixby, Jr., Arlington, assignors to Samson Cordage Works, Boston, Mass. Rope for the transmission of power. No. 974,843; Nov. 8; Sp. p. 1720; Gaz. vol. 160; p. 289.
Tomahawk Iron Works. (See Drever and Kellaher, assignors.)
Tomaselli, Antonio, Cleveland, Ohio. Measuring-rule for tailors. No. 959,972; May 31; Sp. p. 7688; Gaz. vol. 154; p. 1296.
Tomcsanyi, Joseph. (See Szabo, George J., assignor.)
Tomer, John L., Export, Pa. Wagon-brake. No. 977,346; Nov. 29; Sp. p. 7191; Gaz. vol. 160; p. 1223.
Tomer, John L., Export, assignor of one-half to G. D. Hamor, New Kensington, Pa. Mechanical movement. No. 952,383; Mar. 15; Sp. p. 3863; Gaz. vol. 152; p. 692.
Tomkins, Alfred, Pittsburg, Pa. Cage for games. No. 959,973; May 31; Sp. p. 7690; Gaz. vol. 154; p. 1296.
Tomkinson, Charles C., Plainfield, N. J. Expansion-bolt. No. 958,783; May 24; Sp. p. 5151; Gaz. vol. 154; p. 868.
Tomlinson, Charles E., Syracuse, N. Y. Feed-bag. No. 980,026; Dec. 27; Sp. p. 5621; Gaz. vol. 161; p. 972.
Tomlinson, Charles E., assignor to A. T. Brown, Syracuse, N. Y. Type-writing machine. No. 949,508; Feb. 15; Sp. p. 3618; Gaz. vol. 151; p. 631.
Tomlinson, Charles E., assignor to A. T. Brown, Syracuse, N. Y. Type-writing machine. No. 949,509; Feb. 15; Sp. p. 3623; Gaz. vol. 151; p. 631.
Tomlinson, Charles E., assignor to A. T. Brown, Syracuse, N. Y. Type-writing machine. No. 952,021; Mar. 15; Sp. p. 3171; Gaz. vol. 152; p. 571.
Tomlinson, Charles J., Troy, Pa. Nut-lock. No. 948,357; Feb. 8; Sp. p. 1201; Gaz. vol. 151; p. 220.
Tomlinson, John K., Pickaway, assignor of one-third to W. W. Rittenhouse, Ronceverte, W. Va. Telephone-line-wire detacher. No. 969,676; Sept. 6; Sp. p. 1111; Gaz. vol. 158; p. 179.
Tomlinson, Joseph, Chicago, Ill., assignor to Cox Multi-Mailer Company, Augusta, Me., and New York, N. Y. Folding-machine. No. 948,117; Feb. 1; Sp. p. 700; Gaz. vol. 151; p. 114.
Tomlinson, Robert, Derby, England. Train and other diagram. No. 945,641; Jan. 4; Sp. p. 1360; Gaz. vol. 150; p. 212.
Tomlinson, Royal D., assignor to Allis-Chalmers Company, Milwaukee, Wis. Condenser. No. 978,411; Dec. 13; Sp. p. 2151; Gaz. vol. 161; p. 374.
Tompkins, Caroline B., Jersey City, assignor of one-fourth to L. Myles, Bayonne, N. J. Washboard. No. 973,320; Oct. 18; Sp. p. 3985; Gaz. vol. 159; p. 682.
Tompkins, Daniel A. (See Asbury, Orla F., assignor.)
Tompkins, Edward D., Pelham, N. Y. Pile-driving machine. No. 962,080; June 21; Sp. p. 3840; Gaz. vol. 155; p. 673.
Tompkins, Franklin, New Dorp, N. Y. Rotary engine. No. 949,510; Feb. 15; Sp. p. 3628; Gaz. vol. 151; p. 632.
Tompkins, Franklin, New Dorp, N. Y. Vehicle-wheel. No. 962,066; June 21; Sp. p. 3612; Gaz. vol. 155; p. 667.
Tompkins, John D., Valatie, N. Y. Rough pulper. No. 969,998; Sept. 13; Sp. p. 1850; Gaz. vol. 158; p. 315.
Tompkins, John D., Valatie, N. Y. Cleaning old paper-stock. No. 972,294; Oct. 11; Sp. p. 1703; Gaz. vol. 159; p. 299.
Tompkins, John D., Valatie, N. Y. Apparatus for drying paper. No. 976,948; Nov. 29; Sp. p. 6331; Gaz. vol. 160; p. 1085.
Tompkins, Wallace W., Newburgh, N. Y. Tire-armor. No. 954,362; Apr. 5; Sp. p. 1413; Gaz. vol. 153; p. 235.
Tomppert, Henry A., Birmingham, Ala. Bottle-cooler. No. 954,598; Apr. 12; Sp. p. 1925; Gaz. vol. 153; p. 342.
Tompsett, Charles, Omaha, Nebr. Collar-fastener. No. 965,668; July 26; Sp. p. 5774; Gaz. vol. 156; p. 983.
Tone, Frank J., Niagara Falls, N. Y. Heating carbon. No. 961,912; June 21; Sp. p. 3475; Gaz. vol. 155; p. 615.
Tone, Frank J., Niagara Falls, N. Y. Reduction of refractory compounds. No. 961,913; June 21; Sp. p. 3477; Gaz. vol. 155; p. 615.
Tone, Frank J., Niagara Falls, N. Y. Graphite article and making the same. No. 977,984; Dec. 6; Sp. p. 1216; Gaz. vol. 161; p. 195.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Production of silicon carbid. No. 949,386; Feb. 15; Sp. p. 3391; Gaz. vol. 151; p. 592.
Tone, Frank J., assignor to Carborundum Company, Niagara Falls, N. Y. Making silicon carbid. No. 965,142; July 19; Sp. p. 4624; Gaz. vol. 156; p. 771.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Carborundum abrasive article. No. 978,679; Dec. 13; Sp. p. 2738; Gaz. vol. 161; p. 466.
Tonge, James. (See Barnett, Samuel, assignor.)
Tonge, John, assignor of one-half to J. I. Dille, Minneapolis, Minn. Throttle-valve. No. 960,735; June 7; Sp. p. 1005; Gaz. vol. 155; p. 169.

Alphabetical list of patentees—Continued.

Tonnar, John B., Clayton, Wash. Electrical block train-control system. No. 961,177; June 14; Sp. p. 1888; Gaz. vol. 155; p. 343.

Tonne, William H., Trenton, N. J. Automobile-headlight. No. 952,055; Mar. 15; Sp. p. 3238; Gaz. vol. 152; p. 583.

Toohey, Patrick W., assignor to The Sterling Novelty Company, Colorado Springs, Colo. Coaster-brake. No. 960,736; June 7; Sp. p. 1006; Gaz. vol. 155; p. 169.

Toole, Edward, Gloucester City, N. J. Belt-lacing machine. No. 967,083; Aug. 9; Sp. p. 2694; Gaz. vol. 157; p. 442.

Toole, Edward, and J. H. MacLennan, Gloucester City, N. J. Machine for making artificial-stone blocks. No. 963,833; July 12; Sp. p. 1816; Gaz. vol. 156; p. 299.

Toomer, Nancy, Fitzgerald, Ga. Envelop. No. 956,786; May 3; Sp. p. 609; Gaz. vol. 154; p. 98.

Toomey, John A., Santa Monica, Cal. Adding-machine. No. 973,727; Oct. 25; Sp. p. 4858; Gaz. vol. 159; p. 845.

Toomey, Michael H., Greenfield, Mass. Dental instrument. No. 973,894; Oct. 25; Sp. p. 5213; Gaz. vol. 159; p. 904.

Toops, Emory D., assignor of one-half to C. B. Clarke, Indianapolis, Ind. Vehicle-spring support. No. 974,313; Nov. 1; Sp. p. 534; Gaz. vol. 160; p. 79.

Toothaker, Mary E., Olathe, Colo. Window-sash fastener. No. 966,063; Aug. 2; Sp. p. 478; Gaz. vol. 157; p. 77.

Töpfer, Max, Rittergut, Grosszschocher, near Leipzig, Germany. Drying or condensing apparatus. No. 953,807; Apr. 5; Sp. p. 253; Gaz. vol. 153; p. 45.

Topliff, Myron, Wallace, Idaho. Rail-spike. No. 956,233; Apr. 26; Sp. p. 5535; Gaz. vol. 153; p. 966.

Topp, Ethel B., Memphis, Tenn. Lifter. No. 955,722; Apr. 19; Sp. p. 4401; Gaz. vol. 153; p. 759.

Topp, Orla, Copenhagen, Denmark, assignor to I. Gluck, New York, N. Y. Wiring bottles. No. 948,286; Feb. 1; Sp. p. 1037; Gaz. vol. 151; p. 170.

Topping, Alfred S., Muskegon, Mich. Railway-tie. No. 950,970; Mar. 1; Sp. p. 1064; Gaz. vol. 152; p. 170.

Topping, Edward W., deceased, Ashland, Ohio; W. V. B. Topping, administrator. Track for door-hangers. No. 963,261; July 5; Sp. p. 605; Gaz. vol. 156; p. 84.

Topping, W. V. B., administrator. (See Topping, Edward W.)

Toppino, Charles, Jr. (See De Rochemont, Perkins H., assignor.)

Torango, Joseph, Portland, Oreg. Box. No. 973,321; Oct. 18; Sp. p. 3987; Gaz. vol. 159; p. 682.

Torbrand, Peter R., Denver, Colo. Flying-machine. No. 970,974; Sept. 20; Sp. p. 3901; Gaz. vol. 158; p. 667.

Torbron, Orin F., Bellville, Tex. Triple valve. No. 965,608; July 26; Sp. p. 5657; Gaz. vol. 156; p. 962.

Torchebeuf, Charles, and E. de Lanneau, Paris, France. Carbureting-lamp. No. 958,045; May 17; Sp. p. 3453; Gaz. vol. 154; p. 591.

Torchebeuf, Charles, and E. de Lanneau, Paris, France. Carbureting-lamp. No. 973,240; Oct. 18; Sp. p. 3830; Gaz. vol. 159; p. 655.

Torchio, Philip, New York, N. Y. Insulating-covering for cables. No. 958,046; May 17; Sp. p. 3454; Gaz. vol. 154; p. 591.

Torjusen, Carsten E., and W. Idstrom, New Orleans, La. Apparatus for separating gravel from sand, &c. No. 958,565; May 17; Sp. p. 4687; Gaz. vol. 154; p. 770.

Tormin, Egmont M., Newton, assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Electrically-operated signaling-horn. No. 976,159; Nov. 22; Sp. p. 4552; Gaz. vol. 160; p. 787.

Tornquist, Jonas E. (See Raschick and Tornquist.)

Tornyay-Schosberger, Rudolf, Budapest, Austria-Hungary. Manufacturing cement. No. 954,658; Apr. 12; Sp. p. 2069; Gaz. vol. 153; p. 364.

Torok, Julius, Renovo, Pa. Water-gage. No. 952,999; Mar. 22; Sp. p. 5183; Gaz. vol. 152; p. 930.

Torpey, Brown and Starks. (See Torpey, Joseph W., assignor.)

Torpey, Joseph W., Louisville, assignor to Torpey, Brown and Starks, Cleaton, Ky. Switch stand and lock. No. 949,098; Feb. 15; Sp. p. 2774; Gaz. vol. 151; p. 493.

Torpey, Joseph W., Louisville, assignor to Torpey, Brown and Starks, Cleaton, Ky. High rotary switch-stand. No. 952,022; Mar. 15; Sp. p. 3175; Gaz. vol. 152; p. 571.

Torpy, Hubert L. J., Jolimont, Melbourne, Victoria, Australia. Apparatus for filling bottles with aerated liquids and beverages. No. 968,898; Aug. 30; Sp. p. 6535; Gaz. vol. 157; p. 1138.

Torrance, Charles A., Gibbon, Nebr. Mold for cement blocks and walls. No. 953,647; Mar. 29; Sp. p. 6593; Gaz. vol. 152; p. 1178.

Torre, Frank D., Baltimore, Md. Violin-bow. No. 958,784; May 24; Sp. p. 5151; Gaz. vol. 154; p. 868.

Torrens, Scott, Gloversville, assignor to A. Travis and M. Oczko, Johnstown, N. Y. Hide-treating machine. No. 972,415; Oct. 11; Sp. p. 1952; Gaz. vol. 159; p. 342.

Torrens, William, New York, N. Y. Life-guard for railway-cars. No. 973,393; Oct. 18; Sp. p. 4149; Gaz. vol. 159; p. 707.

Torres y Quevedo, Leonardo, Madrid, Spain. Funicular-railway system and car or vehicle therefor. No. 979,228; Dec. 20; Sp. p. 3946; Gaz. vol. 161; p. 681.

Torris Wold & Company. (See Odquist and Lyche, assignors.)

Torseth, Oscar, Eau Claire, Wis. Device for conveying logs. No. 966,488; Aug. 9; Sp. p. 1374; Gaz. vol. 157; p. 242.

Torseth, Oscar, Eau Claire, Wis. Device for conveying logs. No. 966,489; Aug. 9; Sp. p. 1377; Gaz. vol. 157; p. 243.

Tortorice, Antonino. (See Williams and Tortorice.)

Tosco, Agostino, San Francisco, Cal. Aerating liquors. No. 948,831; Feb. 8; Sp. p. 2235; Gaz. vol. 151; p. 378.

Tosco, Agostino, San Francisco, Cal. Hand soldering-machine. No. 957,636; May 10; Sp. p. 2413; Gaz. vol. 154; p. 417.

Tosi, Alessandro. (See Bellini and Tosi.)

Toso, Marcellino, San Bruno, Cal. Disappearing-top desk. No. 947,359; Jan. 25; Sp. p. 5236; Gaz. vol. 150; p. 882.

Toth, Emil, Chicago, Ill. Preparing a preserved-meat compound. No. 949,336; Feb. 15; Sp. p. 3262; Gaz. vol. 151; p. 573.

Toth, John, Bartonville, Ill. Beehive. No. 945,642; Jan. 4; Sp. p. 1362; Gaz. vol. 150; p. 212.

Tóth, Joseph, A. Beleznay, and J. Liptak, Pittsburg, Pa. Spring bed-bottom. No. 972,040; Oct. 4; Sp. p. 1162; Gaz. vol. 159; p. 195.

Tothill, William S., Chicago, Ill. Hurdle. No. 974,613; Nov. 1; Sp. p. 1218; Gaz. vol. 160; p. 188.

Totman, Jeremy R., Colusa, Cal. Grass-burning machine. No. 951,034; Mar. 1; Sp. p. 1164; Gaz. vol. 152; p. 190.

Totten, Robert C., Pittsburg, Pa. Cast metal. No. 947,263; Jan. 25; Sp. p. 4986; Gaz. vol. 150; p. 847.

Tottingham, Fred M., New York, assignor of one-half to E. J. Moneuse, Sheepshead Bay Station, Brooklyn, N. Y. Time-controlled electric switch. No. 961,558; June 14; Sp. p. 2723; Gaz. vol. 155; p. 473.

Totty, M. W., *et al.* (See Reed, Rufus C., assignor.)

Toulmin, Harry A. (See Myers and Toulmin.)

Tournier, Julius C., Schenectady, N. Y., assignor to General Electric Company. Cluster-socket. No. 953,362; Mar. 29; Sp. p. 6000; Gaz. vol. 152; p. 1079.

Tourtel, John M., London, England. Diaphragm-controller for gas-lighting purposes. No. 966,371; Aug. 2; Sp. p. 1092; Gaz. vol. 157; p. 176.

Tourtel, John M., London, England. Adding-machine. No. 969,223; Sept. 6; Sp. p. 171; Gaz. vol. 158; p. 28.

Tourtellotte, Sarah J., South Hadley, Mass. Steamer for culinary use. No. 968,715; Aug. 30; Sp. p. 6161; Gaz. vol. 157; p. 1076.

Tousignant, Edmund J., Wallace, Idaho. Manifolding device. No. 958,566; May 17; Sp. p. 4689; Gaz. vol. 154; p. 770.

Tousley, N. E. (See Duncan and Tousley.)

Toward, Alexander, Meadow Lands, Pa. Cuspidor. No. 964,339; July 12; Sp. p. 2841; Gaz. vol. 156; p. 468.

Tower, Clinton A., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 947,745; Jan. 25; Sp. p. 6058; Gaz. vol. 150; p. 1010.

Tower, Clinton A., assignor to The National Malleable Castings Company, Cleveland, Ohio. Friction draft-rigging. No. 962,993; June 28; Sp. p. 5769; Gaz. vol. 155; p. 1010.

Tower, Clinton A., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 969,575; Sept. 6; Sp. p. 909; Gaz. vol. 158; p. 144.

Tower, Daniel W., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. No. 949,861; Feb. 22; Sp. p. 4381; Gaz. vol. 151; p. 784.

Tower, Daniel W., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. No. 949,862; Feb. 22; Sp. p. 4382; Gaz. vol. 151; p. 785.

Towle, Arlen H., Lansing, Mich. Vehicle-wheel. No. 951,384; Mar. 8; Sp. p. 1879; Gaz. vol. 152; p. 328.

Town, Frederic E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Mobile circuit-closer. No. 968,208; Aug. 23; Sp. p. 5062; Gaz. vol. 157; p. 873.

Towne, John M., and P. E. Gibson, Tampa, Fla. Ship-hull cleaner. No. 974,000; Oct. 25; Sp. p. 5429; Gaz. vol. 159; p. 941.

Towne, Joseph M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Manufacturing gaskets. No. 966,873; Aug. 9; Sp. p. 2262; Gaz. vol. 157; p. 371.

Towne, Robert S., New York, N. Y. Apparatus for agitating liquid material. No. 952,222; Mar. 15; Sp. p. 3553; Gaz. vol. 152; p. 639.

Towner, Reed C., Fairport, Kans. Grain-header. No. 959,819; May 31; Sp. p. 7329; Gaz. vol. 154; p. 1242.

Towns, Ulysses A., Harrison county, Mo. Sanitary dairy-pail. No. 972,295; Oct. 11; Sp. p. 1705; Gaz. vol. 159; p. 300.

Townsell, Patrick J., Parkersburg, W. Va. Casing and tubing hook. No. 972,416; Oct. 11; Sp. p. 1953; Gaz. vol. 159; p. 342.

Townsend, Charles H., Berkeley, Cal. Card-display apparatus. No. 946,288; Jan. 11; Sp. p. 2809; Gaz. vol. 150; p. 468.

Townsend, Charles W., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Electric pump-governor. No. 965,609; July 26; Sp. p. 5663; Gaz. vol. 156; p. 963.

Alphabetical list of patentees—Continued.

Townsend, Clinton P., Washington, D. C., assignor to The Development and Funding Company, New York, N. Y. Electrolytic decomposition of solutions. No. 972,947; Oct. 18; Sp. p. 3182; Gaz. vol. 159; p. 554.
Townsend, Edward J. (See Noad, James, assignor.)
Townsend, Elvin E., Oakland, Cal. Valve-seat grinder. No. 959,653; May 31; Sp. p. 6973; Gaz. vol. 154; p. 1187.
Townsend, Emory L., Los Angeles, Cal. Artificial tooth. No. 952,155; Mar. 15; Sp. p. 3424; Gaz. vol. 152; p. 615.
Townsend, James H., Gloversville, N. Y. Hat-shield. No. 954,708; Apr. 12; Sp. p. 2174; Gaz. vol. 153; p. 380.
Townsend, James R., *et al.* (See Newcomb, David L., assignor.)
Townsend, Jesse E., Richmond, Ind. Stock-waterer. No. 972,738; Oct. 11; Sp. p. 2677; Gaz. vol. 159; p. 454.
Townsend, Robert D., Chicago, Ill. Rail-supporting mechanism. No. 970,139; Sept. 13; Sp. p. 2125; Gaz. vol. 158; p. 362.
Townsend, Samuel P., Orange, N. J. Grease-gun. No. 971,939; Oct. 4; Sp. p. 935; Gaz. vol. 159; p. 159.
Towson, Morris S. (See Muehlhauser, Martin W., assignor.)
Toynbee, Joseph C., Glen Osborne, Pa. Folding tray. No. 977,239; Nov. 29; Sp. p. 6985; Gaz. vol. 160; p. 1187.
Toyoda, Sakichi, Shimasaki-Cho, Nagoya, Japan. Automatic shuttle-changing mechanism. No. 952,652; Mar. 22; Sp. p. 4469; Gaz. vol. 152; p. 813.
Toyoda, Sakichi, Shimasaki-Cho, Nagoya, Japan. Picker-check for looms. No. 962,802; June 28; Sp. p. 5416; Gaz. vol. 155; p. 946.
Trabue, William H., Montvale, N. J. Overshoe for horses. No. 979,602; Dec. 27; Sp. p. 4726; Gaz. vol. 161; p. 829.
Trachte, Arthur F. (See Trachte, George A. and A. F.)
Trachte, George A. and A. F., Madison, Wis. Galvanized-iron tank. No. 956,908; May 3; Sp. p. 895; Gaz. vol. 154; p. 141.
Tracy, Joseph H., Philadelphia, Pa. System of electrical distribution. No. 978,513; Dec. 13; Sp. p. 2364; Gaz. vol. 161; p. 408.
Tracy, Joseph H., Philadelphia, Pa. System of electrical distribution. No. 978,514; Dec. 13; Sp. p. 2366; Gaz. vol. 161; p. 408.
Tracy, Joseph P., Detroit, Mich. Display frame and easel. No. 951,294; Mar. 8; Sp. p. 1685; Gaz. vol. 152; p. 298.
Tracy, Thomas H., Vancouver, British Columbia, Canada. Surveyor's measuring-line. No. 950,581; Mar. 1; Sp. p. 249; Gaz. vol. 152; p. 41.
Tracy, William D., New York, N. Y. Dental appliance. No. 969,922; Sept. 13; Sp. p. 1682; Gaz. vol. 158; p. 290.
Traeber, Ewald, and R. Holtkott, Badburg, Germany. Manufacture of linoleum and the like. No. 949,863; Feb. 22; Sp. p. 4386; Gaz. vol. 151; p. 785.
Trafford, Wesley, New York, N. Y. Speed-indicator. No. 961,559; June 14; Sp. p. 2727; Gaz. vol. 155; p. 473.
Trafton, Leigh B., Limestone, Me. Overshoe. No. 965,127; July 19; Sp. p. 4588; Gaz. vol. 156; p. 766.
Traher, Wilfred C., London, Ontario, Canada. Book-holder. No. 959,405; May 24; Sp. p. 6435; Gaz. vol. 154; p. 1077.
Traher, Wilfred C., London, Ontario, Canada. Loose-leaf binder. No. 962,868; June 28; Sp. p. 5545; Gaz. vol. 155; p. 969.
Trahin, Frank A., Gillespie, Ill. Wrench. No. 971,325; Sept. 27; Sp. p. 4630; Gaz. vol. 158; p. 811.
Trainer, Edward T., Portsmouth, Ohio. Railway rail or track. No. 946,411; Jan. 11; Sp. p. 3167; Gaz. vol. 150; p. 510.
Trainer, Ernst, Dresden, assignor to Gewerkschaft Pionier, Walsum-on-the-Rhine, Germany. Manufacture of fuel-blocks. No. 974,001; Oct. 25; Sp. p. 5431; Gaz. vol. 159; p. 941.
Trainer, Ernst, Langen, and W. Haage, Walsum, Germany. Manufacture of briquets. No. 969,504; Sept. 6; Sp. p. 748; Gaz. vol. 158; p. 118.
Traliot, Arnold, Lexington, Ky. Railway-tie. No. 952,693; Mar. 22; Sp. p. 4554; Gaz. vol. 152; p. 827.
Trambley, Joseph A., Maxbass, N. D. Portable fence. No. 973,589; Oct. 25; Sp. p. 4560; Gaz. vol. 159; p. 796.
Trambley, Joseph A., Maxbass, N. D. Wrench. No. 974,725; Nov. 1; Sp. p. 1469; Gaz. vol. 160; p. 226.
Trambley, Joseph A., Maxbass, N. D. Wrench. No. 974,726; Nov. 1; Sp. p. 1470; Gaz. vol. 160; p. 226
Trammell, Sidney M., Washington, D. C. Combined valve-cutter and valve-seat reamer. No. 965,049; July 19; Sp. p. 4450; Gaz. vol. 156; p. 741.
Tran, Frank J., and F. Cais, Cleveland, Ohio. Workman's time-recorder. No. 979,108; Dec. 20; Sp. p. 3677; Gaz. vol. 161; p. 638.
Transom, Charles F., Brooklyn, N. Y. Ceiling and floor construction. No. 947,590; Jan. 25; Sp. p. 5771; Gaz. vol. 150; p. 959.
Transportation Appliance Corporation. (See Schenck, Charles, assignor.)
Trapp, Charles L., South Omaha, and O. C. Gehrman, assignors of one-fourth to F. J. Meyers, Omaha, Nebr. Metallic rod-packing. No. 965,255; July 26; Sp. p. 4860; Gaz. vol. 156; p. 839.
Trapp, Emery E., Sioux City, Iowa. Safety device for refrigerating-machines. No. 949,555; Feb. 15; Sp. p. 3719; Gaz. vol. 151; p. 647.
Trarbaugh, August, Iowa City, Iowa. Draft-regulator. No. 951,430; Mar. 8; Sp. p. 1970; Gaz. vol. 152; p. 343.
Trask, George E., New Haven, Conn. Registering-bank. No. 966,140; Aug. 2; Sp. p. 615; Gaz. vol. 157; p. 101.
Trask, George F. D. (See Everson and Trask.)
Trask, Wilber C., New Orleans, La. Harness-saddle. No. 948,081; Feb. 1; Sp. p. 631; Gaz. vol. 151; p. 102.
Trattner, Rudolph F., Peru, Ill. Packing for rotary pumps or motors. No. 948,534; Feb. 8; Sp. p. 1586; Gaz. vol. 151; p. 279.
Traub, Charles, and J. W. Helfrecht, Galeton, Pa. Culvert construction. No. 964,585; July 19; Sp. p. 3410; Gaz. vol. 156; p. 582.
Traub, Emil, Newark, N. J., assignor to The Singer Manufacturing Company. Finishing-tool. No. 974,932; Nov. 8; Sp. p. 1935; Gaz. vol. 160; p. 320.
Traub, Emil, Newark, N. J., assignor to The Singer Manufacturing Company. Cam mechanism. No. 977,488; Dec. 6; Sp. p. 136; Gaz. vol. 161; p. 23.
Traubenberg, Johann W. R. von, Reval, Russia. Rotary press. No. 970,575; Sept. 20; Sp. p. 3053; Gaz. vol. 158; p. 531.
Traut, George W. (See Hine, Henry C., assignor.)
Traut & Hine Manufacturing Company. (See Humphrey, Ernest N., assignor.)
Trautman, Walter G., Cleveland, Ohio. Massage-machine. No. 968,209; Aug. 23; Sp. p. 5066; Gaz. vol. 157; p. 873.
Trautmann, Henry J., and J. L. Copping, London, England. Device for varying chimney-draft. No. 957,273; May 10; Sp. p. 1688; Gaz. vol. 154; p. 295.
Trautmann, Martha von, New York, N. Y. Atomizer. No. 970,576; Sept. 20; Sp. p. 3056; Gaz. vol. 158; p. 532.
Trautner, George W., *et al.* (See Trautner, Nicholas W., assignor.)
Trautner, J. R., *et al.* (See Trautner, Nicholas W., assignor.)
Trautner, Nicholas W., assignor of two-fiftieths to G. W. Trautner, fifteen-fiftieths to H. C. Kohn, and fifteen-fiftieths to J. R. Trautner, Red Wing, Minn. Bolt. No. 954,481; Apr. 12; Sp. p. 1673; Gaz. vol. 153; p. 303.
Trautschold, Reginald, Montclair, N. J., assignor to Intercontinental Engineering Company, New York, N. Y. Manually-operated check-valve. No. 967,465; Aug. 16; Sp. p. 3478; Gaz. vol. 157; p. 600.
Trautvetter, William G., Paterson, N. J. Tile-trimming machine. No. 961,560; June 14; Sp. p. 2735; Gaz. vol. 155; p. 474.
Traver, Frank A. (See Carstens, Charles B., assignor.)
Traver, Philip C., Far Rockaway, N. Y., assignor to Pearsall-Traver Manufacturing Company. Antiskidding device for wheel-tires. No. 969,425; Sept. 6; Sp. p. 585; Gaz. vol. 158; p. 93.
Traver, Philip C., Far Rockaway, N. Y., assignor to Pearsall-Traver Manufacturing Company. Antiskidding-device coupling. No. 969,426; Sept. 6; Sp. p. 587; Gaz. vol. 158; p. 94.
Traves, Webester F., assignor to J. McMyler, Cleveland, Ohio. Switch-stand. No. 950,252; Feb. 22; Sp. p. 5255; Gaz. vol. 151; p. 922.
Travis, Alburtus, *et al.* (See Torrens, Scott, assignor.)
Travis, Don C., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Folding couch. No. 945,821; Jan. 11; Sp. p. 1808; Gaz. vol. 150; p. 303.
Travis, Norton C., Brooklyn, N. Y. Moving-picture camera. No. 978,077; Dec. 6; Sp. p. 1407; Gaz. vol. 161; p. 227.
Traylor, Samuel W., Allentown, Pa. Rotary screen. No. 957,818; May 10; Sp. p. 2787; Gaz. vol. 154; p. 478.
Traylor, Samuel W., Allentown, Pa., assignor to M. P. Schantz, trustee. Stay or support for water-jackets. No. 960,737; June 7; Sp. p. 1009; Gaz. vol. 155; p. 169.
Treadway, Charles R. (See Byrd and Treadway.)
Treahy, Bartholomew T., Detroit, Mich. Pneumatic action. No. 968,291; Aug. 23; Sp. p. 5245; Gaz. vol. 157; p. 903.
Tréand, Albert, Nominingue, Quebec, Canada. Pipe-wrench. No. 956,453; Apr. 26; Sp. p. 5997; Gaz. vol. 153; p. 1041.
Treanor, James J., New York, N. Y. Amusement device. No. 956,838; May 3; Sp. p. 734; Gaz. vol. 154; p. 116.
Treat, Francis H., Cleveland, Ohio. Gas-producing apparatus. No. 975,657; Nov. 15; Sp. p. 3521; Gaz. vol. 160; p. 594.
Treber, Reuben, Portland, Oreg. Cash-register. No. 954,363; Apr. 5; Sp. p. 1414; Gaz. vol. 153; p. 235.
Treber, Reuben, Portland, Oreg. Cash-register. No. 975,735; Nov. 15; Sp. p. 3678; Gaz. vol. 160; p. 620.
Treece, George W., Reedley, Cal. Churn. No. 949,864; Feb. 22; Sp. p. 4388; Gaz. vol. 151; p. 786.
Treese, Albert L., Jennings, Okla. Cotton-cleaner. No. 978,237; Dec. 13; Sp. p. 1778; Gaz. vol. 161; p. 312.
Treffer, Henry H., Davenport, Iowa. Show-window gutter and flashing. No. 947,656; Jan. 25; Sp. p. 5913; Gaz. vol. 150; p. 982.
Tregoning, Alfred, Los Angeles, Cal. Eraser-tip for pencils. No. 977,762; Dec. 6; Sp. p. 759; Gaz. vol. 161; p. 118.
Tregoning Electric Manufacturing Company, The. (See Tregoning, William C., assignor.)

Alphabetical list of patentees—Continued.

Tregoning, William C., Cleveland, Ohio. Socket-support for electric lamps. No. 966,623; Aug. 9; Sp. p. 1692; Gaz. vol. 157; p. 288.

Tregoning, William C., assignor to The Tregoning Electric Manufacturing Company, Cleveland, Ohio. Electric-lamp socket and securing means therefor. No. 966,966; Aug. 9; Sp. p. 2442; Gaz. vol. 157; p. 402.

Treibacher Chemische Werke Gesellschaft m. b. H. (See Welsbach, Carl A. von, assignor.)

Treier, Oscar, New York, N. Y. Vehicle-wheel. No. 976,710; Nov. 22; Sp. p. 5770; Gaz. vol. 160; p. 977.

Trejos, Matias, San José, Costa Rica. Type-writer keyboard. No. 964,340; July 12; Sp. p. 2842; Gaz. vol. 156; p. 469.

Tremaine, Edward G., Hackensack, assignor to Automatic Weighing Machine Company, Jersey City, N. J. Relay mechanism. No. 966,624; Aug. 9; Sp. p. 1694; Gaz. vol. 157; p. 289.

Tremblay, Frank. (See Page and Tremblay.)

Tremblay, Joseph, assignor of one-half to G. C. Frye, St. Johnsbury, Vt. Box-opener. No. 951,890; Mar. 15; Sp. p. 2920; Gaz. vol. 152; p. 528.

Trenaman, John V., Newark, N. J. Electric dental engine. No. 955,484; Apr. 19; Sp. p. 3850; Gaz. vol. 153; p. 677.

Trenchard, Marshall F. (See Lamphier and Trenchard.)

Trenkamp Stove & Manufacturing Company, The. (See Geurink, Bernard A., assignor.)

Trenor, John, assignor to C. Duckworth, Colne, England. Apparatus for making, stamping, and cutting lozenges. No. 952,965; Mar. 22; Sp. p. 5117; Gaz. vol. 152; p. 919.

Trent, Lamartine C., East Auburn, Cal. Apparatus for separating solids from liquids. No. 952,590; Mar. 22; Sp. p. 4321; Gaz. vol. 152; p. 791.

Trent, Lamartine C., Auburn, Cal. Centrifugal separating apparatus. No. 952,653; Mar. 22; Sp. p. 4476; Gaz. vol. 152; p. 814.

Trent, Lamartine C., East Auburn, Cal. Centrifugal separating washing apparatus. No. 978,238; Dec. 13; Sp. p. 1780; Gaz. vol. 161; p. 312.

Trenton Potteries Company, The. (See Whitehead, Edwin J., assignor.)

Trepel, Adam A., New York, N. Y. Combined table and chair. No. 950,253; Feb. 22; Sp. p. 5256; Gaz. vol. 151; p. 922.

Trephagen, Charles M. (See Moores, Charles H., assignor.)

Tresidder, John J., New York, assignor to Acme Column Company, Brooklyn, N. Y. Fireproof column. No. 960,125; May 31; Sp. p. 8023; Gaz. vol. 154; p. 1347.

Tresise, Victor E., *et al.* (See Mieth, Otto F., assignor.)

Tress, Paul G., Amarillo, Tex. Sand-screen. No. 973,895; Oct. 25; Sp. p. 5215; Gaz. vol. 159; p. 904.

Trethewey, Wilbert I., Boston, Mass. Strap pipe-vise. No. 975,001; Nov. 8; Sp. p. 2113; Gaz. vol. 160; p. 344.

Trevellian, Frederic H., Wellington, New Zealand. Cash-register. No. 955,016; Apr. 12; Sp. p. 2878; Gaz. vol. 153; p. 488.

Trevellian, Frederick H., Wellington, New Zealand. Cash-register. No. 957,918; May 17; Sp. p. 3028; Gaz. vol. 154; p. 543.

Trevillian, William J. (See Resh and Trevillian.)

Trewhella, Benjamin. (See Trewhella, William, assignor.)

Trewhella, William, assignor to himself and B. Trewhella, Trentham, Victoria, Australia. Roller-grip for band-gearing. No. 952,156; Mar. 15; Sp. p. 3424; Gaz. vol. 152; p. 615.

Trewick, Roger, administrator. (See Trewick, Roger L.)

Trewick, Roger L., deceased, San Francisco, Cal.; R. Trewick, administrator. Machine for making sugar wafers and the like. No. 967,147; Aug. 9; Sp. p. 2836; Gaz. vol. 157; p. 465.

Trexel, Forest, assignor of one-half to Sunnyside Coal Company, Johnstown, Pa. Car-brake. No. 968,292; Aug. 23; Sp. p. 5246; Gaz. vol. 157; p. 903.

Tribby, Edgar C., Kansas, Ill. Hog-ringer. No. 968,611; Aug. 30; Sp. p. 5905; Gaz. vol. 157; p. 1041.

Tribune Trap & Target Company, The. (See Lord, Hugh C., assignor.)

Trick, Philip, Crestline, Ohio. Baling-press. No. 978,078; Dec. 6; Sp. p. 1408; Gaz. vol. 161; p. 227.

Trickle, Joseph, *et al.* (See Miller, Fred W., assignor.)

Triebling, Alfred. Neu Sandec, Austria-Hungary. Color-box. No. 976,317; Nov. 22; Sp. p. 4947; Gaz. vol. 160; p. 843.

Trierweiler, William, Aurora, Ill. Combination-padlock. No. 967,466; Aug. 16; Sp. p. 3479; Gaz. vol. 157; p. 600.

Trigger, Theodore C., St. Thomas, Ontario, Canada. Tooth-swage. No. 953,072; Mar. 29; Sp. p. 5349; Gaz. vol. 152; p. 984.

Triggs, James M. (See Smith, Willis D., assignor.)

Trigwell, James R., Mitcham Lane, England. Gearing. No. 961,561; June 14; Sp. p. 2738; Gaz. vol. 155; p. 474.

Trillich, Heinrich, Munich, Germany. Extracting caffein. No. 950,357; Feb. 22; Sp. p. 5447; Gaz. vol. 151; p. 955.

Trillich, Heinrich, Munich, Germany. Extracting caffein from coffee. No. 953,073; Mar. 29; Sp. p. 5349; Gaz. vol. 152; p. 984.

Trillich, Heinrich, Munich, Germany. Extracting caffein from whole coffee-beans. No. 953,074; Mar. 29; Sp. p. 5351; Gaz. vol. 152; p. 984.

Trillich, Heinrich, Munich, Germany. Extracting caffein from coffee. No. 964,944; July 19; Sp. p. 4233; Gaz. vol. 156; p. 707.

Trimbach, Joseph C., and C. G. Allhoff, Dayton, Ohio. Job-printing press. No. 961,562; June 14; Sp. p. 2740; Gaz. vol. 155; p. 475.

Trimble, A. E., *et al.* (See Fuller, Henry W., assignor.)

Trimble, John E., Albany, assignor of one-half to J. H. Leffler, Muncie, Ind. Reclining-chair. No. 948,029; Feb. 1; Sp. p. 518; Gaz. vol. 151; p. 84.

Trimble, William D., Hampton, Va., assignor of one-half to A. L. Cummings, Melvale, Md. Toy projectile. No. 954,404; Apr. 5; Sp. p. 1496; Gaz. vol. 153; p. 249.

Trimmer, Charles B., assignor of one-half to A. Bouchet, Roselle, N. J. Adjustable hinge. No. 947,168; Jan. 18; Sp. p. 4763; Gaz. vol. 150; p. 785.

Trinaistich, Matt, Trinidad, Colo. Brick-handling appliance. No. 947,403; Jan. 25; Sp. p. 5347; Gaz. vol. 150; p. 896.

Triner, James M., Chicago, Ill. Weighing-scale. No. 946,289; Jan. 11; Sp. p. 2810; Gaz. vol. 150; p. 468.

Trini, Anton, assignor to C. P. and F. P. Weil, Chicago, Ill. Loose-leaf binder. No. 954,063; Apr. 5; Sp. p. 765; Gaz. vol. 153; p. 133.

Trinity Electric Clock Company. (See Granz, Joseph, assignor.)

Trinks, Charles L. W. (See Gibson and Trinks.)

Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 953,242; Mar. 29; Sp. p. 5732; Gaz. vol. 152; p. 1039.

Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 975,180; Nov. 8; Sp. p. 2502; Gaz. vol. 160; p. 405.

Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 979,358; Dec. 20; Sp. p. 4187; Gaz. vol. 161; p. 723.

Trio Manufacturing Company. (See Leveen and Martin, assignors.)

Tripke, Paul, Jersey City, N. J. Store-service apparatus. No. 949,865; Feb. 22; Sp. p. 4390; Gaz. vol. 151; p. 786.

Triplett, Frank J. and W. N., Maxwell, Cal. Harvester. No. 952,384; Mar. 15; Sp. p. 3865; Gaz. vol. 152; p. 692.

Triplett, William N. (See Triplett, Frank J. and W. N.)

Trippensee, William F., Detroit, Mich. Ticket-vending machine. No. 973,896; Oct. 25; Sp. p. 5216; Gaz. vol. 159; p. 905.

Trippensee, William F., assignor to L. Wilcke, Detroit, Mich. Coin-tester. No. 953,363; Mar. 29; Sp. p. 6001; Gaz. vol. 152; p. 1079.

Tripplehorn, David R., Findlay, Ohio. Compressed-air motor for pumps. No. 955,296; Apr. 19; Sp. p. 3451; Gaz. vol. 153; p. 613.

Triquet, Paul G., Paris, France, assignor to Perfectionnements aux Lampes à Filaments Metalliques, Société Anonyme, Brussels, Belgium. Manufacturing the hooks intended to support the filaments of electric incandescent lamps. No. 967,084; Aug. 9; Sp. p. 2697; Gaz. vol. 157; p. 443.

Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Electromagnetically-operated switch. No. 964,711; July 19; Sp. p. 3762; Gaz. vol. 156; p. 626.

Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Electric braking. No. 973,590; Oct. 25; Sp. p. 4562; Gaz. vol. 159; p. 796.

Tritsch, Julius, Cincinnati, Ohio. Hinge. No. 959,001; May 24; Sp. p. 5620; Gaz. vol. 154; p. 944.

Triumph Flat Iron Company. (See Smith, Earle R., assignor.)

Triumph Voting Machine Company. (See Abbott, Charles C., assignor.)

Troemner, Charles E. (See Dryden, William W., assignor.)

Trog, Alfred, Elberfeld, Germany. Manufacture of wall-paper. No. 977,054; Nov. 29; Sp. p. 6574; Gaz. vol. 160; p. 1122.

Trogdon, George D., Spartanburg, S. C. Feed attachment for hand-jointers. No. 945,062; Jan. 4; Sp. p. 113; Gaz. vol. 150; p. 20.

Trogner, George W., assignor to E. Bruley, Neillsville, Wis. Nail or spike puller. No. 949,337; Feb. 15; Sp. p. 3263; Gaz. vol. 151; p. 573.

Troh, Henry F., Glenwood, Wash. Sleigh brake and stop. No. 965,419; July 26; Sp. p. 5212; Gaz. vol. 156; p. 894.

Troike, Ernst, assignor of one-fourth to P. Troike, Sandusky, Ohio. Engine-muffler. No. 950,215; Feb. 22; Sp. p. 5177; Gaz. vol. 151; p. 908.

Troike, Paul. (See Troike, Ernst, assignor.)

Trombley, Richard E., Pendleton, Oreg. Gate. No. 965,420; July 26; Sp. p. 5213; Gaz. vol. 156; p. 895.

Trombly, William C., Lowell, assignor to Draper Company, Hopedale, Mass. Thin-place-detecting mechanism for looms. No. 959,654; May 31; Sp. p. 6974; Gaz. vol. 154; p. 1187.

Trompeter, George J., Peoria, Ill. Sausage-twisting machine. No. 973,086; Oct. 18; Sp. p. 3466; Gaz. vol. 159; p. 600.

Trope, Louis A., Lawton, Okla. Hose-holder. No. 966,625; Aug. 9; Sp. p. 1697; Gaz. vol. 157; p. 289.

Tropical Products Company, The. (See Moore, Charles C., Jr., assignor.)

Trostel, Albert O. (See Manns, Albert G., assignor.)

Alphabetical list of patentees—Continued.

Troth, Dana S., Oakland, Cal. Keyboard telegraph-transmitter. No. 978,079; Dec. 6; Sp. p. 1410; Gaz. vol. 161; p. 227.

Trott, Ewing C. (See Shanahan, Timothy J., assignor.)

Trott, Frederick, Winnipeg, Manitoba, Canada. Electric iron. No. 952,385; Mar. 15; Sp. p. 3869; Gaz. vol. 152; p. 692.

Trotter, John T., assignor of one-half to H. S. Edwards, Shreveport, La. Hinge. No. 949,866; Feb. 22; Sp. p. 4392; Gaz. vol. 151; p. 787.

Trotz, Johan O. E., Worcester, Mass. Rolling ingots. No. 965,050; July 19; Sp. p. 4451; Gaz. vol. 156; p. 741.

Trotz, Johan O. E., Worcester, Mass. Gas-producer. No. 968,000; Aug. 23; Sp. p. 4583; Gaz. vol. 157; p. 803.

Trotzky, Leon, Pittsburg, Pa. Stylographic pen. No. 948,832; Feb. 8; Sp. p. 2237; Gaz. vol. 151; p. 379.

Troup, Edward L. (See Walter and Troup.)

Troup, Edward L., assignor of one-half to D. C. Walter, Toledo, Ohio. Self-centering work and die holder for pipe-threading dies. No. 957,721; May 10; Sp. p. 2585; Gaz. vol. 154; p. 447.

Troup, Jacob E., Perry, Iowa. Draw-bar. No. 950,643; Mar. 1; Sp. p. 386; Gaz. vol. 152; p. 62.

Trouslot, Eugene C., Prairie City, Ill., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 974,933; Nov. 8; Sp. p. 1938; Gaz. vol. 160; p. 320.

Trout, Frank B. (See Stoner and Trout.)

Trout, R. M. (See Heinberg, Adolph, assignor.)

Trout, William H., Milwaukee, Wis. Feed-carriage connection for sawmills. No. 951,976; Mar. 15; Sp. p. 3083; Gaz. vol. 152; p. 557.

Trout, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Band-saw mill. No. 978,412; Dec. 13; Sp. p. 2154; Gaz. vol. 161; p. 374.

Troutman, Isaac V. (See Steckman and Troutman.)

Troutman, Percival H., Canon City, Colo. Orchard-heating device. No. 961,662; June 14; Sp. p. 2931; Gaz. vol. 155; p. 508.

Troutman, Percival H., Canon City, Colo. Orchard-heater. No. 976,013; Nov. 15; Sp. p. 4222; Gaz. vol. 160; p. 716.

Troutman, Percival H., Canon City, Colo. Orchard-heater. No. 978,793; Dec. 13; Sp. p. 2965; Gaz. vol. 161; p. 501.

Troutt, Martin E., assignor of one-half to J. Harwell, Fort Worth, Tex. Hose-bridge. No. 975,658; Nov. 15; Sp. p. 3525; Gaz. vol. 160; p. 595.

Troutt, Martin E., assignor of one-third to J. Harwell, Fort Worth, Tex. Accident brake appliance. No. 976,107; Nov. 15; Sp. p. 4416; Gaz. vol. 160; p. 748.

Trowbridge, Henry O., Millerton, Pa. Pitman-wheel for reaping and mowing machines. No. 970,140; Sept. 13; Sp. p. 2128; Gaz. vol. 158; p. 362.

Trowbridge, James, San Francisco, Cal. Machine for picking hops. No. 968,001; Aug. 23; Sp. p. 4585; Gaz. vol. 157; p. 804.

Troxell, Harry L. (See Birchall, Benjamin H., assignor.)

Troxell, Willoughby H. (See Frantz and Troxell.)

Troy Carriage Sun Shade Company, The. (See Dillingham, Frederick A., assignor.)

Troy, Daniel W., Montgomery, Ala. Dynamo-electric machinery. No. 979,603; Dec. 27; Sp. p. 4728; Gaz. vol. 161; p. 830.

Troy, John W., Port Huron, Mich. Vehicle-top support. No. 977,845; Dec. 6; Sp. p. 921; Gaz. vol. 161; p. 146.

Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)

Troy Laundry Machinery Company. (See Bartholomew and Phillips, assignors.)

Troy Laundry Machinery Company. (See Bell, George H., assignor.)

Troy, Matthew O., Schenectady, N. Y., assignor to General Electric Company. System of electric metering. No. 963,096; July 5; Sp. p. 161; Gaz. vol. 156; p. 24.

Troy, Michael F., Brooklyn, N. Y. Sanitary cuspidor. No. 963,664; July 5; Sp. p. 1396; Gaz. vol. 156; p. 218.

Troy Telephone Specialty Company. (See Grauel, Edwin L., assignor.)

Trudeau, Peter, Santa Ana, Cal. Built-up pneumatic tire. No. 974,771; Nov. 1; Sp. p. 1566; Gaz. vol. 160; p. 241.

Trudeau, Samuel, Toledo, Ohio. Spraying apparatus. No. 974,540; Nov. 1; Sp. p. 1078; Gaz. vol. 160; p. 161.

Trudell, George S. (See Hawthorne, Thomas, assignor.)

True, Amos T., Strong, Me. Machine for finishing skewers. No. 970,667; Sept. 20; Sp. p. 3264; Gaz. vol. 158; p. 563.

True, George A., assignor of one-half to Northern Engineering Works, Detroit, Mich. Trolley. No. 953,448; Mar. 29; Sp. p. 6180; Gaz. vol. 152; p. 1108.

Trueblood, Barclay T., Kirkland, Wash. Knife. No. 967,689; Aug. 16; Sp. p. 3930; Gaz. vol. 157; p. 675.

Truelove, Jesse R., Margaret, Tex. Mechanical insect-destroyer. No. 969,006; Aug. 30; Sp. p. 6740; Gaz. vol. 157; p. 1174.

Truesdale, Eddie P., Camden, S. C. Razor attachment. No. 980,027; Dec. 27; Sp. p. 5623; Gaz. vol. 161; p. 972.

Truesdale, Samuel R., Lonsdale, R. I., assignor to Draper Company, Hopedale, Mass. Traverse-motion for yarn-spinning apparatus. No. 974,614; Nov. 1; Sp. p. 1221; Gaz. vol. 160; p. 188.

Truffault, Jules M. M., Paris, France, assignor of fifty-one one-hundredths to E. V. Hartford and forty-nine one-hundredths to G. H. Hartford, Orange, N. J. Frictional retarding means for spring-vehicles. (Reissue.) No. 13,073; Jan. 4; Sp. p. 1605; Gaz. vol. 150; p. 249.

Trull, William E., Philadelphia, Pa., assignor to The Smith & Egge Manufacturing Co., Bridgeport, Conn. Machine for sewing buttons to fabrics. No. 952,087; Mar. 15; Sp. p. 3289; Gaz. vol. 152; p. 593.

Trulove, James W., Memphis, Tex. Safety-clamp for spectacle-cases, &c. No. 948,287; Feb. 1; Sp. p. 1038; Gaz. vol. 151; p. 170.

Trum, Emanuel J. (See Trum, Walter E., assignor.)

Trum, Walter E., assignor of one-half to E. J. Trum, Brooklyn, N. Y. Easel. No. 962,932; June 28; Sp. p. 5654; Gaz. vol. 155; p. 990.

Trumbull Electric Manufacturing Company, The. (See Trumbull, John H., assignor.)

Trumbull, John H., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric-fuse holder. No. 946,741; Jan. 18; Sp. p. 3858; Gaz. vol. 150; p. 644.

Trump, Edward N., Syracuse, N. Y., assignor to The Solvay Process Company, Solvay, N. Y. Filtering and drying apparatus. No. 963,186; July 5; Sp. p. 402; Gaz. vol. 156; p. 57.

Trump, Joner. (See Barton and Trump.)

Trumpold, Robert, and A. Koerner, St. Louis, Mo. Folding poultry-coop. No. 957,274; May 10; Sp. p. 1689; Gaz. vol. 154; p. 295.

Trumpold, Robert, and A. Koerner, St. Louis, Mo. Folding coop or crate. No. 957,275; May 10; Sp. p. 1689; Gaz. vol. 154; p. 296.

Trunnel, James, Cincinnati, Ohio. Saw-filing and saw-setting machine. No. 945,482; Jan. 4; Sp. p. 1016; Gaz. vol. 150; p. 159.

Trussed Concrete Steel Company. (See Kahn, Julius, assignor.)

Trussed Concrete Steel Company. (See Kane, Thomas H., assignor.)

Trussell, Clarence D., assignor to Trussell Manufacturing Company, New York, N. Y. Temporary binder. No. 959,182; May 24; Sp. p. 6005; Gaz. vol. 154; p. 1004.

Trussell, Clarence D. and E. A., assignors to Trussell Manufacturing Company, New York, N. Y. Temporary binder. No. 959,183; May 24; Sp. p. 6006; Gaz. vol. 154; p. 1004.

Trussell, Emory A. (See Trussell, Clarence D. and E. A.)

Trussell, Emory A., Chicago, Ill. Binder. No. 969,923; Sept. 13; Sp. p. 1683; Gaz. vol. 158; p. 290.

Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)

Trussell Manufacturing Company. (See Trussell, Clarence D. and E. A., assignors.)

Truswell, Richard, Trail, British Columbia, Canada. Machine for casting anode-plates. No. 974,541; Nov. 1; Sp. p. 1079; Gaz. vol. 160; p. 161.

Tryon, Le Roy C., Chicago, Ill. Level. No. 967,587; Aug. 16; Sp. p. 3738; Gaz. vol. 157; p. 642.

Tscherning, Henry, Freeport, Ill., assignor to Arcade Manufacturing Company. Clutch. No. 965,610; July 26; Sp. p. 5665; Gaz. vol. 156; p. 963.

Tschirch, Ernest L., Douglas county, Wash. Railway-tie. No. 975,002; Nov. 8; Sp. p. 2114; Gaz. vol. 160; p. 344.

Tschudi, John, Montrose, Colo. Check-hook. No. 949,099; Feb. 15; Sp. p. 2777; Gaz. vol. 151; p. 493.

Tubbs, Amos C., Boicourt, Kans. Press. No. 953,565; Mar. 29; Sp. p. 6426; Gaz. vol. 152; p. 1150.

Tubbs, Frank D., North Adams, Mass. Lock. No. 947,135; Jan. 18; Sp. p. 4693; Gaz. vol. 150; p. 775.

Tubbs, Oscar J., Waterville, Me. Auto-sleigh. No. 962,272; June 21; Sp. p. 4266; Gaz. vol. 155; p. 738.

Tubular Rivet & Stud Company. (See Page, Clarence C., assignor.)

Tucher, Wm. J., *et al.* (See Mapel, Lewis A., assignor.)

Tuck, Gustave, Moorfields, London, England. Toy or picture book. No. 959,655; May 31; Sp. p. 6979; Gaz. vol. 154; p. 1188.

Tuck, Gustave, London, and A. E. Kennedy, Leyton, England. Educational device. No. 969,309; Sept. 6; Sp. p. 327; Gaz. vol. 158; p. 54.

Tucker, Bedford, Bernie, assignor of one-third to J. T. Laster, Dunklin county, and one-third to G. W. Laster, Stoddard county, Mo. Bunk-dog. No. 972,041; Oct. 4; Sp. p. 1163; Gaz. vol. 159; p. 196.

Tucker, Benjamin W., South Orange, N. J. Machine for applying labels and the like to cans and other articles. No. 961,270; June 14; Sp. p. 2082; Gaz. vol. 155; p. 375.

Tucker, Benjamin W., South Orange, N. J. Automatic die-press. No. 980,028; Dec. 27; Sp. p. 5624; Gaz. vol. 161; p. 972.

Tucker, Benjamin W., Newark, N. J., assignor to J. B. Patton, Kent, Ohio. Machine for making window-shades. No. 962,178; June 21; Sp. p. 4075; Gaz. vol. 155; p. 707.

Tucker, Benjamin W., Newark, N. J., assignor to J. B. Patton, Kent, Ohio. Machine for making window-shades. No. 976,949; Nov. 29; Sp. p. 6335; Gaz. vol. 160; p. 1085.

Alphabetical list of patentees—Continued.

Tucker, Benjamin W., South Orange, N. J., and T. F. Oechsle, Philadelphia, Pa. Pipe-bending machine. No. 979,724; Dec. 27; Sp. p. 4972; Gaz. vol. 161; p. 871.

Tucker, Bonnie V. (See Constantine and Tucker.)

Tucker, Charles F., Hartford, Conn. Grease-cup. No. 946,290; Jan. 11; Sp. p. 2816; Gaz. vol. 150; p. 469.

Tucker & Dorsey Manufacturing Company. (See Dorsey, Robert L., assignor.)

Tucker, Edwin D., Santa Barbara, Cal., assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Drainage-pipe fitting. No. 955,109; Apr. 12; Sp. p. 3038; Gaz. vol. 153; p. 516.

Tucker, Edwin W., San Francisco, Cal. Oil-burner. No. 975,482; Nov. 15; Sp. p. 3125; Gaz. vol. 160; p. 534.

Tucker, Francois M., assignor of one-half to E. Turnbeaugh, Fredericktown, Mo. Machine for shaping drills. No. 974,211; Nov. 1; Sp. p. 245; Gaz. vol. 160; p. 40.

Tucker, George A., Apalachicola, Fla. Crayon-holder. No. 955,617; Apr. 19; Sp. p. 4153; Gaz. vol. 153; p. 723.

Tucker, George W., and E. Beach, Vernon, Kans.; said Beach assignor to said Tucker. Hay-press. No. 969,677; Sept. 6; Sp. p. 1114; Gaz. vol. 158; p. 179.

Tucker, James D., Sierra Madre, Cal. Straining-cloth holder. No. 965,611; July 26; Sp. p. 5667; Gaz. vol. 156; p. 963.

Tucker, James D., assignor of one-half to M. Denton, Grubbs, Ark. Churn. No. 961,045; June 7; Sp. p. 1621; Gaz. vol. 155; p. 271.

Tucker, James T., Moultrie, Ga. Marking attachment for plows. No. 960,444; June 7; Sp. p. 409; Gaz. vol. 155; p. 69.

Tucker, John V. (See Creasey, Samuel E., assignor.)

Tucker, Robert. (See Page, Clarence C., assignor.)

Tucker, Wilson H., and W. F. Waddell, New York, N. Y. Throw-out switch. No. 973,322; Oct. 18; Sp. p. 3988; Gaz. vol. 159; p. 683.

Tucker, Zechariah R., Providence, R. I. Measuring instrument. No. 953,933; Apr. 5; Sp. p. 493; Gaz. vol. 153; p. 90.

Tucker, Zechariah R., Providence, R. I. Micrometer-calipers. No. 959,974; May 31; Sp. p. 7692; Gaz. vol. 154; p. 1296.

Tuckerman, Thomas. (See Fowler and Tuckerman.)

Tudor, John W., Boston, Mass. Starting device for engines. No. 955,017; Apr. 12; Sp. p. 2884; Gaz. vol. 153; p. 488.

Tudor, John W., Boston, Mass. Starting device for engines. No. 974,844; Nov. 8; Sp. p. 1722; Gaz. vol. 160; p. 289.

Tudor, Robert H., assignor of one-half to E. F. Waits, Cornish, Miss. Telegraph-repeater. No. 966,490; Aug. 9; Sp. p. 1379; Gaz. vol. 157; p. 243.

Tuerk, Eugene W., and R. G. Zahalan, New Liskeard, Ontario, Canada. Faucet. No. 971,646; Oct. 4; Sp. p. 284; Gaz. vol. 159; p. 51.

Tuerk, Frederick W., assignor to The Tuerk Novelty Company, Chicago, Ill. Carbureter. No. 963,187; July 5; Sp. p. 407; Gaz. vol. 156; p. 58.

Tuerk Novelty Company, The. (See Tuerk, Frederick W., assignor.)

Tufts, Edward R., Pittsburg, Pa., assignor of one-half to C. E. Greenough, New York, N. Y. Sight for firearms. No. 954,064; Apr. 5; Sp. p. 767; Gaz. vol. 153; p. 133.

Tufts, John R., Jr., Weymouth, assignor of one-half to F. W. Clark, Boston, Mass. Insulator. No. 964,586; July 19; Sp. p. 3412; Gaz. vol. 156; p. 583.

Tufts, Robert B., Atlanta, Ga. Concrete-mold. No. 977,763; Dec. 6; Sp. p. 760; Gaz. vol. 161; p. 118.

Tuggle, James R. (See Bowman, Henry W., assignor.)

Tukis, Benedict, Cambridge, Mass. Box-cover fastener. No. 961,990; June 21; Sp. p. 3639; Gaz. vol. 155; p. 640.

Tulene, Albert C., Plattsmouth, Nebr. Roundabout. No. 954,482; Apr. 12; Sp. p. 1675; Gaz. vol. 153; p. 303.

Tullock, William, assignor of one-tenth to W. J. Thompson, one-tenth to T. McKernan, Denver, one-fifth to W. M. Laurie, one-fifth to T. Phillips, and one-fifth to H. Russell, Leyden, Colo. Automatic electric signal for railways. No. 953,109; Mar. 29; Sp. p. 5450; Gaz. vol. 152; p. 996.

Tully, Arthur M., Arran, Fla. Grinding-mill spindle. No. 947,953; Feb. 1; Sp. p. 368; Gaz. vol. 151; p. 59.

Tully, Francis W., Brookline, Mass. Exhibiting apparatus. No. 974,450; Nov. 1; Sp. p. 858; Gaz. vol. 160; p. 126.

Tully, Thomas J. (See Adamson, Nils F., assignor.)

Tum, Frank, Bucyrus, Ohio. Chair-cane. No. 951,857; Mar. 15; Sp. p. 2843; Gaz. vol. 152; p. 517.

Tunis, Howard H., Baltimore county, Md., assignor to American Monorail Company. Rigid truck. No. 955,226; Apr. 19; Sp. p. 3309; Gaz. vol. 153; p. 591.

Tunis, Howard H., Baltimore county, Md., assignor to American Monorail Company. Composite follower-wheel. No. 955,227; Apr. 19; Sp. p. 3310; Gaz. vol. 153; p. 591.

Tunis, Howard H., Baltimore county, Md., assignor to American Monorail Company. Overhead railway switch and crossing. No. 955,228; Apr. 19; Sp. p. 3311; Gaz. vol. 153; p. 591.

Tunis, Howard H., Baltimore county, Md., assignor to American Monorail Company. Elastic overhead truck for railways. No. 962,179; June 21; Sp. p. 4079; Gaz. vol. 155; p. 708.

Tunzat, Henretta. (See Badger, Alonzo, assignor.)

Tuomi, Uuno, Aberdeen, S. D. Combined carpenter's tool. No. 948,777; Feb. 8; Sp. p. 2122; Gaz. vol. 151; p. 361.

Tupper, John A., Montpelier, Idaho. Electric radiator. No. 976,615; Nov. 22; Sp. p. 5595; Gaz. vol. 160; p. 946.

Tupper, Russell E., Sandwich, Mass. Screen-door fastener. No. 960,445; June 7; Sp. p. 410; Gaz. vol. 155; p. 69.

Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 954,599; Apr. 12; Sp. p. 1926; Gaz. vol. 153; p. 342.

Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 957,523; May 10; Sp. p. 2193; Gaz. vol. 154; p. 379.

Turbayne, William A., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Electrical system of distribution. No. 962,106; June 21; Sp. p. 3907; Gaz. vol. 155; p. 681.

Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 963,339; July 5; Sp. p. 751; Gaz. vol. 156; p. 109.

Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 969,007; Aug. 30; Sp. p. 6742; Gaz. vol. 157; p. 1175.

Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 969,008; Aug. 30; Sp. p. 6745; Gaz. vol. 157; p. 1175.

Turck, Frederick M., Rosebank, assignor to J. L. Oberly, New York, N. Y. Web-printing press. No. 948,261; Feb. 1; Sp. p. 980; Gaz. vol. 151; p. 161.

Turek, Ferdinand, Cleveland, Ohio. Filter. No. 969,224; Sept. 6; Sp. p. 174; Gaz. vol. 158; p. 28.

Turek, Ferdinand, Cleveland, Ohio. Equalizing device for beer filtration. No. 973,087; Oct. 18; Sp. p. 3475; Gaz. vol. 159; p. 600.

Turek, Ferdinand, Cleveland, Ohio. Filter system. No. 975,483; Nov. 15; Sp. p. 3127; Gaz. vol. 160; p. 535.

Turek, Ferdinand, Cleveland, Ohio. Gage. No. 977,055; Nov. 29; Sp. p. 6574; Gaz. vol. 160; p. 1122.

Türk, Leo, New York, N. Y., assignor, by mesne assignments, to Austin-Walker Company, Boston, Mass. Adjustable stiletto for embroidery and art crafting. No. 960,738; June 7; Sp. p. 1009; Gaz. vol. 155; p. 170.

Turley, Henry C. (See Rodgers, James T., assignor.)

Turley, Leslie C., Portsmouth, Ohio. Fluid-expansion press. No. 961,046; June 7; Sp. p. 1622; Gaz. vol. 155; p. 272.

Turley, Patrick H., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Key-locking mechanism. No. 957,481; May 10; Sp. p. 2102; Gaz. vol. 154; p. 365.

Turley, Thomas J. (See Kollenberg, Frederick G., assignor.)

Turlur, Paul, Wattrelos, France. Yarn-dressing machine. No. 951,858; Mar. 15; Sp. p. 2844; Gaz. vol. 152; p. 518.

Turlur, Paul, Wattrelos, France. Apparatus for drying textile yarns, fabrics, and other materials. No. 951,859; Mar. 15; Sp. p. 2847; Gaz. vol. 152; p. 518.

Turman, William B., Waldron, Ark. Combined cotton gin and cleaner. No. 969,924; Sept. 13; Sp. p. 1685; Gaz. vol. 158; p. 290.

Turnbeaugh, Eliza. (See Tucker, Francois M., assignor.)

Turnbull, John. (See Parsons and Turnbull.)

Turnbull, Thomas, Jr., Pittsburg, Pa. Means for feeding fluid fuel. No. 960,057; May 31; Sp. p. 7900; Gaz. vol. 154; p. 1326.

Turnbull Wagon Company, The. (See Frick, Orlando A., assignor.)

Turnbull, Walter J., New Orleans, La. Conveyer. No. 975,181; Nov. 8; Sp. p. 2508; Gaz. vol. 160; p. 405.

Turnbull, William, Wellington, New Zealand. Flusher for water-closets and the like. No. 960,602; June 7; Sp. p. 740; Gaz. vol. 155; p. 122.

Turner, Albert, Denton, Manchester, England. Felt-hat-planking machine. No. 969,999; Sept. 13; Sp. p. 1852; Gaz. vol. 158; p. 315.

Turner, Albert O., assignor of one-fourth to F. R. Smith, Manhattan, Kans. Saw-set. No. 960,446; June 7; Sp. p. 412; Gaz. vol. 155; p. 69.

Turner Baffle-Wall & Boiler Company. (See Turner, Thomas G., assignor.)

Turner, Bertram, Handsworth, England. Ball-bearing caster. No. 967,085; Aug. 9; Sp. p. 2699; Gaz. vol. 157; p. 443.

Turner, Beverly B., and C. G. Pollock, Berthoud, Colo. Grain-cutting device. No. 962,601; June 28; Sp. p. 5008; Gaz. vol. 155; p. 876.

Turner, Charles A., Norfolk, Va. Receptacle for powder and the like. No. 961,661; June 14; Sp. p. 2930; Gaz. vol. 155; p. 508.

Alphabetical list of patentees—Continued.

Turner, Charles F., assignor of one-fifth to E. Williams, one-fifth to H. Le Roy, and one-fifth to E. J. Dockery, Boise, Idaho. Lift. No. 968,501; Aug. 23; Sp. p. 5667; Gaz. vol. 157; p. 976.
Turner, Charles M., *et al.* (See Easley, Robert A., assignor.)
Turner, Charles P., Harrisburg, Pa. Blast-furnace-charging device. No. 947,136; Jan. 18; Sp. p. 4694; Gaz. vol. 150; p. 775.
Turner, Charles P., Harrisburg, Pa. Blast-furnace-charging device. No. 947,206; Jan. 18; Sp. p. 4845; Gaz. vol. 150; p. 799.
Turner, Charles P., Harrisburg, Pa. Vapor power plant. No. 952,386; Mar. 15; Sp. p. 3871; Gaz. vol. 152; p. 693.
Turner, Collatinus A., New York, N. Y. Balanced valve. No. 951,551; Mar. 8; Sp. p. 2216; Gaz. vol. 152; p. 384.
Turner, Elijah V., Johnson City, Tenn. Velocipede. No. 959,656; May 31; Sp. p. 6980; Gaz. vol. 154; p. 1188.
Turner, Floyd. (See Andrews and Turner.)
Turner, George E., Bellefontaine, Ohio. Controlling mechanism. No. 972,296; Oct. 11; Sp. p. 1706; Gaz. vol. 159; p. 300.
Turner, George E., assignor of one-tenth to H. L. Weiser, Bellefontaine, Ohio. Sectional dredge. No. 973,591; Oct. 25; Sp. p. 4564; Gaz. vol. 159; p. 796.
Turner, George S. (See Hunter and Turner.)
Turner, Harley O., assignor of one-half to E. G. Bock, Lebanon, Kans. Draft-equalizer. No. 965,345; July 26; Sp. p. 5073; Gaz. vol. 156; p. 871.
Turner, Harold J., Montclair, N. J. Combination-shaker. No. 947,315; Jan. 25; Sp. p. 5130; Gaz. vol. 150; p. 866.
Turner, Henry P., Chicago, Ill. Deposit and collection receptacle. No. 948,556; Feb. 8; Sp. p. 1643; Gaz. vol. 151; p. 287.
Turner, Ira B., Philadelphia, Pa. Train-service coupling. No. 948,150; Feb. 1; Sp. p. 763; Gaz. vol. 151; p. 125.
Turner, Ira B., Philadelphia, Pa. Line-holder. No. 963,834; July 12; Sp. p. 1819; Gaz. vol. 156; p. 299.
Turner, James, and P. P. Crabill, assignors to The Central Brass & Fixture Company, Springfield, Ohio. Buffer for automobiles. No. 974,212; Nov. 1; Sp. p. 247; Gaz. vol. 160; p. 41.
Turner, James S., Caddo Mills, Tex., and J. L. Campbell, Caddo, Okla. Clothes-pounder. No. 957,919; May 17; Sp. p. 3031; Gaz. vol. 154; p. 544.
Turner, John, Colorado Springs, Colo. Valve-spring remover. No. 970,141; Sept. 13; Sp. p. 2130; Gaz. vol. 158; p. 363.
Turner, John, and A. Buxton, Manchester, assignors to The Rubber Patents Limited, Cowley, England. Football, punch-ball, and similar playing-ball. No. 964,888; July 19; Sp. p. 4126; Gaz. vol. 156; p. 687.
Turner, Joseph, assignor to American Vertebrate Propeller Company, New York, N. Y. Propeller. No. 966,491; Aug. 9; Sp. p. 1381; Gaz. vol. 157; p. 243.
Turner, Joseph E., *et al.* (See Frye, Charles W., assignor.)
Turner, Joseph W., Des Moines, Iowa. Electrolier. No. 971,226; Sept. 27; Sp. p. 4447; Gaz. vol. 158; p. 779.
Turner, Justice C., *et al.* (See Hurl, Charles W., assignor.)
Turner, Richard E., Admiral, Md. Wagon-brake. No. 954,229; Apr. 5; Sp. p. 1144; Gaz. vol. 153; p. 190.
Turner, Samuel B., St. Louis, Mo. Mechanical music-chart. No. 946,291; Jan. 11; Sp. p. 2820; Gaz. vol. 150; p. 469.
Turner, Samuel J., Chicago, Ill. Sled. No. 978,515; Dec. 13; Sp. p. 2369; Gaz. vol. 161; p. 409.
Turner, Samuel J., Chicago, Ill. Wheel. No. 978,516; Dec. 13; Sp. p. 2370; Gaz. vol. 161; p. 409.
Turner, Sydney, assignor to J. D. Nasmith, Toronto, Ontario, Canada. Baking-oven. No. 977,347; Nov. 29; Sp. p. 7193; Gaz. vol. 160; p. 1223.
Turner, Thomas, Philadelphia, Pa. Valve. No. 969,576; Sept. 6; Sp. p. 909; Gaz. vol. 158; p. 141.
Turner, Thomas G., New York, N. Y. Incandescent-lamp base. No. 961,326; June 14; Sp. p. 2246; Gaz. vol. 155; p. 396.
Turner, Thomas G., New York, N. Y., assignor to Turner Baffle-Wall & Boiler Company. Brick for flame-walls of water-tube boilers. No. 979,604; Dec. 27; Sp. p. 4731; Gaz. vol. 161; p. 830.
Turner, Thomas L. (See Starke and Turner.)
Turner, Walter V. (See Farmer and Turner.)
Turner, Walter V., Edgewood, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Automatic air-brake. No. 945,063; Jan. 4; Sp. p. 115; Gaz. vol. 150; p. 20.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Electric pump-governor. No. 950,737; Mar. 1; Sp. p. 597; Gaz. vol. 152; p. 94.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Combined automatic and straight air-brake. No. 956,234; Apr. 26; Sp. p. 5537; Gaz. vol. 153; p. 966.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Combined automatic and straight-air brake apparatus. No. 963,487; July 5; Sp. p. 1046; Gaz. vol. 156; p. 159.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Duplex air-brake system. No. 965,612; July 26; Sp. p. 5668; Gaz. vol. 156; p. 964.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Combined automatic emergency and straight-air brake. No. 965,613; July 26; Sp. p. 5671; Gaz. vol. 156; p. 964.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Duplex automatic and straight-air brake. No. 965,614; July 26; Sp. p. 5674; Gaz. vol. 156; p. 965.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Straight-air and automatic emergency brake apparatus. No. 965,615; July 26; Sp. p. 5677; Gaz. vol. 156; p. 965.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Graduated release-brake. No. 965,616; July 26; Sp. p. 5679; Gaz. vol. 156; p. 965.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Triple-valve device. No. 969,427; Sept. 6; Sp. p. 588; Gaz. vol. 158; p. 94.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Triple-valve device. No. 971,327; Sept. 27; Sp. p. 4635; Gaz. vol. 158; p. 811.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Combined automatic and straight-air brake. No. 971,806; Oct. 4; Sp. p. 613; Gaz. vol. 159; p. 107.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Combined automatic and straight-air brake. No. 971,807; Oct. 4; Sp. p. 617; Gaz. vol. 159; p. 108.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Straight-air emergency-brake. No. 971,808; Oct. 4; Sp. p. 620; Gaz. vol. 159; p. 108.
Turner, Walter V., Wilmerding, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Combined automatic and straight air brake. No. 950,736; Mar. 1; Sp. p. 595; Gaz. vol. 152; p. 94.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure regulator. No. 953,403; Mar. 29; Sp. p. 6084; Gaz. vol. 152; p. 1093.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake protection-valve. No. 971,326; Sept. 27; Sp. p. 4631; Gaz. vol. 158; p. 811.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Graduated-release triple valve. No. 971,421; Sept. 27; Sp. p. 4809; Gaz. vol. 158; p. 842.
Turner, Wesley, Oakland, Cal. Miter-box. No. 949,100; Feb. 15; Sp. p. 2777; Gaz. vol. 151; p. 493.
Turner, William A., assignor of one-half to J. C. Hartwell, Providence, R. I. Pipe-coupling. No. 954,549; Apr. 12; Sp. p. 1817; Gaz. vol. 153; p. 326.
Turner, William L. (See Hough and Turner.)
Turner, William L., assignor to Metal Sign Board Advertising Company, Kalamazoo, Mich. Sign-board. No. 953,871; Apr. 5; Sp. p. 377; Gaz. vol. 153; p. 68.
Turner, William M., *et al.* (See Ellison, John D., assignor.)
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Pneumatic motor. No. 967,271; Aug. 16; Sp. p. 3082; Gaz. vol. 157; p. 534.
Turney, William, Hyde Park, Mass. Adjustable reamer. No. 959,273; May 24; Sp. p. 6186; Gaz. vol. 154; p. 1034.
Turnidge, Jesse A., assignor to Commercial Aerial Navigation Co., Webb City, Mo. Airship. No. 949,810; Feb. 22; Sp. p. 4247; Gaz. vol. 151; p. 766.
Turnpaugh, Walter S., Fort Worth, Tex. Exhibitor. No. 979,605; Dec. 27; Sp. p. 4733; Gaz. vol. 161; p. 831.
Tuson, Charles. (See Keith and Tuson.)
Tussing, Elza T., *et al.* (See Reynolds, Frank C., assignor.)
Tussing, Jacob G., *et al.* (See Reynolds, Frank C., assignor.)
Tustin, Edward B., Jr., Bloomsburg, Pa. Wireless lighting system. No. 961,914; June 21; Sp. p. 3478; Gaz. vol. 155; p. 616.
Tuttle, Charles B. (See Sanborn, John P., assignor.)
Tuttle, Daniel M., Canastota, N. Y. Spark-plug. No. 968,612; Aug. 30; Sp. p. 5906; Gaz. vol. 157; p. 1041.
Tuttle, George A., Richland, Wash. Harvester. No. 955,229; Apr. 19; Sp. p. 3314; Gaz. vol. 153; p. 592.
Tuttle Hay Press Co., *et al.* (See Tuttle, Josiah S., assignor.)
Tuttle, Jonathan B., Claremont, Cal. Fruit and flower clipper. No. 972,417; Oct. 11; Sp. p. 1954; Gaz. vol. 159; p. 343.
Tuttle, Josiah S., Kansas City, Mo., assignor of one-half to George Ertel Co., Quincy, Ill. Baling-press. No. 945,114; Jan. 4; Sp. p. 221; Gaz. vol. 150; p. 38.
Tuttle, Josiah S., Kansas City, Mo., assignor to George Ertel Co., Quincy, Ill. Merry-go-round. No. 947,954; Feb. 1; Sp. p. 369; Gaz. vol. 151; p. 59.

Tuttle, Josiah S., Kansas City, Mo., assignor of one-half to Geo. Ertel Co., Quincy, Ill. Wiring mechanism for baling-presses. No. 962,273; June 21; Sp. p. 4268; Gaz. vol. 155; p. 738.

Tuttle, Josiah S., assignor of one-half to Tuttle Hay Press Co., Kansas City, Mo., and one-half to George Ertel Co., Quincy, Ill. Baling-press. No. 945,876; Jan. 11; Sp. p. 1941; Gaz. vol. 150; p. 323.

Tuttle, Lauren T., Portland, Oreg. Fastening attachment for hats. No. 953,159; Mar. 29; Sp. p. 5552; Gaz. vol. 152; p. 1012.

Tuttle, Montague H., Atlanta, Ga. Crown for teeth. No. 967,086; Aug. 9; Sp. p. 2700; Gaz. vol. 157; p. 443.

Tuttle, Perry R., Rozel, Kans. Buckle. No. 956,909; May 3; Sp. p. 896; Gaz. vol. 154; p. 142.

Tuttle, Willard S., Philadelphia, Pa. Steam-boiler. No. 975,736; Nov. 15; Sp. p. 3680; Gaz. vol. 160; p. 620.

Tweet, Nels, assignor of one-half to J. Howard, Hillsboro, N. D. Button. No. 946,742; Jan. 18; Sp. p. 3859; Gaz. vol. 150; p. 644.

Tweet, Nels, assignor of one-half to J. Howard, Hillsboro, N. D. Button. No. 975,808; Nov. 15; Sp. p. 3828; Gaz. vol. 160; p. 645.

Twentieth Century Machinery Company. (See Hauk, Joseph, Jr., assignor.)

20th Century Machinery Company, The. (See Volz, Simon, assignor.)

Twichell, William S., Midland Park, N. J. Device for mechanical aid for handwriting. No. 963,835; July 12; Sp. p. 1821; Gaz. vol. 156; p. 299.

Twigg, Walter R. (See Davis and Twigg.)

Twiggs, Clifton A., Zanesville, Ohio. Lawn-sprinkler. No. 946,888; Jan. 18; Sp. p. 4231; Gaz. vol. 150; p. 696.

Twiggs, John D., Jr., Augusta, Ga. Valve. No. 955,018; Apr. 12; Sp. p. 2888; Gaz. vol. 153; p. 489.

Twinplex Manufacturing Company. (See Floyd, George G., assignor.)

Twombly, Alexander H., Summit, N. J., assignor to Gerard Ozone Process Company. Apparatus for sterilizing and oxidizing liquids with ozone. No. 969,736; Sept. 6; Sp. p. 1243; Gaz. vol. 158; p. 200.

Twyman, Calvin R. (See Hamilton and Twyman.)

Tyberg, Oluf, Point Loma, Cal. Universal lathe. No. 972,297; Oct. 11; Sp. p. 1710; Gaz. vol. 159; p. 300.

Tyberg, Oluf, assignor to R. L. Patterson and G. Arents, Jr., New York, N. Y. Machine for removing cigar-bunches from molds. No. 947,869; Feb. 1; Sp. p. 190; Gaz. vol. 151; p. 32.

Tyberg, Oluf, assignor to R. L. Patterson and G. Arents, Jr., New York, N. Y. Machine for removing cigar-bunches from molds. No. 947,870; Feb. 1; Sp. p. 199; Gaz. vol. 151; p. 33.

Tyberg, Oluf, and L. Lake, New York, N. Y., assignors to R. L. Patterson and G. Arents, Jr., New York, N. Y. Machine for removing cigar-bunches from molds. No. 947,871; Feb. 1; Sp. p. 204; Gaz. vol. 151; p. 33.

Tyden, Emil, Hastings, Mich. Table-edge-sanding machine. No. 960,447; June 7; Sp. p. 413; Gaz. vol. 155; p. 70.

Tyden, Emil, Hastings, Mich. Extension-table. No. 963,665; July 5; Sp. p. 1399; Gaz. vol. 156; p. 218.

Tyden, Emil, Hastings, Mich. Extension-table. No. 980,029; Dec. 27; Sp. p. 5646; Gaz. vol. 161; p. 973.

Tye, John P., Rochester, Tex. Drill. No. 954,230; Apr. 5; Sp. p. 1146; Gaz. vol. 153; p. 191.

Tyers, Samuel H., Lorquon, Victoria, Australia. Stripper-harvester or like machine. No. 975,003; Nov. 8; Sp. p. 2115; Gaz. vol. 160; p. 344.

Tyiska, John W., Meridian, Okla. Envelop. No. 958,981; May 24; Sp. p. 5581; Gaz. vol. 154; p. 938.

Tyler, Aaron J., Rochester, N. Y. Curb-box. No. 948,001; Feb. 1; Sp. p. 459; Gaz. vol. 151; p. 74.

Tyler, Aaron J., Rochester, N. Y. Curb-box. No. 961,178; June 14; Sp. p. 1891; Gaz. vol. 155; p. 343.

Tyler, Alphonso. (See Jordan and Tyler.)

Tyler, Claiborn, Boley, Okla. Sight for firearms. No. 960,739; June 7; Sp. p. 1011; Gaz. vol. 155; p. 170.

Tyler, Cyrus E., *et al.* (See Hammond, Robert O., assignor.)

Tyler, Elza E., Columbia, Mo. Waterway stock-fence. No. 952,023; Mar. 15; Sp. p. 3177; Gaz. vol. 152; p. 572.

Tyler, Jesse S., *et al.* (See Hammond, Robert O., assignor.)

Tyler, Lydia A., Spokane, Wash. Hat-holder. No. 968,899; Aug. 30; Sp. p. 6537; Gaz. vol. 157; p. 1138.

Tyner, Eva, Canon City, Colo. Folding frame for mosquito-bars. No. 976,950; Nov. 29; Sp. p. 6346; Gaz. vol. 160; p. 1086.

Tynes, Minor E., Gloster, Miss. Sewing-machine attachment. No. 957,276; May 10; Sp. p. 1691; Gaz. vol. 154; p. 296.

Tynes, Minor E., Gloster, Miss. Churn. No. 969,310; Sept. 6; Sp. p. 328; Gaz. vol. 158; p. 54.

Typewriter Printing Machine Company, The. (See Lerner and Bean, assignors.)

Typewriting Telegraph Company. (See Crehore, Albert C., assignor.)

Tyrrell, Wallace B., Delavan, Wis. Infant's garment. No. 949,164; Feb. 15; Sp. p. 2909; Gaz. vol. 151; p. 516.

Tyson, Andrew H., Washington, D. C. Hygienic water-cooler. No. 953,648; Mar. 29; Sp. p. 6594; Gaz. vol. 152; p. 1178.

Tyson, Frank, Canton, Ohio. Elastic shaft connection. No. 976,232; Nov. 22; Sp. p. 4742; Gaz. vol. 160; p. 814.

U. S. Automatic Vending Machine Company. (See McMannus, William H., assignor.)

U. S. Bobbin & Shuttle Co. (See Baldwin and Buffington, assignors.)

U. S. Bobbin and Shuttle Co. (See Brown, Henry M., assignor.)

U. S. Bobbin & Shuttle Co. (See Stetson, Frank H., assignor.)

U. S. Flush Tank Company. (See Land, Gordon, assignor.)

U. S. Gas Machine Co. (See Becker, Jacob F., assignor.)

U. S. Mail Chute Equipment Company. (See Ehrlich, Leo, assignor.)

U. S. Mail Chute Equipment Company. (See Kumming, Emil A., assignor.)

U. S. Rapid Mail Service Co. (See Hupp, Albert, assignor.)

U. S. E. M. Co. (See Lovejoy, Dimnitt R., assignor.)

Udwin, Marcus L., Chicago, Ill. Gas-heated sad-iron. No. 963,188; July 5; Sp. p. 410; Gaz. vol. 156; p. 58.

Uebbing, Joseph T. (See Kitsteiner and Uebbing.)

Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Intermittent-motion mechanism. No. 964,712; July 19; Sp. p. 3764; Gaz. vol. 156; p. 626.

Uebelmesser, Charles R., New York, N. Y., assignor to American Moving Picture Machine Company. Mechanical movement. No. 975,659; Nov. 15; Sp. p. 3526; Gaz. vol. 160; p. 595.

Uehlinger, Herman, New York, N. Y. Blotting device. No. 960,603; June 7; Sp. p. 741; Gaz. vol. 155; p. 122.

Ufford, Byron L., Moffitt, Nebr. Vegetable-topper. No. 955,019; Apr. 12; Sp. p. 2889; Gaz. vol. 153; p. 489.

Ugrimoff, Boris von, Moscow, Russia. Cooling device for electrical sliding contacts. No. 970,407; Sept. 13; Sp. p. 2675; Gaz. vol. 158; p. 452.

Uhl, Daniel B. (See Blanchard, Uhl, and Koch.)

Uhl, Georg, and W. Schmidt, New York, N. Y. Silver cleaning and polishing paste. No. 978,239; Dec. 13; Sp. p. 1783; Gaz. vol. 161; p. 313.

Uhlemann, William R., Chicago, Ill. Eyeglass-mounting. No. 970,577; Sept. 20; Sp. p. 3057; Gaz. vol. 158; p. 532.

Uhlemann, William R., Chicago, Ill. Eyeglass-mounting. No. 970,578; Sept. 20; Sp. p. 3059; Gaz. vol. 158; p. 532.

Uhlemann, William R., Chicago, Ill. Eyeglass-mounting. No. 970,579; Sept. 20; Sp. p. 3060; Gaz. vol. 158; p. 533.

Uhlig, Richard W., Rutherford, N. J., assignor to Emerson Typewriter Company, Chicago, Ill. Type-writer carriage mechanism. No. 950,196; Feb. 22; Sp. p. 5133; Gaz. vol. 151; p. 901.

Uhlig, Richard W., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 962,727; June 28; Sp. p. 5266; Gaz. vol. 155; p. 919.

Uhlig, Richard W., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 965,346; July 26; Sp. p. 5074; Gaz. vol. 156; p. 871.

Uhlig, Richard W., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 965,347; July 26; Sp. p. 5077; Gaz. vol. 156; p. 872.

Uhlig, Richard W., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 965,421; July 26; Sp. p. 5215; Gaz. vol. 156; p. 895.

Uhlig, Richard W., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 970,668; Sept. 20; Sp. p. 3266; Gaz. vol. 158; p. 563.

Uhlig, Richard W., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 974,314; Nov. 1; Sp. p. 534; Gaz. vol. 160; p. 79.

Uhlir, Anton, Charleston, W. Va. Egg-shell remover. No. 963,407; July 5; Sp. p. 895; Gaz. vol. 156; p. 132.

Uhlyarik, Anthony, Ossining, N. Y. Machine for use in cleaning table-cutlery. No. 958,843; May 24; Sp. p. 5284; Gaz. vol. 154; p. 891.

Uhrin, John, *et al.* (See Stawartz, John J., assignor.)

Uihlein, Hermann, Nuremberg, Germany. Utilizing spent fire-gases from a furnace for firing further furnaces. No. 964,341; July 12; Sp. p. 2844; Gaz. vol. 156; p. 469.

Ulbrich, Gustav H., assignor of one-half to J. S. Balden, Enid, Okla. Toy. No. 957,819; May 10; Sp. p. 2789; Gaz. vol. 154; p. 479.

Ullberg, John, and B. Levy, assignors to Philadelphia Watch Case Company, Riverside, N. J. Forming watch-case-bows. No. 946,082; Jan. 11; Sp. p. 2370; Gaz. vol. 150; p. 394.

Ullmann, Fritz, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Anthraquinone acridones. No. 961,047; June 7; Sp. p. 1625; Gaz. vol. 155; p. 272.

Alphabetical list of patentees—Continued.

Ullmann, Fritz, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Anthraquinone-di-acridones. No. 961,048; June 7; Sp. p. 1026; Gaz. vol. 155; p. 272.
Ullrich, Emil H. W., Chicago, Ill. Dredge for powder-cans. No. 961,991; June 21; Sp. p. 3641; Gaz. vol. 155; p. 640.
Ullrich, George F., and O. L. Weigert, Missoula, Mont.; said Weigert assignor to said Ullrich. Washboard. No. 948,909; Feb. 8; Sp. p. 2378; Gaz. vol. 151; p. 405.
Ullrich, Jacob, Hoboken, N. J. Stylographic pen. No. 979,606; Dec. 27; Sp. p. 4735; Gaz. vol. 161; p. 831.
Ullrich, Joseph, New Orleans, La. Saw and handle for the same. No. 948,151; Feb. 1; Sp. p. 768; Gaz. vol. 151; p. 126.
Ullrich, Reuben S., Lewistown, Pa. Railway-tie and fastener. No. 952,591; Mar. 22; Sp. p. 4324; Gaz. vol. 152; p. 792.
Ulrich, Charles E. (See Schmid, Gustav A., assignor.)
Ulrich, Clinton W. (See Monroe, Jay A., assignor.)
Ulrich, George A., Guadalajara, Mexico. Car-door burglar-alarm. No. 954,231; Apr. 5; Sp. p. 1148; Gaz. vol. 153; p. 191.
Ulrich, Karl, Zweibrücken, Germany. Device for damping the air in closed rooms. No. 971,227; Sept. 27; Sp. p. 4449; Gaz. vol. 158; p. 779.
Ulrich, Peter A., Deer Creek, Ill. Land-marker. No. 958,567; May 17; Sp. p. 4691; Gaz. vol. 154; p. 770.
Ulrich, Tomey D. (See Andres, George F., assignor.)
Ulsh, Joseph E., Altoona, Pa. Window-operating mechanism. No. 946,292; Jan. 11; Sp. p. 2823; Gaz. vol. 150; p. 469.
Ulsh, Joseph E., and D. T. Goodman, Altoona, Pa. Auxiliary car-coupling. No. 964,713; July 19; Sp. p. 3766; Gaz. vol. 156; p. 626.
Ummach, Charles E., Chicago, Ill. Fixture for gas or electric lighting. No. 966,626; Aug. 9; Sp. p. 1698; Gaz. vol. 157; p. 290.
Unckrich, Ferdinand, Galion, Ohio. Vault-closure. No. 959,406; May 24; Sp. p. 6436; Gaz. vol. 154; p. 1077.
Uncle Sam Automobile Co. *et al.* (See Sparks, Thomas J.; assignor.)
Undeland, Andrew L., Omaha, Nebr. Head-rest for barber-chairs. (Reissue.) No. 13,094; Mar. 15; Sp. p. 3980; Gaz. vol. 152; p. 712.
Under-Feed Stoker Company of America. (See Roe, John M., assignor.)
Underhill, George H. (See Genella, Alphonse J. K., assignor.)
Underhill, George H. (See Williams, Joseph H., assignor.)
Underhill, Walter A., Auburn, N. Y. Dump-wagon. No. 948,358; Feb. 8; Sp. p. 1203; Gaz. vol. 151; p. 220.
Underhill, Walter A., Auburn, N. Y. Fifth-wheel for wagons. No. 975,004; Nov. 8; Sp. p. 2117; Gaz. vol. 160; p. 344.
Underhill, Zoe D., Bedford Station, N. Y. Aerial toy. No. 975,182; Nov. 8; Sp. p. 2511; Gaz. vol. 160; p. 406.
Underhill, Zoe D., Bedford Hills, N. Y. Toy. No. 977,572; Dec. 6; Sp. p. 361; Gaz. vol. 161; p. 52.
Underhill, Zoe D., Bedford Hills, N. Y. Game apparatus. No. 979,109; Dec. 20; Sp. p. 3682; Gaz. vol. 161; p. 639.
Underpinning Company, The. (See Goldsborough, John B., assignor.)
Underwood Automatic Typewriter Pay Station Company. (See Bates, Harry, assignor.)
Underwood Automatic Typewriter Pay Station Company. (See Broughton and Lattin, assignors.)
Underwood Automatic Typewriter Pay Station Company. (See Rice and Broughton, assignors.)
Underwood, Charles W., assignor of one-fourth to F. S. Button and one-fourth to L. L. Reynaud, Crowley, La. Truck. No. 978,517; Dec. 13; Sp. p. 2371; Gaz. vol. 161; p. 409.
Underwood, George R., *et al.* (See Fongeallaz, Eugene, assignor.)
Underwood, Henry A., Halkirk, Alberta, Canada. Hand circular saw. No. 967,087; Aug. 9; Sp. p. 2701; Gaz. vol. 157; p. 444.
Underwood, Henry W., Aurora, Ill. Mold for cement or concrete fence-posts. No. 954,830; Apr. 12; Sp. p. 2488; Gaz. vol. 153; p. 424.
Underwood, Henry W., Aurora, Ill. Cement or concrete fence-post. No. 954,831; Apr. 12; Sp. p. 2489; Gaz. vol. 153; p. 424.
Underwood, Horace A., Kewanee, Ill. Dowel. No. 961,992; June 21; Sp. p. 3644; Gaz. vol. 155; p. 641.
Underwood, James T., Springfield, Mass. Egg-opener. No. 966,269; Aug. 2; Sp. p. 902; Gaz. vol. 157; p. 144.
Underwood, Louis E., Lynn, Mass., assignor to General Electric Company. Motor-driving mechanism. No. 957,277; May 10; Sp. p. 1692; Gaz. vol. 154; p. 296.
Underwood, Louis E., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 960,449; June 7; Sp. p. 415; Gaz. vol. 155; p. 70.
Underwood, Louis E., and S. R. Bergman, Lynn, Mass., assignors to General Electric Company. Dynamo-electric machine. No. 946,813; Jan. 18; Sp. p. 4040; Gaz. vol. 150; p. 670.
Underwood, Louis E., and C. P. Smith, Lynn, Mass., assignors to General Electric Company. Dynamo-electric machine. No. 959,901; May 31; Sp. p. 7513; Gaz. vol. 154; p. 1270.
Underwood, Sidney S. (See Pitt, William A., assignor.)
Underwood, Sidney S., Montreal, Quebec, Canada. Brake-beam hanger. No. 965,964; Aug. 2; Sp. p. 245; Gaz. vol. 157; p. 41.
Underwood, Sidney S., Montreal, Quebec, Canada. Brake-beam hanger. No. 965,965; Aug. 2; Sp. p. 246; Gaz. vol. 157; p. 41.
Underwood, Sidney S., Montreal, Quebec, Canada. Brake-beam hanger. No. 966,141; Aug. 2; Sp. p. 616; Gaz vol. 157; p. 101.
Underwood, Sidney S., Montreal, Quebec, Canada. Brake-beam hanger. No. 966,142; Aug. 2; Sp. p. 617; Gaz. vol. 157; p. 101.
Underwood Typewriter Company. (See Barnard, Walter E., assignor.)
Underwood Typewriter Company. (See Broughton, Lyman D., assignor.)
Underwood Typewriter Company. (See Coo, Thomas J., assignor.)
Underwood Typewriter Company. (See Cook, Frank A., assignor.)
Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
Underwood Typewriter Company. (See Crutchley, Harry, assignor.)
Underwood Typewriter Company. (See Dennis, Adolphus S., assignor.)
Underwood Typewriter Company. (See Doane, John C., assignor.)
Underwood Typewriter Company. (See Fortin, Benjamin P., assignor.)
Underwood Typewriter Company. (See Gibbs, Charles, assignor.)
Underwood Typewriter Company. (See Gibbs and Sokolov, assignors.)
Underwood Typewriter Company. (See Glaeser, Henry, assignor.)
Underwood Typewriter Company. (See Hellstrom, Charles, assignor.)
Underwood Typewriter Company. (See Joerissen, Carl A., assignor.)
Underwood Typewriter Company. (See Kunath, Edward F., assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Landa, Karl, assignor.)
Underwood Typewriter Company. (See Lundeberg, Carl F., assignor.)
Underwood Typewriter Company. (See MacDermott, Charles A., assignor.)
Underwood Typewriter Company. (See Martini, Otto A., assignor.)
Underwood Typewriter Company. (See McCormack, Harry S., assignor.)
Underwood Typewriter Company. (See McLaughlin, John C., assignor.)
Underwood Typewriter Company. (See McLaughlin, William P., assignor.)
Underwood Typewriter Company. (See McLaughlin and Beber, assignors.)
Underwood Typewriter Company. (See Ney, Louis, assignor.)
Underwood Typewriter Company. (See Obernolte, August, assignor.)
Underwood Typewriter Company. (See Pfunder, Emil L., assignor.)
Underwood Typewriter Company. (See Resch, Henry, assignor.)
Underwood Typewriter Company. (See Rice, Charles D., assignor.)
Underwood Typewriter Company. (See Roberts and Davis, assignors.)
Underwood Typewriter Company. (See Robinson, Frank A., assignor.)
Underwood Typewriter Company. (See Ronchetti, Joseph A., assignor.)
Underwood Typewriter Company. (See Rosenhauer, Charles G., assignor.)
Underwood Typewriter Company. (See Smith, Alexander J., assignor.)
Underwood Typewriter Company. (See Smith, Alveus C., assignor.)
Underwood Typewriter Company. (See Smith, Stephen T., assignor.)
Underwood Typewriter Company. (See Smith, Stephen T., Jr., assignor.)
Underwood Typewriter Company. (See Sokolov, Jacob, assignor.)
Underwood Typewriter Company. (See Swenson, Gustaf, assignor.)
Underwood Typewriter Company. (See Uhlig, Richard W., assignor.)
Underwood Typewriter Company. (See Valiant, Robert S., assignor.)
Underwood Typewriter Company. (See Wagner, Herman L., assignor.)

Alphabetical list of patentees—Continued.

Underwood Typewriter Company. (See Young, Frank A., assignor.)
Unge, Wilhelm T., Stockholm, Sweden. Self-propelling projectile. No. 961,179; June 14; Sp. p. 1895; Gaz. vol. 155; p. 344.
Unger, Isaac. (See Crego, Roy D., assignor.)
Unger, Joseph, McKeesport, Pa. Stamp-canceling device. No. 974,845; Nov. 8; Sp. p. 1798; Gaz. vol. 160; p. 289.
Unger, Magnus, Schenectady, N. Y., assignor to General Electric Company. Lighting system. No. 953,404; Mar. 29; Sp. p. 6087; Gaz. vol. 152; p. 1094.
Ungerer, Karl F., and E. Becker, Pforzheim, Germany. Machine for manufacturing metal cords. No. 979,110; Dec. 20; Sp. p. 3683; Gaz. vol. 161; p. 639.
Uni-Typebar. (See Link and Morgan, assignors.)
Uni-Typebar Limited. (See Hyde and Link, assignors.)
Union Boiler Company. (See Bernhard, John B., assignor.)
Union Clay Products Company. (See Powers, Robert D., assignor.)
Union Fibre Company. (See Brown, Alfred G., assignor.)
Union Fibre Company. (See Parkison, Thomas B., assignor.)
Union Lock Stitch Company. (See Cummings, Henry H., assignor.)
Union Lock Stitch Company. (See Merrick, Frank W., assignor.)
Union Paper Bag Company. (See Merritt, Joseph, assignor.)
Union Paper Bag Machine Company. (See Fuller, William C., assignor.)
Union Paper Bag Machine Company. (See Stilwell, Charles B., assignor.)
Union Screen Plate Company. (See Welch, Edward J., assignor.)
Union Shank Company. (See Mower, Edwin F., assignor.)
Union Special Machine Company. (See Onderdonk, Lansing, assignor.)
Union Special Machine Company. (See Weatherwax, Charles L., assignor.)
Union Special Machine Company. (See Woodward, Russel G., assignor.)
Union Special Machine Company. (See Zimmerman and Hughes, assignors.)
Union Special Sewing Machine Co. (See Onderdonk, Lansing, assignor.)
Union Special Sewing Machine Co. (See Woodward, Russel G., assignor.)
Union Switch and Signal Company, The. (See Howard, Lemuel F., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
Union Switch & Signal Company, The. (See McCarthy, Daniel J., assignor.)
Union Switch and Signal Company, The. (See Roett, John D., assignor.)
Union Switch and Signal Company, The. (See Taylor, John D., assignor.)
Union Switch & Signal Company, The. (See Utne, Per, assignor.)
Union Switch & Signal Company, The. (See Wilson, Asbury G., assignor.)
Union Telegraph Company, The. (See Hubbard, Bert S., assignor.)
Union Twist Drill Company. (See McGregor, John A., assignor.)
Union Typewriter Company. (See Barron, Walter J., assignor.)
Union Typewriter Company. (See Crandall, Charles F., assignor.) (Reissue.)
Union Typewriter Company. (See Felbel, Jacob, assignor.)
Union Typewriter Company. (See Fortier, Charles L., assignor.)
Union Typewriter Company. (See Ingram, Oscar L., assignor.)
Union Typewriter Company. (See Nielsen, Stefanus, assignor.)
Union Typewriter Company. (See Paul, John W., assignor.)
Union Typewriter Company. (See Schaaff, John T., assignor.)
Union Typewriter Company. (See Seib, George A., assignor.)
Union Typewriter Company. (See Shepard, Charles H., assignor.)
Union Typewriter Company. (See Sivertsen and Nielsen, assignors.)
Union Typewriter Company. (See Smith, Charles E., assignor.)
Union Typewriter Company. (See Smith, George H., assignor.)
Union Typewriter Company. (See Steele, Herbert H., assignor.)
Union Typewriter Company. (See Steiger, Andrew W., assignor.)
Union Typewriter Company. (See Stickney, Burnham C., assignor.)
Union Typewriter Company. (See Strother, Robert H., assignor.)
Union Typewriter Company. (See Waldheim, John, assignor.)
Union Typewriter Company. (See Woodward, Oscar, assignor.)
Union Water Meter Company. (See Larrabee, William H., assignor.)
Union Wire Mattress Co. (See Powers, George G., assignor.)
Unit Concrete Steel Frame Company. (See Wells, Edmund P., assignor.)
Unit Construction Company. (See Conzelman, John E., assignor.)
Unit Construction Company. (See Meier, Albert J., assignor.)
Unit Steel Cabinet Company, The. (See Mott, Garret, assignor.)
United Beverage Improvement Company, The. (See Marsden and Dahn, assignors.)
United Button Company. (See Spill, Charles J., assignor.)
United Casting Company. (See Noble, William A. E., assignor.)
United Casting Company. (See Noble and Jay, assignors.)
United Cigarette Machine Company, The. (See Crosthwaite, Walter G., assignor.)
United Coke and Gas Company, The. (See Schulte, Eduard, assignor.)
United Concrete Machinery Company. (See Larkin, William H., Jr., assignor.)
United Cork and Seal Company. (See Nielsen, George M. C., assignor.)
United Electric Company, The. (See Goughnour, Charles L., assignor.)
United Electric Protection Company. (See Francis, John C., assignor.)
United Engineering & Foundry Company. (See Biggert, Florence C., Jr., assignor.)
United Engineering & Foundry Company. (See Ellis, Frank I., assignor.)
United Engineering & Foundry Company. (See Pennington, Harley D., assignor.)
United Gas Improvement Company, The. (See Taussig, John H., assignor.)
United Injector Company, The. (See Park, William R., assignor.)
United Lace & Braid Mfg. Co. (See Richardson, Frederick, assignor.)
United Railways Company of Saint Louis. (See Seiser, Charles R., assignor.)
United Revolving Door Company. (See Clymer and Degen, assignors.)
United Rim Company, The. (See Bryant, Richard S., assignor.)
United Rim Company, The. (See Gammeter, John R., assignor.)
United Rim Company, The. (See Shaw, Edwin C., assignor.)
United Shirt & Collar Company. (See Pine, James K. P., assignor.)
United Shoe Machinery Company. (See Alley, Frederick L., assignor.)
United Shoe Machinery Company. (See Ambler, George A., assignor.)
United Shoe Machinery Company. (See Arnold, Ezra P., assignor.)
United Shoe Machinery Company. (See Ashton, Orrell, assignor.)
United Shoe Machinery Company. (See Bates, Arthur, assignor.)
United Shoe Machinery Company. (See Bates and Pride, assignors.)
United Shoe Machinery Company. (See Bayley and Mayo, assignors.)
United Shoe Machinery Company. (See Brock, Mathias, assignor.)
United Shoe Machinery Company. (See Buckminster, Ira C., assignor.)
United Shoe Machinery Company. (See Busell, John N., assignor.)
United Shoe Machinery Company. (See Cavanagh, James, Jr., assignor.)
United Shoe Machinery Company. (See Cutter, Solomon M., assignor.)
United Shoe Machinery Company. (See Davenport, Eugene F., assignor.)
United Shoe Machinery Company. (See Davey, John F., assignor.)
United Shoe Machinery Company. (See Dorsey, Farnum F., assignor.)
United Shoe Machinery Company. (See Dow, John L., assignor.)
United Shoe Machinery Company. (See Dunphy, James A., assignor.)
United Shoe Machinery Company. (See Eaton, Clarence L., assignor.)
United Shoe Machinery Company. (See Elliott, Alvin D., assignor.)
United Shoe Machinery Company. (See Engel, Karl, assignor.)
United Shoe Machinery Company. (See Eppler, Andrew, assignor.)

Alphabetical list of patentees—Continued.

United Shoe Machinery Company. (See Flynt, Louis W. G., assignor.)
United Shoe Machinery Company. (See Fowler, Alfred B., assignor.)
United Shoe Machinery Company. (See Freeman, Edwin T., assignor.)
United Shoe Machinery Company. (See Fuller, Frederick R., assignor.)
United Shoe Machinery Company. (See Gale, Laburton A., assignor.)
United Shoe Machinery Company. (See Goddu, George, assignor.)
United Shoe Machinery Company. (See Gouldbourn, Joseph, assignor.)
United Shoe Machinery Company. (See Hadaway, John B., assignor.)
United Shoe Machinery Company. (See Heffernan, Eduard F., assignor.)
United Shoe Machinery Company. (See Johnson, Albert E., assignor.)
United Shoe Machinery Company. (See Keith, Thomas K., assignor.)
United Shoe Machinery Company. (See Ladd, Sherman W., assignor.)
United Shoe Machinery Company. (See Leland, Sanford D., assignor.)
United Shoe Machinery Company. (See Lund, Thomas, assignor.)
United Shoe Machinery Company. (See Mayo, Benjamin F., assignor.)
United Shoe Machinery Company. (See McFeely, Ronald F., assignor.)
United Shoe Machinery Company. (See Morse, William B., assignor.)
United Shoe Machinery Company. (See Nash, Frederick J., assignor.)
United Shoe Machinery Company. (See Prindle, Edwin J., assignor.)
United Shoe Machinery Company. (See Scott, Jacob R., assignor.)
United Shoe Machinery Company. (See Shaw, Linus H., assignor.)
United Shoe Machinery Company. (See Sherman, Fred S., assignor.)
United Shoe Machinery Company. (See Smith, Willard A., assignor.)
United Shoe Machinery Company. (See Snow, Stephen, assignor.)
United Shoe Machinery Company. (See Spencer, Herschel D., assignor.)
United Shoe Machinery Company. (See Stiggins, Edward A., assignor.)
United Shoe Machinery Company. (See Thayer, Joseph E., assignor.)
United Shoe Machinery Company. (See Wadsworth and Shortland, assignors.)
United Shoe Machinery Company. (See Wheeler, Walter O., assignor.)
United Shoe Machinery Company. (See Whitcher and Randall, assignors.)
United Shoe Machinery Company. (See Winkley, Erastus E., assignor.)
United Shoe Machinery Company. (See Winter, Henry W., assignor.)
United Shoe Machinery Company. (See Winter and Conlon, assignors.)
United Special Machine Company. (See McNeil, Chester, assignor.)
United States Carbo-Welding Company of Delaware. (See Simpson, William S., assignor.)
United States Cast Iron Pipe and Foundry Company. (See Field, Furman A., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Giles, David, assignor.)
United States Chemical Company, The. (See Andrews, George E., assignor.)
United States Coal & Coke Company. (See Buffum, Eavenson and O'Toole, assignors.)
United States Cotton Seed Oil Company. (See Worth, William E., assignor.)
United States Electric Company. (See Gill, Edwin R., assignor.)
United States Electrical Manufacturing Company. (See Johnson, Carl E., assignor.)
United States Envelope Company. (See Graves, Francis C., assignor.)
United States Envelope Company. (See Graves and Olin, assignors.)
United States Envelope Company. (See Laubscher, August, assignor.)
United States Envelope Company. (See Swift, Willard E., assignor.)
United States Envelope Company. (See Williams, Harry J., assignor.)
United States Fastener Company. (See Humphrey, Ernest N., assignor.)
United States Fibre Stopper Company. (See Ketcheson, John H., assignor.)
United States Fibre Stopper Company. (See Ketcheson and Goeb, assignors.)
United States Graphotype Company. (See Nicholas, William, assignor.)
United States Graphotype Company. (See Nicholas and Ackerman, assignors.)
United States Graphotype Company. (See West, Kirke, assignor.)
United States Gypsum Company. (See Knode, Oliver M., assignor.)
United States Light & Heating Company, The. (See McElroy, James F., assignor.)
United States Mail Chute Equipment Company. (See Ehrlich, Leo, assignor.)
United States Malleable Iron Company, The. (See Good, Edgar, assignor.)
United States Phonograph Company, The. (See Harris, Varian M., assignor.)
United States Phonograph Company, The. (See McNulty, Harry B., assignor.)
United States Radiator Company. (See Danforth, Montgomery E., assignor.)
United States Radiator Company. (See Martin, Harry S., assignor.)
United States Sanitary Manufacturing Company. (See Danver, James H., assignor.)
United States Sealing Company, The. (See Beals, Frank H., assignor.)
United States Stone Saw Company, The. (See Hanson, Fred P., assignor.)
United States Stone Saw Company, The. (See Hanson and Arnold, assignors.)
United States Whip Company. (See McLaughlin and Beman, assignors.)
United Vacuum Appliance Company. (See Clifton and Preston, assignors.)
United Wireless Telegraph Company. (See Babcock, Clifford D., assignor.)
United Wireless Telegraph Company, The. (See Marriott, Robert H., assignor.)
United-Xpedite Finishing Company. (See Pease, Charles, assignor.)
Universal Adding Machine Company. (See Rinsche, Frank C., assignor.)
Universal Adding Machine Company. (See Wilson, William W., assignor.)
Universal Caster & Foundry Company. (See Diss, Albert B., assignor.)
Universal Electric Economy Company. (See Woodley, Alfred, assignor.)
Universal Electric Welding Co. (See Lachman, Maurice and L. S., assignors.)
Universal Electric Welding Company. (See Lachman, Laurence S., assignor.) (Reissue.)
Universal Electric Welding Company. (See Lachman, Maurice, assignor.)
Universal Motor Company, The. (See Rhodes, Harry A., assignor.)
Universal Recorder Manufacturing Company. (See Schantz, Edwin M., assignor.)
Universal Tool Company. (See Palmer, John M., assignor.)
Universal Wind Shield Company. (See Parizek, Frank, assignor.)
Universal Winding Company. (See Rand, Festus S., assignor.)
Unruh, Max von, Charlottenburg, Germany. Manufacture of incandescent bodies for gas-lights. No. 949,010; Feb. 15; Sp. p. 2594; Gaz. vol. 151; p. 465.
Unruh, Victor von, New York, N. Y. Speculum. No. 977,489; Dec. 6; Sp. p. 138; Gaz. vol. 161; p. 24.
Unverzagt, Charles H. (See Hamlin, Pulaski M., assignor.)
Updegraff, William B., Bridgeport, Conn. Desk book-rack. No. 945,877; Jan. 11; Sp. p. 1943; Gaz. vol. 150; p. 323.
Updegraff, William B., New York, N. Y. Dumb-waiter. No. 957,015; May 3; Sp. p. 1121; Gaz. vol. 154; p. 176.
Upham, Burt F., Boston, Mass., assignor to C. B. Cottrell and Sons Company, Jersey City, N. J., and Westerly, R. I. Printing-surface and producing the same. No. 979,111; Dec. 20; Sp. p. 3687; Gaz. vol. 161; p. 639.
Upham, George B. (See Wilkinson and Upham.)
Upham, William H., assignor to E. L. Cole, Toledo, Ohio. Pneumatic cash-carrier. No. 947,872; Feb. 1; Sp. p. 212; Gaz. vol. 151; p. 33.
Upington, George. (See Lonney, Thomas F., assignor.)
Upshaw, Foy, Collinsville, Tex. Cultivator. No. 948,262; Feb. 1; Sp. p. 982; Gaz. vol. 151; p. 162.
Upshaw, George S., Kansas City, Mo. Filing-cabinet. No. 945,252; Jan. 4; Sp. p. 515; Gaz. vol. 150; p. 84.
Upson, Charles H., Waterbury, Conn. Casting metal. No. 974,934; Nov. 8; Sp. p. 1943; Gaz. vol. 160; p. 320.
Upson, Edwin L., and F. J. Dole, New York, N. Y., assignors to Diamond Expansion Bolt Company. Conduit-rod or coupling therefor. No. 967,862; Aug. 16; Sp. p. 4284; Gaz. vol. 157; p. 733.
Upton, George W. (See Bush, Benjamin O., assignor.)
Urbach, Gustave A., Pittsburg, Pa. Spraying device. No. 968,210; Aug. 23; Sp. p. 5068; Gaz. vol. 157; p. 874.
Urbahns, Anthony, Minden, Iowa. Phonograph-reproducer. No. 970,142; Sept. 13; Sp. p. 2132; Gaz. vol. 158; p. 363.

Urban, Albert F., Highland, Ill. Fastener for display-box fronts. No. 955,563; Apr. 19; Sp. p. 4017; Gaz. vol. 153; p. 704.
Urban, August C. (See Urban, Joseph P. and A. C.)
Urban, Joseph P., Detroit, Mich. Garbage-receptacle. No. 972,948; Oct. 18; Sp. p. 3186; Gaz. vol. 159; p. 554.
Urban, Joseph P. and A. C., Detroit, Mich. Garbage-receptacle. No. 956,454; Apr. 26; Sp. p. 5997; Gaz. vol. 153; p. 1041.
Urbántsek, Margit, Budapest, Austria-Hungary. Tool for patterning piled fabrics. No. 954,483; Apr. 12; Sp. p. 1677; Gaz. vol. 153; p. 304.
Urbanz, Jackob, Porter, Wash. Cable-splicer. No. 959,407; May 24; Sp. p. 6440; Gaz. vol. 154; p. 1078.
Urie, James W., assignor of one-half to J. S. Urie, Carson City, Mich. Mold. No. 952,387; Mar. 15; Sp. p. 3873; Gaz. vol. 152; p. 693.
Urie, John S. (See Urie, James W., assignor.)
Urista, Adolfo M., Mexico, Mexico. Composition for preventing scale in boilers. No. 950,582; Mar. 1; Sp. p. 250; Gaz. vol. 152; p. 41.
Urquhart, Henry H., Paducah, Ky. Brake-shoe. No. 951,350; Mar. 8; Sp. p. 1802; Gaz. vol. 152; p. 317.
Urschel, William E., Valparaiso, Ind. Berry-stem remover. No. 949,454; Feb. 15; Sp. p. 3509; Gaz. vol. 151; p. 613.
Usher, Charles E. D., assignor to Adair-Usher Process Limited, Johannesburg, Transvaal. Treatment of sands or the like with liquids. No. 949,455; Feb. 15; Sp. p. 3511; Gaz. vol. 151; p. 613.
Usher, Charles E. D., assignor to Adair-Usher Process Limited, Johannesburg, Transvaal. Fluid-distributing pipe for ore-treatment vats. No. 965,767; July 26; Sp. p. 5983; Gaz. vol. 156; p. 1017.
Usini de Desargentation Société Anonyme. (See Maschmeyer, Hermann, assignor.)
Ustynik, Frank E. (See Soucek and Ustynik.)
Utendörfer, Wilhelm. (See Weber, Karl, assignor.)
Utica Drop Forge & Tool Company. (See Kellemen, Henry F., assignor.)
Utica Industrial Company. (See Graham, Charles W., assignor.)
Utley, James S., Chicago, Ill. Postal-money-order packet. No. 975,737; Nov. 15; Sp. p. 3684; Gaz. vol. 160; p. 621.
Utley, John H., Camden, N. J. Purifying animal charcoal and the product thereof. No. 947,503; Jan. 25; Sp. p. 5596; Gaz. vol. 150; p. 929.
Utley, John H., assignor of one-third to H. J. Webster, Camden, N. J., and one-third to W. M. Hardie, Pittsburg, Pa. Bone-black filter for clarifying gelatin liquors and the like. No. 961,180; June 14; Sp. p. 1897; Gaz. vol. 155; p. 344.
Utne, Per, New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Signaling system for railways. No. 953,243; Mar. 29; Sp. p. 5734; Gaz. vol. 152; p. 1039.
Utne, Per, New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Alternating-current motor. No. 964,714; July 19; Sp. p. 3768; Gaz. vol. 156; p. 627.
Utt, Will, Jr., Bruceville, Ind. Knotter for grain-binders. No. 970,359; Sept. 13; Sp. p. 2587; Gaz. vol. 158; p. 437.
Utterback, George M., assignor to Utterback Manufacturing Company, Seattle, Wash. Toilet and dressing table. No. 970,143; Sept. 13; Sp. p. 2132; Gaz. vol. 158; p. 364.
Utterback Manufacturing Company. (See Utterback, George M., assignor.)
Utz, John G., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Induction-conduit for explosion-engines. No. 968,002; Aug. 23; Sp. p. 4587; Gaz. vol. 157; p. 804.
Utzman, Clarence W., Oakfield, N. Y. Elevator-boot. No. 977,908; Dec. 6; Sp. p. 1058; Gaz. vol. 161; p. 168.
V. D. Anderson Company, The. (See Anderson, Frank B., assignor.)
Vacher, Clément, Kelowna, British Columbia, Canada. Nozzle. No. 964,945; July 19; Sp. p. 4236; Gaz. vol. 156; p. 708.
Vacher, Clément, Kelowna, British Columbia, Canada. Nozzle. No. 964,946; July 19; Sp. p. 4237; Gaz. vol. 156; p. 708.
Vaco Manufacturing Co. (See Schroeder, Florence P., assignor.)
Vacuna Company, The. (See Serrell, Lemuel W., assignor.)
Vacuum Car Ventilating Company. (See Cooke, Dwight I., assignor.)
Vacuum Cleaner Company, The. (See Kenney, David T., assignor.)
Vacuum Cleaner Company, The. (See Raymond and Baker, assignors.)
Vacuum Oil Company. (See Bradfield, George K., assignor.)
Vacuum Specialty Manufacturing Company. (See Bennett, George S., assignor.)
Vadeboncoeur, Antoine F. (See Latulip, Fred, assignor.)
Vaghi, Joseph, Bethel, Conn. Folding boat. No. 955,020; Apr. 12; Sp. p. 2891; Gaz. vol. 153; p. 489.
Vagt, August, Mülheim-on-the-Rhine, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Reduction products of commercial nitrobenzaldehyde. No. 961,915; June 21; Sp. p. 3479; Gaz. vol. 155; p. 616.
Vail, Charles C., Columbus, Ohio. Gas-fire-lighting device. No. 956,868; May 3; Sp. p. 803; Gaz. vol. 154; p. 127.
Vail, George L., Denver, Colo. Ice-making system. No. 979,112; Dec. 20; Sp. p. 3690; Gaz. vol. 161; p. 640.
Vail, George M., New York, N. Y. Garment-rack. No. 954,364; Apr. 5; Sp. p. 1417; Gaz. vol. 153; p. 235.
Vail and Hunt Company. (See Hunt, Ozello R., assignor.)
Vail, Peter E. (See Douglass and Willett, assignors.)
Vakuum-Pressgut Gesellschaft m. b. H. (See Schlomann, Alfred, assignor.)
Valdez Creek Consolidated Mining Company. (See Merritt, Warren H., assignor.)
Vale, Andrew M., Sheridanville, assignor of one-half to J. C. Greiner, Pittsburg, Pa. Film attachment for cameras. No. 968,716; Aug. 30; Sp. p. 6162; Gaz. vol. 157; p. 1076.
Vale, Olive, Alameda, Cal. Toilet accessory. No. 957,016; May 3; Sp. p. 1122; Gaz. vol. 154; p. 176.
Valentine, Ralph E. (See Holmes and Valentine.)
Valentine, Warren P., Westfield, N. J., assignor to International Steam Pump Company, New York, N. Y. Gas-engine. No. 945,296; Jan. 4; Sp. p. 632; Gaz. vol. 150; p. 98.
Valentine, Warren P., Holyoke, Mass., assignor to International Steam Pump Company. Gas-engine. No. 945,297; Jan. 4; Sp. p. 634; Gaz. vol. 150; p. 99.
Valentiner, Frederick W. S., deceased, Leipzig; A. V. Richter, administrator, assignor to Valentiner and Schwarz, Leipzig-Plagwitz, Germany. Producing a sulfur compound of quinin. No. 953,187; Mar. 29; Sp. p. 5617; Gaz. vol. 152; p. 1021.
Valentiner and Schwarz. (See Valentiner, Frederick W. S., assignor.)
Valiant, Robert S., Baltimore, Md., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 949,720; Feb. 15; Sp. p. 4024; Gaz. vol. 151; p. 700.
Valind, Joseph, assignor of one-half to G. Rouleau, Gladstone, Mich. Grab hat-pin. No. 979,229; Dec. 20; Sp. p. 3949; Gaz. vol. 161; p. 682.
Valiquet, Louis P., New York, N. Y., assignor, by mesne assignments, to Victor Talking Machine Company. Sound-box for talking-machines. No. 946,589; Jan. 18; Sp. p. 3528; Gaz. vol. 150; p. 594.
Valiquet, Louis P., New York, N. Y., assignor, by mesne assignments, to Victor Talking Machine Company. Sound-box for talking-machines. No. 947,534; Jan. 25; Sp. p. 5656; Gaz. vol. 150; p. 940.
Valiquett, Joseph J., and C. F. Roush, Toledo, Ohio. Sand-tempering machine. No. 978,961; Dec. 20; Sp. p. 3331; Gaz. vol. 161; p. 587.
Valk, James, Topeka, Kans. Centrifugal pump. No. 961,993; June 21; Sp p. 3645; Gaz. vol. 155; p. 641.
Vallat, René, assignor to G. A. Pfizter, Paris, France. Distilling and rectifying apparatus. No. 974,213; Nov. 1; Sp. p. 249; Gaz. vol. 160; p. 41.
Valle, Bert S., Colbran, Colo. Nut-lock. No. 961,049; June 7; Sp. p. 1627; Gaz. vol. 155; p. 272.
Vallem, Andrew, Ruthton, Minn. Wire-stretcher. No. 978,240; Dec. 13; Sp. p. 1784; Gaz. vol. 161; p. 313.
Valley City Machine Works. (See Brochu, Michael, assignor.)
Vallone, Charles. (See Rogers and Vallone.)
Vallone, Charles, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Bed-bottom. No. 946,173; Jan. 11; Sp. p. 2569; Gaz. vol. 150; p. 426.
Vallone, Charles, and F. R. Rogers, assignors to Barcalo Manufacturing Company, Buffalo, N. Y. Securing device for bedstead-frames. No. 950,311; Feb. 22; Sp. p. 5365; Gaz. vol. 151; p. 942.
Vallone, Charles, and F. R. Rogers, assignors to Barcalo Manufacturing Company, Buffalo, N. Y. Machine for inserting nuts or disks in tubes. No. 970,669; Sept. 20; Sp. p. 3271; Gaz. vol. 158; p. 564.
Vallone, Charles, and F. R. Rogers, assignors to Barcalo Manufacturing Company, Buffalo, N. Y. Dip painting-machine. No. 980,030; Dec. 27; Sp. p. 5649; Gaz. vol. 161; p. 973.
Valveless Flush-Tank Company, The. (See Moise, Harmon D., assignor.)
"Valveless" Limited. (See Lucas, Ralph, assignor.)
Van Aken, John C., Ridgway, Pa. Flower-holding and grave-covering device. No. 961,994; June 21; Sp. p. 3648; Gaz. vol. 155; p. 642.
Van Aller, Tycho, Schenectady, N. Y., assignor to General Electric Company. Electric heating unit. No. 971,101; Sept. 27; Sp. p. 4182; Gaz. vol. 158; p. 738.
Van Aller, Tycho, Schenectady, N. Y., assignor to General Electric Company. Soldering-iron. No. 973,592; Oct. 25; Sp. p. 4567; Gaz. vol. 159; p. 797.
Van Aller, Tycho, Schenectady, N. Y., assignor to General Electric Company. Electric flat-iron. No. 973,593; Oct. 25; Sp. p. 4568; Gaz. vol. 159; p. 797.
Van Alstyn, Albert T., Stamford, Conn. Clasp. No. 973,147; Oct. 18; Sp. p. 3610; Gaz. vol. 159; p. 622.
Van Alstyn, Albert T., Stamford, Conn. Clasp. No. 973,148; Oct. 18; Sp. p. 3612; Gaz. vol. 159; p. 623.

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Van Alstyne, Howard M., and W. Bell, Rensselaer, N. Y. Rotary engine. No. 955,925; Apr. 26; Sp. p. 4845; Gaz. vol. 153; p. 857.
Van Altena, Henry, New Brunswick, N. J. Slack-spool for electric wiring. No. 963,666; July 5; Sp. p. 1401; Gaz. vol. 156; p. 219.
Van Anden, Frank, New York, N. Y. Memorandum device. No. 978,962; Dec. 20; Sp. p. 3334; Gaz. vol. 161; p. 587.
Van Atta, Fred E. (See Choate, Charles N., assignor.)
Van Auken, Byron E. (See Gordon, Edward B., Jr., assignor.)
Van Auken, Byron E., Chicago, Ill. Valve mechanism for discharging air and water of condensation from steam-heating systems. No. 951,751; Mar. 8; Sp. p. 2607; Gaz. vol. 152; p. 451.
Van Auken, Byron E., Chicago, Ill. Valve mechanism for discharging air and water of condensation from steam-heating systems. No. 951,752; Mar. 8; Sp. p. 2615; Gaz. vol. 152; p. 452.
Van Berkel, Wilhelmus A., Rotterdam, Netherlands. Machine for slicing German sausages, &c. (Reissue.) No. 13,180; Dec. 6; Sp. p. 1530; Gaz. vol. 161; p. 247.
Van Berkel, Wilhelmus A., Rotterdam, Netherlands, assignor to Van Berkel's Slicing Machine Manufacturing Company, Limited, London, England. Device for sharpening the rotary circular knives of meat-slicing machines. No. 947,606; Jan. 25; Sp. p. 5805; Gaz. vol. 150; p. 964.
Van Berkel's Slicing Machine Manufacturing Company. (See Van Berkel, Wilhelmus A., assignor.)
Van Bibber, Oscar J., Oswego, Kans. Rail brace or clamp. No. 979,230; Dec. 20; Sp. p. 3950; Gaz. vol. 161; p. 682.
Van Bosch, Peter M., assignor of one-third to E. C. Ecker and one-third to W. Kabitzke, Chicago, Ill. Piston-rod connection. No. 974,935; Nov. 8; Sp. p. 1944; Gaz. vol. 160; p. 321.
Van Brunt Mfg. Co., The. (See Van Brunt, Willard A., assignor.)
Van Brunt, Willard A., assignor to The Van Brunt Mfg. Co., Horicon, Wis. Grass-seeding attachment for grain-drills. No. 964,715; July 19; Sp. p. 3770; Gaz. vol. 156; p. 627.
Van Buren, Jafew S., Albany, N. Y. Molder's flask and match-plate. No. 955,021; Apr. 12; Sp. p. 2894; Gaz. vol. 153; p. 490.
Van Buren, Thomas H., Grand Junction, assignor of one-fourth to C. G. Smith, Palisades, Colo. Carbureter. No. 951,923; Mar. 15; Sp. p. 2987; Gaz. vol. 152; p. 541.
Van Caeyseele, Hector, Salem, Ill. Building blocks and wall. No. 955,230; Apr. 19; Sp. p. 3319; Gaz. vol. 153; p. 592.
Van Camp, Charles B., Atkins, Mich. Railway-switch. No. 968,293; Aug. 23; Sp. p. 5249; Gaz. vol. 157; p. 903.
Van Camp, Edward, Brookston, Ind. Cash-register. No. 953,649; Mar. 29; Sp. p. 6595; Gaz. vol. 152; p. 1178.
Van Camp, Orblin, St. Thomas, N. D. Grain-car door. No. 953,244; Mar. 29; Sp. p. 5736; Gaz. vol. 152; p. 1040.
Van Cise, Ray E. (See Reymore and Van Cise.)
Van Cleave, Franklin B., Echo, Oreg. Folding step-ladder. No. 964,587; July 19; Sp. p. 3413; Gaz. vol. 156; p. 583.
Van Cleave, Lee W. (See Dix and Van Cleave.)
Van Cleave, Robert A., Philadelphia, Pa. Nursing-bottle. No. 979,607; Dec. 27; Sp. p. 4735; Gaz. vol. 161; p. 831.
Van Cott, Frank J., Unadilla, N. Y. Door for silos. No. 976,951; Nov. 29; Sp. p. 6347; Gaz. vol. 160; p. 1086.
Van Court, George H., and E. I. Marks, Chicago, Ill.; said Marks assignor to said Van Court. Machine for vending slugs. No. 961,916; June 21; Sp. p. 3480; Gaz. vol. 155; p. 616.
Van Dandaigue, Jean J., Montreal, Quebec, Canada. Formalin-vaporizer. No. 965,966; Aug. 2; Sp. p. 248; Gaz. vol. 157; p. 42.
Van der Linde, Harold T. G., New York, N. Y. Recovery of rubber. No. 979,902; Dec. 27; Sp. p. 5382; Gaz. vol. 161; p. 930.
Van Deusen, George E., assignor to W. A. Van Deusen, Cleveland, Ohio. Ball-cock. No. 948,748; Feb. 8; Sp. p. 2051; Gaz. vol. 151; p. 351.
Van Deusen, William A. (See Van Deusen, George E., assignor.)
Van Doren, Alice M. (See Van Doren, Chester J., assignor.)
Van Doren, Chester J., Chanute, Kans., assignor, by mesne assignments, to A. M. Van Doren, Grand Rapids, Mich. Lubricator. No. 954,600; Apr. 12; Sp. p. 1932; Gaz. vol. 153; p. 343.
Van Dorn & Dutton Company, The. (See Hafemeister, William C., assignor.)
Van Dorn, William T., Chicago, Ill. Guiding and locking means for M. C. B. couplings. No. 955,022; Apr. 12; Sp. p. 2897; Gaz. vol. 153; p. 490.
Van Dusen, Elizabeth, Los Angeles, Cal. Model-form for garment-fitting. No. 974,936; Nov. 8; Sp. p. 1945; Gaz. vol. 160; p. 321.
Van Dusen, Israel C. and W. W., Bison, Okla. Stack-cover. No. 950,684; Mar. 1; Sp. p. 471; Gaz. vol. 152; p. 76.
Van Dusen, William W. (See Van Dusen, Israel C. and W. W.)
Van Duzee, Charles E. (See Fowler, Benjamin F., assignor.)
Van Duzer, Albert, Loleta, Cal. Buckle. No. 967,588; Aug. 16; Sp. p. 3740; Gaz. vol. 157; p. 643.
Van Duzer, Clarence E., Cleveland, Ohio. Stamp-affixing machine. No. 971,940; Oct. 4; Sp. p. 937; Gaz. vol. 159; p. 159.
Van Dyck Gravure Company, The. (See Van Middlesworth, Charles, assignor.)
Van Dyken, Harry, Two Harbors, Minn. Fluid-equalizing support for vehicles. No. 956,455; Apr. 26; Sp. p. 5999; Gaz. vol. 153; p. 1041.
Van Eps, Fred F., North Plainfield, N. J. Gem grinder and polisher. No. 962,274; June 21; Sp. p. 4276; Gaz. vol. 155; p. 739.
Van Every, John W., Van, Mich. Attachment for harness. No. 963,962; July 12; Sp. p. 2076; Gaz. vol. 156; p. 339.
Van Gorder, Greenleaf S., assignor to Textile Specialty Company, Pike, N. Y. Bandage. No. 978,794; Dec. 13; Sp. p. 2967; Gaz. vol. 161; p. 502.
Van Guelpen, Otto H., assignor to Benziger Brothers, New York, N. Y. Candelabrum. No. 958,568; May 17; Sp. p. 4692; Gaz. vol. 154; p. 771.
Van Heusen, Richard F., Flatbush, N. Y. Hat-fastening device. No. 966,781; Aug. 9; Sp. p. 2059; Gaz. vol. 157; p. 343.
Van Hirtum, Leo, Newark, N. J. Photographic-printing frame. No. 977,525; Dec. 6; Sp. p. 246; Gaz. vol. 161; p. 36.
Van Horn, Leland L., Postville, Iowa. Railway-tie. No. 978,413; Dec. 13; Sp. p. 2156; Gaz. vol. 161; p. 375.
Van Horn, William H., assignor to C. M. Kemp, Baltimore, Md. Sad-iron heater. No. 976,952; Nov. 29; Sp. p. 6349; Gaz. vol. 160; p. 1087.
Van Houten, Frank H., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Dough-mixing machine. No. 969,311; Sept. 6; Sp. p. 330; Gaz. vol. 158; p. 55.
Van Houten, Frank H., and D. J. Hanna, assignors to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Door for bakers' ovens. No. 969,312; Sept. 6; Sp. p. 331; Gaz. vol. 158; p. 55.
Van Kannel Revolving Door Company. (See Van Kannel, Theophilus, assignor.)
Van Kannel, Theophilus, New York, N. Y. Amusement apparatus with undulating floor. No. 953,724; Apr. 5; Sp. p. 80; Gaz. vol. 153; p. 17.
Van Kannel, Theophilus, New York, N. Y., assignor to Van Kannel Revolving Door Company. Revolving door with non-concentric casing. No. 947,504; Jan. 25; Sp. p. 5598; Gaz. vol. 150; p. 930.
Van Keuren, Charles H., Jersey City, N. J. Trap for shell-fish. No. 973,594; Oct. 25; Sp. p. 4570; Gaz. vol. 159; p. 797.
Van Keuren, Herbert H., Baldwin, Kans. Collapsible geographical globe. No. 952,119; Mar. 15; Sp. p. 3353; Gaz. vol. 152; p. 603.
Van Leir, Henry W., Philadelphia, Pa., assignor to S. S. Wenzell Machine Company, Charlestown, W. Va. Bottle-filling machine. No. 966,270; Aug. 2; Sp. p. 903; Gaz. vol. 157; p. 144.
Van Leir, Henry W., Philadelphia, Pa., assignor to S. S. Wenzell Machine Company, Charleston, W. Va. Bottle-washing machine. No. 968,901; Aug. 30; Sp. p. 6540; Gaz. vol. 157; p. 1139.
Van Leir, Henry W., Philadelphia, Pa., assignor to S. S. Wenzell Machine Company, Charleston, W. Va. Brush for bottle-washing machines. No. 968,902; Aug. 30; Sp. p. 6543; Gaz. vol. 157; p. 1139.
Van Loon, William G. (See Robinson, Frank A., assignor.)
Van Luven, Mary E., Oakland, Cal. Carton. No. 968,294; Aug. 23; Sp. p. 5250; Gaz. vol. 157; p. 904.
Van Mater, Joseph A., Plainfield, assignor to The New Jersey Zinc Company, Newark, N. J. Ore-sampling apparatus. No. 946,744; Jan. 18; Sp. p. 3862; Gaz. vol. 150; p. 645.
Van Matre, Jennings, Paso Robles, Cal. Draft-equalizer. No. 957,821; May 10; Sp. p. 2792; Gaz. vol. 154; p. 479.
Van Matre, Jennings, Paso Robles, Cal. Draft-equalizer. No. 960,126; May 31; Sp. p. 8024; Gaz. vol. 154; p. 1348.
Van Matre, Joseph, Newcastle, Ind. Road scraper and grader. No. 963,963; July 12; Sp. p. 2077; Gaz. vol. 156; p. 339.
Van Middlesworth, Charles, Brooklyn, assignor to The Van Dyck Gravure Company, New York, N. Y. Gripper mechanism. No. 952,285; Mar. 15; Sp. p. 3687; Gaz. vol. 152; p. 659.
Van Middlesworth, Charles, Brooklyn, assignor to Van Dyck Gravure Company, New York, N. Y. Expansible bearing. No. 962,602; June 28; Sp. p. 5010; Gaz. vol. 155; p. 876.
Van Middlesworth, Charles, Brooklyn, assignor to The Van Dyck Gravure Company, New York, N. Y. Gripper mechanism. No. 965,128; July 19; Sp. p. 4589; Gaz. vol. 156; p. 766.
Van Newkirk, James W., Oshkosh, Nebr. Window-pane fastener. No. 954,484; Apr. 12; Sp. p. 1678; Gaz. vol. 153; p. 304.

Van Norman, Frederick D., Springfield, Mass. Tool-holder for lathes. No. 979,903; Dec. 27; Sp. p. 5388; Gaz. vol. 161; p. 931.
Van Nostran, Joseph E., Upper Sandusky, Ohio. Stop-cock. No. 970,281; Sept. 13; Sp. p. 2438; Gaz. vol. 158; p. 411.
Van Nostrand, Charles H., Omaha, Nebr. Rotary plow. No. 955,297; Apr. 19; Sp. p. 3453; Gaz. vol. 153; p. 613.
Van Nostrand, William, Dalton, N. Y. Millstone-dressing. No. 968,818; Aug. 30; Sp. p. 6364; Gaz. vol. 157; p. 1110.
Van Orden, John M. (See Munro, James H., assignor.)
Van Ormer, Herman, Hartford, Conn., assignor to Liberty Manufacturing Company, Pittsburg, Pa. Rotary motor. No. 969,010; Aug. 30; Sp. p. 6748; Gaz. vol. 157; p. 1176.
Van Ostrand, Cliffton J., assignor of one-half to W. B. Shriver, Ashland, Ohio. Watering-trough. No. 968,613; Aug. 30; Sp. p. 5908; Gaz. vol. 157; p. 1041.
Van Pelt, George H. (See Patterson, Oscar M., assignor.)
Van Pelt, Stanley F., Indianapolis, Ind. Shoe-creasing machine. No. 974,214; Nov. 1; Sp. p. 251; Gaz. vol. 160; p. 41.
Van Pietersom, William, and F. Flerlage, Milwaukee, Wis. Flat-iron heater. No. 968,903; Aug. 30; Sp. p. 6544; Gaz. vol. 157; p. 1139.
Van Ranst, Samuel B., assignor to Crouse-Hinds Company, Syracuse, N. Y. Incandescent-electric-lamp socket. No. 979,608; Dec. 27; Sp. p. 4736; Gaz. vol. 161; p. 831.
Van Riper, Clarence A., Hudson, Mich. Cement culvert. No. 951,226; Mar. 8; Sp. p. 1537; Gaz. vol. 152; p. 277.
Van Riper, Lewis C., assignor to Bright Manufacturing Company, Chicago, Ill. Envelop. No. 958,785; May 24; Sp. p. 5152; Gaz. vol. 154; p. 868.
Van Ronk, Alice M., New York, N. Y. Liquid-receptacle. No. 959,657; May 31; Sp. p. 6981; Gaz. vol. 154; p. 1188.
Van Sant, William S., Oakland, Cal. Amusement apparatus. No. 965,768; July 26; Sp. p. 5985; Gaz. vol. 156; p. 1017.
Van Sant, William S., Oakland, Cal. Amusement apparatus. No. 969,313; Sept. 6; Sp. p. 333; Gaz. vol. 158; p. 55.
Van Sant, William S., assignor of one-fourth to L. H. Spott and one-fourth to E. M. De Laney, Oakland, Cal. Stopper attachment for cans. No. 945,643; Jan. 4; Sp. p. 1363; Gaz. vol. 150; p. 212.
Van Saun, Peter E., New York, N. Y. Roller crushing-mill. No. 964,070; July 12; Sp. p. 2296; Gaz. vol. 156; p. 378.
Van Schaick, Alvaro G., and E. L. Catlin, Rome, N. Y. Block-making machine. No. 967,467; Aug. 16; Sp. p. 3481; Gaz. vol. 157; p. 600.
Van Sickel, Wilber H., Philadelphia, Pa., assignor to Thos. H. Dallett Co. Stone-dressing machine. No. 971,577; Oct. 4; Sp. p. 142; Gaz. vol. 159; p. 26.
Van Syckle, John P. (See McCabe, Philip J., assignor.)
Van Tekelenburg, John, Long Island City, assignor of one-third to A. Leidich, Brooklyn, and one-third to W. Muller, New York, N. Y. Locking device for automobile starting-cranks. No. 947,706; Jan. 25; Sp. p. 5992; Gaz. vol. 150; p. 998.
Van Tuyl, Frank W. (See Kirkpatrick and Van Tuyl.)
Van Valkenburg, Hermon L., Philadelphia, Pa. Screen. No. 972,299; Oct. 11; Sp. p. 1715; Gaz. vol. 159; p. 301.
Van Valkenburg, Hermon L., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Switch construction. No. 960,450; June 7; Sp. p. 417; Gaz. vol. 155; p. 71.
Van Valkenburg, Hermon L., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Circuit-breaker. No. 969,813; Sept. 13; Sp. p. 1449; Gaz. vol. 158; p. 251.
Van Valkenburg, Levi D., Holyoke, Mass. Retainer for fountain-pens and pencils. No. 948,802; Feb. 8; Sp. p. 2177; Gaz. vol. 151; p. 369.
Van Vlaanderen, Peter. (See Johnson and Van Vlaanderen.)
Van Voorhis, Frank, Finleyville, Pa. Tanning. No. 947,169; Jan. 18; Sp. p. 4765; Gaz. vol. 150; p. 786.
Van Westrum, Leonard S., Grand Rapids, Mich. Making roads. No. 956,009; Apr. 26; Sp. p. 5021; Gaz. vol. 153; p. 888.
Van Wickle, Edward, New York, N. Y. Safety gas-cock. No. 959,090; May 24; Sp. p. 5814; Gaz. vol. 154; p. 974.
Van Wie, Walter, San Diego, Cal. Revolving kite. No. 966,143; Aug. 2; Sp. p. 618; Gaz. vol. 157; p. 102.
Van Winkle, Charles W., White Plains, N. Y. Feathering-blade propeller. No. 955,023; Apr. 12; Sp. p. 2900; Gaz. vol. 153; p. 490.
Van Winkle, Charles W., White Plains, assignor of one-half to R. Conklin, Pleasantville, N. Y. Autoplane. No. 974,846; Nov. 8; Sp. p. 1730; Gaz. vol. 160; p. 290.
Van Winkle, Edward. (See Fancher, Burt, and Van Winkle.)
Van Winkle, Herbert H., Cincinnati, and F. S. Healey, Hartwell, assignors to The John H. McGowan Co., Cincinnati, Ohio. Valve mechanism for fluid-engines. No. 950,644; Mar. 1; Sp. p. 388; Gaz. vol. 152; p. 63.
Van Winkle, Walter H., assignor to Water Works Equipment Company, New York, N. Y. Portable pump. No. 978,241; Dec. 13; Sp. p. 1784; Gaz. vol. 161; p. 313.
Van Wye, Garry P., New York, N. Y. Sewing-clamp. No. 956,869; May 3; Sp. p. 805; Gaz. vol. 154; p. 128.
Van Yorx, Percival K., assignor to The Wilcox & White Company, Meriden, Conn. Expression-marking for note-sheets. No. 964,716; July 19; Sp. p. 3772; Gaz. vol. 156; p. 627.
Van Zandt, John H., Fort Worth, Tex. Door. No. 953,983; Apr. 5; Sp. p. 592; Gaz. vol. 153; p. 106.
Vance, Benjamin F., *et al.* (See Watterson, John S., assignor.)
Vance, Bertie K., *et al.* (See Watterson, John S., assignor.)
Vance, George E., Springfield, Ohio. Combined tile and saggar. No. 971,160; Sept. 27; Sp. p. 4300; Gaz. vol. 158; p. 756.
Vance, George E., Springfield, Ohio. Combined tile and saggar. No. 971,228; Sept. 27; Sp. p. 4452; Gaz. vol. 158; p. 780.
Vance, John C., Valley Mills, Tex. Spring trip-foot. No. 949,785; Feb. 22; Sp. p. 4194; Gaz. vol. 151; p. 757.
Vance, John W., Saginaw, N. C. Saddletree. No. 949,101; Feb. 15; Sp. p. 2780; Gaz. vol. 151; p. 493.
Vance, Walter N., Waukegan, Ill. Locker. No. 978,963; Dec. 20; Sp. p. 3335; Gaz. vol. 161; p. 587.
Vancil, Samuel A., Greenway, Ark. Bridge-dam. No. 974,315; Nov. 1; Sp. p. 541; Gaz. vol. 160; p. 80.
Vandatte, Robert, and B. Lagye, Antwerp, Belgium. Apparatus for removing the grease and yolk from wool. No. 961,468; June 14; Sp. p. 2530; Gaz. vol. 155; p. 443.
Vandegrift, James E., administrator. (See Vandegrift and Gordon.)
Vandegrift, Theodore F., deceased, (J. E. Vandegrift, administrator,) and J. W. Gordon, Shelbyville, Ind. Washing-machine. No. 952,388; Mar. 15; Sp. p. 3875; Gaz. vol. 152; p. 694.
Vanden Broek, Isaac, New York, N. Y. Making hydrocarbon soap. No. 959,820; May 31; Sp. p. 7332; Gaz. vol. 154; p. 1242.
Vandenburgh, Esther A., Ridlonville, Me. Fruit-jar holder. No. 955,231; Apr. 19; Sp. p. 3323; Gaz. vol. 153; p. 593.
Vander Haeghen, Georges, Liege, Belgium. Automatic revolver. No. 946,351; Jan. 11; Sp. p. 2942; Gaz. vol. 150; p. 489.
Vander Lande, Johannes C. L., Deventer, Netherlands. Oil decoloring, bleaching, and thickening apparatus. No. 950,723; Mar. 1; Sp. p. 572; Gaz. vol. 152; p. 89.
Vanderbeek, Herbert, assignor, by mesne assignments, to The Royal Equipment Company, Bridgeport, Conn. Brake. No. 958,446; May 17; Sp. p. 4462; Gaz. vol. 154; p. 730.
Vanderbilt, John, New York, N. Y. Toy. No. 968,900; Aug. 30; Sp. p. 6538; Gaz. vol. 157; p. 1138.
Vanderburg, Charles A., Los Angeles, Cal. Apparel-hanger. No. 948,940; Feb. 8; Sp. p. 2430; Gaz. vol. 151; p. 414.
Vanderkolk, Dewey, David City, Nebr. Perch. No. 968,817; Aug. 30; Sp. p. 6363; Gaz. vol. 157; p. 1110.
Vanderlip, Earl, assignor of one-half to A. O. Bickford, Alto, Mich. Gasolene-engine. No. 957,278; May 10; Sp. p. 1694; Gaz. vol. 154; p. 297.
Vanderlip, Louis C., Elkhart, Ind. Gas-engine. No. 957,017; May 3; Sp. p. 1123; Gaz. vol. 154; p. 177.
Vanderman, William, Willimantic, Conn. Lead joint-runner. No. 960,604; June 7; Sp. p. 742; Gaz. vol. 155; p. 122.
Vanderminden, Henry J. W. (See Eckartz, John C., assignor.)
Vanderveen, Harry. (See Beck, John F., assignor.)
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Detachable fastening for garment-supports. No. 971,647; Oct. 4; Sp. p. 285; Gaz. vol. 159; p. 51.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Movable garment-support. No. 972,298; Oct. 11; Sp. p. 1714; Gaz. vol. 159; p. 301.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Bolt for show-case doors. No. 972,949; Oct. 18; Sp. p. 3188; Gaz. vol. 159; p. 555.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Adjustable hinge. No. 974,451; Nov. 1; Sp. p. 860; Gaz. vol. 160; p. 127.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Support for disappearing doors. No. 974,542; Nov. 1; Sp. p. 1081; Gaz. vol. 160; p. 162.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Latch for movable garment-supports. No. 977,573; Dec. 6; Sp. p. 362; Gaz. vol. 161; p. 53.
Vanderwerp, Henry, Traverse City, Mich. Bag-fastener. No. 955,232; Apr. 19; Sp. p. 3324; Gaz. vol. 153; p. 593.
Vandevort, Frank F., Germantown, Pa., assignor of one-fourth to H. Japp, New York, one-fourth to J. Forgie, Richmond Hill, N. Y., and one-fourth to E. W. Moir, London, England. Tunnel-segment. No. 951,667; Mar. 8; Sp. p. 2449; Gaz. vol. 152; p. 423.

Alphabetical list of patentees—Continued.

Vandiver, Leslie A., Chicago, Ill. Coin-controlled mechanism for vending-machines. No. 970,280; Sept. 13; Sp. p. 2435; Gaz. vol. 158; p. 411.
Vandivert, Samuel W. (See Roth, Anton, assignor.)
Vanhorn, Robert R. (See Hendershot, John L., assignor.)
Vaniman, Harvey W., Cincinnati, Ohio. Boat. No. 957,820; May 10; Sp. p. 2790; Gaz. vol. 154; p. 479.
Vaniman, Jesse W., Wichita, Kans. Stacker. No. 953,449; Mar. 29; Sp. p. 6181; Gaz. vol. 152; p. 1108.
Vanlandingham, William W. (See Frazer and Vanlandingham.)
Vanlandingham, William W., Lone Oak, Tex. Cotton-seed cleaner and huller. No. 949,607; Feb. 15; Sp. p. 3816; Gaz. vol. 151; p. 665.
Vanneman, William C., Anderson, Ind. Tin-plate polishing and cleaning machine. No. 964,192; July 12; Sp. p. 2535; Gaz. vol. 156; p. 418.
Vannette, Jasper, Tiffin, Ohio. Spool-case for sewing-machines. No. 969,009; Aug. 30; Sp. p. 6747; Gaz. vol. 157; p. 1175.
Vannoy, John B., McLean, Tex. Washer. No. 948,600; Feb. 8; Sp. p. 1738; Gaz. vol. 151; p. 300.
Vanoni, Edward, Loyalton, Cal. Door-stop. No. 957,584; May 10; Sp. p. 2303; Gaz. vol. 154; p. 400.
Vanosdall, Harry B., and C. E. Enck, Ashland, Ohio. Collapsible toilet-seat. No. 957,822; May 10; Sp. p. 2793; Gaz. vol. 154; p. 480.
Vardell, Arthur A., Dallas, Tex. Space-block. No. 968,819; Aug. 30; Sp. p. 6365; Gaz. vol. 157; p. 1110.
Vardell, Arthur A., Dallas, Tex. Metallic brush-cylinder. No. 968,820; Aug. 30; Sp. p. 6367; Gaz. vol. 157; p. 1116.
Vargas, Louis, New York, N. Y. Cradle. No. 950,312; Feb. 22; Sp. p. 5367; Gaz. vol. 151; p. 942.
Varin, Victor, Montreal, Quebec, Canada. Lumber-marking machine. No. 966,492; Aug. 9; Sp. p. 1383; Gaz. vol. 157; p. 244.
Varley, Richard, Englewood, N. J., assignor to The Autocoil Company. Electric ignition system for explosion-motors. No. 955,618; Apr. 19; Sp. p. 4155; Gaz. vol. 153; p. 723.
Varley, Thomas W., New York, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 978,518; Dec. 13; Sp. p. 2374; Gaz. vol. 161; p. 410.
Varlie, Frank F., Marianna, Ark. Valve. No. 963,836; July 12; Sp. p. 1822; Gaz. vol. 156; p. 299.
Varner, William L., Garnsey, assignor of one-third to J. R. Pill, Birmingham, Ala. Spike-puller. No. 951,517; Mar. 8; Sp. p. 2146; Gaz. vol. 152; p. 372.
Varney, Frederick H., Lyndonville, Vt. Halter. No. 964,947; July 19; Sp. p. 4238; Gaz. vol. 156; p. 708.
Varney, Theodore. (See Davis and Varney.)
Varney, Theodore, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-trolley-line construction. No. 946,590; Jan. 18; Sp. p. 3532; Gaz. vol. 150; p. 595.
Varney, Theodore, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator for electric lines. No. 946,623; Jan. 18; Sp. p. 3613; Gaz. vol. 150; p. 606.
Varney, Theodore, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overhead line structure. No. 946,624; Jan. 18; Sp. p. 3614; Gaz. vol. 150; p. 607.
Varney, Theodore, Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley-hanger. No. 946,625; Jan. 18; Sp. p. 3616; Gaz. vol. 150; p. 607.
Vasey, John D., Buffalo, N. Y. Scraper. No. 954,601; Apr. 12; Sp. p. 1933; Gaz. vol. 153; p. 343.
Vastag, Anton, and S. Horvath, McKees Rocks, Pa. Composition of matter. No. 952,389; Mar. 15; Sp. p. 3877; Gaz. vol. 152; p. 694.
Vauclain, Andrew C., assignor to Burnham, Williams & Company, Philadelphia, Pa. Car-truck. No. 946,293; Jan. 11; Sp. p. 2825; Gaz. vol. 150; p. 470.
Vauclain, Samuel M., assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Flexible driving connection. No. 957,279; May 10; Sp. p. 1697; Gaz. vol. 154; p. 297.
Vauclain, Samuel M., assignor to Baldwin Locomotive Works, Philadelphia, Pa. Locomotive. No. 975,183; Nov. 8; Sp. p. 2513; Gaz. vol. 160; p. 406.
Vauclain, Samuel M., assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Car-truck. No. 975,303; Nov. 8; Sp. p. 2773; Gaz. vol. 160; p. 448.
Vauclain, Samuel M., assignor to Baldwin Locomotive Works, Philadelphia, Pa. Articulated locomotive. No. 976,014; Nov. 15; Sp. p. 4224; Gaz. vol. 160; p. 716.
Vauclain, Samuel M., assignor, by mesne assignments, to Baldwin Locomotive Works, Philadelphia, Pa. Deflector for smoke-box superheaters or feed-water heaters. No. 978,795; Dec. 13; Sp. p. 2968; Gaz. vol. 161; p. 502.
Vaughan, Ernest, Dudley Port, Tipton, England. Connection-fitting for bedsteads. No. 965,769; July 26; Sp. p. 5988; Gaz. vol. 156; p. 1017.
Vaughan, Henry E., *et al.* (See Shattuck, Wilmer H., assignor.)
Vaughan, Hunter E., *et al.* (See Young, Henry E., assignor.)
Vaughan, Ira. (See Pitman, Harry M., assignor.)
Vaughan, Jay W., Chicago, Ill. Floor and ceiling beam. No. 960,740; June 7; Sp. p. 1012; Gaz. vol. 155; p. 170.
Vaughan, Joseph C., Heflin, Ala. Calendar. No. 948,263; Feb. 1; Sp. p. 984; Gaz. vol. 151; p. 162.
Vaughan, Robin W., Los Angeles, Cal. Windmill. No. 968,003; Aug. 23; Sp. p. 4588; Gaz. vol. 157; p. 804.
Vaughan, Ross, New York, N. Y., assignor to The Distributors Co., Paterson, N. J. Carton. No. 968,717; Aug. 30; Sp. p. 6163; Gaz. vol. 157; p. 1077.
Vaughan, Thomas M., Detroit, Mich., assignor to Box Office Ticket Printing Machine Company. Ticket-printing machine. No. 970,768; Sept. 20; Sp. p. 3498; Gaz. vol. 158; p. 599.
Vaughn, Calvin W., Cuyahoga Falls, Ohio. Safety-stop for wire-blocks. No. 977,490; Dec. 6; Sp. p. 139; Gaz. vol. 161; p. 24.
Vaughn, De Will G., Richmond, Va. Chain-repairing tool. No. 979,609; Dec. 27; Sp. p. 4739; Gaz. vol. 161; p. 832.
Vaughn, George M., Chautauqua, Kans. Sinker. No. 978,519; Dec. 13; Sp. p. 2376; Gaz. vol. 161; p. 410.
Vaughn, Jennie. (See Feldman, Harry E., assignor.)
Vaughn, Ralph B., Wilkes-Barre, Pa. Cooling device for internal-combustion engines. No. 971,328; Sept. 27; Sp. p. 4640; Gaz. vol. 158; p. 812.
Vaughn, Robert, Philomath, assignor of one-fourth to S. S. Ewing and one-fourth to E. A. Cone, Corvallis, Oreg. Crosscut-saw handle. No. 949,948; Feb. 22; Sp. p. 4566; Gaz. vol. 151; p. 816.
Vaughn, Thomas E., Chicago, Ill. Rail-support. No. 961,917; June 21; Sp. p. 3484; Gaz. vol. 155; p. 617.
Vautin, Claude, London, England. Utilization of heat contained in slags. No. 972,418; Oct. 11; Sp. p. 1957; Gaz. vol. 159; p. 343.
Vavra, Frank P., Chicago, Ill. Machine for making paper-box blanks. No. 972,300; Oct. 11; Sp. p. 1717; Gaz. vol. 159; p. 301.
Veach, George J., Oil City, Pa. Table-pad. No. 970,861; Sept. 20; Sp. p. 3699; Gaz. vol. 158; p. 632.
Veal, Sydney H. (See Juin, Adolphe, assignor.)
Veatch, John W., assignor of one-half to H. Neuerburg, Bloomington, Ill. Sewing-machine attachment. No. 955,619; Apr. 19; Sp. p. 4157; Gaz. vol. 153; p. 724.
Vedder, Edward B., Fort Stevens, Oreg. Subcaliber for revolvers. No. 969,011; Aug. 30; Sp. p. 6749; Gaz. vol. 157; p. 1176.
Veeck, Rudolf, Algenrodt, Germany. Device for seating rings of easily-breakable material on bottle-stoppers. No. 951,351; Mar. 8; Sp. p. 1805; Gaz. vol. 152; p. 317.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counter. No. 950,546; Mar. 1; Sp. p. 173; Gaz. vol. 152; p. 29.
Veeder Manufacturing Company, The. (See Potts, Samuel W., assignor.)
Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
Veevers, Edmund. (See Butterworth and Veevers.)
Veil, Jules C., New York, N. Y. Heating, cooling, and ventilating system. No. 946,889; Jan. 18; Sp. p. 4232; Gaz. vol. 150; p. 696.
Veiox, Frank J., Warner, S. D. Tongs for sheet metal. No. 956,910; May 3; Sp. p. 897; Gaz. vol. 154; p. 142.
Veit, Johann, Hanau, Germany. Sound-box for talking-machines. No. 979,231; Dec. 20; Sp. p. 3951; Gaz. vol. 161; p. 682.
Veit, Maurice, New York, N. Y. Artificial aigret and like article. No. 948,194; Feb. 1; Sp. p. 844; Gaz. vol. 151; p. 139.
Veit, Maurice, New York, N. Y. Artificial feather. No. 967,872; Aug. 16; Sp. p. 4305; Gaz. vol. 157; p. 736.
Veitch, Thomas, Dumont, N. J., assignor to The Scientific Research Co., New York, N. Y. Internal-combustion engine. No. 975,809; Nov. 15; Sp. p. 3829; Gaz. vol. 160; p. 645.
Velen, Luther T., Cleburne, Kans. Cutter mechanism for harvesters. No. 957,280; May 10; Sp. p. 1698; Gaz. vol. 154; p. 297.
Velie Motor Vehicle Company. (See Fuller, Lawson M., assignor.)
Velilla, Pedro M., Medellin, Colombia. Drying apparatus. No. 964,342; July 12; Sp. p. 2846; Gaz. vol. 156; p. 469.
Velochrone Company, The. (See Bäuerle, Tobias, assignor.)
Veltman, Warren. (See Stadt and Veltman.)
Venable, William T., Anchorage, Ky. Manually-propelled road-machine. No. 949,102; Feb. 15; Sp. p. 2781; Gaz. vol. 151; p. 494.
Vender, Vezio, Milan, Italy. Making horny nitrocellulose bodies. No. 946,294; Jan. 11; Sp. p. 2826; Gaz. vol. 150; p. 470.
Venn, Isaac H., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Leather cup. No. 956,612; May 3; Sp. p. 227; Gaz. vol. 154; p. 39.
Venn, Isaac H., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Rope-drive elevator. No. 964,889; July 19; Sp. p. 4127; Gaz. vol. 156; p. 687.
Venn, Isaac H., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Valve-controlling device. No. 979,725; Dec. 27; Sp. p. 4985; Gaz. vol. 161; p. 871.

Alphabetical list of patentees—Continued.

Venner, Richard, Barre, Vt. Respirator and inhaler. No. 958,569; May 17; Sp. p. 4693; Gaz. vol. 154; p. 771.

Venner, Robert F., Addiscombe, England. Illuminated sign. No. 955,926; Apr. 26; Sp. p. 4850; Gaz. vol. 153; p. 858.

Veno, James, Vancouver, British Columbia, Canada. Handle-extractor for axes, hammers, &c. No. 975,304; Nov. 8; Sp. p. 2774; Gaz. vol. 160; p. 448.

Venter, Otto, Chemnitz, Germany. Purifying waste mercerization-lyes. No. 967,272; Aug. 16; Sp. p. 3084; Gaz. vol. 157; p. 534.

Ventilated Cushion and Spring Co. (See Snuggs, John H., assignor.)

Ventura Alarm Company. (See Hamilton, John R., assignor.)

Vercellini, Joseph, *et al.* (See Stragiotti, Pietro, assignor.)

Verchère, Charles. (See Mayoux and Verchère.)

"Vereinigte Chemische Werke" Actiengesellschaft. (See Wiedermann, Fritz, assignor.)

Vereinigte Chininfabriken Zimmer & Co., G. m. b. H. (See Thron, Heinrich, assignor.)

Vergote, Gustave, Marshall, Minn. Pneumatic-tire protector. No. 963,667; July 5; Sp. p. 1402; Gaz. vol. 156; p. 219.

Verhoeven, Arnold, Marianna, Ark. Liquid-gage for pressure-tanks. No. 954,550; Apr. 12; Sp. p. 1818; Gaz. vol. 153; p. 326.

Verhulst, Noel. (See Vermeistch and Verhulst.)

Verlinde, Richard. (See Maryns and Verlinde.)

Vermehren, Johannes, Hellerup, Denmark. Machine for calculating fractions. No. 953,160; Mar. 29; Sp. p. 5553; Gaz. vol. 152; p. 1013.

Vermeistch, Abel, Lawrence, Mass., and N. Verhulst, Pawtucket, R. I. Compound for use in preparing sizing compositions. No. 956,551; May 3; Sp. p. 95; Gaz. vol. 154; p. 17.

Vermilyea, Eugene, and R. Hammersley, Waterford, N. Y. Knitting-machine. No. 970,282; Sept. 13; Sp. p. 2439; Gaz. vol. 158; p. 411.

Vermont Farm Machine Company. (See Hicks, Milton A., assignor.)

Vermont Farm Machine Company. (See Kimball, Perley L., assignor.)

Vernon, Frederick R., Freeport, N. Y. Knockdown box. No. 976,318; Nov. 22; Sp. p. 4948; Gaz. vol. 160; p. 843.

Verplanck, Holly M., assignor to Lansing Wheelbarrow Company, Lansing, Mich. Wheelbarrow. No. 977,056; Nov. 29; Sp. p. 6576; Gaz. vol. 160; p. 1122.

Verplast, Frederick, Boston, Mass. Weighing-machine. No. 952,157; Mar. 15; Sp. p. 3426; Gaz. vol. 152; p. 616.

Verrell, Charles F., Grand Rapids, Mich. Separating dust and other materials from dust-laden air, and a dust-collector for carrying out said process. No. 964,717; July 19; Sp. p. 3774; Gaz. vol. 156; p. 628.

Verschoyle, William D., Tanrago, Ballysadare, Ireland. Portable hand-driven turning-lathe. No. 968,295; Aug. 23; Sp. p. 5252; Gaz. vol. 157; p. 904.

Versen, Bruno, Dortmund, Germany. Furnace-head for gas-furnaces with changing direction of flame. No. 975,738; Nov. 15; Sp. p. 3686; Gaz. vol. 160; p. 621.

Vervuert, Gottfried, Imsbach, assignor to E. Abresch, Neustadt-on-the-Hardt, Germany. Lixiviating ores. No. 952,484; Mar. 22; Sp. p. 4091; Gaz. vol. 152; p. 755.

Vesey, Richard H., Denver, Colo., assignor to T. E. Stevens, Omaha, Nebr., and C. C. Denny, Chicago Heights, Ill. Post-hole digger. No. 957,127; May 3; Sp. p. 1334; Gaz. vol. 154; p. 213.

Vesey, Richard H., Denver, Colo., assignor to T. E. Stevens, Omaha, Nebr., and C. C. Denny, Chicago Heights, Ill. Post-hole digger. No. 957,128; May 3; Sp. p. 1336; Gaz. vol. 154; p. 214.

Vest, Eugene W., Seattle, Wash. Gate-controlling apparatus. No. 965,422; July 26; Sp. p. 5220; Gaz. vol. 156; p. 895.

Vesta-Apparate- & Metallwarenfabrik G. m. b. H. (See Koźminski, Samuel, assignor.)

Vestal, Albert, and D. F. Bennett, Redding, Cal. Current-motor. No. 973,241; Oct. 18; Sp. p. 3831; Gaz. vol. 159; p. 655.

Vestergaard, Christian, Chicago, Ill. Horseshoe-spreader. No. 975,810; Nov. 15; Sp. p. 3832; Gaz. vol. 160; p. 645.

Vetter, Charles L., Philadelphia, Pa. Incubator. No. 978,520; Dec. 13; Sp. p. 2377; Gaz. vol. 161; p. 410.

Vetter, John J., Indianapolis, Ind. Davenport. No. 968,097; Aug. 23; Sp. p. 4809; Gaz. vol. 157; p. 836.

Vevle, Wilhelm O., Ada, Minn. Disk-sharpener. No. 964,071; July 12; Sp. p. 2297; Gaz. vol. 156; p. 378.

Veyron, Louis, Paris, France. Embroidery attachment for weaving-looms. No. 960,741; June 7; Sp. p. 1013; Gaz. vol. 155; p. 171.

Vezie, Eugene, Washington, assignor of one-half to C. R. Ballard, Midway, Pa. Composition for cleaning boilers. No. 948,833; Feb. 8; Sp. p. 2238; Gaz. vol. 151; p. 379.

Viall, Fay, *et al.* (See Gould, Edward, assignor.)

Vicary, Edsel C., Caron, Saskatchewan, Canada. Bag-holder. No. 960,451; June 7; Sp. p. 418; Gaz. vol. 155; p. 71.

Vice, Peter, New York, N. Y. Non-refillable bottle. No. 974,215; Nov. 1; Sp. p. 254; Gaz. vol. 160; p. 42.

Vick, Alfred W., Savannah, Ga. Train-order holder. No. 957,018; May 3; Sp. p. 1126; Gaz. vol. 154; p. 177.

Vick, Rollo M., Alliance, Ohio. Rolling-pin. No. 950,775; Mar. 1; Sp. p. 682; Gaz. vol. 152; p. 109.

Vick, Rollo M., Detroit, Mich. Telephone-bracket. No. 956,911; May 3; Sp. p. 898; Gaz. vol. 154; p. 142.

Vick, Rollo M., Detroit, Mich., assignor to The American Case & Register Company, Salem, Ohio. Credit-cabinet. No. 959,821; May 31; Sp. p. 7333; Gaz. vol. 154; p. 1242.

Vickers, Emmit O., Buffalo, Okla. Trestle. No. 947,464; Jan. 25; Sp. p. 5478; Gaz. vol. 150; p. 916.

Vickers, John J., Leesburg, Tex. Cotton-chopper. No. 961,181; June 14; Sp. p. 1900; Gaz. vol. 155; p. 345.

Vickers Sons & Maxim. (See Dawson and Buckham, assignors.)

Vickers Sons & Maxim Limited. (See Buckham, George T., assignor.)

Vickers, Thomas M. (See Stokes and Vickers.)

Vickery, Frederick W., Bushey, assignor to Vickery's Patents Limited, London, England. Apparatus for separating sheets of paper or like material. No. 956,456; Apr. 26; Sp. p. 6001; Gaz. vol. 153; p. 1041.

Vickery's Patents Limited. (See Vickery, Frederick W., assignor.)

Vicks, Warren W., Rome, N. Y. Combined carriage and sled. No. 950,583; Mar. 1; Sp. p. 251; Gaz. vol. 152; p. 41.

Victor, Alexander F., Toledo, Ohio. Mechanical movement. No. 976,953; Nov. 29; Sp. p. 6352; Gaz. vol. 160; p. 1087.

Victor, Alexander F., Toledo, Ohio. Moving-picture machine. No. 976,954; Nov. 29; Sp. p. 6354; Gaz. vol. 160; p. 1088.

Victor, George, Omaha, Nebr. Billiard-table cushion. No. 951,410; Mar. 8; Sp. p. 1939; Gaz. vol. 152; p. 336.

Victor, Robert L., Portland, Oreg. Household safety-lamp. No. 974,727; Nov. 1; Sp. p. 1471; Gaz. vol. 160; p. 226.

Victor Safe & Lock Co. (See Bausmith, William T., assignor.)

Victor Safe & Lock Co., The. (See Hattersley, George A., assignor.)

Victor Safe & Lock Company, The. (See Arnold, Wilber E., assignor.)

Victor Safe & Lock Company, The. (See Scott, John J., assignor.)

Victor Safe & Lock Company, The. (See Spivey, Thomas S., assignor.)

Victor Talking Machine Company. (See Browning, John B., assignor.)

Victor Talking Machine Company. (See Coleman, George L., assignor.)

Victor Talking Machine Company. (See Dennison, Wilburn N., assignor.)

Victor Talking Machine Company. (See English, John C., assignor.)

Victor Talking Machine Company. (See Gibson, Robert L., assignor.)

Victor Talking Machine Company. (See Jetter, Julius, assignor.)

Victor Talking Machine Company. (See Johnson, Eldridge R., assignor.)

Victor Talking Machine Company. (See Owen, James W., assignor.)

Victor Talking Machine Company. (See Smith, Eugene C., assignor.)

Victor Talking Machine Company. (See Valiquet, Louis P., assignor.)

Victor Talking Machine Company. (See Vogt, Clarence, assignor.)

Victory Smoke Consumer and Fuel Economiser Company. (See Marshall and Hargreaves, assignors.)

Viele, James A., Warren, Pa. Internal-combustion engine. No. 979,359; Dec. 20; Sp. p. 4194; Gaz. vol. 161; p. 723.

Viera, Antonio, Ray, Ariz. Miner's candlestick. No. 974,316; Nov. 1; Sp. p. 542; Gaz. vol. 160; p. 80.

Vierengel, Matthew, Brooklyn, N. Y. Paper bag. No. 955,564; Apr. 19; Sp. p. 4018; Gaz. vol. 153; p. 704.

Vierengel, Matthew, Brooklyn, N. Y., and J. Sofge, Cincinnati, Ohio, assignors, by mesne assignments, to C. E. Roth, trustee, Cincinnati, Ohio. Paper-bag machine. No. 958,844; May 24; Sp. p. 5287; Gaz. vol. 154; p. 891.

Vierling, Joseph, Pittsburg, Pa. Washing-machine. No. 947,565; Jan. 25; Sp. p. 5718; Gaz. vol. 150; p. 949.

Vierling, Joseph, Pittsburg, Pa. Washing-machine. No. 962,803; June 28; Sp. p. 5418; Gaz. vol. 155; p. 946.

Viertel, Hermann, assignor to Gebrüder Siemens & Co., Charlottenburg, near Berlin, Germany. Searchlight, projector, and the like. No. 968,821; Aug. 30; Sp. p. 6369; Gaz. vol. 157; p. 1111.

Viertel, Hermann, Berlin, assignor to Gebrüder Siemens & Co., Lichtenberg, near Berlin, Germany. Searchlight, projector, and the like. No. 969,814; Sept. 13; Sp. p. 1451; Gaz. vol. 158; p. 252.

Viertel, Hermann, Lichtenberg, and G. Egly, Treptow, assignors to Gebrueder Siemens & Co., Lichtenberg, near Berlin, Germany. Protective coating for carbon bodies. No. 976,319; Nov. 22; Sp. p. 4950; Gaz. vol. 160; p. 844.

Alphabetical list of patentees—Continued.

Vieser, Frederick A., Camden, N. J. Printing-roll for linoleum and oil-cloth. No. 978,080; Dec. 6; Sp. p. 1413; Gaz. vol. 161; p. 228.
Vigdal, Benjamin, Armstrong, Iowa. Locking can-cover. No. 977,491; Dec. 6; Sp. p. 141; Gaz. vol. 161; p. 25.
Viles, Frank M., Fitchburg, Mass. Guy-wire connection for land-anchors. No. 957,823; May 10; Sp. p. 2795; Gaz. vol. 154; p. 480.
Villani, Egidio, Cincinnati, Ohio. Dish-washing machine. No. 952,592; Mar. 22; Sp. p. 4326; Gaz. vol. 152; p. 792.
Villiger, Viktor. (See Julius, Villiger, and Nawiasky.)
Villmow, John A. H., Milwaukee, Wis. Cylindrical trunk. No. 968,098; Aug. 23; Sp. p. 4810; Gaz. vol. 157; p. 836.
Vincart-Mouzin, Sylvain, Nimy, Belgium. Tunnel-kiln for baking pottery. No. 969,125; Aug. 30; Sp. p. 6992; Gaz. vol. 157; p. 1216.
Vincent, Benjamin I. (See Schulherr and Vincent.)
Vincent, Charles, Pinner, England. Pianoforte. No. 956,003; Apr. 26; Sp. p. 5011; Gaz. vol. 153; p. 886.
Vincent, Frank S. (See Millspaugh and Vincent.)
Vincent, Harry S., Ridgewood, N. J. Valve-gear. No. 946,083; Jan. 11; Sp. p. 2371; Gaz. vol. 150; p. 394.
Vincent, Harry S., Ridgewood, N. J. Locomotive-engine. No. 946,084; Jan. 11; Sp. p. 2373; Gaz. vol. 150; p. 394.
Vincent, Harry S., Ridgewood, N. J. Boiler for articulated locomotives. No. 955,927; Apr. 26; Sp. p. 4850; Gaz. vol. 153; p. 858.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 949,338; Feb. 15; Sp. p. 3263; Gaz. vol. 151; p. 574.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 965,423; July 26; Sp. p. 5222; Gaz. vol. 156; p. 896.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 968,004; Aug. 23; Sp. p. 4590; Gaz. vol. 157; p. 805.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 968,005; Aug. 23; Sp. p. 4605; Gaz. vol. 157; p. 805.
Vincent, Joseph, assignor to The Colorado Syrup Company, Denver, Colo. Can for maple-syrup and the like. No. 965,256; July 26; Sp. p. 4862; Gaz. vol. 156; p. 840.
Vincent, Joseph P., *et al.* (See Forest, Albert, assignor.)
Vincer, John R. (See Barnes and Vincer.)
Viney, Frederick C., assignor to The Standard Meter Company, Philadelphia, Pa. Gas-meter. No. 971,705; Oct. 4; Sp. p. 405; Gaz. vol. 159; p. 70.
Vining, George H., Kansas City, Mo. Casting apparatus. No. 961,182; June 14; Sp. p. 1901; Gaz. vol. 155; p. 345.
Vinsant, John R., Raydon, Okla. Machine for molding building-blocks. No. 966,271; Aug. 2; Sp. p. 905; Gaz. vol. 157; p. 145.
Violon, Valery. (See Dietmann and Violon.)
Viqusney, Jules A. (See Jarvis, William D. F., assignor.)
Virgie, William H., Clarksburg, W. Va. Swing. No. 959,085; May 24; Sp. p. 5804; Gaz. vol. 154; p. 972.
Virgil, Almon K., New York, N. Y. Exercising-keyboard for musicians. No. 970,144; Sept. 13; Sp. p. 2134; Gaz. vol. 158; p. 364.
Virgili, Felicissimo, assignor to Società Anonima per Griglie e Forni Virgili, Genoa, Italy. Baking with quick heating and cooling. No. 970,862; Sept. 20; Sp. p. 3700; Gaz. vol. 158; p. 632.
Virgin, Uriah J. (See Lincoln, Joshua A., assignor.)
Virginia Electric Tool Manufacturing Company. (See Paulero, Louis, assignor.)
Virginia Laboratory Company. (See Kügelgen and Seward, assignors.)
Virtue, Dennis E., Owatonna, Minn. Combined churn and butter-worker. No. 979,610; Dec. 27; Sp. p. 4741; Gaz. vol. 161; p. 832.
Vischer, Alfred. (See Daimler and Vischer.)
Visger, Joseph S., Hoboken, N. J. Head and back rest for beds. No. 968,006; Aug. 23; Sp. p. 4608; Gaz. vol. 157; p. 806.
Vissering, Harry, Chicago, Ill. Trap for sander devices. No. 951,207; Mar. 8; Sp. p. 1498; Gaz. vol. 152; p. 271.
Vissering, Harry, Chicago, Ill. Alarm-valve. No. 960,742; June 7; Sp. p. 1016; Gaz. vol. 155; p. 171.
Vita Electric Sign Company. (See Prindle, Edwin J., assignor.)
Vitagraph Company of America, The. (See Smith, Albert E., assignor.)
Vitello, Joseph A., Abbeville, La. Tire. No. 977,492; Dec. 6; Sp. p. 142; Gaz. vol. 161; p. 25.
Vivarttas, William O., Canton, Ohio. Cutter-head for woodworking machinery. No. 978,414; Dec. 13; Sp. p. 2157; Gaz. vol. 161; p. 375.
Vivian, Avando W. H., G. L. Davies, and L. Grote, assignors to Composite Fuel Syndicate Limited, London, England. Manufacture of artificial fuel. No. 967,863; Aug. 16; Sp. p. 4286; Gaz. vol. 157; p. 733.
Vivian, George G., Tintic, Utah. Sintering-furnace. No. 948,981; Feb. 8; Sp. p. 2525; Gaz. vol. 151; p. 429.
Vivian, George G., Tintic, assignor of one-half to J. Knight, Provo, Utah. Sintering ore. No. 950,798; Mar. 1; Sp. p. 732; Gaz. vol. 152; p. 116.
Vlahoyanes, Nickolas P., Fort Worth, Tex. Mixing-machine. No. 973,394; Oct. 18; Sp. p. 4150; Gaz. vol. 159; p. 707.
Vliet, Peter, Canton, Ohio. Tripping mechanism. No. 945,644; Jan. 4; Sp. p. 1365; Gaz. vol. 150; p. 213.
Vocalstyle Music Company, The. (See Miller, Harry G., assignor.)
Vock, Philip, New York, N. Y., assignor to New York Bottlers' Supplies Manufacturing Company. Siphon-filler. No. 958,982; May 24; Sp. p. 5582; Gaz. vol. 154; p. 938.
Voegele, John, Faribault, Minn. Plow. No. 960,743; June 7; Sp. p. 1018; Gaz. vol. 155; p. 172.
Voegeli, Gustav, Wettingen, Switzerland. Saturated or superheated vapor generator. No. 974,216; Nov. 1; Sp. p. 255; Gaz. vol. 160; p. 42.
Voegtle, Anton, H. C. Lea, and R. H. Voegtle, Sharpsburg, Pa. Coil. No. 972,950; Oct. 18; Sp. p. 3189; Gaz. vol. 159; p. 555.
Voegtle, Richard H. (See Voegtle, Lea, and Voegtle.)
Vogan, Frank C., Philadelphia, Pa. Trolley-guide. No. 965,424; July 26; Sp. p. 5238; Gaz. vol. 156; p. 896.
Vogel, Christian, Seward, Nebr. Adjustable pitman. No. 972,585; Oct. 11; Sp. p. 2351; Gaz. vol. 159; p. 402.
Vogel, Ernest, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Bristle-redeeming machine. No. 976,955; Nov. 29; Sp. p. 6358; Gaz. vol. 160; p. 1088.
Vogel, Ernest, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Redeeming bristles. No. 977,057; Nov. 29; Sp. p. 6577; Gaz. vol. 160; p. 1122.
Vogel, Guido C., and C. P. Bossert, Milwaukee, Wis. Tanning machinery. No. 945,878; Jan. 11; Sp. p. 1944; Gaz. vol. 150; p. 324.
Vogel, John C., Philadelphia, Pa. Connector for electrical conductors. No. 953,934; Apr. 5; Sp. p. 495; Gaz. vol. 153; p. 90.
Vogel, John C., assignor, by mesne assignments, to Fairmount Electric and Manufacturing Company, Philadelphia, Pa. Electric-conduit fitting. No. 960,744; June 7; Sp. p. 1019; Gaz. vol. 155; p. 172.
Vogel, Firm of M. B. (See Boessneck, Paul, assignor.)
Vogel & Noot. (See Szalai, Ignac, assignor.)
Vogel, W. & G. (See Märksch, Paul, assignor.)
Vogel, William C., and J. A. Hutchens, Rockford, Ill. Pianissimo device. No. 963,837; July 12; Sp. p. 1823; Gaz. vol. 156; p. 300.
Vogeli, John J., San Francisco, Cal. Card system. No. 958,337; May 17; Sp. p. 4245; Gaz. vol. 154; p. 692.
Vogelmann, Joseph A., Brooklyn, N. Y. Self-filling fountain-pen. No. 961,663; June 14; Sp. p. 2933; Gaz. vol. 155; p. 508.
Vogelmann, Joseph A., Brooklyn, N. Y. Fountain-pen. No. 979,360; Dec. 20; Sp. p. 4199; Gaz. vol. 161; p. 724.
Vogt, Axel S. (See Epright, Alonzo W., assignor.)
Vogt, Clarence, Berlin, Germany, assignor to Victor Talking Machine Company. Talking-machine. No. 951,158; Mar. 8; Sp. p. 1405; Gaz. vol. 152; p. 255.
Vogt, Lillian F. and W. G., Pinegrove, Mont. Curtain-fixture. No. 962,275; June 21; Sp. p. 4278; Gaz. vol. 155; p. 739.
Vogt, William G. (See Vogt, Lillian F. and W. G.)
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock and latch. No. 947,089; Jan. 18; Sp. p. 4616; Gaz. vol. 150; p. 762.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-controlling apparatus. No. 951,295; Mar. 8; Sp. p. 1686; Gaz. vol. 152; p. 298.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Casement-window adjusting and locking means. No. 952,056; Mar. 15; Sp. p. 3240; Gaz. vol. 152; p. 583.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Night-latch construction. No. 953,075; Mar. 29; Sp. p. 5352; Gaz. vol. 152; p. 985.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 956,004; Apr. 26; Sp. p. 5013; Gaz. vol. 153; p. 886.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Latch and latch-connecting apparatus. No. 956,005; Apr. 26; Sp. p. 5015; Gaz. vol. 153; p. 886.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Casement-window-adjusting device and lock. No. 960,452; June 7; Sp. p. 420; Gaz. vol. 155; p. 71.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Panic-bolt with adjustment between toggle and bolt. No. 961,327; June 14; Sp. p. 2248; Gaz. vol. 155; p. 396.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 962,276; June 21; Sp. p. 4279; Gaz. vol. 155; p. 739.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Double-acting spring-hinge. No. 965,967; Aug. 2; Sp. p. 251; Gaz. vol. 157; p. 42.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 973,728; Oct. 25; Sp. p. 4864; Gaz. vol. 159; p. 846.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock system. No. 974,317; Nov. 1; Sp. p. 544; Gaz. vol. 160; p. 80.

Alphabetical list of patentees—Continued.

Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 977,688; Dec. 6; Sp. p. 606; Gaz. vol. 161; p. 92.

Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Sash-pulley. No. 978,796; Dec. 13; Sp. p. 2970; Gaz. vol. 161; p. 503.

Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Cylinder-lock. No. 978,964; Dec. 20; Sp. p. 3337; Gaz. vol. 161; p. 587.

Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Key-holder for locks. No. 978,965; Dec. 20; Sp. p. 3339; Gaz. vol. 161; p. 588.

Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Sash-cord pulley. No. 980,031; Dec. 27; Sp. p. 5653; Gaz. vol. 161; p. 974.

Voight, Henry G., and N. B. Hurd, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-controlling mechanism. No. 958,447; May 17; Sp. p. 4464; Gaz. vol. 154; p. 730.

Voigt, Albert, New York, N. Y. Connector for glass plates. No. 945,351; Jan. 4; Sp. p. 755; Gaz. vol. 150; p. 116.

Voigt, George W., Chicago, Ill. Mechanism for opening and closing car-doors. No. 965,770; July 26; Sp. p. 5989; Gaz. vol. 156; p. 1018.

Voigt, Philip, and C. Kornmayer, Houston, Tex. Pattern and match plate. No. 965,968; Aug. 2; Sp. p. 252; Gaz. vol. 157; p. 43.

Voigt, Thomas. (See Goldenstein and Voigt.)

Voitle, Charles E., *et al.* (See Blair, George W., assignor.)

Volbert, John, Pittsburg, Pa. Ratchet tool-holder. No. 959,408; May 24; Sp. p. 6442; Gaz. vol. 154; p. 1078.

Volckening, Charles K., New York, N. Y. Brush for bottle-washing machines. No. 961,563; June 14; Sp. p. 2741; Gaz. vol. 155; p. 475.

Volckening, Charles K., New York, N. Y. Mouthpiece for bottle-washers. No. 965,051; July 19; Sp. p. 4453; Gaz. vol. 156; p. 741.

Vold, Alfred M., Chicago, Ill. Windmill. No. 961,271; June 14; Sp. p. 2097; Gaz. vol. 155; p. 375.

Volk, Ferdinand, and T. G. McGann, assignors of one-third to J. A. Duffy, Pittsburg, Pa. Door-operating mechanism for street-cars. No. 952,966; Mar. 22; Sp. p. 5120; Gaz. vol. 152; p. 919.

Volk, Julius, St. Louis, Mo. Portable folding window-scaffold. No. 976,233; Nov. 22; Sp. p. 4745; Gaz. vol. 160; p. 814.

Volk, Max C., Chicago, Ill. Apparatus for loading cars. No. 966,493; Aug. 9; Sp. p. 1387; Gaz. vol. 157; p. 244.

Volkers, Emil, Berlin, Germany. Rotary field-magnet. No. 964,343; July 12; Sp. p. 2853; Gaz. vol. 156; p. 470.

Volkhardt, William, Stapleton, N. Y. Valve. No. 950,829; Mar. 1; Sp. p. 793; Gaz. vol. 152; p. 126.

Volkmann, Paul, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Greenish-yellow dye. No. 969,428; Sept. 6; Sp. p. 592; Gaz. vol. 158; p. 94.

Volkmann, Paul, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow dye. No. 972,951; Oct. 18; Sp. p. 3190; Gaz. vol. 159; p. 555.

Volkmar, Bernhard, New York, N. Y., assignor to Auto Improvement Company. Vibration-indicator. No. 962,679; June 28; Sp. p. 5152; Gaz. vol. 155; p. 901.

Volkmar, Bernhard, New York, N. Y., assignor to Auto Improvement Company. Protective casing. No. 962,680; June 28; Sp. p. 5155; Gaz. vol. 155; p. 901.

Voll, Jacob, Yankton, S. D., and D. Dringman, Sutherland, Nebr. Hay-rack. No. 959,274; May 24; Sp. p. 6188; Gaz. vol. 154; p. 1034.

Vollen, Joseph T. (See Homme, Vollen, and Isaacson.)

Völler, Karl, Dusseldorf, Germany. Aiming apparatus for guns. No. 979,232; Dec. 20; Sp. p. 3952; Gaz. vol. 161; p. 682.

Vollmer, Gustav C., St. Louis, Mo. Air-compressor. No. 966,494; Aug. 9; Sp. p. 1388; Gaz. vol. 157; p. 244.

Vollmer, John, Boston, Mass., and R. S. Talbot, Appleton, Wis. Apparatus for making bisulfite liquor. No. 945,426; Jan. 4; Sp. p. 911; Gaz. vol. 150; p. 142.

Vollmer, Joseph, Berlin, Germany, assignor to General Electric Company. Frictional clutch or coupling. No. 969,577; Sept. 6; Sp. p. 911; Gaz. vol. 158; p. 145.

Voltz, George M., St. Joseph, Mo. Sill-bar. No. 966,627; Aug. 9; Sp. p. 1700; Gaz. vol. 157; p. 290.

Voltz, William, Chicago, Ill. Electric lighter. No. 951,159; Mar. 8; Sp. p. 1409; Gaz. vol. 152; p. 255.

Volz, Henry, *et al.* (See Haddock, Worcester, assignor.)

Volz, Otto. (See Oehme, Reinhard, assignor.)

Volz, Simon, Milwaukee, Wis., assignor to The 20th Century Machinery Company, Chicago, Ill. Bottle-rinsing machine. No. 951,466; Mar. 8; Sp. p. 2052; Gaz. vol. 152; p. 356.

Vondenbosch, Raymond H., Hollywood, assignor of one-half to G. Fritz, Los Angeles, Cal. Furnace. No. 945,994; Jan. 11; Sp. p. 2200; Gaz. vol. 150; p. 365.

Vonderahe, Frederick C., Jr., Oregon City, Oreg. Bag-holder. No. 945,645; Jan. 4; Sp. p. 1367; Gaz. vol. 150; p. 213.

Vonderahe, Frederick C., Jr., Oregon City, Oreg. Sack-holder. No. 945,646; Jan. 4; Sp. p. 1370; Gaz. vol. 150; p. 214.

Vonderahe, Frederick C., Jr., Oregon City, Oreg. Bag-holder. No. 974,615; Nov. 1; Sp. p. 1224; Gaz. vol. 160; p. 188.

Vondracek, Frank J., Cedar Rapids, Iowa. Tiling-spade. No. 963,668; July 5; Sp. p. 1405; Gaz. vol. 156; p. 220.

Voorhees, Maverick. (See O'Neill and Voorhees.)

Vorce, Albert F., Benzonia, Mich. Perfume-vending machine. No. 955,723; Apr. 19; Sp. p. 4402; Gaz. vol. 153; p. 759.

Vorhies, Elmer E. (See Foster, James E., assignor.)

Voris, Clifford D., Crawfordsville, Ind. Fence-post. No. 952,654; Mar. 22; Sp. p. 4479; Gaz. vol. 152; p. 815.

Vormbaum, Johannes, Duisburg-Meiderich, Germany. Display apparatus. No. 950,498; Mar. 1; Sp. p. 85; Gaz. vol. 152; p. 14.

Vorwerk, Carl, Leutesdorf, Germany. Needle-loom. No. 953,770; Apr. 5; Sp. p. 176; Gaz. vol. 153; p. 32.

Vose, Ambrose S., assignor to R. L. Vose, Brookline, Mass. Machine for trimming the edges of boots and shoes. No. 949,047; Feb. 15; Sp. p. 2679; Gaz. vol. 151; p. 477.

Vose, Ambrose S., assignor to R. L. Vose, Brookline, Mass. Machine for trimming the soles of boots and shoes. No. 971,809; Oct. 4; Sp. p. 622; Gaz. vol. 159; p. 109.

Vose, Harold P., New York, N. Y. Ventilator. No. 967,589; Aug. 16; Sp. p. 3742; Gaz. vol. 157; p. 643.

Vose, Ruth L. (See Ayer, Albert E., assignor.)

Vose, Ruth L. (See Vose, Ambrose S., assignor.)

Vose, Samuel F., Shawnee, Okla. Scraper. No. 967,088; Aug. 9; Sp. p. 2702; Gaz. vol. 157; p. 444.

Vosper, William W., assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio. Pipe-threading machine. No. 971,941; Oct. 4; Sp. p. 947; Gaz. vol. 159; p. 160.

Voss, Detlef C., Somerville, assignor, by mesne assignments, to W. L. Hendricks, Boston, Mass. Garment-marker for laundries and the like. (Reissue.) No. 13,126; July 5; Sp. p. 1568; Gaz. vol. 156; p. 242.

Voss, Frederick. (See Hegbom, Marselius, assignor.)

Voss, Hugo P., New York, N. Y. Bracket for telephone-receivers. No. 959,409; May 24; Sp. p. 6443; Gaz. vol. 154; p. 1078.

Voss, Robert. (See Schmidt, Bryk, and Voss.)

Voss, Samuel, Pankow, near Berlin, Germany. Crane. No. 952,850; Mar. 22; Sp. p. 4896; Gaz. vol. 152; p. 881.

Voss, William, Wilmington, Del., assignor to American Car and Foundry Company, St. Louis, Mo. Truck. No. 978,242; Dec. 13; Sp. p. 1786; Gaz. vol. 161; p. 313.

Voss, William R., assignor to The Commercial Non-Refillable Bottle Stopper Co., San Francisco, Cal. Non-refillable-bottle stopper. No. 962,681; June 28; Sp. p. 5157; Gaz. vol. 155; p. 902.

Vossberg, Gustav, Toledo, Ohio. Swivel-joint for electric-light fixtures. No. 958,448; May 17; Sp. p. 4466; Gaz. vol. 154; p. 730.

Vosseller, Henry P., Plainfield, N. J. Roller-skate. No. 964,825; July 19; Sp. p. 3991; Gaz. vol. 156; p. 664.

Vote Berger Company, The. (See Enochs, Claude D., assignor.)

Vote Berger Company. (See Mattison, Hans S., assignor.)

Vote-Berger Company. (See Wallace, John N., assignor.)

Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company, New York, N. Y. Mechanical musical instrument. (Reissue.) No. 13,076; Jan. 11; Sp. p. 3431; Gaz. vol. 150; p. 550.

Votteler, William, Louisville, Ky. Proportional powder-divider. No. 976,320; Nov. 22; Sp. p. 4951; Gaz. vol. 160; p. 844.

Vough, Lyman J., Dushore, Pa. Plate-holder. No. 950,522; Mar. 1; Sp. p. 134; Gaz. vol. 152; p. 22.

Vough, William C., Waterloo, N. Y. Pianissimo device for piano-actions. No. 952,550; Mar. 22; Sp. p. 4238; Gaz. vol. 152; p. 777.

Vought, Henry H., Jr., New York, N. Y. Floor construction. No. 969,314; Sept. 6; Sp. p. 336; Gaz. vol. 158; p. 56.

Voynow, Constantine B. (See Taylor and Voynow.)

Voynow, Constantine B., and G. B. Taylor, Philadelphia, Pa. Railway. No. 976,708; Nov. 22; Sp. p. 5766; Gaz. vol. 160; p. 976.

Vraalstad, Edward J., assignor of one-half to Buffalo Pitts Company, Buffalo, N. Y. Threshing-machine frame. No. 947,137; Jan. 18; Sp. p. 4697; Gaz. vol. 150; p. 775.

Vraalstad, Edward J., assignor of one-half to Buffalo Pitts Company, Buffalo, N. Y. Separator and stacker. No. 954,365; Apr. 5; Sp. p. 1419; Gaz. vol. 153; p. 236.

Vraalstad, Edward J., assignor of one-half to Buffalo Pitts Company, Buffalo, N. Y. Separator and stacker. (Reissue.) No. 13,156; Oct. 11; Sp. p. 2772; Gaz. vol. 159; p. 472.

Vrba, Edward, Minneapolis, Minn. Chair. No. 953,872; Apr. 5; Sp. p. 378; Gaz. vol. 153; p. 68.

Vrbsky, Charles, Cleveland, Ohio. Lock. No. 969,578; Sept. 6; Sp. p. 914; Gaz. vol. 158; p. 145.

Vreeland, Frederick K., Montclair, N. J., assignor to Wireless Telegraph Exploitation Company, New York, N. Y. Electrical oscillator. No. 973,826; Oct. 25; Sp. p. 5058; Gaz. vol. 159; p. 880.

Vreeland, George H. (See McGaffey, Richard, assignor.)

Alphabetical list of patentees—Continued.

Vreeland, Jacob C., New York, N. Y. Mold for making hollow building-blocks. No. 973,323; Oct. 18; Sp. p. 3990; Gaz. vol. 159; p. 683.
Vroman, Charles, and F. L. Hamilton, Sausalito, Cal. Device for locating sunken vessels. No. 946,174; Jan. 11; Sp. p. 2571; Gaz. vol. 150; p. 427.
Vroom, Oler P., assignor to Superior Hay Stacker Mfg. Company, Linneus, Mo. Brake mechanism for hay-stackers. No. 951,208; Mar. 8; Sp. p. 1499; Gaz. vol. 152; p. 271.
Vrooman, Edwin E., Hyattsville, Md. Conveyer. No. 968,211; Aug. 23; Sp. p. 5071; Gaz. vol. 157; p. 874.
Vulcan Steam Shovel Company, The. (See Frayer, Charles A., assignor.)
Vulcan Steam Shovel Company, The. (See Webber, John B., Jr., assignor.) (Reissue.)
Vulpescu, Iov, Detroit, Mich. Means for fastening rubber heels. No. 979,361; Dec. 20; Sp. p. 4200; Gaz. vol. 161; p. 724.
Vuncannon, Eli, assignor of one-half to D. Kinsey, Prague, Okla. Detachable axle-stub. No. 977,985; Dec. 6; Sp. p. 1216; Gaz. vol. 161; p. 195.
Vysa, Frank J. (See Dolar and Vysa.)
W. C. Heller & Co., The. (See Heller, William C., assignor.)
W. D. Allen Manufacturing Company. (See Gibbs, Henry, assignor.)
W. & E. T. Fitch Co., The. (See Hubbard, George M., assignor.)
W. F. Brown Company. (See Brown, Walter F., assignor.)
W. F. & John Barnes Company. (See Barnes, John S., assignor.)
W. F. & John Barnes Company. (See Barnes, Joseph P., assignor.)
W. F. & John Barnes Company. (See Barnes, William F., assignor.)
W. F. & John Barnes Company. (See Barnes and Vincer, assignors.)
W. G. Armstrong Whitworth & Company. (See Sodeau, William H., assignor.)
W. G. Nagel Electric Company, The. (See Peirce, Charles L., Jr., assignor.)
W. G. Stowell Company, The. (See Stowell, William G., assignor.)
W. H. Miner Company. (See Nash, Charles J., assignor.)
W. H. Miner Company. (See O'Connor, John F., assignor.)
W. H. Saart Company, The. (See Saart, William H., assignor.)
W. J. Leary Manufacturing Co. (See Leary, William J., assignor.)
W. & J. Sloane. (See Adams, Harry C., assignor.)
W. K. Kenly Company. (See Latimer and Cloud, assignors.)
W. S. Ray Manufacturing Co. (See Ray, William S., assignor.)
W. S. Tyler Company, The. (See Reynolds, Morley P., assignor.)
W. V. Bowater & Sons. (See Bellamy, Henry J., assignor.)
W. W. Kimball Company. (See Hiscock, Emory C., assignor.)
Waage, Alvin H. and C. P., Chicago, Ill. Electric soldering-iron. No. 979,904; Dec. 27; Sp. p. 5391; Gaz. vol. 161; p. 931.
Waage, Clarence P. (See Waage, Alvin H. and C. P.)
Waage, Johan, *et al.* (See Gibson, Humphrey M., assignor.)
Wachenfeld, Georg, Bad Nauheim, Germany. Water-closet. No. 971,706; Oct. 4; Sp. p. 406; Gaz. vol. 159; p. 71.
Wachsmundt, Max, A. Kurz, Berlin, and C. Jacobi, Südende, near Berlin, Germany. Apparatus for producing depressions in metal printing-plates. No. 947,264; Jan. 25; Sp. p. 4987; Gaz. vol. 150; p. 847.
Wachtel, Sidney. (See Silbert and Wachtel.)
Wachtler, Frank E. (See Davidson, John E., assignor.)
Wackerle, Edward J., Jacksonville, Ill. Flushing-tank valve. No. 954,065; Apr. 5; Sp. p. 768; Gaz. vol. 153; p. 134.
Wackman, Adam, St. Louis, Mo. Draft-rigging for railway-cars. No. 966,495; Aug. 9; Sp. p. 1390; Gaz. vol. 157; p. 244.
Waddell, Jenkinson W., Belmont, Ohio. Rail-joint. No. 960,453; June 7; Sp. p. 420; Gaz. vol. 155; p. 71.
Waddell, John A. L., and J. L. Harrington, Kansas City, Mo. Bascule-bridge. No. 952,485; Mar. 22; Sp. p. 4091; Gaz. vol. 152; p. 755.
Waddell, John A. L., and J. L. Harrington, Kansas City, Mo. Lift-bridge. No. 952,486; Mar. 22; Sp. p. 4095; Gaz. vol. 152; p. 755.
Waddell, John A. L., and J. L. Harrington, Kansas City, Mo. Lift-bridge. No. 953,307; Mar. 29; Sp. p. 5860; Gaz. vol. 152; p. 1059.
Waddell, John M., Greenfield, Ohio. Show-case. No. 946,626; Jan. 18; Sp. p. 3617; Gaz. vol. 150; p. 607.
Waddell, Joseph A., Jr. (See Boies and Waddell.)
Waddell, Sidney F., Dothan, Ala. Boring-machine. No. 947,138; Jan. 18; Sp. p. 4698; Gaz. vol. 150; p. 776.
Waddell, Westley, Eagle Grove, Iowa. Claw-bar. No. 977,986; Dec. 6; Sp. p. 1217; Gaz. vol. 161; p. 196.
Waddell, William F. (See Tucker and Waddell.)
Waddie, Henry J. (See Macklin and Waddie.)
Wade, Bernard J. (See Payne and Wade.)
Wade, Charles E., East Orange, N. J. Soap-dispenser. No. 962,682; June 28; Sp. p. 5159; Gaz. vol. 155; p. 902.
Wade, Edgar T. (See Gunthorpe and Wade.)
Wade, Ernest M., Liverpool, England. Reservoir-pen. No. 972,301; Oct. 11; Sp. p. 1719; Gaz. vol. 159; p. 302.
Wade, George H., Atlanta, Ga. Ironing-machine. No. 950,971; Mar. 1; Sp. p. 1066; Gaz. vol. 152; p. 170.
Wade, George H., Atlanta, Ga. Electrically-heated roller. No. 957,824; May 10; Sp. p. 2797; Gaz. vol. 154; p. 480.
Wade, George T., Rockland, Me. Weighing and bagging machine. No. 975,005; Nov. 8; Sp. p. 2120; Gaz. vol. 160; p. 345.
Wade, Hesikiah A. (See Hinshaw and Wade.)
Wade, James O., assignor of one-half to H. C. Pollard, Elon College, N. C. Bobbin-support. No. 947,465; Jan. 25; Sp. p. 5479; Gaz. vol. 150; p. 916.
Wadham, Percy F., Newport, Isle of Wight, England. Fishing-reel. No. 975,587; Nov. 15; Sp. p. 3364; Gaz. vol. 160; p. 571.
Wadhams, Malkom H., Las Animas, Colo. Beet-harvester. No. 975,586; Nov. 15; Sp. p. 3362; Gaz. vol. 160; p. 571.
Wadleigh, William M., Chicago, Ill. Whiffletree-hook. No. 949,556; Feb. 15; Sp. p. 3721; Gaz. vol. 151; p. 647.
Wadley, Henry L., Sentinel, Okla. Oil-burner. No. 967,089; Aug. 9; Sp. p. 2705; Gaz. vol. 157; p. 444.
Wadsworth, Albert A., and F. Shortland, Rushden, England, assignors to United Shoe Machinery Company, Paterson, N. J. Work-feeding and work-guiding mechanism for shoe-machines. No. 945,064; Jan. 4; Sp. p. 119; Gaz. vol. 150; p. 20.
Wadsworth, Frank L. O., Pittsburg, Pa. Apparatus for exhausting incandescent lamps. No. 945,823; Jan. 11; Sp. p. 1813; Gaz. vol. 150; p. 304.
Wadsworth, Frank L. O., Morgantown, W. Va., assignor to Pressed Prism Plate Glass Company, New York, N. Y. Manufacture of plate-glass. No. 952,390; Mar. 15; Sp. p. 3878; Gaz. vol. 152; p. 694.
Wadsworth, George H., Lyndhurst, assignor to The Schultze Gunpowder Company Limited, London, England. Machinery or apparatus for dividing gelatinous gunpowder into particles or grains. No. 946,745; Jan. 18; Sp. p. 3864; Gaz. vol. 150; p. 645.
Waechter, Ferdinand F., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Equalizing-wheels. No. 966,272; Aug. 2; Sp. p. 906; Gaz. vol. 157; p. 145.
Waechtler, Moritz, St. Louis, Mo. Snare-drum muffler. No. 948,195; Feb. 1; Sp. p. 845; Gaz. vol. 151; p. 139.
Wagemann, Frank H., Des Moines, Iowa. Producing a pale chill-proof beer. No. 949,011; Feb. 15; Sp. p. 2595; Gaz. vol. 151; p. 465.
Wagener, Clemens, Berlin, Germany, assignor to L. Bichler, Innsbruck, Austria-Hungary. Ice-making machine. No. 958,683; May 17; Sp. p. 4919; Gaz. vol. 154; p. 807.
Wagener, Emil, Dahlhausen-on-the-Ruhr, Germany. Regenerative coke-oven. No. 977,348; Nov. 29; Sp. p. 7195; Gaz. vol. 160; p. 1223.
Wagener, Emil, Dahlhausen-on-the-Ruhr, Germany. Removing tar in recovering ammonia. No. 977,909; Dec. 6; Sp. p. 1060; Gaz. vol. 161; p. 169.
Wagg, Angie M., *et al.* (See Wagg, Solomon R. and W. L., assignors.)
Wagg, James B., *et al.* (See Wagg, Solomon R. and W. L., assignors.)
Wagg, Solomon R. and W. L., assignors of one-third to J. B. Wagg, Appleton, Wis. Driving mechanism for paper-refining engines. No. 965,771; July 26; Sp. p 5991; Gaz. vol. 156; p. 1018.
Wagg, Solomon R. and W. L., assignors of one-fourth to A. M. Wagg and one-fourth to J. B. Wagg, Appleton, Wis. Driving mechanism for paper-refining engines. No. 966,273; Aug. 2; Sp. p. 908; Gaz. vol. 157; p. 145.
Wagg, William L. (See Wagg, Solomon R. and W. L.)
Waggoner, Samuel T., and T. T. Heard, Buffalo, N. Y. Reel for drying clothes, &c. No. 975,660; Nov. 15; Sp. p. 3529; Gaz. vol. 160; p. 595.
Wagler, Charles. (See Wagler, Emil and C.)
Wagler, Emil and C., Pittsburg, Pa. Concrete fence. No. 948,834; Feb. 8; Sp. p. 2239; Gaz. vol. 151; p. 379.
Wagley, Samuel L. (See Wynne and Wagley.)
Wagner, Adam, Cedar Falls, Iowa. Tubular track and bracket. No. 955,371; Apr. 19; Sp. p. 3619; Gaz. vol. 153; p. 638.
Wagner, Adam, Cedar Falls, Iowa. Door-hanger. No. 962,538; June 28; Sp. p. 4859; Gaz. vol. 155; p. 854.
Wagner, Allen M., Pendleton, Ind. Railway tie and clamp. No. 955,724; Apr. 19; Sp. p. 4404; Gaz. vol. 153; p. 759.
Wagner, Charles A., East Pittsburg, Pa. Cuspidor. No. 964,193; July 12; Sp. p. 2538; Gaz. vol. 156; p. 418.
Wagner, Charles B., Jr., Burlington, Wis. Calf-weaner. No. 967,468; Aug. 16; Sp. p. 3484; Gaz. vol. 157; p. 601.
Wagner, Clinton D., Cedar Rapids, Iowa. Damper-clip. No. 947,505; Jan. 25; Sp. p. 5603; Gaz. vol. 150; p. 930.
Wagner, Constantin, New York, N. Y. Butter-tester. No. 955,725; Apr. 19; Sp. p. 4405; Gaz. vol. 153; p. 760.
Wagner Electric Manufacturing Company. (See Flagg, Ray, assignor.)
Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)

Wagner Electric Manufacturing Company. (See Sparrow, Simon, assignor.)
Wagner Electric Manufacturing Company. (See Weichsel, Hans, assignor.)
Wagner Electric Manufacturing Company. (See Wiemer, Otto, assignor.)
Wagner, Frank, Milwaukee, Wis. Kitchen implement. No. 966,496; Aug. 9; Sp. p. 1397; Gaz. vol. 157; p. 245.
Wagner, Frank, Reaburn post-office, Manitoba, Canada. Bucket. No. 974,217; Nov. 1; Sp. p. 256; Gaz. vol. 160; p. 42.
Wagner, Frank B., Cleveland, Ohio. Trolley-guard. No. 957,585; May 10; Sp. p. 2303; Gaz. vol. 154; p. 400.
Wagner, Frank F., and N. W. McDonald, Elizabeth, Pa. Cut-out and shunt switch for electric lamps. No. 975,484; Nov. 15; Sp. p. 3128; Gaz. vol. 160; p. 535.
Wagner, George C. (See Pond and Wagner.)
Wagner, Gustave H., Kansas City, Mo. Pen-rack. No. 952,593; Mar. 22; Sp. p. 4332; Gaz. vol. 152; p. 793.
Wagner, Henry J., Roxbury, Mass. Tree-holder. No. 952,655; Mar. 22; Sp. p. 4480; Gaz. vol. 152; p. 815.
Wagner, Herman L., Mount Vernon, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 946,814; Jan. 18; Sp. p. 4041; Gaz. vol. 150; p. 670.
Wagner, Herman L., Mount Vernon, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 947,873; Feb. 1; Sp. p. 214; Gaz. vol. 151; p. 34.
Wagner, Hubert, Munich, assignor to Charlottenburger Farbwerke Aktiengesellschaft, Charlottenburg, Prussia, Germany. Cemented lithographic stone. (Reissue.) No. 13,084; Feb. 22; Sp. p. 5657; Gaz. vol. 151; p. 991.
Wagner, Jacob. (See Wagner, Nickolaus and J.)
Wagner, John F. (See Falker, Schultz, and Wagner.)
Wagner, John H. (See Clement and Wagner.)
Wagner, Lawrence, Sedalia, Mo. Ammonia-purifier for refrigerating plants. No. 955,726; Apr. 19; Sp. p. 4407; Gaz. vol. 153; p. 760.
Wagner Manufacturing Co. (See Bingham, Robert O., assignor.)
Wagner, Marion A., Des Moines, Iowa. Combination level and plumb. No. 963,189; July 5; Sp. p. 411; Gaz. vol. 156; p. 58.
Wagner, Marion A., assignor of one-fourth to V. Carlson, Des Moines, Iowa. Automobile emergency-brake. No. 952,851; Mar. 22; Sp. p. 4898; Gaz. vol. 152; p. 882.
Wagner, Nickolaus and J., Caldwell, Idaho. Windmill. No. 953,566; Mar. 29; Sp. p. 6428; Gaz. vol. 152; p. 1150.
Wagner, Reinhart V., London, England. Resilient wheel or tire. No. 951,209; Mar. 8; Sp. p. 1501; Gaz. vol. 152; p. 271.
Wagner, W. H. (See Smith, Arthur C., assignor.)
Wagner, William. (See Gosse and Wagner.)
Wagner, William F., assignor to Standard Gear Grinding Co., Detroit, Mich. Gear-grinding machine or the like. No. 966,967; Aug. 9; Sp. p. 2444; Gaz. vol. 157; p. 402.
Wagner, William F., assignor to Pooley Furniture Company, Philadelphia, Pa. Supporting and guiding device for furniture-drawers. No. 977,349; Nov. 29; Sp. p. 7197; Gaz. vol. 160; p. 1224.
Wagniere, August, assignor to E. W. Peck and T. R. Owen, Los Angeles, Cal. Delivery mechanism for pencil-vending machines. No. 956,006; Apr. 26; Sp. p. 5016; Gaz. vol. 153; p. 887.
Wagnitz, John A., Columbus, Ohio. Folding box. No. 956,236; Apr. 26; Sp. p. 5541; Gaz. vol. 153; p. 967.
Wagoner, Louesa, Matfield Green, Kans. Washing-machine. No. 967,864; Aug. 16; Sp. p. 4287; Gaz. vol. 157; p. 734.
Wahl Adding Machine Co. (See Webster, Bester R., assignor.)
Wahl, George B. (See Bussabarger, William H., assignor.)
Wahl-Henius Institute of Fermentology. (See Nilson, Arvid, assignor.)
Wahl, Joseph, New York, N. Y. Packing-box. No. 972,586; Oct. 11; Sp. p. 2352; Gaz. vol. 159; p. 402.
Wahl, Robert, Chicago, Ill. Manufacture of malt beverages. No. 979,810; Dec. 27; Sp. p. 5190; Gaz. vol. 161; p. 900.
Wahlert, Henry A. (See Cass and Wahlert.)
Wahlin, Axel W., Chicago, Ill. Spherical dice. No. 973,595; Oct. 25; Sp. p. 4572; Gaz. vol. 159; p. 798.
Wahlstrom, Verner J., New York, N. Y. Oil-cup. No. 978,521; Dec. 13; Sp. p. 2378; Gaz. vol. 161; p. 411.
Wahlstrom, Verner J., assignor of one-half to B. T. Burchardi, Brooklyn, N. Y. Tapping or drilling attachment. No. 968,718; Aug. 30; Sp. p. 6165; Gaz. vol. 157; p. 1077.
Wahlstrom, Verner J., New York, assignor of one-half to B. T. Burchardi, Brooklyn, N. Y. Drilling-machine and drill. No. 970,670; Sept. 20; Sp. p. 3275; Gaz. vol. 158; p. 564.
Waibel, Henry, Cleveland, Ohio. Branding-machine. No. 949,786; Feb. 22; Sp. p. 4195; Gaz. vol. 151; p. 758.
Waibel, Henry, Cleveland, Ohio. Branding-machine. No. 958,449; May 17; Sp. p. 4467; Gaz. vol. 154; p. 731.
Wailgum, Mathias, Jr., Holyoke, Mass. Ship construction. No. 972,042; Oct. 4; Sp. p. 1164; Gaz. vol. 159; p. 196.
Wainblatt, Bany. (See Glaser and Wainblatt.)
Wainford, Richard H., Newcastle-under-Lyme, England. Scouring apparatus. No. 953,450; Mar. 29; Sp. p. 6183; Gaz. vol. 152; p. 1108.
Wainwright, Charles. (See Barr and Wainwright.)
Wainwright, Charles, Erie, Pa. Compressor and vacuum-pump valve. No. 965,052; July 19; Sp. p. 4455; Gaz. vol. 156; p. 742.
Wainwright, Henry H., Philadelphia, and H. A. Miner, Norristown, Pa. Reinforced column of concrete. No. 966,274; Aug. 2; Sp. p. 910; Gaz. vol. 157; p. 146.
Wainwright, John G., London, England. Sliding bolt. No. 964,948; July 19; Sp. p. 4239; Gaz. vol. 156; p. 708.
Wainwright, John W., New York, N. Y. Syringe. No. 951,160; Mar. 8; Sp. p. 1410; Gaz. vol. 152; p. 256.
Wait, Henry H., Chicago, Ill. Turbine-blade. No. 961,328; June 14; Sp. p. 2250; Gaz. vol. 155; p. 397.
Wait, Henry H., Chicago, Ill. Turbine-blade. No. 961,329; June 14; Sp. p. 2253; Gaz. vol. 155; p. 397.
Wait, Henry H., Chicago, Ill. Rotor for high-speed electrical machines. No. 980,032; Dec. 27; Sp. p. 5653; Gaz. vol. 161; p. 974.
Wait, Orlin, San Jose, Cal. Self-propelled plow. No. 975,305; Nov. 8; Sp. p. 2775; Gaz. vol. 160; p. 448.
Wait, Walter S. (See Cartwright, David J., assignor.)
Wait, Wesley, Newburgh, N. Y. Bench for greenhouses. No. 948,620; Feb. 8; Sp. p. 1784; Gaz. vol. 151; p. 306.
Wait, William B., New York, N. Y. Device for automatically adjusting plates. No. 978,081; Dec. 6; Sp. p. 1414; Gaz. vol. 161; p. 228.
Wait, William O., assignor of one-half to C. H. Patterson, Jackson, Mich. Knitting-machine bed. No. 959,822; May 31; Sp. p. 7335; Gaz. vol. 154; p. 1243.
Waite, Azro H., El Paso, Ill. Vapor-burner. No. 959,410; May 24; Sp. p. 6446; Gaz. vol. 154; p. 1078.
Waite, Charles N., Wilmington, Del. Discharging pulp-digesters. No. 953,076; Mar. 29; Sp. p. 5353; Gaz. vol. 152; p. 985.
Waite, Fred, Otley, England. Rotary printing-machine. No. 970,000; Sept. 13; Sp. p. 1855; Gaz. vol. 158; p. 316.
Waite, Gilman. (See Washburn, Theodore W., assignor.)
Waite, Harry C., assignor of one-half to S. W. Watkins, Milwaukee, Wis. Power-transmitting mechanism. No. 953,308; Mar. 29; Sp. p. 5864; Gaz. vol. 152; p. 1059.
Waite, Harry F., New York, N. Y. X-ray apparatus. No. 967,469; Aug. 16; Sp. p. 3486; Gaz. vol. 157; p. 601.
Waite, James F., Cleveland, Ohio. Driving mechanism for vehicles. No. 948,749; Feb. 8; Sp. p. 2054; Gaz. vol. 151; p. 351.
Waite, James F., Cleveland, Ohio. Driving mechanism for vehicles. (Reissue.) No. 13,113; May 10; Sp. p. 2874; Gaz. vol. 154; p. 493.
Waite, John H., Brockton, Mass. Foot-measuring device. No. 949,289; Feb. 15; Sp. p. 3161; Gaz. vol. 151; p. 557.
Waite, Merton E., Syracuse, N. Y. Hair-dyeing comb. No. 945,647; Jan. 4; Sp p. 1372; Gaz. vol. 150; p. 214.
Waite, Richard H., Denver, Colo. Thermostat. No. 975,909; Nov. 15; Sp. p. 4028; Gaz. vol. 160; p. 679.
Waits, Ernest F. (See Tudor, Robert H., assignor.)
Waitt, George L., Buffalo, N. Y. Chaplet for molding. No. 961,183; June 14; Sp. p. 1904; Gaz. vol. 155; p. 346.
Waitt, Walter G. (See Barron and Waitt.)
Waitz, Charles A., Rouseville, Pa. Pump. No. 961,820; June 21; Sp. p. 3278; Gaz. vol. 155; p. 584.
Wakefield, Charles. (See Stevens and Wakefield.)
Wakefield, Charles C., London, England. Pump. No. 945,648; Jan. 4; Sp. p. 1373; Gaz. vol. 150; p. 214.
Wakefield, Charles C., London, England. Acetylene-generator. No. 952,296; Mar. 15; Sp. p. 3689; Gaz. vol. 152; p. 659.
Wakefield, Charles C., London, England. Gas-burner for flare-lights. No. 960,127; May 31; Sp. p. 8025; Gaz. vol. 154; p. 1348.
Wakefield, Charles C., London, England. Treatment of calcium carbid. No. 975,306; Nov. 8; Sp. p. 2777; Gaz. vol. 160; p. 448.
Wakefield, Ernest H., Vermilion, Ohio. Hanger for lighting-fixtures. No. 961,050; June 7; Sp. p. 1628; Gaz. vol. 155; p. 273.
Wakefield, Frederick W., Vermilion, Ohio. Lighting-fixture. No. 971,942; Oct. 4; Sp. p. 949; Gaz. vol. 159; p. 160.
Wakefield, Frederick W., Vermilion, Ohio. Lighting-fixture. No. 971,943; Oct. 4; Sp. p. 951; Gaz. vol. 159; p. 160.
Wakefield, Richard A., Midway, Tex. Press-sweep. No. 956,746; May 3; Sp. p. 525; Gaz. vol. 154; p. 85.
Wakefield, William J., Newark, N. J. Locket. No. 958,983; May 24; Sp. p. 5585; Gaz. vol. 154; p. 938.
Wakefield, William O., Schenectady, N. Y., assignor to General Electric Company. Belt-regulator. No. 977,764; Dec. 6; Sp. p. 764; Gaz. vol. 161; p. 118.
Wakley, William, Indian Lake, N. Y. Saw-tool. No. 976,956; Nov. 29; Sp. p. 6360; Gaz. vol. 160; p. 1088.
Walbridge, Thomas H., Toledo, Ohio. Wheel. No. 945,824; Jan. 11; Sp. p. 1818; Gaz. vol. 150; p. 305.
Walbridge, William D. (See Lively, James M., assignor.)
Walch, Emil, Keokuk, Iowa. Shipping-case. No. 959,823; May 31; Sp. p. 7338; Gaz. vol. 154; p. 1243.
Walch, Jacob S., assignor to Walla Walla Iron Works, Walla Walla, Wash. Feeder for threshing-machines. No. 967,690; Aug. 16; Sp. p. 3932; Gaz. vol. 157; p. 675.

Alphabetical list of patentees—Continued.

Walck, Sylvester U., Lehighton, Pa. Brake-beam. No. 955,620; Apr. 19; Sp. p. 4157; Gaz. vol. 153; p. 724.
Walcutt, John M., New York, N. Y. Mechanical picture. No. 969,315; Sept. 6; Sp. p. 338; Gaz. vol. 158; p. 56.
Wald, Edward, *et al.* (See Wright, William, assignor.)
Wald, Max, New York, N. Y. Pickpocket-detector. No. 947,047; Jan. 18; Sp. p. 4536; Gaz. vol. 150; p. 748.
Waldeck, Lorenz, Philadelphia, Pa. Fireproof jewel-case. No. 950,776; Mar. 1; Sp. p. 683; Gaz. vol. 152; p. 109.
Walden, Edward, Ardmore, Okla. Bale or package tie. No. 890,136; Dec. 27; Sp. p. 5906; Gaz. vol. 161; p. 1008.
Waldheim, John, Newark, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 971,944; Oct. 4; Sp. p. 954; Gaz. vol. 159; p. 161.
Waldheim, John, Newark, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 974,318; Nov. 1; Sp. p. 549; Gaz. vol. 160; p. 81.
Waldheim, John, Newark, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 978,522; Dec. 13; Sp. p. 2381; Gaz. vol. 161; p. 411.
Waldren, H. M., *et al.* (See Bjorklund, Charley, assignor.)
Waldron, Charles E., assignor of one-half to C. A. Carter, Portland, Oreg. Rotary engine. No. 954,832; Apr. 12; Sp. p. 2490; Gaz. vol. 153; p. 424.
Waldron Clark Manufacturing Company. (See Pullen, Leon W., assignor.)
Waldron, William H., San Francisco, Cal., and L. R. Krumm, Columbus, Ohio. Antiseptic mouthpiece-cover. No. 965,257; July 26; Sp. p. 4863; Gaz. vol. 156; p. 840.
Waldrum, Joseph W. (See Andrews and Waldrum.)
Waldstein, Charles, Cambridge, England. Attachment for boots or shoes. No. 958,984; May 24; Sp. p. 5586; Gaz. vol. 154; p. 939.
Waldstein, Charles, Cambridge, England. Receptacle having apparatus for projecting disinfecting material, &c., into it. No. 962,067; June 21; Sp. p. 3814; Gaz. vol. 155; p. 668.
Waldvogel, Constantin, Pittsburg, Pa. Surgical instrument. No. 969,579; Sept. 6; Sp. p. 917; Gaz. vol. 158; p. 146.
Waldvogel, Constantin, Pittsburg, Pa. Ice-crushing implement. No. 970,863; Sept. 20; Sp. p. 3703; Gaz. vol. 158; p. 632.
Waldwick, Anthon, Oak Heights Poultry Farm, Wash. Brooder. No. 959,975; May 31; Sp. p. 7694; Gaz. vol. 154; p. 1296.
Wales, Alfred B., Whitman, assignor to B. Fleigel Company, Boston, Mass. Edge-trimmer attachment for sewing-machines. No. 959,275; May 24; Sp. p. 6191; Gaz. vol. 154; p. 1034.
Wales, Charles, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 974,937; Nov. 8; Sp. p. 1948; Gaz. vol. 160; p. 321.
Wales, Charles, assignor to Burroughs Adding Machine Company, Detroit, Mich. Accounting-machine. No. 976,234; Nov. 22; Sp. p. 4746; Gaz. vol. 160; p. 814.
Wales, Emory A., Oklahoma, Okla. Crude-oil burner. No. 978,797; Dec. 13; Sp. p. 2971; Gaz. vol. 161; p. 503.
Wales, Frederick H., Imperial, Cal. Flying-machine. No. 965,969; Aug. 2; Sp. p. 254; Gaz. vol. 157; p. 43.
Wales, Samuel S., Minneapolis, Minn. Adjustable cap for stovepipe-openings. No. 976,321; Nov. 22; Sp. p. 4952; Gaz. vol. 160; p. 844.
Wales, Samuel S., Munhall, assignor to The Carnegie Steel Company, Pittsburg, Pa. Steel alloy. No. 952,391; Mar. 15; Sp. p. 3883; Gaz. vol. 152; p. 695.
Wales, Samuel S., Munhall, assignor to The Carnegie Steel Company, Pittsburg, Pa. Steel alloy. No. 952,392; Mar. 15; Sp. p. 3883; Gaz. vol. 152; p. 695.
Wales, Samuel S., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Heat treatment of steel. No. 979,113; Dec. 20; Sp. p. 3692; Gaz. vol. 161; p. 640.
Walford, Hugh C., Berlin, Ontario, Canada. Lightning-arrester. No. 959,658; May 31; Sp. p. 6982; Gaz. vol. 154; p. 1189.
Walker, A., *et al.* (See Russell, Edward, assignor.)
Walker, Arthur F., Herne Hill, and J. Gilles, Brixton, London, England. Tire-armor. No. 978,243; Dec. 13; Sp. p. 1790; Gaz. vol. 161; p. 314.
Walker, Arthur J., Hooker, Okla. Metal tire-shield. No. 953,873; Apr. 5; Sp. p. 380; Gaz. vol. 153; p. 69.
Walker, Cecil S. (See Smith and Walker.)
Walker, Charles, Knoxville, Tenn. Valve. No. 961,821; June 21; Sp. p. 3280; Gaz. vol. 155; p. 585.
Walker, Charles, Knoxville, Tenn. Valve. No. 965,129; July 19; Sp. p. 4595; Gaz. vol. 156; p. 766.
Walker, Charles, Knoxville, Tenn. Drain-valve. No. 965,772; July 26; Sp. p. 5996; Gaz. vol. 156; p. 1019.
Walker, Charles, Knoxville, Tenn. Coherer for wireless-telegraph systems. No. 968,007; Aug. 23; Sp. p. 4610; Gaz. vol. 157; p. 806.
Walker, Charles F., Stockton, Cal. Invalid-chair. No. 961,389; June 14; Sp. p. 2358; Gaz. vol. 155; p. 417.
Walker, Charles I., Sacramento, Cal. Car-door. No. 967,273; Aug. 16; Sp. p. 3085; Gaz. vol. 157; p. 534.
Walker, Charles W., Bridgeport, Conn., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 952,771; Mar. 22; Sp. p. 4731; Gaz. vol. 152; p. 853.
Walker, Charlie E., Daingerfield, Tex. Baling-press. No. 974,319; Nov. 1; Sp. p. 561; Gaz. vol. 160; p. 81.
Walker, Edward E. (See Knoerl, John, assignor.)
Walker, Edwin, Erie, Pa. Screw-driver. No. 961,184; June 14; Sp. p. 1905; Gaz. vol. 155; p. 346.
Walker, Edwin, Erie, Pa. Meat and fruit press. No. 962,603; June 28; Sp. p. 5011; Gaz. vol. 155; p. 876.
Walker, Edwin, Erie, Pa. Bottle-holder for cork-pullers and other machinery. No. 964,588; July 19; Sp. p. 3415; Gaz. vol. 156; p. 583.
Walker, Edwin, Erie, Pa., assignor to Brunhoff Manufacturing Co., Cincinnati, Ohio. Cigar-cutter. No. 951,467; Mar. 8; Sp. p. 2054; Gaz. vol. 152; p. 356.
Walker, Edwin, Erie, Pa., assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Cigar-cutter. No. 962,481; June 28; Sp. p. 4732; Gaz. vol. 155; p. 835.
Walker, Eli M., assignor to The Charles Parker Company, Meriden, Conn. Swivel-base vise. No. 976,521; Nov. 22; Sp. p. 5381; Gaz. vol. 160; p. 913.
Walker, Enos L., Cape Girardeau, Mo. Knockdown box. No. 973,827; Oct. 25; Sp. p. 5062; Gaz. vol. 159; p. 880.
Walker, Enos L., Cape Girardeau, Mo. Crate. No. 975,661; Nov. 15; Sp. p. 3531; Gaz. vol. 160; p. 596.
Walker, Frank H. (See Moore, David P., assignor.)
Walker, Frank H., Atwood, Kans. Starting device for internal-combustion engines. No. 969,815; Sept. 13; Sp. p. 1459; Gaz. vol. 158; p. 252.
Walker, Frederick C. (See Segal and Walker.)
Walker, Frederick L., assignor to Embury Manufacturing Company, Rochester, N. Y. Globe-lifter for lanterns. No. 963,838; July 12; Sp. p. 1825; Gaz. vol. 156; p. 300.
Walker, George, assignor to Landers, Frary and Clark, New Britain, Conn. Spring-scale. No. 979,611; Dec. 27; Sp. p. 4743; Gaz. vol. 161; p. 833.
Walker, George L., Pueblo, Colo., assignor to Paragon Metals Company, New York, N. Y. Dross-furnace. No. 949,311; Feb. 15; Sp. p. 3202; Gaz. vol. 151; p. 565.
Walker, Grauer C., Chicago, Ill. Ventilator. No. 966,497; Aug. 9; Sp. p. 1399; Gaz. vol. 157; p. 245.
Walker, Henry V., Brooklyn, N. Y., assignor to The Maas & Waldstein Company, Newark, N. J. Desulfurizing petroleum distillates. No. 955,372; Apr. 19; Sp. p. 3620; Gaz. vol. 153; p. 638.
Walker, Henry V., Brooklyn, N. Y., assignor to The Maas & Waldstein Company, Newark, N. J. Chlorhydrins and making same. No. 972,952; Oct. 18; Sp. p. 3190; Gaz. vol. 159; p. 555.
Walker, Henry V., Brooklyn, N. Y., assignor to The Maas & Waldstein Company, Newark, N. J. Solvent for pyroxylin, &c., and making the same. No. 972,953; Oct. 18; Sp. p. 3193; Gaz. vol. 159; p. 555.
Walker, Henry V., Brooklyn, N. Y., assignor to The Maas & Waldstein Company, Newark, N. J. Making hypochlorous acid. No. 972,954; Oct. 18; Sp. p. 3196; Gaz. vol. 159; p. 556.
Walker, Horace E., Detroit, Mich. Non-refillable bottle. No. 948,536; Feb. 8; Sp. p. 1588; Gaz. vol. 151; p. 280.
Walker, Horace E., Detroit, Mich. Wheel. No. 974,320; Nov. 1; Sp. p. 562; Gaz. vol. 160; p. 81.
Walker, Isaac C., Philadelphia, Pa. Hydraulic motor. No. 973,088; Oct. 18; Sp. p. 3476; Gaz. vol. 159; p. 601.
Walker, James J., London, England. Apparatus for producing music-records. No. 967,274; Aug. 16; Sp. p. 3086; Gaz. vol. 157; p. 534.
Walker, James M., Ruby, Wash. Trip-coupling. No. 967,275; Aug. 16; Sp. p. 3089; Gaz. vol. 157; p. 535.
Walker, James R., Pine Ridge, S. D. Steering-gear. No. 960,128; May 31; Sp. p. 8027; Gaz. vol. 154; p. 1348.
Walker, John, assignor to John Walker Machine Company, Boston, Mass. Grinding-mill. No. 950,972; Mar. 1; Sp. p. 1067; Gaz. vol. 152; p. 171.
Walker, John E. (See Crossman, Robert W., assignor.)
Walker, John S. B., Forestburg, Tex. Stove-pipe holder. No. 976,015; Nov. 15; Sp. p. 4226; Gaz. vol. 160; p. 716.
Walker, Joseph D. (See Faris and Walker.)
Walker, L. D., *et al.* (See Russell, Edward, assignor.)
Walker, Lawrence H., and C. E. Wilson, Muskegon, Mich. Sectional cabinet. No. 963,669; July 5; Sp. p. 1406; Gaz. vol. 156; p. 220.
Walker Manufacturing Company. (See Rasmussen, Laurits T., assignor.)
Walker, Miles, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Commutator for dynamo-electric machines. No. 949,103; Feb. 15; Sp. p. 2783; Gaz. vol. 151; p. 494.
Walker, Miles, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 962,683; June 28; Sp. p. 5161; Gaz. vol. 155; p. 903.
Walker, Peter, Dickerson, Miss. Safety attachment for elevators. No. 956,552; May 3; Sp. p. 96; Gaz. vol. 154; p. 18.
Walker, Robert B., Strathcona, Alberta, Canada. Cattle-guard. No. 980,033; Dec. 27; Sp. p. 5656; Gaz. vol. 161; p. 974.
Walker, Rodolphus W., Lawrence, Mass. Support and shifter for driving-belts. No. 972,955; Oct. 18; Sp. p. 3197; Gaz. vol. 159; p. 556.
Walker, Thomas B., *et al.* (See Wickersham, Benjamin F., assignor.)
Walker, Tupper G. (See Adkins, Joseph H., assignor.)

Alphabetical list of patentees—Continued.

Walker, Walter F., assignor to The Confectioners' Machinery & Manufacturing Company, Springfield, Mass. Machine for scouring and cleaning candies. No. 958,338; May 17; Sp. p. 4247; Gaz. vol. 154; p. 693.
Walker, Walter S., Helena, Mo. Road-drag. No. 946,925; Jan. 18; Sp. p. 4314; Gaz. vol. 150; p. 708.
Walker, Walter S., Helena, Mo. Road drag, grader, and scraper. No. 970,580; Sept. 20; Sp. p. 3062; Gaz. vol. 158; p. 533.
Walker, Warren H., assignor to Racine Economy Spring Company, Racine, Wis. Harrow attachment for plows. No. 957,722; May 10; Sp. p. 2587; Gaz. vol. 154; p. 448.
Walker, William A., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 961,918; June 21; Sp. p. 3485; Gaz. vol. 155; p. 617.
Walker, William A., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 963,097; July 5; Sp. p. 165; Gaz. vol. 156; p. 25.
Walker, William B., Gustine, Cal. Attachment for horse-collars. No. 962,180; June 21; Sp. p. 4082; Gaz. vol. 155; p. 708.
Walker, William H., Boston, Mass. Making formic acid. No. 970,145; Sept. 13; Sp. p. 2137; Gaz. vol. 158; p. 365.
Walker, William H., and W. H. McDevitt, Fenelton, Pa. Working-barrel for oil-wells. No. 955,024; Apr. 12; Sp. p. 2902; Gaz. vol. 153; p. 491.
Walker, William P., Macon, Mo. Rain-water cut-off. No. 971,578; Oct. 4; Sp. p. 144; Gaz. vol. 159; p. 27.
Walker, William R., New York, N. Y. Manufacture of steel. No. 967,590; Aug. 16; Sp. p. 3744; Gaz. vol. 157; p. 643.
Walkup, Samuel T. (See Pfister, Louis F., assignor.)
Wall, Charles L., Lawrence, Kans. Blade-harrow. No. 963,670; July 5; Sp. p. 1409; Gaz. vol. 156; p. 220.
Wall, Enos A., Salt Lake City, Utah. Cam-and-tappet mechanism. No. 947,874; Feb. 1; Sp. p. 216; Gaz. vol. 151; p. 34.
Wall, George L., and V. J. Shepard, assignors to Lima Locomotive and Machine Company, Lima, Ohio. Steam-storage locomotive. No. 976,522; Nov. 22; Sp. p. 5383; Gaz. vol. 160; p. 913.
Wall, John, Whitman, Mass. Puzzle. No. 968,296; Aug. 23; Sp. p. 5253; Gaz. vol. 157; p. 904.
Wall, Robert, St. Louis, Mo. Rotary engine. No. 973,897; Oct. 25; Sp. p. 5220; Gaz. vol. 159; p. 905.
Wall, William J. (See Maxwell, Edward, assignor.)
Walla Walla Iron Works. (See Walch, Jacob S., assignor.)
Wallace, Casper D., Bridgeport, Conn., assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 975,739; Nov. 15; Sp. p. 3687; Gaz. vol. 160; p. 621.
Wallace, Edward W., Lake Bluff, Ill. Dental instrument. No. 951.860; Mar. 15; Sp. p. 2849; Gaz. vol. 152; p. 519.
Wallace, Edward W., Lake Bluff, Ill. Dental instrument. No. 951.891; Mar. 15; Sp. p. 2921; Gaz. vol.152; p. 528.
Wallace, Edwin C., East Auburn, Cal. Composite pavement. No. 959,976; May 31; Sp. p. 7696; Gaz. vol. 154; p. 1297.
Wallace, Elmer D. (See Adams and Wallace.)
Wallace, F. G., *et al.* (See Blair, George W., assignor.)
Wallace, George G. (See Payne and Wallace.)
Wallace, George L., Bridgeport, Conn. Apparatus for circulating the liquid in plating-tanks. No. 950,973; Mar. 1; Sp. p. 1069; Gaz. vol. 152; p. 171.
Wallace, George L., Bridgeport, Conn. Wire-plating machine. No. 954,833; Apr. 12; Sp. p. 2492; Gaz. vol. 153; p. 425.
Wallace, Henry B., assignor to Samuel Cupples Wooden Ware Company, St. Louis, Mo. Roll-paper holder and cutter. No. 962,684; June 28; Sp. p. 5163; Gaz. vol. 155; p. 903.
Wallace, Henry B., and A. Lackey, assignors to Samuel Cupples Wooden Ware Company, St. Louis, Mo. Mop. No. 965,546; July 26; Sp. p. 5527; Gaz. vol. 156; p. 940.
Wallace, Howard F., Los Angeles, Cal. Supply-case. No. 956,613; May 3; Sp. p. 229; Gaz. vol. 154; p. 39.
Wallace, Howes C., Denver, Colo. Show-case. No. 962,933; June 28; Sp. p. 5655; Gaz. vol. 155; p. 990.
Wallace, James P., Colorado Springs, Colo. Combined leveler, marker, and border machine. No. 960,454; June 7; Sp. p. 421; Gaz. vol. 155; p. 71.
Wallace, John N., assignor to Vote-Berger Company, La Crosse, Wis. Microtelephone. No. 967,276; Aug. 16; Sp. p. 3090; Gaz. vol. 157; p. 535.
Wallace, John N., La Crosse, Wis., and E. B. Craft, assignors to Western Electric Company, Chicago, Ill. Private-branch intercommunicating telephone system. No. 970,975; Sept. 20; Sp. p. 3903; Gaz. vol. 158; p. 667.
Wallace, Joseph D., Champaign, Ill. Spraying-machine. No. 978,082; Dec. 6; Sp. p. 1416; Gaz. vol. 161; p. 229.
Wallace, Joseph H., New York, N. Y. Pulp machinery. No. 977,147; Nov. 29; Sp. p. 6792; Gaz. vol. 160; p. 1154.
Wallace, Michael W., Moline, Ill. Stalk-cutter and harrow. No. 973,395; Oct. 18; Sp. p. 4153; Gaz. vol. 159; p. 708.
Wallace, Robert J., and G. Cramer, St. Louis, Mo. Photographic color-filter. No. 961,424; June 14; Sp. p. 2423; Gaz. vol. 155; p. 428.
Wallace, Robert S., assignor of one-third to G. G. Fix, Forney, Tex. Pneumatic system for automobiles. No. 975,588; Nov. 15; Sp. p. 3366; Gaz. vol. 160; p. 571.
Wallace Smith and Company. (See Kemp, Horatio S., assignor.)
Wallace, Thomas H. (See Pendleberry, William J., assignor.)
Wallace, William A., Seymour, Tex. Gas-generator. No. 960,745; June 7; Sp. p. 1022; Gaz. vol. 155; p. 172.
Wallace, William A., assignor to J. E. Driggers, Altus, Okla. Gas-generator. No. 975,910; Nov. 15; Sp. p. 4030; Gaz. vol. 160; p. 680.
Wallace, William A., assignor of one-fourth to J. C. Chisum and one-fourth to W. A. Chisum, Altus, Okla. Hot-air furnace. No. 966,064; Aug. 2; Sp. p. 479; Gaz. vol. 157; p. 77.
Wallace, William H. (See Thompson and Wallace.)
Wallace, William H., assignor to Multi Speed Shutter Company, New York, N. Y. Flash-light attachment for photographic cameras. No. 972,419; Oct. 11; Sp. p. 1959; Gaz. vol. 159; p. 344.
Wallace, William M. (See Masson and Wallace.)
Wallau, Herman L., and E. E. Noble, Cleveland, Ohio. Terminal casing. No. 969,816; Sept. 13; Sp. p. 1460; Gaz. vol. 158; p. 252.
Wallbillich, Anthony F., assignor to The Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Binding-post. No. 973,898; Oct. 25; Sp. p. 5223; Gaz. vol. 159; p. 905.
Wallbillich, Joseph. (See Wilson and Wallbillich.)
Wallem, Axel B., Moores, assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Feed-water heater and separator. No. 979,612; Dec. 27; Sp. p. 4744; Gaz. vol. 161; p. 833.
Wallem, Axel B., Moores, assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Valve. No. 979,811; Dec. 27; Sp. p. 5191; Gaz. vol. 161; p. 900.
Wallen, Carl J., assignor to C. Lindbeck and C. Swanson, Jamestown, N. Y. Window-screen. No. 966,065; Aug. 2; Sp. p. 481; Gaz. vol. 157; p. 77.
Wallén, Lars R. L., Norrtelje, assignor to Aktiebolaget Svenska Slipskifvor, Karsta, Sweden. Grinding-wheel and the like. No. 975,089; Nov. 8; Sp. p. 2284; Gaz. vol. 160; p. 373.
Wallenthin, Nils C., Central Falls, and E. C. Smith, Pawtucket, R. I., assignors to The Mossberg Wrench Company, Portland, Me. Press. No. 947,360; Jan. 25; Sp. p. 5237; Gaz. vol. 150; p. 882.
Waller, Anthony E., Pawtucket, R. I. Catch. No. 967,090; Aug. 9; Sp. p. 2707; Gaz. vol. 157; p. 445.
Waller, Carl R., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Elastic-fluid turbine. No. 971,092; Sept. 27; Sp. p. 4163; Gaz. vol. 158; p. 735.
Waller, Charles W. (See Conger and Waller.)
Waller, Charles W., Chicago, Ill. Noise-arrester. No. 968,008; Aug. 23; Sp. p. 4613; Gaz. vol. 157; p. 806.
Waller, John N. (See Manthey, George, assignor.)
Waller, Joseph B. (See Hanes and Waller.)
Waller, Thomas S., and E. B. Barnhill, assignors to Diamond Power Specialty Company, Detroit, Mich. Blower for water-tube boilers. No. 969,316; Sept. 6; Sp. p. 339; Gaz. vol. 158; p. 56.
Waller, Trigg, Highland Park, Ill. System of files. No. 972,302; Oct. 11; Sp. p. 1721; Gaz. vol. 159; p. 302.
Wallin, Boo H., Gottenborg, Sweden. Electrical apparatus for perforating designs. No. 973,899; Oct. 25; Sp. p. 5224; Gaz. vol. 159; p. 906.
Wallin, Charles R., New York, N. Y. Door-lock. No. 947,048; Jan. 18; Sp. p. 4537; Gaz. vol. 150; p. 748.
Wallin, Gustaf E., assignor to Inland Manufacturing Company, Kansas City, Mo. Chute-spring for linotype-machines. No. 970,146; Sept. 13; Sp. p. 2138; Gaz. vol. 158; p. 365.
Wallin, Gustaf E., assignor to Inland Manufacturing Company, Kansas City, Mo. Space-band buffer for linotype-machines. No. 976,957; Nov. 29; Sp. p. 6361; Gaz. vol. 160; p. 1088.
Wallin, Joseph, assignor to Excel Manufacturing Company, Rockford, Ill. Table. No. 947,982; Feb. 1; Sp. p. 427; Gaz. vol. 151; p. 68.
Walling, Frederick J. (See Lowry and Walling.)
Walling, John E., and A. Olson, Portland, Oreg. Oil-burner. No. 955,727; Apr. 19; Sp. p. 4408; Gaz. vol. 153; p. 760.
Walling, John E., and A. Olson, Portland, Oreg. Hydrocarbon-burner. No. 958,947; May 24; Sp. p. 5512; Gaz. vol. 154; p. 926.
Wallis, Henry E., Terre Haute, Ind. Rotary grate for furnaces. No. 945,825; Jan. 11; Sp. p. 1820; Gaz. vol. 150; p. 305.
Wallis, Thomas R., Dyersburg, Tenn. Insect-destroyer. No. 962,869; June 28; Sp. p. 5547; Gaz. vol. 155; p. 970.
Wallmann, Johann G., assignor of one-half to E. Pierce, Oakland, Cal. Electric sealing device. No. 979,905; Dec. 27; Sp. p. 5393; Gaz. vol. 161; p. 932.
Wallner, Joseph S. (See Schwander, Jacob N., assignor.)
Walmsley, Joseph. (See Wright and Walmsley.)
Walpole, Benjamin M., Providence, R. I. Electric cut-out. No. 977,058; Nov. 29; Sp. p. 6578; Gaz. vol. 160; p. 1122.

Alphabetical list of patentees—Continued.

Walpole, Franklin D., McKenzie, Tenn. Well-bucket bail. No. 972,663; Oct. 11; Sp. p. 2517; Gaz. vol. 159; p. 428.
Walpole Rubber Company. (See Gleason, Frederick J., assignor.)
Walpole, William, Oxenden, Ontario, Canada. Sleigh. No. 961,469; June 14; Sp. p. 2532; Gaz. vol. 155; p. 444.
Walrath, Alton A. (See Steininger and Walrath.)
Walrath, Arthur H., Davenport, Iowa. Calorimeter. No. 951,709; Mar. 8; Sp. p. 2508; Gaz. vol. 152; p. 436.
Walrath, Ervin, and F. W. Austin, Gloversville, N. Y. Window-screen. No. 971,422; Sept. 27; Sp. p. 4811; Gaz. vol. 158; p. 842.
Walser, Joseph J., assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype-plate-casting mechanism. No. 945,826; Jan. 11; Sp. p. 1822; Gaz. vol. 150; p. 305.
Walser, Joseph J., assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype-plate-casting machine. No. 945,827; Jan. 11; Sp. p. 1825; Gaz. vol. 150; p. 306.
Walser, Joseph J., assignor to The Goss Printing Press Company, Chicago, Ill. Variable-speed driving mechanism. No. 967,470; Aug. 16; Sp. p. 3487; Gaz. vol. 157; p. 601.
Walsh, Arthur Q., New York, N. Y. Tobacco-pipe. No. 977,910; Dec. 6; Sp. p. 1061; Gaz. vol. 161; p. 169.
Walsh-Baker Corporation. (See Walsh, Thomas P., assignor.)
Walsh, Dennis R., Baltimore, Md. Urinal. No. 955,485; Apr. 19; Sp. p. 3854; Gaz. vol. 153; p. 678.
Walsh, Dennis T., Ansonia, Conn. Back-up brake for vehicles. No. 978,966; Dec. 20; Sp. p. 3340; Gaz. vol. 161; p. 588.
Walsh, Edward F., *et al.* (See Sloderbeck, Martin C., assignor.)
Walsh, George J., Brooklyn, N. Y. Shovel attachment. No. 953,245; Mar. 29; Sp. p. 5738; Gaz. vol. 152; p. 1040.
Walsh, Harry C. H., Chicago, Ill., assignor of one-half to A. A. Kinne, Minneapolis, Minn. Elbow-bending machine. No. 975,184; Nov. 8; Sp. p. 2514; Gaz. vol. 160; p. 406.
Walsh, Harry C. H., Chicago, Ill., assignor of one-half to A. A. Kinne, Minneapolis, Minn. Metal-creasing machine. No. 975,185; Nov. 8; Sp. p. 2516; Gaz. vol. 160; p. 407.
Walsh, James A., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 962,068; June 21; Sp. p. 3815; Gaz. vol. 155; p. 668.
Walsh, James A., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 971,329; Sept. 27; Sp. p. 4642; Gaz. vol. 158; p. 812.
Walsh, James D., St. Louis, Mo. Merry-go-round. No. 953,808; Apr. 5; Sp. p. 254; Gaz. vol. 153; p. 45.
Walsh, James F. (See Comeau and Walsh.)
Walsh, James O., Bayonne, N. J. Non-refillable bottle. No. 968,212; Aug. 23; Sp. p. 5079; Gaz. vol. 157; p. 874.
Walsh, John D., Lockport, N. Y. Expansion-joint. No. 949,811; Feb. 22; Sp. p. 4250; Gaz. vol. 151; p. 766.
Walsh, John D., Lockport, N. Y. Pressure-controlling device for boilers; No. 965,053; July 19; Sp. p. 4457; Gaz. vol. 156; p. 742.
Walsh, John D., assignor to American District Steam Company, Lockport, N. Y. Valve. No. 953,650; Mar. 29; Sp. p. 6605; Gaz. vol. 152; p. 1179.
Walsh, Kenneth E., *et al.* (See Jennings, Milo C., assignor.)
Walsh Manufacturing Company. (See Dingman, Charles H., assignor.)
Walsh, Thomas P., Boston, Mass., assignor to Walsh-Baker Corporation, Portland, Me. Bobbin. No. 957,825; May 10; Sp. p. 2798; Gaz. vol. 154; p. 481.
Walsh, William J., Princeton, Ind. Skirt-gage. No. 976,523; Nov. 22; Sp. p. 5387; Gaz. vol. 160; p. 914.
Walsh, William J., Hamilton, Ontario, Canada. Book. No. 978,244; Dec. 13; Sp. p. 1790; Gaz. vol. 161; p. 314.
Walsh, William J., Jersey City, N. J., assignor of one-half to J. C. Farrow, New York, N. Y. Clothes-line. No. 975,811; Nov. 15; Sp. p. 3833; Gaz. vol. 160; p. 646.
Walston, John T., Springfield, Mo. Automatically-operated gate. No. 979,613; Dec. 27; Sp. p. 4747; Gaz. vol. 161; p. 833.
Walston, Walter O., Asheville, N. C. Clothes-line. No. 976,412; Nov. 22; Sp. p. 5164; Gaz. vol. 160; p. 877.
Walstrom, Axel M., Minneapolis, Minn. Starting device for automobile-engines. No. 958,985; May 24; Sp. p. 5587; Gaz. vol. 154; p. 939.
Walstrom, Axel M., Minneapolis, Minn. Muffler for explosive-engines. No. 969,225; Sept. 6; Sp. p. 176; Gaz. vol. 158; p. 28.
Walstrom, Peter F., Birmingham, Ala. Molding-machine. No. 960,455; June 7; Sp. p. 423; Gaz. vol. 155; p. 72.
Walter A. Wood Mowing and Reaping Machine Co. (See Beckett and Willis, assignors.)
Walter, Bruce, Pittsburg, Pa. Ammonia-condenser. No. 948,835; Feb. 8; Sp. p. 2240; Gaz. vol. 151; p. 380.
Walter, David C. (See Troup, Edward L., assignor.)
Walter, David C., and E. L. Troup, Toledo, Ohio. Pipe-threading machine. No. 948,102; Feb. 1; Sp. p. 671; Gaz. vol. 151; p. 109.
Walter, Earl N., assignor of one-half to H. Zimmerhackel, Denver, Colo. Music-leaf turner. No. 969,317; Sept. 6; Sp. p. 342; Gaz. vol. 158; p. 57.
Walter, Edward C., New York, N. Y., assignor to H. T. Ambrose, Orange, N. J. Calculating attachment for type-writing machines. No. 963,727; July 5; Sp. p. 1533; Gaz. vol. 156; p. 239.
Walter, Edyth C. (See Hamilton, William A., assignor.)
Walter, Fred B., Wabash, Ind. Knockdown-table extension-top. No. 963,190; July 5; Sp. p. 412; Gaz. vol. 156; p. 59.
Walter, Frederick J., Decatur, Ill. Mausoleum structure. No. 977,493; Dec. 6; Sp. p. 144; Gaz. vol. 161; p. 25.
Walter, Harrison B., assignor to Already Box Company, Danville, Ill. Box. No. 947,767; Jan. 25; Sp. p. 6103; Gaz. vol. 150; p. 1017.
Walter, Harrison B., assignor, by mesne assignments, to National Fibre Box Company, Danville, Ill. Form for folding boxes. No. 952,967; Mar. 22; Sp. p. 5123; Gaz. vol. 152; p. 920
Walter, Harrison B., assignor, by mesne assignments, to National Fibre Box Company, Danville, Ill. Assembling and nailing form for boxes. No. 952,968; Mar. 22; Sp. p. 5124; Gaz. vol. 152; p. 920.
Walter, Harrison B., assignor, by mesne assignments, to National Fibre Box Company, Danville, Ill. Box. No. 957,395; May 10; Sp. p. 1940; Gaz. vol. 154; p. 336.
Walter, Harrison B., assignor of one-third to O. J. Gunnell and one-third to J. W. Meltzler, Danville, Ill. Collapsible crate. No. 976,958; Nov. 29; Sp. p. 6363; Gaz. vol. 160; p. 1089.
Walter, Henry C., Wilkinsburg, Pa. Electric heater. No. 973,089; Oct. 18; Sp. p. 3480; Gaz. vol. 159; p. 601.
Walter, Hugo J. (See Ralston and Briggs, assignors.)
Walter, John E., Mountain Home, Idaho. Window-sash-securing means. No. 969,012; Aug. 30; Sp. p. 6752; Gaz. vol. 157; p. 1176.
Walter, John W., Bellefontaine, Ohio. Washing-machine. No. 956,458; Apr. 26; Sp. p. 6008; Gaz. vol. 153; p. 1042.
Walter, John W., Canton, Ohio. Trap-rest. No. 959,659; May 31; Sp. p. 6984; Gaz. vol. 154; p. 1189.
Walter, Martin W., Dayton, Ohio. Pencil-sharpener. No. 959,660; May 31; Sp. p. 6985; Gaz. vol. 154; p. 1189.
Walter, Willard. (See Hayward and Walter.)
Walter, William L., Pontiac, Mich., assignor of one-eighth to I. Small, Washington, D. C. Vent attachment for radiators. No. 958,198; May 17; Sp. p. 3806; Gaz. vol. 154; p. 643.
Walters, Alexander L., Los Angeles, Cal. Adjustable crank-hanger for motor-cycles. No. 950,197; Feb. 22; Sp. p. 5136; Gaz. vol. 151; p. 902.
Walters, Athur B., Abilene, Kans. Means for locking the steering mechanism of motor-vehicles. No. 961,390; June 14; Sp. p. 2359; Gaz. vol. 155; p. 417.
Walters, Charles E., assignor to Michigan Steel Boat Company, Detroit, Mich. Canopy-top for vehicles. No. 963,098; July 5; Sp. p. 168; Gaz. vol. 156; p. 25.
Walters, Frank, Spokane, Wash. Lock. No. 971,423; Sept. 27; Sp. p. 4812; Gaz. vol. 158; p. 842.
Walters, George W., Sharon, Pa. Hand-stamp. No. 963,340; July 5; Sp. p. 756; Gaz. vol. 156; p. 110.
Walters, George W., Findlay, Ohio. Bathing apparatus. No. 969,013; Aug. 30; Sp. p. 6753; Gaz. vol. 157; p. 1176.
Walters, James M., Los Angeles, Cal. Display-stand. No. 962,277; June 21; Sp. p. 4281; Gaz. vol. 155; p. 740.
Walters, John E., Niles, Ohio. Minnow. No. 969,014; Aug. 30; Sp. p. 6754; Gaz. vol. 157; p. 1177.
Walters, Julius W., Glens Falls, N. Y. Carbureter. No. 976,322; Nov. 22; Sp. p. 4953; Gaz. vol. 160; p. 844.
Walters, Julius W., Glens Falls, assignor to Mechanical Devices Company, Albany, N. Y. Propeller-shaft hanger and bearing. No. 947,265; Jan. 25; Sp. p. 4989; Gaz. vol. 150; p. 847.
Walters, Julius W., Glens Falls, assignor to Mechanical Devices Company, Albany, N. Y. Flexible shaft-coupling. No. 956,912; May 3; Sp. p. 899; Gaz. vol. 154; p. 142.
Walters, Robert L., Lavonia, Ga. Quick-adjusting wrench. No. 959,436; May 24; Sp. p. 6488; Gaz. vol. 154; p. 1087.
Walters, Warren E., and H. S. Fitzgerrell, Los Angeles, Cal. Advertising device. No. 962,069; June 21; Sp. p. 3816; Gaz. vol. 155; p. 669.
Walters, William H., St. Louis, Mo. Curtain-rod. No. 961,352; June 14; Sp. p. 2296; Gaz. vol. 155; p. 405.
Walters, Willie H., Salt Lake City, Utah. Electric-light socket. No. 970,581; Sept. 20; Sp. p. 3064; Gaz. vol. 158; p. 534.
Walthall, Anderson M. (See Levinson, Herman M., assignor.)
Walther, Anna, Port Townsend, Wash. Dish-washer. No. 958,948; May 24; Sp. p. 5514; Gaz. vol. 154; p. 926.
Walther, Gustav. (See Salzer and Walther.)
Walther, Herman, Davenport, Iowa. Actuating means for blowers. No. 970,448; Sept. 13; Sp. p. 2767; Gaz. vol. 158; p. 465.
Walther, Mathias J., Cleveland, Ohio. Vending-machine. No. 961,051; June 7; Sp. p. 1630; Gaz. vol. 155; p. 273.
Walther, Mathias J., Cleveland, Ohio. Check-controlled apparatus. No. 965,547; July 26; Sp. p. 5528; Gaz. vol. 156; p. 941.

Alphabetical list of patentees—Continued.

Walther, Robert, Pittsburg, Pa. Trick drinking-mug. No. 978,681; Dec. 13; Sp. p. 2739; Gaz. vol. 161; p. 466.
Walther, William W., Booneville, Mo. Concrete post. No. 967,691; Aug. 16; Sp. p. 3933; Gaz. vol. 157; p. 675.
Waltman, John A., Los Angeles, Cal. Rotary multiple-cylinder internal-combustion engine. No. 975,485; Nov. 15; Sp. p. 3129; Gaz. vol. 160; p. 535.
Waltman, John A., Los Angeles, Cal. Rotary multiple-cylinder steam-engine. No. 975,486; Nov. 15; Sp. p. 3134; Gaz. vol. 160; p. 535.
Walton, Arthur G. (See Hartwell, Leslie L., assignor.)
Walton, Edgar M., Kansas City, Mo. Shingle-mold. No. 974,002; Oct. 25; Sp. p. 5432; Gaz. vol. 159; p. 941.
Walton, Edward, Penrith, assignor to Walton Patent Barrel Company, Inc., Richmond, Va. Slat-weaving machine. No. 968,099; Aug. 23; Sp. p. 4812; Gaz. vol. 157; p. 836.
Walton, Frederick, London, England. Road-vehicle suspension. No. 959,661; May 31; Sp. p. 6986; Gaz. vol. 154; p. 1189.
Walton, Frederick, London, England. Road-vehicle suspension arrangement. No. 964,589; July 19; Sp. p. 3417; Gaz. vol. 156; p. 584.
Walton, George P., Ingleside, Miss. Apparatus for delivering and receiving mail. No. 949,812; Feb. 22; Sp. p. 4252; Gaz. vol. 151; p. 767.
Walton, Ike, *et al.* (See Schrader, Moritz, assignor.)
Walton, Jerrold F. (See Luedders, Arthur D., assignor.)
Walton, Luther, Norristown, Pa. Closure for bottles. No. 979,233; Dec. 20; Sp. p. 3953; Gaz. vol. 161; p. 682.
Walton, Orrin E., assignor of one-half to U. G. Summers, West Union, W. Va. Folding umbrella. No. 962,539; June 28; Sp. p. 4861; Gaz. vol. 155; p. 855.
Walton Patent Barrel Company. (See Walton, Edward, assignor.)
Walton, Thomas J., Springfield, Tenn. Hollow metal furnace-grate. No. 964,344; July 12; Sp. p. 2854; Gaz. vol. 156; p. 470.
Walton, William, Jr., New York, N. Y. Washing-machine attachment for stationary washtubs. No. 946,175; Jan. 11; Sp. p. 2572; Gaz. vol. 150; p. 427.
Walton, William B., and N. H. Keim, Eveleth, Minn. Rocking crib. No. 956,913; May 3; Sp. p. 900; Gaz. vol. 154; p. 142.
Walton, William D., assignor of one-half to R. B. Shoaf, Covington, Tenn. Harrow. No. 959,276; May 24; Sp. p. 6193; Gaz. vol. 154; p. 1035.
Walton, William W., Santifee, W. Va. Brake attachment for vehicles. No. 964,345; July 12; Sp. p. 2855; Gaz. vol. 156; p. 471.
Walts, Fred B., Los Angeles, Cal. Lock. No. 953,874; Apr. 5; Sp. p. 381; Gaz. vol. 153; p. 69.
Walz, Charles J., New Haven, Conn., assignor to West Disinfecting Company. Disinfectant-holder. No. 957,449; May 10; Sp. p. 2045; Gaz. vol. 154; p. 355.
Walzel, Gregor, New York, N. Y. Spark-plug. No. 962,604; June 28; Sp. p. 5014; Gaz. vol. 155; p. 877.
Wamhoff, George, Jr., assignor, by mesne assignments, to M. S. Wamhoff, Pittsburg, Pa. Lamp-glass. No. 973,729; Oct. 25; Sp. p. 4870; Gaz. vol. 159; p. 846.
Wamhoff, Ma-Belle S. (See Wamhoff, George, Jr., assignor.)
Wanamaker, Charles B., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Collapsible xylophone-stand. No. 967,471; Aug. 16; Sp. p. 3496; Gaz. vol. 157; p. 602.
Wandel Manufacturing Company. (See Wandel, Otto, assignor.)
Wandel, Otto, Walpole, Mass., assignor to Wandel Manufacturing Company. Paper-pulp screen. No. 955,025; Apr. 12; Sp. p. 2904; Gaz. vol. 153; p. 491.
Wander, Joseph, Westbrook, Conn. Metal ornament. No. 963,341; July 5; Sp. p. 757; Gaz. vol. 156; p. 110.
Wanderer Werke vorm. Winklhofer & Jaenicke A. G. (See Buschmann, Theodor E., assignor.)
Wandersee, Bernhard A., Montrose, Minn. Harrow. No. 973,730; Oct. 25; Sp. p. 4871; Gaz. vol. 159; p. 846.
Wankel, Mary J. (See Wankel, William B., assignor.)
Wankel, William B., assignor to M. J. Wankel, Brooklyn, N. Y. Tool-handle. No. 953,364; Mar. 29; Sp. p. 6003; Gaz. vol. 152; p. 1079.
Wannenwetsch, Andrew T., Buffalo, N. Y. Bottle and stopper. No. 952,287; Mar. 15; Sp. p. 3691; Gaz. vol. 152; p. 660.
Wannenwetsch, Charles H. A., assignor of one-half to A. C. Lembke, Buffalo, N. Y. Rendering apparatus. No. 973,324; Oct. 18; Sp. p. 3993; Gaz. vol. 159; p. 683.
Wanner, Albert Jr., *et al.* (See Wilkinson, John A., assignor.)
Wanner, Albert, Jr., Hoboken, N. J. Chair. No. 950,974; Mar. 1; Sp. p. 1070; Gaz. vol. 152; p. 171.
Wanner, Albert, Jr., Hoboken, N. J. Chair. No. 951,035; Mar. 1; Sp. p. 1166; Gaz. vol. 152; p. 191.
Wanner, Edwin P., *et al.* (See Wilkinson, John A., assignor.)
Wanner, Edwin P., New York, N. Y. Manufacture of chair-seats. No. 953,246; Mar. 29; Sp. p. 5739; Gaz. vol. 152; p. 1041.
Wanta, Ignac, Milwaukee, Wis. Roller-skate. No. 978,523; Dec. 13; Sp. p. 2390; Gaz. vol. 161; p. 412.
Wappler, Edwin. (See Martin, Margaret A., assignor.)
Wappler, Reinhold H., assignor to American Cystoscope Makers, New York, N. Y. Electrical coupling and switch. No. 975,090; Nov. 8; Sp. p. 2285; Gaz. vol. 160; p. 373.
Warburton, John, and A. Gardiner, Paterson, N. J. Loom. No. 979,114; Dec. 20; Sp. p. 3694; Gaz. vol. 161; p. 640.
Ward, Albert, assignor to McClary Manufacturing Company, London, Canada. Side-wall register. No. 960,456; June 7; Sp. p. 425; Gaz. vol. 155; p. 72.
Ward, Albert P., Calistoga, Cal. Brooder. No. 945,483; Jan. 4; Sp. p. 1018; Gaz. vol. 150; p. 159.
Ward, Almon G., assignor to The Day Ward Company, Warren, Ohio. Molding apparatus. No. 951,861; Mar. 15; Sp. p. 2849; Gaz. vol. 152; p. 519.
Ward, Alvin, Jackson, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Forming twist-drills. No. 950,645; Mar. 1; Sp. p. 390; Gaz. vol. 152; p. 63.
Ward, Alvin, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Means for forming twist-drills. No. 950,646; Mar. 1; Sp. p. 391; Gaz. vol. 152; p. 63.
Ward, Bennie A. D. (See Kline and Ward.)
Ward, Charles A., Pittsburg, Pa. Transmission-gearing. No. 963,839; July 12; Sp. p. 1827; Gaz. vol. 156; p. 300.
Ward, Charles F., Whiteville, N. C. Seed-planter. No. 946,746; Jan. 18; Sp. p. 3868; Gaz. vol. 150; p. 646.
Ward, Charles G., assignor to The Ward Safety Razor Company, Chicago, Ill. Safety-razor. No. 946,949; Jan. 18; Sp. p. 4352; Gaz. vol. 150; p. 715.
Ward, Charles G., Chicago, Ill., assignor, by mesne assignments, to The Ward Safety Razor Company, Chicago, Ill., and Portland, Me. Safety-razor-blade-stropping device. No. 955,298; Apr. 19; Sp. p. 3458; Gaz. vol. 153; p. 614.
Ward, David R., Struthers, Ohio. Upsetting-machine. No. 959,184; May 24; Sp. p. 6007; Gaz. vol. 154; p. 1004.
Ward, Dell. (See Duguid, Robert C., assignor.)
Ward Equipment Company. (See Hopkins, William A., assignor.)
Ward Equipment Company. (See Ward, John E., assignor.)
Ward, Eugene J., New York, N. Y. Corn and bunion plaster. No. 958,199; May 17; Sp. p. 3808; Gaz. vol. 154; p. 644.
Ward, Frank, and J. C. Hollingsworth, Dallas, Tex. Car-door. No. 970,147; Sept. 13; Sp. p. 2140; Gaz. vol. 158; p. 365.
Ward, Frederick A., assignor to Gear Grinding Machine Company, Detroit, Mich. Grinder. No. 965,773; July 26; Sp. p. 5999; Gaz. vol. 156; p. 1019.
Ward, Frederick A., assignor to Gear Grinding Machine Company, Detroit, Mich. Gearing. No. 965,774; July 26; Sp. p. 6000; Gaz. vol. 156; p. 1019.
Ward, Frederick G., Pittsburg, Pa. Tread for pneumatic tires. No. 954,232; Apr. 5; Sp. p. 1151; Gaz. vol. 153; p. 191.
Ward, Frederick H., *et al.* (See Smith, George A., assignor.)
Ward, George B. (See Canaday, William R., assignor.)
Ward, Grant W. (See Fletcher, Clinton, assignor.)
Ward, Henry C., Newark, N. J. Stud. No. 976,016; Nov. 15; Sp. p. 4227; Gaz. vol. 160; p. 717.
Ward, James A., Jr., Fort Smith, Ark. Article of furniture. No. 957,826; May 10; Sp. p. 2800; Gaz. vol. 154; p. 481.
Ward, James N., Havelock, Nebr. Egg-beater. No. 961,272; June 14; Sp. p. 2099; Gaz. vol. 155; p. 376.
Ward, John A., Spokane, Wash. Electric switch. No. 979,050; Dec. 20; Sp. p. 3527; Gaz. vol. 161; p. 617.
Ward, John E. (See Dennis, Willard W., assignor.)
Ward, John E., New York, N. Y. Retaining-spring for gaskets. No. 951,584; Mar. 8; Sp. p. 2276; Gaz. vol. 152; p. 395.
Ward, John E., assignor to Ward Equipment Company, New York, N. Y. Pipe-coupling. No. 945,298; Jan. 4; Sp. p. 639; Gaz. vol. 150; p. 99.
Ward, John E., assignor to Ward Equipment Company, New York, N. Y. Car. No. 971,579; Oct. 4; Sp. p. 146; Gaz. vol. 159; p. 27.
Ward, John E., assignor to Ward Equipment Company, New York, N. Y. Terminal-plug receptacle. No. 972,956; Oct. 18; Sp. p. 3199; Gaz. vol. 159; p. 556.
Ward, John S., Chicago, Ill. Fluid-actuated motor. No. 977,574; Dec. 6; Sp. p. 363; Gaz. vol. 161; p. 53.
Ward, John S., Chicago, Ill. Driving mechanism for pumps. No. 978,682; Dec. 13; Sp. p. 2740; Gaz. vol. 161; p. 467.
Ward, Joseph E., Longbeach, Cal. Apparatus for saturating the ground with oil. No. 962,728; June 28; Sp. p. 5270; Gaz. vol. 155; p. 919.
Ward, Lloyd W., assignor of one-third to C. E. White and one-third to R. Lang, Buckhannon, W. Va. Invalid-bed. No. 961,273; June 14; Sp. p. 2101; Gaz. vol. 155; p. 377.
Ward, Marie L. B., London, England. Finger-protector. No. 971,093; Sept. 27; Sp. p. 4167; Gaz. vol. 158; p. 735.
Ward, Mary E., Hillcrest, Mo. Picnic lunch-box. No. 967,865; Aug. 16; Sp. p. 4288; Gaz. vol. 157; p. 734.
Ward, Orlo P., assignor to The New Haven Upholstering Co., New Haven, Conn. Hammock-support. No. 962,181; June 21; Sp. p. 4083; Gaz. vol. 155; p. 709.
Ward, Paul S. (See Day and Ward.)

Alphabetical list of patentees—Continued.

Ward, Paul S., Covington, Ky., assignor to Lynn-Superior Company, Cincinnati, Ohio. Filter and controlling-valve therefor. No. 956,914; May 3; Sp. p. 902; Gaz. vol. 154; p. 143.
Ward, Paul S., Covington, Ky., assignor to The Lynn Superior Company, Cincinnati, Ohio. Safety device. No. 969,318; Sept. 6; Sp. p. 346; Gaz. vol. 158; p. 57.
Ward Pump Company. (See Johnson, Oscar W., assignor.)
Ward, Robert B., Canton, Miss. Penholder. No. 948,910; Feb. 8; Sp. p. 2379; Gaz. vol. 151; p. 405.
Ward Safety Razor Company, The. (See Ward, Charles G., assignor.)
Ward, Samuel M., Jr., Washington, D. C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller-switch for electric motors. No. 961,185; June 14; Sp. p. 1907; Gaz. vol. 155; p. 346.
Ward, Shirley C., *et al.* (See Lautzenhiser and Chandler, assignors.)
Ward-Stilson Co., The. (See Post, Charles B., assignor.)
Ward, Thomas J., Mount Iron, Minn. Forge. No. 951,892; Mar. 15; Sp. p. 2922; Gaz. vol. 152; p. 529.
Ward, Timothy F., Fayetteville, N. C. Saw-set. No. 947,287; Jan. 25; Sp. p. 5060; Gaz. vol. 150; p. 856.
Ward, Warren H., Southport, Ind. Adjustable caster for stoves and the like. No. 952,694; Mar. 22; Sp. p. 4556; Gaz. vol. 152; p. 828.
Ward, William L., Saguache, Colo. Barrel. No. 972,664; Oct. 11; Sp. p. 2518; Gaz. vol. 159; p. 428.
Ward, William S., Kennewick, Wash. Rat-trap. No. 977,240; Nov. 29; Sp. p. 6986; Gaz. vol. 160; p. 1187.
Ward, William S., assignor to H. D. Smith and Company, Plantsville, Conn. Butcher's cleaver. No. 953,725; Apr. 5; Sp. p. 87; Gaz. vol. 153; p. 18.
Wardell, Henry R., Philadelphia, Pa. Bituminous structural material. No. 958,450; May 17; Sp. p. 4469; Gaz. vol. 154; p. 731.
Wardell, Henry R., New York, N. Y., assignor to H. W. Johns-Manville Company. Machine for making roofing. No. 972,957; Oct. 18; Sp. p. 3200; Gaz. vol. 159; p. 556.
Warden, Alva F., Canonsburg, Pa., assignor to Standard Tin Plate Company. Plate-catcher. No. 947,361; Jan. 25; Sp. p. 5243; Gaz. vol. 150; p. 883.
Warden, Henry, Fredericksburg, Va. Gate-opening device. No. 978,245; Dec. 13; Sp. p. 1792; Gaz. vol. 161; p. 314.
Warden, William F., Akron, Ohio. Ventilator. (Reissue.) No. 13,137; July 26; Sp. p. 6161; Gaz. vol. 156; p. 1045.
Wardle, William W. (See Keith and Wardle.)
Wardwell, Olin N. (See White and Wardwell.)
Wardwell, Horace W., Swampscott, Mass. Filling device. No. 945,879; Jan. 11; Sp. p. 1947; Gaz. vol. 150; p. 324.
Wardwell, Simon W. (See Parks and Wardwell.)
Wardwell, Simon W., Providence, R. I. Tension device. No. 945,880; Jan. 11; Sp. p. 1948; Gaz. vol. 150; p. 324.
Wardwell, Simon W., Providence, R. I. Winding-machine. No. 946,831; Jan. 18; Sp. p. 4082; Gaz. vol. 150; p. 676.
Wardwell, Simon W., Providence, R. I. Tension-controlling device. No. 949,407; Feb. 15; Sp. p. 3434; Gaz. vol. 151; p. 599.
Wardwell, Simon W., and C. Ryden, Providence, R. I. Unrolling device. No. 956,457; Apr. 26; Sp. p. 6004; Gaz. vol. 153; p. 1042.
Ware, Charles I., assignor of one-half to F. E. Maxfield, Holyoke, Mass. Roll-bar for paper-pulp engines. No. 958,708; May 17; Sp. p. 4961; Gaz. vol. 154; p. 815.
Ware, Charles S. (See Griffin, Hubert C., assignor.)
Ware, James F., assignor of one-half to A. A. Bowhay, Denver, Colo. Variable-time-operating oil-controlled valve. No. 961,274; June 14; Sp. p. 2105; Gaz. vol. 155; p. 377.
Ware, James F., assignor of one-half to A. A. Bowhay, Denver, Colo. Automatically-operating variable-time-exposure photoprinting-cabinet. No. 966,498; Aug. 9; Sp. p. 1400; Gaz. vol. 157; p. 245.
Ware, James F., assignor of one-half to A. A. Bowhay, Denver, Colo. Resiliently-cushioned printing-frame for photoprinting-cabinets. No. 966,499; Aug. 9; Sp. p. 1407; Gaz. vol. 157; p. 246.
Ware Machine & Loom Company. (See Côté, Henry, assignor.)
Ware Machine & Loom Company. (See Côté and Snow, assignors.)
Ware Machine & Loom Company. (See Snow, Renceler C., assignor.)
Ware, Richard M. (See May, Robert B., assignor.)
Ware, Rodney B., New York, N. Y. Caliper-square. No. 945,144; Jan. 4; Sp. p. 273; Gaz. vol. 150; p. 48.
Ware, Walter F., Philadelphia, Pa. Baby-comforter. No. 954,066; Apr. 5; Sp. p. 770; Gaz. vol. 153; p. 134.
Wareham, James L. (See Simons, William F., assignor.)
Warfield, Earl P., assignor of one-third to A. L. Newmyer and one-half to M. S. Snyder, Washington, D. C. Box-fastener. No. 956,747; May 3; Sp. p. 526; Gaz. vol. 154; p. 85.
Warfield, John G., assignor of one-fourth to C. R. Harris, Los Angeles, Cal. Educational appliance. No. 967,591; Aug. 16; Sp. p. 3745; Gaz. vol. 157; p. 643.
Warfield, John G., assignor of one-fourth to C. R. Harris, Los Angeles, Cal. Educational device. No. 969,429; Sept. 6; Sp. p. 592; Gaz. vol. 158; p. 94.
Waring, Arthur B., New York, N. Y. Hat-flanging machine. No. 971,094; Sept. 27; Sp. p. 4168; Gaz. vol. 158; p. 735.
Waring, Edward M., New York, N. Y. Type-writer. No. 953,875; Apr. 5; Sp. p. 382; Gaz. vol. 153; p. 69.
Waring, Frederick E., Worcester, Mass. Desk. No. 973,325; Oct. 18; Sp. p. 3996; Gaz. vol. 159; p. 684.
Waring, Samuel F., assignor of one-half to J. N. Lutz, Brooklyn, N. Y. Base-ball mitt. No. 950,083; Feb. 22; Sp. p. 4905; Gaz. vol. 151; p. 862.
Wark, Hermann, New York, N. Y. Match-receptacle. No. 948,803; Feb. 8; Sp. p. 2178; Gaz. vol. 151; p. 370.
Warman, William A. (See Keller and Warman.)
Warmholtz, Charles, Chicago, Ill. Drill-brace. No. 959,824; May 31; Sp. p. 7339; Gaz. vol. 154; p. 1244.
Warming, Niels G. (See Edmunds and Warming.)
Warne, Albert T., Leytonstone, assignor to Spicer Brothers Limited, London, England. Fitting for loose-leaf books. No. 970,582; Sept. 20; Sp. p. 3065; Gaz. vol. 158; p. 534.
Warne, Frederick C., and A. B. McLean, assignors to Roderick Lean Manufacturing Company, Mansfield, Ohio. Harrow. No. 958,200; May 17; Sp. p. 3809; Gaz. vol. 154; p. 644.
Warne, Wright & Rowland Limited. (See Malton, Frank, assignor.)
Warner, Adna D., Mishawaka, Ind. Making rubber fabric. No. 945,352; Jan. 4; Sp. p. 757; Gaz. vol. 150; p. 116.
Warner, Adna D., Mishawaka, Ind. Rubber tubing for tires, &c. No. 945,353; Jan. 4; Sp. p. 759; Gaz. vol. 150; p. 116.
Warner, Adna D., Mishawaka, Ind. Rubber sole for boots and shoes. No. 953,077; Mar. 29; Sp. p. 5355; Gaz. vol. 152; p. 985.
Warner, Albert C., Peoria, Ill. Grinding-machine. No. 963,964; July 12; Sp. p. 2079; Gaz. vol. 156; p. 340.
Warner, Albert C., assignor to Peoria Lawn Mower Grinder Co., Peoria, Ill. Grinding-machine. No. 956,237; Apr. 26; Sp. p. 5542; Gaz. vol. 153; p. 967.
Warner, Alonzo A., assignor to Landers, Frary and Clark, New Britain, Conn. Vapor-stove. No. 968,435; Aug. 23; Sp. p. 5523; Gaz. vol. 157; p. 953.
Warner, Alonzo A., assignor to Landers, Frary and Clark, New Britain, Conn. Razor. No. 969,226; Sept. 6; Sp. p. 178; Gaz. vol. 158; p. 29.
Warner, Alonzo C., Stockton, Cal. Lawn-trimmer. No. 953,876; Apr. 5; Sp. p. 385; Gaz. vol. 153; p. 70.
Warner, Charles A., New York, N. Y. Sofa-bedstead. No. 977,350; Nov. 29; Sp. p. 7201; Gaz. vol. 160; p. 1224.
Warner, Charles E., Batavia, N. Y. Feed-regulator. No. 977,148; Nov. 29; Sp. p. 6793; Gaz. vol. 160; p. 1154.
Warner, Clarence F., *et al.* (See Russell, Robert C., assignor.)
Warner, Frank, Butler, Ohio. Pontil-head. No. 953,247; Mar. 29; Sp. p. 5741; Gaz. vol. 152; p. 1041.
Warner, Frederick E., Bridgeport, Conn. Tumbling-barrel. No. 978,524; Dec. 13; Sp. p. 2391; Gaz. vol. 161; p. 412.
Warner, Fredrick J., Memphis, Tenn., assignor to Perfect Screen Hanger Company. Window-screen bracket. No. 946,526; Jan. 11; Sp. p. 3423; Gaz. vol. 150; p. 548.
Warner, Henry H., assignor to Safety Investment Company, Tacoma, Wash. Wrench. No. 950,584; Mar. 1; Sp. p. 253; Gaz. vol. 152; p. 42.
Warner, Henry H., assignor to Safety Investment Company, Tacoma, Wash. Wrench. No. 950,585; Mar. 1; Sp. p. 254; Gaz. vol. 152; p. 42.
Warner, Henry W. (See Norton, Leonard M., assignor.)
Warner, John A. and W. A., Bronson, Mich. Fence-post. No. 976,323; Nov. 22; Sp. p. 4956; Gaz. vol. 160; p. 845.
Warner, John H., *et al.* (See Buchanan, John H., assignor.)
Warner, Lewis E., Kellogg, Idaho. Revoluble sizing-screen. No. 973,149; Oct. 18; Sp. p. 3613; Gaz. vol. 159; p. 623.
Warner, Lewis E., assignor of one-fourth to E. Hearing, one-fourth to S. A. Easton, and one-fourth to G. Caetani, Kellogg, Idaho. Revoluble sizing-screen. No. 946,476; Jan. 11; Sp. p. 3307; Gaz. vol. 150; p. 531.
Warner & Swasey Co., The. (See Swasey, Ambrose, assignor.)
Warner, Thomas S., assignor to P. P. Mast and Company, Springfield, Ohio. Lister-cultivator. No. 948,030; Feb. 1; Sp. p. 519; Gaz. vol. 151; p. 84.
Warner, William A. (See Warner, John A. and W. A.)
Warner, William E., Houston, Tex. Floor surfacer, cleaner, and polisher. No. 970,583; Sept. 20; Sp. p. 3067; Gaz. vol. 158; p. 534.
Warner, William E., Houston, Tex. Floor-surfacing machine. No. 979,614; Dec. 27; Sp. p. 4749; Gaz. vol. 161; p. 834.
Warnick, Harry T., *et al.* (See Morrison, Augustus H., assignor.)
Warnock, James, Walpole, and G. C. Lewis, Kissina, Saskatchewan, Canada. Car-door. No. 945,253; Jan. 4; Sp. p. 517; Gaz. vol. 150; p. 85.
Warnock, Philip G., Everett, Wash. Cash-register system. No. 955,621; Apr. 19; Sp. p. 4159; Gaz. vol. 153; p. 724.
Warren, Alva S., Batavia, N. Y. Metallic railway-tie. No. 961,052; June 7; Sp. p. 1632; Gaz. vol. 155; p. 273.
Warren, Charles, Rockford, Ill. Pumper-pedal action for interior player-pianos. No. 963,262; July 5; Sp. p. 606; Gaz. vol. 156; p. 84.

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Warren, Charles V., Cambridge, Mass. Lubricator for elevator-guides. No. 974,616; Nov. 1; Sp. p. 1226; Gaz. vol. 160; p. 189.
Warren, David, Chelsea, Mass. Coat. No. 956,238; Apr. 26; Sp. p. 5547; Gaz. vol. 153; p. 967.
Warren, Frederic A., Canon City, Colo. Centrifugal oiling-bearing. No. 962,182; June 21; Sp. p. 4084; Gaz. vol. 155; p. 709.
Warren, George C. (See Mason, Carl T., assignor.)
Warren, Governor D., Denver, Colo. Compressor. No. 957,129; May 3; Sp. p. 1339; Gaz. vol. 154; p. 214.
Warren, Governor D., Denver, Colo. Means for cooling cylinders. No. 960,457; June 7; Sp. p. 426; Gaz. vol. 155; p. 73.
Warren, Harry B., *et al.* (See Gant, Kenneth W., assignor.)
Warren, Hiram C., Clearfield, Pa. Cracker-jar. No. 961,470; June 14; Sp. p. 2533; Gaz. vol. 155; p. 444.
Warren, John D., assignor of one-half to Eugene Munsell & Co., New York, N. Y. Mantle-support. No. 953,161; Mar. 29; Sp. p. 5556; Gaz. vol. 152; p. 1013.
Warren, John D., assignor of one-half to Eugene Munsell & Co., New York, N. Y. Chimney. No. 953,499; Mar. 29; Sp. p. 6290; Gaz. vol. 152; p. 1127.
Warren, John J., Brownville, N. Y. Winding-machine. No. 978,967; Dec. 20; Sp. p. 3345; Gaz. vol. 161; p. 588.
Warren, John R., and T. Barnard, Toronto, Ontario, Canada, assignors to Eastman Machine Company Limited, Toronto, Canada. Cloth-cutting machine. No. 967,472; Aug. 16; Sp. p. 3500; Gaz. vol. 157; p. 602.
Warren, Marion, Rochester, N. Y. Valve. No. 960,605; June 7; Sp. p. 743; Gaz. vol. 155; p. 123.
Warren, Peter R., Lowell, Mass. Display-holder. No. 964,826; July 19; Sp. p. 3994; Gaz. vol. 156; p. 665.
Warren, Peter R., Lowell, Mass. Box. No. 975,911; Nov. 15; Sp. p. 4031; Gaz. vol. 160; p. 680.
Warren, Peter R., Lowell, Mass. Box. No. 979,812; Dec. 27; Sp. p. 5195; Gaz. vol. 161; p. 901.
Warren, Samuel E., Eureka, Cal. Fruit-press. No. 950,523; Mar. 1; Sp. p. 135; Gaz. vol. 152; p. 22.
Warren, Sherod, High Springs, Fla. Buckle. No. 965,425; July 26; Sp. p. 5239; Gaz. vol. 156; p. 897.
Warren Steam Pump Company. (See Gage, Burt O., assignor.)
Warren, Thomas, St. Louis, Mo. Current-motor and towing apparatus. No. 968,904; Aug. 30; Sp. p. 6545; Gaz. vol. 157; p. 1140.
Warren Webster & Company. (See Braemer, William G. R., assignor.)
Warren Webster & Company. (See Comfort, Edward W., assignor.)
Warren, William R., New York, N. Y. Apparatus for granulating blast-furnace slag. No. 974,003; Oct. 25; Sp. p. 5433; Gaz. vol. 159; p. 941.
Warrenfeltz, Edward M., Lydia, Md. Rotary rake. No. 949,104; Feb. 15; Sp. p. 2785; Gaz. vol. 151; p. 494.
Warrenfeltz, Edward M., Funkstown, Md. Rotary manure-loader. No. 969,227; Sept. 6; Sp. p. 181; Gaz. vol. 158; p. 30.
Warrenfeltz, Edward M., Funkstown, Md. Rotary excavator. No. 973,326; Oct. 18; Sp. p. 3998; Gaz. vol. 159; p. 684.
Warrick, Fred O., Nuremberg, Germany. Charging device for pneumatic tires. No. 966,874; Aug. 9; Sp. p. 2264; Gaz. vol. 157; p. 371.
Warrick, Joseph S., Kansas City, Mo. Collar for concrete railway-ties. No. 979,615; Dec. 27; Sp. p. 4751; Gaz. vol. 161; p. 834.
Warriner, Percy H. (See Parmeter, Addison J., assignor.)
Warring, James C., assignor to G. V. Krichbaum, Ashland, Ohio. Tire-protector. No. 945,649; Jan. 4; Sp. p. 1377; Gaz. vol. 150; p. 215.
Warrington, Walter C., *et al.* (See Foster, Jackson W., assignor.)
Warrington, William H., Chicago, Ill. Cap for sheet-piling. No. 960,746; June 7; Sp. p. 1023; Gaz. vol. 155; p. 173.
Warshaw, Boris, New York, N. Y. Ironing-table. No. 951,263; Mar. 8; Sp. p. 1611; Gaz. vol. 152; p. 288.
Warsop, Edward W., Los Angeles, Cal. Drawer and construction for show and stock cases. No. 968,719; Aug. 30; Sp. p. 6168; Gaz. vol. 157; p. 1078.
Wartchow, Albert H., Deering, N. D. Traction attachment for implements. No. 946,627; Jan. 18; Sp. p. 3617; Gaz. vol. 150; p. 608.
Wartenberg, Charles W. L., assignor to Saginaw Fire Escape Company, Saginaw, Mich. Fire-escape. No. 945,065; Jan. 4; Sp. p. 124; Gaz. vol. 150; p. 21.
Warters, Clifton R., assignor of one-half to E. Stevens, Washington, D. C. Dispensing apparatus. No. 963,342; July 5; Sp. p. 759; Gaz. vol. 156; p. 110.
Warth, Nathaniel G., Columbus, Ohio. Telephone-repeater. No. 960,458; June 7; Sp. p. 428; Gaz. vol. 155; p. 73.
Warth, Nathaniel G., Columbus, Ohio. Telephone repeater system. No. 978,083; Dec. 6; Sp. p. 1418; Gaz. vol. 161; p. 229.
Warwick, George T., Springfield, Mass. Screw-machine. No. 959,825; May 31; Sp. p. 7340; Gaz. vol. 154; p. 1244.
Warwick, George T., Springfield, Mass. Screw-head shaping and slotting device. No. 976,758; Nov. 22; Sp. p. 5887; Gaz. vol. 160; p. 994.
Warwood Tool Company. (See Moore, John A., assignor.)
Wasem, Harry R., Fort Dodge, Iowa. Sand-distributer for locomotives. No. 954,233; Apr. 5; Sp. p. 1152; Gaz. vol. 153; p. 192.
Washburn, Charles A., Detroit, Mich. Window-operating mechanism. No. 949,813; Feb. 22; Sp. p. 4255; Gaz. vol. 151; p. 767.
Washburn, Charles F., New London, Conn. Storage battery. No. 962,870; June 28; Sp. p. 5548; Gaz. vol. 155; p. 970.
Washburn, David S., Meriden, Conn. Vegetable-grater. No. 970,864; Sept. 20; Sp. p. 3704; Gaz. vol. 158; p. 633.
Washburn, Edwin C., Minneapolis, Minn. Car-coupling. No. 946,176; Jan. 11; Sp. p. 2573; Gaz. vol. 150; p. 427.
Washburn, Edwin C., Minneapolis, Minn. Riser-lining for molding devices. No. 969,015; Aug. 30; Sp. p. 6755; Gaz. vol. 157; p. 1177.
Washburn, Frank L., and G. E. Lawrence, Los Angeles, Cal. Electrical connector. No. 959,977; May 31; Sp. p. 7697; Gaz. vol. 154; p. 1297.
Washburn, John S., Albany, N. Y. Automatic brake-adjuster. No. 974,004; Oct. 25; Sp. p. 5434; Gaz. vol. 159; p. 942.
Washburn, John S., Albany, N. Y. Automatic brake-adjuster. No. 974,005; Oct. 25; Sp. p. 5435; Gaz. vol. 159; p. 942.
Washburn, Reginald, assignor to The Wire Goods Company, Worcester, Mass. Egg-beater. No. 948,750; Feb. 8; Sp. p. 2058; Gaz. vol. 151; p. 352.
Washburn, Theodore W., assignor to G. Waite, Baldwinsville, Mass. Child's chair. No. 968,297; Aug. 23; Sp. p. 5255; Gaz. vol. 157; p. 904.
Washburne, Ajay, Fruitvale, Cal. Mining apparatus. No. 968,100; Aug. 23; Sp. p. 4820; Gaz. vol. 157; p. 837.
Washburne, Charles H., Rochester, assignor of one-half to H. B. Oakman, New York, N. Y. Vehicle. No. 976,413; Nov. 22; Sp. p. 5165; Gaz. vol. 160; p. 877.
Washington, Dixon E., assignor of one-half to C. W. Patton, Chicago, Ill. Valve. No. 958,451; May 17; Sp. p. 4471; Gaz. vol. 154; p. 731.
Washington, Dixon E., assignor of one-half to J. C. Morgan, Chicago, Ill. Razor-stropping device. No. 972,958; Oct. 18; Sp. p. 3201; Gaz. vol. 159; p. 557.
Wassam, Frank F. (See Ford and Wassam.)
Wasserstrom, William. (See Buchler and Wasserstrom.)
Wassman, August. (See Low and Wassman.)
Wassman, Fred C., Chicago, and M. E. Widell, Maywood, Ill., assignors to American Can Company, New York, N. Y. Soldering-machine. No. 975,912; Nov. 15; Sp. p. 4033; Gaz. vol. 160; p. 681.
Wassman, Fred C., Chicago, and M. E. Widell, Maywood, Ill., assignors to American Can Company, New York, N. Y. Soldering. No. 975,913; Nov. 15; Sp. p. 4041; Gaz. vol. 160; p. 681.
Wassmann, William J., Louisville, Ky. Cross-head. No. 957,920; May 17; Sp. p. 3033; Gaz. vol. 154; p. 544.
Wastel, Andrew L., Shawano, Wis. Milk-cooler. No. 961,275; June 14; Sp. p. 2108; Gaz. vol 155; p. 378.
Watanabe, Joseph G., St. Paul, Minn. Pencil-holder. No. 948,118; Feb. 1; Sp. p. 703; Gaz. vol. 151; p. 115.
Watanabe, Kamejiro, Seattle, Wash. Extension for warming-closets. No. 969,580; Sept. 6; Sp. p. 918; Gaz. vol. 158; p. 146.
Watanabe, Samuel T., Port Deposit, Md. Garment-hanger. No. 974,072; July 12; Sp. p. 2299; Gaz. vol. 156; p. 379.
Water Works Equipment Company. (See Van Winkle, Walter H., assignor.)
Waterbury Buckle Company. (See Moore, Roswell A., assignor.)
Waterbury Button Company. (See Smith, Joseph R., assignor.)
Waterbury Clock Co. (See Larkin, William J., assignor.)
Waterbury Clock Company. (See Wehinger, Frederick, assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Bissell, Percy R., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Griggs and Wilcox, assignors.)
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waterbury Mfg. Co., The. (See Perkins, Walter H., assignor.)
Waterhouse, Addison G., New York, N. Y., assignor to T. F. Bourne, trustee, Montclair, N. J. Method of and apparatus for thermal regulation. No. 973,150; Oct. 18; Sp. p. 3616; Gaz. vol. 159; p. 623.
Waterhouse, Harold D., Wollaston, Mass. Power tire-pump. No. 977,351; Nov. 29; Sp. p. 7203; Gaz. vol. 160; p. 1225.
Waterhouse, Harold D., Quincy, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic carrier-separator. No. 968,614; Aug. 30; Sp. p. 5909; Gaz. vol. 157; p. 1041.

Alphabetical list of inventions—Continued.

Waterhouse, Harold D., Quincy, assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Receiving apparatus for pneumatic-despatch systems. No. 974,617; Nov. 1; Sp. p. 1227; Gaz. vol. 160; p. 189.

Waterhouse, Harold D., Quincy, assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Sending mechanism for pneumatic-despatch apparatus. No. 974,618; Nov. 1; Sp. p. 1231; Gaz. vol. 160; p. 189.

Waterloo Gasoline Engine Company. (See Witry, Louis W., assignor.)

Waterloo Saddlery Co., The. (See Grings, Casper H., assignor.)

Waterman, Charlie H., assignor of one-third to D. E. Waterman and one-third to N. O. Hoyer, Newport, Wash. Well-drilling machine. No. 960,459; June 7; Sp. p. 435; Gaz. vol. 155; p. 74.

Waterman, Dennis E., *et al.* (See Waterman, Charlie H., assignor.)

Waterman, Fred W., Elyria, Ohio. Speed-limiting apparatus. No. 976,017; Nov. 15; Sp. p. 4228; Gaz. vol. 160; p. 717.

Waterman, Isaac G., New York, N. Y. Mechanical push-button valve. No. 951,862; Mar. 15; Sp. p. 2852; Gaz. vol. 152; p. 519.

Waterman, John K., Norfolk, Va. Safety-razor. No. 951,036; Mar. 1; Sp. p. 1167; Gaz. vol. 152; p. 191.

Waterman, Lewis E., assignor to Emerson-Brantingham Co., Rockford, Ill. Plow. No. 967,091; Aug. 9; Sp. p. 2708; Gaz. vol. 157; p. 445.

Waterman, Lewis E., assignor to Emerson-Brantingham Co., Rockford, Ill. Revolving harrow. No. 967,092; Aug. 9; Sp. p. 2709; Gaz. vol. 157; p. 445.

Waterman, Lewis E., assignor to Emerson-Brantingham Co., Rockford, Ill. Wheeled plow. No. 967,093; Aug. 9; Sp. p. 2710; Gaz. vol. 157; p. 445.

Waterman, Marcus B., Ambler, Pa., assignor to The J. M. Dodge Company, Naugatuck, Conn. Freight-handling plant. No. 966,275; Aug. 2; Sp. p. 912; Gaz. vol. 157; p. 146.

Waters, Beverly L., Aurora, Ill. Shelving. No. 971,707; Oct. 4; Sp. p. 407; Gaz. vol. 159; p. 71.

Waters, Eugene N., *et al.* (See Fongeallaz, Eugene, assignor.)

Waters, Llewelyn, Edwardsdale, Pa. Drill. No. 962,994; June 28; Sp. p. 5770; Gaz. vol. 155; p. 1010.

Waters, Thomas J., Chicago, Ill. Lubricant-separator. No. 945,427; Jan. 4; Sp. p. 914; Gaz. vol. 150; p. 142.

Waterworks Specialty Company, The. (See Bard, George R., assignor.)

Watkins, Arthur O., London, England. Printing. No. 954,366; Apr. 5; Sp. p. 1420; Gaz. vol. 153; p. 236.

Watkins, Benjamin F. (See Bryan, Gordon, assignor.)

Watkins, Clemens I., New Martinsville, W. Va. Milk-ticket or advertising and price card holder. No. 973,731; Oct. 25; Sp. p. 4872; Gaz. vol. 159; p. 847.

Watkins, Edwin D. (See Clark, Bullock, and Watkins.)

Watkins, George T., Kannapolis, N. C. Cam. No. 975,589; Nov. 15; Sp. p. 3367; Gaz. vol. 160; p. 571.

Watkins, Henry G., Whittier, Cal. Saw filer and setter. No. 952,656; Mar. 22; Sp. p. 4481; Gaz. vol. 152; p. 815.

Watkins, John E., Smithfield, Ky. Shoe attachment. No. 966,066; Aug. 2; Sp. p. 483; Gaz. vol. 157; p. 78.

Watkins, John H. (See Morris and Watkins.)

Watkins, Joseph E. (See Montgomery, Samuel E., assignor.)

Watkins, Leonard A., Chicago, Ill. Illusion-sign. No. 949,867; Feb. 22; Sp. p. 4393; Gaz. vol. 151; p. 787.

Watkins, Orla H., Ames, Iowa. Lawn-trimmer. No. 956,654; May 3; Sp. p. 322; Gaz. vol. 154; p. 52.

Watkins, Orla H., Ames, assignor to Globe Manufacturing Company, Perry, Iowa. Gearing for washing-machines. No. 958,452; May 17; Sp. p. 4473; Gaz. vol. 154; p. 732.

Watkins, Samuel W. (See Waite, Harry C., assignor.)

Watrous, Earl G., Chicago, Ill. Lavatory. No. 951,161; Mar. 8; Sp. p. 1412; Gaz. vol. 152; p. 256.

Watrous, Earl G., Chicago, Ill. Basin-cock. No. 974,938; Nov. 8; Sp. p. 1950; Gaz. vol. 160; p. 321.

Watrous, Earl G., Chicago, Ill. Water-closet valve. No. 974,939; Nov. 8; Sp. p. 1954; Gaz. vol. 160; p. 322.

Watrous, Earl G., Chicago, Ill. Refilling-valve. No. 975,091; Nov. 8; Sp. p. 2288; Gaz. vol. 160; p. 374.

Watrous, Earl G., Chicago, Ill. Fixture for bath-tubs and lavatories. No. 975,662; Nov. 15; Sp. p. 3533; Gaz. vol. 160; p. 596.

Watrous, Earl G., Chicago, Ill. Lavatory-fixture. No. 975,663; Nov. 15; Sp. p. 3541; Gaz. vol. 160; p. 597.

Watrous, Earl G., Chicago, Ill. Water-closet valve. No. 975,664; Nov. 15; Sp. p. 3545; Gaz. vol. 160; p. 597.

Watrous, Earl G., Chicago, Ill. Operating connection for water-closet valves. No. 975,812; Nov. 15; Sp. p. 3835; Gaz. vol. 160; p. 646.

Watrous, Edward, Georgesville, Ohio. Sliding-door fastener. No. 952,657; Mar. 22; Sp. p. 4483; Gaz. vol. 152; p. 816.

Watrous, Edward L., Des Moines, Iowa. Shutter-fastener. No. 955,728; Apr. 19; Sp. p. 4409; Gaz. vol. 153; p. 760.

Watrous, Edward L., Des Moines, Iowa. Sash-lock. No. 972,959; Oct. 18; Sp. p. 3205; Gaz. vol. 159; p. 557.

Watrous, Howard S., Fort Cobb, Okla. Animal-poke. No. 954,551; Apr. 12; Sp. p. 1819; Gaz. vol. 153; p. 327.

Watrous, John N., Thomaston, and C. Minor, Plymouth, assignors of one-third to E. C. Root, Thomaston, Conn. Sidehill-plow. No. 949,922; Feb. 22; Sp. p. 4548; Gaz. vol. 151; p. 806.

Watrous, Lawrence K., Sea Cliff, N. Y. Nut-lock. No. 980,034; Dec. 27; Sp. p. 5657; Gaz. vol. 161; p. 975.

Watry, Mathias, assignor of one-half to S. P. Bradley, Milwaukee, Wis. Insole-machine. No. 950,198; Feb. 22; Sp. p. 5139; Gaz. vol. 151; p. 902.

Watson, Alexander, Beachmont, assignor of one-third to B. C. Leavitt, Duxbury, and one-third to W. C. Mitchell, Malden, Mass. Gate-valve. No. 948,359; Feb. 8; Sp. p. 1205; Gaz. vol. 151; p. 220.

Watson, Anthony W., assignor of one-half to B. J. Reitze, Jersey City, N. J. Refrigerator-car. No. 971,478; Sept. 27; Sp. p. 4911; Gaz. vol. 158; p. 860.

Watson, Charles D., Ben Avon, Pa., and A. W. Buel, New York, N. Y. Reinforced concrete construction. No. 946,890; Jan. 18; Sp. p. 4233; Gaz. vol. 150; p. 697.

Watson, Charles G. (See Knickerbocker and Watson.)

Watson, Edmond P., Sr., Bentonville, Ark. Battleship-armor. No. 948,196; Feb. 1; Sp. p. 847; Gaz. vol. 151; p. 139.

Watson, George H., Marshall, Mich. Wrench. No. 964,346; July 12; Sp. p. 2857; Gaz. vol. 156; p. 471.

Watson, Henry W. and W. W., Jamestown, N. Y. Metal screen. No. 956,239; Apr. 26; Sp. p. 5549; Gaz. vol. 153; p. 968.

Watson, Henry W. and W. W., Jamestown, N. Y. Screen. No. 956,240; Apr. 26; Sp. p. 5552; Gaz. vol. 153; p. 968.

Watson, Herbert. (See Brazier and Watson.)

Watson, Herbert, Pittsburg, Pa., assignor to Searchlight Gas Company, Warren, Ohio. Gas-tank. No. 966,968; Aug. 9; Sp. p. 2449; Gaz. vol. 157; p. 403.

Watson, John B., Bradford, Pa. Nut-lock. No. 959,662; May 31; Sp. p. 6989; Gaz. vol. 154; p. 1190.

Watson, John W., Newton, Iowa. Adjustable hand disk cultivator. No. 950,084; Feb. 22; Sp. p. 4906; Gaz. vol. 151; p. 863.

Watson, Joseph L., Riesel, Tex. Dipper-trip for steam-shovels. No. 978,084; Dec. 6; Sp. p. 1426; Gaz. vol. 161; p. 230.

Watson, Joseph P., Hazlehurst, Miss. Electric-light hanger. No. 963,671; July 5; Sp. p. 1410; Gaz. vol. 156; p. 221.

Watson, Joseph P., Hazlehurst, Miss. Grate-basket. No. 972,665; Oct. 11; Sp. p. 2519; Gaz. vol. 159; p. 429.

Watson, Leslie J., Upton Works, Mich. Pressure-gage. No. 962,107; June 21; Sp. p. 3911; Gaz. vol. 155; p. 682.

Watson, Paris W., Jr., Lowestoft, England. Folding hood-framing for road-vehicles. No. 957,827; May 10; Sp. p. 2801; Gaz. vol. 154; p. 841.

Watson, Philip H., Leominster, Mass. Toilet article. No. 958,339; May 17; Sp. p. 4249; Gaz. vol. 154; p. 693.

Watson, Richard D., Rochester, Mich. Roofing-tile. No. 946,177; Jan. 11; Sp. p. 2575; Gaz. vol. 150; p. 427.

Watson, Robert M., Nickleville, Pa. Trace-fastener. No. 970,769; Sept. 20; Sp. p. 3500; Gaz. vol. 158; p. 599.

Watson, Samuel A., Chester, Vt. Broom-holder. No. 958,570; May 17; Sp. p. 4694; Gaz. vol. 154; p. 771.

Watson, Simeon P., Brooklyn, N. Y. Electric switch. No. 971,648; Oct. 4; Sp. p. 286; Gaz. vol. 159; p. 51.

Watson-Stillman Company, The. (See Baker, Richard W., assignor.)

Watson, Thomas S., Milwaukee, Wis. Apparatus for elevating, transporting, and discharging material. No. 971,708; Oct. 4; Sp. p. 408; Gaz. vol. 159; p. 71.

Watson, William A., Medford Hillside, Mass. Key-bottom. No. 967,866; Aug. 16; Sp. p. 4289; Gaz. vol. 157; p. 734.

Watson, William C., Camden, N. J. Device for water-surfacing paper. No. 952,852; Mar. 22; Sp. p. 4899; Gaz. vol. 152; p. 882.

Watson, William H., Keene, N. H. Cushion-heel. No. 972,088; Oct. 4; Sp. p. 1247; Gaz. vol. 159; p. 211.

Watson, William T., Vancouver, British Columbia, Canada. Car-fender. No. 962,278; June 21; Sp. p. 4282; Gaz. vol. 155; p. 740.

Watson, William W. (See Watson, Henry W. and W. W.)

Watt, Albert E., and S. Fielding, Bienfait, Saskatchewan, Canada. Shocking-machine. No. 964,073; July 12; Sp. p. 2301; Gaz. vol. 156; p. 379.

Watt, Hugh, Yarram Yarram, Victoria, Australia. Cultivating-machine for tilling and weeding land. No. 977,911; Dec. 6; Sp. p. 1062; Gaz. vol. 161; p. 169.

Watt, Matthew S., Duluth, Minn. Fireproof paint. No. 959,663; May 31; Sp. p. 6991; Gaz. vol. 154; p. 1190.

Watt Mining Car Wheel Company. (See Bines, William H., assignor.)

Watt, William J., Woodstock, Ontario, Canada. Hose-coupling. No. 949,608; Feb. 15; Sp. p. 3817; Gaz. vol. 151; p. 665.

Watters, John H., Augusta, Ga. Vehicle-wheel. No. 956,459; Apr. 26; Sp. p. 6011; Gaz. vol. 153; p. 1043.

Watters, John H., Augusta, Ga. Track-sander. No. 957,019; May 3; Sp. p. 1127; Gaz. vol. 154; p. 178.

Watters, John H., Augusta, Ga. Vehicle-wheel. No. 960,460; June 7; Sp. p. 436; Gaz. vol. 155; p. 74.

Alphabetical list of patentees—Continued.

Watterson, Charles P., assignor of one-fourth to H. R. Graham, McGill, Nev. Ore-sizing apparatus. No. 963,488; July 5; Sp. p. 1049; Gaz. vol. 156; p. 160.

Watterson, Claude E., Nashville, Tenn. Newspaper file or binder. No. 960,461; June 7; Sp. p. 437; Gaz. vol. 155; p. 74.

Watterson, James E., Pittsburg, Pa. Game apparatus. No. 950,810; Mar. 1; Sp. p. 750; Gaz. vol. 152; p. 120.

Watterson, John S., assignor of one-eighth to B. F. Vance, one-eighth to B. K. Vance, Bristol, two-eighths to W. D. Lyon, Bluff City, and one-eighth to A. R. Harkleroad, Mountain City, Tenn. Mechanism for converting motion. No. 950,975; Mar. 1; Sp. p. 1072; Gaz. vol. 152; p. 171.

Wattie, William, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Lay for narrow-ware looms. No. 946,295; Jan. 11; Sp. p. 2827; Gaz. vol. 150; p. 470.

Wattie, William, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Reamer. No. 952,158; Mar. 15; Sp. p. 3427; Gaz. vol. 152; p. 616.

Wattie, William, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Narrow-ware-loom rack. No. 952,159; Mar. 15; Sp. p. 3429; Gaz. vol. 152; p. 616.

Wattie, William, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Lay for narrow-ware looms. No. 962,183; June 21; Sp. p. 4088; Gaz. vol. 155; p. 709.

Wattles, Cyra B., assignor to Providence Gas Motor Company, Providence, R. I. Steering mechanism for automobiles. No. 859,978; May 31; Sp. p. 7700; Gaz. vol. 154; p. 1297.

Wattles, Cyra B., assignor to Surfacing Machine Company, Providence, R. I. Grinding or polishing wheel. No. 967,592; Aug. 16; Sp. p. 3746; Gaz. vol. 157; p. 644.

Wattne, Fredrik, Stavanger, Norway, assignor of one-half to H. B. Ritchie, Boston, Mass. Sheet-metal can or box. No. 955,445; Apr. 19; Sp. p. 3773; Gaz. vol. 153; p. 663.

Watts, Henry C., Fayetteville, Tenn. Bill and letter file. No. 977,494; Dec. 6; Sp. p. 145; Gaz. vol. 161; p. 25.

Watts, Howard W., Bloomsburg, Pa. Combination nest and perch. No. 968,101; Aug. 23; Sp. p. 4822; Gaz. vol. 157; p. 837.

Watts, James F., Spokane, Wash. Insect-trap. No. 958,786; May 24; Sp. p. 5154; Gaz. vol. 154; p. 869.

Watts, Rufus G., Jonesboro, Tenn. Watchmaker's tool. No. 964,347; July 12; Sp. p. 2857; Gaz. vol. 156; p. 471.

Waugh, Daniel S., assignor to The Denver Rock Drill & Machinery Company, Denver, Colo. Drill-feeding mechanism. No. 969,319; Sept. 6; Sp. p. 349; Gaz. vol. 158; p. 58.

Waugh, Daniel S., assignor to The Denver Rock Drill & Machinery Company, Denver, Colo. Fluid-pressure motor. No. 974,543; Nov. 1; Sp. p. 1082; Gaz. vol. 160; p. 162.

Waugh, Edward H. (See Kyle and Waugh.)

Wawrinsky, Thure E., and H. F. Albihn, assignors to Mjorkningsmaskinaktiebolaget, Stockholm, Sweden. Milking-machine. No. 948,360; Feb. 8; Sp. p. 1208; Gaz. vol. 151; p. 221.

Way, Charles H., assignor, by mesne assignments, to The "New Way" Motor Company, Lansing, Mich. Heat-radiating device. No. 945,881; Jan. 11; Sp. p. 1950; Gaz. vol. 150; p. 325.

Way, Chester F., Elm Creek, Nebr. Stacking device. No. 977,575; Dec. 6; Sp. p. 365; Gaz. vol. 161; p. 53.

Way, Harry A., Burlington, Vt. Metallic screen. No. 956,614; May 3; Sp. p. 231; Gaz. vol. 154; p. 39.

Way, Walter M., Denver, Colo. Non-refillable bottle. No. 961,822; June 21; Sp. p. 3282; Gaz. vol. 155; p. 585.

Waybright, Charles S., Crabbottom, Va. Hame-fastener. No. 976,414; Nov. 22; Sp. p. 5166; Gaz. vol. 160; p. 877.

Waycott, Albert. (See Handiges, Philip T., assignor.)

Waygood & Company, R. (See Carey, Robert, assignor.)

Wayne Manufacturing Company. (See Luehrmann, George E. W., assignor.)

Wayne Manufacturing Company. (See Munger, Carlton A., assignor.)

Wayne Shipping Case Company. (See Shepard, Melzar, assignor.)

Wayson, James T., Jr., Honolulu, Hawaii. Drive-chain. No. 973,242; Oct. 18; Sp. p. 3831; Gaz. vol. 159; p. 655.

Weakley, Raymond D., St. Louis, Mo. Hose-protector. No. 951,552; Mar. 8; Sp. p. 2219; Gaz. vol. 152; p. 385.

Weand, Oliver M. (See Scholl, Peter L., assignor.)

Weaner, Cornelius, Toledo, assignor of one-half to G. Henry, Risingsun, Ohio. Fastener for railway-rails. No. 978,798; Dec. 13; Sp. p. 2972; Gaz. vol. 161; p. 503.

Wear, Edgar T., Oakland, assignor, by mesne assignments, of one-half to F. F. Wear, San Francisco, Cal. Coffee-chaff extractor. No. 957,130; May 3; Sp. p. 1342; Gaz. vol. 154; p. 215.

Wear, Frank F. (See Wear, Edgar T., assignor.)

Weatherby, Joseph, Jr., New Cumberland, assignor to A. J. Dull, Harrisburg, Pa. Nodulizing fine ores. No. 949,387; Feb. 15; Sp. p. 3393; Gaz. vol. 151; p. 592.

Weatherill, Henry G., Elgin, Ill. Trace-holder. No. 955,026; Apr. 12; Sp. p. 2905; Gaz. vol. 153; p. 492.

Weatherly, John R., Savannah, Ga. Stalk-cutter. No. 976,959; Nov. 29; Sp. p. 6364; Gaz. vol. 160; p. 1089.

Weatherly, William M., Greensboro, N. C. Closet-fitting. No. 947,207; Jan. 18; Sp. p. 4848; Gaz. vol. 150; p. 799.

Weatherman, Robert W., assignor of one-half to F. Hartley, Selmore, Mo. Punch and bolt cutter. No. 975,006; Nov. 8; Sp. p. 2121; Gaz. vol. 160; p. 345.

Weathern, Benjamin F., West Farmington, Me. Harvester-cutter. No. 969,817; Sept. 13; Sp. p. 1465; Gaz. vol. 158; p. 253.

Weathers, Joseph S., Windsor, Mo. Calf-weaner. No. 977,352; Nov. 29; Sp. p. 7205; Gaz. vol. 160; p. 1225.

Weathers, William E., Frederick, Okla. Oil-burner. No. 965,775; July 26; Sp. p. 6003; Gaz. vol. 156; p. 1020.

Weatherson, Christopher, Chicago, Ill., assignor to The American Bridge Company, Pittsburg, Pa. Pneumatic riveting-tool. No. 979,617; Dec. 27; Sp. p. 4753; Gaz. vol. 161; p. 835.

Weatherspoon, William S., *et al.* (See McCain, Edward J., assignor.)

Weatherwax, Charles L., assignor to Union Special Machine Company, Chicago, Ill. Sack. No. 962,934; June 28; Sp. p. 5657; Gaz. vol. 155; p. 990.

Weaver, Albert M., and H. E. Taylor, Alligator, Miss. Barrel-cover. No. 960,606; June 7; Sp. p. 746; Gaz. vol. 155; p. 123.

Weaver, Arvie E. J., Brewton, Ala. Ironing-board. No. 978,342; Dec. 13; Sp. p. 2006; Gaz. vol. 161; p. 349.

Weaver, Bent L. (See Reinoehl and Weaver.)

Weaver, Eugene M., Jamaica, N. Y., assignor to General Electric Company. Rail-bond. No. 976,617; Nov. 22; Sp. p. 5598; Gaz. vol. 160; p. 947.

Weaver, Henry M., Mansfield, Ohio. Cash and package carrier. No. 977,059; Nov. 29; Sp. p. 6581; Gaz. vol. 160; p. 1123.

Weaver, Henry W., Hutchinson, Kans. Steam-engine. No. 961,186; June 14; Sp. p. 1910; Gaz. vol. 155; p. 346.

Weaver, Ira A., assignor to Racine-Sattley Company, Springfield, Ill. Lister. No. 977,576; Dec. 6; Sp. p. 367; Gaz. vol. 161; p. 54.

Weaver, John P., Terre Haute, Ind. Reel-holder. No. 956,241; Apr. 26; Sp. p. 5554; Gaz. vol. 153; p. 968.

Weaver, John P., Terre Haute, Ind. Reel-holder. No. 956,242; Apr. 26; Sp. p. 5555; Gaz. vol. 153; p. 968.

Weaver, John W., Toledo, Ohio. Car-fender. No. 953,726; Apr. 5; Sp. p. 87; Gaz. vol. 153; p. 18.

Weaver, Mary J., Rosebud, Tex. Dish-washer. No. 963,672; July 5; Sp. p. 1411; Gaz. vol. 156; p. 221.

Weaver, Samuel B., Sac City, Iowa. Dress-suit rack. No. 973,090; Oct. 18; Sp. p. 3483; Gaz. vol. 159; p. 601.

Weaver, Thomas E., assignor of one-half to E. C. Rawls, Pelham, Ga. Glazing-strip. No. 947,139; Jan. 18; Sp. p. 4699; Gaz. vol. 150; p. 776.

Weaver, Vernon A., Three Hills, Alberta, Canada. Oil-can. No. 958,949; May 24; Sp. p. 5516; Gaz. vol. 154; p. 926.

Weaver, Walter T., Gulfport, Miss. Cutter-head for hydraulic dredges. No. 962,540; June 28; Sp. p. 4862; Gaz. vol. 155; p. 855.

Weaver, William J., *et al.* (See Hales, William E., assignor.)

Weaver, William R., Ducktown, Tenn. Combined organ and piano. No. 954,659; Apr. 12; Sp. p. 2070; Gaz. vol. 153; p. 364.

Weaver, William T. S. (See Suddoth and Weaver.)

Webb, Benjamin O., Los Angeles, Cal. Cyanid-barrel. No. 956,655; May 3; Sp. p. 323; Gaz. vol. 154; p. 53.

Webb City & Carterville Foundry & Machine Works. (See Knowles, Camden E., assignor.)

Webb, Edward O., Jr., San Jose, Cal. Stamp holding and delivering cabinet. No. 976,018; Nov. 15; Sp. p. 4231; Gaz. vol. 160; p. 717.

Webb, Emmet F., Osyka, Miss. Apparatus for thinning plants. No. 957,131; May 3; Sp. p. 1344; Gaz. vol. 154; p. 215.

Webb, Floyd, assignor to The Miller, Sprague, Waldo Manufacturing Company, Detroit, Mich. Lamp. No. 968,502; Aug. 23; Sp. p. 5669; Gaz. vol. 157; p. 976.

Webb, Frank J., New York, N. Y. Device for hanging doors. No. 966,276; Aug. 2; Sp. p. 914; Gaz. vol. 157; p. 146.

Webb, George A., Randfontein, Transvaal. Jockey or rope-grip for mechanical haulage. No. 946,747; Jan. 18; Sp. p. 3869; Gaz. vol. 150; p. 646.

Webb, George B., Kinston, N. C. Attachment for hearses. No. 945,650; Jan. 4; Sp. p. 1378; Gaz. vol. 150; p. 215.

Webb, George R. (See Comer, John J., assignor.)

Webb, Hartwell W., Creskill, and E. H. Stickels, Edgewater, N. J., assignors to Gyrex Mfg. Co., New York, N. Y. Mixer for gaseous fluids. No. 971,332; Sept. 27; Sp. p. 4646; Gaz. vol. 158; p. 813.

Webb, Hartwell W., Cresskill, and E. H. Stickels, Edgewater, N. J., assignors to Gyrex Manufacturing Company, New York, N. Y. Mixer for gaseous fluids. No. 976,415; Nov. 22; Sp. p. 5168; Gaz. vol. 160; 878.

Webb, Herbert D., and N. Baxter, Anderson, Ind. Dust-separator. No. 945,205; Jan. 4; Sp. p. 412; Gaz. vol. 150; p. 68.

Webb Jay Motor Company, The. (See Caldwell, Edwin D., assignor.)

Alphabetical list of patentees—Continued.

Webb, Jean F., Jr., assignor to The Electric Signagraph and Semaphore Co., New York, N. Y. Train-stopping and signal-actuating mechanism. No. 948,361; Feb. 8; Sp. p. 1209; Gaz. vol. 151; p. 221.
Webb, Jean F., Jr., assignor to The Electric Signagraph and Semaphore Co., New York, N. Y. Air-operated electrically-controlled valve mechanism for air-brake and train-stopping systems. No. 948,404; Feb. 8; Sp. p. 1317; Gaz. vol. 151; p. 236.
Webb, Jean F., Jr., assignor to The Electric Signagraph and Semaphore Co., New York, N. Y. Air-operated electrically-controlled valve mechanism. No. 948,405; Feb. 8; Sp. p. 1322; Gaz. vol. 151; p. 236.
Webb, Jean F., Jr., assignor to The Electric Signagraph and Semaphore Co., New York, N. Y. Air-operated electrically-controlled valve mechanism. No. 948,406; Feb. 8; Sp. p. 1324; Gaz. vol. 151; p. 237.
Webb, Jean F., Jr., assignor to The Electric Signagraph and Semaphore Co., New York, N. Y. Train-stopping mechanism. No. 958,047; May 17; Sp. p. 3455; Gaz. vol. 154; p. 591.
Webb, John F., Battersea, assignor to himself and P. Tarbutt, London, England. Filtering apparatus for use in connection with the washing of slimes and for other similar purposes. No. 968,720; Aug. 30; Sp. p. 6170; Gaz. vol. 157; p. 1078.
Webb, John G., Vigo, Ohio. Scrubbing-machine. No. 957,828; May 10; Sp. p. 2803; Gaz. vol. 154; p. 482.
Webb, Joseph, assignor to The Bivalve Company, Cincinnati, Ohio. Mussel-dredge and separating apparatus. No. 978,968; Dec. 20; Sp. p. 3348; Gaz. vol. 161; p. 589.
Webb, L. H., *et al.* (See Kimball, Robert E., assignor.)
Webb, Marion F., *et al.* (See Wright, William, assignor.)
Webb, Robert D. and S. J., Minden, La. Hydraulic compress. No. 952,853; Mar. 22; Sp. p. 4901; Gaz. vol. 152; p. 882.
Webb, Samuel F., Wichita, Kans. Line and corner fence post and bracer. No. 966,969; Aug. 9; Sp. p. 2450; Gaz. vol. 157; p. 403.
Webb, Samuel J. (See Webb, Robert D. and S. J.)
Webb, Samuel J., Minden, La. Gas-engine. No. 962,995; June 28; Sp. p. 5771; Gaz. vol. 155; p. 1010.
Webb, Samuel J., Minden, La. Press. No. 966,067; Aug. 2; Sp. p. 484; Gaz. vol. 157; p. 78.
Webb, Wilhelmina A. M. (See Hunter, Laura G., assignor.)
Webb, William B., St. Louis, Mo. Dry and water closet attachment. No. 968,009; Aug. 23; Sp. p. 4614; Gaz. vol. 157; p. 806.
Webb, William C. (See Berglund and Webb.)
Webb, William G., Glens Falls, and J. H. Barnard, Sandy Hill, N. Y. Fastening means for screen-plates. No. 959,979; May 31; Sp. p. 7702; Gaz. vol. 154; p. 1298.
Webber, Arthur H., Boston, Mass. Internal-combustion engine. No. 978,969; Dec. 20; Sp. p. 3352; Gaz. vol. 161; p. 589.
Webber, John B., Jr., assignor to The Vulcan Steam Shovel Company, Toledo, Ohio. Power-excavator. (Reissue.) No. 13,107; Apr. 26; Sp. p. 6118; Gaz. vol. 153; p. 1059.
Webber, Philip H., Hoopeston, Ill. Tongue-support. No. 968,010; Aug. 23; Sp. p. 4616; Gaz. vol. 157; p. 807.
Webber, William O. (See Bicknell and Webber.)
Weber, A. J. (See Fifield, Warren, assignor.)
Weber, August, Jr., assignor, by mesne assignments, to Weber Electric Company, Schenectady, N. Y. Receptacle for incandescent electric lamps. No. 965,258; July 26; Sp. p. 4865; Gaz. vol. 156; p. 840.
Weber, Carl. (See Perkins, Sydney B., assignor.)
Weber, Carl, assignor to The Weber Chimney Company, Chicago, Ill. Erecting-mold for concrete structures. No. 968,905; Aug. 30; Sp. p. 6550; Gaz. vol. 157; p. 1140.
Weber, Charles S., San Jose, Cal. Stringed musical instrument. No. 968,102; Aug. 23; Sp. p. 4823; Gaz. vol. 157; p. 837.
Weber, Charles W., McGregor, Tex. Cotton-chopper. No. 969,757; Sept. 6; Sp. p. 1299; Gaz. vol. 158; p. 208.
Weber Chimney Company, The. (See Weber, Carl, assignor.)
Weber Dental Manufacturing Company, The. (See Weber, Henry E., assignor.)
Weber, Edmund H., Chisholm, Minn. Hanger for electric lights. No. 963,673; July 5; Sp. p. 1412; Gaz. vol. 156; p. 221.
Weber, Edward H., St. Louis, Mo. Lock for electric lamps. No. 963,191; July 5; Sp. p. 414; Gaz. vol. 156; p. 59.
Weber, Edwin L. (See Sullivan, William F., assignor.)
Weber Electric Company. (See Weber, August, Jr., assignor.)
Weber, Emil H., Louisville, Ky. Pipe-cleaner. No. 963,965; July 12; Sp. p. 2086; Gaz. vol. 156; p. 340.
Weber, Emil T., St. Louis, Mo. Mop holder and wringer. No. 972,739; Oct. 11; Sp. p. 2678; Gaz. vol. 159; p. 454.
Weber, Franz J., Portland, Oreg. Game-points indicator. No. 963,343; July 5; Sp. p. 762; Gaz. vol. 156; p. 111.
Weber, George, Mount Oliver, assignor of one-tenth to A. Kiefer, Pittsburg, Pa. Trolley. No. 970,865; Sept. 20; Sp. p. 3705; Gaz. vol. 158; p. 633.
Weber, George C., Chicago, Ill. Box-opening device. No. 948,152; Feb. 1; Sp. p. 769; Gaz. vol. 151; p. 126.
Weber, George J., Kansas City, Mo. Explosive-engine. No. 951,352; Mar. 8; Sp. p. 1805; Gaz. vol. 152; p. 317.
Weber, George J., assignor to L. M. Weber, Kansas City, Mo. Producing gas. No. 978,970; Dec. 20; Sp. p. 3353; Gaz. vol. 161; p. 590.
Weber, George S. (See Risser, Arthur L., assignor.)
Weber, George W., assignor to American Can Company, New York, N. Y. Can-flange swaging and soldering machine. No. 977,689; Dec. 6; Sp. p. 608; Gaz. vol. 161; p. 93.
Weber, Gustav, Hagen, Westphalia, Germany. Cutter for wood-screw-cutting machines. No. 956,748; May 3; Sp. p. 527; Gaz. vol. 154; p. 85.
Weber, Harry L., *et al.* (See McFarland, William W., assignor.)
Weber, Harry L., Bucyrus, Ohio. Anchorage for concrete work. No. 973,828; Oct. 25; Sp. p. 5064; Gaz. vol. 159; p. 880.
Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Wire-feeding mechanism for stapling-machines. No. 958,201; May 17; Sp. p. 3811; Gaz. vol. 154; p. 644.
Weber, Henry E., Canton, Ohio. Pasteurizing apparatus. No. 951,893; Mar. 15; Sp. p. 2924; Gaz. vol. 152; p. 529.
Weber, Henry E., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Dental chair. No. 958,048; May 17; Sp. p. 3459; Gaz. vol. 154; p. 591.
Weber, Henry E., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Cuspidor. No. 970,148; Sept. 13; Sp. p. 2141; Gaz. vol. 158; p. 365.
Weber, John, Elba, N. Y. Detachable rack for wagons. No. 957,586; May 10; Sp. p. 2305; Gaz. vol. 154; p. 400.
Weber, John, Elba, N. Y. Making horseshoes. No. 965,259; July 26; Sp. p. 4866; Gaz. vol. 156; p. 841.
Weber, John, Jr., assignor to The Toledo Metal Wheel Company, Toledo, Ohio. Collapsible cart. No. 972,740; Oct. 11; Sp. p. 2679; Gaz. vol. 159; p. 454.
Weber, John F., Milwaukee, Wis. Sharpener for scraper-blades. No. 947,875; Feb. 1; Sp. p. 217; Gaz. vol. 151; p. 35.
Weber, John F., West Allis, Wis. Floor-scraper. No. 954,485; Apr. 12; Sp. p. 1680; Gaz. vol. 153; p. 304.
Weber, John F., West Allis, Wis. Cabinet-finishing tool. No. 975,590; Nov. 15; Sp. p. 3368; Gaz. vol. 160; p. 572.
Weber, Josef. (See Goldschmidt and Weber.)
Weber, Josef. (See Goldschmidt and Weber.) (Reissue.)
Weber, Josef, Essen-on-the-Ruhr, Germany. Regenerating stannic chlorid solutions. No. 958,986; May 24; Sp. p. 5589; Gaz. vol. 154; p. 939.
Weber, Joseph, Liberty, assignor to W. L. Morehouse, Brooklyn, N. Y. Perforating or punching machine. No. 969,737; Sept. 6; Sp. p. 1246; Gaz. vol. 158; p. 201.
Weber, Karl, assignor to W. Utendörfer, Cologne, Germany. Aiming device with search-light. No. 976,416; Nov. 22; Sp. p. 5171; Gaz. vol. 160; p. 878.
Weber, Louesa M. (See Weber, George J., assignor.)
Weber, Mathias A. (See Frogue and Weber.)
Weber, Paul, assignor to C. J. Mégevet, Geneva, Switzerland. Cooler for internal-combustion engines. No. 947,424; Jan. 25; Sp. p. 5386; Gaz. vol. 150; p. 903.
Weber, Peter, Orange, N. J. Apparatus for erecting concrete structures. No. 976,960; Nov. 29; Sp. p. 6365; Gaz. vol. 160; p. 1089.
Weber, Peter, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-reproducer. No. 951,496; Mar. 8; Sp. p. 2110; Gaz. vol. 152; p. 365.
Weber, Peter, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-reproducer. (Reissue.) No. 13,120; June 7; Sp. p. 1721; Gaz. vol. 155; p. 286.
Weber, Peter, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Diaphragm for phonographs. No. 975,377; Nov. 8; Sp. p. 2920; Gaz. vol. 160; p. 471.
Weber, Peter, assignor to Sohmer & Company, New York, N. Y. Top-stick for grand pianos. No. 962,605; June 28; Sp. p. 5014; Gaz. vol. 155; p. 877.
Weber, R. H. (See Neudeck, Benjamin F., assignor.)
Weber, Vittorio V., Milan, Italy. Machine for reeling cocoons. No. 962,279; June 21; Sp. p. 4286; Gaz. vol. 155; p. 740.
Weber, William, Allentown, Pa. Mechanism for securing rails to ties. No. 955,233; Apr. 19; Sp. p. 3324; Gaz. vol. 153; p. 593.
Weberbauer, Arthur H., Newark, N. J. Tool for extracting piano hammer heads and shanks. No. 946,296; Jan. 11; Sp. p. 2829; Gaz. vol. 150; p. 470.
Webster, Allen. (See Brosnan, Cornelius J., assignor.)
Webster, Benjamin C., Bridgeport, Conn. Electric switch. No. 969,581; Sept. 6; Sp. p. 920; Gaz. vol. 158; p. 147.
Webster, Bester R., Elgin, assignor to Wahl Adding Machine Co., Chicago, Ill. Calculating-machine. No. 968,103; Aug. 23; Sp. p. 4824; Gaz. vol. 157; p. 838.
Webster, Charles H., Thomaston, Me. Combination straight-edge shingling and clapboard gage. No. 952,772; Mar. 22; Sp. p. 4738; Gaz. vol. 152; p. 854.
Webster, Frank S., Lexington, Nebr. Ticket or tag hook. No. 972,043; Oct. 4; Sp. p. 1165; Gaz. vol. 159; p. 196.

Alphabetical list of patentees—Continued.

Webster, George A., Somerville, assignor to Star Brass Manufacturing Company, Boston, Mass. Reducing-wheel. No. 973,596; Oct. 25; Sp. p. 4573; Gaz. vol. 159; p. 798.

Webster, George J., *et al.* (See Stickle, Arthur W., assignor.)

Webster, Harry G., Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 949,012; Feb. 15; Sp. p. 2596; Gaz. vol. 151; p. 466.

Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Combined telephone and control system. No. 962,192; July 5; Sp. p. 415; Gaz. vol. 156; p. 59.

Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company, Telephone system. No. 967,692; Aug. 16; Sp. p. 3934; Gaz. vol. 157; p. 675.

Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Automatic telephone system. No. 976,524; Nov. 22; Sp. p. 5388; Gaz. vol. 160; p. 914.

Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Combined telephone and service system. No. 976,961; Nov. 29; Sp. p. 6370; Gaz. vol. 160; p. 1090.

Webster, Harry L., and J. G. Reding, Cedar Rapids, Iowa. Saw. No. 945,828; Jan. 11; Sp. p. 1831; Gaz. vol. 150; p. 306.

Webster, Henry J., *et al.* (See Utley, John H., assignor.)

Webster, Herbert, and S. Rothera, Methuen, Mass. Loom. No. 950,358; Feb. 22; Sp. p. 5449; Gaz. vol. 151; p. 955.

Webster, Hyleman A., assignor of one-fourth to A. M. Hughes, Columbia, one-fourth to J. W. Conner, Knoxville, Tenn, and one-fourth to E. W. Bradford, Washington, D. C. Process and apparatus for making slag shingles. No. 964,348; July 12; Sp. p. 2859; Gaz. vol. 156; p. 471.

Webster, John. (See Williams, Harry W., assignor.)

Webster, John E., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Induction-motor. No. 971,649; Oct. 4; Sp. p. 288; Gaz. vol. 159; p. 52.

Webster, John E., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Resilient connection. (Reissue.) No. 13,165; Nov. 8; Sp. p. 2945; Gaz. vol. 160; p. 475.

Webster, John E., Pittsburg, and F. Duff, Allegheny, Pa., assignors to Westinghouse Electric & Manufacturing Company. Coil-shield for dynamo-electric machines. No. 956,553; May 3; Sp. p. 98; Gaz. vol. 154; p. 18.

Webster, John E., and J. L. Davis, Pittsburg, Pa., assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 956,554; May 3; Sp. p. 99; Gaz. vol. 154; p. 18.

Webster, John M., assignor to The O. P. Schriver Company, Cincinnati, Ohio. Metal-tube-forming machine. No. 950,163; Feb. 22; Sp. p. 5067; Gaz. vol. 151; p. 889.

Webster, Norman A. (See Rockwell, Byrd C., assignor.)

Webster, Ralph D., Elmira, N. Y. Back-pedaling coaster-brake. No. 961,187; June 14; Sp. p. 1912; Gaz. vol. 155; p. 347.

Webster, Towner K. (See Milton, John L., assignor.)

Weckesser, Oscar H., Ross township, Allegheny county, Pa. Mixing-machine. No. 945,651; Jan. 4; Sp. p. 1379; Gaz. vol. 150; p. 215.

Weddle, John P., and G. A. Robinson, assignors of one-sixth to M. J. Anderson and one-sixth to R. L. Brown, Memphis, Tenn. Boring-machine. No. 968,298; Aug. 23; Sp. p. 5257; Gaz. vol. 157; p. 905.

Wedekind, Carlo, St. Jean-sur-Mer, France. Centrifugal apparatus for compressing and propelling fluids. No. 951,162; Mar. 8; Sp. p. 1414; Gaz. vol. 152; p. 257.

Wedel, August F. W. J. von, Hamburg, Germany. Typewriting machine. No. 945,829; Jan. 11; Sp. p. 1833; Gaz. vol. 150; p. 307.

Wedell, Otto B., assignor to Elgin Eyeglass Reel Co., Elgin, Ill. Reel-holder. No. 972,741; Oct. 11; Sp. p. 2682; Gaz. vol. 159; p. 455.

Wedge, Carrie, *et al.* (See Wedge, Frank N., assignor.)

Wedge, Frank N., assignor of one-half to C. and W. G. Wedge, Cleveland, Ohio. Hoisting and conveying apparatus. No. 955,832; Apr. 19; Sp. p. 4612; Gaz. vol. 153; p. 797.

Wedge, Theodore C. H., Indianapolis, Ind. Multiple horse holder and releaser. No. 962,804; June 28; Sp. p. 5421; Gaz. vol. 155; p. 947.

Wedge, Utley, Ardmore, Pa. Furnace. No. 946,178; Jan. 11; Sp. p. 2576; Gaz. vol. 150; p. 428.

Wedge, Utley, Ardmore, Pa. Ore-roasting furnace. No. 966,277; Aug. 2; Sp. p. 915; Gaz. vol. 157; p. 147.

Wedge, Utley, Ardmore, Pa. Screening-conveyer. No. 973,597; Oct. 25; Sp. p. 4576; Gaz. vol. 159; p. 798.

Wedge, Utley, Ardmore, assignor to The Furnace Patent Company, Philadelphia, Pa. Treating sulfids or sulfates. No. 976,525; Nov. 22; Sp. p. 5410; Gaz. vol. 160; p. 915.

Wedge, William G., *et al.* (See Wedge, Frank N., assignor.)

Wedgworth, John K., Cuba, Ala. Nut-lock. No. 972,960; Oct. 18; Sp. p. 3206; Gaz. vol. 159; p. 557.

Wedmark, Paul H., Lindstrom, Minn. Smoke-exhausting device for tunnels. No. 957,396; May 10; Sp. p. 1941; Gaz. vol. 154; p. 336.

Wedmore, Daniel A., assignor to Philadelphia Steel & Wire Co., Philadelphia, Pa. Metallic reinforce for concrete construction. No. 972,961; Oct. 18; Sp. p. 3208; Gaz. vol. 159; p. 558.

Weed, David W., Stamford, assignor to Eagle Lock Co., Terryville, Conn. Mortise door-lock. No. 966,970; Aug. 9; Sp. p. 2452; Gaz. vol. 157; p. 403.

Weed, David W., Stamford, assignor to Eagle Lock Co., Terryville, Conn. Mortise door-lock. No. 971,333; Sept. 27; Sp. p. 4648; Gaz. vol. 158; p. 813.

Weed, Harry D. (See Story and Winkel, assignors.)

Weed, Harry D., Syracuse, N. Y. Grip-tread for tires. No. 953,673; Mar. 29; Sp. p. 6665; Gaz. vol. 152; p. 1187.

Weed, Helen I., Buffalo, N. Y. Edible-nut cracker. No. 956,555; May 3; Sp. p. 101; Gaz. vol. 154; p. 19.

Weeden, Arthur W., Somerville, assignor of one-half to A. W. Erickson, Cambridge, Mass. Base-ball-game apparatus. No. 977,149; Nov. 29; Sp. p. 6795; Gaz. vol. 160; p. 1155.

Weeden, Daniel J., Prudence, R. I. Hen's nest. No. 968,906; Aug. 30; Sp. p. 6553; Gaz. vol. 157; p. 1141.

Weekes, William E., Salt Lake City, Utah. Rock-drill extractor. No. 965,054; July 19; Sp. p. 4458; Gaz. vol. 156; p. 742.

Weeks, Charles A., Philadelphia, Pa. Electric furnace. No. 949,511; Feb. 15; Sp. p. 3630; Gaz. vol. 151; p. 632.

Weeks, Charles D., Akron, Ohio. Padlock. No. 956,007; Apr. 26; Sp. p. 5019; Gaz. vol. 153; p. 887.

Weeks, Frederick A., Macedon, N. Y. Pencil-holder pocket. No. 965,669; July 26; Sp. p. 5775; Gaz. vol. 156; p. 983.

Weeks, George, Chelmsford, assignor to The Hoffmann Manufacturing Company Limited, London, England. Machine for grinding rollers. No. 965,776; July 26; Sp. p. 6005; Gaz. vol. 156; p. 1020.

Weeks, Harry G. (See Parkhurst and Weeks.)

Weeks, Harry G., Pittsfield, Mass., assignor to General Electric Company. Connector for electric conductors. No. 945,995; Jan. 11; Sp. p. 2201; Gaz. vol. 150; p. 365.

Weeks, John B., assignor to The Long Furniture Company, Hanover, Pa. Extension-table. No. 957,637; May 10; Sp. p. 2414; Gaz. vol. 154; p. 418.

Weeks, Oscar J., New York, N. Y. Receptacle. No. 966,278; Aug. 2; Sp. p. 917; Gaz. vol. 157; p. 147.

Weems, Joney E., assignor of one-half to L. O. Martz, Perkins, Okla. Railway-tie. No. 952,057; Mar. 15; Sp. p. 3241; Gaz. vol. 152; p. 583.

Weeper, Gordon S., Fultonville, N. Y. Yarn-guide-controlling mechanism for traverse warp-knitting machines. No. 966,875; Aug. 9; Sp. p. 2266; Gaz. vol. 157; p. 371.

Weerts, Eilert, and J. Wuebbenhorst, Wentworth, S. D. Rein and trace holder. No. 951,163; Mar. 8; Sp. p. 1415; Gaz. vol. 152; p. 257.

Weerts, John. (See Harley, William M., assignor.)

Wege, Peter M., Youngstown, Ohio, assignor to The General Fireproofing Company, New York, N. Y. Metal structure. No. 956,556; May 3; Sp. p. 101; Gaz. vol. 154; p. 19.

Wegener, Ernst A. (See Grant and Wegener.)

Wegener, Frank C., Des Moines, Iowa. Game apparatus. No. 964,718; July 19; Sp. p. 3778; Gaz. vol. 156; p. 628.

Wegescheidt, Carl, Cologne-Bayenthal, Germany. Gas-purifier. No. 964,719; July 19; Sp. p. 3780; Gaz. vol. 156; p. 629.

Wegman, George, assignor of one-third to R. A. Smith, Beaver Dam, Wis., and one-third to R. J. Sutton, Chicago, Ill. Faucet for drawing liquids. No. 957,524; May 10; Sp. p. 2197; Gaz. vol. 154; p. 379.

Wegman, Henry. (See Lewis, Charles, assignor.)

Wegner, Edward H., Cameron, Idaho. Carpet-stretcher. No. 953,877; Apr. 5; Sp. p. 386; Gaz. vol. 153; p. 70.

Wegner, Fred, Fairport, N. Y. Can-heading machine. No. 954,151; Apr. 5; Sp. p. 973; Gaz. vol. 153; p. 164.

Wegner, Fred, assignor to Sanitary Can Company, Fairport, N. Y. Receptacle with handle. No. 964,720; July 19; Sp. p. 3783; Gaz. vol. 156; p. 629.

Wegner, Fred, assignor to Sanitary Can Company, Fairport, N. Y. Feeding mechanism. No. 964,721; July 19; Sp. p. 3784; Gaz. vol. 156; p. 629.

Wegner, Frederick A., Milwaukee, Wis., assignor to Milwaukee Grain Dryer Company. Grain-drier. No. 965,260; July 26; Sp. p. 4867; Gaz. vol. 156; p. 841.

Wegner, Frederick A., assignor, by mesne assignments, of one-half to H. C. Graham, Milwaukee, Wis. Device for regulating the discharge of grain-heaters. No. 971,479; Sept. 27; Sp. p. 4912; Gaz. vol. 158; p. 860.

Wegner, Frederick A., assignor, by mesne assignments, of one-half to H. C. Graham, Milwaukee, Wis. Agitator for grain-heaters. No. 971,480; Sept. 27; Sp. p. 4913; Gaz. vol. 158; p. 860.

Wegner, Gustav F., South Bend, Ind. Combined holder and centering-tool. No. 966,500; Aug. 9; Sp. p. 1409; Gaz. vol. 157; p. 247.

Wegner, William F., assignor to S. T. Williams, New York, N. Y. Turbine. No. 960,747; June 7; Sp. p. 1025; Gaz. vol. 155; p. 173.

Alphabetical list of patentees—Continued.

Wehinger, Frederick, assignor to Waterbury Clock Company, Waterbury, Conn. Center-friction for watches and clocks. No. 958,987; May 24; Sp. p. 5590; Gaz. vol. 154; p. 939.
Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Stem-winding and stem-setting watch. No. 968,436; Aug. 23; Sp. p. 5526; Gaz. vol. 157; p. 953.
Wehrenberg, Charles E., assignor to Belleville Baler Company, Belleville, Ill. Baling-press. No. 973,151; Oct. 18; Sp. p. 3620; Gaz. vol. 159; p. 624.
Weichel, John H. (See Stamm and Weichel.)
Weichelt, Carl, Maricopa, Cal. Cushion-tire for vehicle-wheels. No. 947,535; Jan. 25; Sp. p. 5659; Gaz. vol. 150; p. 940.
Weichsel, Hans, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Starting device for electrical motors. No. 957,587; May 10; Sp. p. 2307; Gaz. vol. 154; p. 401.
Weickert, Max, Plauen, Germany. Incandescent mantle. No. 951,710; Mar. 8; Sp. p. 2510; Gaz. vol. 152; p. 436.
Weidel, Herman F., Rochester, N. Y. Aeroplane. No. 951,585; Mar. 8; Sp. p. 2276; Gaz. vol. 152; p. 395.
Weidemann, Henry J. (See Brennan, James P., assignor.)
Weidemann, Reinhold, assignor of one-half to M. Gabert, Houston, Tex. Spoke-tightening device. No. 952,487; Mar. 22; Sp. p. 4103; Gaz. vol. 152; p. 756.
Weidig, Friedrich, Gewerkschaft Desdemona, near Alfeld, Germany. Safety-catch for suspended lift-cages. No. 964,890; July 19; Sp. p. 4132; Gaz. vol. 156; p. 688.
Weidman, John H., Marcellus, N. Y. Metallic support for wood ties. No. 974,321; Nov. 1; Sp. p. 564; Gaz. vol. 160; p. 82.
Weigand, Alfred, Washington, D. C., assignor of one-half to C. F. Schoenewolf, Baltimore, Md., and one-half to J. E. Field, White Plains, N. Y. Lacing-hook. No. 957,281; May 10; Sp. p. 1702; Gaz. vol. 154; p. 298.
Weigand, Francis L., Burlington, Kans. Crate. No. 955,027; Apr. 12; Sp. p. 2906; Gaz. vol. 153; p. 492.
Weigert, Oscar L. (See Ullrich and Weigert.)
Weight, William H., Bishopton, Bristol, England. Brake for road-vehicles. No. 966,722; Aug. 9; Sp. p. 1903; Gaz. vol. 157; p. 322.
Weighton, Robert L., Newcastle-upon-Tyne, England. Air-indicator for steam-condensing plants. No. 950,976; Mar. 1; Sp. p 1074; Gaz. vol. 152; p. 172.
Weiher, Louis F., New York, N. Y. Window-shade support. No. 978,246; Dec. 13; Sp. p. 1796; Gaz. vol. 161; p. 315.
Weiher, Louis F., New York, N. Y. Window-shade support. No. 978,247; Dec. 13; Sp. p. 1798; Gaz. vol. 161; p. 315.
Weihman, Henry, assignor of one-half to E. Dieterla, Chicago, Ill. Sight-feed lubricator. No. 949,339; Feb. 15; Sp. p. 3275; Gaz. vol. 151; p. 574.
Weikel, Wilson, Trenton, Ohio. Protective means for safes. No. 955,234; Apr. 19; Sp. p. 3326; Gaz. vol. 153; p. 593.
Weil, Benjamin L., New York, N. Y. Bottle-cap. No. 967,593; Aug. 16; Sp. p. 3748; Gaz. vol. 157; p. 644.
Weil, Charles P., *et al.* (See Trini, Anton, assignor.)
Weil, Daniel, Paris, France. Cigarette-manufacturing machine. No. 966,279; Aug. 2; Sp. p. 920; Gaz. vol. 157; p. 147.
Weil, Fred P., *et al.* (See Trini, Anton, assignor.)
Weil, George W., Akron, Ohio. Metallic fence-post. No. 976,235; Nov. 22; Sp. p. 4756; Gaz. vol. 160; p. 815.
Weil, Julius E., Chicago, Ill. Combination trousers-band regulator and belt-retainer. No. 959,086; May 24; Sp. p. 5806; Gaz. vol. 154; p. 972.
Weil, Simon. (See Hauser, Leopold, assignor.)
Weiland, Theodore F., Phoenixville, Pa. Mechanism for transmitting power. No. 965,348; July 26; Sp. p. 5080; Gaz. vol. 156; p. 872.
Weiler, Ernst, Berlin, Germany. Pencil-sharpener. No. 963,408; July 5; Sp. p. 897; Gaz. vol. 156; p. 132.
Weiler, Henry J., Indianapolis, Ind. Protective strip for piano tuning-pins, strings, &c. No. 972,420; Oct. 11; Sp. p. 1960; Gaz. vol. 159; p. 344.
Weiler, John C., and G. Kleissler, Newark, N. J. Gravity sash-lock. No. 949,165; Feb. 15; Sp. p. 2910; Gaz. vol. 151; p. 516.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Red to violet wool dye. No. 947,876; Feb. 1; Sp. p. 219; Gaz. vol. 151; p. 35.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Orange-red to violet dye. No. 950,359; Feb. 22; Sp. p. 5451; Gaz. vol. 151; p. 956.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 876,417; Nov. 22; Sp. p. 5173; Gaz. vol. 160; p. 879.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Aurin dye. No. 978,799; Dec. 13; Sp. p. 2974; Gaz. vol. 161; p. 503.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Aurin dyestuff. No. 978,800; Dec. 13; Sp. p. 2975; Gaz. vol. 161; p. 503.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Aurin dye. No. 978,801; Dec. 13; Sp. p. 2975; Gaz. vol. 161; p. 504.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Aurin dye. No. 978,802; Dec. 13; Sp. p. 2976; Gaz. vol. 161; p. 504.
Weiler, Peter. (See Pontius, William H., assignor.)
Weiler, William, Dayton, Ohio. Floor-drain trap. No. 976,108; Nov. 15; Sp. p. 4418; Gaz. vol. 160; p. 749.
Weill, Philippe, New York, N. Y. Hair-net. No. 961,471; June 14; Sp. p. 2534; Gaz. vol. 155; p. 444.
Weilman, Melville S., Cincinnati, Ohio. Advertising device. No. 976,618; Nov. 22; Sp. p. 5599; Gaz. vol. 160; p. 947.
Weimer, Henry, Tampa, Fla. Retouching-desk. No. 960,462; June 7; Sp. p. 438; Gaz. vol. 155; p. 74.
Weinbach, Isidor, and M. Stuhler, Brooklyn, N. Y. Combination pressure-foot and trimming attachment for sewing-machines. No. 947,506; Jan. 25; Sp. p. 5605; Gaz. vol. 150; p. 931.
Weinbeer, Gregor, Nuremberg, Germany, assignor to M. Gärtner, New York, N. Y. Support for the internal molds of hollow castings. No. 964,949; July 19; Sp. p. 4240; Gaz. vol. 156; p. 709.
Weinberg, Fritz, New York, N. Y., assignor of two-thirds to E. Berliner, Washington, D. C. Electrolytic cell. No. 979,906; Dec. 27; Sp. p. 5395; Gaz. vol. 161; p. 932.
Weinberg, Joseph, Duluth, Minn. Stump-splitter. No. 953,162; Mar. 29; Sp. p. 5557; Gaz. vol. 152; p. 1013.
Weinberg, Joseph, Duluth, Minn. Pail-holder. No. 956,557; May 3; Sp. p. 106; Gaz. vol. 154; p. 19.
Weinberg, Robert, *et al.* (See Eytalis, Charles, assignor.)
Weinberg, Siegfried, Berlin, Germany, assignor to M. Zehden, New York, N. Y. Composition of matter adapted for use in the art of color stamping. No. 959,185; May 24; Sp. p. 6014; Gaz. vol. 154; p. 1005.
Weinberger, Henry. (See Tillman, William G., assignor.)
Weindel, Anton, Mülheim-on-the-Rhine, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Hydrosulfite compound and making same. No. 961,391; June 14; Sp. p. 2361; Gaz. vol. 155; p. 417.
Weinel, Frank, Leechburg, Pa. Nut-lock. No. 947,069; Jan. 18; Sp. p. 4581; Gaz. vol. 150; p. 755.
Weiner, Jardo, assignor of one-half to A. Larson and one-half to J. J. Cassidy, Cleveland, Ohio. Combined engine and tool-operating mechanism. No. 950,759; Mar. 1; Sp. p. 639; Gaz. vol. 152; p. 103.
Weingaertner, Ignaz, St. Louis, Mo. Table. No. 976,759; Nov. 22; Sp. p. 5889; Gaz. vol. 160; p. 994.
Weingart, Johan A., New York, N. Y. Picture-card. No. 968,721; Aug. 30; Sp. p. 6171; Gaz. vol. 157; p. 1078.
Weingartner, Henry. (See Krum and Weingartner.)
Weinheim, Emil, New York, N. Y. Reinforced leather and manufacturing the same. No. 965,261; July 26; Sp. p. 4870; Gaz. vol. 156; p. 841.
Weinland, Henry F., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Turbine. No. 951,164; Mar. 8; Sp. p. 1417; Gaz. vol. 152; p. 257.
Weinland, Henry F., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Boiler-tube cleaner. No. 958,202; May 17; Sp. p. 3815; Gaz. vol. 154; p. 645.
Weinland, Henry F., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Motor for driving boiler-tube cleaners. No. 967,693; Aug. 16; Sp. p. 3939; Gaz. vol. 157; p. 676.
Weinland, Henry F., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Strainer. No. 968,822; Aug. 30; Sp. p. 6372; Gaz. vol. 157; p. 1111.
Weinland, Henry F., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaning apparatus. No. 977,241; Nov. 29; Sp. p. 6987; Gaz. vol. 160; p. 1188.
Weinland, Henry F., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 978,085; Dec. 6; Sp. p. 1427; Gaz. vol. 161; p. 230.
Weinland, Henry F., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 978,086; Dec. 6; Sp. p. 1430; Gaz. vol. 161; p. 231.
Weinland, Henry F. and H. G., assignors to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor for driving boiler-tube cleaners. No. 978,088; Dec. 6; Sp. p. 1433; Gaz. vol. 161; p. 231.
Weinland, Henry F. and H. G., assignors to The Lagonda Manufacturing Company, Springfield, Ohio. Turbine for driving boiler-tube cleaners. No. 978,089; Dec. 6; Sp. p. 1436; Gaz. vol. 161; p. 232.
Weinland, Henry F. and H. G., and G. H. Ainge, assignors to The Lagonda Manufacturing Company, Springfield, Ohio. Lubricating device. No. 978,087; Dec. 6; Sp. p. 1431; Gaz. vol. 161; p. 231.
Weinland, Hermon G. (See Weinland and Ainge.)
Weinlander & Jackson. (See Jones, Edward, assignor.)
Weinlig, Otto F., Burg Lede, near Beuel, Germany. Protecting means for masts, poles, or the like. No. 956,656; May 3; Sp. p. 326; Gaz. vol. 154; p. 53.
Weinman, Louis, Atchison, Kans. Barrel-header. No. 969,430; Sept. 6; Sp. p. 593; Gaz. vol. 158; p. 95.
Weinrich, August and C., Worbis, Germany. Pyrotechnic toy. No. 955,486; Apr. 19; Sp. p. 3856; Gaz. vol. 153; p. 679.

Weinrich, August and C., Worbis, Germany. Pyrotechnic toy. No. 955,487; Apr. 19; Sp. p. 3856; Gaz. vol. 153; p. 679.
Weinrich, Clemons. (See Weinrich, August and C.)
Weinrich, Moriz, Yonkers, N. Y. Treating sugar-beets. No. 950,035; Feb. 22; Sp. p. 4815; Gaz. vol. 151; p. 847.
Weinstein, Maurice. (See Haller, Edward, assignor.)
Weinstock, Davis, New York, N. Y. Folding display-case. No. 949,340; Feb. 15; Sp. p. 3276; Gaz. vol. 151; p. 575.
Weinstock, Davis, New York, N. Y. Folding display-case. No. 954,834; Apr. 12; Sp. p. 2495; Gaz. vol. 153; p. 425.
Weinstock, Henry, Marietta, Ohio. Carpet-fastener. No. 959,277; May 24; Sp. p. 6195; Gaz. vol. 154; p. 1035.
Weintraub, Ezechiel, Schenectady, N. Y., assignor to General Electric Company. Purifying tantalum. No. 947,983; Feb. 1; Sp. p. 429; Gaz. vol. 151; p. 68.
Weintz, Jacob, assignor to The Strong, Carlisle & Hammond Company, Cleveland, Ohio. Furnace. No. 959,980; May 31; Sp. p. 7705; Gaz. vol. 154; p. 1298.
Weintz, Jacob, assignor to The Strong, Carlisle & Hammond Co., Cleveland, Ohio. Furnace. No. 960,463; June 7; Sp. p. 440; Gaz. vol. 155; p. 75.
Weinzierl, Joseph T. (See Donnelly, Koessler, and Weinzierl.)
Weir, James G., Glasgow, Scotland. Apparatus for heating or cooling oil or other viscous liquids. No. 979,618; Dec. 27; Sp. p. 4755; Gaz. vol. 161; p. 835.
Weir, Jennie B., Lebanon, Tenn. Ripping and trimming implement. No. 949,669; Feb. 15; Sp. p. 3920; Gaz. vol. 151; p. 683.
Weir, William, Cathcart, Scotland. Steam-condensing plant and air-pump. No. 957,638; May 10; Sp. p. 2417; Gaz. vol. 154; p. 418.
Weirich, Clarence A., Canton, Ohio. Washboard. No. 945,354; Jan. 4; Sp. p. 761; Gaz. vol. 150; p. 117.
Weis, Christian, *et al.* (See Miller, Charles F., assignor.)
Weis, John P., Nyack, N. Y. Automatic design-cutting machine. No. 966,280; Aug. 2; Sp. p. 923; Gaz. vol. 157; p. 148.
Weis, John P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Trimming mechanism for sewing-machines. No. 954,553; Apr. 12; Sp. p. 1825; Gaz. vol. 153; p. 327.
Weis, John P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Feeding mechanism for sewing-machines. No. 960,464; June 7; Sp. p. 442; Gaz. vol. 155; p. 75.
Weis, John P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Differential feeding mechanism for sewing-machines. No. 971,230; Sept. 27; Sp. p. 4458; Gaz. vol. 158; p. 780.
Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Stitch-forming mechanism for sewing-machines. No. 971,229; Sept. 27; Sp. p. 4454; Gaz. vol. 158; p. 780.
Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Looper for sewing-machines. No. 973,900; Oct. 25; Sp. p. 5225; Gaz. vol. 159; p. 906.
Weis, John P., and W. C. Robbins, assignors to Metropolitan Sewing Machine Company, Nyack, N. Y. Work-guide for sewing-machines. No. 954,552; Apr. 12; Sp. p. 1821; Gaz. vol. 153; p. 327.
Weis, John P., and W. C. Robbins, assignors to Metropolitan Sewing Machine Company, Nyack, N. Y. Binding mechanism for sewing-machines. No. 976,964; Nov. 29; Sp. p. 6387; Gaz. vol. 160; p. 1091.
Weis, John P., and L. Krug, assignors to Metropolitan Sewing Machine Company, Nyack, N. Y. Collaret-machine. No. 976,963; Nov. 29; Sp. p. 6378; Gaz. vol. 160; p. 1091.
Weis, Phillip, *et al.* (See Miller, Charles F., assignor.)
Weisberger, Benjamin. (See Ostrander, William H., assignor.)
Weiscopf, Leopold, New York, N. Y. Bottle-rinsing machine. No. 971,231; Sept. 27; Sp. p. 4463; Gaz. vol. 158; p. 781.
Weise, Julius, and F. Rieche, assignors to Rudolph Koepp & Co., Oestrich-on-the-Rhine, Germany. Process and apparatus for utilizing the energy of waste gases. No. 962,108; June 21; Sp. p. 3913; Gaz. vol. 155; p. 682.
Weisel, Joseph M., Rockwood, Pa. Railway-tie. No. 974,728; Nov. 1; Sp. p. 1473; Gaz. vol. 160; p. 227.
Weisell Nut Lock Company. (See Hemsteger, Edward A., assignor.)
Weisent, George J., Lowell, Ohio. Rail-joint. No. 964,349; July 12; Sp. p. 2860; Gaz. vol. 156; p. 472.
Weiser, Frank J. W., assignor to George P. Bent Company, Chicago, Ill. Retard device. No. 976,965; Nov. 29; Sp. p. 6393; Gaz. vol. 160; p. 1092.
Weiser, H. L. (See Turner, George E., assignor.)
Weishaar, Christian. (See Müller, Willnus, and Weishaar.)
Weishaupt, Frederick W. H., Washington, D. C. Bed spring and frame. No. 966,723; Aug. 9; Sp. p. 1905; Gaz. vol. 157; p. 322.
Weiske, Herman H., Wheeling, W. Va. Car-stop. No. 947,068; Jan. 18; Sp. p. 4579; Gaz. vol. 150; p. 755.
Weiskopf, Ivan, Morchenstern, Austria-Hungary. Device for spinning glass. No. 946,179; Jan. 11; Sp. p. 2578; Gaz. vol. 150; p. 428.
Weisnek, Frank, California, Pa. Milk-can lock. No. 967,694; Aug. 16; Sp. p. 3940; Gaz. vol. 157; p. 676.
Weiss, Albert T., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Cabinet-drawer. No. 958,203; May 17; Sp. p. 3817; Gaz. vol. 154; p. 645.
Weiss, Albert T., assignor to Yawman & Erbe Manufacturing Co., Rochester, N. Y. Locking device for sectional cabinets. No. 960,465; June 7; Sp. p. 445; Gaz. vol. 155; p. 75.
Weiss, Alfred H., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone system. No. 953,188; Mar. 29; Sp.p. 5619; Gaz. vol. 152; p. 1021.
Weiss, Alfred H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone-drop. No. 969,818; Sept. 13; Sp. p. 1466; Gaz. vol. 158; p. 253.
Weiss, Alfred H., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Four-party-line ringing-key. No. 971,650; Oct. 4; Sp. p. 289; Gaz. vol. 159; p. 52.
Weiss, Alfred H., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Service-meter system. No. 972,962; Oct. 18; Sp. p. 3209; Gaz. vol. 159; p. 558.
Weiss, Alfred H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Wall set. No. 976,962; Nov. 29; Sp. p. 6375; Gaz. vol. 160; p. 1090.
Weiss, Carl W. (See Sweet and Weiss.)
Weiss, Carl W., New York, N. Y. Burner for liquid fuel. No. 966,628; Aug. 9; Sp. p. 1702; Gaz. vol. 157; p. 291.
Weiss, Carl W., New York, N. Y. Motor. No. 976,236; Nov. 22; Sp. p. 4757; Gaz. vol. 160; p. 815.
Weiss, Cornelius, Brooklyn, N. Y. Cloth-piling machine. No. 957,525; May 10; Sp. p. 2200; Gaz. vol. 154; p. 380.
Weiss, Cornelius, Brooklyn, N. Y. Cloth-piling machine. No. 957,526; May 10; Sp. p. 2201; Gaz. vol. 154; p. 380.
Weiss, Cornelius, Brooklyn, N. Y. Cloth-piling machine. No. 957,588; May 10; Sp. p. 2309; Gaz. vol. 154; p. 401.
Weiss, Eduard, Welden, Germany. Saponaceous compound. No. 954,486; Apr. 12; Sp. p. 1682; Gaz. vol. 153; p. 305.
Weiss, Frank, Cleveland, Ohio. Reversible stop and waste cock. No. 966,281; Aug. 2; Sp. p. 932; Gaz. vol. 157; p. 148.
Weiss, Joseph J., New York, N. Y. Removable saw-handle. No. 965,617; July 26; Sp. p. 5682; Gaz. vol. 156; p. 966.
Weiss, Morris Z. (See Greenwald, Blaustein, and Weiss.)
Weiss, Morris Z. (See Greenwald, Blaustein, Weiss, and Selkovits.)
Weiss, Philip, Vienna, Austria-Hungary. Manufacture of moldings. No. 966,372; Aug. 2; Sp. p. 1094; Gaz. vol. 157; p. 176.
Weissbrod, Luther B., Greenfield, Mass. Purse or bill-folder. No. 975,813; Nov. 15; Sp. p. 3836; Gaz. vol. 160; p. 646.
Weissenborn, Albert B., Appleton, Wis. Loom. No. 978,248; Dec. 13; Sp. p. 1801; Gaz. vol. 161; p. 316.
Weissenthanner, Alfred L., New York, N. Y. Holder for toilet-sticks. No. 975,092; Nov. 8; Sp. p. 2290; Gaz. vol. 160; p. 374.
Weissmann, Gustave, Paris, France. Illuminating-body. No. 960,466; June 7; Sp. p. 447; Gaz. vol. 155; p. 76.
Weithas, Gustav. (See Montgomery and Weithas.)
Weitzel, Henry C., Baltimore, Md. Automatic stop and waste for outside hoppers. No. 956,008; Apr. 26; Sp. p. 5020; Gaz. vol. 153; p. 888.
Weitzel, Jacob F., assignor to F. O. Schoedinger, Columbus, Ohio. Metallic window and sash frame. No. 964,590; July 19; Sp. p. 3418; Gaz. vol. 156; p. 584.
Weiwers, Louis, Waubay, S. D. Combined mop head and wringer. No. 952,551; Mar. 22; Sp. p. 4241; Gaz. vol. 152; p. 778.
Weixler, Mathias, Louisville, Ky. Belt-fastener. No. 965,777; July 26; Sp. p. 6006; Gaz. vol. 156; p. 1020.
Weixler, Mathias, Louisville, Ky. Belt-fastener. No. 965,778; July 26; Sp. p. 6007; Gaz. vol. 156; p. 1021.
Welborn, John S., High Point, N. C. Flushing mechanism for closet-tanks. No. 945,206; Jan. 4; Sp. p. 414; Gaz. vol. 150; p. 68.
Welborn, John S., High Point, N. C. Float-operated valve. No. 945,254; Jan. 4; Sp. p. 519; Gaz. vol. 150; p. 85.
Welborn, John S., High Point, N. C. Flushing mechanism for closet-tanks. No. 970,866; Sept. 20; Sp. p. 3706; Gaz. vol. 158; p. 633.
Welch, Charles W., and O. G. Pfleagor, Des Moines, Iowa. Car-bridge. No. 951,518; Mar. 8; Sp. p. 2148; Gaz. vol. 152; p. 373.
Welch, Chester B. (See Schulz, Edward F., assignor.)
Welch, Clarence R., Butte, Mont. Controlling apparatus for hoisting-engines. No. 965,779; July 26; Sp. p. 6008; Gaz. vol. 156; p. 1021.
Welch, Edward J., assignor to Union Screen Plate Company, Fitchburg, Mass. Screen-plate holder. No. 955,622; Apr. 19; Sp. p. 4161; Gaz. vol. 153; p. 724.
Welch, Marion F., Hollis, Kans. Fire-escape. No. 957,589; May 10; Sp. p. 2311; Gaz. vol. 154; p. 401.
Welch, Marion F., Hollis, Kans. Fire-escape. No. 963,409; July 5; Sp. p. 899; Gaz. vol. 156; p. 132.
Welch, Marion F., Hollis, Kans. Signal. No. 965,426; July 26; Sp. p. 5240; Gaz. vol. 156; p. 897.
Welch, Marion F., Hollis, Kans. Fire-escape. No. 968,615; Aug. 30; Sp. p. 5910; Gaz. vol. 157; p. 1042.
Welch, William H., Cleveland, Ohio. Power-hammer. No. 955,623; Apr. 19; Sp. p. 4163; Gaz. vol. 153; p. 725.

Alphabetical list of patentees—Continued.

Welch, William J., Hornsey, London, England. Mounting of saddles upon bicycles. No. 960,467; June 7; Sp. p. 449; Gaz. vol. 155; p. 76.
Welch, William W., Jackson, Miss., assignor of one-half to R. H. McCulloch, Beebe, Ark. Trace-buckle. No. 961,823; June 21; Sp. p. 3283; Gaz. vol. 155; p. 585.
Welcome, Earnest T., Pittsburg, Pa. Means for deodorizing and drying night-soil and the like. No. 950,977; Mar. 1; Sp. p. 1075; Gaz. vol. 152; p. 172.
Welcome, Solon B., Los Angeles, Cal. Wrist-pin. No. 968,213; Aug. 23; Sp. p. 5080; Gaz. vol. 157; p. 875.
Welded Steel Wheel Company. (See Lachman, Maurice, assignor.)
Weldon, Edwin J., Torrington, Conn. Combined fishpole-handle and weighing-scale. No. 952,552; Mar. 22; Sp. p. 4242; Gaz. vol. 152; p. 778.
Welfelt, George W., Chicago, Ill. Grain-sieve. No. 952,288; Mar. 15; Sp. p. 3693; Gaz. vol. 152; p. 660.
Welford, George H. (See Welford, Robert and G. H.)
Welford, Robert and G. H., North Hylton, England. Spring-wheel. No. 972,136; Oct. 4; Sp. p. 1342; Gaz. vol. 159; p. 226.
Welham, Alfred L. (See Sampson and Welham.)
Welin, Axel, London, England, assignor to Welin Davit and Lane & De Groot Co. Davit for hoisting and lowering boats. No. 958,340; May 17; Sp. p. 4250; Gaz. vol. 154; p. 693.
Welin Davit and Lane & De Groot Company. (See Sivard, Einar L. M., assignor.)
Welin Davit and Lane & De Groot Co. (See Welin, Axel, assignor.)
Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Pedal mechanism for musical instruments. No. 945,882; Jan. 11; Sp. p. 1951; Gaz. vol. 150; p. 325.
Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Automatic musical instrument. No. 945,883; Jan. 11; Sp. p. 1953; Gaz. vol. 150; p. 325.
Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Automatic musical instrument. No. 945,887; Jan. 11; Sp. p. 1961; Gaz. vol. 150; p. 327.
Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Tracker-board for automatic musical instruments. No. 945,996; Jan. 11; Sp. p. 2203; Gaz. vol. 150; p. 366.
Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Metallic take-up spool. No. 971,866; Oct. 4; Sp. p. 760; Gaz. vol. 159; p. 132.
Welin, Peter, Newcastle, assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Valve for pneumatically-controlled musical instruments. No. 945,884; Jan. 11; Sp. p. 1954; Gaz. vol. 150; p. 326.
Welin, Peter, Newcastle, assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Controlling-lever and fall-board for automatic musical instruments. No. 945,886; Jan. 11; Sp. p. 1959; Gaz. vol. 150; p. 327.
Welin, Peter, Newcastle, assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Expression mechanism for pianos. No. 945,888; Jan. 11; Sp. p. 1965; Gaz. vol. 150; p. 327.
Welin, Peter, Newcastle, assignor, by mesne assignments, to The Krell Auto-Grand Piano Co. of America., Connersville, Ind. Automatic player for musical instruments. No. 957,590; May 10; Sp. p. 2312; Gaz. vol. 154; p. 402.
Welin, Peter, Newcastle, assignor, by mesne assignments, to The Krell Auto-Grand Piano Co. of America, Connersville, Ind. Pedal mechanism for musical instruments. No. 961,824; June 21; Sp. p. 3284; Gaz. vol. 155; p. 586.
Welin, Peter, Newcastle, assignor, by mesne assignments, to The Krell Auto-Grand Piano Co. of America, Connersville, Ind. Music-spool. No. 962,685; June 28; Sp. p. 5164; Gaz. vol. 155; p. 903.
Welin, Peter, assignor of one-half to Simplex Piano Player Company, Worcester, Mass., and one-half to L. A. Krell, Newcastle, Ind. Automatic playing attachment for musical instruments. No. 945,885; Jan. 11; Sp. p. 1956; Gaz. vol. 150; p. 326.
Welker, Fredrick, Williamsport, Pa, assignor to American Wood Working Machinery Co., Rochester, N. Y. Variable-speed gearing. No. 955,488; Apr. 19; Sp. p. 3857; Gaz. vol. 153; p. 679.
Welker, Fredrick, Williamsport, Pa., assignor to American Wood Working Machinery Co., Rochester, N. Y. Grinding-machine. No. 977,060; Nov. 29; Sp. p. 6583; Gaz. vol. 160; p. 1123.
Wellenkamp, Hermann, Kiel, Germany. Ship-model testing. No. 978,090; Dec. 6; Sp. p. 1439; Gaz. vol. 161; p. 232.
Weller, Frank D., Toledo, Ohio. Paper-hanger's board. No. 960,468; June 7; Sp. p. 449; Gaz. vol. 155; p. 76.
Weller, Frank D., Toledo, Ohio. Paper-hanger's board or the like. No. 960,469; June 7; Sp. p. 451; Gaz. vol. 155; p. 77.
Weller, Giles W., Kimberly, Nev. Gas-engine. No. 951,353; Mar. 8; Sp. p. 1811; Gaz. vol. 152; p. 317.
Weller, Henry. (See Nielsen and Weller.)
Weller, John N., Knoxville, Tenn. Gate-latch. No. 950,063; Feb. 22; Sp. p. 4863; Gaz. vol. 151; p. 855.
Weller, Lorania M., *et al.* (See Farley and McDonald, assignors.)
Weller Manufacturing Company. (See Talen, Maurice W., assignor.)
Welles, Edward B., Asheville, N. C. Pencil-sharpener. No. 965,262; July 26; Sp. p. 4873; Gaz. vol. 156; p. 842.
Welles, Edward B., Asheville, N. C. Pencil-sharpener. No. 965,263; July 26; Sp. p. 4876; Gaz. vol. 156; p. 842.
Welles, Richard H., assignor to The Badger Brass Mfg. Co., Kenosha, Wis. Locking mechanism for lamps and analogous structures. No. 961,706; June 14; Sp. p. 3018; Gaz. vol. 155; p. 522.
Welles, Richard H., assignor to The Badger Brass Mfg. Co., Kenosha, Wis. Headlight. No. 971,709; Oct. 4; Sp. p. 412; Gaz. vol. 159; p. 72.
Welling, George. (See Michaels and Welling.)
Wellington, Quincy W., *et al.* (See Ferguson, Lyman, assignor.)
Wellman, Calvin W., South Boardman, Mich. Fluid-heating apparatus. No. 949,512; Feb. 15; Sp. p. 3631; Gaz. vol. 151; p. 632.
Wellman, Calvin W., South Boardman, Mich., assignor to H. M. Wellman, Oshkosh, Wis. Turbine. No. 976,109; Nov. 15; Sp. p. 4419; Gaz. vol. 160; p. 749.
Wellman Company. (See Stickney, Allison M., assignor.)
Wellman, Harlan P., Ashland, Ky. Crank and yoke connection. No. 968,437; Aug. 23; Sp. p. 5527; Gaz. vol. 157; p. 954.
Wellman, Hattie M. (See Wellman, Calvin W., assignor.)
Wellman, Samuel G., Corry, Pa. Sash-lock. No. 959,981; May 31; Sp. p. 7707; Gaz. vol. 154; p. 1299.
Wellman-Seaver-Morgan Company, The. (See Hulett, George H., assignor.)
Wellman, Seth A., Swaledale, Iowa. Collapsible core. No. 955,235; Apr. 19; Sp. p. 3328; Gaz. vol. 153; p. 594.
Wells, Alpherd P., East Stone Gap, Va. Fruit-picker. No. 978,683; Dec. 13; Sp. p. 2742; Gaz. vol. 161; p. 467.
Wells, Arthur, New York, N. Y. Device for removing the kernels of corn. No. 961,825; June 21; Sp. p. 3286; Gaz. vol. 155; p. 586.
Wells Brothers Company. (See Wells, Frank O., assignor.)
Wells, Charles G., Rockyhill, Conn. Tobacco-lath. No. 965,055; July 19; Sp. p. 4459; Gaz. vol. 156; p. 742.
Wells, Charles G., Rockyhill, Conn. Tobacco-stringing machine. No. 971,580; Oct. 4; Sp. p. 147; Gaz. vol. 159; p. 27.
Wells, Edmund P., Chapham, London, England, assignor to Unit Concrete Steel Frame Company, Camden, N. J. Reinforced concrete construction. No. 955,236; Apr. 19; Sp. p. 3329; Gaz. vol. 153; p. 594.
Wells, Ella, Shelbyville, Ky. Butter-worker. No. 957,723; May 10; Sp. p. 2590; Gaz. vol. 154; p. 448.
Wells, Eugene C., assignor of one-half to G. H. Dietz and one-half to E. L. Wright, Stockton, Cal. Tweezers. No. 950,499; Mar. 1; Sp. p. 86; Gaz. vol. 152; p. 14.
Wells, Frank O., assignor to Wells Brothers Company, Greenfield, Mass. Cutter-head. No. 947,319; Jan. 25; Sp. p. 5143; Gaz. vol. 150; p. 868.
Wells, Frank O., assignor to Wells Brothers Company, Greenfield, Mass. Tap-wrench. No. 965,970; Aug. 2; Sp. p. 256; Gaz. vol. 157; p. 43.
Wells, Frederic E., Greenfield, Mass. Die-stock. No. 962,184; June 21; Sp. p. 4090; Gaz. vol. 155; p. 710.
Wells, George E., National Military Home, Ohio. Projectile. No. 962,482; June 28; Sp. p. 4736; Gaz. vol. 155; p. 835.
Wells, George E., Dayton, Ohio. Smoke-consuming furnace. No. 974,322; Nov. 1; Sp. p. 565; Gaz. vol. 160; p. 82.
Wells, George T., Wichita, Kans. Plant-protector. No. 963,099; July 5; Sp. p. 169; Gaz. vol. 156; p. 25.
Wells, George W., Southbridge, Mass. Eyeglass-spring. No. 946,748; Jan. 18; Sp. p. 3873; Gaz. vol. 150; p. 647.
Wells, Harold S. (See Fortune and Wells.)
Wells, Harold S., and J. R. Fortune, assignors to Murphy Iron Works, Detroit, Mich. Cleavage-bar for furnaces. No. 966,724; Aug. 9; Sp. p. 1907; Gaz. vol. 157; p. 322.
Wells, Harry E., Gordon, Nebr. Potato-cutter. No. 947,362; Jan. 25; Sp. p. 5245; Gaz. vol. 150; p. 883.
Wells, Harvey J., Elkhart, Ind. Friction-clutch. No. 967,094; Aug. 9; Sp. p. 2711; Gaz. vol. 157; p. 446.
Wells, Henry W., Clements, Cal. Line-supporter. No. 948,002; Feb. 1; Sp. p. 463; Gaz. vol. 151; p. 75.
Wells, Jewell W., Washington, D. C. Attachment for drawing-boards. No. 976,019; Nov. 15; Sp. p. 4233; Gaz. vol. 160; p. 717.
Wells, Joel C., Southbridge, Mass. Finger-piece eyeglasses. No. 946,926; Jan. 18; Sp. p. 4315; Gaz. vol. 150; p. 708.
Wells, Joel C., Southbridge, Mass. Eyeglasses. No. 969,819; Sept. 13; Sp. p. 1468; Gaz. vol. 158; p. 254.
Wells, John W., Everett, Mass. Drill-holder. No. 969,228; Sept. 6; Sp. p. 184; Gaz. vol. 158; p. 30.

Wells, Joseph F., Pinkstaff, Ill. Gas cut-off. No. 962,280; June 21; Sp. p. 4289; Gaz. vol. 155; p. 741.
Wells, Myron E., Massillon, Ohio. Extensible connection. No. 959,411; May 24; Sp. p. 6447; Gaz. vol. 154; p. 1079.
Wells, Thomas H., Toronto, Ontario, Canada. Adjustable chaplet. No. 974,218; Nov. 1; Sp. p. 257; Gaz. vol. 160; p. 43.
Wells, William J., Decatur, Ill. Apparatus for extracting oils. No. 954,660; Apr. 12; Sp. p. 2072; Gaz. vol. 153; p. 364.
Wells, Willie, Lake Charles, La. Scaffolding. No. 959,278; May 24; Sp. p. 6196; Gaz. vol. 154; p. 1035.
Wels, Franz. (See Etrich and Wels.)
Welsbach, Carl A. von, Vienna, Austria-Hungary, assignor to Welsbach Light Company, Gloucester City, N. J. Manufacture of electric filaments. No. 976,526; Nov. 22; Sp. p. 5414; Gaz. vol. 160; p. 915.
Welsbach, Carl A. von, Vienna, Austria-Hungary, assignor to Welsbach Light Company, Gloucester City, N. J. Manufacture of electric filaments. No. 976,527; Nov. 22; Sp. p. 5418; Gaz. vol. 160; p. 915.
Welsbach, Carl A. von, Vienna, Austria-Hungary, assignor to Welsbach Light Company, Gloucester City, N. J. Manufacture of electric filaments. No. 976,528; Nov. 22; Sp. p. 5420; Gaz. vol. 160; p. 915.
Welsbach, Carl A. von, Vienna, Austria-Hungary, assignor to Welsbach Light Company, Gloucester City, N. J. Manufacture of electric filaments. No. 976,616; Nov. 22; Sp. p. 5596; Gaz. vol. 160; p. 946.
Welsbach, Carl A. von, Vienna, assignor to Treibacher Chemische Werke Gesellschaft m. b. H., Treibach, Austria-Hungary. Pyrophoric mass. No. 976,760; Nov. 22; Sp. p. 5890; Gaz. vol. 160; p. 995.
Welsbach Light Company. (See Litle, Thomas J., Jr., assignor.)
Welsbach Light Company. (See Welsbach, Carl A. von, assignor.)
Welsh, Andrew A., Gananoque, Ontario, Canada. Amusement apparatus. No. 956,243; Apr. 26; Sp. p. 5556; Gaz. vol. 153; p. 968.
Welsh, Archer, Bellmor, N. J. Machine for sowing seed. No. 971,331; Sept. 27; Sp. p. 4644; Gaz. vol. 158; p. 812.
Welsh, George S., and Z. H. Long, Wilkes-Barre, Pa. Power-transmission device. No. 967,277; Aug. 16; Sp. p. 3092; Gaz. vol. 157; p. 535.
Welsh, John, Green Bay, Wis. Cabinet and paper therefor. No. 965,780; July 26; Sp. p. 6011; Gaz. vol. 156; p. 1021.
Welsh, Lester L., Emporium, Pa. Slide-carrier for magic lanterns. No. 964,350; July 12; Sp. p. 2862; Gaz. vol. 156; p. 472.
Welsh, Louis E., assignor to American Concrete Piling Company, Philadelphia, Pa. Concrete pile and making the same. No. 950,360; Feb. 22; Sp. p. 5452; Gaz. vol. 151; p. 956.
Welsh, Louis E., assignor to American Concrete Piling Company, Philadelphia, Pa. Pile. No. 951,668; Mar. 8; Sp. p. 2450; Gaz. vol. 152; p. 424.
Welsh, Louis E., assignor to American Concrete Piling Company, Philadelphia, Pa. Pile. No. 955,729; Apr. 19; Sp. p. 4411; Gaz. vol. 153; p. 761.
Welsh, Louis E., assignor to American Concrete Piling Company, Philadelphia, Pa. Pile and means for driving the same. No. 975,487; Nov. 15; Sp. p. 3137; Gaz. vol. 160; p. 536.
Welsh, Louis E., assignor to American Concrete Piling Company, Philadelphia, Pa. Pile. No. 975,488; Nov. 15; Sp. p. 3140; Gaz. vol. 160; p. 536.
Welsh, Louis E., assignor to American Concrete Piling Company, Philadelphia, Pa. Pile. No. 976,324; Nov. 22; Sp. p. 4957; Gaz. vol. 160; p. 845.
Welsh, Morris, Quincy, assignor of one-half to P. R. Glass, Boston, Mass. Time-limit annunciator. No. 961,276; June 14; Sp. p. 2110; Gaz. vol. 155; p. 378.
Welsh, William, and W. Purvis, Glasgow, Scotland. Resilient wheel. No. 964,351; July 12; Sp. p. 2863; Gaz. vol. 156; p. 472.
Welshans, Joseph L., Chicago, Ill. Truck for carrying radiators. No. 963,410; July 5; Sp. p. 900; Gaz. vol. 156; p. 133.
Welte, Edwin E., New York, N. Y. Automatic player-piano. No. 946,297; Jan. 11; Sp. p. 2832; Gaz. vol. 150; p. 471.
Welte, Edwin E., Freiburg, Germany, assignor to M. Welte & Söhne, New York, N. Y. Automatic winding attachment for mechanical musical instruments. No. 962,871; June 28; Sp. p. 5549; Gaz. vol. 155; p. 971.
Welte & Söhne, M. (See Welte, Edwin E., assignor.)
Welton, Dante J., Columbus, Ohio. Fender for automobiles. No. 955,624; Apr. 19; Sp. p. 4164; Gaz. vol. 153; p. 725.
Welty, Charles J., North Lima, Ohio. Machine for cleaning sand and gravel. No. 970,584; Sept. 20; Sp. p. 3070; Gaz. vol. 158; p. 535.
Welty, John, Meyers Falls, Wash. Chain-tightener. No. 952,773; Mar. 22; Sp. p. 4739; Gaz. vol. 152; p. 854.
Weman, Klas, Buffalo, assignor to Ericsson Manufacturing Company, Tonawanda, N. Y. Telephone-switchboard key. No. 979,616; Dec. 27; Sp. p. 4752; Gaz. vol. 161; p. 834.
Wemlinger, Julius R., New York, N. Y. Shoring. No. 975,665; Nov. 15; Sp. p. 3554; Gaz. vol. 160; p. 598.
Wende, Hermann A. (See Hanrahan and Wende.)
Wendel, Henry P., Niagara Falls, N. Y. Detachable horseshoe. No. 970,585; Sept. 20; Sp. p. 3072; Gaz. vol. 158; p. 535.
Wendland, Robert G. (See Conroy, Eliza D., assignor.)
Wendler, Julius, Berlin, Germany. Door for hotel-entrances and the like. No. 969,582; Sept. 6; Sp. p. 923; Gaz. vol. 158; p. 147.
Wendler, Oscar, assignor to Dr. N. Gerbers Co. M. B. H., Leipzig, Germany. Process for the determination of fat in milk and other dairy products. No. 961,564; June 14; Sp. p. 2743; Gaz. vol. 155; p. 475.
Wendling, George X., San Francisco, Cal. Pile. No. 968,214; Aug. 23; Sp. p. 5081; Gaz. vol. 157; p. 875.
Wendlinger, Arthur, Richmond, Va. Door-check. No. 952,854; Mar. 22; Sp. p. 4903; Gaz. vol. 152; p. 883.
Wendt, Ernest F., Herington, Kans. Scaffold attachment. No. 945,428; Jan. 4; Sp. p. 916; Gaz. vol. 150; p. 143.
Wendt, Reinhard, Muskegon, Mich. Combined shade, curtain, and drapery support for rollers. No. 973,829; Oct. 25; Sp. p. 5066; Gaz. vol. 159; p. 881.
Wengelin, Johan V., Gottenborg, Sweden. Controlling device for gas-burners. No. 957,591; May 10; Sp. p. 2314; Gaz. vol. 154; p. 402.
Wenger, Milton, New Holland, Pa. Nail-extractor. No. 952,289; Mar. 15; Sp. p. 3694; Gaz. vol. 152; p. 660.
Wenger, Samuel M., Terre Hill, assignor to J. M. Witmer, Lancaster, Pa. Lifting-jack. No. 968,722; Aug. 30; Sp. p. 6173; Gaz. vol. 157; p. 1079.
Wenier, John D., Dodge, Wis. Brake. No. 953,878; Apr. 5; Sp. p. 388; Gaz. vol. 153; p. 70.
Weniger, Otto, Philadelphia, Pa. Advertising-wagon. No. 945,652; Jan. 4; Sp. p. 1385; Gaz. vol. 150; p. 216.
Wenink, Arthur B., Milwaukee, Wis. Register. No. 967,095; Aug. 9; Sp. p. 2713; Gaz. vol. 157; p. 446.
Wenk, Wilhelm, Olten, Switzerland, assignor to "Perfect" A. G. für Maschinenbau Basel at Basle. Whisking-machine. No. 966,501; Aug. 9; Sp. p. 1411; Gaz. vol. 157; p. 247.
Wenke, Frank. (See Frost, John B., assignor.)
Wenkel, Max, Schlottwitz, assignor to C. Gericke, Potsdam, near Berlin, Germany. High-speed compression and vacuum pump. No. 947,536; Jan. 25; Sp. p. 5661; Gaz. vol. 150; p. 940.
Wenman, Joseph E., New Philadelphia, Ohio. Receptacle-lifter. No. 947,049; Jan. 18; Sp. p. 4539; Gaz. vol. 150; p. 748.
Wenners, Frank W., *et al.* (See Lenzi, Frank, assignor.)
Wenners, George A., *et al.* (See Lenzi, Frank, assignor.)
Wenning, Jean C. A., assignor to Societe Alsacienne de Constructions Mecaniques, Mülhausen, Germany. Weft-replenishing mechanism for looms. No. 959,036; May 24; Sp. p. 5685; Gaz. vol. 154; p. 955.
Wenskÿ, Karl. (See Gasche and Wenskÿ.)
Wensley, William, Seattle, Wash. Making solid mast-bands. No. 979,403; Dec. 20; Sp. p. 4282; Gaz. vol. 161; p. 736.
Wente, Hugo O. (See Brinkmann and Wente.)
Wentling, Jacob E. (See Mauck and Wentling.)
Wentworth, Barton M., assignor to G. A. Bodwell, Somersworth, N. H. Sleigh. No. 963,015; June 28; Sp. p. 5809; Gaz. vol. 155; p. 1017.
Wentworth, Henry A., Newton, assignor to Huff Electrostatic Separator Company, Boston, Mass. Apparatus for electrical separation. No. 960,470; June 7; Sp. p. 452; Gaz. vol. 155; p. 77.
Wentworth, Henry A., Newton, assignor to Huff Electrostatic Separator Company, Boston, Mass. Process of separation. No. 980,035; Dec. 27; Sp. p. 5659; Gaz. vol. 161; p. 975.
Wentworth, Henry A., Lynn, assignor to Huff Electrostatic Separator Company, Boston, Mass. Electrical separation. No. 960,001; Sept. 13; Sp. p. 1857; Gaz. vol. 158; p. 316.
Wentworth, Henry A., Lynn, assignor to Huff Electrostatic Separator Company, Boston, Mass. Process of separation. No. 970,002; Sept. 13; Sp. p. 1862; Gaz. vol. 158; p. 317.
Wentworth, Herbert A., Bangor, Me. Guarded lacing-hook for shoes, gloves, &c. No. 963,674; July 5; Sp. p. 1413; Gaz. vol. 156; p. 221.
Wentz, Henry J., Tripp, S. D. Door-closer. No. 957,282; May 10; Sp. p. 1702; Gaz. vol. 154; p. 298.
Wentz, S. J., *et al.* (See Sexton, James L., assignor.)
Wentzell, William A., New Albany, Ind. Beer-dispensing apparatus. No. 946,477; Jan. 11; Sp. p. 3309; Gaz. vol. 150; p. 532.
Weppner, William F., assignor to Fort Pitt Bedding Company, Pittsburg, Pa. Bed-spring-supporting frame. No. 971,867; Oct. 4; Sp. p. 762; Gaz. vol. 159; p. 132.
Werden, Edward W., and S. L. W. Coe, New York, N. Y. Vending-machine. No. 964,591; July 19; Sp. p. 3421; Gaz. vol. 156; p. 584.
Werden, Henrietta, Mount Vernon, assignor of one-half to S. L. Coe, New York, N. Y. Vending-machine. No. 961,277; June 14; Sp. p. 2115; Gaz. vol. 155; p. 379.
Werden, Henrietta T. (See Coe and Werden.)

Alphabetical list of patentees—Continued.

Werlé, Nikolaus, Stuttgart, Germany, assignor of one-half to A. Salcher, Innsbruck, Austria-Hungary. Controlling apparatus. No. 974,006; Oct. 25; Sp. p. 5437; Gaz. vol. 159; p. 942.
Werner, Amelia L., Cincinnati, Ohio. Ventilating system. No. 971,161; Sept. 27; Sp. p. 4303; Gaz. vol. 158; p. 757.
Werner, Christian H., New York, N. Y. Sheet-metal cap. No. 975,914; Nov. 15; Sp. p. 4048; Gaz. vol. 160; p. 682.
Werner, Fridolin, Sr., Cibolo, Tex. Stalk-cutter. No. 974,219; Nov. 1; Sp. p. 258; Gaz. vol. 160; p. 43.
Werner, Harvey N., York, Pa. Folding woven-wire spring. No. 975,007; Nov. 8; Sp. p. 2123; Gaz. vol. 160; p. 346.
Werner, John, Rochester, N. Y. Candy-molding machine. No. 959,664; May 31; Sp. p. 6991; Gaz. vol. 154; p. 1190.
Werner, John, Rochester, N. Y. Candy-casting machine. No. 959,665; May 31; Sp. p. 7008; Gaz. vol. 154; p. 1190.
Werner, John A., assignor to The National Cash Register Company, Dayton, Ohio. Cash and autographic register. No. 975,489; Nov. 15; Sp. p. 3142; Gaz. vol. 160; p. 537.
Werner, John E., Bangor, Pa. Friction-clutch. No. 953,727; Apr. 5; Sp. p. 89; Gaz. vol. 153; p. 18.
Werner, John M., Hoboken, N. J. Muffler for internal-combustion engines. No. 971,424; Sept. 27; Sp. p. 4813; Gaz. vol. 158; p. 843.
Werner, Otto, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drop-hammer. No. 947,657; Jan. 25; Sp. p. 5914; Gaz. vol. 150; p. 982.
Werner, Thomas O., Bangor, Pa. Hoisting apparatus. No. 958,049; May 17; Sp. p. 3462; Gaz. vol. 154; p. 592.
Wersel, Frank B., Jr., Mount Lookout, Ohio. Automatic reclining-chair back. No. 960,607; June 7; Sp. p. 746; Gaz. vol. 155; p. 123.
Wert, Cyrus S., Kendallville, Ind. Mold. No. 965,349; July 26; Sp. p. 5081; Gaz. vol. 156; p. 872.
Wert, Cyrus S., Kendallville, Ind. Brick-machine. No. 965,350; July 26; Sp. p. 5082; Gaz. vol. 156; p. 873.
Wertenbaker, Milton T., Parkersburg, W. Va. Band-saw wheel. No. 966,502; Aug. 9; Sp. p. 1413; Gaz. vol. 157; p. 247.
Werth, Federico, Milan, Italy. Apparatus for galvanizing metal tubes, rods, &c. No. 970,149; Sept. 13; Sp. p. 2145; Gaz. vol. 158; p. 366.
Wertheim, Anne L., London, England. Self-leveling cot, bunk, couch, and the like for use on shipboard. No. 963,966; July 12; Sp. p. 2087; Gaz. vol. 156; p. 341.
Wertheim, Anne L., London, England. Self-leveling cot and the like for ships. No. 967,278; Aug. 16; Sp. p. 3094; Gaz. vol. 157; p. 536.
Wertheimer, Louis. (See Schlesinger, Adolph, assignor.)
Werts, David E., Olympia, Wash. Rule. No. 978,525; Dec. 13; Sp. p. 2393; Gaz. vol. 161; p. 412.
Wertz, Harvey C., assignor of one-half to J. H. Greshner, Ashland, Ohio. Bracket for scaffolds. No. 971,710; Oct. 4; Sp. p. 415; Gaz. vol. 159; p. 72.
Wertz, John A., Canton, Ohio. Gas-heated sad iron. No. 966,144; Aug. 2; Sp. p. 620; Gaz. vol. 157; p. 102.
Wescher, Max. (See Fischer and Wescher.)
Wescott, C. R., *et al.* (See Williams, Walter S., assignor.)
Wesener, John A., Chicago, Ill. Applying flour-bleaches. No. 951,468; Mar. 8; Sp. p. 2057; Gaz. vol. 152; p. 356.
Wesener, John A., Chicago, Ill. Apparatus for storing, diluting, and applying bleaching agents. No. 954,835; Apr. 12; Sp. p. 2497; Gaz. vol. 153; p. 425.
Weser, John A., New York, N. Y. Automatic player. No. 956,558; May 3; Sp. p. 106; Gaz. vol. 154; p. 20.
Weser, John A., New York, N. Y. Automatic player. No. 965,264; July 26; Sp. p. 4878; Gaz. vol. 156; p. 842.
Wesley, Joseph J., Hackensack, N. J. Visual indicator for key-operated switches. No. 975,490; Nov. 15; Sp. p. 3144; Gaz. vol. 160; p. 537.
Wesley, William J. (See Current and Wesley.)
Wessel, Joseph F., St. Louis, Mo. Rail-joint. No. 955,028; Apr. 12; Sp. p. 2907; Gaz. vol. 153; p. 492.
Wessel, Karl, St. Paul, Minn. Machine for making grass twine. No. 945,653; Jan. 4; Sp. p. 1387; Gaz. vol. 150; p. 216.
Wessel, Karl, St. Paul, Minn. Grass-crimping machine. No. 951,863; Mar. 15; Sp. p. 2856; Gaz. vol. 152; p. 520.
Wessel, Louis, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Ball-and-socket joint. No. 978,091; Dec. 6; Sp. p. 1442; Gaz. vol. 161; p. 233.
Wessels, Charles. (See Haye and Wessels.)
Wessels, Heye J., German Valley, Ill. Railway-tie. No. 972,303; Oct. 11; Sp. p. 1725; Gaz. vol. 159; p. 302.
Wesser, Paul, New York, N. Y. Coin-operated newspaper-vending machine. No. 953,451; Mar. 29; Sp. p. 6185; Gaz. vol. 152; p. 1109.
Wesson, Joseph H., Springfield, Mass. Projectile. No. 959,037; May 24; Sp. p. 5689; Gaz. vol. 154; p. 956.
Wesson, Joseph H., Springfield, Mass. Safety device for revolvers. No. 961,188; June 14; Sp. p. 1913; Gaz. vol. 155; p. 347.
Wesson, Joseph H., Springfield, Mass. Safety device for revolvers. No. 961,189; June 14; Sp. p. 1914; Gaz. vol. 155; p. 347.
Wesson, Joseph H., Springfield, Mass. Safety-stop for automatic pistols. No. 978,092; Dec. 6; Sp. p. 1443; Gaz. vol. 161; p. 233.
Wesson, Joseph H., Springfield, Mass. Firearm. No. 978,415; Dec. 13; Sp. p. 2159; Gaz. vol. 161; p. 375.
West, Allen, Westminster, London, England. Electrical fuse. No. 972,963; Oct. 18; Sp. p. 3214; Gaz. vol. 159; p. 559.
West, Arthur. (See Richardson and West.)
West, Augustus A., New York, N. Y. Can-opener. No. 964,461; July 12; Sp. p. 3079; Gaz. vol. 156; p. 506.
West, C. E., *et al.* (See Fox, Levi W., assignor.)
West, Charles W., assignor to The Electro-Curo Company, Denver, Colo. Electric insole. No. 974,220; Nov. 1; Sp. p. 260; Gaz. vol. 160; p. 43.
West, Charlie E., Jr., Hopkinsville, Ky. Sound recording and reproducing machine. No. 956,460; Apr. 26; Sp. p. 6012; Gaz. vol. 153; p. 1043.
West Disinfecting Company. (See Sholes, Zalmon G., assignor.)
West Disinfecting Company. (See Walz, Charles J., assignor.)
West, Frank H., Baltimore, Md. Carpet-fastener. No. 950,606; Mar. 1; Sp. p. 301; Gaz. vol. 152; p. 49.
West, George M., Lamont, Ark. Gate. No. 969,678; Sept. 6; Sp. p. 1118; Gaz. vol. 158; p. 180.
West, Glen F., Colby, Kans. Medicated poultry-roost. No. 978,526; Dec. 13; Sp. p. 2395; Gaz. vol. 161; p. 412.
West, Harry H., Plymouth, Pa. Striping-pattern device for knitting-machines. No. 952,774; Mar. 22; Sp. p. 4740; Gaz. vol. 152; p. 854.
West, Harry H., Plymouth, Pa. Circular-knitting machine. No. 953,248; Mar. 29; Sp. p. 5742; Gaz. vol. 152; p. 1041.
West, Harry H., Plymouth, Pa. Yarn-changer for circular-knitting machines. No. 965,351; July 26; Sp. p. 5085; Gaz. vol. 156; p. 873.
West, Hosea E., Wills Point, Tex. Roofing construction. No. 950,085; Feb. 22; Sp. p. 4910; Gaz. vol. 151; p. 863.
West, John B., Syracuse, N. Y. Bond-tester. No. 957,020; May 3; Sp. p. 1130; Gaz. vol. 154; p. 178.
West, John T., Bowling Green, Ky. Railway-track-rail holder and brace. No. 980,036; Dec. 27; Sp. p. 5662; Gaz. vol. 161; p. 975.
West, Junius B. (See Evans and West.)
West, Kirke, assignor to United States Graphotype Company, New York, N. Y. Apparatus for casting molten material. No. 964,722; July 19; Sp. p. 3787; Gaz. vol. 156; p. 630.
West, Lee, Ironton, Ohio. Rock-drilling machine. No. 953,651; Mar. 29; Sp. p. 6606; Gaz. vol. 152; p. 1179.
West, Mansfield M., Cleveland, Ohio. Footwear. No. 960,748; June 7; Sp. p. 1028; Gaz. vol. 155; p. 173.
West, Owen, Clark township, Clinton county, Ohio. Ditching-machine. No. 949,341; Feb. 15; Sp. p. 3278; Gaz. vol. 151; p. 575.
West, Russell C., Arbuckle, Cal. Combined cartridge-bandoleer, gun-rest, shoulder-strap, and recoil-pad. No. 960,058; May 31; Sp. p. 7902; Gaz. vol. 154; p. 1327.
West Tire Setter Company, The. (See Grenelle, Edward A., assignor.)
West, William B., Philadelphia, Pa. Air-brake and clutch mechanism. No. 966,282; Aug. 2; Sp. p. 933; Gaz. vol. 157; p. 148.
West, William H., Jr., Weston, Oreg. Window-pane fastener. No. 969,820; Sept. 13; Sp. p. 1469; Gaz. vol. 158; p. 254.
West, William L., Franklin, Pa. Manifold-paper. No. 972,742; Oct. 11; Sp. p. 2683; Gaz. vol. 159; p. 455.
West, William R., and G. C. Baker, Leichhardt, New South Wales, Australia. Safety-lock for elevators. No. 968,907; Aug. 30; Sp. p. 6554; Gaz. vol. 157; p. 1141.
Westad, Ivar J., Flaming, Minn. Hay-sling trigger. No. 973,598; Oct. 25; Sp. p. 4577; Gaz. vol. 159; p. 799.
Westaway, Walter C., Beloit, Wis., assignor to J. W. Duntley, Chicago, Ill. Sparker or igniter. No. 945,066; Jan. 4; Sp. p. 126; Gaz. vol. 150; p. 21.
Westaway, Walter C., Rockford, assignor to J. W. Duntley, Chicago, Ill. Carbureter. No. 968,215; Aug. 23; Sp. p. 5082; Gaz. vol. 157; p. 875.
Westburg, Arthur E., Jamestown, N. Y. Gas-regulator. No. 973,396; Oct. 18; Sp. p. 4154; Gaz. vol. 159; p. 708.
Westcott, Charles B. (See Dancy and Westcott.)
Westcott, Charles H., assignor of one-half to C. E. Jewell, Seneca Falls, N. Y. Ruler. No. 970,234; Dec. 20; Sp. p. 3954; Gaz. vol. 161; p. 683.
Westcott, Henry P., Erie, Pa. Device for testing meters. No. 949,640; Feb. 15; Sp. p. 3881; Gaz. vol. 151; p. 676.
Westcott, Henry P., Erie, Pa. Volume-recording attachment for fluid-meters. No. 951,711; Mar. 8; Sp. p. 2511; Gaz. vol. 152; p. 437.
Westcott, Henry P., and J. M. Hirt, Erie, Pa. Trigger-guard. No. 955,237; Apr. 19; Sp. p. 3331; Gaz. vol. 153; p. 594.
Westelin, Gottfrid, Lincoln, Nebr. Mail-box. No. 955,730; Apr. 19; Sp. p. 4413; Gaz. vol. 153; p. 761.
Westelin, Gottfrid, Lincoln, Nebr. Mail-box. No. 962,281; June 21; Sp. p. 4291; Gaz. vol. 155; p. 741.
Wester, Albert V., Gallitzin, assignor of one-half to R. G. Woodside, Pittsburg, Pa. Automatic triple valve for air-brakes. No. 945,654; Jan. 4; Sp. p. 1391; Gaz. vol. 150; p. 217.
Westerbeck, Frederick, St. Louis, Mo. Kitchen-cabinet. No. 946,927; Jan. 18; Sp. p. 4316; Gaz. vol. 150; p. 709.

Alphabetical list of inventions—Continued.

Westerbeck, Frederick, St. Louis, Mo. Container. No. 917,507; Jan. 25; Sp. p. 5609; Gaz. vol. 150; p. 931.
Westerbeck, Frederick, St. Louis, Mo. Spring-wheel. No. 960,749; June 7; Sp. p. 1030; Gaz. vol. 155; p. 173.
Westerbeck, Frederick, St. Louis, Mo. Sheet-metal can. No. 979,813; Dec. 27; Sp. p. 5197; Gaz. vol. 161; p. 901.
Westerbeck, Frederick, St. Louis, Mo. Refrigerator. No. 979,814; Dec. 27; Sp. p. 5198; Gaz. vol. 161; p. 901.
Westerbeck, Frederick, St. Louis, Mo. Container. No 979,815; Dec. 27; Sp. p. 5200; Gaz. vol. 161; p. 901.
Westerberg, Harry W., Brooklyn, N. Y. Game apparatus. No. 956,244; Apr. 26; Sp. p. 5558; Gaz. vol. 153; p. 969.
Westerberg, Hugh M. (See Roland and Westerberg.)
Westerhausen, Stephen. (See Harlin and Westerhausen.)
Westerheide, Wilhelm. (See Garpheide and Westerheide.)
Westerman, Thomas J., Olalla, Wash. Turbine. No. 979,619; Dec. 27; Sp. p. 4757; Gaz. vol. 161; p. 835.
Westerman, William, Ansonia, Conn. Means of producing seamless hollow bodies. No. 976,529; Nov. 22; Sp. p. 5422; Gaz. vol. 160; p. 916.
Western Book and Manufacturing Company. (See Larsen, Jacob N., assignor.)
Western Clock Manufacturing Company, The. (See Kern, George, assignor.)
Western Clock Manufacturing Company, The. (See Neureuther, Andrew H., assignor.)
Western Electric Company. (See Adams, Arthur H., assignor.)
Western Eelctric Company. (See Atwood, George F., assignor.)
Western Electric Company. (See Bullard, Albert M., assignor.)
Western Electric Company. (See Craft, Edward B., assignor.)
Western Electric Company. (See Currier, Hiram D., assignor.)
Western Electric Company. (See Dennis, Oliver C., assignor.)
Western Electric Company. (See Grace, Sergius P., assignor.)
Western Electric Company. (See Gustave, George, assignor.)
Western Electric Company. (See Hall, Roderic F., assignor.)
Western Electric Company. (See Holland, Newman H., assignor.)
Western Electric Company. (See Holmes and Craft, assignors.)
Western Electric Company. (See Luschka, August R., assignor.)
Western Electric Company. (See Lyng, John J., assignor.)
Western Electric Company. (See McQuarrie, James L., assignor.)
Western Electric Company. (See McQuarrie and Craft, assignors.)
Western Electric Company. (See Merz, William, assignor.)
Western Electric Company. (See Pöser, Hermann, assignor.)
Western Electric Company. (See Spurling, Oliver C., assignor.)
Western Electric Company. (See Wallace and Craft, assignors.)
Western Electric Company. (See Wuerffel, Herman L., assignor.)
Western Pipe and Steel Co. (See Lunceford, Henry W., assignor.)
Western Wheeled Scraper Company. (See Hamper and McKnight, assignors.)
Western Wheeled Scraper Company. (See McKnight, Thomas R., assignor.)
Westervelt, Henry V., Cresskill, assignor to The Great American Automatic Vending Machine Company, Hoboken, N. J. Check-controlled mechanism. No. 965,427; July 26; Sp. p. 5241; Gaz. vol. 156; p. 897.
Westinghouse Air Brake Company, The. (See Austin, Walter M., assignor.)
Westinghouse Air Brake Company, The. (See Cass, Christopher P., assignor.)
Westinghouse Air Brake Company, The. (See Cloud, John W., assignor.)
Westinghouse Air Brake Company, The. (See England, Alexander, assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Farmer and Turner, assignors.)
Westinghouse Air Brake Company, The. (See Herr, Herbert T., assignor.)
Westinghouse Air Brake Company, The. (See Key, James E., assignor.)
Westinghouse Air Brake Company, The. (See Mahoney, Joseph N., assignor.)
Westinghouse Air Brake Company, The. (See Mahoney and McCurdy, assignors.)
Westinghouse Air Brake Company, The. (See Miller, John F., assignor.)
Westinghouse Air Brake Company, The. (See Parke, Frederic H., assignor.
Westinghouse Air Brake Company, The. (See Shears, Cuthbert, assignor.)
Westinghouse Air Brake Company, The. (See Townsend, Charles W., assignor.)
Westinghouse Air Brake Company. (See Turner, Walter V., assignor.)
Westinghouse Air Brake Company, The. (See Westinghouse, Henry H., assignor.)
Westinghouse Automatic Air & Steam Coupler Company. (See Adreon, Robert E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric and Manufacturing Company. (See Abtmeyer, Theodore, assignor.)
Westinghouse Electric & Manufacturing Company. (See Auel, Carl B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Auel and Spurrier, assignors.)
Westinghouse Electric and Manufacturing Company. (See Baerlocker, Robert F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Baker, Malcolm H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Barr, John M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Beach, Howard L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bedell, Carl E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Beech, Jacob, assignor.)
Westinghouse Electric & Manufacturing Company. (See Bradshaw, William M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Branson, Walter J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Burns and Swoger, assignors.)
Westinghouse Electric & Manufacturing Company. (See Chapman, Frederick S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chovan, Gustave, assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Cooper, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Cooper, William, assignor.) (Reissue.)
Westinghouse Electric & Manufacturing Company. (See Davis, Joseph L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Davis and Varney, assignors.)
Westinghouse Electric & Manufacturing Company. (See Dow, James C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dyott, George M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Forrer, Joseph D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Garrett, Frank W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hadaway, William S., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hall, Fred C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hallock, Fletcher D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harris, Ford W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hartenheim, Max, assignor.)
Westinghouse Electric and Manufacturing Company. (See Hayes, Stephen O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hensley, William T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hoxie, Hall E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jackson, Ray P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jackson and Scheibe, assignors.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric and Manufacturing Company, The. (See Johnson, Charles S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kingsbury, Albert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kintner, Samuel M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kintner and Rosenblatt, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kunkel, Fred R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lamme, Benjamin G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lincoln, Paul M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)

Alphabetical list of patentees—Continued.

Westinghouse Electric and Manufacturing Company. (See Mahoney, Joseph N., assignor.)
Westinghouse Electric & Manufacturing Company. (See McConahey, William M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nicholson, Samuel L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Olsen, Haakon T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Paris, William A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pierson, Henry, assignor.)
Westinghouse Electric & Manufacturing Company. (See Psilander and Scott, assignors.)
Westinghouse Electric & Manufacturing Company. (See Pukerud, Thomas S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Renshaw, Clarence, assignor.)
Westinghouse Electric & Manufacturing Company. (See Reynders, Arthur B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Roberts, Joseph T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schaake, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schairer, Otto S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Scheibe, Harold M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Scott, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Scott, Thomas S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Shepard, Francis H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Siegfried, Robert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Steem, Halfdan A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stuart, Harve R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thompson, Wilbur H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tingley, Egbert M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Varley, Thomas W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Varney, Theodore, assignor.)
Westinghouse Electric & Manufacturing Company. (See Walker, Miles, assignor.)
Westinghouse Electric & Manufacturing Company. (See Warton, George, assignor.)
Westinghouse Electric & Manufacturing Company. (See Webster, John E., assignor.) (Reissue.)
Westinghouse Electric & Manufacturing Company. (See Webster and Davis, assignors.)
Westinghouse Electric & Manufacturing Company. (See Webster and Duff, assignors.)
Westinghouse Electric & Manufacturing Company. (See Wikander, Ragnar, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wiley, Brent, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wurts, Alexander J., assignor.)
Westinghouse, Geo. (See Potter, Henry N., assignor.)
Westinghouse, George. (See Kando, Kalman von, assignor.)
Westinghouse, George, Pittsburg, Pa. Turbine blade and vane. No. 953,568; Mar. 29; Sp. p. 6433; Gaz. vol. 152; p. 1151.
Westinghouse, George, Pittsburg, Pa. Propelling device. No. 968,823; Aug. 30; Sp. p. 6374; Gaz. vol. 157; p. 1112.
Westinghouse, George, Pittsburg, Pa. Reëntrant turbine. No. 969,821; Sept. 13; Sp. p. 1470; Gaz. vol. 158; p. 254.
Westinghouse, George, Pittsburg, Pa. Turbine. No. 972,421; Oct. 11; Sp. p. 1962; Gaz. vol. 159; p. 344.
Westinghouse, George, Pittsburg, Pa. Turbine-blade. No. 976,418; Nov. 22; Sp. p. 5174; Gaz. vol. 160; p. 879.
Westinghouse, George, Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 946,749; Jan. 18; Sp. p. 3874; Gaz. vol. 150; p. 647.
Westinghouse, George, Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 953,567; Mar. 29; Sp. p. 6430; Gaz. vol. 152; p. 1151.
Westinghouse, George, Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 953,674; Mar. 29; Sp. p. 6666; Gaz. vol. 152; p. 1187.
Westinghouse, George, Pittsburg, and A. M. Gow, Edgewood Park, Pa., assignors to said Westinghouse. Heating air. No. 976,966; Nov. 29; Sp. p. 6395; Gaz. vol. 160; p. 1092.
Westinghouse, George, Pittsburg, and A. M. Gow, Edgewood Park, Pa.; said Gow assignor to said Westinghouse. Apparatus for heating air. No. 976,967; Nov. 29; Sp. p. 6397; Gaz. vol. 160; p. 1092.
Westinghouse, Henry H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Cock for air-brakes. No. 977,242; Nov. 29; Sp. p. 6990; Gaz. vol. 160; p. 1188.
Westinghouse Lamp Company. (See Atwood, George F., assignor.)
Westinghouse Lamp Company. (See Beadle, George W., assignor.)
Westinghouse Lamp Company. (See Knight, Arthur S., assignor.)
Westinghouse Lamp Company. (See Lederer, Anton, assignor.)
Westinghouse Machine Company, The. (See Armstead, Frank C., assignor.)
Westinghouse Machine Company, The. (See Arnold, Edwin E., assignor.)
Westinghouse Machine Company, The. (See Barton, Henry L., assignor.)
Westinghouse Machine Company, The. (See Breslove, Joseph, assignor.)
Westinghouse Machine Company, The. (See Clarke, Athol W., assignor.)
Westinghouse Machine Company, The. (See Crist, Mark B., assignor.)
Westinghouse Machine Company, The. (See Dow, Herbert H., assignor.)
Westinghouse Machine Company, The. (See Dugar, Delano H., assignor.)
Westinghouse Machine Company, The. (See Ehrhart, Raymond N., assignor.)
Westinghouse Machine Company, The. (See Flint, William P., assignor.)
Westinghouse Machine Company, The. (See Gow, Alexander M., assignor.)
Westinghouse Machine Company, The. (See Green, Jonathan S., assignor.)
Westinghouse Machine Company, The. (See Hodgkinson, Francis, assignor.)
Westinghouse Machine Company, The. (See Lea, Henry I., assignor.)
Westinghouse Machine Company, The. (See London, William J. A., assignor.)
Westinghouse Machine Company, The. (See Lowd and Panter, assignors.)
Westinghouse Machine Company, The. (See Nikonow, John P., assignor.) (Reissue.)
Westinghouse Machine Company, The. (See Regenbogen, Conrad, assignor.)
Westinghouse Machine Company, The. (See Richardson and West, assignors.)
Westinghouse Machine Company, The. (See Sweet, Charles E., assignor.)
Westinghouse Machine Company, The. (See Thiel, Martin A., assignor.)
Westinghouse Machine Company, The. (See Westinghouse, George, assignor.)
Westinghouse Machine Company, The. (See Yawger, Edwin, assignor.)
Westinghouse Storage Battery Company. (See Flanders, Louis H., assignor.)
Westinghouse Storage Battery Company, The. (See Morrison, William, assignor.) (Reissue.)
Westlake, Albert, New York, N. Y. Mouth-tablet. No. 975,814; Nov. 15; Sp. p. 3837; Gaz. vol. 160; p. 647.
Westlake, Charles T., assignor to Cast Steel Platform Company, St. Louis, Mo. Car-underframe. No. 945,830; Jan. 11; Sp. p. 1834; Gaz. vol. 150; p. 307.
Westlake, Charles T., and C. F. Frede, assignors to Commonwealth Steel Company, St. Louis, Mo. Car-underframe. No. 979,115; Dec. 20; Sp. p. 3695; Gaz. vol. 161; p. 641.
Westlin, Bror E., Arlington, assignor to Otis Elevator Company, Jersey City, N. J. Motor-cam for door-locks. No. 964,891; July 19; Sp. p. 4133; Gaz. vol. 156; p. 688.
Westmacott, Alfred, St. Helens, Isle of Wight, England. Carbureter and vaporizer for internal-combustion engines. No. 976,237; Nov. 22; Sp. p. 4761; Gaz. vol. 160; p. 816.
Westman, Alfred, *et al.* (See Bice, Walter H., assignor.)
Weston, Arthur H., Baltimore county, Maryland. Side frame. No. 975,093; Nov. 8; Sp. p. 2291; Gaz. vol. 160; p. 375.
Weston, Frederick H., Jr., Schnectady, N. Y., assignor to General Electric Company. Fuse. No. 964,592; July 19; Sp. p. 3423; Gaz. vol. 156; p. 585.
Weston, Jesse, Plainfield, N. J. Steel square. No. 968,503; Aug. 23; Sp. p. 5670; Gaz. vol. 157; p. 977.
Weston, John H. (See Frenzel, William F., assignor.)
Weston, John R., Dubuque, Iowa. Drill. No. 972,666; Oct. 11; Sp. p. 2520; Gaz. vol. 159; p. 429.
Weston, Lawrence G., assignor to C. A. Browne, Brockton, Mass. Machine for joining leather pieces edgewise and otherwise operating upon the edges of material in sheet form. No. 960,471; June 7; Sp. p. 456; Gaz. vol. 155; p. 77.
Weston, Oliver, Cleveland, Ohio. Game or puzzle device. No. 968,824; Aug. 30; Sp. p. 6376; Gaz. vol. 157; p. 1112.

Weston, Thomas A., Arden, N. C. Friction-clutch. No. 953,652; Mar. 29; Sp. p. 6611; Gaz. vol. 152; p. 1180.
Weston & Wells Manufacturing Company. (See Wilkes, Elizabeth A., assignor.)
Weston, William, and J. G. Orth, Los Angeles, Cal. Apparatus for lubricating hydraulic-elevator rams. No. 950,268; Feb. 22; Sp. p. 5289; Gaz. vol. 151; p. 927.
Weston, William, and J. G. Orth, Los Angeles, Cal. Safety oil-tank. No. 954,152; Apr. 5; Sp. p. 974; Gaz. vol. 153; p. 164.
Weston, Willis G., Columbus, Ohio. Hat-securing device. No. 968,011; Aug. 23; Sp. p. 4617; Gaz. vol. 157; p. 807.
Westover, George D. (See Millspaugh and Vincent, assignors.)
Westphal, Albert, Baltimore, Md. Convertible stock-car. No. 955,238; Apr. 19; Sp. p. 3332; Gaz. vol. 153; p. 594.
Westphal, Albert, assignor of one-half to W. T. Giles, Baltimore, Md. Vehicle-wheel. No. 978,249; Dec. 13; Sp. p. 1807; Gaz. vol. 161; p. 316.
Westphal, Henry, Manitowoc, Wis. Sanding and rubbing machine. No. 957,283; May 10; Sp. p. 1705; Gaz. vol. 154; p. 298.
Westphal, Herman F., Milwaukee, Wis. Automatic draft-regulator for furnaces. No. 945,831; Jan. 11; Sp. p. 1837; Gaz. vol. 150; p. 307.
Westrip, Edward D., Rockford, Ill. Variable-speed gearing. No. 965,971; Aug. 2; Sp. p. 258; Gaz. vol. 157; p. 44.
Westrom, Carl, Maddock, N. D. Tool. No. 949,030; Feb. 15; Sp. p. 2647; Gaz. vol. 151; p. 471.
Westwell, Herbert R., Lawrence, Mass. Automatic stop mechanism for wool-combing machines. No. 979,620; Dec. 27; Sp. p. 4761; Gaz. vol. 161; p. 836.
Westwood, George J. W. (See Hill and Westwood.)
Wethall, Hans G., assignor of one-half to B. J. Dahl, Minneapolis, Minn. Floating decoy. No. 970,003; Sept. 13; Sp. p. 1866; Gaz. vol. 158; p. 317.
Wetherell, Anson B., Pittsburg, Pa. Bowling-alley. No. 960,750; June 7; Sp. p. 1031; Gaz. vol. 155; p. 174.
Wetherill, Richard W., Ambler, Pa., assignor to The J. M. Dodge Company, Naugatuck, Conn. Adjustable chute for car-loaders. No. 978,803; Dec. 13; Sp. p. 2976; Gaz. vol. 161; p. 504.
Wetherill Separating Company. (See Schnelle, Friedrich O., assignor.)
Wetmore, Earl P., New York, N. Y., assignor to Sterling Cork and Seal Company. Sealing-cap for bottles. No. 954,405; Apr. 5; Sp. p. 1497; Gaz. vol. 153; p. 249.
Wetmore, Earl P., New York, N. Y., assignor to Sterling Cork and Seal Company. Sealing bottles and other vessels. No. 954,406; Apr. 5; Sp. p. 1499; Gaz. vol. 153; p. 249.
Wetmore, Harry A., Anthon, Iowa. Harrow. No. 971,425; Sept. 27; Sp. p. 4814; Gaz. vol. 158; p. 843.
Wetmore, Willis H., Oneida, N. Y. Mop-wringer. No. 969,229; Sept. 6; Sp. p. 185; Gaz. vol. 158; p. 30.
Wetmur, William B., Montrose, Pa. Safety-razor. No. 949,205; Feb. 15; Sp. p. 2986; Gaz. vol. 151; p. 529.
Wettengel, Charles A., Caney, Kans., assignor to American Zinc, Lead & Smelting Company, Boston, Mass. Smelting-furnace. No. 953,405; Mar. 29; Sp. p. 6090; Gaz. vol. 152; p. 1094.
Wettergren, Addick G., and T. Furer, New York, N. Y. Egg-cup. No. 968,216; Aug. 23; Sp. p. 5085; Gaz. vol. 157; p. 876.
Wetteroth, Frank, assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Grass-catcher. No. 955,565; Apr. 19; Sp. p. 4019; Gaz. vol. 153; p. 704.
Wetteroth, Frank, assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Grass-catcher. No. 955,566; Apr. 19; Sp. p. 4021; Gaz. vol. 153; p. 705.
Wetteroth, Frank, assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Grass-catcher. No. 955,567; Apr. 19; Sp. p. 4023; Gaz. vol. 153; p. 705.
Wetteroth, Frank, assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Umbrella-runner. No. 956,657; May 3; Sp. p. 327; Gaz. vol. 154; p. 53.
Wetteroth, Frank, assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Umbrella part. No. 957,527; May 10; Sp. p. 2203; Gaz. vol. 154; p. 381.
Wetteroth, Frank, assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Hinge-joint. No. 957,528; May 10; Sp. p. 2204; Gaz. vol. 154; p. 381.
Wetteroth, Frank, assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Umbrella top-notcher. No. 958,341; May 17; Sp. p. 4251; Gaz. vol. 154; p. 693.
Wettig, George, New Albany, Ind., assignor to Beynroth & Wettig. Door-latch. No. 948,119; Feb. 1; Sp. p. 704; Gaz. vol. 151; p. 115.
Wettstein, Jacob, Greifensee, Switzerland. Metal railway-tie. No. 959,902; May 31; Sp. p. 7515; Gaz. vol. 154; p. 1270.
Wetzel, Elmer E., Painesville, Ohio. Milling-tool. No. 955,029; Apr. 12; Sp. p. 2908; Gaz. vol. 153; p. 492.
Wetzel, Thomas J. (See Dasey, Percy J., assignor.)
Weule, Arthur F. H., San Francisco, Cal. Azimuth instrument. No. 978,093; Dec. 6; Sp. p. 1445; Gaz. vol. 161; p. 233.
Wever, Sebern J., Sheller, Ill. Ironing-board. No. 979,621; Dec. 27; Sp. p. 4764; Gaz. vol. 161; p. 836.
Weyer, Joseph J., assignor to Bolte & Weyer Company, Chicago, Ill. Generator. No. 952,695; Mar. 22; Sp. p. 4557; Gaz. vol. 152; p. 828.
Wëyl, Siméon S. (See Molin, Christiaan, assignor.)
Whalen Company, The. (See Whalen, John T., assignor.)
Whalen, John T., Brooklyn, N. Y. Controlling mechanism for vehicles. No. 971,334; Sept. 27; Sp. p. 4649; Gaz. vol. 158; p. 813.
Whalen, John T., New York, N. Y., assignor to The Whalen Company, Jersey City, N. J. Permutation-lock switch. No. 968,217; Aug. 23; Sp. p. 5086; Gaz. vol. 157; p. 876.
Whaley, Charles W., Indianapolis, Ind. Trolley circuit connection. No. 979,116; Dec. 20; Sp. p. 3697; Gaz. vol. 161; p. 641.
Whaley, Paul G., *et al.* (See Mayhew, John, assignor.)
Whaley, William, Knoxville, Tenn. Loading-machine. No. 976,711; Nov. 22; Sp. p. 5772; Gaz. vol. 160; p. 977.
Whan, James H., Mertilla, Kans. Whiffletree connection. No. 963,411; July 5; Sp. p. 903; Gaz. vol. 156; p. 133.
Wharram, Mannie R., San Antonio, N. Mex. Railway-tie. No. 969,758; Sept. 6; Sp. p. 1301; Gaz. vol. 158; p. 209.
Wharton, Bloomfield F., Lima, Ohio. Calk for horseshoes. No. 962,282; June 21; Sp. p. 4292; Gaz. vol. 155; p. 742.
Whatley, Ransom A., Greenville, S. C. Railway-rail plate. No. 972,044; Oct. 4; Sp. p. 1167; Gaz. vol. 159; p. 197.
Wheary, George H., Racine, Wis. Garment-receptacle. No. 956,559; May 3; Sp. p. 109; Gaz. vol. 154; p. 20.
Wheat, John J., Chicago, Ill. Expressing-machine. No. 949,787; Feb. 22; Sp. p. 4197; Gaz. vol. 151; p. 758.
Wheat, Lyman A., Battle Creek, Mich. Stand or support for rolls of paper. No. 947,007; Jan. 18; Sp. p. 4476; Gaz. vol. 150; p. 736.
Wheat, Lyman A., Battle Creek, Mich. Printing-press. No. 970,671; Sept. 20; Sp. p. 3279; Gaz. vol. 158; p. 564.
Wheat, Lyman A., Battle Creek, Mich. Double-line rotary press. No. 973,599; Oct. 25; Sp. p. 4578; Gaz. vol. 159; p. 799.
Wheat, William H., Newnan, Ga. Switch apparatus. No. 957,132; May 3; Sp. p. 1346; Gaz. vol. 154; p. 215.
Wheatley, Joseph, Harlock, Ontario, Canada. Hay-loader rack. No. 953,569; Mar. 29; Sp. p. 6436; Gaz. vol. 152; p. 1152.
Wheatley, William H. (See Smith, Alice, assignor.)
Wheaton, Carl M., Newtonville, Mass., assignor to G. O. Draper, New York, N. Y. Self-oiling bearing. No. 954,836; Apr. 12; Sp. p. 2499; Gaz. vol. 153; p. 426.
Wheaton, Carl M., Newtonville, Mass., assignor to G. O. Draper, New York, N. Y. Self-oiling bearing for pulleys. No. 954,837; Apr. 12; Sp. p. 2502; Gaz. vol. 153; p. 426.
Whedon, Harry F., Cleveland, Ohio. Engraving-machine. No. 962,686; June 28; Sp. p. 5165; Gaz. vol. 155; p. 904.
Wheeler, Albert H., Worcester, Mass. Device for keeping records. No. 948,676; Feb. 8; Sp. p. 1900; Gaz. vol. 151; p. 326.
Wheeler, Albert H., Worcester, Mass. Puzzle. No. 959,903; May 31; Sp. p. 7516; Gaz. vol. 154; p. 1270.
Wheeler, Albert H., Worcester, Mass. Puzzle. No. 968,218; Aug. 23; Sp. p. 5088; Gaz. vol. 157; p. 876.
Wheeler, Alden D., Hyde Park, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y. Fire-alarm intercommunication system. No. 952,024; Mar. 15; Sp. p. 3178; Gaz. vol. 152; p. 572.
Wheeler, Arthur S., assignor to F. S. Webster Company, Boston, Mass. Pencil-sharpening machine. No. 961,392; June 14; Sp. p. 2361; Gaz. vol. 155; p. 417.
Wheeler, Charles V., and A. G. McKenna, Washington, D. C., assignors to Firth Sterling Steel Company. Capped armor-piercing projectile. No. 950,586; Mar. 1; Sp. p. 255; Gaz. vol. 152; p. 42.
Wheeler, Charles V., and A. G. McKenna, Washington, D. C., assignors to Firth Sterling Steel Company. Projectile. No. 963,489; July 5; Sp. p. 1051; Gaz. vol. 156; p. 160.
Wheeler, Charles V., and A. G. McKenna, Washington, D. C., assignors to Firth Sterling Steel Company. Cap for armor-piercing projectiles. No. 968,012; Aug. 23; Sp. p. 4617; Gaz. vol. 157; p. 807.
Wheeler Condenser and Engineering Company. (See Christie and Roberts, assignors.)
Wheeler, David C. (See Wheeler, Dwight and D. C.)
Wheeler, David C., assignor to The Acme Shear Company, Bridgeport, Conn. Draw-cut shears. No. 953,365; Mar. 29; Sp. p. 6004; Gaz. vol. 152; p. 1080.
Wheeler, Dwight and D. C., assignors to The Acme Shear Company, Bridgeport, Conn. Shears. No. 968,219; Aug. 23; Sp. p. 5090; Gaz. vol. 157; p. 877.
Wheeler, Dwight C., assignor to The Acme Shear Company, Bridgeport, Conn. Tension device for shears. No. 949,166; Feb. 15; Sp. p. 2914; Gaz. vol. 151; p. 517.
Wheeler, Enoch S., Centralia, Wash. Door-latch. No. 974,323; Nov. 1; Sp. p. 568; Gaz. vol. 160; p. 83.
Wheeler, Frank C., assignor to The American Seeding Machine Company, Springfield, Ohio. Device for automatically cutting finished telescopic grain-conductor tubes. No. 965,781; July 26; Sp. p. 6014; Gaz. vol. 156; p. 1021.
Wheeler, Frank C., assignor to The American Seeding Machine Company, Springfield, Ohio. Machine for making sheet-metal tubes. No. 977,150; Nov. 29; Sp. p. 6799; Gaz. vol. 160; p. 1155.

Alphabetical list of patentees—Continued.

Wheeler, Frank L., *et al.* (See Mikolasek, Wenceslaus F., assignor.)
Wheeler, George F. (See Woolnough and Wheeler.)
Wheeler, Holman K., Malden, Mass. Ventilating-blind. No. 975,491; Nov. 15; Sp. p. 3146; Gaz. vol. 160; p. 537.
Wheeler, Horace, Hartford, Conn., assignor to General Electric Company. Multiple-fuse holder for single-pole circuits. No. 954,838; Apr. 12; Sp. p. 2503; Gaz. vol. 153; p. 427.
Wheeler, Joel N., Geneva, Ill. Child's speed-car. No. 961,370; June 14; Sp. p. 2325; Gaz. vol. 155; p. 411.
Wheeler, Joel N., Geneva, Ill. Child's sulky. No. 977,495; Dec. 6; Sp. p. 146; Gaz. vol. 161; p. 26.
Wheeler, John A., Jr., West Medford, Mass., assignor, by mesne assignments, to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Buckle. No. 963,193; July 5; Sp. p. 423; Gaz. vol. 156; p. 60.
Wheeler, John A., Jr., West Medford, Mass., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Buckle. No. 964,136; July 12; Sp. p. 2439; Gaz. vol. 156; p. 400.
Wheeler, John H., and W. D. Allen, New Haven, Conn. Shell-extractor. No. 976,325; Nov. 22; Sp. p. 4959; Gaz. vol. 160; p. 845.
Wheeler, Morris, Chicago, Ill. Burglar-alarm sash-lock. No. 975,186; Nov. 8; Sp. p. 2518; Gaz. vol. 160; p. 407.
Wheeler, Percy, Oldbury, England. Sliding-door-operating means. No. 957,284; May 10; Sp. p. 1707; Gaz. vol. 154; p. 298.
Wheeler, Raymond O., assignor to The Bankers Construction Company, Cincinnati, Ohio. Book-stack. No. 969,822; Sept. 13; Sp. p. 1472; Gaz. vol. 158; p. 254.
Wheeler, Rufus J., and H. R. Neil, Bakersfield, Cal. Oil-burner. No. 974,324; Nov. 1; Sp. p. 570; Gaz. vol. 160; p. 83.
Wheeler & Schebler. (See Schebler, George M., assignor.)
Wheeler, Seth, Albany, N. Y. Paper-holder. No. 954,709; Apr. 12; Sp. p. 2175; Gaz. vol. 153; p. 381.
Wheeler, Seth, Castleton, N. Y. Tubular core. No. 972,667; Oct. 11; Sp. p. 2521; Gaz. vol. 159; p. 429.
Wheeler, Seth, Castleton, N. Y. Oval roll and core therefor. No. 972,668; Oct. 11; Sp. p. 2523; Gaz. vol. 159; p. 430.
Wheeler, Walter O., Worcester, Mass. Steam-trap. No. 950,787; Mar. 1; Sp. p. 705; Gaz. vol. 152; p. 112.
Wheeler, Walter O., Worcester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 959,666; May 31; Sp. p. 7014; Gaz. vol. 154; p. 1191.
Wheeler, William E., Piggott, Ark. Bale-tie. No. 964,352; July 12; Sp. p. 2864; Gaz. vol. 156; p. 473.
Wheeler, William W., Meriden, Conn. Rotary engine. No. 945,067; Jan. 4; Sp. p. 128; Gaz. vol. 150; p. 22.
Wheeling Corrugated Company, The. (See Day and Riddle, assignors.)
Wheeling, Landa A., assignor of one-half to R. W. Terhune, Whiteland, Ind. Gate. No. 969,925; Sept. 13; Sp. p. 1687; Gaz. vol. 158; p. 290.
Wheelock, Dickinson O. (See Wheelock, Edwin M., E. F., and D. O.)
Wheelock, Edwin M., Minneapolis, E. F. Wheelock, Northfield, and D. O. Wheelock, Minneapolis, Minn. Guide-wheel for plow-motors. No. 954,839; Apr. 12; Sp. p. 2508; Gaz. vol. 153; p. 427.
Wheelock, Edwin M., Minneapolis, E. F. Wheelock, Northfield, and D. O. Wheelock, Minneapolis, Minn. Guiding device for plow-motors. No. 963,490; July 5; Sp. p. 1052; Gaz. vol. 156; p. 160.
Wheelock, Emery F. (See Wheelock, Edwin M., E. F., and D. O.)
Wheelwright, George W., Paterson, assignor of one-half to Sleeth Manufacturing Company, Belleville, N. J. Stop mechanism for power-presses. No. 971,945; Oct. 4; Sp. p. 962; Gaz. vol. 159; p. 161.
Whelan, Charles A., Buena Vista, Colo. Water-motor. No. 952,969; Mar. 22; Sp. p. 5126; Gaz. vol. 152; p. 920.
Whelan, William, St. Joseph, Mo. Vacuum-faucet. No. 958,709; May 17; Sp. p. 4962; Gaz. vol. 154; p. 816.
Whelchel, Bert, Anderson, Ind. Armature-casing. No. 956,461; Apr. 26; Sp. p. 6015; Gaz. vol. 153; p. 1043.
Whelchel, James F., assignor of one-half to R. I. Holland, Murrayville, Ga. Sweep-shaper. No. 978,416; Dec. 13; Sp. p. 2162; Gaz. vol. 161; p. 375.
Wheless, Thomas H., New York, N. Y. Railway. No. 968,616; Aug. 30; Sp. p. 5912; Gaz. vol. 157; p. 1042.
Wheless, Thomas H., New York, N. Y. Compound rail. No. 968,617; Aug. 30; Sp. p. 5916; Gaz. vol. 157; p. 1042.
Wheless, Thomas H., New York, N. Y. Railway construction. No. 968,618; Aug. 30; Sp. p. 5919; Gaz. vol. 157; p. 1043.
Wherry, William B., Overton, Tex. Mail-cart. No. 974,729; Nov. 1; Sp. p. 1774; Gaz. vol. 160; p. 227.
Whetsell, Benjamin F., Elkins, W. Va. Swingletree-clip or trace-fastener. No. 945,145; Jan. 4; Sp. p. 274; Gaz. vol. 150; p. 48.
Whetstone, Carl C., Basin, Mont. Currycomb. No. 949,868; Feb. 22; Sp. p. 4395; Gaz. vol. 151; p. 787.
Whetzel, Stephen A., South Brownsville, Pa. Pipe-wrench. No. 949,557; Feb. 15; Sp. p. 3723; Gaz. vol. 151; p. 648.
Whigham, William H., California, Pa. Angle guide attachment for boring-tools. No. 970,360; Sept. 13; Sp. p. 2588; Gaz. vol. 158; p. 437.
Whigham, William H., California, Pa. Bit-brace. No. 970,361; Sept. 13; Sp. p. 2589; Gaz. vol. 158; p. 437.
Whilde, Thomas, Bellingham, Wash. Repair-patch. No. 969,431; Sept. 6; Sp. p. 594; Gaz. vol. 158; p. 95.
Whinery, Samuel, East Orange, N. J. Street-cleaning apparatus. No. 973,091; Oct. 18; Sp. p. 3484; Gaz. vol. 159; p. 602.
Whipple, Charles R., Worcester, Mass., assignor of one-third to J. F. Morris and one-third to J. H. Bradley, Washington, D. C. Dumping-car. No. 951,669; Mar. 8; Sp. p. 2452; Gaz. vol. 152; p. 424.
Whipple, Clayton J., Euclid, Ohio. Vertical file-index clasp. No. 958,050; May 17; Sp. p. 3464; Gaz. vol. 154; p. 592.
Whipple, Clyde S., Portland, Ind., assignor to A. H. Heisey & Co. Receptacle for match-boxes, ashes, and the like. No. 952,160; Mar. 15; Sp. p. 3430; Gaz. vol. 152; p. 617.
Whipps, Joshua M., Le Sueur Center, Minn. Barn-door hanger. No. 970,408; Sept. 13; Sp. p. 2676; Gaz. vol. 158; p. 452.
Whisler, John, Gibson, Iowa. Nut-splitting and bolt-nipping tool. No. 962,483; June 28; Sp. p. 4738; Gaz. vol. 155; p. 835.
Whistler, Ellen W., *et al.* (See Whistler and Hearn, assignors.)
Whistler, Garland N., and C. C. Hearn, Fort Monroe, Va., assignors of one-half to E. W. Whistler and one-half to L. O. Hearn. Device for correcting the earth's curvature and atmospheric refraction on a depression position-finder. No. 949,456; Feb. 15; Sp. p. 3513; Gaz. vol. 151; p. 614.
Whistler, John, and R. A. Dudeck, St. Louis, Mo. Vending apparatus. No. 962,283; June 21; Sp. p. 4293; Gaz. vol. 155; p. 742.
Whitaker, David S., assignor of one-half to T. H. Northrup, Denver, Colo. Work-holder. No. 970,586; Sept. 20; Sp. p. 3073; Gaz. vol. 158; p. 535.
Whitaker, Edgar H., St. Louis, Mo. Railway-switch-operating device. No. 945,655; Jan. 4; Sp. p. 1394; Gaz. vol. 150; p. 217.
Whitaker, Henry C., *et al.* (See Hoar, Richard A., assignor.)
Whitaker, Joseph W., Noble, Ill. Safety stovepipe-holder. No. 973,830; Oct. 25; Sp. p. 5067; Gaz. vol. 159; p. 881.
Whitaker, Richard V., Jr., New Brunswick, N. J. Grease cartridge or container. No. 963,840; July 12; Sp. p. 1828; Gaz. vol. 156; p. 301.
Whitall Tatum Company. (See Brumley, Howard V., assignor.)
Whitall Tatum Company. (See Hogan and Meinecke, assignors.)
Whitall Tatum Company. (See Meinecke, Christian W., assignor.)
Whitcher, Frank W., and C. F. Randall, Boston, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Protector for heels and soles of boots and shoes. No. 959,982; May 31; Sp. p. 7708; Gaz. vol. 154; p. 1299.
Whitcher, George H., Berlin, N. H. Device for determining the force or velocity of fluids. No. 949,788; Feb. 22; Sp. p. 4198; Gaz. vol. 151; p. 758.
Whitcomb, Alonzo W., assignor to Whitcomb-Blaisdell Machine Tool Company, Worcester, Mass. Power-transmitting device. No. 954,661; Apr. 12; Sp. p. 2077; Gaz. vol. 153; p. 365.
Whitcomb-Blaisdell Machine Tool Company. (See Whitcomb, Alonzo W., assignor.)
Whitcomb, Charles O., Oxford, Mich. Foldable display-rack for burial-caskets. No. 952,058; Mar. 15; Sp. p. 3243; Gaz. vol. 152; p. 584.
Whitcomb, Frank H., and R. R. Faulkner, Marion, Ind., assignors of one-third to said Whitcomb, one-third to J. E. Faulkner, and one-third to H. O. Faulkner. Washing-machine. No. 953,078; Mar. 29; Sp. p. 5358; Gaz. vol. 152; p. 985.
Whitcomb, George W., Duff, Nebr. Automatic vehicle-brake. No. 959,279; May 24; Sp. p. 6198; Gaz. vol. 154; p. 1035.
Whitcomb, Harris M., Albany, Wis. Friction gear mechanism. No. 967,279; Aug. 16; Sp. p. 3095; Gaz. vol. 157; p. 536.
Whitcomb, Lawrence, Brookline, Mass. Controlling mechanism for motor-vehicles. No. 959,087; May 24; Sp. p. 5807; Gaz. vol. 154; p. 973.
White, Albert E., Eau Claire, Wis. Saw-swage. No. 948,197; Feb. 1; Sp. p. 850; Gaz. vol. 151; p. 140.
White, Albert E., Eau Claire, Wis. Saw-shaper. No. 956,915; May 3; Sp. p. 905; Gaz. vol. 154; p. 143.
White, Alexander P., Caldwell, N. J. Lathing. No. 960,751; June 7; Sp. p. 1033; Gaz. vol. 155; p. 174.
White, Alexander P., Caldwell, N. J. Incandescent gas-mantle and making same. No. 966,283; Aug. 2; Sp. p. 937; Gaz. vol. 157; p. 149.
White, Alfred S., Chicago, Ill. Gas-pump. No. 977,690; Dec. 6; Sp. p. 613; Gaz. vol. 161; p. 93.

Alphabetical list of patentees—Continued.

White, Arthur M., assignor of one-half to G. N. Loughead, Greenwood, Wis. Cattle-guard. No. 946,478; Jan. 11; Sp. p. 3311; Gaz. vol. 150; p. 532.
White, C. E., *et al.* (See Ward, Lloyd W., assignor.)
White, C. G. (See Eaid and Crotty, assignors).
White, Charles, Baltimore, Md. Method of operating gas-engines and apparatus therefor. No. 975,008; Nov. 8; Sp. p. 2124; Gaz. vol. 160; p. 346.
White, Charles E., Moline, Ill., assignor to Deere & Mansur Company. Harrow. No. 951,227; Mar. 8; Sp. p. 1538; Gaz. vol. 152; p. 277.
White, Charles E., Moline, Ill., assignor to Deere & Mansur Company. Harrow. No. 951,924; Mar. 15; Sp. p. 2990; Gaz. vol. 152; p. 541.
White, Charles E., Moline, Ill. Hay-rake. No. 954,903; Apr. 12; Sp. p. 2657; Gaz. vol. 153; p. 450.
White, Charles J., assignor to The C. J. White Manufacturing Company, New Britain, Conn. Garment-supporter. No. 959,088; May 24; Sp. p. 5810; Gaz. vol. 154; p. 973.
White, Charles J., assignor to C. J. White Manufacturing Company, New Britain, Conn. Garment-supporter. No. 968,299; Aug. 23; Sp. p. 5259; Gaz. vol. 157; p. 905.
White, Charles P., Greensboro, N. C. Track-sander. No. 957,482; May 10; Sp. p. 2104; Gaz. vol. 154; p. 365.
White, Clair, Smethport, Pa. T-square holder. No. 977,765; Dec. 6; Sp. p. 766; Gaz. vol. 161; p. 119.
White, Clarence W., Lacon, assignor of fifty-one one-hundredths to W. L. Sinnott, Streator, Ill. Mine-exit. No. 968,504; Aug. 23; Sp. p. 5671; Gaz. vol. 157; p. 977.
White Company, The. (See White, Rollin H., assignor.)
White, Cummins E., *et al.* (See Andrews, Orwen K., assignor.)
White, Edmond P., Chicago, Ill., assignor to White Tire Company. Vehicle-tire. No. 945,115; Jan. 4; Sp. p. 224; Gaz. vol. 150; p. 38.
White, Elijah D., New York, N. Y. Safety controlling device for street-cars. No. 954,710; Apr. 12; Sp. p. 2179; Gaz. vol. 153; p. 381.
White, Ezekial F., Atlanta, Ga. Carbureter. No. 979,907; Dec. 27; Sp. p. 5395; Gaz. vol. 161; p. 932.
White, Frank C., assignor to The Wilcox & White Company, Meriden, Conn. Note-sheet-winding apparatus. No. 968,220; Aug. 23; Sp. p. 5091; Gaz. vol. 157; p. 877.
White, Frank C., assignor to The Wilcox & White Company, Meriden, Conn. Tracker construction for mechanical music-playing instruments. No. 968,221; Aug. 23; Sp. p. 5094; Gaz. vol. 157; p. 877.
White, Frank L., assignor of one-half to T. F. Hutchinson, Little Rock, Ark. Wheel. No. 979,816; Dec. 27; Sp. p. 5202; Gaz. vol. 161; p. 902.
White, Franklin. (See Stubley, Charles H., assignor.)
White, Franklin P., Shallotte, N. C. Combined can and cooker. No. 972,304; Oct. 11; Sp. p. 1726; Gaz. vol. 159; p. 303.
White, Frick F., Ligonier, Pa. Folding umbrella. No. 961,707; June 14; Sp. p. 3020; Gaz. vol. 155; p. 523.
White, Garrett, assignor of one-half to W. B. Neely, Chapel Hill, Tenn. Thermic circuit-closer for electro-magnetic apparatus. No. 972,964; Oct. 18; Sp. p. 3215; Gaz. vol. 159; p. 559.
White, Garrett, assignor of one-half to W. B. Neely, Chapel Hill, Tenn. Invalid-lifting apparatus. No. 977,243; Nov. 29; Sp. p. 6991; Gaz. vol. 160; p. 1188.
White, George H., Cincinnati, Ohio. Door-hinge. No. 965,265; July 26; Sp. p. 4880; Gaz. vol. 156; p. 843.
White, George H., Chicago, Ill. Musical horn. No. 969,126; Aug. 30; Sp. p. 6994; Gaz. vol. 157; p. 1216.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. Magnetic blow-out. No. 967,280; Aug. 16; Sp. p. 3098; Gaz. vol. 157; p. 536.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. Magnetic blow-out. No. 967,281; Aug. 16; Sp. p. 3099; Gaz. vol. 157; p. 537.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. System of motor control. No. 969,583; Sept. 6; Sp. p. 924; Gaz. vol. 158; p. 147.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. Control of electrically-operated switches. No. 969,584; Sept. 6; Sp. p. 929; Gaz. vol. 158; p. 148.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. Control of electrically-operated switches. No. 969,738; Sept. 6; Sp. p. 1248; Gaz. vol. 158; p. 201.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 977,912; Dec. 6; Sp. p. 1065; Gaz. vol. 161; p. 169.
White, Harold E., and E. R. Carichoff, Schenectady, N. Y., assignors to General Electric Company. Control of electrically-operated switches. No. 969,585; Sept. 6; Sp. p. 938; Gaz. vol. 158; p. 148.
White, Harry. (See Lindh, Albert L., assignor.)
White, Harry L. (See Fisk and White.)
White, Henderson N. (See De Good, Joseph L., assignor.)
White, Henderson N. (See Summers, Silas J., assignor.)
White, Henderson N., Cleveland, Ohio. Slide-trombone. No. 958,051; May 17; Sp. p. 3465; Gaz. vol. 154; p. 593.
White, Henderson N., Cleveland, Ohio. Slide-trombone. No. 977,766; Dec. 6; Sp. p. 767; Gaz. vol. 161; p. 119.
White, Henry, Cleveland, assignor of one-third to W. S. Parr, Lakewood, Ohio. Water heater and purifier. No. 958,845; May 24; Sp. p. 5293; Gaz. vol. 154; p. 892.
White, Henry A. (See Bishop, Columbus H., assignor.)
White, Herbert E., assignor to General Fireproofing Company, Youngstown, Ohio. Metallic lathing and concrete-reinforcing structure. No. 945,656; Jan. 4; Sp. p. 1396; Gaz. vol. 150; p. 217.
White, Herbert E., Youngstown, Ohio, assignor to The General Fireproofing Company, New York, N. Y. Concrete reinforcement. No. 947,746; Jan. 25; Sp. p. 6059; Gaz. vol. 150; p. 1011.
White, Herbert E., Youngstown, Ohio, assignor to The General Fireproofing Company, New York, N. Y. Wire fabric. No. 955,110; Apr. 12; Sp. p. 3040; Gaz. vol. 153; p. 516.
White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Metal studding. No. 955,111; Apr. 12; Sp. p. 3041; Gaz. vol. 153; p. 516.
White, Herbert E., Youngstown, Ohio, and W. H. Ham, assignors to The General Fireproofing Company, New York, N. Y. Reinforced concrete structure. No. 975,307; Nov. 8; Sp. p. 2778; Gaz. vol. 160; p. 449.
White, Hubert C., Fultonville, N. Y., and O. N. Wardwell, Clayville, R. I., assignors to White Mop Wringer Company, Fultonville, N. Y. Mop-wringer. No. 976,238; Nov. 22; Sp. p. 4766; Gaz. vol. 160; p. 816.
White, Irving W., deceased, New York, N. Y.; W. H. White, administrator, New Haven, Conn. Temperature-controlling valve. No. 949,869; Feb. 22; Sp. p. 4396; Gaz. vol. 151; p. 788.
White, James, and C. Cole, Carberry, Manitoba, Canada. Machine for handling grain. No. 964,074; July 12; Sp. p. 2305; Gaz. vol. 156; p. 379.
White, James K., Springville, Tenn. Separator. No. 951,264; Mar. 8; Sp. p. 1613; Gaz. vol. 152; p. 288.
White, John E., Grand Rapids, Mich. Display-rack. No. 962,185; June 21; Sp. p. 4091; Gaz. vol. 155; p. 710.
White, John F., Pittsburg, Pa. Electrical mechanical player for musical instruments. No. 975,187; Nov. 8; Sp. p. 2519; Gaz. vol. 160; p. 407.
White, John T. (See Rawling and White.)
White, John W., Clay City, Ind. Mail-carrier. No. 954,554; Apr. 12; Sp. p. 1831; Gaz. vol. 153; p. 328.
White, John W., assignor of one-half to C. F. Froelich, Kansas City, Kans. Can feeding and delivering mechanism. No. 955,731; Apr. 19; Sp. p. 4414; Gaz. vol. 153; p. 762.
White, Joseph C., Chelsea, assignor to White-Merrill Company, Boston, Mass. Firearm. No. 954,904; Apr. 12; Sp. p. 2658; Gaz. vol. 153; p. 450.
White, Joseph P., assignor of one-half to A. P. Solomon, Savannah, Ga. Spark-plug for explosive-engines. No. 960,752; June 7; Sp. p. 1035; Gaz. vol. 155; p. 174.
White, Lester M., Lockport, N. Y. Boat-fender. No. 950,685; Mar. 1; Sp. p. 473; Gaz. vol. 152; p. 76.
White Lily Manufacturing Company. (See Plagman, Adolph, assignor.)
White, Lucy, Deer Park, Wash. Belt-tightener. No. 959,667; May 31; Sp. p. 7016; Gaz. vol. 154; p. 1191.
White Manufacturing Company, The. (See Mathews, Charles O., assignor.)
White-Merrill Company. (See White, Joseph C., assignor.)
White Mop Wringer Company. (See White and Wardwell, assignors.)
White, Oren H. (See Schartow and White.)
White, Orlando M., and E. E. Flowers, Alexander, W. Va. Electric-light hanger. No. 956,245; Apr. 26; Sp. p. 5559; Gaz. vol. 153; p. 969.
White, Percival T., and G. Robertson, Perth, Western Australia, Australia. Tilting appliance for decanting oils and liquids. No. 957,829; May 10; Sp. p. 2804; Gaz. vol. 154; p. 482.
White, Rachel E., Pittsburg, Pa. Overshoe-fastener. No. 975,815; Nov. 15; Sp. p. 3839; Gaz. vol. 160; p. 647.
White, Reuben G., Hempstead, Tex. Insectifuge fertilizer for cotton. No. 968,013; Aug. 23; Sp. p. 4618; Gaz. vol. 157; p. 807.
White, Robert, assignor of one-half to E. S. Burns, Beaver Falls, Pa. Valve for gas-engines. No. 957,285; May 10; Sp. p. 1709; Gaz. vol. 154; p. 299.
White, Rollin H., assignor, by mesne assignments, to The White Company, Cleveland, Ohio. Steam-automobile. No. 971,810; Oct. 4; Sp. p. 624; Gaz. vol. 159; p. 109.
White, Rollin H., assignor to The White Company, Cleveland, Ohio. Producing and burning combustible hydrocarbon mixtures. No. 974,730; Nov. 1; Sp. p. 1475; Gaz. vol. 160; p. 227.
White, Samuel B., assignor to The Office Appliance Manufacturing Company, Providence, R. I. Stamp-affixing machine. No. 968,619; Aug. 30; Sp. p. 5920; Gaz. vol. 157; p. 1043.
White, Samuel K., assignor to The Smyth Manufacturing Company, Hartford, Conn. Book-smashing machine. No. 958,787; May 24; Sp. p. 5157; Gaz. vol. 154; p. 869.
White, Samuel K., Hartford, Conn., assignor to Smyth Manufacturing Company. Paper-trimming machine. No. 968,014; Aug. 23; Sp. p. 4619; Gaz. vol. 157; p. 807.
White, Sarah J. (See White, Virgil A., assignor.)
White Sewing Machine Company, The. (See Colegrove, Charles E., assignor.)

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White, Simeon H., *et al.* (See Scribner, John H., assignor.)
White, Thomas. (See Johnson, George A., assignor.)
White, Thomas L., and A. P. Elten, New York, N. Y. Dehydrating milk. No. 956,246; Apr. 26; Sp. p. 5561; Gaz. vol. 153; p. 969.
White, Thomas S., West Frankfort, Ill. Adjustable crank. No. 963,016; June 28; Sp. p. 5810; Gaz. vol. 155; p. 1017.
White Tire Company. (See White, Edmond P., assignor.)
White, Virgil A., deceased; E. C. Ogg, administrator, assignor to S. J. White, Newton, Iowa. Gearing. No. 961,740; June 14; Sp. p. 3093; Gaz. vol. 155; p. 534.
White, W. R. (See Thompson, James E., assignor.)
White, Wallace, Lawrence, Mass. Refining-engine. No. 955,299; Apr. 19; Sp. p. 3460; Gaz. vol. 153; p. 614.
White, Warren B., North Abington, Mass. Insole-lip-forming machine. No. 977,767; Dec. 6; Sp. p. 768; Gaz. vol. 161; p. 119.
White, Willard H., administrator. (See White, Irving W.)
White, William, Chicago, Ill. Center-bearing. No. 976,326; Nov. 22; Sp. p. 4960; Gaz. vol. 160; p. 846.
White, William A., Seattle, Wash. Game apparatus. No. 958,342; May 17; Sp. p. 4252; Gaz. vol. 154; p. 694.
White, William B., Cleveland, Ohio. Vault-head. No. 976,327; Nov. 22; Sp. p. 4965; Gaz. vol. 160; p. 846.
White, William C. (See Rodgers and White.)
White, William D., assignor to Holyoke Machine Company, Worcester, Mass. Water-wheel governor. No. 955,568; Apr. 19; Sp. p. 4024; Gaz. vol. 153; p. 706.
White, William D., assignor to Holyoke Machine Company, Worcester, Mass. Stop for water-wheels. No. 971,095; Sept. 27; Sp. p. 4170; Gaz. vol. 158; p. 736.
White, William F., assignor to B. F. Windsor, Kenosha, Wis. Wire fabric. No. 962,541; June 28; Sp. p. 4865; Gaz. vol. 155; p. 855.
White, William H. (See Schartow and White.)
White, William L., assignor of one-third to G. P. Ferguson, Healdsburg, Cal. Plow draft appliance. No. 971,711; Oct. 4; Sp. p. 416; Gaz. vol. 159; p. 72.
White, William N., Forty Fort, Pa. Ticket-clip. No. 951,925; Mar. 15; Sp. p. 2991; Gaz. vol. 152; p. 541.
White, William R. (See Decker, Theodore L., assignor.)
White, William W., assignor to Holyoke Machine Company, Worcester, Mass. Gate-controlling mechanism for water-wheels. No. 955,569; Apr. 19; Sp. p. 4026; Gaz. vol. 153; p. 706.
White, William W., assignor to Holyoke Machine Company, Worcester, Mass. Apparatus for operating water-wheel gates. No. 959,280; May 24; Sp. p. 6200; Gaz. vol. 154; p. 1036.
White, Zare, Providence, R. I. Jewel-mounting. No. 951,926; Mar. 15; Sp. p. 2992; Gaz. vol. 152; p. 542.
Whiteaker, George L., Steuben, Wis. Window-sash. No. 961,919; June 21; Sp. p. 3488; Gaz. vol. 155; p. 617.
Whitehall, Samuel, South Bend, Ind. Seal for boxes. No. 974,940; Nov. 8; Sp. p. 1960; Gaz. vol. 160; p. 323.
Whitehead, Alfred R., Headingley, Leeds, England. Spindle-support for rollers for combing-machines. No. 957,921; May 17; Sp. p. 3034; Gaz. vol. 154; p. 544.
Whitehead, Benjamin S., assignor to The Whitehead & Hoag Company, Newark, N. J. Telephone direction-plate. No. 954,770; Apr. 12; Sp. p. 2332; Gaz. vol. 153; p. 403.
Whitehead, Charles. (See Anderson, Eugene G., assignor.)
Whitehead & Company. (See Hay, Marley F., assignor.)
Whitehead, Edwin J., assignor to The Trenton Potteries Company, Trenton, N. J. Forming ornamentations on articles of earthenware. No. 979,726; Dec. 27; Sp. p. 4994; Gaz. vol. 161; p. 872.
Whitehead, Frank P., Balham, London, assignor to The Thornton-Pickard Manufacturing Company Limited, Altrincham, England. Photographic shutter. No. 976,712; Nov. 22; Sp. p. 5776; Gaz. vol. 160; p. 978.
Whitehead, George E., Millbury, assignor to Draper Company, Hopedale, Mass. Harness stop-motion for looms. No. 966,725; Aug. 9; Sp. p. 1909; Gaz. vol. 157; p. 323.
Whitehead & Hoag Company, The. (See Conklin, Edward D., assignor.)
Whitehead & Hoag Company, The. (See Jenkins, Walter S., assignor.)
Whitehead & Hoag Company, The. (See Whitehead, Benjamin S., assignor.)
Whitehead, Howard R., Lonsdale, R. I. Split-lap preventer for cotton-pickers. No. 957,450; May 10; Sp. p. 2046; Gaz. vol. 154; p. 355.
Whitehead, Joseph, Farmington, Ill. Railway-tie. No. 952,718; Mar. 22; Sp. p. 4614; Gaz. vol. 152; p. 836.
Whitehead and Kales Iron Works, The. (See Kales, William R., assignor.)
Whitehead, Obe J., and F. J. Crocker, Commerce, Ga. Feed-roll stop-motion for carding-machines. No. 966,971; Aug. 9; Sp. p. 2453; Gaz. vol. 157; p. 403.
Whitehead, Philip B., Stockport, assignor of one-half to The Fine Cotton Spinners and Doublers Association Limited, Manchester, England. Doubling-frame. No. 976,761; Nov. 22; Sp. p. 5892; Gaz. vol. 160; p. 995.
Whitehill, David B., North Clarendon, Pa. Bailing-bucket for oil-wells. No. 952,393; Mar. 15; Sp. p. 3884; Gaz. vol. 152; p. 695.

Whitehorne-Cole, Arthur G., Brighton, England. Vaporizer for medicines. No. 948,153; Feb. 1; Sp. p. 772; Gaz. vol. 151; p. 127.
Whitehouse, John N., New York, N. Y., assignor to The Dusto Mfg. Co. Vacuum cleaning device. No. 946,832; Jan. 18; Sp. p. 4090; Gaz. vol. 150; p. 676.
Whitelaw Combined Endorsing Machine Company, The. (See Whitelaw, James H., assignor.)
Whitelaw, James H., Cleveland, Ohio. Combined tabulating and check-indorsing apparatus. No. 964,723; July 19; Sp. p. 3790; Gaz. vol. 156; p. 630.
Whitelaw, James H., assignor to The Whitelaw Combined Endorsing Machine Company, Cleveland, Ohio. Combined tabulating and indorsing apparatus. No. 964,724; July 19; Sp. p. 3793; Gaz. vol. 156; p. 630.
Whiteley, John H. (See Bent and Whiteley.)
Whitely, John W., Danbury, Conn. Clothes-washer. No. 971,232; Sept. 27; Sp. p. 4465; Gaz. vol. 158; p. 781.
Whitely, William N. and W. N., Jr., Springfield, Ohio. Manure-spreader. No. 950,547; Mar. 1; Sp. p. 176; Gaz. vol. 152; p. 30.
Whitely, William N., Jr. (See Whitely, William N. and W. N., Jr.)
Whitesell, David T. (See Peters, Francis T., assignor.)
Whiteway, William T., Cambridge, Mass. Plane-guide. No. 949,691; Feb. 15; Sp. p. 3965; Gaz. vol. 151; p. 691.
Whitfield, Harry A., New York, N. Y. Flash-light. No. 952,394; Mar. 15; Sp. p. 3885; Gaz. vol. 152; p. 695.
Whitin Machine Works, The. (See Aldrich, William O., assignor.)
Whiting Company, The. (See Whiting, Jasper, assignor.)
Whiting, Ezra T., Dartford, Wis. Horse-collar. No. 951,469; Mar. 8; Sp. p. 2057; Gaz. vol. 152; p. 356.
Whiting Foundry Equipment Company. (See McDougall, Andrew H., assignor.)
Whiting Foundry Equipment Company. (See Rodger, James B., assignor.)
Whiting Foundry Equipment Company. (See Rundle and McDougall, assignors.)
Whiting, George, and P. Parcells, assignors to George Whiting Company, Chicago, Ill. Punching and riveting machine. No. 966,876; Aug. 9; Sp. p. 2269; Gaz. vol. 157; p. 372.
Whiting, Horace H., Canton, Ohio. Filter-press. No. 964,725; July 19; Sp. p. 3796; Gaz. vol. 156; p. 631.
Whiting, Jasper, assignor to The Whiting Company, Boston, Mass. Decomposing salts. No. 951,228; Mar. 8; Sp. p. 1540; Gaz. vol. 152; p. 277.
Whiting, Jasper, assignor to The Whiting Company, Boston, Mass. Electrolytic cell. No. 951,229; Mar. 8; Sp. p. 1544; Gaz. vol. 152; p. 278.
Whiting, John T., assignor of one-half to A. B. Pierce, Syracuse, N. Y. Air-valve for radiators. No. 953,079; Mar. 29; Sp. p. 5359; Gaz. vol. 152; p. 986.
Whiting, Julius, Jr., trustee. (See Maxwell, Bert C., assignor.)
Whiting, Milton V., Denver, Colo. Grasshopper-catcher. No. 970,004; Sept. 13; Sp. p. 1867; Gaz. vol. 158; p. 317.
Whiting, Richard R., Norwood, Ohio. View-exhibiting apparatus. No. 963,841; July 12; Sp. p. 1829; Gaz. vol. 156; p. 301.
Whiting, Richard R., Norwood, Ohio. Card-exhibiting device. No. 979,117; Dec. 20; Sp. p. 3698; Gaz. vol. 161; p. 641.
Whitis, William T., *et al.* (See Brister, William T., assignor.)
Whitlatch Company, The. (See Whitlatch, Marshall, assignor.)
Whitlatch, Marshall, New York, N. Y. Drier. No. 948,751; Feb. 8; Sp. p. 2059; Gaz. vol. 151; p. 352.
Whitlatch, Marshall, Montclair, assignor to The Whitlatch Company, Jersey City, N. J. Drier. No. 952,775; Mar. 22; Sp. p. 4747; Gaz. vol. 152; p. 855.
Whitlatch, Marshall, Montclair, assignor to The Whitlatch Company, Jersey City, N. J. Device for treating fur. No. 956,247; Apr. 26; Sp. p. 5562; Gaz. vol. 153; p. 970.
Whitlatch, Russell W., Brooklyn, assignor to Raimes & Company, New York, N. Y. Soluble perfume-tablet. No. 962,872; June 28; Sp. p. 5554; Gaz. vol. 155; p. 971.
Whitley, William P., assignor to The Rawlings Manufacturing Company, St. Louis, Mo. Ball. No. 978,250; Dec. 13; Sp. p. 1808; Gaz. vol. 161; p. 316.
Whitlock, Charles H., Chatham, England. Apparatus or device for piercing sausages and the like. No. 969,230; Sept. 6; Sp. p. 186; Gaz. vol. 158; p. 30.
Whitlock Coil Pipe Company. (See Brinkman, Louis H., assignor.)
Whitlock Coil Pipe Company. (See Hyde and Gordon, assignors.)
Whitlock Printing Press Mfg. Co., The. (See Huson, Winfield S., assignor.)
Whitlock, Ross, Estancia, N. Mex. Wire-stretcher. No. 950,883; Mar. 1; Sp. p. 889; Gaz. vol. 152; p. 142.
Whitlock, Wilbur M., Newark, N. J. Steam-radiator. No. 955,300; Apr. 19; Sp. p. 3461; Gaz. vol. 153; p. 614.
Whitman, Harry A., Jermyn, Pa. Slate-picker. No. 958,343; May 17; Sp. p. 4255; Gaz. vol. 154; p. 694.
Whitman, Henry L., St. Louis, Mo. Baling-press. No. 954,067; Apr. 5; Sp. p. 772; Gaz. vol. 153; p. 134.
Whitman, Henry L., St. Louis, Mo. Baling-press. No. 967,594; Aug. 16; Sp. p. 3749; Gaz. vol. 157; p. 644.

Whitman, James N., Philadelphia, Pa., assignor of one-half to M. T. Reynolds, Albany, N. Y. Treating fine ores. No. 978,971; Dec. 20; Sp. p. 3355; Gaz. vol. 161; p. 590.
Whitman, John F., Belvidere, Ill. Breaking-cart. No. 967,473; Aug. 16; Sp. p. 3504; Gaz. vol. 157; p. 603.
Whitman, Marcellus, Vancouver, British Columbia, Canada. Sheave. No. 973,092; Oct. 18; Sp. p. 3486; Gaz. vol. 159; p. 602.
Whitman, Matilda S., St. John, New Brunswick, Canada. Device for teaching music. No. 964,593; July 19; Sp. p. 3425; Gaz. vol. 156; p. 585.
Whitmore, Charles M., Meriden, Conn. Card and photo holder. No. 962,397; June 21; Sp. p. 4515; Gaz. vol. 155; p. 779.
Whitmore, Claude C., Butte, Mont. Fume-arrester. No. 952,970; Mar. 22; Sp. p. 5127; Gaz. vol. 152; p. 921.
Whitmore, Daniel F., Trenton, N. J., assignor to The J. L. Mott Iron Works. Tank. No. 953,500; Mar. 29; Sp. p. 6291; Gaz. vol. 152; p. 1128.
Whitmore, Daniel F., Trenton, N. J., assignor to The J. L. Mott Iron Works. Constructing bent-wood tanks. No. 963,491; July 5; Sp. p. 1054; Gaz. vol. 156; p. 160.
Whitmore, Edward E., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain. No. 972,422; Oct. 11; Sp. p. 1963; Gaz. vol. 159; p. 344.
Whitmore, Fred A., Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Wire motion for looms. No. 960,211; May 31; Sp. p. 8187; Gaz. vol. 154; p. 1378.
Whitmore, Frederick B., Alta, Utah. Belt-clamp. No. 964,827; July 19; Sp. p. 3996; Gaz. vol. 156; p. 665.
Whitmore, John C. F., Mayfield, assignor of one-half to M. A. Whitmore, Jermyn, Pa. Chalk-line reel. No. 963,967; July 12; Sp. p. 2089; Gaz. vol. 156; p. 341.
Whitmore, John G., *et al.* (See Wilkins, Thomas M., assignor.)
Whitmore, Mary A. (See Whitmore, John C. F., assignor.)
Whitner, Richard H. (See Herndon, Emmett H., assignor.)
Whitney, Albert W., Berkeley, Cal. Combined table and tray-stand. No. 967,695; Aug. 16; Sp. p. 3941; Gaz. vol. 157; p. 677.
Whitney, Allen B., administrator. (See Kouns, Moses W.)
Whitney, Arthur L., San Francisco, Cal. Spout attachment for cans. No. 965,782; July 26; Sp. p. 6017; Gaz. vol. 156; p. 1022.
Whitney, Asa, Melbourne, Victoria, Australia. Rifle range, target, and the like. No. 953,501; Mar. 29; Sp. p. 6293; Gaz. vol. 152; p. 1128.
Whitney, Charles B., Hyde Park, Mass. Ball-cock. No. 979,235; Dec. 20; Sp. p. 3955; Gaz. vol. 161; p. 683.
Whitney, Charles N., Ellsworth, Me. Poultry-feeder. No. 963,968; July 12; Sp. p. 2090; Gaz. vol. 156; p. 341.
Whitney, Edwin H., assignor to Eddy Valve Company, Waterford, N. Y. Indicator-post for valves. No. 951,927; Mar. 15; Sp. p. 2993; Gaz. vol. 152; p. 542.
Whitney, Eli M., Norwich, Conn. Miter-cutter. No. 963,344; July 5; Sp. p. 763; Gaz. vol. 156; p. 112.
Whitney, Frederick E. (See McLaughlin, William C., assignor.)
Whitney, George F. (See Maslin, John, assignor.)
Whitney, Harry E., Anthony, Kans. Tobacco-pipe. No. 963,194; July 5; Sp. p. 424; Gaz. vol. 156; p. 60.
Whitney, Horace E., assignor to Dover Stamping and Manufacturing Company, Cambridge, Mass. Oil-can or tool box. No. 978,251; Dec. 13; Sp. p. 1809; Gaz. vol. 161; p. 317.
Whitney, John E. (See Lyons, John, assignor.)
Whitney Manufacturing Company, The. (See Belcher, Warren J., assignor.)
Whitney, Robert F., Winchester, Mass. Leather-wringing machine. No. 976,968; Nov. 29; Sp. p. 6398; Gaz. vol. 160; p. 1093.
Whitney, W. R., Schenectady, N. Y., assignor to General Electric Company. High-resistance iron alloy. No. 952,290; Mar. 15; Sp. p. 3696; Gaz. vol. 152; p. 661.
Whitney, William A., Rockford, Ill. Mechanical movement. No. 975,591; Nov. 15; Sp. p. 3370; Gaz. vol. 160; p. 572.
Whitney, William H., Jr., and C. W. Griffin, Brooklyn, N. Y. Composition of matter used as an interior finish for walls or ceilings. No. 969,432; Sept. 6; Sp. p. 595; Gaz. vol. 158; p. 95.
Whiton, Lucius E., New London, Conn. Scroll-chuck. No. 962,070; June 21; Sp. p. 3818; Gaz. vol. 155; p. 669.
Whiton, Lucius E., New London, Conn. Chuck. No. 966,629; Aug. 9; Sp. p. 1703; Gaz. vol. 157; p. 291.
Whiton, Lucius E., New London, Conn. Chuck. No. 966,630; Aug. 9; Sp. p. 1704; Gaz. vol. 157; p. 291.
Whitt, Robert D., McNeil, Ark. Harrow. No. 978,804; Dec. 13; Sp. p. 2977; Gaz. vol. 161; p. 504.
Whittaker, Thomas R., Lawrence, Mass. Feed-water regulator. No. 980,037; Dec. 27; Sp. p. 5663; Gaz. vol. 161; p. 975.
Whittall, Matthew J. (See Pearsall, William, assignor.)
Whittall, Matthew J., Worcester, Mass. Pile fabric and weaving the same. No. 948,384; Feb. 8; Sp. p. 1277; Gaz. vol. 151; p. 229.
Whittemore, Bennie, Albert Lea, Minn. Road-grading machine. No. 952,395; Mar. 15; Sp. p. 3888; Gaz. vol. 152; p. 696.
Whittemore, George A., *et al.* (See Ferris, Edgar S., assignor.)
Whittemore, John Q. A. (See Burke, Edward J., assignor.)
Whittemore, William C., Redlands, assignor of one-third to W. J. Leith, San Diego, Cal. Milk-bottle holder. No. 978,972; Dec. 20; Sp. p. 3356; Gaz. vol. 161; p. 590.
Whittemore, William H., East Orange, N. J., assignor to Strieby & Foote Company. Lineman's tool. No. 972,305; Oct. 11; Sp. p. 1728; Gaz. vol, 159; p. 303.
Whitten, George T., Hartford, Conn. Beehive-entrance guard and swarm-controller. No. 956,615; May 3; Sp. p. 232; Gaz. vol. 154; p. 40.
Whitten, Walter, Schenectady, N. Y. Telephone-transmitter. No. 951,864; Mar. 15; Sp. p. 2857; Gaz. vol. 152; p. 520.
Whittier, Heman J. (See Prescott and Whittier.)
Whittier, Mericos H., Los Angeles, Cal. Rotary well-boring box and pin. No. 964,353; July 12; Sp. p. 2865; Gaz. vol. 156; p. 473.
Whittier, Walter H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator-lining. No. 970,672; Sept. 20; Sp. p. 3281; Gaz. vol. 158; p. 565.
Whitting, Julius, Jr., trustee. (See Maxwell, Bert C., assignor.)
Whittingham, George H. (See O'Brien and Whittingham.)
Whittingham, George H., Baltimore, Md., assignor to Monitor Manufacturing Company of Baltimore City. Means for stopping electric motors. No. 965,670; July 26; Sp. p. 5776; Gaz. vol. 156; p. 983.
Whittingham, George H., Baltimore, Md., assignor to Monitor Manufacturing Company of Baltimore City. Reversing-switch. No. 965,671; July 26; Sp. p. 5779; Gaz. vol. 156; p. 983.
Whittingham, George H., Baltimore, Md., assignor to Monitor Manufacturing Company of Baltimore City. Apparatus for controlling electric motors. No. 965,672; July 26; Sp. p. 5783; Gaz. vol. 156; p. 984.
Whittingham, George H., Baltimore, Md., assignor to Monitor Manufacturing Company of Baltimore City. Controller for electric motors. No. 965,673; July 26; Sp. p. 5790; Gaz. vol. 156; p. 984.
Whittingham, George H., Baltimore, Md., assignor to Monitor Manufacturing Company of Baltimore City. Controlling means for electric motors. No. 965,674; July 26; Sp. p. 5795; Gaz. vol. 156; p. 985.
Whittingham, George H., Baltimore, Md., assignor to Monitor Manufacturing Company of Baltimore City, Motor-starter. No. 965,675; July 26; Sp. p. 5801; Gaz. vol. 156; p. 985.
Whittingham, George H., Baltimore, Md., assignor to Monitor Manufacturing Company of Baltimore City. Motor-controller. No. 965,676; July 26; Sp. p. 5804; Gaz. vol. 156; p. 986.
Whittingham, George H., and W. C. O'Brien, Baltimore, Md., assignors to Monitor Manufacturing Company of Baltimore City. Automatic motor-starter. No. 965,840; July 26; Sp. p. 6144; Gaz. vol. 156; p. 1042.
Whittles, Jeremiah C., deceased; W. Evans, executor, assignor to G. W. Tait, Kearny, N. J., administrator of E. E. Whittles. Selvage-feed for cloth-tentering machines. No. 970,697; Sept. 20; Sp. p. 3337; Gaz. vol. 158; p. 573.
Whittum, Annie A., executrix. (See Whittum, Edward.)
Whittum, Edward, deceased; A. A. Whittum, Fall River, executrix, assignor to L. T. Houghton, Worcester, Mass. Thread-board for spinning or twisting machines. No. 956,248; Apr. 26; Sp. p. 5563; Gaz. vol. 153; p. 970.
Whitty, George S., assignor to F. W. Devoe and C. T. Raynolds Company, New York, N. Y. Stenciling compound. No. 953,110; Mar. 29; Sp. p. 5452; Gaz. vol. 152; p. 996.
Whitty, Robert. (See Laas and Whitty.)
Whitty, Robert, Horicon, Wis., and E. Laas, Chicago, Ill. Railway weed-cutter. No. 974,452; Nov. 1; Sp. p. 861; Gaz. vol. 160; p. 127.
Whitworth, William J., North Bend, Oreg. Undercutter-support. No. 948,836; Feb. 8; Sp. p. 2242; Gaz. vol. 151; p. 380.
Whyte, George S., Chicago, Ill. Non-rotating wire rope. No. 952,161; Mar. 15; Sp. p. 3431; Gaz. vol. 152; p. 617.
Whyte, John D., Manchester, England. Means for twisting and cabling yarns. No. 968,723; Aug. 30; Sp. p. 6174; Gaz. vol. 157; p. 1079.
Whytock, William, Jr., Providence, R. I. Manufacturing strips of continuously-connected gem-settings. No. 950,524; Mar. 1; Sp. p. 137; Gaz. vol. 152; p. 22.
Wiard, Frederick H., Avon, N. Y. Washing-machine. No. 969,823; Sept. 13; Sp. p. 1474; Gaz. vol. 158; p. 255.
Wiard, Harry, Syracuse, N. Y. Sulky-plow. No. 946,928; Jan. 18; Sp. p. 4318; Gaz. vol. 150; p. 709.
Wiard, John B., Lynn, Mass., assignor to General Electric Company. Centrifugal switch. No. 945,997; Jan. 11; Sp. p. 2204; Gaz. vol. 150; p. 366.
Wiard, John B., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 977,768; Dec. 6; Sp. p. 772; Gaz. vol. 161; p. 119.

Alphabetical list of patentees—Continued.

Wiberg, John, New York, N. Y. Non-refillable bottle. No. 972,423; Oct. 11; Sp. p. 1964; Gaz. vol. 159; p. 345.
Wiberg, Sven H., Reading, assignor to Bong Binder Company, Boston, Mass. Temporary binder. No. 968,620; Aug. 30; Sp. p. 5924; Gaz. vol. 157; p. 1043.
Wible, James A., Oakdale, Pa. Spring-wheel. No. 976,762; Nov. 22; Sp. p. 5893; Gaz. vol. 160; p. 995.
Wichmann, Georg C. H. (See Evans and Wichmann.)
Wichrowski, Ignacy, New York, assignor of forty one-hundredths to C. Mullon, Brooklyn, N. Y. Steam-generator. No. 947,050; Jan. 18; Sp. p. 4540; Gaz. vol. 150; p. 749.
Wickblom, Peter J., Bishop Hill, Ill. Centrifugal pump. No. 959,089; May 24; Sp. p. 5812; Gaz. vol. 154; p. 974.
Wicker, Nathaniel O., Las Animas, Colo. Combined paper-weight and pen-extractor. No. 960,753; June 7; Sp. p. 1037; Gaz. vol. 155; p. 175.
Wickersham, Benjamin F., Patoka, Ill., assignor of one-third to T. B. Walker and J. Pugh. Rotary engine. No. 958,571; May 17; Sp. p. 4695; Gaz. vol. 154; p. 771.
Wickersham, Elmer E., Watsonville, Cal. Continuous-make gas apparatus. No. 972,486; Oct. 11; Sp. p. 2097; Gaz. vol. 159; p. 365.
Wickersham, Enoch G., assignor of one-half to F. M. McLaughlin, Portland, Ind. Hydrocarbon-burner. No. 958,344; May 17; Sp. p. 4256; Gaz. vol. 154; p. 694.
Wickersham, Theodore, Coatesville, Pa. Cover for garment-fastenings. No. 948,837; Feb. 8; Sp. p. 2243; Gaz. vol. 151; p. 381.
Wickes, Benjamin C., Auburn, N. Y. Thermostatic damper-regulating apparatus. No. 952,855; Mar. 22; Sp. p. 4905; Gaz. vol. 152; p. 883.
Wickes, Benjamin C., Auburn, N. Y. Damper-regulating mechanism. No. 964,892; July 19; Sp. p. 4136; Gaz. vol. 156; p. 688.
Wickes Brothers. (See Graham, John L., assignor.)
Wickes, William J., *et al.* (See Dorgan, William T., assignor.)
Wickey, Andrew, East Chicago, Ind. Baling-press. No. 977,913; Dec. 6; Sp. p. 1067; Gaz. vol. 161; p. 170.
Wickham, Horace J. (See Shepard and Wickham.)
Wickland, Louis P., Fremont, Ohio. Knife and nail-cleaner. No. 973,600; Oct. 25; Sp. p. 4581; Gaz. vol. 159; p. 799.
Wickord, Peter H. (See Gerth, Frank, assignor.)
Wicks, Albert E. (See Banta and Wicks.)
Wicks, Joseph B. (See Schmaal and Wicks.)
Wickwire, Charles C., Cortland, N. Y. Dust-separator. No. 948,082; Feb. 1; Sp. p. 632; Gaz. vol. 151; p. 103.
Wickwire, Charles C., Cortland, N. Y. Pumping mechanism. No. 952,594; Mar. 22; Sp. p. 4332; Gaz. vol. 152; p. 793.
Widaman, A. S., administrator. (See Timmerhoff, Ernest and F. F.)
Widby, Clarence R. (See Smith, Fredrick H., assignor.)
Widdows, Howard E. (See Lair and Widdows.)
Widdup, William R., Spartanburg, S. C., assignor to Draper Company, Hopedale, Mass. Automatic filling-replenishing loom. No. 967,282; Aug. 16; Sp. p. 3100; Gaz. vol. 157; p. 537.
Wideen, Knut C., assignor to Arc Spark Mfg. Co., New York, N. Y. Sparking plug. No. 967,283; Aug. 16; Sp. p. 3102; Gaz. vol. 157; p. 537.
Widell, Magnus E. (See Wassman and Widell.)
Widener, Leo A. G., New York, N. Y. Attachment-plug. No. 946,412; Jan. 11; Sp. p. 3168; Gaz. vol. 150; p. 510.
Widenmeyer, George, New York, N. Y. Bracelet and the like. No. 973,601; Oct. 25; Sp. p. 4583; Gaz. vol. 159; p. 800.
Widerman, Francis M., Woodlawn, Baltimore, Md. Machine for cutting ears of corn from the stalks. No. 948,601; Feb. 8; Sp. p. 1739; Gaz. vol. 151; p. 300.
Widmann, Rudolf, Munich, Germany. Preparing photographic pictures. No. 962,484; June 28; Sp. p. 4740; Gaz. vol. 155; p. 835.
Widmark, Frederick. (See Dufva, Knut O. and A. E., assignors.)
Widmer-Ackermann, Jakob, Zurich, Switzerland. Apparatus for molding liquids which solidify when cold. No. 953,249; Mar. 29; Sp. p. 5754; Gaz. vol. 152; p. 1042.
Wiebe Engineering Company. (See Wiebe, Sigurd, assignor.)
Wiebe, Sigurd, New York, N. Y., assignor of one-half to J. C. Quinn, Philadelphia, Pa. Internal-combustion engine. No. 966,972; Aug. 9; Sp. p. 2456; Gaz. vol. 157; p. 404.
Wiebe, Sigurd, Brooklyn, N. Y., assignor to Wiebe Engineering Company, New York, N. Y. Drying apparatus. No. 977,244; Nov. 29; Sp. p. 6994; Gaz. vol 160; p. 1189.
Wiebking, Hardinge & Co. (See Hardinge, Henry H., assignor.)
Wiechard, Friedrich, Hanover, Germany. Vehicle-wheel tire. No. 960,212; May 31; Sp. p. 8188; Gaz. vol. 154; p. 1378.
Wiechelman, Henry, Long Pine, Nebr. Road-scraper. No. 959,668; May 31; Sp. p. 7017; Gaz. vol. 154; p. 1192.
Wiedemann, Conrad, San Bruno, Cal. Traveling-bag or luggage-carrier. No. 954,840; Apr. 12; Sp. p. 2510; Gaz. vol. 153; p. 428.
Wiedemann, Theodore, and J. H. Templin, Philadelphia, Pa., assignors to Keller Manufacturing Company. Pumping air or other fluid. No. 956,839; May 3; Sp. p. 735; Gaz. vol. 154; p. 116.
Wiedemann, Theodore, and J. H. Templin, Philadelphia, Pa., assignors to Keller Manufacturing Company. Vacuum cleaning apparatus. No. 965,783; July 26; Sp. p. 6018; Gaz. vol. 156; p. 1022.
Wiedemann, Theodore, and J. H. Templin, Philadelphia, Pa., assignors to Keller Manufacturing Company. Vacuum-cleaner cover. No. 967,696; Aug. 16; Sp. p. 3943; Gaz. vol. 157; p. 677.
Wiedemer, Edward, Atlantic City, N. J. Music-leaf turner. No. 973,831; Oct. 25; Sp. p. 5068; Gaz. vol. 159; p. 881.
Wieden, Louis, New York, N. Y. Disinfecting apparatus. No. 945,657; Jan. 4; Sp. p. 1397; Gaz. vol. 150; p. 218.
Wiedermann, Fritz, assignor to "Vereinigte Chemische Werke" Actiengesellschaft, Charlottenburg, Germany. Manufacture of bleached soap. No. 968,438; Aug. 23; Sp. p. 5529; Gaz. vol. 157; p. 954.
Wiederseim, Theodore E., Jr., assignor to Ketterlinus Lithographic Manufacturing Company, Philadelphia, Pa. Display-card. No. 956,916; May 3; Sp. p. 908; Gaz. vol. 154; p. 144.
Wiederseim, William C., *et al.* (See Anck, John M., assignor.)
Wiedersheim, John A., *et al.* (See Anck, John M., assignor.)
Wiedersheim, John A., Philadelphia, Pa. Fender for cars and other vehicles. No. 946,180; Jan. 11; Sp. p. 2580; Gaz. vol. 150; p. 428.
Wiedersheim, John A., Philadelphia, Pa. Fender for cars. No. 969,586; Sept. 6; Sp. p. 943; Gaz. vol. 158; p. 149.
Wiegand, Cris W., Chicago, Ill. Heating system and furnace. No. 952,776; Mar. 22; Sp. p. 4750; Gaz. vol. 152; p. 855.
Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Rheostat. No. 949,923; Feb. 22; Sp. p. 4519; Gaz. vol. 151; p. 807.
Wiegand, Pauline, New York, N. Y. Food boiler and steamer. No. 948,198; Feb. 1; Sp. p. 852; Gaz. vol. 151; p. 140.
Wiegand, Wilhelm, Merseburg, assignor to R. Rieder, Frankfort-on-the-Main, Germany. Apparatus for making extracts. No. 979,362; Dec. 20; Sp. p. 4201; Gaz. vol. 161; p. 724.
Wieland, William F., *et al.* (See Olds, Frederick P., assignor.)
Wielgolaski, Frans H. A., Kragerö, Norway. Dressing ores. No. 953,309; Mar. 29; Sp. p. 5866; Gaz. vol. 152; p. 1059.
Wiemer, Charles D., Los Angeles, Cal. Switch mechanism. No. 978,805; Dec. 13; Sp. p. 2978; Gaz. vol. 161; p. 504.
Wiemer, Otto, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Laminated transformer-core. No. 970,587; Sept. 20; Sp. p. 3074; Gaz. vol. 158; p. 536.
Wienand, Friedrich A., Pforzheim, Germany. Artificial teeth. No. 965,266; July 26; Sp. p. 4881; Gaz. vol. 156; p. 843.
Wienand, Heinrich, Frankfort-on-the-Main, Germany. Composition for use in burning artificial teeth. No. 965,267; July 26; Sp. p. 4882; Gaz. vol. 156; p. 843.
Wiens, Arnold, Bitterfeld, assignor to Elektrochemische Werke, G. m. b. H., Berlin-Bitterfeld, Germany. Reduction of ores containing sulfur and iron. No. 973,732; Oct. 25; Sp. p. 4873; Gaz. vol. 159; p. 847.
Wiens, Arnold, assignor to Electrochemische Werke, G. m. b. H., Bitterfeld, Germany. Making oxalates from formates. No. 973,832; Oct. 25; Sp. p. 5070; Gaz. vol. 159; p. 882.
Wiese, John E., Spearville, Kans. Swingletree-hook. No. 959,983; May 31; Sp. p. 7711; Gaz. vol. 154; p. 1299.
Wiesenfeld, Robert S., Baltimore, Md. Hat-guard. No. 956,917; May 3; Sp. p. 910; Gaz. vol. 154; p. 144.
Wiesinger, Richard, Adrian, Mich., assignor to W. G. Nagel, Toledo, Ohio. Electrical-circuit protector. No. 946,413; Jan. 11; Sp. p. 3169; Gaz. vol. 150; p. 510.
Wiesner, William. (See Peterman, William, assignor.)
Wiest, Martin J., Govans, Md. Sewage-disposal plant. No. 962,606; June 28; Sp. p. 5015; Gaz. vol. 155; p. 877.
Wiest, Peter C., York, Pa. Tire-remover. No. 959,669; May 31; Sp. p. 7018; Gaz. vol. 154; p. 1192.
Wiest, Peter C., York, Pa. Valve-remover. No. 977,245; Nov. 29; Sp. p. 6995; Gaz. vol. 160; p. 1189.
Wiggington, George P., and F. W. Hodges, assignors to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder or loose-leaf holder. No. 979,622; Dec. 27; Sp. p. 4765; Gaz. vol. 161; p. 837.
Wiggins, Edward J., assignor, by mesne assignments, to Kerogas Company, Chicago, Ill. Preparing liquid hydrocarbon for combustion. No. 964,893; July 19; Sp. p. 4139; Gaz. vol. 156; p. 689.
Wiggins, Edward J., assignor to Knu Light Heat and Power Company, Chicago, Ill. Gas-lamp. No. 971,581; Oct. 4; Sp. p. 151; Gaz. vol. 159; p. 28.

Alphabetical list of patentees—Continued.

Wiggins, John L., Dallas, Tex. Machine for forming continuous pipe. No. 952,489; Mar. 22; Sp. p. 4107; Gaz. vol. 152; p. 756.

Wiggins, John L., Dallas, Tex. Irrigation-pipe. No. 953,080; Mar. 29; Sp. p. 5361; Gaz. vol. 152; p. 986.

Wiggins, John L., Dallas, Tex., assignor to The National Land and Sub-Irrigation Company. Apparatus for making and laying continuous concrete pipe. No. 952,488; Mar. 22; Sp. p. 4104; Gaz. vol. 152; p. 756.

Wiggins, Robert A., and C. Bristow, Christchurch, New Zealand. Milking machinery. No. 955,732; Apr. 19; Sp. p. 4417; Gaz. vol. 153; p. 762.

Wigglesworth, Albert W., Chicago, Ill. Turret-machine. No. 969,433; Sept. 6; Sp. p. 596; Gaz. vol. 158; p. 95.

Wigglesworth, Albert W., Chicago, Ill. Driving-gear mechanism. No. 972,587; Oct. 11; Sp. p. 2353; Gaz. vol. 159; p. 402.

Wigglesworth, Albert W., Wilmette, Ill. Work-feeding device for metal-working and other machines. No. 972,588; Oct. 11; Sp. p. 2360; Gaz. vol. 159; p. 403.

Wight, Richard C., Richmond, Va. Stencil-machine. No. 949,558; Feb. 15; Sp. p. 3724; Gaz. vol. 151; p. 648.

Wight, William L., assignor to Southern Manufacturing Company, Richmond, Va. Can-feeding device. No. 945,658; Jan. 4; Sp. p. 1398; Gaz. vol. 150; p. 218.

Wightman, Charles. (See Fish and Wightman.)

Wightman, Richard, New York, N. Y. Advertising device. No. 951,586; Mar. 8; Sp. p. 2279; Gaz. vol. 152; p. 395.

Wightman, Sherburne H., Cleveland, assignor of one-half to H. C. Kelley, East Cleveland, Ohio. Building-block. No. 948,752; Feb. 8; Sp. p. 2064; Gaz. vol. 151; p. 352.

Wightman, William T., Half Moon Bay, Cal. Hinge. No. 969,926; Sept. 13; Sp. p. 1689; Gaz. vol. 158; p. 291.

Wigzell, Eustace E., London, England. Stamp and ticket vending machine. No. 955,032; Apr. 12; Sp. p. 2913; Gaz. vol. 153; p. 493.

Wikander, Anders J., South Windham, Conn., assignor of one-half to A. T. Johnson, Brooklyn, N. Y. Bag-making machine. No. 945,832; Jan. 11; Sp. p. 1839; Gaz. vol. 150; p. 308.

Wikander, Anders J., South Windham, Conn., assignor of one-half to A. T. Johnson, Brooklyn, N. Y. Gearing. No. 978,252; Dec 13; Sp. p. 1810; Gaz. vol. 161; p. 317.

Wikander, Charles N., Dryad, Wash. Scissors. No. 946,414; Jan. 11; Sp. p. 3173; Gaz. vol. 150; p. 511.

Wikander, Ragnar, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnet. No. 977,577; Dec. 6; Sp. p. 371; Gaz. vol. 161; p. 54.

Wike, Perl H., Barry, Ill. Indicator. No. 968,300; Aug. 23; Sp. p. 5260; Gaz. vol. 157; p. 905.

Wikström, Georg A., Abo, Russia. Stove for heating buildings or the like purposes. No. 954,153; Apr. 5; Sp. p. 976; Gaz. vol. 153; p. 164.

Wiktorin, Heinrich, Vienna, Austria-Hungary. Incandescent lamp for vaporized-liquid combustibles. No. 959,091; May 24; Sp. p. 5815; Gaz. vol. 154; p. 974.

Wilber, Herbert I., Dorchester, Mass. Rotary gas-engine. No. 973,833; Oct. 25; Sp. p. 5071; Gaz. vol. 159; p. 882.

Wilber, Louisa M., Buffalo, N. Y. Water-motor. No. 974,221; Nov. 1; Sp. p. 261; Gaz. vol. 160; p. 44.

Wilber, Wallace E. (See Snell and Wilber.)

Wilbur, Burt, Syracuse, N. Y. Horseshoe. No. 960,754; June 7; Sp. p. 1039; Gaz. vol. 155; p. 175.

Wilbur, Lawrence H., assignor to H. O. Wilbur and Sons, Inc., Philadelphia, Pa. Wrapping-machine. No. 974,453; Nov. 1; Sp. p. 864; Gaz. vol. 160; p. 127.

Wilbur, Peter L., New York, N. Y. Air-operated fire-extinguisher. No. 951,625; Mar. 8; Sp. p. 2358; Gaz. vol. 152; p. 408.

Wilburn, William S., Simmons, Mo. Cultivator. No. 976,020; Nov. 15; Sp. p. 4235; Gaz. vol. 160; p. 718.

Wilcke, Lucy. (See Trippensee, William F., assignor.)

Wilcox, Albert, Wheeling, W. Va. Cream-dipper. No. 950,525; Mar. 1; Sp. p. 139; Gaz. vol. 152; p. 23.

Wilcox, Charles S. (See Lesley, Frank E., assignor.)

Wilcox, Crittenden and Company. (See Hoops, Thomas, Jr., assignor.)

Wilcox, Elmer S. (See Macking, Nicholas, assignor.)

Wilcox, Ernest C., and B. L. Lawton, Meriden, Conn. Shock-absorber. No. 947,477; Jan. 25; Sp. p. 5531; Gaz. vol. 150; p. 920.

Wilcox, Frank E., Mechanicsburg, Pa. Vehicle-gear. No. 977,769; Dec. 6; Sp. p. 773; Gaz. vol. 161; p. 120.

Wilcox, Horace C., Hazleton, Pa. Electric alarm-clock. No. 957,397; May 10; Sp. p. 1942; Gaz. vol. 154; p. 336.

Wilcox, Horace C., Hazleton, Pa. Time-controlling mechanism. No. 957,398; May 10; Sp. p. 1945; Gaz. vol. 154; p. 337.

Wilcox, Jacob, Washington township, Franklin county, Ohio. Ground-anchor. No. 972,306; Oct. 11; Sp. p. 1731; Gaz. vol. 159; p. 303.

Wilcox, Joseph, Athol, Mass. Making toilet articles for personal wear. No. 951,497; Mar. 8; Sp. p. 2112; Gaz. vol. 152; p. 366.

Wilcox, Joseph, Athol, Mass. Apparatus for making combs, &c. No. 956,560; May 3; Sp. p. 111; Gaz. vol. 154; p. 21.

Wilcox, Joseph, Athol, Mass. Apparatus for making toilet articles for personal wear. No. 971,712; Oct. 4; Sp. p. 418; Gaz. vol. 159; p. 73.

Wilcox, Luther J., Seattle, Wash. Trunk-harness. No. 966,631; Aug. 9; Sp. p. 1705; Gaz. vol. 157; p. 291.

Wilcox Manufacturing Company. (See Prouty, Theodore C., assignor.)

Wilcox, Richard L. (See Griggs and Wilcox.)

Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Drilling-machine. No. 951,296; Mar. 8; Sp. p. 1688; Gaz. vol. 152; p. 299.

Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Bifurcating-machine. No. 955,373; Apr. 19; Sp. p. 3622; Gaz. vol. 153; p. 639.

Wilcox & White Company, The. (See Gunton, Frank W., assignor.)

Wilcox & White Company, The. (See Hosley, Nelson D., assignor.)

Wilcox & White Company, The. (See Van Yorx, Percival K., assignor.)

Wilcox & White Company, The. (See White, Frank C., assignor.)

Wild, Charles, and C. Mahan, Baltimore, Md. Apparatus for coating candies with sugar. No. 945,355; Jan. 4; Sp. p. 762; Gaz. vol. 150; p. 117.

Wild, Daniel N., Cedar Falls, Iowa. Spindle step-bearing. No. 972,743; Oct. 11; Sp. p. 2684; Gaz. vol. 159; p. 455.

Wild, Frederick W., Jr., Baltimore, Md. Labeling-machine. No. 951,774; Mar. 8; Sp. p. 2659; Gaz. vol. 152; p. 460.

Wildbur, Bernice. (See Lawson and Wildbur.)

Wildbur, Robert S. (See Lawson and Wildbur.)

Wilde, James E., Chester, Pa. Anchor. No. 957,830; May 10; Sp. p. 2805; Gaz. vol. 154; p. 482.

Wilde, Lewis M., North Walpole, N. H. Sanctuary-lamp. No. 959,412; May 24; Sp. p. 6449; Gaz. vol. 154; p. 1079.

Wilde, William J., Hazleton, Pa. Vehicle-brake. No. 954,711; Apr. 12; Sp. p. 2183; Gaz. vol. 153; p. 381.

Wilder, Cary C., Denver, Colo. Garbage and ash receiver. No. 966,145; Aug. 2; Sp. p. 624; Gaz. vol. 157; p. 102.

Wilder, Edward S., assignor to Wilder-Strong Implement Company, Monroe, Mich. Land-roller. No. 953,771; Apr. 5; Sp. p. 178; Gaz. vol. 153; p. 33.

Wilder, Mary E., Tehama county, Cal. Bed-spring appliance. No. 959,670; May 31; Sp. p. 7019; Gaz. vol. 154; p. 1192.

Wilder-Strong Implement Company. (See Stoner, Frank, assignor.)

Wilder-Strong Implement Company. (See Wilder, Edward S., assignor.)

Wilderspin, Anderson, Grand Saline, assignor of one-half to D. C. Earnest, Dallas, Tex. Grate-bar. No. 962,805; June 28; Sp. p. 5424; Gaz. vol. 155; p. 947.

Wilderspin, Anderson, Grand Saline, assignor of one-half to D. C. Earnest, Dallas, Tex. Grate-bar. No. 972,965; Oct. 18; Sp. p. 3216; Gaz. vol. 159; p. 559.

Wildey, Edward M., Caversham, Dunedin, New Zealand. Printing-machine. No. 962,542; June 28; Sp. p. 4866; Gaz. vol. 155; p. 855.

Wilding, Joseph, Kasper, S. D. Harrow. No. 951,297; Mar. 8; Sp. p. 1691; Gaz. vol. 152; p. 299.

Wildman, Frank B., Norristown, Pa. Fabric-cutting device for knitting-machines. No. 960,755; June 7; Sp. p. 1041; Gaz. vol. 155; p. 175.

Wildman Manufacturing Company. (See Ballard, George L., assignor.)

Wildman, O. (See Meredith, Byron W., assignor.)

Wildner, Valentine, Chicago, Ill. Demountable tire. No. 970,005; Sept. 13; Sp. p. 1868; Gaz. vol. 158; p. 318.

Wile, Julius I. (See Sandner, Erich, assignor.)

Wile, Raymond S., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Reduction of scruff and dross. No. 947,723; Jan. 25; Sp. p. 6023; Gaz. vol. 150; p. 1003.

Wileman, Emery R. and W. H., and J. C. Clement, Woodruff, Kans. Combination lifting-jack and wire-stretcher. No. 964,594; July 19; Sp. p. 3427; Gaz. vol. 156; p. 585.

Wileman, Winfred H. (See Wileman and Clement.)

Wileman, Winfred H., Woodruff, Kans. Attachment for hydrants. No. 959,092; May 24; Sp. p. 5817; Gaz. vol. 154; p. 975.

Wiler, Carl, Chicago, Ill., assignor, by mesne assignments, to General Electric Company. Means for measuring current in three-phase systems. No. 977,061; Nov. 29; Sp. p. 6585; Gaz. vol. 160; p. 1124.

Wiley, Alvin H., and J. E. A. Banger, Linden, Tex. Clothes-pin. No. 970,867; Sept. 20; Sp. p. 3708; Gaz. vol. 158; p. 633.

Wiley, Brent, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Operating means for rolling-mills. No. 967,284; Aug. 16; Sp. p. 3103; Gaz. vol. 157; p. 537.

Wiley, Charles W., Winterport, Me., assignor of three-fifths to R. L. Wiley, Springville, N. Y. Floor-surfacing device. No. 959,281; May 24; Sp. p. 6202; Gaz. vol. 154; p. 1036.

Wiley, Ralph L. (See Wiley, Charles W., assignor.)

Alphabetical list of patentees—Continued.

Wiley, Roy R. and W. K., and W. S. Hough, Jr., St. Catherines, Ontario, Canada. Illuminated sign. No. 948,557; Feb. 8; Sp. p. 1645; Gaz. vol. 151; p. 287.
Wiley, Wallace K. (See Wiley and Hough.)
Wilfley, Arthur R., Denver, Colo., assignor of one-half to J. Seep, Scranton, Pa. Ore-roaster. No. 969,927; Sept. 13; Sp. p. 1690; Gaz. vol. 158; p. 291.
Wilfley, Arthur R., assignor to The Mine and Smelter Supply Company, Denver, Colo. Concentrating-table. No. 970,283; Sept. 13; Sp. p. 2445; Gaz. vol. 158; p. 412.
Wilfong, Andrew J., Knoxville, Iowa. Extensible mail-box support. No. 970,588; Sept. 20; Sp. p. 3075; Gaz. vol. 158; p. 536.
Wilgus, William J., New York, N. Y. Automatic stopping mechanism for railway-trains. No. 946,298; Jan. 11; Sp. p. 2834; Gaz. vol. 150; p. 471.
Wilgus, William J., New York, N. Y. Automatic stopping mechanism for railway-trains. No. 946,415; Jan. 11; Sp. p. 3174; Gaz. vol. 150; p. 511.
Wilhelm, Joseph, Moose Jaw, Saskatchewan, Canada. Grain-pickler. No. 946,929; Jan. 18; Sp. p. 4321; Gaz. vol. 150; p. 709.
Wilhelmi, Valentin, Paterson, N. J. Range-boiler. No. 946,299; Jan. 11; Sp. p. 2843; Gaz. vol. 150; p. 471.
Wilhite, Bertnie M., and L. Oberwetter, Gordon, Nebr. Hame and trace connector. No. 977,914; Dec. 6; Sp. p. 1071; Gaz. vol. 161; p. 170.
Wilke, Carl, Sheffield, assignor to Simon-Carves Bye-Product Coke Oven Construction and Working Company Limited, Manchester, England. Vertical-flue coke-oven. No. 946,181; Jan. 11; Sp. p. 2583; Gaz. vol. 150; p. 429.
Wilken, Walter W., *et al.* (See Bryant, William A., assignor.)
Wilkens, Wilhelm, Brunswick, Germany. Rail-support. No. 951,928; Mar. 15; Sp. p. 2995; Gaz. vol. 152; p. 542.
Wilkerson, Thurston A., Bonham, Tex. Roof-climber. No. 974,941; Nov. 8; Sp. p. 1961; Gaz. vol. 160; p. 323.
Wilkes, Elizabeth A., assignor to Weston & Wells Manufacturing Company, Philadelphia, Pa. Hammock device. No. 951,894; Mar. 15; Sp. p. 2927; Gaz. vol. 152; p. 529.
Wilkes, Joseph C., Athens, Ohio. Hen's nest. No. 950,419; Feb. 22; Sp. p. 5566; Gaz. vol. 151; p. 976.
Wilkie, Boyd, Mount Vernon, N. Y. Apparatus for filtering sewage. No. 968,015; Aug. 23; Sp. p. 4626; Gaz. vol. 157; p. 808.
Wilkie, Fred, Newark, N. J. Machine for making flexible tubing. No. 964,595; July 19; Sp. p. 3429; Gaz. vol. 156; p. 586.
Wilkie, John W., and R. Wilson, Birkenhead, England. Apparatus for distributing disinfectants. No. 945,255; Jan. 4; Sp. p. 521; Gaz. vol. 150; p. 85.
Wilkin, John T., assignor to The Connersville Blower Co., Connersville, Ind. Vacuum-pump. No. 958,345; May 17; Sp. p. 4257; Gaz. vol. 154; p. 695.
Wilkin, William M., Erie, Pa. Gang-saw mill. No. 960,472; June 7; Sp. p. 462; Gaz. vol. 155; p. 78.
Wilkins, Albert A., Middleton, assignor of one-half to F. R. and C. E. Campbell, Lynn, Mass. Incandescent electric lamp. No. 978,094; Dec. 6; Sp. p. 1447; Gaz. vol. 161; p. 234.
Wilkins, Benjamin H. (See Cole, William, assignor.)
Wilkins, Charles L., Columbus, Ohio. Motor. No. 976,763; Nov. 22; Sp. p. 5894; Gaz. vol. 160; p. 996.
Wilkins, George L., Chicago, Ill. Casement-window adjuster. No. 961,565; June 14; Sp. p. 2746; Gaz. vol. 155; p. 475.
Wilkins, James S., Preston, Cuba. Transportation system. No. 973,834; Oct. 25; Sp. p. 5077; Gaz. vol. 159; p. 882.
Wilkins, John H., Newark, N. J. Lock. No. 956,561; May 3; Sp. p. 114; Gaz. vol. 154; p. 21.
Wilkins, Thomas M., East Randolph, N. Y., assignor to Ziermore Regulator Company, Johnsonburg, Pa. Valve-regulator. No. 975,915; Nov. 15; Sp. p. 4049; Gaz. vol. 160; p. 682.
Wilkins, Thomas M., East Randolph, N. Y., assignor to Ziermore Regulator Company, Johnsonburg, Pa. Valve-regulator. No. 976,713; Nov. 22; Sp. p. 5780; Gaz. vol. 160; p. 978.
Wilkins, Thomas M., East Randolph, N. Y., assignor of five-sixteenths to W. E. Zierden, Johnsonburg, one-fourth to J. G. Whitmore, Ridgway, and seven-sixteenths to Ziermore Regulator Company, Johnsonburg, Pa. Fluid-pressure valve-regulator. No. 970,284; Sept. 13; Sp. p. 2446; Gaz. vol. 158; p. 412.
Wilkins, Thomas M., East Randolph, N. Y., assignor of five-sixteenths to W. E. Zierden, Johnsonburg, one-fourth to J. G. Whitmore, Ridgway, and seven-sixteenths to Ziermore Regulator Company, Johnsonburg, Pa. Fluid-pressure-valve regulator. No. 972,744; Oct. 11; Sp. p. 2686; Gaz. vol. 159; p. 456.
Wilkins, William G. (See Abbott, William O., assignor.)
Wilkinson, Albert R., Lebanon, N. H. Bark-removing process. No. 966,503; Aug. 9; Sp. p. 1414; Gaz. vol. 157; p. 248.
Wilkinson, Ephraim M., Oswego, N. Y. Boiler. No. 977,915; Dec. 6; Sp. p. 1072; Gaz. vol. 161; p. 170.
Wilkinson, Frank B., Hillman, Mich. Chimney-lining. No. 954,234; Apr. 5; Sp. p. 1153; Gaz. vol. 153; p. 192.
Wilkinson, George, Philadelphia, Pa., assignor to Wilkinson Water Purifying Company. System of purifying feed-water. No. 977,578; Dec. 6; Sp. p. 372; Gaz. vol. 161; p. 55.
Wilkinson, John A., New York, N. Y. Sharpener for cutlery. No. 948,362; Feb. 8; Sp. p. 1214; Gaz. vol. 151; p. 222.
Wilkinson, John A., assignor of three-fourths to J. C. Pennie and one-fourth to A., Jr., and E. P. Wanner, New York, N. Y. Chair. No. 972,487; Oct. 11; Sp. p. 2100; Gaz. vol. 159; p. 366.
Wilkinson, Nathan, Milwaukee, Wis., assignor to Allis-Chalmers Company. Resistance-grid. No. 945,116; Jan. 4; Sp. p. 226; Gaz. vol. 150; p. 38.
Wilkinson Plough Company, The, *et al.* (See Miller, Calvin P., assignor.)
Wilkinson, Samuel, Osceola Mills, Pa. Car-wheel. No. 979,051; Dec. 20; Sp. p. 3528; Gaz. vol. 161; p. 617.
Wilkinson, Sydney J. C., Johannesburg, Transvaal. Means for attaching bottle-closures. No. 965,784; July 26; Sp. p. 6023; Gaz. vol. 156; p. 1023.
Wilkinson, Sydney W., and W. Gregory, Hathersage, near Sheffield, and E. C. and R. Jenkins, Birkenhead, England. Spring locking-washer. No. 966,973; Aug. 9; Sp. p. 2458; Gaz. vol. 157; p. 405.
Wilkinson, Theodore S., Jr. (See Affleck, Edward G., assignor.)
Wilkinson, Walter S., Wytheville, Va., and G. B. Upham, Boston, Mass. Life-preserver. No. 960,129; May 31; Sp. p. 8029; Gaz. vol. 154; p. 1349.
Wilkinson Water Purifying Company. (See Wilkinson, George, assignor.)
Wilkinson, William, Saltley, Birmingham, England. Radiator. No. 948,083; Feb. 1; Sp. p. 634; Gaz. vol. 151; p. 103.
Wilkinson, William A., Minneapolis, Minn., and A. H. Irving, Spokane, Wash. Friction-clutch. No. 978,253; Dec. 13; Sp. p. 1815; Gaz. vol. 161; p. 317.
Wilkison, Gershom C., Rosewood, Ohio. Wire-fastener. No. 969,231; Sept. 6; Sp. p. 187; Gaz. vol. 158; p. 31.
Wilks, Chance, Little Elm, Tex. Corn or cotton planter. No. 958,204; May 17; Sp. p. 3818; Gaz. vol. 154; p. 645.
Will, Anthony. (See Dietz, Herman F., assignor.)
Will, Daniel R., Ava, Ill. Railway-tie. No. 955,928; Apr. 26; Sp. p. 4853; Gaz. vol. 153; p. 858.
Will, Glenn D., Eureka, Cal. Oil-burner. No. 947,363; Jan. 25; Sp. p. 5248; Gaz. vol. 150; p. 884.
Will, Hugo. (See Hansley and Will.)
Willard, Harvey R., Chicago, Ill. Testing device for spark-plugs. No. 966,146; Aug. 2; Sp. p. 625; Gaz. vol. 157; p. 103.
Willard, Rathbun, Providence, R. I., assignor to A. T. Wall Company. Safety-catch. No. 964,075; July 12; Sp. p. 2307; Gaz. vol. 156; p. 380.
Willcox and Gibbs Sewing Machine Company. (See Merritt and Noble, assignors.)
Wille, Christian F., West Alton, Mo. Four-horse equalizer. No. 969,928; Sept. 13; Sp. p. 1693; Gaz. vol. 158; p. 291.
Wille, Frank X., Spokane, Wash. Wall-tile. No. 973,243; Oct. 18; Sp. p. 3833; Gaz. vol. 159; p. 655.
Wille, Martin, Chicago, Ill. Roller-bearing axle. No. 946,182; Jan. 11; Sp. p. 2585; Gaz. vol. 150; p. 429.
Willet, John G., assignor of eighteen one-hundredths to I. Michael, eighteen one-hundredths to E. Michael, eighteen one-hundredths to C. L. Ingham, and eighteen one-hundredths to E. C. Lufkin, Buffalo, N. Y. Pump. No. 957,451; May 10; Sp. p. 2049; Gaz. vol. 154; p. 355.
Willet, John G., assignor of eighteen one-hundredths to I. Michael, eighteen one-hundredths to E. Michael, eighteen one-hundredths to C. L. Ingham, and eighteen one-hundredths to E. C. Lufkin, Buffalo, N. Y. Carbureter. No. 979,908; Dec. 27; Sp. p. 5397; Gaz. vol. 161; p. 933.
Willet, Omer A., Lawrence, Mass. Curtain-hanger. No. 978,095; Dec. 6; Sp. p. 1448; Gaz. vol. 161; p. 234.
Willett, Harvey S., Kenny, Cal. Saw-handle. No. 972,307; Oct. 11; Sp. p. 1732; Gaz. vol. 159; p. 304.
Willett, James F. (See Douglass and Willett.)
Willett, L. W. (See Ziegler, John W., assignor.)
Willette, Charles W., Seattle, Wash. Driving mechanism. No. 956,658; May 3; Sp. p. 328; Gaz. vol. 154; p. 54.
Willetts, Enos. (See Sellick, Robert, assignor.)
Willetts, William R., assignor to American Pin Company, Waterbury, Conn. Pipe-coupling. No. 954,068; Apr. 5; Sp. p. 775; Gaz. vol. 153; p. 134.
Willey, Charles W., Birnie, Manitoba, Canada. Mechanical stoker. No. 951,712; Mar. 8; Sp. p. 2513; Gaz. vol. 152; p. 437.
Willey, Leland M., Schenectady, N. Y., assignor to General Electric Company. Metal-plating. No. 955,446; Apr. 19; Sp. p. 3775; Gaz. vol. 153; p. 663.
Willey, R. H., *et al.* (See Houze, Luke, assignor.)
Willi, Theodore, assignor of one-half to E. G. Pease, Dayton, Ohio. Mechanical movement. No. 959,826; May 31; Sp. p. 7353; Gaz. vol. 154; p. 1244.
William B. Kerr Company, The. (See Nock, Rupert A., assignor.)
William B. Pollock Company, The. (See Sherman, Erwin C., assignor.)

William Beehler, Incorporated. (See Beehler, William H., assignor.)
William Cramp & Sons Ship & Engine Building Company, The. (See Carr, Edward P., assignor.)
William Eastwood & Son Co. (See Eastwood, Albert B., assignor.)
William, Edward L., Mount Sterling, Ky. Hinge. No. 952,059; Mar. 15; Sp. p. 3244; Gaz. vol. 152; p. 584.
William Galloway Company. (See Butler, Clinton C., assignor.)
William J. Oliver Manufacturing Company. (See Sites, Robert L., assignor.)
William M. Crane Company. (See Brock, John M., assignor.)
William Mann Company. (See Glendinning, Thomas A., assignor.)
William Schollhorn Company, The. (See Bernard, William A., assignor.)
William Sellers & Company. (See Burt, John, assignor.)
William, Shakespeare, Jr., Company. (See Shakespeare, William, Jr., assignor.)
William Shakespeare, Jr., Company. (See Shakespeare and Russell, assignors.)
William, Thomas J., assignor of one-half to J. Martin, Washington, D. C. Chain or chain-link. No. 977,355; Nov. 29; Sp. p. 7209; Gaz. vol. 160; p. 1226.
William Wharton, Jr., & Company, Incorporated. (See Cooke, Warner B., assignor.)
Williams, Albert E., Jersey City, N. J. Purification of liquids. No. 960,608; June 7; Sp. p. 747; Gaz. vol. 155; p. 123.
Williams, Alfred, Streatham, assignor to C. H. Howe, London, England. Valve and cock. No. 963,842; July 12; Sp. p. 1832; Gaz. vol. 156; p. 301.
Williams, Alphonso, Quincy, Mass. Cap. No. 949,870; Feb. 22; Sp. p. 4398; Gaz. vol. 151; p. 788.
Williams, Arthur G., Sidney, N. Y. Joint-cover. No. 946,183; Jan. 11; Sp. p. 2586; Gaz. vol. 150; p. 429.
Williams, Augustus C., Brookfield, Mo. Hydrocarbon-burner. No. 963,969; July 12; Sp. p. 2091; Gaz. vol. 156; p. 342.
Williams, Austin D., Roseville, Cal. Ironing-board. No. 960,213; May 31; Sp. p. 8189; Gaz. vol. 154; p. 1378.
Williams, Austin D., Roseville, Cal. Lubricator. No. 974,222; Nov. 1; Sp. p. 262; Gaz. vol. 160; p. 44.
Williams Automatic Funnel Company, The. (See Williams, Henry M., assignor.)
Williams, Benjamin A., assignor of one-half to W. F. Ruwell, Philadelphia, Pa. Cigar-wrapper cutting and rolling machine. No. 964,076; July 12; Sp. p. 2308; Gaz. vol. 156; p. 380.
Williams, Benjamin F. (See Burdick, Fulton, and Williams.)
Williams, Bradford L., Camden, N. J. Stain or grease removing device. No. 970,673; Sept. 20; Sp. p. 3283; Gaz. vol. 158; p. 565.
Williams, Brown, and Earle. (See Brown, Nathaniel H., assignor.)
Williams, Charles E. (See Bedford, Fred, assignor.)
Williams, Charles E., Boston, Mass. Audiphone-receiver. No. 945,429; Jan. 4; Sp. p. 917; Gaz. vol. 150; p. 143.
Williams, Charles E., Boston, Mass. Portable audiphone-transmitter. No. 945,430; Jan. 4; Sp. p. 919; Gaz. vol. 150; p. 143.
Williams, Charles E., assignor to Bay State Tap and Die Company, Mansfield, Mass. Tap-wrench. No. 977,691; Dec. 6; Sp. p. 616; Gaz. vol. 161; p. 94.
Williams, Charles H., Jr. (See Porter and Williams.)
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-lever strut. No. 951,165; Mar. 8; Sp. p. 1419; Gaz. vol. 152; p. 258.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-lever strut. No. 951,166; Mar. 8; Sp. p. 1421; Gaz. vol. 152; p. 258.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Reinforced brake-head for solid beams. No. 951,865; Mar. 15; Sp. p. 2859; Gaz. vol. 152; p. 520.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 951,866; Mar. 15; Sp. p. 2860; Gaz. vol. 152; p. 520.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake head and shoe. No. 952,553; Mar. 22; Sp. p. 4243; Gaz. vol. 152; p. 778.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-lever fulcrum. No. 953,163; Mar. 29; Sp. p. 5559; Gaz. vol. 152; p. 1014.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 953,772; Apr. 5; Sp. p. 179; Gaz. vol. 153; p. 33.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 955,239; Apr. 19; Sp. p. 3334; Gaz. vol. 153; p. 595.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 955,240; Apr. 19; Sp. p. 3336; Gaz. vol. 153; p. 595.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-lever strut or post. No. 956,249; Apr. 26; Sp. p. 5565; Gaz. vol. 153; p. 970.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 956,616; May 3; Sp. p. 234; Gaz. vol. 154; p. 40.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 957,399; May 10; Sp. p. 1946; Gaz. vol. 154; p. 337.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 957,400; May 10; Sp. p. 1948; Gaz. vol. 154; p. 337.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 961,920; June 21; Sp. p. 3490; Gaz. vol. 155; p. 618.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 961,921; June 21; Sp. p. 3492; Gaz. vol. 155; p. 618.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 979,623; Dec. 27; Sp. p. 4767; Gaz. vol. 161; p. 837.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 979,624; Dec. 27; Sp. p. 4769; Gaz. vol. 161; p. 837.
Williams, Charles I., Utica, N. Y. Asphalt-paving plant. No. 978,973; Dec. 20; Sp. p. 3359; Gaz. vol. 161; p. 590.
Williams, Clarence A., Chicago, Ill. Truck. No. 965,493; July 26; Sp. p. 5375; Gaz. vol. 156; p. 920.
Williams, Cyrus W., Turney, Mo. Plow-fender adjuster. No. 974,325; Nov. 1; Sp. p. 571; Gaz. vol. 160; p. 83.
Williams, David, Greensboro, N. C. Pipe support and clamp. No. 958,052; May 17; Sp. p. 3466; Gaz. vol. 154; p. 593.
Williams, David, Cardiff, England. Suspension-hook. No. 968,621; Aug. 30; Sp. p. 5926; Gaz. vol. 157; p. 1044.
Williams, David C., Arlington, Mass., assignor, by mesne assignments, to Woodenware Specialty Mfg. Co. Wall-rack. No. 976,110; Nov. 15; Sp. p. 4421; Gaz. vol. 160; p. 749.
Williams, David W. (See Pollard, Charles R., assignor.)
Williams, Dennis F., Fruitvale, Tenn. Land-roller. No. 976,764; Nov. 22; Sp. p. 5899; Gaz. vol. 160; p. 996.
Williams, Earl, Greencastle, Ind. Pipe-hanger. No. 950,978; Mar. 1; Sp. p. 1077; Gaz. vol. 152; p. 173.
Williams, Edward, *et al.* (See Anthony, David S., assignor.)
Williams, Edward C., Chicago, Ill. Roughing-machine. No. 945,833; Jan. 11; Sp. p. 1850; Gaz. vol. 150; p. 309.
Williams, Edward R. (See Williams, Joseph, W. H., and E. R.)
Williams, Edwin R., assignor to The Streator Metal Stamping Co., Streator, Ill. Electroplating-tank. No. 968,622; Aug. 30; Sp. p. 5927; Gaz. vol. 157; p. 1044.
Williams, Elzy R., St. Joseph, Mo. Trigger mechanism. No. 959,413; May 24; Sp. p. 6450; Gaz. vol. 154; p. 1080.
Williams, Emery, *et al.* (See Turner, Charles F., assignor.)
Williams, Ephraim. (See Kellogg, James C., Jr., assignor.)
Williams, Eugene, assignor to The Rubber Paint Co., Chicago, Ill. Paper-coating machine. No. 953,728; Apr. 5; Sp. p. 91; Gaz. vol. 153; p. 18.
Williams, Fitzallan B., Chicago, Ill. Seal-lock for boxes. No. 949,342; Feb. 15; Sp. p. 3283; Gaz. vol. 151; p. 576.
Williams, Fitzallan B., Chicago, Ill. Seal-lock for boxes. No. 949,343; Feb. 15; Sp. p. 3284; Gaz. vol. 151; p. 576.
Williams, Fitzallan B., Chicago, Ill. Seal-lock for beer-cases. No. 968,222; Aug. 23; Sp. p. 5095; Gaz. vol. 157; p. 878.
Williams-Foote, Ambrose C. G., Sulphur Springs, Colo. Making pictures. No. 968,301; Aug. 23; Sp. p. 5262; Gaz. vol. 157; p. 906.
Williams, Forrest B., Columbus, N. C. Thill-support. No. 970,285; Sept. 13; Sp. p. 2448; Gaz. vol. 158; p. 412.
Williams Foundry and Machine Company, The. (See Williams, John K., assignor.)
Williams, Francis M., Brownsville, Pa. Spike-puller. No. 978,684; Dec. 13; Sp. p. 2744; Gaz. vol. 161; p. 467.
Williams, Frank A., *et al.* (See Strait, Andrew V., assignor.)
Williams, Frank U., Carthage, Mo. Attachment for lenses. No. 953,879; Apr. 5; Sp. p. 389; Gaz. vol. 153; p. 71.
Williams, Frank W., Chicago, Ill. Picture-frame. No. 975,094; Nov. 8; Sp. p. 2292; Gaz. vol. 160; p. 375.
Williams, Fred C. (See Lacy and Williams.)
Williams, Frederick C., San Francisco, Cal. Marking and vending machine. No. 947,364; Jan. 25; Sp. p. 5249; Gaz. vol. 150; p. 884.
Williams, Frederick W., Macon, Ga. Baling-press. No. 958,900; May 24; Sp. p. 5437; Gaz. vol. 154; p. 910.
Williams, George A., Banner, Ark. Rail-joint. No. 969,679; Sept. 6; Sp. p. 1121; Gaz. vol. 158; p. 180.
Williams, George H., Los Angeles, Cal. Spring-wheel. No. 961,278; June 14; Sp. p. 2116; Gaz. vol. 155; p. 378.
Williams, George H., Chicago, Ill. Ore-jig. No. 976,419; Nov. 22; Sp. p. 5176; Gaz. vol. 160; p. 879.
Williams, George L., Americus, Ga. Lace-winder. No. 946,628; Jan. 18; Sp. p. 3619; Gaz. vol. 150; p. 608.
Williams, George M., and G. C. Greeno, Columbus, Ohio. Caster-wheel. No. 951,553; Mar. 8; Sp. p. 2220; Gaz. vol. 152; p. 385.

Alphabetical list of patentees—Continued.

Williams, George S., assignor to American Piano Player Company, Norfolk, Va. Valve for pneumatic musical instruments. No. 949,250; Feb. 15; Sp. p. 3072; Gaz. vol. 151; p. 544.

Williams, George S., assignor to American Piano Player Company, Norfolk, Va. Controller mechanism for automatic music-playing mechanisms. No. 956,010; Apr. 26; Sp. p. 5022; Gaz. vol. 153; p. 888.

Williams, George S., assignor to American Piano Player Company, Norfolk, Va. Vacuum-pump. No. 960,609; June 7; Sp. p. 749; Gaz. vol. 155; p. 124.

Williams, George S., assignor to American Piano Player Company, Norfolk, Va. Power-pneumatic. No. 960,610; June 7; Sp. p. 754; Gaz. vol. 155; p. 125.

Williams, George T., and T. L. Harris, Banks, Ala. Headlight-support. No. 956,011; Apr. 26; Sp. p. 5028; Gaz. vol. 153; p. 888.

Williams, Guy V. (See Farkas, Karl, assignor.)

Williams, Hal S. (See Laverty and Williams.)

Williams, Harry A. (See Alpenfels and Williams.)

Williams, Harry D., Pittsburg, Pa. Nursing-bottle. No. 950,710; Mar. 1; Sp. p. 545; Gaz. vol. 152; p. 85.

Williams, Harry J., Meriden, Conn., assignor to United States Envelope Company, Springfield, Mass. Toilet-paper fixture. No. 970,150; Sept. 13; Sp. p. 2148; Gaz. vol. 158; p. 366.

Williams, Harry J., Meriden, Conn., assignor to United States Envelope Company, Springfield, Mass. Toilet-paper fixture. No. 970,151; Sept. 13; Sp. p. 2149; Gaz. vol. 158; p. 366.

Williams, Harry W., assignor of one-half to J. Webster, Danville, Ill. Stop-motion for looms. No. 955,030; Apr. 12; Sp. p. 2909; Gaz. vol. 153; p. 492.

Williams, Henry M., assignor to The Williams Automatic Funnel Company, Vincennes, Ind. Automatic closing-valve for funnels. No. 947,170; Jan. 18; Sp. p. 4765; Gaz. vol. 150; p. 786.

Williams, Homer L., and O. Forbes, Colleton, S. C. Pulley-block. No. 967,697; Aug. 16; Sp. p. 3945; Gaz. vol. 157; p. 677.

Williams, Irvin E., Valley View, Pa. Valve-operating hose-reel. No. 966,504; Aug. 9; Sp. p. 1416; Gaz. vol. 157; p. 248.

Williams, James A., Cincinnati, Ohio. Molding-machine. No. 976,530; Nov. 22; Sp. p. 5423; Gaz. vol. 160; p. 916.

Williams, James B., Minden, La. Automatic weighing and bagging machine. No. 946,184; Jan. 11; Sp. p. 2587; Gaz. vol. 150; p. 429.

Williams, James R., Wilmington, and W. C. Briggs, Winston Salem, assignors to The National Stamp Vending Machine Company, Wilmington, N. C. Envelop-loading machine. No. 964,077; July 12; Sp. p. 2311; Gaz. vol. 156; p. 380.

Williams, James R., New York, N. Y., and W. C. Briggs, Winston Salem, assignors to The National Vending Machine Company, Wilmington, N. C. Cutting mechanism for envelop-loading machines, &c. No. 971,713; Oct. 4; Sp. p. 421; Gaz. vol. 159; p. 73.

Williams, John, Colt, Ark. Crusher-mill. No. 973,327; Oct. 18; Sp. p. 4003; Gaz. vol. 159; p. 685.

Williams, John B., Houston, Tex. Metal-frame screen. No. 961,053; June 7; Sp. p. 1635; Gaz. vol. 155; p. 274.

Williams, John C., and E. J. Cotter, Augusta, Ga. Loom. No. 963,100; July 5; Sp. p. 170; Gaz. vol. 156; p. 26.

Williams, John E., Ceres, Cal. Cosmoscope. No. 957,529; May 10; Sp. p. 2205; Gaz. vol. 154; p. 381.

Williams, John H., and A. Tortorice, Lutcher, La. Rail-joint. No. 951,713; Mar. 8; Sp. p. 2515; Gaz. vol. 152; p. 437.

Williams, John K., Akron, Ohio, assignor of one-half to The Williams Foundry and Machine Company. Core for manufacturing pneumatic tires. No. 948,489; Feb. 8; Sp. p. 1498; Gaz. vol. 151; p. 265.

Williams, John K., Akron, Ohio, assignor of one-half to The Williams Foundry and Machine Company. Quick-opening door for vulcanizers. No. 976,969; Nov. 29; Sp. p. 6400; Gaz. vol. 160; p. 1093.

Williams, John L., Ellzey, Fla. Vehicle traction mechanism. No. 960,059; May 31; Sp. p. 7903; Gaz. vol. 154; p. 1327.

Williams, John M. (See Duncan, Arthur T., assignor.)

Williams, John M., Guthrie, Okla. Bleaching and aging cereals. No. 963,970; July 12; Sp. p. 2092; Gaz. vol. 156; p. 342.

Williams, John P., New York, N. Y., assignor to Electric Bank Protection Company. Electrically-protected plate and lining for vaults, safes, &c. No. 961,826; June 21; Sp. p. 3287; Gaz. vol. 155; p. 586.

Williams, John P., New York, N. Y., assignor to Electric Bank Protection Company. Electric cable for burglar-alarm systems. No. 961,827; June 21; Sp. p. 3291; Gaz. vol. 155; p. 587.

Williams, John P., and H. Huhn, New York, N. Y., assignors to Electric Bank Protection Company. Time-controller for electric time-locks or burglar-alarm systems. No. 961,922; June 21; Sp. p. 3494; Gaz. vol. 155; p. 618.

Williams, John T., Reno, Nev. Swinging chair. No. 979,236; Dec. 20; Sp. p. 3957; Gaz. vol. 161; p. 683.

Williams, John W., San Angelo, Tex. Gripper for printing-presses. No. 947,365; Jan. 25; Sp. p. 5254; Gaz. vol. 150; p. 885.

Williams, John W., Pittsburg, Pa. Receptacle-holder. No. 964,354; July 12; Sp. p. 2866; Gaz. vol. 156; p. 473.

Williams, Joseph, W. H., and E. R., Sharpsburg, Pa. Disinfector or deodorizer. No. 963,492; July 5; Sp. p. 1055; Gaz. vol. 156; p. 161.

Williams, Joseph, W. H., and E. R., Sharpsburg, Pa. Disinfector and deodorizer. No. 977,353; Nov. 29; Sp. p. 7205; Gaz. vol. 160; p. 1226.

Williams, Joseph G., Buffalo, N. Y. Carbureter. No. 973,602; Oct. 25; Sp. p. 4584; Gaz. vol. 159; p. 800.

Williams, Joseph H., Harper, Kans., assignor, by mesne assignments, to G. H. Underhill, Boston, Mass. Feed apparatus for phonographs. No. 963,195; July 5; Sp. p. 425; Gaz. vol. 156; p. 60.

Williams, Josiah, assignor of one-third to W. G. Johnson and one-third to R. Schwartz, Kingfisher, Okla. Fence-coupling. No. 946,629; Jan. 18; Sp. p. 3623; Gaz. vol. 150; p. 608.

Williams, Lacey Y., Toledo, Ohio. Dust-guard. No. 956,012; Apr. 26; Sp. p. 5030; Gaz. vol. 153; p. 889.

Williams, Lacey Y., Toledo, Ohio. Dust-guard. No. 973,462; Oct. 18; Sp. p. 4287; Gaz. vol. 159; p. 730.

Williams, Lacey Y., Toledo, Ohio. Dust-guard. No. 973,463; Oct. 18; Sp. p. 4288; Gaz. vol. 159; p. 730.

Williams, Louis N. D. (See Scott, Robert W., assignor.)

Williams, Lynn A., *et al.* (See Birsfield, Jules A., assignor.)

Williams, Lynn A., Evanston, Ill. Electrical relay. No. 972,424; Oct. 11; Sp. p. 1966; Gaz. vol. 159; p. 345.

Williams, Lynn A., Evanston, Ill., assignor to D. H. Murphy, New Castle, Pa. Means for electroplating pipe, &c. No. 951,265; Mar. 8; Sp. p. 1615; Gaz. vol. 152; p. 289.

Williams, Lynn A., Evanston, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Switching-key. No. 958,453; May 17; Sp. p. 4475; Gaz. vol. 154; p. 732.

Williams, Mabel E., Fresno, Cal. Supporting-belt. No. 971,946; Oct. 4; Sp. p. 965; Gaz. vol. 159; p. 162.

Williams & Marcus Company. (See Marcus, Felix, assignor.)

Williams, Margaret B., Chicago, Ill. Chair. No. 975,188; Nov. 8; Sp. p. 2528; Gaz. vol. 160; p. 409.

Williams, Mark D. (See Brown, Ernest, assignor.)

Williams, Martin L., South Bend, Ind. Armored vehicle-tire. No. 951,087; Mar. 1; Sp. p. 1264; Gaz. vol. 152; p. 207.

Williams, Martin L., South Bend, Ind. Vehicle-rim. No. 969,929; Sept. 13; Sp. p. 1694; Gaz. vol. 158; p. 292.

Williams, Martin L., South Bend, Ind. Detachable vehicle-rim. No. 969,930; Sept. 13; Sp. p. 1695; Gaz. vol. 158; p. 292.

Williams, Martin L., South Bend, Ind. Internal-combustion engine. No. 972,966; Oct. 18; Sp. p. 3217; Gaz. vol. 159; p. 560.

Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Cage for shredding-machines. No. 953,111; Mar. 29; Sp. p. 5453; Gaz. vol. 152; p. 996.

Williams, Nathaniel, Owosso, Mich. Gate. No. 964,137; July 12; Sp. p. 2440; Gaz. vol. 156; p. 401.

Williams, Ora W., and W. H. Gardner, Minneapolis, Minn. Rotary explosive-engine. No. 947,008; Jan. 18; Sp. p. 4478; Gaz. vol. 150; p. 736.

Williams, Owen J., Buffalo, N. Y. Disappearing hook. No. 961,566; June 14; Sp. p. 2748; Gaz. vol. 155; p. 476.

Williams Patent Crusher & Pulverizer Company. (See Williams, Milton F., assignor.)

Williams, Patrick H. (See Moffitt and Williams.)

Williams, Paul F., Chicago, Ill. Wire-connector. No. 976,111; Nov. 15; Sp. p. 4423; Gaz. vol. 160; p. 750.

Williams, Robert P., San Francisco, Cal. Electric railway. No. 977,354; Nov. 29; Sp. p. 7208; Gaz. vol. 160; p. 1226.

Williams, Roger, Brooklyn, N. Y. Non-refillable bottle. No. 953,880; Apr. 5; Sp. p. 391; Gaz. vol. 153; p. 71.

Williams, Roger F., assignor of two-thirds to M. L. Failing and A. J. Gray, Buffalo, N. Y. Lens-grinding machine. No. 970,674; Sept. 20; Sp. p. 3284; Gaz. vol. 158; p. 565.

Williams, Samuel F., San Diego, Cal. Bath-tub. No. 945,299; Jan. 4; Sp. p. 641; Gaz. vol. 150; p. 99.

Williams, Samuel F., San Diego, Cal. Rod-coupling. No. 964,596; July 19; Sp. p. 3430; Gaz. vol. 156; p. 586.

Williams, Samuel R., Oberlin, Ohio. Air-pump. No. 977,916; Dec. 6; Sp. p. 1075; Gaz. vol. 161; p. 171.

Williams, Stanley K., Antrim, Pa. Handle. No. 966,974; Aug. 9; Sp. p. 2460; Gaz. vol. 157; p. 405.

Williams, Stephen T. (See Wegner, William F., assignor.)

Williams, Thomas B. (See Smith and Williams.)

Williams, Thomas B., assignor to The Leavitt Machine Co., Orange, Mass. Valve-reseating tool. No. 956,918; May 3; Sp. p. 911; Gaz. vol. 154; p. 144.

Williams, Thomas J., Washington, D. C. Metal-molding crimper. No. 973,093; Oct. 18; Sp. p. 3487; Gaz. vol. 159; p. 602.

Williams, Thomas O., Dixon, Ill. Pulverizer. No. 946,416; Jan. 11; Sp. p. 3180; Gaz. vol. 150; p. 511.

Williams Typewriter Company, The. (See Secor, Jerome B., assignor.)
Williams, Walter S., assignor of twenty-eight one-hundredths to C. R. Wescott, twenty-eight one-hundredths to C. W. Pifer, and fifteen one-hundredths to W. H. H. Hastings, Clinton, Ill. Car-door. No. 950,788; Mar. 1; Sp. p. 707; Gaz. vol. 152; p. 113.
Williams, White & Company. (See Freeland, George W., assignor.)
Williams, William A., Barton, Ohio. Rail-fastening. No. 964,726; July 19; Sp. p. 3800; Gaz. vol. 156; p. 631.
Williams, William A., Olivet, S. D. Wind-motor. No. 969,587; Sept. 6; Sp. p. 945; Gaz. vol. 158; p. 149.
Williams, William A., assignor of one-half to J. V. Carroll, New Rochelle, N. Y. Gutter-hanger. No. 966,632; Aug. 9; Sp. p. 1706; Gaz. vol. 157; p. 292.
Williams, William E. (See Hawley, De Witt, assignor.)
Williams, William E., Chicago, Ill. Machine for making shredded-wheat biscuits. No. 949,013; Feb. 15; Sp. p. 2600; Gaz. vol. 151; p. 466.
Williams, William H. (See Williams, Joseph, W. H., and E. R.)
Williams, William J., St. Joseph, Mo. Pasting and trimming machine. No. 975,666; Nov. 15; Sp. p. 3556; Gaz. vol. 160; p. 598.
Williams, William J., Birmingham, Ala. Temporary fence. No. 976,714; Nov. 22; Sp. p. 5781; Gaz. vol. 160; p. 978.
Williams, William R., Punxsutawney, Pa. Vending-machine. No. 979,625; Dec. 27; Sp. p. 4769; Gaz. vol. 161; p. 838.
Williams, William W., Indianapolis, Ind. Canopy for folding go-carts. No. 974,942; Nov. 8; Sp. p. 1962; Gaz vol. 160; p. 323.
Williams, Willis D., Chicago, Ill. Rail-tie. No. 960,130; May 31; Sp. p. 8032; Gaz. vol. 154; p. 1349.
Williamson Bros. Co. (See Williamson, John D., Jr., assignor.)
Williamson, Daniel E., Dyersburg, Tenn. Fence. No. 968,908; Aug. 30; Sp. p. 6555; Gaz. vol. 157; p. 1141.
Williamson, David, New York, N. Y. Concealed hinge. No. 949,949; Feb. 22; Sp. p. 4568; Gaz. vol. 151; p. 816.
Williamson, Eli S., Buffalo, N. Y. Vehicle-wheel. No. 948,621; Feb. 8; Sp. p. 1788; Gaz. vol. 151; p. 307.
Williamson, Frank E., Glasco, Kans. Stock-watering device. No. 950,420; Feb. 22; Sp. p. 5567; Gaz. vol. 151; p. 976.
Williamson, Frederick F., and D. Brennan, Jr., assignors to The Sicilian Asphalt Paving Company, New York, N. Y. Road-roller. No. 958,346; May 17; Sp. p. 4258; Gaz. vol. 154; p. 695.
Williamson, George, Rochdale, England. Apparatus for centering shafts and the like. No. 979,909; Dec. 27; Sp. p. 5400; Gaz. vol. 161; p. 933.
Williamson, Glenn S., New York, N. Y. Electric switch. No. 969,824; Sept. 13; Sp. p. 1477; Gaz. vol. 158; p. 255.
Williamson, Glenn S., New York, assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Matrix-forming machine. No. 948,677; Feb. 8; Sp. p. 1904; Gaz. vol. 151; p. 327.
Williamson, Harry A., St. Louis, Mo. Animated minnow. No. 966,068; Aug. 2; Sp. p. 487; Gaz. vol. 157; p. 78.
Williamson, James E., Pittsburg, Pa. Electric heater for oil-wells. No. 972,308; Oct. 11; Sp. p. 1734; Gaz. vol. 159; p. 304.
Williamson, James F. (See Ekelund, John A., assignor.)
Williamson, John. (See Levey, John, assignor.)
Williamson, John B., and A. V. Oldham, Louisville, Ky. Container-top. No. 950,064; Feb. 22; Sp. p. 4864; Gaz. vol. 151; p. 856.
Williamson, John D., Jr., assignor to Williamson Bros. Co., Philadelphia, Pa. Safety friction-clutch. No. 971,335; Sept. 27; Sp. p. 4652; Gaz. vol. 158; p. 814.
Williamson, John W., Clearwater, Fla. Combined railway-tie and rail-fastener. No. 966,284; Aug. 2; Sp. p. 939; Gaz. vol. 157; p. 149.
Williamson, Lucius S., Lockland, Ohio. Pulp-screen. No. 946,185; Jan. 11; Sp. p. 2591; Gaz. vol. 150; p. 430.
Williamson, Newton H., Greenfield, Tenn. Railway-rail joint. No. 946,950; Jan. 18; Sp. p. 4354; Gaz. vol. 150; p. 716.
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Brush-holder. No. 967,474; Aug. 16; Sp. p. 3505; Gaz. vol. 157; p. 603.
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 971,868; Oct. 4; Sp. p. 763; Gaz. vol. 159; p. 132.
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 971,869; Oct. 4; Sp. p. 765; Gaz. vol. 159; p. 132.
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 976,420; Nov. 22; Sp. p. 5178; Gaz. vol. 160; p. 880.
Williamson, Robert B., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Induction-motor. No. 953,809; Apr. 5; Sp. p. 257; Gaz. vol. 153; p. 46.
Williamson, Russell B., Clifton Springs, N. Y. Sprayer. No. 951,895; Mar. 15; Sp. p. 2929; Gaz. vol. 152; p. 530.
Williamson, Sara P., Chicago, Ill. Spool-holder. No. 966,877; Aug. 9; Sp. p. 2271; Gaz. vol. 157; p. 372.
Willings, Joseph B., Maricopa, Cal. Automatic feed regulating and mixing device for crude-oil burners. No. 966,373; Aug. 2; Sp. p. 1095; Gaz. vol. 157; p. 176.
Williome, Jacques D., St. Louis, Mo. Water-motor for washing-machines. No. 968,016; Aug. 23; Sp. p. 4628; Gaz. vol. 157; p. 808.
Willis Electric Meter Company. (See Scrafford, Daniel E., assignor.)
Willis, George M., Chicago, Ill. Alarm and signaling system. No. 947,208; Jan. 18; Sp. p. 4849; Gaz. vol. 150; p. 800.
Willis, George M., Chicago, Ill. Watchman's signaling and fire-alarm system. No. 955,929; Apr. 26; Sp. p. 4855; Gaz. vol. 153; p. 859.
Willis, George M., Chicago, Ill. Signaling apparatus. No. 963,843; July 12; Sp. p. 1833; Gaz. vol. 156; p. 302.
Willis, George W. (See Beckett and Willis.)
Willis, Harry, Denver, Colo. Tobacco-pipe. No. 957,922; May 17; Sp. p. 3036; Gaz. vol. 154; p. 545.
Willis, Harry S. (See Bjork and Willis.)
Willis, John W., *et al.* (See Paar, Henry, assignor.)
Willis, Percy, Southport, and J. Jolly, Bolton, England. Combing-machine for cotton fibers. No. 947,070; Jan. 18; Sp. p. 4582; Gaz. vol. 150; p. 756.
Willis, Samuel B., New York, N. Y. Guide-rack for fire-hose. No. 961,054; June 7; Sp. p. 1635; Gaz. vol. 155; p. 274.
Willis, Walter R., Jr., Scranton, Pa. Drawing-rack. No. 956,013; Apr. 26; Sp. p. 5031; Gaz. vol. 153; p. 889.
Willis, William J., Ocker Hill, Stafford, England. Calcining-kiln. No. 969,931; Sept. 13; Sp. p. 1697; Gaz. vol. 158; p. 292.
Williston, M Brock, Detroit, Mich., assignor to The Adams & Westlake Company. Signal-lamp bracket. No. 970,770; Sept. 20; Sp. p. 3502; Gaz. vol. 158; p. 599.
Willits, Frederick E., assignor of one-fourth to W. M. Roop, Kansas City, Mo. Wire-fabric machine. No. 975,492; Nov. 15; Sp. p. 3147; Gaz. vol. 160; p. 537.
Willits, George D., Adrian, Mich. Composite lamp-chimney. No. 969,932; Sept. 13; Sp. p. 1699; Gaz. vol. 158; p. 292.
Willman, William M., Mahanoy City, Pa. Hair-curler. No. 952,396; Mar. 15; Sp. p. 3890; Gaz. vol. 152; p. 696.
Willmann, Joseph, Derby, Conn. Ice-cream-making machine. No. 963,675; July 5; Sp. p. 1414; Gaz. vol. 156; p. 222.
Willmann, Joseph, Derby, Conn. Emulsifier. No. 973,328; Oct. 18; Sp. p. 4004; Gaz. vol. 159; p. 685.
Willmann, Joseph, Derby, Conn. Bottle-filler. No. 969,017; Aug. 30; Sp. p. 6759; Gaz. vol. 157; p. 1178.
Willmann, Joseph, Derby, Conn. Apparatus for manufacturing artificially-soured milk. No. 969,018; Aug. 30; Sp. p. 6765; Gaz. vol. 157; p. 1178.
Willmann, Joseph, Shelton, Conn. Ice-cream freezer. No. 969,016; Aug. 30; Sp. p. 6757; Gaz. vol. 157; p. 1177.
Willmarth, Charles A., Detroit, assignor, by mesne assignments, to Simplex Fence Machine Company, Battle Creek, Mich. Machine for weaving wire fences. No. 965,268; July 26; Sp. p. 4883; Gaz. vol. 156; p. 843.
Willmott, Francis J., Evesham, England, assignor to American Optical Company, Southbridge, Mass. Case for spectacles, eyeglasses, and other articles. No. 973,835; Oct. 25; Sp. p. 5079; Gaz. vol. 159; p. 882.
Willner, Sigmund, Chicago, Ill. Apparatus for impregnating logs. No. 970,409; Sept. 13; Sp. p. 2677; Gaz. vol. 158; p. 453.
Willner, Sigmund, Chicago, Ill. Apparatus for impregnating timber. No. 976,715; Nov. 22; Sp. p. 5782; Gaz. vol. 160; p. 979.
Willnus, Michael. (See Müller, Willnus, and Weishaar.)
Willock, Curtis M., *et al.*, executors. (See Kruse, Alfred T.)
Willoughby, Charles L., and J. Jacobson, New York, N. Y. Device for exhibiting pictures. No. 954,555; Apr. 12; Sp. p. 1834; Gaz. vol. 153; p. 328.
Willoughby, David, Minneapolis, Minn. Car-indicator. No. 948,911; Feb. 8; Sp. p. 2380; Gaz. vol. 151; p. 405.
Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Jack. No. 968,223; Aug. 23; Sp. p. 5097; Gaz. vol. 157; p. 878.
Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Jack. No. 976,239; Nov. 22; Sp. p. 4768; Gaz. vol. 160; p. 817.
Wills, Edgar B., Mendota, Ill. Tank-heater. No. 966,147; Aug. 2; Sp. p. 627; Gaz. vol. 157; p. 103.
Wills, Harold A., Plainfield, N. J. Cross-tie or sleeper of reinforced concrete or other plastic material. No. 978,343; Dec. 13; Sp. p. 2007; Gaz. vol. 161; p. 349.
Wills, William S., Covington, Va. Vehicle-truck or running-gear. No. 946,479; Jan. 11; Sp. p. 3313; Gaz. vol. 150; p. 533.
Willson, Arthur S., Barton, Vt. Sash-holder. No. 945,431; Jan. 4; Sp. p. 921; Gaz. vol. 150; p. 144.
Willson Carbide Works Company of St. Catharines, The. (See Creelman, Frank, assignor.)
Willson, Freeman R., Jr., Worthington, assignor to Jeffrey Manufacturing Company, Columbus, Ohio. Rotary drier. No. 951,977; Mar. 15; Sp. p. 3086; Gaz. vol. 152; p. 557.

Alphabetical list of patentees—Continued.

Willson, Freeman R., Jr., Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Mechanism for treating tobacco and other materials. No. 951,978; Mar. 15; Sp. p. 3088; Gaz. vol. 152; p. 557.

Willson, Freeman R., Jr., Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Drier. No. 953,653; Mar. 29; Sp. p. 6612; Gaz. vol. 152; p. 1180.

Willson, Freeman R., Jr., Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Sprocket-wheel. No. 960,756; June 7; Sp. p. 1042; Gaz. vol. 155; p. 176.

Willson, Freeman R., Jr., Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Conveyer. No. 977,987; Dec. 6; Sp. p. 1218; Gaz. vol. 161; p. 196.

Willson, Freeman R., Jr., Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Conveyer. No. 977,988; Dec. 6; Sp. p. 1219; Gaz. vol. 161; p. 196.

Willson, Henry, Chicago, Ill. Changeable sign-board. No. 958,054; May 17; Sp. p. 3469; Gaz. vol. 154; p. 593.

Willson, Samuel T., Denver, Colo. Soldering-iron furnace. No. 954,235; Apr. 5; Sp. p. 1154; Gaz. vol. 153; p. 192.

Willson, Samuel T., Denver, Colo. Cooking appliance. No. 970,286; Sept. 13; Sp. p. 2449; Gaz. vol. 158; p. 413.

Willson, Thomas L., and M. M. Haff, Ottawa, Ontario, Canada; said Haff assignor to said Willson. Metallurgical process. No. 963,345; July 5; Sp. p. 765; Gaz. vol. 156; p. 112.

Willson, William W., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Sprocket-wheel. No. 948,385; Feb. 8; Sp. p. 1280; Gaz. vol. 151; p. 230.

Willson, William W., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Screening mechanism. No. 959,671; May 31; Sp. p. 7021; Gaz. vol. 154; p. 1192.

Willy, John, Chicago, Ill. Loose-leaf holder. No. 961,923; June 21; Sp. p. 3501; Gaz. vol. 155; p. 619.

Wilmarth Show Case Company. (See Chandler and Oosdyke, assignors.)

Wilmer, Charles L. (See Wilmer, William T., assignor.)

Wilmer, William T., assignor of one-half to C. L. Wilmer, Montgomery, W. Va. Spike-puller. No. 955,570; Apr. 19; Sp. p. 4027; Gaz. vol. 153; p. 706.

Wilmes, John, Maquoketa, Iowa. Tire-protector. No. 958,053; May 17; Sp. p. 3468; Gaz. vol. 154; p. 593.

Wilmsen, Bernhard. (See Schmidmer, Edward, assignor.)

Wilshire, Arthur, Manilla, New South Wales, Australia. Adjustable seat for sulkies. No. 969,825; Sept. 13; Sp. p. 1479; Gaz. vol. 158; p. 255.

Wilson, Adoniram J., Westfield, N. J. Vehicle-tire. No. 975,816; Nov. 15; Sp. p. 3840; Gaz. vol. 160; p. 647.

Wilson, Albert D. (See Wilson, Frederic D. and A. D.)

Wilson, Albert E. (See Mayer and Keegan, assignors.)

Wilson, Alfonzo F., Worthington, Ind. Lifting-jack. No. 966,374; Aug. 2; Sp. p. 1097; Gaz. vol. 157; p. 177.

Wilson, Allen P. (See Wilson, Robert A. and A. P.)

Wilson, Alonzo T., assignor of one-half to W. H. Nicholas, Des Moines, Iowa. Electric valve-controller. No. 960,757; June 7; Sp. p. 1044; Gaz. vol. 155; p. 176.

Wilson, Andrew A., Ashland, Ky. Miter-box. No. 965,785; July 26; Sp. p. 6025; Gaz. vol. 156; p. 1023.

Wilson, Asbury G., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrically-operated bell. No. 956,250; Apr. 26; Sp. p. 5567; Gaz. vol. 153; p. 971.

Wilson, Benjamin F., Hastings, Nebr. Shock-loader for grain and hay. No. 980,038; Dec. 27; Sp. p. 5665; Gaz. vol. 161; p. 976.

Wilson, Charles A. (See Sprague and Wilson.)

Wilson, Charles B., Bartow, Fla. Detachable spindle. No. 978,096; Dec. 6; Sp. p. 1449; Gaz. vol. 161; p. 234.

Wilson, Charles C., Quincy, Ill. Oil-burner. No. 968,825; Aug. 30; Sp. p. 6377; Gaz. vol. 157; p. 1112.

Wilson, Charles E. (See Walker and Wilson.)

Wilson, Charles F., Ottawa, Ill. Construction of sewers and similar structures. No. 961,380; June 14; Sp. p. 2343; Gaz. vol. 155; p. 414.

Wilson, Charles H., Paducah, Ky. Boiler-furnace. No. 949,048; Feb. 15; Sp. p. 2681; Gaz. vol. 151; p. 477.

Wilson, Charles L., Remington, Ind. Indicator for stitch-regulating devices. No. 952,162; Mar. 15; Sp. p. 3432; Gaz. vol. 152; p. 617.

Wilson, Charles R. (See Sylvester, Wilber A., assignor.)

Wilson, Charles W., Edgewood, Ill. Magneto-generator. No. 963,412; July 5; Sp. p. 904; Gaz. vol. 156; p. 133.

Wilson, Charles W., Chicago, Ill. Portable force-drill. No. 974,454; Nov. 1; Sp. p. 874; Gaz. vol. 160; p. 128.

Wilson, Charley J., Roger, N. D. Funnel. No. 971,233; Sept. 27; Sp. p. 4466; Gaz. vol. 158; p. 782.

Wilson, Christian, Brookline, Mass. Shock-absorber. No. 967,285; Aug. 16; Sp. p. 3105; Gaz. vol. 157; p. 538.

Wilson, Clarence F., and J. Oldenburg, Johnstown, Colo. Hose-coupling. No. 948,437; Feb. 8; Sp. p. 1380; Gaz. vol. 151; p. 246.

Wilson, Clarence F., and J. H. Harman, Uniontown, Pa. Lock for umbrella-holders. No. 960,131; May 31; Sp. p. 8033; Gaz. vol. 154; p. 1349.

Wilson, David H., assignor to G. W. Kretzinger, Chicago, Ill. Telephone apparatus. No. 950,799; Mar. 1; Sp. p. 734; Gaz. vol. 152; p. 117.

Wilson, David H., assignor to R. Bines, Chicago, Ill. Telephone apparatus. No. 956,251; Apr. 26; Sp. p. 5568; Gaz. vol. 153; p. 971.

Wilson, David P. (See Broadwell, William C., assignor.)

Wilson, David W., Spokane, Wash. Carriage-bow-repairing device. No. 952,719; Mar. 22; Sp. p. 4617; Gaz. vol. 152; p. 836.

Wilson, Edward H., and S. J. Gallagher, Coalinga, Cal. Hose-coupling. No. 969,019; Aug. 30; Sp. p. 6767; Gaz. vol. 157; p. 1178.

Wilson, Ellen, administratrix. (See Wilson, Joseph F.)

Wilson, Elnathan, Philadelphia, Pa. Renewable shoe brush and polisher. No. 964,355; July 12; Sp. p. 2867; Gaz. vol. 156; p. 473.

Wilson, Emery J., Cambridge, Mass. Clutch mechanism. No. 949,559; Feb. 15; Sp. p. 3726; Gaz. vol. 151; p. 648.

Wilson, Frank B., *et al.* (See Stanley, John C. W., assignor.)

Wilson, Frank E. (See Heffner and Wilson.)

Wilson, Frank M., and E. C. Brock, Columbus, Ohio. Bed. No. 948,120; Feb. 1; Sp. p. 705; Gaz. vol. 151; p. 115.

Wilson, Frederic D. and A. D., Ottumwa, Iowa. Corn-harvester. No. 957,831; May 10; Sp. p. 2806; Gaz. vol. 154; p. 482.

Wilson, Frederick A., Brooklyn, N. Y., assignor to The Hart & Cooley Company, New Britain, Conn. Register. No. 964,597; July 19; Sp. p. 3432; Gaz. vol. 156; p. 586.

Wilson, George F., Pfafftown, N. C. Cutter-head. No. 977,989; Dec. 6; Sp. p. 1222; Gaz. vol. 161; p. 196.

Wilson, George W., Arcadia, La. Hay-press. No. 947,877; Feb. 1; Sp. p. 219; Gaz. vol. 151; p. 35.

Wilson, H. B., *et al.* (See Geddes, William, assignor.)

Wilson, Harry, and M. A. Lynch, Washington, D. C., assignors to Bethlehem Steel Company, South Bethlehem, Pa. Fuse for explosive projectiles. No. 972,425; Oct. 11; Sp. p. 1968; Gaz. vol. 159; p. 345.

Wilson, Harry H., Belleville, N. J. Dough-mixing apparatus. No. 946,300; Jan. 11; Sp. p. 2845; Gaz. vol. 150; p. 472.

Wilson, Henry E., assignor of one-fourth to R. W. McKinney, Chicago, Ill. Automobile engine-starter. No. 978,417; Dec. 13; Sp. p. 2164; Gaz. vol. 161; p. 376.

Wilson, Isaiah O., El Toro, Cal. Resilient tire. No. 964,727; July 19; Sp. p. 3801; Gaz. vol. 156; p. 632.

Wilson, James, Wandsworth, England. Cleansing filtering mediums and the like. No. 945,146; Jan. 4; Sp. p. 276; Gaz. vol. 150; p. 48.

Wilson, James A., Bertram, Tex. Check-controlled apparatus. No. 950,313; Feb. 22; Sp. p. 5368; Gaz. vol. 151; p. 942.

Wilson, James A., Mahomet, Tex. Weight-motor. No. 961,279; June 14; Sp. p. 2119; Gaz. vol. 155; p. 379.

Wilson, James D., Baltimore, Md. Making channel-ribbon. No. 972,967; Oct. 18; Sp. p. 3222; Gaz. vol. 159; p. 560.

Wilson, James D., Webster Groves, Mo. Fountain-cuspidor. No. 975,308; Nov. 8; Sp. p. 2781; Gaz. vol. 160; p. 449.

Wilson, James E. (See Heaton, Elias M., assignor.)

Wilson, James E., New York, N. Y., assignor to National Lock Washer Co., Newark, N. J. Making lock-nut washers. No. 949,871; Feb. 22; Sp. p. 4399; Gaz. vol. 151; p. 788.

Wilson, James E., New York, N. Y., assignor to The National Lock Washer Co., Newark, N. J. Making steel spring-washers. No. 978,974; Dec. 20; Sp. p. 3362; Gaz. vol. 161; p. 591.

Wilson, James G., Larchmont, N. Y. Fire-resistant shutter. No. 951,867; Mar. 15; Sp. p. 2862; Gaz. vol. 152; p. 521.

Wilson, James G., Larchmont, N. Y. Fire-resistant shutter. No. 951,868; Mar. 15; Sp. p. 2864; Gaz. vol. 152; p. 521.

Wilson, James G., Larchmont, N. Y. Baffle for fireproof shutters. No. 957,923; May 17; Sp. p. 3038; Gaz. vol. 154; p. 545.

Wilson, James G., Larchmont, N. Y. Fire-stop for corrugated-metal shutters. No. 968,623; Aug. 30; Sp. p. 5929; Gaz. vol. 157; p. 1044.

Wilson, James G. and L. G., Larchmont, N. Y. Flexible or rolling metallic shutter. No. 949,789; Feb. 22; Sp. p. 4202; Gaz. vol. 151; p. 759.

Wilson, James H., Bridgeport, Conn. Corset-stay. No. 952,088; Mar. 15; Sp. p. 3292; Gaz. vol. 152; p. 593.

Wilson, James R., assignor of one-half to Poole Bros., Chicago, Ill. Safety-paper. No. 953,081; Mar. 29; Sp. p. 5362; Gaz. vol. 152; p. 986.

Wilson, James S., Scranton, Pa. Grate-bar. No. 955,031; Apr. 12; Sp. p. 2910; Gaz. vol. 153; p. 493.

Wilson, John A., Jr., assignor to Noye Manufacturing Company, Buffalo, N. Y. Radiator. No. 978,975; Dec. 20; Sp. p. 3363; Gaz. vol. 161; p. 591.

Wilson, John C., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Costumer. No. 948,537; Feb. 8; Sp. p. 1589; Gaz. vol. 151; p. 280.

Wilson, John C., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Means for securing bedstead-spindles. No. 959,093; May 24; Sp. p. 5818; Gaz. vol. 154; p. 975.
Wilson, John C., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Bed pillar or post. No. 960,611; June 7; Sp. p. 756; Gaz. vol. 155; p. 125.
Wilson, John H., New Kensington, Pa. Handle for cooking utensils. No. 945,659; Jan. 4; Sp. p. 1400; Gaz. vol. 150; p. 218.
Wilson, John H., Smithfield, Pa. Cutter for harvesting-machines. No. 954,009; Apr. 5; Sp. p. 645; Gaz. vol. 153; p. 115.
Wilson, John H., Middlesex township, Cumberland county, Pa. Flying-machine. No. 976,765; Nov. 22; Sp. p. 5903; Gaz. vol. 160; p. 997.
Wilson, John S., *et al.* (See Lutes, Joseph P., assignor.)
Wilson, John T. (See Girt, Wilson, and Atkins.)
Wilson, John T., Jersey Shore, Pa. Piston-valve. No. 957,286; May 10; Sp. p. 1710; Gaz. vol. 154; p. 299.
Wilson, John W., Boston, Mass. Flying-machine. No. 970,771; Sept. 20; Sp. p. 3503; Gaz. vol. 158; p. 600.
Wilson, Joseph, Christchurch, New Zealand. Document file and holder. No. 959,282; May 24; Sp. p. 6203; Gaz. vol. 154; p. 1036.
Wilson, Joseph F., deceased, New York, N. Y.; E. Wilson, administratrix. Fire-alarm trap. No. 949,737; Feb. 15; Sp. p. 4071; Gaz. vol. 151; p. 707.
Wilson, Leonard P., Coventry, assignor to Samuel Courtauld & Company Limited, London, England. Manufacture of threads, filaments, strips, and films of cellulose. No. 970,589; Sept. 20; Sp. p. 3076; Gaz. vol. 158; p. 536.
Wilson, Lester G. (See Wilson, James G. and L. G.)
Wilson, Lester G., Larchmont, N. Y. Electrical trolley device. No. 945,660; Jan. 4; Sp. p. 1403; Gaz. vol. 150; p. 219.
Wilson, Lester G., Larchmont, N. Y., and F. McManus, South Norfolk, Va.; said McManus assignor to said Wilson. Fire-resisting shutter. No. 972,426; Oct. 11; Sp. p. 1971; Gaz. vol. 159; p. 346.
Wilson, Louis P., Cleveland, Ohio. Garment-hanger. No. 976,531; Nov. 22; Sp. p. 5427; Gaz. vol. 160; p. 917.
Wilson, Loyd, Detroit, Mich. Circuit-switch. No. 970,410; Sept. 13; Sp. p. 2681; Gaz. vol. 158; p. 453.
Wilson, Martin L. W., Boulder, Colo. Automatic music-turner. No. 954,236; Apr. 5; Sp. p. 1156; Gaz. vol. 153; p. 193.
Wilson, Matthew, Dysart, Iowa, assignor of one-half to C. F. Bostrom and one-half to J. W. Bostrom, Garrison, Iowa. Fence-stretcher. No. 951,979; Mar. 15; Sp. p. 3090; Gaz. vol. 152; p. 558.
Wilson, Michael H., assignor to Patented Specialties Company, Pittsburg, Pa. Display-folder. No. 956,252; Apr. 26; Sp. p. 5570; Gaz. vol. 153; p. 971.
Wilson, Ralph B. (See Dickerson, Leonard R., assignor.)
Wilson, Ralph E., Dallas, Tex., assignor to Continental Gin Company, Birmingham, Ala. Cotton-ginning machinery. No. 961,393; June 14; Sp. p. 2363; Gaz. vol. 155; p. 418.
Wilson, Richard, Jr., Camden, N. J. Condiment-holder. No. 946,085; Jan. 11; Sp. p. 2375; Gaz. vol. 150; p. 395.
Wilson, Richard F., Albany, N. Y. Linotype-machine. No. 952,397; Mar. 15; Sp. p. 3891; Gaz. vol. 152; p. 696.
Wilson, Robert. (See Wilkie and Wilson.)
Wilson, Robert A. and A. P., Watertown, Mass. Pencil-pointer. No. 972,488; Oct. 11; Sp. p. 2105; Gaz. vol. 159; p. 366.
Wilson, Robert G., Alaska, W. Va. Air-cooling apparatus. No. 962,284; June 21; Sp. p. 4295; Gaz. vol. 155; p. 742.
Wilson, Robert H., Indianapolis, Ind. Window-guard. No. 973,733; Oct. 25; Sp. p. 4875; Gaz. vol. 159; p. 847.
Wilson, Rollin C. (See Schulte and Wilson.)
Wilson, Samuel B. (See Hannay and Wilson.)
Wilson, Samuel S., Moundsville, assignor of one-fourth to C. A. Young, Wheeling, W. Va. Lamp-lens. No. 945,356; Jan. 4; Sp. p. 763; Gaz. vol. 150; p. 117.
Wilson, Samuel T., and C. K. McDermott, Charleston, W. Va. Metallic railway-tie. No. 962,996; June 28; Sp. p. 5775; Gaz. vol. 155; p. 1011.
Wilson, Stephen G., Philadelphia, Pa. Broom attachment. No. 953,112; Mar. 29; Sp. p. 5456; Gaz. vol. 152; p. 997.
Wilson, Stephen G., Philadelphia, Pa. Broom-holder. No. 961,472; June 14; Sp. p. 2535; Gaz. vol. 155; p. 444.
Wilson, Stephen G., Philadelphia, Pa. Bed-tent. No. 968,017; Aug. 23; Sp. p. 4630; Gaz. vol. 157; p. 809.
Wilson, Stephen G., Philadelphia, Pa. Broom-brace. No. 975,916; Nov. 15; Sp. p. 4050; Gaz. vol. 160; p. 682.
Wilson, Stephen G., assignor of one-fourth to J. A. McSherry, Philadelphia, Pa. Brush-back. No. 965,786; July 26; Sp. p. 6026; Gaz. vol. 156; p. 1023.
Wilson, Thomas G. A., Vancouver, British Columbia, Canada. Manufacturing briquets. No. 958,950; May 24; Sp. p. 5517; Gaz. vol. 154; p. 927.
Wilson, Thomas M., Philadelphia, Pa. Kiln. No. 946,086; Jan. 11; Sp. p. 2376; Gaz. vol. 150; p. 395.
Wilson, Thomas M., Philadelphia, Pa. Kiln. No. 946,087; Jan. 11; Sp. p. 2379; Gaz. vol. 150; p. 395.
Wilson, Thomas M., Philadelphia, Pa. Kiln. No. 946,088; Jan. 11; Sp. p. 2382; Gaz. vol. 150; p. 396.
Wilson, Thomas M., Philadelphia, Pa. Kiln. No. 946,089; Jan. 11; Sp. p. 2384; Gaz. vol. 150; p. 397.
Wilson, Thomas M., Philadelphia, Pa. Kiln. No. 952,777; Mar. 22; Sp. p. 4752; Gaz. vol. 152; p. 856.
Wilson, Virgil A., East Point, Ga. Extension-level. No. 953,113; Mar. 29; Sp. p. 5457; Gaz. vol. 152; p. 997.
Wilson, Walter S. (See Brewster, Bertram F., assignor.)
Wilson, Wilbur O., Chicago, Ill. Electric-cable joint. No. 975,592; Nov. 15; Sp. p. 3371; Gaz. vol. 160; p. 572.
Wilson, William A., De Leon, Tex. Seed-planter. No. 950,086; Feb. 22; Sp. p. 4910; Gaz. vol. 151; p. 863.
Wilson, William B., Delta, Iowa. Ventilating device for windows. No. 950,465; Feb. 22; Sp. p. 5650; Gaz. vol. 151; p. 990.
Wilson, William C., Brooklyn, N. Y. Non-refillable bottle. No. 959,186; May 24; Sp. p. 6015; Gaz. vol. 154; p. 1005.
Wilson, William H., New York, N. Y. Supporter for collars, &c. No. 975,493; Nov. 15; Sp. p. 3154; Gaz. vol. 160; p. 538.
Wilson, William K., and J. Wallbillich, assignors to New Orleans Copper Works, New Orleans, La. Still. No. 946,186; Jan. 11; Sp. p. 2592; Gaz. vol. 150; p. 430.
Wilson, William T. (See Shore and Wilson.)
Wilson, William W., Chicago, Ill., assignor to Universal Adding Machine Company, St. Louis, Mo. Adding-machine. No. 978,527; Dec. 13; Sp. p. 2395; Gaz. vol. 161; p. 413.
Wilstam, Alfred, Los Angeles, Cal. Motive-power system. No. 968,724; Aug. 30; Sp. p. 6177; Gaz. vol. 157; p. 1079.
Wilt, Abram D., Jr., Detroit, Mich. Twist-drill machine. No. 978,097; Dec. 6; Sp. p. 1451; Gaz. vol. 161; p. 234.
Wilt, Charles T., assignor to C. T. Wilt, a Copartnership composed of C. T. Wilt and E. E. Wilt, Chicago, Ill. Extensible clothing-support. No. 963,346; July 5; Sp. p. 767; Gaz. vol. 156; p. 112.
Wilt, Charles T. and E. E. (See Wilt, Charles T., assignor.)
Wilt, Samuel W., Fremont, Ohio. Nut-lock. No. 972,669; Oct. 11; Sp. p. 2525; Gaz. vol. 159; p. 430.
Wilt, William A., Tyrone, Pa. Nut-lock. No. 969,434; Sept. 6; Sp. p. 603; Gaz. vol. 158; p. 96.
Wilton, Harry H., assignor of one-half to M. C. Miller, Dighton, Mich. Hat-holder for theater-chairs. No. 948,264; Feb. 1; Sp. p. 986; Gaz. vol. 151; p. 162.
Wilton, Isaac H. (See Shimp and Wilton.)
Wiltsie, Claude E., *et al.* (See MacDiarmid, Wesley D. R., assignor.)
Wiltz, Albert, Chewelah, Wash. Eyeglasses. No. 951,714; Mar. 8; Sp. p. 2517; Gaz. vol. 152; p. 438.
Wilzin, Arthur, Paris, France. Screw-closure for bottles and other receptacles. No. 973,397; Oct. 18; Sp. p. 4156; Gaz. vol. 159; p. 709.
Wilzin, Arthur, Clichy, France, assignor to E. W. Bliss Co., Brooklyn, N. Y. Apparatus for sealing tins. No. 945,357; Jan. 4; Sp. p. 765; Gaz. vol. 150; p. 118.
Wimpfheimer & Bro., A. (See Benze, George, assignor.)
Winand, Paul, Cologne, Germany. Maintaining equality of weight in submarine boats while in operation. No. 953,881; Apr. 5; Sp. p. 392; Gaz. vol. 153; p. 71.
Winand, Paul, Cologne, Germany. Operating combustion-engines. No. 970,152; Sept. 13; Sp. p. 2151; Gaz. vol. 158; p. 366.
Winand, Paul, Cologne, Germany. Combustion-engine plant for submarine craft. No. 970,153; Sept. 13; Sp. p. 2153; Gaz. vol. 158; p. 367.
Winand, Paul, Cologne, Germany. Controlling combustion-engines. No. 970,154; Sept. 13; Sp. p. 2155; Gaz. vol. 158; p. 367.
Winans, Daniel M. (See Winans, Thomas J. and D. M.)
Winans, Earl W., assignor to Regal Motor Car Company, Detroit, Mich. Radiator. No. 955,241; Apr. 19; Sp. p. 3340; Gaz. vol. 153; p. 596.
Winans, Henry E., Belleville, Ill. Target-trap. No. 963,347; July 5; Sp. p. 769; Gaz. vol. 156; p. 113.
Winans, James N., Fergus Falls, Minn. Vegetable-slicer. No. 945,889; Jan. 11; Sp. p. 1967; Gaz. vol. 150; p. 328.
Winans Machine Company, The. (See Winans, Thomas J. and D. M., assignors.)
Winans, Thomas J. and D. M., assignors to The Winans Machine Company, Binghamton, N. Y. Cleaning apparatus. No. 975,095; Nov. 8; Sp. p. 2293; Gaz. vol. 160; p. 375.
Winans, Wesley G., Cleveland, Ohio, assignor to Spokane Automatic Seat Company, Spokane, Wash. Store stool or seat. No. 964,078; July 12; Sp. p. 2317; Gaz. vol. 156; p. 381.
Winant, Gilbert S., Rochester, assignor to Saver Manufacturing Co., New York, N. Y. Washing-machine. No. 953,882; Apr. 5; Sp. p. 394; Gaz. vol. 153; p. 72.
Winant, Gilbert S., Rochester, assignor to Saver Manufacturing Co., New York, N. Y. Washing-machine. No. 960,473; June 7; Sp. p. 464; Gaz. vol. 155; p. 78.
Winant, Gilbert S., Rochester, assignor to Saver Manufacturing Co., New York, N. Y. Waste-pipe for laundry-tubs. No. 963,101; July 5; Sp. p. 172; Gaz. vol. 156; p. 26.
Winchester, George, Black Bear, Idaho. Folding candlestick. No. 961,190; June 14; Sp. p. 1916; Gaz. vol. 155; p. 348.

Alphabetical list of patentees—Continued.

Winchester, James D., Beverly, Mass. Divided last. No. 959,672; May 31; Sp. p. 7023; Gaz. vol. 154; p. 1193.
Winchester Optical Company. (See Slavin, William J., assignor.)
Winchester Repeating Arms Co. (See Bennett, Winchester, assignor.)
Winchester Repeating Arms Co. (See Buell, William H., assignor.)
Winchester Repeating Arms Co. (See Burton, Frank F., assignor.)
Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
Winchester Repeating Arms Co. (See Knous, Franklin F., assignor.)
Winckler, Albert and C., Lyon, France. Bale and like transporter. No. 964,079; July 12; Sp. p. 2319; Gaz. vol. 156; p. 381.
Winckler, Charles. (See Winckler, Albert and C.)
Windeknecht, August, Berlin, Germany. Sash-bar for glass roofs. No. 947,009; Jan. 18; Sp. p. 4481; Gaz. vol. 150; p. 737.
Windel, Theodore, New York, N. Y. Balancing and steering planes. No. 964,828; July 19; Sp. p. 3997; Gaz. vol. 156; p. 665.
Winders, Marselous C., Meridian, Miss. Churn. No. 955,930; Apr. 26; Sp. p. 4859; Gaz. vol. 153; p. 859.
Windhoff, Fritz, Rheine, Germany. Belt-tensioning device. No. 945,661; Jan. 4; Sp. p. 1404; Gaz. vol. 150; p. 219.
Windhorst, John F., Seymour, Ind. Cultivating implement. No. 963,102; July 5; Sp. p. 173; Gaz. vol. 156; p. 27.
Window Glass Machine Company. (See Clark, Henry F., assignor.)
Window Glass Machine Company. (See Fees, Allison P., assignor.)
Window Glass Machine Company. (See Frink, Robert L., assignor.)
Windsor, Benjamin F. (See White, William F., assignor.)
Windsor, Fred E., *et al.* (See Longtine, Robert V., assignor.)
Windsor, Jeremiah D., Nokomis, Ill. Mechanical movement. No. 956,462; Apr. 26; Sp. p. 6016; Gaz. vol. 153; p. 1044.
Winecoff, John E. L., Whiteville, N. C. Violin. No. 954,487; Apr. 12; Sp. p. 1683; Gaz. vol. 153; p. 305.
Wineman, Gustave A., Detroit, Mich. Cash-register. No. 952,554; Mar. 22; Sp. p. 4244; Gaz. vol. 152; p. 779.
Winestock, Otto C., Perkinsville, Vt. Spark-plug. No. 945,890; Jan. 11; Sp. p. 1969; Gaz. vol. 150; p. 328.
Winfield Electric Welding Company, The. (See Winfield, William C., assignor.)
Winfield, William C., assignor to The Winfield Electric Welding Company, Warren, Ohio. Electrical spot-welding machine. No. 978,418; Dec. 13; Sp. p. 2166; Gaz. vol. 161; p. 376.
Wing, Esther, Eureka, Cal. Baking-pan. No. 955,033; Apr. 12; Sp. p. 2916; Gaz. vol. 153; p. 493.
Wing, George C., trustee. (See Wing and Hempy, assignors.)
Wing, George C., and F. W. Hempy, assignors to G. C. Wing, trustee, Cleveland, Ohio. Street-car and similar vehicle. No. 953,502; Mar. 29; Sp. p. 6294; Gaz. vol. 152; p. 1128.
Wing, George C., and F. W. Hempy, Cleveland, Ohio, assignors to said Wing, trustee. Street-car and similar vehicle. No. 965,972; Aug. 2; Sp. p. 260; Gaz. vol. 157; p. 44.
Wing, James, and B. O'Reilly, Sheffield, England. Twist-drill. No. 953,883; Apr. 5; Sp. p. 396; Gaz. vol. 153; p. 72.
Winge, Knud E., Copenhagen, Denmark. Speed-controlling apparatus. No. 953,164; Mar. 29; Sp. p. 5560; Gaz. vol. 152; p. 1014.
Wingeier, Samuel T., Zanesville, Ohio. Envelop. No. 972,045; Oct. 4; Sp. p. 1168; Gaz. vol. 159; p. 197.
Winger, Richard, and L. E. Johnston, Newton, Iowa. Gearing for washing-machines. No. 968,302; Aug. 23; Sp. p. 5263; Gaz. vol. 157; p. 906.
Winger, William W., Wolcott, Ind. Draft appliance. No. 971,870; Oct. 4; Sp. p. 767; Gaz. vol. 159; p. 133.
Wingo, W. W. (See Powell, Ward B., assignor.)
Wingren, Carl A., Bemidji, Minn. Gun-sight. No. 965,677; July 26; Sp. p. 5806; Gaz. vol. 156; p. 986.
Winkel, Frank C. (See Story and Winkel.)
Winkelman, Frederick B., Churdan, Iowa. Ditching-machine. No. 975,593; Nov. 15; Sp. p. 3372; Gaz. vol. 160; p. 573.
Winkelmeyer, John, assignor of one-half to T. S. Gettle, Anderson, Ind. Combined meat slicer and cutter. No. 949,344; Feb. 15; Sp. p. 3286; Gaz. vol. 151; p. 576.
Winkler, Ehregett T. (See Easton and Winkler.)
Winkler, Ehregott T., assignor of one-half to J. W. Roberts, Kansas City, Mo. Refrigerating system. No. 971,162; Sept. 27; Sp. p. 4304; Gaz. vol. 158; p. 757.
Winkler, Ehregott T., assignor of one-third to P. A. Hildebran, one-third to D. P. Gray, and one-third to J. W. Roberts, Kansas City, Mo. Condenser. No. 968,909; Aug. 30; Sp. p. 6557; Gaz. vol. 157; p. 1141.
Winkler, Frederick W., Hancock, Mich. Reverberatory furnace. No. 966,285; Aug. 2; Sp. p. 939; Gaz. vol. 157; p. 149.
Winkler, John L., Dayton, Ohio. Life-saving apparatus. No. 976,240; Nov. 22; Sp. p. 4770; Gaz. vol. 160; p. 817.
Winkler, Kaspar, Zurich, Switzerland. Producing transparent, flexible, and infusible insulating means. No. 950,979; Mar. 1; Sp. p. 1078; Gaz. vol. 152; p. 173.
Winkler, Otto, Köpenick, Germany, assignor to General Electric Company. Steering device for vehicles. No. 968,303; Aug. 23; Sp. p. 5265; Gaz. vol. 157; p. 907.
Winkley Company, The. (See Strong and Bartlett, assignors.)
Winkley, Erastus E., Lynn, Mass. Jack for shoe-machines. No. 961,747; June 14; Sp. p. 3109; Gaz. vol. 155; p. 537.
Winkley, Erastus E., Lynn, Mass. Welt grooving and beveling machine. No. 977,496; Dec. 6; Sp. p. 148; Gaz. vol. 161; p. 26.
Winkley, Erastus E., Lynn, Mass. Heel-nailing machine. No. 979,237; Dec. 20; Sp. p. 3958; Gaz. vol. 161; p. 683.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Presser-foot mechanism. No. 971,014; Sept. 20; Sp. p. 3975; Gaz. vol. 158; p. 680.
Winlack, Christina, Niles, Mich. Combined container and grating device. No. 949,388; Feb. 15; Sp. p. 3395; Gaz. vol. 151; p. 592.
Winlack, Thomas, Niles, Mich. Printing-press. No. 961,567; June 14; Sp. p. 2750; Gaz. vol. 155; p. 476.
Winn, Adelbert, Milwaukee, Wis. Railway-track construction. No. 963,844; July 12; Sp. p. 1835; Gaz. vol. 156; p. 302.
Winn, James W., Chicago, Ill. Curtain attachment for sleeping-car berths. No. 946,417; Jan. 11; Sp. p. 3182; Gaz. vol. 150; p. 511.
Winne, Earl E. (See Hare and Winne.)
Winne, Ernest, New York, N. Y. Door-knob. No. 976,328; Nov. 22; Sp. p. 4968; Gaz. vol. 160; p. 846.
Winner, Friedrich W., Han-Yang, China. Casting metal bars, wires, and pipes. No. 950,884; Mar. 1; Sp. p. 890; Gaz. vol. 152; p. 142.
Winquest, Charles E., Omaha, Nebr. Detachable belt-strap. No. 953,884; Apr. 5; Sp. p. 397; Gaz. vol. 153; p. 72.
Winship, Walter E., New York, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 957,530; May 10; Sp. p. 2207; Gaz. vol. 154; p. 382.
Winslow Bros. Company, The. (See Winslow, Francis A., assignor.)
Winslow, Francis A., assignor to The Winslow Bros. Company, Chicago, Ill. Bracket for structural work. No. 957,531; May 10; Sp. p. 2210; Gaz. vol. 154; p. 382.
Winslow, Fred E., Des Moines, Iowa. Selective ringing system for party-line telephones. No. 953,082; Mar. 29; Sp. p. 5363; Gaz. vol. 152; p. 987.
Winslow, George H., South Hadley, Mass. Pulley-guard. No. 968,304; Aug. 23; Sp. p. 5266; Gaz. vol. 157; p. 907.
Winslow, Horace L., Chicago, Ill. Apparatus for recovering blow-off products from boilers and conserving the heat energy therein. No. 973,603; Oct. 25; Sp. p. 4587; Gaz. vol. 159; p. 800.
Winslow, Lenna R., Chicago, Ill. Interlocking mechanism. No. 963,103; July 5; Sp. p. 175; Gaz. vol. 156; p. 27.
Winslow, Lenna R., Chicago, Ill. Voting-machine auxiliary interlock. No. 963,104; July 5; Sp. p. 182; Gaz. vol. 156; p. 27.
Winslow, Lenna R., Chicago, Ill. Independent-ballot-voting mechanism. No. 965,352; July 26; Sp. p. 5087; Gaz. vol. 156; p. 873.
Winslow, Lenna R., Chicago, Ill. General-voting mechanism. No. 966,633; Aug. 9; Sp. p. 1707; Gaz. vol. 157; p. 292.
Winslow, Lenna R., Kansas City, Mo. Voting-machine. No. 963,105; July 5; Sp. p. 192; Gaz. vol. 156; p. 28.
Winslow, Lenna R., Cleveland, Ohio. Voting-machine. No. 966,148; Aug. 2; Sp. p. 629; Gaz. vol. 157; p. 103.
Winslow, Lenna R., Columbus, Ohio. Voting-machine. No. 966,505; Aug. 9; Sp. p. 1417; Gaz. vol. 157; p. 248.
Winslow, Sidney W. (See Holmes, Charles P. and E., assignors.)
Winslow, William H., Chicago, Ill. Plating tubes, &c. No. 950,777; Mar. 1; Sp. p. 684; Gaz. vol. 152; p. 109.
Winslow, William H., assignor to The Steam Power Devices Company, Chicago, Ill. Wind-shield for vehicles. No. 978,254; Dec. 13; Sp. p. 1816; Gaz. vol. 161; p. 318.
Winston, Charles S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Auxiliary signaling apparatus for telephone-lines. No. 947,320; Jan. 25; Sp. p. 5145; Gaz. vol. 150; p. 869.
Winston, Charles S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone trunk-circuit. No. 965,973; Aug. 2; Sp. p. 263; Gaz. vol. 157; p. 44.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 967,475; Aug. 16; Sp. p. 3507; Gaz. vol. 157; p. 604.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 967,476; Aug. 16; Sp. p. 3510; Gaz. vol. 157; p. 604.

Alphabetical list of patentees—Continued.

Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone trunking system. No. 971,651; Oct. 4; Sp. p. 293; Gaz. vol. 159; p. 53.

Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone trunking system. No. 976,241; Nov. 22; Sp. p. 4772; Gaz. vol. 160; p. 817.

Winston, Edgar V., Camden, Ark. Bachelor-button. No. 972,309; Oct. 11; Sp. p. 1736; Gaz. vol. 159; p. 305.

Winston, Erasmus N., and N. W. Bywater; said Bywater assignor to C. Sale, Louisville, Ky. Stencil-inker. No. 965,353; July 26; Sp. p. 5089; Gaz. vol. 156; p. 874.

Winter, Frederick W. (See Brand and Winter.)

Winter, George H., Chicago, Ill. Comb-cleaner. No. 950,125; Feb. 22; Sp. p. 4984; Gaz. vol. 151; p. 876.

Winter, Henry W., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for setting protectors for boots and shoes. No. 973,604; Oct. 25; Sp. p. 4594; Gaz. vol. 159; p. 801.

Winter, Henry W., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for setting heel and sole protectors. No. 973,605; Oct. 25; Sp. p. 4602; Gaz. vol. 159; p. 801.

Winter, Henry W., and B. J. Conlon, Lawrence, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Machine for setting heel and sole protectors for boots and shoes. No. 959,984; May 31; Sp. p. 7712; Gaz. vol. 154; p. 1300.

Winter, Herman, New York, assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Apparatus for producing stereotype-matrices. No. 948,655; Feb. 8; Sp. p. 1853; Gaz. vol. 151; p. 320.

Winter, John, Goshen, Ind. Nut for carriage-top props. No. 952,856; Mar. 22; Sp. p. 4908; Gaz. vol. 152; p. 883.

Winter, John, Goshen, Ind. Fireless cooker. No. 955,733; Apr. 19; Sp. p. 4420; Gaz. vol. 153; p. 762.

Winter, Louis, Detroit, Mich. Skylight. No. 945,891; Jan. 11; Sp. p. 1971; Gaz. vol. 150; p. 328.

Winter, Louis F. (See Lowry and Winter.)

Winter, Oscar, assignor, by mesne assignments, to The Clark Manufacturing Company, Cleveland, Ohio. Vacuum-trap. No. 955,374; Apr. 19; Sp. p. 3626; Gaz. vol. 153; p. 639.

Winter, Stephen, Bridgeport, Conn. Car-coupling. No. 951,896; Mar. 15; Sp. p. 2930; Gaz. vol. 152; p. 530.

Winterfield, Abram W., St. Paul, Minn. Mold for cement blocks. No. 969,232; Sept. 6; Sp. p. 189; Gaz. vol. 158; p. 31.

Winterhoff, Herman E., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Percussion musical instrument. No. 967,477; Aug. 16; Sp. p. 3513; Gaz. vol. 157; p. 605.

Winterling, Frank D., New York, N. Y. Locking device. No. 948,804; Feb. 8; Sp. p. 2179; Gaz. vol. 151; p. 370.

Wintermute, Peter, Portland, Oreg. Amusement apparatus. No. 972,310; Oct. 11; Sp. p. 1737; Gaz. vol. 159; p. 305.

Winters-Coleman Scale Company, The. (See Sonander, Andrew, assignor.)

Winters, Edward B., assignor to The Coffeyville Implement and Manufacturing Co., Coffeyville, Kans. Road-working machine. No. 946,187; Jan. 11; Sp. p. 2595; Gaz. vol. 150; p. 430.

Winters, George, assignor of one-half to P. M. Haller, Bay City, Mich. Shower-bath apparatus. No. 972,589; Oct. 11; Sp. p. 2366; Gaz. vol. 159; p. 403.

Winterton, H. E. (See Richberger, George, assignor.)

Winton, Alexander, Cleveland, Ohio. Transmission mechanism. No. 951,037; Mar. 1; Sp. p. 1168; Gaz. vol. 152; p. 191.

Winton, Alexander, Cleveland, Ohio. Controller for motor-vehicles. No. 972,047; Oct. 4; Sp. p. 1171; Gaz. vol. 159; p. 197.

Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Driving mechanism for motor-vehicles. No. 950,980; Mar. 1; Sp. p. 1079; Gaz. vol. 152; p. 173.

Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Throttle-operating mechanism for explosive-engines. No. 952,398; Mar. 15; Sp. p. 3894; Gaz. vol. 152; p. 697.

Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Automobile-engine hood. No. 960,132; May 31; Sp. p. 8035; Gaz. vol. 154; p. 1350.

Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Detachable and knockdown folding seat for automobile-tonneaus. No. 972,046; Oct. 4; Sp. p. 1170; Gaz. vol. 159; p. 197.

Winton Motor Carriage Company, The. (See Winton and Anderson, assignors.)

Wintzer, Rudolf, Milwaukee, Wis., assignor to Power and Mining Machinery Company, New York, N. Y. Engine-valve. No. 976,766; Nov. 22; Sp. p. 5906; Gaz. vol. 160; p. 997.

Winzer, Charles B., Tooting, London, England, assignor to E. P. Lehmann, Brandenburg-on-the-Havel, Germany. Spinning-top. No. 974,731; Nov. 1; Sp. p. 1477; Gaz. vol. 160; p. 228.

Wire Goods Company, The. (See Brewer, Alonzo G., assignor.)

Wire Goods Company, The. (See Douglas, Hammond B., assignor.)

Wire Goods Company, The. (See Washburn, Reginald, assignor.)

Wireless Telegraph Exploitation Company. (See Vreeland, Frederick K., assignor.)

Wirfs, Edward J., Memphis, Tenn. Door-fastener. No. 978,098; Dec. 6; Sp. p. 1457; Gaz. vol. 161; p. 235.

Wirkus, Julius, Minto, N. D. Freight-car door. No. 973,244; Oct. 18; Sp. p. 3834; Gaz. vol. 159; p. 656.

Wirt, Charles, Philadelphia, Pa., assignor to Charles Wirt and Company, Newark, N. J. Electrical indicator. No. 952,163; Mar. 15; Sp. p. 3433; Gaz. vol. 152; p. 617.

Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company. Fuseless rosette. No. 947,878; Feb. 1; Sp. p. 221; Gaz. vol. 151; p. 35.

Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 958,454; May 17; Sp. p. 4478; Gaz. vol. 154; p. 733.

Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company. Electric connecting device. No. 976,532; Nov. 22; Sp. p. 5428; Gaz. vol. 160; p. 917.

Wirt, Paul E., Bloomsburg, Pa. Tire construction. No. 951,869; Mar. 15; Sp. p. 2867; Gaz. vol. 152; p. 522.

Wirt, Paul E., Bloomsburg, Pa. Tire and tire-tread construction. No. 951,870; Mar. 15; Sp. p. 2873; Gaz. vol. 152; p. 522.

Wirt, Paul E., Bloomsburg, Pa. Tire construction. No. 951,871; Mar. 15; Sp. p. 2878; Gaz. vol. 152; p. 522.

Wirt, Paul E., Bloomsburg, Pa. Tire construction. No. 951,872; Mar. 15; Sp. p. 2882; Gaz. vol. 152; p. 523.

Wirt, Paul E., Bloomsburg, Pa. Tire construction. No. 951,873; Mar. 15; Sp. p. 2885; Gaz. vol. 152; p. 523.

Wirt, Paul E., Bloomsburg, Pa. Fountain-pen. No. 978,419; Dec. 13; Sp. p. 2169; Gaz. vol. 161; p. 376.

Wirt, Paul E., Bloomsburg, Pa. Fountain-pen. No. 978,420; Dec. 13; Sp. p. 2173; Gaz. vol. 161; p. 377.

Wirt, Reuben D., Philadelphia, Pa. Cart. No. 978,344; Dec. 13; Sp. p. 2011; Gaz. vol. 161; p. 350.

Wirth, Charles E., assignor to The Plume & Atwood Mfg. Co., Waterbury, Conn. Vapor-burner. No. 950,314; Feb. 22; Sp. p. 5369; Gaz. vol. 151; p. 942.

Wirth, Charles E., assignor to Plume & Atwood Manufacturing Co., Waterbury, Conn. Lamp-burner. No. 969,588; Sept. 6; Sp. p. 948; Gaz. vol. 158; p. 149.

Wirth, Charles E., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Match-box holder. No. 976,533; Nov. 22; Sp. p. 5430; Gaz. vol. 160; p. 917.

Wirthlin, Louis A., Madisonville, Ohio. Tongue for laced shoes. No. 972,427; Oct. 11; Sp. p. 1972; Gaz. vol. 159; p. 346.

Wirths, Charles G. (See Rosenfeld, Irvin, assignor.)

Wirts, Stephen M., Detroit, Mich. Sound-reproducing machine. No. 965,678; July 26; Sp. p. 5807; Gaz. vol. 156; p. 986.

Wirtz, Luis, Smethwick, England. Clutch. No. 957,401; May 10; Sp. p. 1951; Gaz. vol. 154; p. 338.

Wisconsin Engine Company. (See Sargent, Charles E., assignor.)

Wise, Benjamin F., St. Louis, Mo., assignor of one-half to W. T. Aydelott, Greenfield, Tenn. Composite railway-tie. No. 963,196; July 5; Sp. p. 428; Gaz. vol. 156; p. 61.

Wise, Burman, Orleans, Nebr. Fence-post. No. 949,206; Feb. 15; Sp. p. 2987; Gaz. vol. 151; p. 529.

Wise, Burman, Orleans, Nebr. Stock-waterer. No. 977,990; Dec. 6; Sp. p. 1223; Gaz. vol. 161; p. 197.

Wise, George W., Wooster, and H. A. Wise, assignors to The Wise Soda Apparatus Company, Cleveland, Ohio. Cooling apparatus. No. 955,242; Apr. 19; Sp. p. 3341; Gaz. vol. 153; p. 596.

Wise, George W. and H. A., assignors to The Wise Soda Apparatus Company, Cleveland, Ohio. Cooler and soda-fountain construction. No. 972,137; Oct. 4; Sp. p. 1343; Gaz. vol. 159; p. 227.

Wise, Henry A. (See Wise, George W. and H. A.)

Wise, James. (See Morrissy, Wise, and Byrne.)

Wise, James E., Butler, Pa. Machine for felling trees. No. 957,832; May 10; Sp. p. 2809; Gaz. vol. 154; p. 483.

Wise, Joseph C., Hillsboro, assignor of one-half to J. C. F. Frye, Stockport, Iowa. Neck-yoke center. No. 951,038; Mar. 1; Sp. p. 1170; Gaz. vol. 152; p. 192.

Wise Soda Apparatus Company, The. (See Wise, George W. and H. A., assignors.)

Wise, William D., Detroit, Minn., assignor of one-half to C. R. Stone, Fargo, N. D. Automatic cement-block machine. No. 961,664; June 14; Sp. p. 2934; Gaz. vol. 155; p. 508.

Wise, William D., Detroit, Minn., assignor of one-half to C. R. Stone, Fargo, N. D. Compression cement-block mold. No. 961,828; June 21; Sp. p. 3296; Gaz. vol. 155; p. 587.

Wisherd, John A. (See Klassen, John C., assignor.)

Alphabetical list of patentees—Continued.

Wismer, Joseph B., Franconia, Pa. Nut-lock. No. 972,968; Oct. 18; Sp. p. 3224; Gaz. vol. 159; p. 561.
Wismer, Joseph B., Franconia, Pa. Axle-nut. No. 975,189; Nov. 8; Sp. p. 2529; Gaz. vol. 160; p. 409.
Wismer, Joseph B., Franconia, Pa. Axle-nut. No. 977,246; Nov. 29; Sp. p. 6996; Gaz. vol. 160; p. 1189.
Wisner, Andrew J., assignor of three-twentieths to S. Smith, Philadelphia, Pa. Air-brake system. No. 955,625; Apr. 19; Sp. p. 4166; Gaz. vol. 153; p. 725.
Wisner, Willis. (See Dethlefs and Wisner.)
Wisniewski, Vincent, Berlin, Germany. Flying-machine, airship, and the like. No. 948,121; Feb. 1; Sp. p. 707; Gaz. vol. 151; p. 116.
Witham, George S., Sr., Sandy Hill, N. Y. Pulp-stock separator. No. 954,154; Apr. 5; Sp. p. 978; Gaz. vol. 153; p. 165.
Witherell, George E., E. R. Seward, Hartford, and G. L. Mason, Warehouse Point, assignors to The Hartford Machine Screw Company, Hartford, Conn. Variable-speed mechanism. No. 972,138; Oct. 4; Sp. p. 1347; Gaz. vol. 159; p. 227.
Withers, Edward A., Atlanta, Ga. Cotton-baling press. No. 952,291; Mar. 15; Sp. p. 3697; Gaz. vol. 152; p. 661.
Withers, Robert T., New Castle, Pa. Machine for folding sheet metal. No. 954,556; Apr. 12; Sp. p. 1835; Gaz. vol. 153; p. 328.
Withers, William J., assignor of one-half to M. J. McNeil, Conway, N. H. Self-lubricating pulley. No. 968,624; Aug. 30; Sp. p. 5930; Gaz. vol. 157; p. 1045.
Withey, James N., Chicago, Ill. Coat-pocket. No. 946,301; Jan. 11; Sp. p. 2849; Gaz. vol. 150; p. 473.
Withrow, Clarence B., Denver, Colo. Pneumatic annunciator and indicator. No. 961,055; June 7; Sp. p. 1637; Gaz. vol. 155; p. 274.
Withrow, John F. D., Toronto, Ontario, Canada, assignor to Raymond Concrete Pile Company, New York, N. Y. Method of and sectional core for making concrete piling. No. 977,356; Nov. 29; Sp. p. 7210; Gaz. vol. 160; p. 1227.
Witman, Arthur C., Columbus, Ohio. Gas-stove. No. 954,557; Apr. 12; Sp. p. 1842; Gaz. vol. 153; p. 329.
Witmer, John M. (See Wenger, Samuel M., assignor.)
Witmer, William H., Philadelphia, Pa. Window-ventilating device. No. 972,311; Oct. 11; Sp. p. 1738; Gaz. vol. 159; p. 305.
Witry, Louis W., assignor to Waterloo Gasoline Engine Company, Waterloo, Iowa. Combined charging and feeding device for gasolene-engines. No. 979,238; Dec. 20; Sp. p. 3971; Gaz. vol. 161; p. 684.
Witt, Charles A., *et al.* (See Lee, Isaac E., assignor.)
Witt, George E., San Francisco, Cal. Reducing-valve. No. 960,758; June 7; Sp. p. 1046; Gaz. vol. 155; p. 176.
Witt, George R., Waterloo, Iowa. Fire-escape. No. 955,243; Apr. 19; Sp. p. 3343; Gaz. vol. 153; p. 596.
Witt, John A., Chicago, Ill. Thread-cabinet. No. 962,285; June 21; Sp. p. 4296; Gaz. vol. 155; p. 742.
Witt, Karl K., Hazelhurst, Wis. Ice-saw. No. 958,684; May 17; Sp. p. 4920; Gaz. vol. 154; p. 807.
Wittemann Brothers. (See Wittemann, Rudolph W., assignor.)
Wittemann, Rudolph W., assignor to Wittemann Brothers, New York, N. Y. Bottle-capping machine. No. 963,017; June 28; Sp. p. 5811; Gaz. vol. 155; p. 1018.
Witten, Charles F., Norman, Okla. Stalk-cutter. No. 976,329; Nov. 22; Sp. p. 4969; Gaz. vol. 160; p. 847.
Wittich Success Shaft Sinking and Tunnelling Machine Company, The. (See Wittich, William F., assignor.)
Wittich, William F., Erie, Pa. Drilling mechanism. No. 969,233; Sept. 6; Sp. p. 191; Gaz. vol. 158; p. 31.
Wittich, William F., assignor to The Wittich Success Shaft Sinking and Tunnelling Machine Company, Erie, Pa. Tunneling-machine. No. 956,463; Apr. 26; Sp. p. 6017; Gaz. vol. 153; p. 1044.
Wittich, William F., assignor to The Wittich Success Shaft Sinking and Tunnelling Machine Company, Erie, Pa. Stone-cutting tool. No. 972,969; Oct. 18; Sp. p. 3225; Gaz. vol. 159; p. 561.
Wittig, Franz H. (See Just, Wittig, and Seyferth.)
Witting, Albin G. (See Brassert and Witting.)
Wittman, Carl, Emporia, Kans. Wrench. No. 948,946; Feb. 8; Sp. p. 2446; Gaz. vol. 151; p. 416.
Wittmann, Joseph H. (See Hillenbrand, Charles W., assignor.)
Wittmann, Joseph H., Kansas City, Mo. Envelop. No. 978,421; Dec. 13; Sp. p. 2175; Gaz. vol. 161; p. 377.
Wittnauer, Emile J., New York, N. Y. Watchcase. No. 969,589; Sept. 6; Sp. p. 949; Gaz. vol. 158; p. 150.
Witwer, Harvey O., Lethbridge, Alberta, Canada. Train-pipe coupling. No. 977,917; Dec. 6; Sp. p. 1077; Gaz. vol. 161; p. 171.
Witzel, Charles J. (See Luppino, Joseph, assignor.)
Witzel, Charles J., New York, N. Y. Wire mattress. (Reissue.) No. 13,125; June 28; Sp. p. 5842; Gaz. vol. 155; p. 1024.
Witzel, Joseph K., Chicago, Ill. Bolt-cleaner. No. 954,237; Apr. 5; Sp. p. 1158; Gaz. vol. 153; p. 193.
Witzenmann, Emil. (See Koenig, Johann, assignor.)
Witzenmann, Emil, Pforzheim, Germany. Machine for armoring cables. No. 946,090; Jan. 11; Sp. p. 2386; Gaz. vol. 150; p. 397.
Witzenmann, Emil, Pforzheim, Germany. End connection for metallic hose-pipes. No. 959,187; May 24; Sp. p. 6016; Gaz. vol. 154; p. 1005.
Witzenmann, Emil, Pforzheim, Germany. Winding-head for armoring cables and the like. No. 962,186; June 21; Sp. p. 4092; Gaz. vol. 155; p. 710.
Witzenmann, Emil, Pforzheim, Germany. Hose. No. 973,901; Oct. 25; Sp. p. 5227; Gaz. vol. 159; p. 906.
Witzenmann, Emil, Pforzheim, and E. Stein, Charlottenburg, Germany. Spiral metallic hose. No. 967,260; Aug. 16; Sp. p. 3063; Gaz. vol. 157; p. 531.
Wixon, Howard H., Chicago, Ill. Explosive-engine. No. 947,566; Jan. 25; Sp. p. 5720; Gaz. vol. 150; p. 950.
Wizard Patent Developing Company. (See Irving, James A., assignor.)
Wm. B. Scaife & Sons Company. (See Greth, John C. W., assignor.)
Wm. B. Scaife & Sons Company. (See Newman, Martin F., assignor.)
Wm. F. Rothe and Company. (See Rothe, William F., assignor.)
Wm. J. Oliver Manufacturing Company, The. (See Rossetter, James R., assignor.)
Wm. L. Gilbert Clock Company, The. (See Alford, Frank R., assignor.)
Woberman, Johnn C., Brush, Colo. Riveting-tool. No. 948,265; Feb. 1; Sp. p. 986; Gaz. vol. 151; p. 163.
Wodtli, Gottlieb, Foster, Oreg. Governor for spring-motors. No. 966,782; Aug. 9; Sp. p. 2061; Gaz. vol. 157; p. 343.
Woeber, Adam, Denver, Colo. Dump-wagon. No. 969,082; Aug. 30; Sp. p. 6894; Gaz. vol. 157; p. 1200.
Woelfel, Ernest A. (See McKeen, Gordon, assignor.)
Woerheide, William H., St. Louis, Mo. Cleat for securing prepared roofing. No. 973,902; Oct. 25; Sp. p. 5228; Gaz. vol. 159; p. 906.
Woerner, Albert M., New York, assignor of one-half to F. Friederich, Brooklyn, N. Y., and one-half to Francis L. Bouquet, Edgewater, N. J. Sash-cord fastener. No. 977,247; Nov. 29; Sp. p. 6997; Gaz. vol. 160; p. 1190.
Woerner, Alfred O., *et al.*, trustees. (See Smith, Arthur K., assignor.)
Woerner, Eugen, Cannstatt, Germany. Oil-pump. No. 956,016; Apr. 26; Sp. p. 5037; Gaz. vol. 153; p. 890.
Woernle, Heinrich, Stuttgart, Germany. Time-table-display case. No. 946,649; Jan. 18; Sp. p. 3660; Gaz. vol. 150; p. 613.
Woessner, N. E. (See Stryker, Robert D., assignor.)
Wogoman, Perry. (See Kinsel and Wogoman.)
Wohl, Maurice J. (See Hertzberg and Wohl.)
Wohl, Maurice J. (See Hertzberg, Low, and Wohl.)
Wohl, Maurice J., *et al.*, trustees. (See Hertzberg, Harry, assignor.)
Wohl, Maurice J., *et al.*, trustees. (See Wohl and Hertzberg, assignors.)
Wohl, Maurice J., and H. Hertzberg, New York, assignors to Economy Electric Company, Brooklyn, N. Y. Electrical connection. No. 962,071; June 21; Sp. p. 3820; Gaz. vol. 155; p. 669.
Wohl, Maurice J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Recording electrical meter. No. 947,266; Jan. 25; Sp. p. 4990; Gaz. vol. 150; p. 848.
Wohl, Maurice J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Electrical measuring instrument. No. 947,267; Jan. 25; Sp. p. 4992; Gaz. vol. 150; p. 848.
Wohl, Maurice J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, N. Y., and M. J. Wohl and H. Hertzberg, trustees. Electrical measuring instrument. No. 950,647; Mar. 1; Sp. p. 393; Gaz. vol. 152; p. 63.
Wohl, Maurice J., New York, and H. Hertzberg, Brooklyn, N. Y., assignors to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Electrically-operated means for producing mechanical movements. No. 952,778; Mar. 22; Sp. p. 4755; Gaz. vol. 152; p. 856.
Wohl, Maurice J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Circuit-breaker. No. 959,827; May 31; Sp. p. 7354; Gaz. vol. 154; p. 1245.
Wohl, Maurice J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, N. Y., M. J. Wohl and H. Hertzberg, trustees. Signaling device. No. 962,687; June 28; Sp. p. 5179; Gaz. vol. 155; p. 904.
Wohl, Maurice J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, N. Y., M. J. Wohl, and H. Hertzberg, trustees. Electrical measuring instrument. No. 973,152; Oct. 18; Sp. p. 3624; Gaz. vol. 159; p. 624.
Wohlfahrt, John F., St. Louis, Mo. Aquarium. No. 976,242; Nov. 22; Sp. p. 4777; Gaz. vol. 160; p. 818.
Wohlfarth, Albert. (See Gottschall, Paul, assignor.)
Wohlfeld, Samuel, Philadelphia, Pa. Automobile-tire trunk. No. 973,329; Oct. 18; Sp. p. 4006; Gaz. vol. 159; p. 685.

Wohlwill, Heinrich, assignor to Norddeutsche Affinerie, Hamburg, Germany. Refining gold. No. 961,924; June 21; Sp. p. 3502; Gaz. vol. 155; p. 619.
Wolary, Wilbur W., Washington, Iowa. Ditching-tool. No. 976,970; Nov. 29; Sp. p. 6403; Gaz. vol. 160; p. 1094.
Wolary, Wilbur W., and W. B. Dupuis, Washington, Iowa. Trowel. No. 952,971; Mar. 22; Sp. p. 5129; Gaz. vol. 152; p. 921.
Wolber, Antoine, Vailly, Aisne, France. Pneumatic tire for vehicle-wheels. No. 956,464; Apr. 26; Sp. p. 6019; Gaz. vol. 153; p. 1044.
Wolcott, Charles A., *et al.* (See Farley and McDonald, assignors.)
Wolcott, Charles H., Forsyth, Ga. Starter for automobiles. No. 953,885; Apr. 5; Sp. p. 398; Gaz. vol. 153; p. 72.
Wolcott, Charles H., C. O., Jr., and E. N. Goodwyne, Forsyth, Ga. Fender. No. 977,991; Dec. 6; Sp. p. 1224; Gaz. vol. 161; p. 197.
Wolcott, Dewey, Norwalk, Ohio. Holder for floor-coverings. No. 971,511; Sept. 27; Sp. p. 4974; Gaz. vol. 158; p. 871.
Wolcott, Guy W., Healdsburg, Cal. Combination level and square. No. 974,007; Oct. 25; Sp. p. 5444; Gaz. vol. 159; p. 943.
Wolcott, Henry, Providence, R. I. Making pins. No. 973,153; Oct. 18; Sp. p. 3627; Gaz. vol. 159; p. 624.
Wolcott, J. A. (See Caldwell, Mack, assignor.)
Wold, Carl O., Minneapolis, Minn. Road-grading machine. No. 968,439; Aug. 23; Sp. p. 5530; Gaz. vol. 157; p. 954.
Wold, Carl O., assignor of one-half to E. E Ellertson, Minneapolis, Minn. Culvert-pipe. No. 970,772; Sept. 20; Sp. p. 3510; Gaz. vol. 158; p. 600.
Wold, Olaus C. (See Barnum, Frank D., assignor.)
Wolentarsky, Charles, assignor of one-fourth to C. H. Krippendorf, one-fourth to W. Fowler, and one-fourth to A. C. Oppenheimer, Cincinnati, Ohio. Attachment for sole-sewing machines. No. 978,099; Dec. 6; Sp. p. 1459; Gaz. vol. 161; p. 235.
Wolever, Franklin H., assignor, by mesne assignments, to S. Feist, Chicago, Ill. Pneumatic-despatch-tube system. No. 948,714; Feb. 8; Sp. p. 1979; Gaz. vol. 151; p. 339.
Wolever, Franklin H., Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Service Corporation. Sending-terminal for pneumatic-despatch-tube systems. No. 965,494; July 26; Sp. p. 5376; Gaz. vol. 156; p. 920.
Wolf, Arthur S., Chambersburg, Pa. Dust-collector. No. 963,845; July 12; Sp. p. 1837; Gaz. vol. 156; p. 302.
Wolf, Austin M., New York, N. Y. Carbureter. No. 954,488; Apr. 12; Sp. p. 1684; Gaz. vol. 153; p. 305.
Wolf, Austin M., New York, N. Y. Carbureter. No. 954,905; Apr. 12; Sp. p. 2666; Gaz. vol. 153; p. 451.
Wolf, Austin M., New York, N. Y. Differential-gear lock. No. 968,224; Aug. 23; Sp. p. 5098; Gaz. vol. 157; p. 878.
Wolf, Charles F., Southwick, Idaho. Rail-joint. No. 956,014; Apr. 26; Sp. p. 5034; Gaz. vol. 153; p. 890.
Wolf, Charles K., and F. McClain, near Xenia, Ohio. Shock-compressor. No. 979,118; Dec. 20; Sp. p. 3702; Gaz. vol. 161; p. 641.
Wolf, Charles R. (See Pence, Wolf, and Jarvis.)
Wolf, Edmund T., assignor to F. L. Zabriskie, New York, N. Y. Removable mold for making piano-hammers. No. 969,826; Sept. 13; Sp. p. 1480; Gaz. vol. 158; p. 256.
Wolf, Edmund T., assignor to F. L. Zabriskie, New York, N. Y. Removable mold for making piano-hammers. No. 969,827; Sept. 13; Sp. p. 1485; Gaz. vol. 158; p. 256.
Wolf, Emile, La Chaux-de-Fonds, Switzerland Mechanism for winding and setting watches. No. 966,149; Aug. 2; Sp. p. 650; Gaz. vol. 157; p. 104.
Wolf, Fannie, New York, N. Y. Garment-hanger. No. 951,470; Mar. 8; Sp. p. 2058; Gaz. vol. 152; p. 357.
Wolf, Frank, Jr. (See Lukl and Wolf.)
Wolf, George P., assignor to V. C. Hastings and E. G. Hewson, South Bend, Ind. Roof-bracket. No. 964,829; July 19; Sp. p. 3999; Gaz. vol. 156; p. 665.
Wolf, Henry L. R., Dayton, Ohio. Paper box. No. 977,770; Dec. 6; Sp. p. 774; Gaz. vol. 161; p. 120.
Wolf, John H., Mount Horeb, Wis. Collar-pad. No. 951,167; Mar. 8; Sp. p. 1423; Gaz. vol. 152; p. 258.
Wolf, John J., Philadelphia, Pa. Metal cask or barrel. No. 964,080; July 12; Sp. p. 2321; Gaz. vol. 156; p. 382.
Wolf, Lesser, assignor of eighty-five one-hundredths to D. S. Hoffman, New York, N. Y. Collar for coats and other garments. No. 963,106; July 5; Sp. p. 218; Gaz. vol. 156; p. 28.
Wolf, Linus, Boston, Mass. Welding-tool. No. 952,089; Mar. 15; Sp. p. 3293; Gaz. vol. 152; p. 593.
Wolf, Michael J. (See Massie, Alcinous, assignor.)
Wolf, Paul J., assignor to Diagraph Company, St. Louis, Mo. Stencil-cutting machine. No. 949,950; Feb. 22; Sp. p. 4569; Gaz. vol. 151; p. 817.
Wolf, Rudolf, and A. F. Bannister, Newark, N. J. Grinding device for blades. No. 964,598; July 19; Sp. p. 3433; Gaz. vol. 156; p. 587.
Wolfe, Arthur P., Buffalo, assignor to Huntley Mfg. Co., Silver Creek, N. Y. Roll for corn-husking machines and the like. No. 959,904; May 31; Sp. p. 7519; Gaz. vol. 154; p. 1270.
Wolfe, Jacob J., assignor to Peabody School Furniture Company, North Manchester, Ind. Folding chair. No. 947,090; Jan. 18; Sp. p. 4617; Gaz. vol. 150; p. 762.
Wolfe, John G., New York, N. Y. Nut-lock and tightening device. No. 975,594; Nov. 15; Sp. p. 3374; Gaz. vol. 160; p. 573.
Wolfe, Laura J., Columbus, Ohio. Filling for bedclothes and the like. No. 966,634; Aug. 9; Sp. p. 1714; Gaz. vol. 157; p. 292.
Wolfe, Leonard F., Weymouth, Mass. Hat-protector. No. 975,667; Nov. 15; Sp. p. 3558; Gaz. vol. 160; p. 598.
Wolfe, Thomas G., Oklahoma, Okla. Cotton-seed-meal cooker. No. 980,039; Dec. 27; Sp. p. 5668; Gaz. vol. 161; p. 976.
Wolfe, William G., C. E. Bissell, and W. J. Branstetter, Pittsburg, Kans. Indicator. No. 971,096; Sept. 27; Sp. p. 4171; Gaz. vol. 158; p. 736.
Wolfenden, Frank, West Point, Miss. Roller crushing-mill. No. 977,918; Dec. 6; Sp. p. 1082; Gaz. vol. 161; p. 172.
Wolff, August, New York, N. Y. Foot-rule pocket. No. 969,590; Sept. 6; Sp. p. 950; Gaz. vol. 158; p. 150.
Wolff, August, New York, N. Y. Window. No. 976,534; Nov. 22; Sp. p. 5431; Gaz. vol. 160; p. 917.
Wolff, August, New York, N. Y. Music-stand. No. 979,626; Dec. 27; Sp. p. 4772; Gaz. vol. 161; p. 838.
Wolff, Charles H. (See Hermann and Wolff.)
Wolff, Charles H., Pittsburg, Pa. Cash-register. No. 960,759; June 7; Sp. p. 1047; Gaz. vol. 155; p. 177.
Wolff, Fredrick J., Kansas City, Mo. Flour-handling apparatus. No. 971,811; Oct. 4; Sp. p. 626; Gaz. vol. 159; p. 110.
Wolff, Friedrich, Pittsburg, Pa. Temporary binder. No. 976,421; Nov. 22; Sp. p. 5181; Gaz. vol. 160; p. 880
Wolff, George, West Hoboken, N. J. Cigar-holder. No. 972,970; Oct. 18; Sp. p. 3227; Gaz. vol. 159; p. 561.
Wolff, Hugo. (See Isler and Wolff.)
Wolff, James. (See Tideman, Henry, assignor.)
Wolff, Louis, Jr., Chicago, Ill. Demountable-wheel-rim holder. No. 978,976; Dec. 20; Sp. p. 3365; Gaz. vol. 161; p. 591.
Wolff, Max F., Baltimore, Md. Garment-fastener. No. 977,579; Dec. 6; Sp. p. 374; Gaz. vol. 161; p. 55.
Wolff, Raphael H., New York, N. Y. Transferring dephosphorized molten steel. No. 946,302; Jan. 11; Sp. p. 2850; Gaz. vol. 150; p. 473.
Wolff, Raphael H., New York, N. Y. Electrode. No. 974,008; Oct. 25; Sp. p. 5446; Gaz. vol. 159; p. 943.
Wolff, Raphael H., New York, N. Y. Jar or receptacle. No. 976,021; Nov. 15; Sp. p. 4236; Gaz. vol. 160; p. 718.
Wolff, Robert W., South Erlanger, Ky. Platen for typewriting machines. No. 964,599; July 19; Sp. p. 3438; Gaz. vol. 156; p. 587.
Wolff, William E. (See Matheson, Richard T., assignor.)
Wolhaupter, Benjamin, New York, N. Y. Anticreeping device for rails. No. 945,068; Jan. 4; Sp. p. 139; Gaz. vol. 150; p. 22.
Wolhaupter, Benjamin, New York, N. Y. Anticreeping device for rails. No. 957,021; May 3; Sp. p. 1134; Gaz. vol. 154; p. 179.
Wolhaupter, Benjamin, New York, N. Y. Rail tie and fastening. No. 957,022; May 3; Sp. p. 1136; Gaz. vol. 154; p. 179.
Wolhaupter, Benjamin, New York, N. Y. Anticreeping device for rails. No. 957,023; May 3; Sp. p. 1138; Gaz. vol. 154; p. 179.
Wolhaupter, Benjamin, assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 950,587; Mar. 1; Sp. p. 256; Gaz. vol. 152; p. 42.
Wolken, Ike, *et al.* (See Schrader, Moritz, assignor.)
Wolkerstorfer, Joseph, St. Paul, Minn. Display-rack. No. 947,140; Jan. 18; Sp. p. 4700; Gaz. vol. 150; p. 776.
Wolkerstorfer, Joseph, St. Paul, Minn. Display-rack. No. 955,734; Apr. 19; Sp. p. 4422; Gaz. vol. 153; p. 763.
Woll, Peter, Jr., Philadelphia, Pa. Teasing or picking curled hair. No. 952,857; Mar. 22; Sp. p. 4909; Gaz. vol. 152; p. 884.
Wollar, John, Chicago, Ill. Barrel. No. 949,457; Feb. 15; Sp. p. 3516; Gaz. vol. 151; p. 614.
Wolle, Rudolph, Leipzig, Germany. Ferroconcrete pile. No. 961,191; June 14; Sp. p. 1918; Gaz. vol. 155; p. 348.
Wollenberg, Charles F., Irby, Wash. Gun-sight. No. 958,951; May 24; Sp. p. 5518; Gaz. vol. 154; p. 927.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 961,192; June 14; Sp. p. 1919; Gaz. vol. 155; p. 348.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Reel. No. 969,234; Sept. 6; Sp. p. 192; Gaz. vol. 158; p. 31.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Fishing-reel. No. 969,235; Sept. 6; Sp. p. 194; Gaz. vol. 158; p. 32.
Wollensak Optical Company. (See Coursen, George L., assignor.)
Wollensak Optical Company. (See Wollensak, Andrew, assignor.)
Wollheim, Heinrich, Berlin, Germany, assignor to The American Stamp and Ticket Vending Machine Company, Washington, D. C. Automatic coin-tester for coin-freed apparatus. No. 977,771; Dec. 6; Sp. p. 776; Gaz. vol. 161; p. 120.

Alphabetical list of patentees—Continued.

Wollheim, Heinrich, Berlin, Germany, assignor to The American Stamp & Ticket Vending Machine Company, New York, N. Y. Automatic coin-tester for coin-freed apparatus. No. 980,040; Dec. 27; Sp. p. 5670; Gaz. vol. 161; p. 976.

Wollheim and Ossenbach, Industriegesellschaft m. b. H., Heinrich. (See Oehring, Oscar, assignor.)

Wollman, Merton, *et al.* (See Baird, Archie M., assignor.)

Wolverine Supply & Manufacturing Company. (See Bain, Benjamin F., assignor.)

Wonder Sales Company. (See Avram, Moïs H., assignor.)

Wood, Alan, 3d, Conshohocken, Pa. Water-back for gas-ports. No. 968,018; Aug. 23; Sp. p. 4632; Gaz. vol. 157; p. 809.

Wood, Alfred V., Brunswick, Ga. Domestic garbage-furnace. No. 960,760; June 7; Sp. p. 1053; Gaz. vol. 155; p. 177.

Wood, Andrew J., *et al.* (See Wood, Sidney J., assignor.)

Wood, Arthur L., *et al.* (See Larouette, Henry P., assignor.)

Wood, Augustus, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Wheel-press. No. 946,930; Jan. 18; Sp. p. 4322; Gaz. vol. 150; p. 710.

Wood, Augustus, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Lathe-head clamp. No. 961,330; June 14; Sp. p. 2254; Gaz. vol. 155; p. 397.

Wood, Augustus, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Plate-planer. No. 963,348; July 5; Sp. p. 772; Gaz. vol. 156; p. 113.

Wood, Bertram E., Colorado Springs, Colo. Magnetic separator. No. 971,163; Sept. 27; Sp. p. 4307; Gaz. vol. 158; p. 757.

Wood, Charles E., assignor of one-half to O. J. Gunnell, Danville, Ill. Bolt-holder and wrench. No. 978,100; Dec. 6; Sp. p. 1460; Gaz. vol. 161; p. 235.

Wood, Charles P. (See Johnson and Wood.)

Wood, Edward C., Somerville, and H. G. Merden, Braintree, Mass., assignors to Submarine Signal Company, Waterville, Me. Apparatus for submarine signaling. No. 945,998; Jan. 11; Sp. p. 2205; Gaz. vol. 150; p. 366.

Wood, Everett S., assignor to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Filling-replenishing hopper. No. 973,094; Oct. 18; Sp. p. 3488; Gaz. vol. 159; p. 603.

Wood, Everett S., and J. Northrop, assignors to W. F. Draper, deceased, Hopedale, Mass.; C. H. Draper and O. H. Lane, executors. Filling-fork protector. No. 973,095; Oct. 18; Sp. p. 3492; Gaz. vol. 159; p. 603.

Wood, Frank W., Newport News, Va., assignor to C. and J. M. Cory, New York, N. Y. Multiple telephone-transmitter. No. 945,069; Jan. 4; Sp. p. 131; Gaz. vol. 150; p. 22.

Wood, Frank W., Newport News, Va., assignor to C. and J. M. Cory, New York, N. Y. Time-controlled and electrically-operated signaling system. No. 960,761; June 7; Sp. p. 1055; Gaz. vol. 155; p. 177.

Wood, Frank W., Newport News, Va., assignor to C. Cory & Son, New York, N. Y. Speed-indicator. No. 960,762; June 7; Sp. p. 1062; Gaz. vol. 155; p. 178.

Wood, Frank W., Newport News, Va., assignor to C. Cory & Son, New York, N. Y. Illuminated announcement and display signal. No. 974,943; Nov. 8; Sp. p. 1964; Gaz. vol. 160; p. 324.

Wood, Franz J., Des Moines, Iowa. Car-replacer. No. 955,375; Apr. 19; Sp. p. 3629; Gaz. vol. 153; p. 640.

Wood, Franz J., Des Moines, Iowa. Driving-gear for traction-engines. No. 978,977; Dec. 20; Sp. p. 3367; Gaz. vol. 161; p. 592.

Wood, Fred G., Yorkville, Mich., assignor to The Price Cereal Food Company, Chicago, Ill. Endless conveyer. No. 961,193; June 14; Sp. p. 1927; Gaz. vol. 155; p. 349.

Wood, Frederick L. (See Kelly and Wood.)

Wood, Frederick P., Detroit, Mich. Coating-machine. No. 968,826; Aug. 30; Sp. p. 6379; Gaz. vol. 157; p. 1112.

Wood, George E., and E. C. Meier, Phoenixville, Pa., assignors to Heine Safety Boiler Company, St. Louis, Mo. Rivet-calking tool. No. 959,673; May 31; Sp. p. 7025; Gaz. vol. 154; p. 1193.

Wood, George E., and E. C. Meier, Phoenixville, Pa., assignors to Heine Safety Boiler Company, St. Louis, Mo. Tool for upsetting and calking stay-bolts. No. 968,625; Aug. 30; Sp. p. 5932; Gaz. vol. 157; p. 1045.

Wood, George F., assignor of one-half to G. R. Smith, McKinney, Tex. Railway cattle-guard. No. 947,268; Jan. 25; Sp. p. 4994; Gaz. vol. 150; p. 849.

Wood, George W., assignor of one-half to M. Shapiro, Camden, N. J. Furnace-tile. No. 979,627; Dec. 27; Sp. p. 4774; Gaz. vol. 161; p. 838.

Wood, Harry P. (See Oesterblom, Isaac, assignor.)

Wood, Henry A., Port Dickinson, assignor of one-half to I. A. Hix, Binghamton, N. Y. Mitten. No. 973,330; Oct. 18; Sp. p. 4008; Gaz. vol. 159; p. 686.

Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Rotary printing-press for printing from intaglio half-tone printing-plates. No. 952,060; Mar. 15; Sp. p. 3245; Gaz. vol. 152; p. 584.

Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Automatic sheet-registering. No. 954,603; Apr. 12; Sp. p. 1938; Gaz. vol. 153; p. 344.

Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 965,974; Aug. 2; Sp. p. 267; Gaz. vol. 157; p. 45.

Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Offset-preventing device. No. 976,022; Nov. 15; Sp. p. 4237; Gaz. vol. 160; p. 718.

Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Stereotype-printing-plate-casting mechanism. No. 977,248; Nov. 29; Sp. p. 6998; Gaz. vol. 160; p. 1190.

Wood, Hiram D., Jr., Minneapolis, Minn. Electrical water-heater. No. 958,846; May 24; Sp. p. 5296; Gaz. vol. 154; p. 892.

Wood, James, Noblesville, Ind. Mail-bag catcher and deliverer. No. 948,778; Feb. 8; Sp. p. 2124; Gaz. vol. 151; p. 361.

Wood, James E., Birmingham, Ala. Harvesting-bag. No. 966,975; Aug. 9; Sp. p. 2461; Gaz. vol. 157; p. 405.

Wood, James I., assignor to Woods Gas Engine Company, Salida, Colo. Automatic fuel-cut-off governor for explosive-engines. No. 954,155; Apr. 5; Sp. p. 979; Gaz. vol. 153; p. 165.

Wood, James I., assignor to Woods Gas Engine Company, Salida, Colo. Explosive-engine. No. 970,976; Sept. 20; Sp. p. 3910; Gaz. vol. 158; p. 668.

Wood, James J., Fort Wayne, Ind. Magnetic switch. No. 958,788; May 24; Sp. p. 5163; Gaz. vol. 154; p. 870.

Wood, James M., deceased; S. B. Strother, administrator, assignor to K. G. Smith, Kansas City, Mo. Insulator for railway-trucks. No. 957,133; May 3; Sp. p. 1347; Gaz. vol. 154; p. 216.

Wood, James N., assignor to The Neely Compress and Cotton Co., Inc., Richmond, Va. Baling-press. No. 967,478; Aug. 16; Sp. p. 3515; Gaz. vol. 157; p. 605.

Wood, James N., assignor to The Neely Compress and Cotton Co., Inc., Richmond, Va. Baling device. No. 971,947; Oct. 4; Sp. p. 966; Gaz. vol. 159; p. 162.

Wood, James N., assignor to The Neely Compress and Cotton Company, Inc., Richmond, Va. Bale-box. No. 971,948; Oct. 4; Sp. p. 967; Gaz. vol. 159; p. 162.

Wood, James N., assignor to The Neely Compress and Cotton Co., Inc., Richmond, Va. Baling-press. No. 971,949; Oct. 4; Sp. p. 970; Gaz. vol. 159; p. 162.

Wood, James N., assignor to Neely Compress and Cotton Company, Inc., Richmond, Va. Baling-press. No. 971,950; Oct. 4; Sp. p. 973; Gaz. vol. 159; p. 163.

Wood, James N., assignor to Neely Compress and Cotton Company, Inc., Richmond, Va. Baling apparatus. No. 971,951; Oct. 4; Sp. p. 976; Gaz. vol. 159; p. 163.

Wood, James N., Richmond, Va., assignor to The Neely Compress and Cotton Co., Inc. Bale-box. No. 971,952; Oct. 4; Sp. p. 978; Gaz. vol. 159; p. 164.

Wood, James R., Dunlo, Pa. Refrigerator. No. 954,906; Apr. 12; Sp. p. 2667; Gaz. vol. 153; p. 451.

Wood, John H. (See Bolles, Robert O., assignor.)

Wood, Joseph H., Elyria, Ohio, assignor to National Tube Company, Pittsburg, Pa. Cutting apparatus. No. 947,724; Jan. 25; Sp. p. 6024; Gaz. vol. 150; p. 1003.

Wood, Montraville M., Chicago, Ill., assignor to General Electric Company. Strain-insulator. No. 951,354; Mar. 8; Sp. p. 1814; Gaz. vol. 152; p. 318.

Wood, Montraville M., Berwyn, assignor, by mesne assignments, to W. H. Foll, Freeport, Ill. Telephone-transmitter mouthpiece. No. 952,164; Mar. 15; Sp. p. 3435; Gaz. vol. 152; p. 618.

Wood, Montraville M., Berwyn, assignor, by mesne assignments, to W. H. Foll, Freeport, Ill. Telephone-transmitter mouthpiece. No. 952,165; Mar. 15; Sp. p. 3437; Gaz. vol. 152; p. 618.

Wood, Otis F. (See Morgan, Frederick, assignor.)

Wood, Richard W., Seattle, Wash. Index. No. 955,735; Apr. 19; Sp. p. 4424; Gaz. vol. 153; p. 763.

Wood, Samuel R., Cleveland, Ohio. Bottle rinser and sterilizer. No. 950,885; Mar. 1; Sp. p. 893; Gaz. vol. 152; p. 143.

Wood, Samuel W., and E. T. Thoma, Lookeba, Okla. Combination switch and lightning-arrester. No. 946,418; Jan. 11; Sp. p. 3183; Gaz. vol. 150; p. 512.

Wood, Sidney J., California, assignor of one-eighth to C. F. Adams, Wheatland, one-eighth to A. J. Wood, one-eighth to J. L. Buchanan, and one-eighth to R. L. Kay, California, Mo. Seed-sower. No. 967,096; Aug. 9; Sp. p. 2715; Gaz. vol. 157; p. 447.

Wood, Tingley S., Leadville, Colo. Protective seal. No. 972,971; Oct. 18; Sp. p. 3228; Gaz. vol. 159; p. 561.

Wood, W. Clarence, *et al.* (See Mapel, Lewis A., assignor.)

Wood, Wilfred R., London, England. Mechanical stoker. No. 970,868; Sept. 20; Sp. p. 3709; Gaz. vol. 158; p. 634.

Wood, William A., New York, N. Y. Suspension-bridge. No. 951,874; Mar. 15; Sp. p. 2888; Gaz. vol. 152; p. 523.

Wood, William H., Media, Pa. Hydraulic riveting-machine. No. 956,253; Apr. 26; Sp. p. 5571; Gaz. vol. 153; p. 972.

Wood, William L., Providence, R. I. Mail receiving and delivering apparatus. No. 946,630; Jan. 18; Sp. p. 3624; Gaz. vol. 150; p. 608.

Wood, William W., Raymond, Wash. Folding berry-box. No. 962,607; June 28; Sp. p. 5016; Gaz. vol. 155; p. 877.
Woodall, George, New York, N. Y. Flap check-valve. No. 955,931; Apr. 26; Sp. p. 4860; Gaz. vol. 153; p. 860.
Woodall, George, New York, N. Y. Valve mechanism for controlling fluid admission. No. 970,411; Sept. 13; Sp. p. 2682; Gaz. vol. 158; p. 453.
Woodall, Henry. (See Parkinson, Bernard R., assignor.)
Woodard, George F., Kalamazoo, Mich. Hay-press. No. 960,612; June 7; Sp. p. 757; Gaz. vol. 155; p. 125.
Woodard, William E., Schenectady, N. Y. Electric locomotive. No. 948,154; Feb. 1; Sp. p. 773; Gaz. vol. 151; p. 127.
Woodbridge, Joseph L., Philadelphia, Pa. Variable-ratio rotary converter. No. 949,251; Feb. 15; Sp. p. 3074; Gaz. vol. 151; p. 544.
Woodbridge, Joseph L., Philadelphia, Pa. System of electrical distribution. No. 955,447; Apr. 19; Sp. p. 3776; Gaz. vol. 153; p. 663.
Woodbridge, Joseph L., Philadelphia, Pa. System of electrical distribution. No. 964,830; July 19; Sp. p. 4001; Gaz. vol. 156; p. 666.
Woodbridge, Samuel H., Newton, Mass. Valve. No. 966,150; Aug. 2; Sp. p. 651; Gaz. vol. 157; p. 104.
Woodburn, Charles T. (See Ziegler and Woodburn.)
Woodburn, Charles T., Munhall, Pa. Propeller-wheel. No. 950,981; Mar. 1; Sp. p. 1080; Gaz. vol. 152; p. 173.
Woodbury, Frank P., *et al.* (See England, Arthur E., assignor.)
Woodbury, George E., deceased, San Francisco, Cal.; A. M. Haines, administrator. Vehicle-wheel. No. 975,378; Nov. 8; Sp. p. 2922; Gaz. vol. 160; p. 471.
Woodcock, John C., Litchfield, Ill. Feed-mill. No. 976,535; Nov. 22; Sp. p. 5434; Gaz. vol. 160; p. 918.
Woodenware Specialty Mfg. Co. (See Williams, David C., assignor.)
Woodfill, White W., Columbus, Ohio. Draft attachment for harness. No. 970,590; Sept. 20; Sp. p. 3077; Gaz. vol. 158; p. 536.
Woodin, Harry E., Laurens, Iowa. Sectional weed-hook. No. 958,055; May 17; Sp. p. 3470; Gaz. vol. 154; p. 594.
Woodland, Frank O., Worcester, Mass. Label-follower mechanism. No. 954,841; Apr. 12; Sp. p. 2512; Gaz. vol. 153; p. 428.
Woodland, Frank O., Worcester, Mass. Feed-controlling means for labeling-machines. No. 974,326; Nov. 1; Sp. p. 573; Gaz. vol. 160; p. 84.
Woodley, Alfred, assignor to Universal Electric Economy Company, Limited, Montreal, Canada. Resilient lamp-support. No. 957,287; May 10; Sp. p. 1713; Gaz. vol. 154; p. 300.
Woodman, David H., Salt Lake City, Utah. Ribbon-fastener and sales-index. No. 948,490; Feb. 8; Sp. p. 1501; Gaz. vol. 151; p. 265.
Woodman, David H., Salt Lake City, Utah. Ribbon-fastener and sales-index. No. 963,263; July 5; Sp. p. 608; Gaz. vol. 156; p. 84.
Woodman, George A., assignor to Kirby Equipment Company, Chicago, Ill. Journal-box. No. 956,659; May 3; Sp. p. 330; Gaz. vol. 154; p. 54.
Woodman, George A., assignor to Kirby Equipment Company, Chicago, Ill. Journal-box. No. 956,660; May 3; Sp. p. 331; Gaz. vol. 154; p. 54.
Woodman, George A., assignor to Kirby Equipment Company, Chicago, Ill. Journal-box. No. 956,661; May 3; Sp. p. 333; Gaz. vol. 154; p. 55.
Woodmancy, Fred, East Randolph, N. Y. Cattle-stanchion. No. 968,104; Aug. 23; Sp. p. 4827; Gaz. vol. 157; p. 838.
Woodmansee, Hugh H., Azusa, Cal. Fountain shaving-brush. No. 953,452; Mar. 29; Sp. p. 6188; Gaz. vol. 152; p. 1109.
Woodring, Chester, Strong City, Kans. Egg-testing device. No. 953,886; Apr. 5; Sp. p. 400; Gaz. vol. 153; p. 73.
Woodroffe, Charles S., London, H. Pearce and J. E. Billington, Broadheath, England, assignors to Linotype and Machinery Limited, London, England. Quadding apparatus of typographical composing-machines. No. 945,892; Jan. 11; Sp. p. 1972; Gaz. vol. 150; p. 329.
Woodrow, Cora E., Seattle, Wash. Egg-separator. No. 968,910; Aug. 30; Sp. p. 6558; Gaz. vol. 157; p. 1142.
Woodruff, Charles A., and G. E. McElroy, Newark, N. J. Sign-holder. No. 972,312; Oct. 11; Sp. p. 1739; Gaz. vol. 159; p. 305.
Woodruff, George H. (See Sherman, Henry R., assignor.)
Woodruff, Horace W., New Orleans, La. Portable safe for valuables. No. 965,495; July 26; Sp. p. 5379; Gaz. vol. 156; p. 921.
Woodruff, Horace W., New Orleans, La. Lock. No. 969,236; Sept. 6; Sp. p. 195; Gaz. vol. 158; p. 32.
Woodruff, Oliver D., Southington, Conn. Food-chopper. No. 953,935; Apr. 5; Sp. p. 497; Gaz. vol. 153; p. 91.
Woodruff, Willard S., Brooklyn, N. Y. Game-board. No. 971,871; Oct. 4; Sp. p. 768; Gaz. vol. 159; p. 133.
Woods Air Infuser Co., The. (See Woods, Erastus W., assignor.)
Woods, Charles D., McKeesport, Pa. Can-body-coating machine. No. 947,537; Jan. 25; Sp. p. 5662; Gaz. vol. 150; p. 941.
Woods, Charles H. (See Bone and Woods.)
Woods, Edwin S., Chicago, Ill. Side bearing for cars. (Reissue.) No. 13,181; Dec. 6; Sp. p. 1535; Gaz. vol. 161; p. 248.
Woods, Edwin S., Chicago, Ill. Antifriction-bearing for railway-cars. No. 979,119; Dec. 20; Sp. p. 3704; Gaz. vol. 161; p. 642.
Woods, Edwin S., Chicago, Ill. Antifriction-bearing. No. 979,120; Dec. 20; Sp. p. 3706; Gaz. vol. 161; p. 642.
Woods, Edwin S., Chicago, Ill. Antifriction-bearing. No. 979,727; Dec. 27; Sp. p. 4995; Gaz. vol. 161; p. 872.
Woods, Erastus W., assignor to The Woods Air Infuser Co., Chicago, Ill. Ventilator. No. 979,728; Dec. 27; Sp. p. 4997; Gaz. vol. 161; p. 872.
Woods, Frederick, Lakewood, Minn. Life-buoy. No. 969,020; Aug. 30; Sp. p. 6768; Gaz. vol. 157; p. 1179.
Woods, Frederick C., Galesburg, Ill. Combined junction and terminal box for electric wires. No. 954,842; Apr. 12; Sp. p. 2514; Gaz. vol. 153; p. 428.
Woods, Frederick H., Olean, N. Y. Retaining-valve. No. 960,133; May 31; Sp. p. 8037; Gaz. vol. 154; p. 1350.
Woods Gas Engine Company. (See Wood, James I., assignor.)
Woods, John E., and E. L. Harding, Sibley, Iowa. Loading apparatus. No. 975,917; Nov. 15; Sp. p. 4052; Gaz. vol. 160; p. 682.
Woods, John H., New York, N. Y., assignor to G. B. McCarty, Red Bank, N. J., and H. W. Greene, Yonkers, N. Y. Safety-razor. No. 947,010; Jan. 18; Sp. p. 4483; Gaz. vol. 150; p. 737.
Woods, John H., New York, N. Y., assignor to G. B. McCarty, Red Bank, N. J., and H. W. Greene, Yonkers, N. Y. Safety-razor. No. 947,209; Jan. 18; Sp. p. 4852; Gaz. vol. 150; p. 800.
Woods, Joseph M., and J. S. Maimone, Denver, Colo. Spark-plug. No. 961,057; June 7; Sp. p. 1641; Gaz. vol. 155; p. 275.
Woods, Joseph M., and J. S. Maimone, assignors to The Compression Spark Plug Company, Denver, Colo. Spark-plug. No. 961,056; June 7; Sp. p. 1639; Gaz. vol. 155; p. 274.
Woods, Leonard G., Pittsburg, Pa. Car-wheel. No. 950,500; Mar. 1; Sp. p. 87; Gaz. vol. 152; p. 14.
Woods, Leonard G., Pittsburg, Pa. Car-wheel. No. 950,501; Mar. 1; Sp. p. 90; Gaz. vol. 152; p. 15.
Woods, Leonard G., Pittsburg, Pa. Journal-box. No. 969,933; Sept. 13; Sp. p. 1700; Gaz. vol. 158; p. 293.
Woods, Martin, Memphis, Tenn. Lock-hinge. No. 945,662; Jan. 4; Sp. p. 1405; Gaz. vol. 150; p. 219.
Woods, Nelson T. (See Christofferson, Woods, and Jones.)
Woods, Patrick F., Buffalo, N. Y. Core-making machine. No. 967,479; Aug. 16; Sp. p. 3522; Gaz. vol. 157; p. 605.
Woods, Patrick W., Helena, Mont. Fastener for wagon-seats. No. 950,361; Feb. 22; Sp. p. 5454; Gaz. vol. 151; p. 956.
Woods, Robert, assignor of one-fourth to P. J. Mulloy, Grand Forks, N. D. Door. No. 974,327; Nov. 1; Sp. p. 575; Gaz. vol. 160; p. 84.
Woods, Robert S., Los Angeles, Cal. Signal system. No. 973,154; Oct. 18; Sp. p. 3628; Gaz. vol. 159; p. 624.
Woods, Stephen, Rye, N. Y. Sanitary case for toilet articles and other uses. No. 965,787; July 26; Sp. p. 6027; Gaz. vol. 156; p. 1024.
Woods, Stephen, New Rochelle, N. Y. Uniting together wires, strips, or pieces of metal. No. 965,788; July 26; Sp. p. 6028; Gaz. vol. 156; p. 1024.
Woods, William E., Griffin, Ind. Doubletree. No. 951,715; Mar. 8; Sp. p. 2518; Gaz. vol. 152; p. 438.
Woods, William E., Griffin, Ind. Tension device for harness-reins. No. 951,716; Mar. 8; Sp. p. 2519; Gaz. vol. 152; p. 438.
Woods, William E., Griffin, Ind. Wagon-brake. No. 954,238; Apr. 5; Sp. p. 1159; Gaz. vol. 153; p. 193.
Woodside, Robert G. (See Wester, Albert V., assignor.)
Woodson, Edward F. (See Steel, Alvin A., assignor.)
Woodward, Albert L., assignor to E. F. Rogers & Company, Philadelphia, Pa. Sectional wind-shield for automobiles. No. 959,188; May 24; Sp. p. 6017; Gaz. vol. 154; p. 1005.
Woodward, Albert W. (See Woodward, Percy V., assignor.)
Woodward, Amos W. (See Albertson and Woodward.)
Woodward, Benjamin W., Ipswich, Mass. Wrench. No. 952,223; Mar. 15; Sp. p. 3555; Gaz. vol. 152; p. 639.
Woodward, Erastus, Somerville, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Heel-nailing machine. No. 947,366; Jan. 25; Sp. p. 5255; Gaz. vol. 150; p. 885.
Woodward, Erastus, Somerville, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Heeling-machine. No. 958,056; May 17; Sp. p. 3471; Gaz. vol. 154; p. 594.
Woodward, Erastus, Somerville, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Sole laying and leveling machine. No. 958,057; May 17; Sp. p. 3518; Gaz. vol. 154; p. 594.
Woodward, Erastus, Somerville, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Heel-nailing machine. No. 958,058; May 17; Sp. p. 3529; Gaz. vol. 154; p. 595.

Alphabetical list of patentees—Continued.

Woodward, Erastus, Somerville, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Jack for sole laying and leveling machines. No. 966,506; Aug. 9; Sp. p. 1432; Gaz. vol. 157; p. 249.
Woodward, Frank M. (See Albertson and Woodward.)
Woodward, Harry S., St. Louis, Mo. Paper cutting and trimming machine. No. 959,674; May 31; Sp. p. 7027; Gaz. vol. 154; p. 1193.
Woodward, Oscar, New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 945,358; Jan. 4; Sp. p. 767; Gaz. vol. 150; p. 118.
Woodward, Oscar, New York, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 949,105; Feb. 15; Sp. p. 2787; Gaz. vol. 151; p. 495.
Woodward, Oscar, New York, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 978,255; Dec. 13; Sp. p. 1819; Gaz. vol. 161; p. 318.
Woodward, Oscar, Montclair, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 945,893; Jan. 11; Sp. p. 1981; Gaz. vol. 150; p. 329.
Woodward, Oscar, Montclair, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 955,489; Apr. 19; Sp. p. 3858; Gaz. vol. 153; p. 679.
Woodward, Oscar, Montclair, N. J., assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 954,843; Apr. 12; Sp. p. 2517; Gaz. vol. 153; p. 429.
Woodward, Oscar, Montclair, N. J., assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 957,288; May 10; Sp. p. 1714; Gaz. vol. 154; p. 300.
Woodward, Oscar, Montclair, N. J., assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 961,194; June 14; Sp. p. 1930; Gaz. vol. 155; p. 349.
Woodward, Oscar, Montclair, N. J., assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 963,971; July 12; Sp. p. 2094; Gaz. vol. 156; p. 342.
Woodward, Oscar, Montclair, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 971,234; Sept. 27; Sp. p. 4467; Gaz. vol. 158; p. 782.
Woodward, Oscar, Montclair, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 971,953; Oct. 4; Sp. p. 980; Gaz. vol. 159; p. 164.
Woodward, Oscar, Montclair, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 975,190; Nov. 8; Sp. p. 2530; Gaz. vol. 160; p. 409.
Woodward, Percy V., assignor of one-half to A. W. Woodward, London, Ontario, Canada. Internal-combustion engine. No. 967,097; Aug. 9; Sp. p. 2716; Gaz. vol. 157; p. 447.
Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing-machines. No. 947,210; Jan. 18; Sp. p. 4855; Gaz. vol. 150; p. 801.
Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for overseaming sewing-machines. No. 953,654; Mar. 29; Sp. p. 6614; Gaz. vol. 152; p. 1180.
Woodward, Russel G., Waukegan, assignor to Union Special Sewing Machine Co., Chicago, Ill. Trimming mechanism for sewing-machines. No. 976,023; Nov. 15; Sp. p. 4239; Gaz. vol. 160; p. 719.
Woodward, William D., West Chazy, assignor of one-fourth to A. L. Clair, three-sixteenths to L. P. Clair, and three-sixteenths to A. B. Clair, Springville, N. Y. Switch. No. 946,750; Jan. 18; Sp. p. 3879; Gaz. vol. 150; p. 647.
Woodward, William M. (See Chapman, Samuel E., assignor.)
Woodworth, Dallas C., Chicago, Ill. Mechanical movement. No. 946,188; Jan. 11; Sp. p. 2596; Gaz. vol. 150; p. 431.
Woodworth, Dallas C., Chicago, Ill. Motion-picture apparatus. No. 959,675; May 31; Sp. p. 7028; Gaz. vol. 154; p. 1194.
Woodworth, Robert B., Pittsburg, Pa. Driving-cap for sheet-piling. No. 956,015; Apr. 26; Sp. p. 5035; Gaz. vol. 153; p. 890.
Woodworth, Robert B., Pittsburg, Pa. Portable derrick. No. 960,474; June 7; Sp. p. 465; Gaz. vol. 155; p. 79.
Wool, Morris. (See Salls and Wool.)
Woolard, Josephus L., Williamston, N. C. Cultivator. No. 962,806; June 28; Sp. p. 5425; Gaz. vol. 155; p. 947.
Wooldridge, William J., Schenectady, N. Y. Private mailing-card. No. 961,829; June 21; Sp. p. 3300; Gaz. vol. 155; p. 588.
Woolf, Ellis J. (See Woolf, Jay F., assignor.)
Woolf, Frank H., Indianapolis, Ind., assignor to Racine Engine & Machinery Co., Racine, Wis. Candy-machine. No. 971,097; Sept. 27; Sp. p. 4173; Gaz. vol. 158; p. 736.
Woolf, Jay F., assignor of one-half to E. J. Woolf, Minneapolis, Minn. Explosive-engine. No. 959,905; May 31; Sp. p. 7521; Gaz. vol. 154; p. 1271.
Woolf, Jay F., assignor of one-half to E. J. Woolf, Minneapolis, Minn. Explosive-engine. No. 965,975; Aug. 2; Sp. p. 270; Gaz. vol. 157; p. 45.
Woolf, Jay F., assignor of one-half to E. J. Woolf, Minneapolis, Minn. Explosive-engine. No. 968,725; Aug. 30; Sp. p. 6180; Gaz. vol. 157; p. 1080.
Wooll, John H., San Francisco, Cal. Electric switch. No. 976,422; Nov. 22; Sp. p. 5182; Gaz. vol. 160; p. 880.
Woollett, George W., Pittsburg, Pa. Folding umbrella. No. 973,155; Oct. 18; Sp. p. 3632; Gaz. vol. 159; p. 625.
Woolley, Claude L., assignor of one-half to R. L. Brooks, Baltimore, Md. Needle-threader. No. 959,676; May 31; Sp. p. 7031; Gaz. vol. 154; p. 1194.
Woolnough, Charles, and G. F. Wheeler, Montreal, Quebec, Canada. Sectional sprocket-wheel. No. 969,237; Sept. 6; Sp. p. 197; Gaz. vol. 158; p. 32.
Woolsey, James P. (See Brock, Edward E., assignor.)
Woolston, John T., Towcester, assignor to O. V. Forbes, London, England. Boot and shoe construction. No. 974,732; Nov. 1; Sp. p. 1477; Gaz. vol. 160; p. 228.
Woonsocket Machine and Press Company. (See Campbell, Malcolm, assignor.)
Woonsocket Shuttle Co. (See Johnston, John, assignor.)
Wooster, Philip L., Yonkers, N. Y. Hose. No. 956,506; Apr. 26; Sp. p. 6117; Gaz. vol. 153; p. 1059.
Wooten, Earl B. (See Hartig and Wooten.)
Wootten, Charles T., and A. P. Richardson, Philadelphia, Pa.; said Wootten assignor to said Richardson. Sheet-metal box. No. 948,122; Feb. 1; Sp. p. 709; Gaz. vol. 151; p. 116.
Worcester, Albert, New York, N. Y. Paper-cutting shears. No. 958,455; May 17; Sp. p. 4480; Gaz. vol. 154; p. 733.
Worcester Brush & Scraper Company. (See Bemis, Gilbert C., assignor.)
Worden, Elizabeth M., Sibley, Iowa. Attachment for washboilers. No. 950,711; Mar. 1; Sp. p. 546; Gaz. vol. 152; p. 86.
Workman Manufacturing Company. (See Perrine, John B., assignor.)
Workman, Noah W. (See Workman, Robert J., assignor.)
Workman, Robert J., assignor of one-third to N. W. Workman, San Francisco, Cal. Measuring and filling machine. No. 961,741; June 14; Sp. p. 3094; Gaz. vol. 155; p. 535.
Worley, Henry E., Redlands, Cal. Irrigating-pipe gate. No. 969,320; Sept. 6; Sp. p. 354; Gaz. vol. 158; p. 58.
Worley, Matt H., Redlands, Cal. Flume-gate. No. 952,658; Mar. 22; Sp. p. 4484; Gaz. vol. 152; p. 816.
Worley, Matt H., Redlands, Cal. Flume-gate. No. 973,606; Oct. 25; Sp. p. 4610; Gaz. vol. 159; p. 802.
Wormeley, Philip L., Washington, D. C. Valve-controlling mechanism. No. 951,168; Mar. 8; Sp. p. 1424; Gaz. vol. 152; p. 258.
Worne, Leonard H., Philadelphia, Pa. Connection for storage batteries and the like. No. 978,978; Dec. 20; Sp. p. 3369; Gaz. vol. 161; p. 592.
Worrall, Ulysses G., Philadelphia, Pa. Glass and cup washing apparatus. No. 974,944; Nov. 8; Sp. p. 1967; Gaz. vol. 160; p. 324.
Worrell, James K., Humble, Tex. Watchcase. No. 969,680; Sept. 6; Sp. p. 1122; Gaz. vol. 158; p. 181.
Worrell, John E., Jeffersonville, Ind. Cartridge-adapter. No. 967,098; Aug. 9; Sp. p. 2719; Gaz. vol. 157; p. 447.
Worrest, Alfred H., Lancaster, Pa., assignor to Metal Stamping Company, New York, N. Y. Thill-coupling. No. 952,025; Mar. 15; Sp. p. 3185; Gaz. vol. 152; p. 572.
Worsey, Charles H., Lynn, Mass., assignor to General Electric Company. Governing mechanism for turbines. No. 963,107; July 5; Sp. p. 220; Gaz. vol. 156; p. 29.
Worsley, Otto G., Bangor, Mich. Vehicle-wheel. No. 977,846; Dec. 6; Sp. p. 922; Gaz. vol. 161; p. 146.
Worstall, George G., Toms River, N. J. Ring-gage. No. 947,879; Feb. 1; Sp. p. 223; Gaz. vol. 151; p. 36.
Wort, D. (See Minton, John S., assignor.)
Worth, James M., Evansville, Ind. Change-speed transmission-gear. No. 945,070; Jan. 4; Sp. p. 134; Gaz. vol. 150; p. 23.
Worth, John S., assignor of one-half to W. P. Worth, Coatesville, Pa. Tube-mill. No. 946,303; Jan. 11; Sp. p. 2851; Gaz. vol. 150; p. 473.
Worth-Martin Co., The. (See Martin, Louis L., assignor.)
Worth, William E., Wilmington, N. C., assignor to United State Cotton Seed Oil Company, Portland, Me. Cotton-seed-delinting machine. No. 958,456; May 17; Sp. p. 4482; Gaz. vol. 154; p. 733.
Worth, William P. (See Worth, John S., assignor.)
Worthen, Burt L., Tucson, Ariz. Automatic dumping-car. No. 974,009; Oct. 25; Sp. p. 5447; Gaz. vol. 159; p. 944.
Worthen, Burt L., Tucson, Ariz., assignor of one-half to T. Donohoe, Avella, Pa. Car wheel and axle. No. 945,894; Jan. 11; Sp. p. 1987; Gaz. vol. 150; p. 330.
Worthen, Burt L., Tucson, Ariz., assignor to The Kemp Hydro-Carbon Furnace Company. Hydrocarbon-burner. No. 958,789; May 24; Sp. p. 5165; Gaz. vol. 154; p. 870.
Worthen, Burt L., assignor of one-half to M. P. Freeman, Tucson, Ariz. Furnace. No. 977,249; Nov. 29; Sp. p. 7002; Gaz. vol. 160; p. 1190.
Worthington, Alexander M., Duluth, and S. J. Raetz and J. W. Kreitter, Proctor, Minn. Car-door lock. No. 978,528; Dec. 13; Sp. p. 2397; Gaz. vol. 161; p. 413.

Worthington, Blaine, Scotland, Pa. Hydraulic jack. No. 971,714; Oct. 4; Sp. p. 423; Gaz. vol. 159; p. 74.
Worthington, Bruce, Baltimore, Md. Window-screen. No. 956,017; Apr. 26; Sp. p. 5039; Gaz. vol. 153; p. 891.
Worthington, Charles, New York, N. Y. Building-frame. No. 946,189; Jan. 11; Sp. p. 2598; Gaz. vol. 150; p. 431.
Worthington, George C., Elyria, Ohio. Golf-ball. No. 972,313; Oct. 11; Sp. p. 1740; Gaz. vol. 159; p. 306.
Worton, George, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Automatic feeding mechanism for machine-tools. No. 951,169; Mar. 8; Sp. p. 1427; Gaz. vol. 152; p. 259.
Worwood, William, Belgrade, Mont. Railway-track construction. No. 951,039; Mar. 1; Sp. p. 1172; Gaz. vol. 152; p. 192.
Worzalla, John S. (See Klimowicz and Worzalla.)
Worzen, Anton A., South Brownsville, Pa. Locomotive-sander. No. 968,305; Aug. 23; Sp. p. 5267; Gaz. vol. 157; p. 907.
Wosinski, Frank, Brooklyn, N. Y. Hand-stamp machine. No. 963,972; July 12; Sp. p. 2096; Gaz. vol. 156; p. 343.
Wouters, Alfred H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Shaft-oscillator. No. 957,289; May 10; Sp. p. 1719; Gaz. vol. 154; p. 300.
Wouters, Alfred H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Inclosed dynamo-electric machine. No. 977,250; Nov. 29; Sp. p. 7004; Gaz. vol. 160; p. 1191.
Woydziak, John P., Dorrance, Kans. Windmill. No. 949,312; Feb. 15; Sp. p. 3204; Gaz. vol. 151; p. 565.
Wrampelmeier, Theodore J., Berkeley, Cal. Catalytic and making same. No. 948,947; Feb. 8; Sp. p. 2449; Gaz. vol. 151; p. 417.
Wray, Edward H. (See Hagman and Wray.)
Wray, Edward H., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Forging press and hammer. No. 959,094; May 24; Sp. p. 5821; Gaz. vol. 154; p. 975.
Wray, George W., El Reno, Okla. Window-shade holder. No. 972,972; Oct. 18; Sp. p. 3233; Gaz. vol. 159; p. 562.
Wray, Horace E., Ukiah, Cal. Running-gear for motor-vehicles. No. 967,698; Aug. 16; Sp. p. 3946; Gaz. vol. 157; p. 677.
Wray, James L., Kewanee, Ill. Water-elevator. No. 955,301; Apr. 19; Sp. p. 3464; Gaz. vol. 153; p. 615.
Wray Manufacturing Company. (See Falwell, Wray, assignor.)
Wray, Park Q., assignor to Acorn Brass Manufacturing Company, Chicago, Ill. Hydrocarbon incandescent lamp. No. 955,571; Apr. 19; Sp. p. 4028; Gaz. vol. 153; p. 707.
Wren, Patrick J., and F. T. Comee, Woonsocket, R. I. Apparatus for vulcanizing rubber boots and shoes. No. 975,309; Nov. 8; Sp. p. 2782; Gaz. vol. 160; p. 450.
Wrenn, Manleff J., High Point, N. C. Folding display stand or case. No. 975,096; Nov. 8; Sp. p. 2297; Gaz. vol. 160; p. 376.
Wright, Arthur C., assignor to The Hopkins & Allen Arms Company, Norwich, Conn. Firearm. No. 968,019; Aug. 23; Sp. p. 4634; Gaz. vol. 157; p. 809.
Wright, Benjamin N., Seattle, Wash. Pump. No. 971,652; Oct. 4; Sp. p. 298; Gaz. vol. 159; p. 53.
Wright, Charles, Hominy, Okla. Register. No. 964,356; July 12; Sp. p. 2869; Gaz. vol. 156; p. 474.
Wright, Charles, Youngwood, Pa., assignor to The Wright Specialty Mfg. Co. Gage-cock. No. 978,256; Dec. 13; Sp. p. 1824; Gaz. vol. 161; p. 319.
Wright, Charles D., Chicago, Ill. Oil-burner. No. 967,595; Aug. 16; Sp. p. 3753; Gaz. vol. 157; p. 645.
Wright, Charles M., Anderson, Ind. Cheese-cutter. No. 954,662; Apr. 12; Sp. p. 2079; Gaz. vol. 153; p. 365.
Wright, Charles O., Bluefield, W. Va. Shipping-case. No. 973,607; Oct. 25; Sp. p. 4612; Gaz. vol. 159; p. 802.
Wright, Clement G., Greensboro, N. C. Tire-armor. No. 947,141; Jan. 18; Sp. p. 4702; Gaz. vol. 150; p. 777.
Wright, Curtis, Jr., Berkeley, Cal. Wire-coiling machine. No. 963,197; July 5; Sp. p. 429; Gaz. vol. 156; p. 61.
Wright, Edward C., *et al.* (See Fongeallaz, Eugene, assignor.)
Wright, Edward E., *et al.* (See Simon, Henry, assignor.)
Wright, Edward H., Olean, N. Y. Barrel-washing machine. No. 966,507; Aug. 9; Sp. p. 1441; Gaz. vol. 157; p. 249.
Wright, Edward L., *et al.* (See Wells, Eugene C., assignor.)
Wright, Edwin C., Newport, Ky., assignor to The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 949,106; Feb. 15; Sp. p. 2795; Gaz. vol. 151; p. 495.
Wright, Edwin C., Newport, Ky., assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Direct-current turbo-generator. No. 957,290; May 10; Sp. p. 1722; Gaz. vol. 154; p. 301.
Wright, Elmer T., *et al.* (See Royal, William G., assignor.)
Wright, Ernest, Pinner, England. Machine for decorticating the fibrous leaves or stems of plants. No. 960,134; May 31; Sp. p. 8039; Gaz. vol. 154; p. 1350.
Wright, Francis H., Los Angeles, Cal. Floor-surfacing machine. No. 976,716; Nov. 22; Sp. p. 5784; Gaz. vol. 160; p. 979.
Wright, Francis M., *et al.* (See Clarke, George W., assignor.)
Wright, Frank A. R., Cleveland, Ohio. Preparation of secondary-battery plates. No. 956,919; May 3; Sp. p. 913; Gaz. vol. 154; p. 144.
Wright, Frank G., Indiana Harbor, Ind., assignor to American Steel Foundries, Chicago, Ill. Introducing modifying elements into castings. No. 963,973; July 12; Sp. p. 2098; Gaz. vol. 156; p. 343.
Wright, Frederick, and J. Walmsley, Toronto, Ontario, Canada. Floor-sleeper anchoring and spacing device for concrete. No. 979,628; Dec. 27; Sp. p. 4775; Gaz. vol. 161; p. 839.
Wright, Frederick K., Syracuse, N. Y. Bail for lanterns, &c. No. 975,817; Nov. 15; Sp. p. 3842; Gaz. vol. 160; p. 647.
Wright, G. A., *et al.* (See Baughn, Samuel C., assignor.)
Wright, George A., Chicago, Ill. Built-up lumber-sheet. No. 947,508; Jan. 25; Sp. p. 5611; Gaz. vol. 150; p. 932.
Wright, George E., Aberdeen, Md. Scalding and washing vegetables. No. 969,238; Sept. 6; Sp. p. 198; Gaz. vol. 158; p. 32.
Wright, George W. (See Krips and Wright.)
Wright, Gilbert, Schenectady, N. Y., assignor to General Electric Company. Automatic timer. No. 952,166; Mar. 15; Sp. p. 3439; Gaz. vol. 152; p. 619.
Wright, Gilbert, Schenectady, N. Y., assignor to General Electric Company. Insulated joint. No. 963,846; July 12; Sp. p. 1840; Gaz. vol. 156; p. 303.
Wright, Hebden. (See Wright, James and H.)
Wright, Henry C., assignor to The Bristol Brass Company, Bristol, Conn. Vapor-lamp. No. 960,475; June 7; Sp. p. 466; Gaz. vol. 155; p. 79.
Wright, Henry F., Philadelphia, Pa. Game apparatus. No. 959,985; May 31; Sp. p. 7717; Gaz. vol. 154; p. 1300.
Wright, Ira O., Baltimore, Md., assignor to The Farlow Draft Gear Co. Buffer-block, centering device, and carry-iron for car-couplings. No. 952,696; Mar. 22; Sp. p. 4558; Gaz. vol. 152; p. 828.
Wright, J. Kent, *et al.* (See Collins, Wilbur L., assignor.)
Wright, Jacob P., Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y. Machine for forming packages. No. 966,508; Aug. 9; Sp. p. 1446; Gaz. vol. 157; p. 249.
Wright, James, Hamilton, Ontario, Canada. Railway-lantern. No. 977,251; Nov. 29; Sp. p. 7006; Gaz. vol. 160; p. 1191.
Wright, James and H., Ingrow, near Keighley, England. Warp stop mechanism for looms. No. 978,345; Dec. 13; Sp. p. 2013; Gaz. vol. 161; p. 350.
Wright, James E. (See Cole and Wright.)
Wright, James E., Bay City, Mich. Automatic railway-switch. No. 950,254; Feb. 22; Sp. p. 5258; Gaz. vol. 151; p. 922.
Wright, James E., assignor of one-half to J. M. Kelton, Bay City, Mich. Metal hoop. No. 972,973; Oct. 18; Sp. p. 3234; Gaz. vol. 159; p. 562.
Wright, James F., Canton, Ohio. Pipe-wrench. No. 949,107; Feb. 15; Sp. p. 2798; Gaz. vol. 151; p. 495.
Wright, Jesse, Wapella, Ill. Wire-stretcher. No. 949,458; Feb. 15; Sp. p. 3517; Gaz. vol. 151; p. 614.
Wright, Jessie. (See Wright, Katherine and J.)
Wright, John A., Brownsville, Pa. Vehicle-tire. No. 960,135; May 31; Sp. p. 8042; Gaz. vol. 154; p. 1351.
Wright, John B. (See Simpson, John T., assignor.)
Wright, John B., Greensboro, N. C. Safety attachment for car-brakes. No. 947,142; Jan. 18; Sp. p. 4703; Gaz. vol. 150; p. 777.
Wright, John B., Greensboro, N. C. Safety attachment for car-brakes. No. 978,979; Dec. 20; Sp. p. 3370; Gaz. vol. 161; p. 592.
Wright, John E., New York, N. Y. Printing-telegraph. No. 954,489; Apr. 12; Sp. p. 1686; Gaz. vol. 153; p. 305.
Wright, John E., Chicago, Ill. Drag. No. 970,155; Sept. 13; Sp. p. 2156; Gaz. vol. 158; p. 367.
Wright, Joseph, Frodsham, England. Hinge. No. 975,097; Nov. 8; Sp. p. 2299; Gaz. vol. 160; p. 376.
Wright, Joseph H., assignor of one-fourth to T. G. Dean, North Fort Worth, Tex. Electric switch. No. 966,286; Aug. 2; Sp. p. 941; Gaz. vol. 157; p. 149.
Wright, Joseph L., Washington, D. C., assignor, by mesne assignments, to The North Electric Company, Cleveland, Ohio. Telephone-exchange system. No. 965,976; Aug. 2; Sp. p. 272; Gaz. vol. 157; p. 46.
Wright, Katherine and J., Kew, England. Picture and like mount. No. 952,292; Mar. 15; Sp. p. 3702; Gaz. vol. 152; p. 662.
Wright, Lysander E., Newark, N. J. Internal-combustion engine. No. 977,847; Dec. 6; Sp. p. 923; Gaz. vol. 161; p. 146.
Wright, Maurice E., San Diego, Cal. Toy parachute. No. 974,733; Nov. 1; Sp. p. 1479; Gaz. vol. 160; p. 228.
Wright, Mollie J. and W. L., Dunlap, Kans. Oil-burner. No. 970,156; Sept. 13; Sp. p. 2158; Gaz. vol. 158; p. 368.
Wright, Norman A., assignor to Champion Manufacturing Company, Pontiac, Mich. Automatic cut-out. No. 971,872; Oct. 4; Sp. p. 769; Gaz. vol. 159; p. 133.
Wright, Richard H. (See Bracy, Edward L., assignor.)
Wright, Robert E., Dalton, Ga. Pea-thresher. No. 978,529; Dec. 13; Sp. p. 2399; Gaz. vol. 161; p. 413.

Alphabetical list of patentees—Continued.

Wright, Roscoe J. (See Day, Harry N., assignor.)
Wright, Sam F., Anna, Tex. Putty-trowel. No. 967,480; Aug. 16; Sp. p. 3527; Gaz. vol. 157; p. 606.
Wright, Samuel, assignor of two-thirds to J. Sidney, Owen Sound, Ontario, Canada. Hoisting device. No. 959,677; May 31; Sp. p. 7032; Gaz. vol. 154; p. 1194.
Wright, Sigmund W., Philipsburg, Pa. Cup. No. 979,629; Dec. 27; Sp. p. 4776; Gaz. vol. 161; p. 839.
Wright, Solomon A., Buckman, assignor of one-eighth to S. H. Davis, Santa Fe, N. Mex. Metallic railway-tie. No. 969,681; Sept. 6; Sp. p. 1123; Gaz. vol. 158; p. 181.
Wright Specialty Mfg. Co., The. (See Wright, Charles, assignor.)
Wright, Thomas, Jersey City, N. J. Self-sustaining electric and hand power elevator. No. 955,932; Apr. 26; Sp. p. 4861; Gaz. vol. 153; p. 860.
Wright, Thomas, Jersey City, N. J. Pressure-generator. No. 956,465; Apr. 26; Sp. p. 6020; Gaz. vol. 153; p. 1045.
Wright, Thomas W., Leith, Scotland. Album for holding disk records. No. 958,059; May 17; Sp. p. 3532; Gaz. vol. 154; p. 595.
Wright, W. P., *et al.* (See Hurt, Ambrose P., assignor.)
Wright, Wilbur L., Washington, D. C. Closing-disk. No. 959,095; May 24; Sp. p. 5823; Gaz. vol. 154; p. 976.
Wright, Will, *et al.* (See Eaton, Robert E., assignor.)
Wright, William. (See Cartwright, George, assignor.)
Wright, William, Adamsville, assignor of one-third to M. F. Webb and one-third to E. Wald, Birmingham, Ala. Air-compressor. No. 963,676; July 5; Sp. p. 1418; Gaz. vol. 156; p. 222.
Wright, William H., and E. A. Powell, Findlay, Ohio. Game-board. No. 975,009; Nov. 8; Sp. p. 2126; Gaz. vol. 160; p. 346.
Wright, William H., and J. Hoffman, Schenectady, N. Y., assignors to General Electric Company. Refractory waterproof insulating compound. No. 956,870; May 3; Sp. p. 807; Gaz. vol. 154; p. 128.
Wright, William J., Franklin, Pa. Explosive-engine. No. 974,455; Nov. 1; Sp. p. 875; Gaz. vol. 160; p. 128.
Wright, William L. (See Wright, Mollie J. and W. L.)
Wright, Wilson D. C. (See Smith, James M., assignor.)
Wright Wire Company. (See Barlow, Arthur E., assignor.)
Wright Wire Company. (See Martin, Frank, assignor.)
Wrinkle, Noah, and R. G. Paddock, San Francisco, Cal., assignors to Natural Soda Products Company. Refining urao. No. 959,678; May 31; Sp. p. 7033; Gaz. vol. 154; p. 1194.
Wrozina, Ignatz, West Haven, Conn. Piano-action. No. 979,729; Dec. 27; Sp. p. 4999; Gaz. vol. 161; p. 872.
Wuebbenhorst, John. (See Weerts and Wuebbenhorst.)
Wuelser, Gottlieb, New Kensington, Pa. Lock for switches. No. 975,918; Nov. 15; Sp. p. 4054; Gaz. vol. 160; p. 683.
Wuerffel, Herman L., Maywood, assignor to Western Electric Company, Chicago, Ill. Telephone signal-bell. No. 955,302; Apr. 19; Sp. p. 3465; Gaz. vol. 153; p. 615.
Wuerth, Frederick W., Cincinnati, Ohio. Attachment for aeroplanes. No. 961,925; June 21; Sp. p. 3506; Gaz. vol. 155; p. 619.
Wuest, Frederick A., assignor to G. H. Bishop & Co., Lawrenceburg, Ind. Saw-clamp. No. 961,665; June 14; Sp. p. 2943; Gaz. vol. 155; p. 509.
Wuest, Philip, Jr., assignor to O. Blasius, Philadelphia, Pa. Expression mechanism for self-playing pianos. No. 965,354; July 26; Sp. p. 5090; Gaz. vol. 156; p. 874.
Wuhrmann, Ernest H. (See Rumble, Alexander C., assignor.)
Wuichet, William T. (See Altick and Wuichet.)
Wulf, Charles A., Indianapolis, Ind. Flushing-valve. No. 966,509; Aug. 9; Sp. p. 1459; Gaz. vol. 157; p. 250.
Wulfeck, Walter R., Cincinnati, Ohio. Gas-burner. No. 969,021; Aug. 30; Sp. p. 6771; Gaz. vol. 157; p. 1179.
Wulff, Hans. (See Prinavesi, Frank J., assignor.)
Wulff, Herman A., St. Paul, Minn. Penholder. No. 975,191; Nov. 8; Sp. p. 2540; Gaz. vol. 160; p. 409.
Wullschleger, Philip F., University Place, Nebr. Heating system. No. 971,336; Sept. 27; Sp. p. 4654; Gaz. vol. 158; p. 814.
Wunch, Edward W., Buffalo, N. Y. Transfer-slip. No. 946,650; Jan. 18; Sp. p. 3661; Gaz. vol. 150; p. 614.
Wunder, George E., Melvin, assignor to Independent Harvester Company, Plano, Ill. Wagon-dumping apparatus. No. 947,318; Jan. 25; Sp. p. 5141; Gaz. vol. 150; p. 868.
Wunder, George E., Melvin, assignor to Independent Harvester Company, Plano, Ill. Portable elevator. No. 959,679; May 31; Sp. p. 7035; Gaz. vol. 154; p. 1195.
Wunder, John. (See Cowles, William P., assignor.)
Wunder, Otto, Ellicott City, Md. Raking mechanism for dams or other water-channels. No. 960,613; June 7; Sp. p. 759; Gaz. vol. 155; p. 126.
Wunderle, Philip. (See Rice, Walter H., assignor.)
Wunderlich, Alfred, Brussels, Belgium. Motor flying-machine. No. 952,167; Mar. 15; Sp. p. 3441; Gaz. vol. 152; p. 619.
Wunderlich, Alfred, Brussels, Belgium. Motor flying-machine. No. 960,136; May 31; Sp. p. 8043; Gaz. vol. 154; p. 1351.
Wunderlich, Edward. (See Schmidt, Charles, assignor.)
Wunderlich, Mario J., Guatemala, Guatemala. Apparatus for administering anesthetics. No. 968,306; Aug. 23; Sp. p. 5269; Gaz. vol. 157; p. 908.
Wurster, Casimir, Berlin, Germany. Machine for kneading and grinding paper-making materials. No. 958,901; May 24; Sp. p. 5439; Gaz. vol. 154; p. 911.
Wurts, Alexander J., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lightning-arrester. No. 974,223; Nov. 1; Sp. p. 265; Gaz. vol. 160; p. 44.
Wurtz, Henry, Newark, N. J., assignor to American Chemical Eduction Company. Recovery of the paraffin ingredients from cannel-coals and other similarly-constituted bituminous materials without change in their chemical composition. No. 977,992; Dec. 6; Sp. p. 1225; Gaz. vol. 161; p. 197.
Wüst, Wilhelm A., assignor to Moenus Machine Works, Ltd., Frankfort-on-the-Main, Germany. Machine for dressing or otherwise operating upon skins, hides, or the like. No. 953,936; Apr. 5; Sp. p. 499; Gaz. vol. 153; p. 91.
Wüst, Wilhelm A., assignor to Moenus Machine Works, Ltd., Frankfort-on-the-Main, Germany. Machine for treating hides, skins, or leather. No. 953,937; Apr. 5; Sp. p. 502; Gaz. vol. 153; p. 91.
Wyant, Joseph E., Omaha, Nebr. Corer. No. 959,189; May 24; Sp. p. 6021; Gaz. vol. 154; p. 1006.
Wyatt, Charles G., St. Joseph, Mo. Form for paper-box-covering machines. No. 972,974; Oct. 18; Sp. p. 3236; Gaz. vol. 159; p. 562.
Wyatt, Frank, assignor to The F. Wyatt Manufacturing Company, Salina, Kans. Hay-stacker. No. 952,490; Mar. 22; Sp. p. 4110; Gaz. vol. 152; p. 757.
Wyatt, Frank, assignor to The F. Wyatt Manufacturing Company, Salina, Kans. Stacker. No. 956,840; May 3; Sp. p. 740; Gaz. vol. 154; p. 117.
Wyckoff, Seamans & Benedict. (See Berry, Edgar H., assignor.)
Wyckoff, Seamans & Benedict. (See Dunham, William G., assignor.)
Wyckoff, Seamans & Benedict. (See Hewitt, Allin W., assignor.)
Wyckoff, Seamans & Benedict. (See Higham, Harry W., assignor.)
Wyckoff, Seamans & Benedict. (See Parmly, Eleazar, Jr., assignor.)
Wyckoff, Seamans & Benedict. (See Roche, William J., assignor.)
Wyckoff, Seamans & Benedict. (See Shepard, Charles H., assignor.)
Wyckoff, Seamans & Benedict. (See Walker, Charles W., assignor.)
Wyckoff, Seamans & Benedict. (See Woodward, Oscar, assignor.)
Wyckoff, Seamans & Benedict. (See Yaw, Clio B., assignor.)
Wygant, Lewis B., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Condenser for hay-presses, &c. No. 957,291; May 10; Sp. p. 1724; Gaz. vol. 154; p. 301.
Wygant, Lewis B., assignor to The Ohio Cultivator Company. Bellevue, Ohio. Feeder for hay-presses. No. 966,635; Aug. 9; Sp. p. 1715; Gaz. vol. 157; p. 292.
Wygodsky, Leon, New York, N. Y. Liquid-fuel internal-combustion engine. No. 971,954; Oct. 4; Sp. p. 985; Gaz. vol. 159; p. 165.
Wylde, Ellen J. (See Fox, Rosalie A. W., assignor.)
Wylie, Abraham P., Lawrenceburg, Tenn. Swing-saw. No. 969,505; Sept. 6; Sp. p. 749; Gaz. vol. 158; p. 118.
Wylie, Hamilton N., Edinburgh, Scotland. Jib-crane. No. 970,773; Sept. 20; Sp. p. 3512; Gaz. vol. 158; p. 601.
Wylie, Thomas B., Osborne, Pa. Dry gas-meter. No. 954,239; Apr. 5; Sp. p. 1161; Gaz. vol. 153; p. 104.
Wyman, Charles A., assignor of one-half to W. C. Emmerson, Gaston, Oreg. Animal-trap. No. 975,098; Nov. 8; Sp. p. 2301; Gaz. vol. 160; p. 377.
Wyman, Charles E., Pekin, Ind. Transmission-gearing. No. 965,977; Aug. 2; Sp. p. 281; Gaz. vol. 157; p. 46.
Wyman, Horace, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 948,568; Feb. 8; Sp. p. 1664; Gaz. vol. 151; p. 290.
Wyman, Horace, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Cam mechanism. No. 957,724; May 10; Sp. p. 2591; Gaz. vol. 154; p. 448.
Wyman, Horace, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing mechanism for weft-replenishing looms. No. 970,591; Sept. 20; Sp. p. 3078; Gaz. vol. 158; p. 537.
Wyman, Orrin J., Clyde, Ohio. Farm-gate. No. 950,526; Mar. 1; Sp. p. 141; Gaz. vol. 152; p. 23.
Wyman, William H., Oshkosh, Wis. Machine for making briquets. No. 953,655; Mar. 29; Sp. p. 6615; Gaz. vol. 152; p. 1181.
Wyman, William H., Oshkosh, assignor to J. G. Seelig, Ripon, Wis. Washing-machine. No. 957,024; May 3; Sp. p. 1140; Gaz. vol. 154; p. 180.
Wynberg, Abraham and S., Amsterdam, Netherlands. Apparatus for treating sugar-cane. No. 958,790; May 24; Sp. p. 5170; Gaz. vol. 154; p. 870.
Wynberg, Simon. (See Wynberg, Abraham and S.)
Wynder, Enous. (See Wynder, George, assignor.)
Wynder, George, assignor of one-third to E. Wynder, Pensacola, Fla. Ironing-board. No. 950,087; Feb. 22; Sp. p. 4913; Gaz. vol. 151; p. 864.

Alphabetical list of patentees—Continued.

Wynder, George, assignor of one-third to P. Mills and one-third to P. Richburge, Pensacola, Fla. Ironing-board. No. 965,548; July 26; Sp. p. 5530; Gaz. vol. 156; p. 941.
Wynn, Isaac. (See Cameron and Wynn.)
Wynn, Robert E., Brownsburg, assignor to himself and J. W. Hayden, Indianapolis, Ind. Carbureter. No. 964,831; July 19; Sp. p. 4003; Gaz. vol. 156; p. 666.
Wynn, Robert E., Brownsburg, assignor of two-sixths to C. D. Rodebaugh, two-sixths to J. H. Kelly, and one-sixth to G. Graves, Indianapolis, Ind. Automobile transmission gearing. No. 955,244; Apr. 19; Sp. p. 3346; Gaz. vol. 153; p. 597.
Wynne-Jones, Emily A., Ilford, England. Educational toy. No. 968,513; Aug. 23; Sp. p. 5693; Gaz. vol. 157; p. 980.
Wynne, Milton P., and S. L. Wagley, Fort Worth, Tex. Apparatus for manufacturing heating and illuminating gas. No. 964,832; July 19; Sp. p. 4005; Gaz. vol. 156; p. 667.
Wynne, W. B., *et al.* (See Morris and Watkins, assignors.)
Wysong, Olmedo C., Greensboro, N. C. Abrasive apparatus. No. 968,726; Aug. 30; Sp. p. 6183; Gaz. vol. 157; p. 1080.
Wyss, Adolph, Brandsville, Mo. Folding shipping-crate. No. 946,419; Jan. 11; Sp. p. 3186; Gaz. vol. 150; p. 512.
Wyss, John, Johnstown, Colo. Mill or machine for grinding or reducing alfalfa to meal. No. 962,543; June 28; Sp. p. 4872; Gaz. vol. 155; p. 856.
Xicovich, Victor, Seattle, Wash. Bottle attachment. No. 956,466; Apr. 26; Sp. p. 6021; Gaz. vol. 153; p. 1045.
Y. & B. Manufacturing Company. (See Young, Elmer I., assignor.)
Yale, George C., Boynton, Okla. Crude-oil burner. No. 975,740; Nov. 15; Sp. p. 3691; Gaz. vol. 160; p. 622.
Yale & Towne Manufacturing Company, The. (See Augenbraun, Peter F., assignor.)
Yale & Towne Manufacturing Company, The. (See Berry, Charles A., assignor.)
Yale & Towne Manufacturing Company, The. (See Bishop, Charles B., assignor.)
Yale & Towne Manufacturing Company, The. (See Bock, Alfred, assignor.)
Yale & Towne Manufacturing Company, The. (See Clermont, John B., assignor.)
Yale & Towne Manufacturing Company, The. (See Jones, Ellis H., assignor.)
Yale & Towne Manufacturing Company, The. (See Lawrence, Alfred, assignor.)
Yale & Towne Manufacturing Company, The. (See Miller, Charles A., assignor.)
Yale & Towne Manufacturing Company, The. (See Regan, Joseph, assignor.)
Yale & Towne Manufacturing Company, The. (See Taylor, Warren H., assignor.)
Yamashita, Tetsuji, Los Angeles, Cal. Siphon cream-separator. No. 967,099; Aug. 9; Sp. p. 2720; Gaz. vol. 157; p. 448.
Yandoli, Antonio, New York, N. Y. Shoe. No. 968,020; Aug. 23; Sp. p. 4636; Gaz. vol. 157; p. 809.
Yankee, Anton A. (See Brasson and Yankee.)
Yantis, James A., *et al.* (See England, Arthur E., assignor.)
Yarborough, Charles M., Savannah, Ga. Fireplace fender and screen. No. 976,767; Nov. 22; Sp. p. 5908; Gaz. vol. 160; p. 997.
Yard, David S., Olean, N. Y. Machine for capping milk-bottles. No. 959,038; May 24; Sp. p. 5690; Gaz. vol. 154; p. 956.
Yarnall, David R., Philadelphia, Pa. Inclined rotary digester and extractor. No. 952,224; Mar. 15; Sp. p. 3556; Gaz. vol. 152; p. 639.
Yarrow and Company (Bolton). (See Yarrow, Matthew, assignor.)
Yarrow, Matthew, Smithills, assignor to Yarrow and Company (Bolton) Limited, Bolton, England. Machine for the manufacture of earthenware pipes. No. 953,887; Apr. 5; Sp. p. 401; Gaz. vol. 153; p. 73.
Yarrow, Matthew, Smithills, assignor to Yarrow and Company (Bolton) Limited, Bolton, England. Device for forming joints in pipes or mains. No. 978,346; Dec. 13; Sp. p. 2015; Gaz. vol. 161; p. 351.
Yarrow, Matthew, Smithills, assignor to Yarrow and Company (Bolton) Limited, Bolton, England. Machine for the manufacture of earthenware pipes. No. 978,347; Dec. 13; Sp. p. 2016; Gaz. vol. 161; p. 351.
Yarwood, John C., Brockville, Ontario, Canada. Machine for molding blocks. No. 965,978; Aug. 2; Sp. p. 284; Gaz. vol. 157; p. 47.
Yaryan, Homer T., Toledo, Ohio. Apparatus for extracting turpentine and rosin from resinous woods. No. 964,728; July 19; Sp. p. 3802; Gaz. vol. 156; p. 632.
Yassenoff, Isidor, Columbus, Ohio. Reciprocating motor. (Reissue.) No. 13,133; July 12; Sp. p. 3123; Gaz. vol. 156; p. 515.
Yassenoff, Isidor, assignor to The Swash Motor Washer Company, Columbus, Ohio. Motor-mounting for washing-machines. No. 975,919; Nov. 15; Sp. p. 4057; Gaz. vol. 160; p. 683.
Yassenoff, Isidor, assignor to The Swash Motor Washer Company, Columbus, Ohio. Washing-machine. No. 977,772; Dec. 6; Sp. p. 779; Gaz. vol. 161; p. 121.
Yates, Edgar M., Norman, Okla. Tightener for drumheads. No. 955,736; Apr. 19; Sp. p. 4426; Gaz. vol. 153; p. 763.
Yates, Edwin J. (See Sawitzke, Yates, and Adams.)
Yates, Harry. (See Millington and Yates.)
Yates, Joseph, Lake Point, Utah. Mail-bag catcher and deliverer. No. 958,572; May 17; Sp. p. 4696; Gaz. vol. 154; p. 772.
Yates, Joseph, Leemaster, Va. Automatic fire-alarm. No. 959,828; May 31; Sp. p. 7356; Gaz. vol. 154; p. 1245.
Yates, Thomas, Sunnyhurst, Darwen, England. Vapor-torch. No. 957,292; May 10; Sp. p. 1727; Gaz. vol. 154; p. 302.
Yates, Thomas J., assignor of one-half to Salem Laundry Company, Salem, Mass. Automatically-controlled valve mechanism. No. 964,833; July 19; Sp. p. 4007; Gaz. vol. 156; p. 667.
Yates, Thomas J., and P. R. Peterson, Salt Lake City, Utah. Clothes-drier. No. 972,590; Oct. 11; Sp. p. 2367; Gaz. vol. 159; p. 404.
Yates, William C., Coalinga, Cal. Surgical appliance. No. 947,725; Jan. 25; Sp. p. 6027; Gaz. vol. 150; p. 1004.
Yates, William C., Schenectady, N. Y., assignor to General Electric Company. Rheostat. No. 958,457; May 17; Sp. p. 4487; Gaz. vol. 154; p. 734.
Yates, William C., and W. O. Lum, Schenectady, N. Y., assignors to General Electric Company. Automatic circuit-controlling device. No. 957,452; May 10; Sp. p. 2051; Gaz. vol. 154; p. 356.
Yaw, Clio B., Arlington, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 945,895; Jan. 11; Sp. p. 1988; Gaz. vol. 150; p. 330.
Yaw, Clio B., Arlington, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 947,269; Jan. 25; Sp. p. 4996; Gaz. vol. 150; p. 849.
Yaw, Clio B., Arlington, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 958,573; May 17; Sp. p. 4698; Gaz. vol. 154; p. 772.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 957,402; May 10; Sp. p. 1954; Gaz. vol. 154; p. 338.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 963,974; July 12; Sp. p. 2100; Gaz. vol. 156; p. 343.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 965,789; July 26; Sp. p. 6030; Gaz. vol. 156; p. 1024.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 965,790; July 26; Sp. p. 6036; Gaz. vol. 156; p. 1024.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 971,098; Sept. 27; Sp. p. 4177; Gaz. vol. 158; p. 737.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 971,955; Oct. 4; Sp. p. 988; Gaz. vol. 159; p. 165.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 975,099; Nov. 8; Sp. p. 2303; Gaz. vol. 160; p. 377.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 975,100; Nov. 8; Sp. p. 2307; Gaz. vol. 160; p. 377.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 975,101; Nov. 8; Sp. p. 2311; Gaz. vol. 160; p. 378.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 953,083; Mar. 29; Sp. p. 5366; Gaz. vol. 152; p. 987.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 965,496; July 26; Sp. p. 5380; Gaz. vol. 156; p. 921.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 979,630; Dec. 27; Sp. p. 4778; Gaz. vol. 161; p. 839.
Yawger, Edwin, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Gas-scrubber. No. 968,307; Aug. 23; Sp. p. 5271; Gaz. vol. 157; p. 908.
Yawman & Erbe Manufacturing Company. (See Weiss, Albert T., assignor.)
Ybarrondo, Vincent C. de, Los Angeles, Cal. Paper-clip. No. 966,287; Aug. 2; Sp. p. 943; Gaz. vol. 157; p. 150.
Ybarrondo, Vincent C. de, Los Angeles, Cal. Wireless transmission apparatus for controlling the movements of vessels. No. 970,592; Sept. 20; Sp. p. 3083; Gaz. vol. 158; p. 537.
Ybarrondo, Vincent C. de, Los Angeles, Cal. Captive airship mechanism. No. 973,398; Oct. 18; Sp. p. 4158; Gaz. vol. 159; p. 709.
Ybarrondo, Vincent C. de, Los Angeles, Cal. Spark-plug. No. 973,464; Oct. 18; Sp. p. 4289; Gaz. vol. 159; p. 731.
Ybarrondo, Vincent C. de, Los Angeles, Cal. Removable nail. No. 975,310; Nov. 8; Sp. p. 2784; Gaz. vol. 160; p. 450.

Alphabetical list of patentees—Continued.

Yeager, Frank, Riley Center, Mich. Concrete-mixer. No. 952,555; Mar. 22; Sp. p. 4250; Gaz. vol. 152; p. 779.
Yeager, Frederick A., Thornburg, assignor of one-fourth to D. V. McConnel, New Brighton, Pa. Weather-strip. No. 979,631; Dec. 27; Sp. p. 4787; Gaz. vol. 161; p. 840.
Yeager, John E., Carbondale, assignor of three-fourths to J. P. Stanton, Scranton, Pa. Journal-bearing. No. 966,726; Aug. 9; Sp. p. 1912; Gaz. vol. 157; p. 323.
Yeager, Joseph, Newport, Ky., and H. Goldsmith, assignors to P. Goldsmith's Sons, Cincinnati, Ohio. Mitt and glove. No. 952,556; Mar. 22; Sp. p. 4251; Gaz. vol. 152; p. 779.
Yeager, Simon, Crafton, Pa. Propeller. No. 945,663; Jan. 4; Sp. p. 1406; Gaz. vol. 150; p. 219.
Yeakel, Abraham M., assignor of one-half to W. L. Yeakel, Perkasie, Pa. Clock. No. 948,363; Feb. 8; Sp. p. 1215; Gaz. vol. 151; p. 222.
Yeakel, Abraham M., assignor of one-half to W. L. Yeakel, Perkasie, Pa. Clock. No. 948,912; Feb. 8; Sp. p. 2382; Gaz. vol. 151; p. 405.
Yeakel, William B., Coopersburg, Pa. Meat-chopper. No. 970,593; Sept. 20; Sp. p. 3086; Gaz. vol. 158; p. 537.
Yeakel, Wilson L. (See Yeakel, Abraham M., assignor.)
Yearsley, Willis J., West Chester, Pa. Potato-planter. No. 957,293; May 10; Sp. p. 1729; Gaz. vol. 154; p. 302.
Yeaton, Samuel C., Jr., New York, N. Y. Razor. No. 977,919; Dec. 6; Sp. p. 1084; Gaz. vol. 161; p. 172.
Yeatts, Edward D., Sanger, Tex. Cultivator-standard. No. 978,348; Dec. 13; Sp. p. 2018; Gaz. vol. 161; p. 351.
Yelton, Edgar A. (See Bacon, George W., assignor.)
Yentzer, Francis M., assignor to J. E. Porter Company, Ottawa, Ill. Barn-door hanger. No. 963,975; July 12; Sp. p. 2105; Gaz. vol. 156; p. 344.
Yeoman, Eugene C., De Kalb, Ill. Car-seal. No. 950,686; Mar. 1; Sp. p. 474; Gaz. vol. 152; p. 76.
Yerby, Ross B., Brooklyn, N. Y. Bottle-capping machine. No. 948,569; Feb. 8; Sp. p. 1669; Gaz. vol. 151; p. 291.
Yerkey, Marion O., Weston, W. Va. Gun-cleaner. No. 959,680; May 31; Sp. p. 7037; Gaz. vol. 154; p. 1195.
Yetter, Frank J., Greenfield, Mass. Staple or clip. No. 948,913; Feb. 8; Sp. p. 2383; Gaz. vol. 151; p. 405.
Yndearo, Vivian K. (See Yndero and Yndearo.)
Yndero, Charles E., and V. K. Yndearo, Aberdeen, Wash. Sleigh-brake. No. 953,656; Mar. 29; Sp. p. 6621; Gaz. vol. 152; p. 1181.
Yoch, Frank, Claytonia, Pa. Rail bending and straightening device. No. 975,192; Nov. 8; Sp. p. 2541; Gaz. vol. 160; p. 409.
Yockey, Walter A. (See Jones and Yockey.)
Yocom, James, Philadelphia, Pa. Friction-clutch. No. 968,308; Aug. 23; Sp. p. 5273; Gaz. vol. 157; p. 909.
Yocum, John W., Lovelock, Nev. Ditch-mower. No. 961,995; June 21; Sp. p. 3650; Gaz. vol. 155; p. 642.
Yoder, John L., Bellefontaine, Ohio. Automatic traction-switch. No. 974,619; Nov. 1; Sp. p. 1234; Gaz. vol. 160; p. 190.
Yoder, Menno S., Shipshewana, Ind. Hoisting mechanism. No. 964,357; July 12; Sp. p. 2871; Gaz. vol. 156; p. 474.
Yoder, William B., Pittsburg, Pa. Antiskidding tire. No. 976,971; Nov. 29; Sp. p. 6404; Gaz. vol. 160; p. 1094.
Yoha, Harvey L. (See Yoha, Shatzer, and Yoha.)
Yoha, William, C. P. Shatzer, and H. L. Yoha, Mansfield, Ohio. Coal-loading barge. No. 952,293; Mar. 15; Sp. p. 3703; Gaz. vol. 152; p. 662.
Yoho, James F., D. O'Neil, Sharon, and J. L. Kiester, Kiester, Pa. Railway-switch. No. 975,595; Nov. 15; Sp. p. 3376; Gaz. vol. 160; p. 573.
Yonkman, Frederick M. and N., Milwaukee, Wis. Collar-button. No. 956,662; May 3; Sp. p. 335; Gaz. vol. 154; p. 55.
Yonkman, Nicholas. (See Yonkman, Frederick M. and N.)
Yoos, Charles, assignor to Benziger Brothers, New York, N. Y. Candelabrum. No. 957,134; May 3; Sp. p. 1348; Gaz. vol. 154; p. 216.
Yorgensen, Paul L. L., Hartford, Conn. Trousers-hanger. No. 956,254; Apr. 26; Sp. p. 5574; Gaz. vol. 153; p. 972.
York, David A., Northgrove, Ind. Resilient tire. No. 973,245; Oct. 18; Sp. p. 3835; Gaz. vol. 159; p. 656.
York, David A., assignor of two-fifths to D. L. Sheneman, Northgrove, Ind. Railway-switch. No. 945,147; Jan. 4; Sp. p. 277; Gaz. vol. 150; p. 49.
York, James E., New York, N. Y., assignor to York Rolling Process Company. Apparatus for altering elongated steel shapes. No. 950,036; Feb. 22; Sp. p. 4816; Gaz. vol. 151; p. 847.
York, James E., New York, N. Y., assignor to York Rolling Process Company. Manufacture of tie-plates or the like. No. 961,666; June 14; Sp. p. 2944; Gaz. vol. 155; p. 509.
York, John A., Franklin, Conn. Indicating switch-button. No. 972,048; Oct. 4; Sp. p. 1173; Gaz. vol. 159; p. 198.
York Rolling Process Company. (See York, James E., assignor.)
York, William E., and G. D. Hayden, assignors to Morse Twist Drill & Machine Company, New Bedford, Mass. Adjustable reamer. No. 972,139; Oct. 4; Sp. p. 1352; Gaz. vol. 159; p. 227.
Yorke, Horace M., Freeport, Me. Dentist's implement. No. 969,682; Sept. 6; Sp. p. 1125; Gaz. vol. 158; p. 181.
Yorke, Patrick, assignor to P. H. Yorke, Washington, Pa. Derrick. No. 946,815; Jan. 18; Sp. p. 4044; Gaz. vol. 150; p. 670.
Yorke, Patrick H. (See Yorke, Patrick, assignor.)
Yoshikawa, Seisho Y., Treadwell, Alaska. Window-cleaner. No. 953,729; Apr. 5; Sp. p. 93; Gaz. vol. 153; p. 19.
Yost Gearless Motor Company, The. (See Yost, Henry W., assignor.)
Yost, Henry W. (See Pollock, Oliver M., assignor.)
Yost, Henry W., assignor to The Yost Gearless Motor Company, Springfield, Ohio. Water-motor. No. 976,972; Nov. 29; Sp. p. 6406; Gaz. vol. 160; p. 1094.
Yost, Isabelle L., assignor of one-half to R. W. Taylor, Oakland, and one-half to F. Taylor, San Francisco, and M. and C. Taylor, Oakland, Cal., trustees. Bias-band folder. No. 945,432; Jan. 4; Sp. p. 922; Gaz. vol. 150; p. 144.
Yost, Lloyd, St. Marys, Ohio. Starting mechanism for internal-combustion engines. No. 964,138; July 12; Sp. p. 2442; Gaz. vol. 156; p. 401.
Yost, Winfield H., Montreal, Quebec, assignor of one-half to O. W. Meissner, Westmount, Canada. Means for piling coal and the like. No. 953,888; Apr. 5; Sp. p. 403; Gaz. vol. 153; p. 74.
Yost Writing Machine Company. (See Ballou, George F., assignor.)
Yost Writing Machine Company. (See Smith, Arthur W., assignor.)
Yost Writing Machine Company. (See Wallace, Casper D., assignor.)
Yost Writing Machine Company. (See Woodward, Oscar, assignor.)
Young, Adam T., London, England. Player for pianos. No. 963,493; July 5; Sp. p. 1059; Gaz. vol. 156; p. 161.
Young, Adam T., London, England. Player for pianos. No. 971,956; Oct. 4; Sp. p. 995; Gaz. vol. 159; p. 166.
Young, Alfred K., Pittsburg, Pa. Telephone-mouthpiece. No. 952,557; Mar. 22; Sp. p. 4253; Gaz. vol. 152; p. 780.
Young, Amps P., Cave City, Ky. Soil-sterilizing furnace. No. 976,768; Nov. 22; Sp. p. 5909; Gaz. vol. 160; p. 998.
Young, Arthur R., New York, N. Y. Fastening for railway-ties. No. 967,596; Aug. 16; Sp. p. 3755; Gaz. vol. 157; p. 645.
Young, Aubrey E., Cherryvale, Kans. Plumb-level. No. 950,199; Feb. 22; Sp. p. 5141; Gaz. vol. 151; p. 902.
Young, Benson N., Ottumwa, Iowa. Percolator. No. 947,143; Jan. 18; Sp. p. 4705; Gaz. vol. 150; p. 777.
Young, C. A. (See Wilson, Samuel S., assignor.)
Young, Charles A., near Enon, Clark county, Ohio. Firearm. No. 954,663; Apr. 12; Sp. p. 2082; Gaz. vol. 153; p. 365.
Young, Charles A., near Enon, Ohio. Firearm. No. 955,490; Apr. 19; Sp. p. 3864; Gaz. vol. 153; p. 680.
Young, Charles D., Columbus, Ohio. Swing-motion truck for cars. No. 964,834; July 19; Sp. p. 4013; Gaz. vol. 156; p. 668.
Young, Clarence H., Rockland, Mass. Hammock-bed. No. 949,135; Feb. 15; Sp. p. 2858; Gaz. vol. 151; p. 505.
Young, Clarence H., Rockland, Mass. Cot-bed. No. 956,018; Apr. 26; Sp. p. 5040; Gaz. vol. 153; p. 891.
Young Construction Co. (See Glaze, Herbert L., assignor.)
Young, Courtland, Evansford, Lexton, Victoria, Australia. Collar for draft-animals. No. 975,920; Nov. 15; Sp. p. 4058; Gaz. vol. 160; p. 683.
Young, Daniel W., Jr., Sycamore, Ill. Hydrocarbon-burner. No. 949,167; Feb. 15; Sp. p. 2915; Gaz. vol. 151; p. 517.
Young, David H., *et al.* (See Thibodeau, Peter, assignor.)
Young, David J., Pine Bluff, Ark. Musical attachment for automobiles. No. 963,018; June 28; Sp. p. 5815; Gaz. vol. 155; p. 1018.
Young, Edward T. (See Cavanaugh and Young.)
Young, Edwin W. S. (See Harrington and Young.)
Young, Elizabeth H., Chicago, Ill. Skirt-gage. No. 964,139; July 12; Sp. p. 2444; Gaz. vol. 156; p. 401.
Young, Elmer I., New York, N. Y., assignor to Polar Star Company. Ice-cream freezer. No. 949,692; Feb. 15; Sp. p. 3966; Gaz. vol. 151; p. 691.
Young, Elmer I., Montclair, N. J., assignor to Y. & B. Manufacturing Company. Razor-stropping device. No. 952,168; Mar. 15; Sp. p. 3443; Gaz. vol. 152; p. 619.
Young, Elmer I., Montclair, N. J., assignor to Young Specialty Company. Safety-razor. No. 973,734; Oct. 25; Sp. p. 4876; Gaz. vol. 159; p. 847.
Young, Ernest J., Fleming, N. Y. Grinder for ensilage-cutter and other knives. No. 971,873; Oct. 4; Sp. p. 771; Gaz. vol. 159; p. 134.
Young, Erwin M., *et al.* (See Hutchinson, Raleigh E., assignor.)
Young, Francis L., assignor to Aeolian Company, New York, N. Y. Perforated music-sheet. No. 963,108; July 5; Sp. p. 223; Gaz. vol. 156; p. 29.
Young, Francis L., New York, N. Y., assignor to The Aeolian Company. Mechanical musical instrument. No. 968,626; Aug. 30; Sp. p. 5934; Gaz. vol. 157; p. 1045.
Young, Frank. (See Shafer, John W., assignor.)
Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 949,721; Feb. 15; Sp. p. 4024; Gaz. vol. 151; p. 700.

Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 957,294; May 10; Sp. p. 1732; Gaz. vol. 154; p. 303.
Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 959,829; May 31; Sp. p. 7357; Gaz. vol. 154; p. 1245.
Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 961,280; June 14; Sp. p. 2121; Gaz. vol. 155; p. 380.
Young, Frederick W., East Orange, N. J. Commutator for dynamo-electric machines. No. 947,768; Jan. 25; Sp. p. 6105; Gaz. vol. 150; p. 1018.
Young, Freeman N., Cambridge, Mass. Bottle-labeling machine. No. 949,367; Feb. 15; Sp. p. 3332; Gaz. vol. 151; p. 584.
Young, Freeman N., Cambridge, Mass. Bottle-labeling machine. No. 949,368; Feb. 15; Sp. p. 3338; Gaz. vol. 151; p. 584.
Young, George F., Zanesville, Ohio, assignor to Pittsburg High Voltage Insulator Company, Derry, Pa. Machine for threading porcelain insulators. No. 954,490; Apr. 12; Sp. p. 1695; Gaz. vol. 153; p. 306.
Young, George R., Ridgewood, N. J. Time damper apparatus. No. 954,069; Apr. 5; Sp. p. 776; Gaz. vol. 153; p. 135.
Young, George S., U. S. Army. Folding table. No. 970,774; Sept. 20; Sp. p. 3516; Gaz. vol. 158; p. 601.
Young, Guilford E., *et al.* (See Clemmer, Martin L., assignor.)
Young, Harry B., and R. Palomino, Shafter, Tex. Tire-remover. No. 964,358; July 12; Sp. p. 2874; Gaz. vol. 156; p. 474.
Young, Harry L., St. Joseph, Mo. Automatic safety gas-valve. No. 972,975; Oct. 18; Sp. p. 3238; Gaz. vol. 159; p. 563.
Young, Henry A., Providence, R. I. Toy handkerchief-box. No. 961,331; June 14; Sp. p. 2256; Gaz. vol. 155; p. 398.
Young, Henry E., Ogden, Utah, assignor of three-tenths to F. X. Allen, Kansas City, Mo., and six-tenths to H. E. Vaughan, Wolfe City, Tex. Piano-hammer. No. 959,190; May 24; Sp. p. 6022; Gaz. vol. 154; p. 1006.
Young, Horace G., Joppa, Ky. Egg-stamp. No. 975,010; Nov. 8; Sp. p. 2127; Gaz. vol. 160; p. 346.
Young, Ira J., assignor to Great Western Wire Fence & Mfg. Co., St. Louis, Mo. Woven-wire fence. No. 970,594; Sept. 20; Sp. p. 3088; Gaz. vol. 158; p. 538.
Young, Ira J., assignor to Great Western Wire Fence & Mfg. Co., St. Louis, Mo. Wire mat. No. 970,595; Sept. 20; Sp. p. 3089; Gaz. vol. 158; p. 538.
Young, Jackson B., Oakland, Cal. Apparatus for aerating liquids. No. 967,286; Aug. 16; Sp. p. 3107; Gaz. vol. 157; p. 538.
Young, Jacob H., Chicago, Ill. Adjustable fastening device for suspender-straps. No. 959,681; May 31; Sp. p. 7040; Gaz. vol. 154; p. 1195.
Young, James M., assignor to Fort Pitt Supply Company, Pittsburg, Pa. Ventilating-fitting for urinals, &c. No. 954,558; Apr. 12; Sp. p. 1843; Gaz. vol. 153; p. 329.
Young, James P., Hackleburg, Ala. Device for destroying insects which fly at night. No. 952,659; Mar. 22; Sp. p. 4485; Gaz. vol. 152; p. 816.
Young, John, Toledo, Ohio. Circuit-breaker. No. 965,549; July 26; Sp. p. 5532; Gaz. vol. 156; p. 942.
Young, John, Bellefontaine, Ohio. Grave-vault. No. 973,608; Oct. 25; Sp. p. 4613; Gaz. vol. 159; p. 802.
Young, John H., Haskell, Okla. Steering mechanism. No. 968,627; Aug. 30; Sp. p. 5941; Gaz. vol. 157; p. 1046.
Young, John N., Alameda, Cal. Heating apparatus. No. 969,022; Aug. 30; Sp. p. 6772; Gaz. vol. 157; p. 1179.
Young, John N., Brockville, Ontario, Canada. Mop-head. No. 972,315; Oct. 11; Sp. p. 1743; Gaz. vol. 159; p. 306.
Young, John W. (See Meyer and Young.)
Young, John W., Zanesville, Ohio. Apparatus for decorating tiles, &c. No. 975,921; Nov. 15; Sp. p. 4059; Gaz. vol. 160; p. 684.
Young, Joseph H., Shawnee, Okla. Concrete-form. No. 965,979; Aug. 2; Sp. p. 286; Gaz. vol. 157; p. 47.
Young, Leonard A. (See Smith, Albert E., assignor.)
Young, Leonard A., Detroit, Mich. Device for removing cream from milk-bottles. No. 962,187; June 21; Sp. p. 4093; Gaz. vol. 155; p. 710.
Young, Leonard A., Detroit, Mich. Border-wire reinforcement for spring-seat structures. No. 970,157; Sept. 13; Sp. p. 2159; Gaz. vol. 158; p. 368.
Young, Leonard A., Detroit, Mich. Spring-seat structure. No. 970,775; Sept. 20; Sp. p. 3518; Gaz. vol. 158; p. 602.
Young, Leonard A., Detroit, Mich. Spring-attaching clip. No. 976,973; Nov. 29; Sp. p. 6408; Gaz. vol. 160; p. 1095.
Young, Lorenzo H., assignor of one-half to V. P. Hill, Hagerstown, Md. Fifth-wheel for dump-wagons. No. 959,414; May 24; Sp. p. 6452; Gaz. vol. 154; p. 1080.
Young, Lorenzo H., assignor of one-half to V. P. Hill, Hagerstown, Md. Running-gear for dumping-wagons. No. 972,670; Oct. 11; Sp. p. 2526; Gaz. vol. 159; p. 430.
Young, Lorin W. (See Evans and Young.)
Young, Lucious W., Tonawanda, assignor of one-fourth to J. T. Kinney and one-fourth to W. J. Kinney, Buffalo, N. Y. Hatch-fastener. No. 976,974; Nov. 29; Sp. p. 6409; Gaz. vol. 160; p. 1095.
Young, Lucretia T., Red Bank, N. J. Bedclothes-fastener. No. 950,712; Mar. 1; Sp. p. 547; Gaz. vol. 152; p. 86.
Young, Mary A., Chicago, Ill. Dumping mechanism. No. 952,169; Mar. 15; Sp. p. 3445; Gaz. vol. 152; p. 620.
Young, McBeth. (See Reese and Glaxon, assignors.)
Young, Philip K., Omaha, Nebr. Overshoe-retainer. No. 968,105; Aug. 23; Sp. p. 4828; Gaz. vol. 157; p. 838.
Young, Robert, Fitchburg, Mass. Reservoir-pen. No. 962,485; June 28; Sp. p. 4741; Gaz. vol. 155; p. 836.
Young, Robert, Fitchburg, Mass. Shoe-polishing foot-rest. No. 974,847; Nov. 8; Sp. p. 1736; Gaz. vol. 160; p. 290.
Young, Robert J. (See Meyer and Young.)
Young, Samuel L., New Castle, Pa. Tack hammer and puller. No. 957,924; May 17; Sp. p. 3040; Gaz. vol. 154; p. 545.
Young Specialty Company. (See Young, Elmer I., assignor.)
Young, Timothy, Lakeland, Fla. Brick-molding machine. No. 958,898; May 24; Sp. p. 5434; Gaz. vol. 154; p. 910.
Young, Wilbur L., Springfield, Ohio. Hinge. No. 948,656; Feb. 8; Sp. p. 1855; Gaz. vol. 151; p. 320.
Young, William, assignor to Supplementary Spiral Spring Company, St. Louis, Mo. Brace for auxiliary vehicle-springs. No. 966,510; Aug. 9; Sp. p. 1461; Gaz. vol. 157; p. 250.
Young, William E., Detroit, Mich. Closet bend or fitting. No. 954,604; Apr. 12; Sp. p. 1942; Gaz. vol. 153; p. 344.
Young, William H. (See Lyon and Young.)
Young, William P., assignor to American Knitting Machine Company, Philadelphia, Pa. Duplex stripping mechanism for circular-knitting machines. No. 965,428; July 26; Sp. p. 5244; Gaz. vol. 156; p. 898.
Young, William T., assignor of one-half to C. J. Nelson, Denver, Colo. Axle construction for car-trucks. No. 962,398; June 21; Sp. p. 4516; Gaz. vol. 155; p. 779.
Young, William W., Springfield, Mass. Talking-machine diaphragm. No. 973,735; Oct. 25; Sp. p. 4879; Gaz. vol. 159; p. 848.
Young, William W., Springfield, Mass. Acoustic diaphragm. No. 975,596; Nov. 15; Sp. p. 3377; Gaz. vol. 160; p. 574.
Young, William W., Springfield, Mass. Making diaphragms for talking-machines. No. 975,668; Nov. 15; Sp. p. 3559; Gaz. vol. 160; p. 598.
Youngblood, David F., San Antonio, Tex. Interchangeable bottom for jail-cell walls. No. 956,787; May 3; Sp. p. 610; Gaz. vol. 154; p. 98.
Younger, Joshua M. (See Younger, Vernon A., assignor.)
Younger, Vernon A., assignor to J. M. Younger, San Jose, Cal. Excavating-machine. No. 977,920; Dec. 6; Sp. p. 1085; Gaz. vol. 161; p. 172.
Younggreen, Grover C., and J. C. Loef, Los Angeles, Cal. Blow-out guard for inner tubes. No. 972,976; Oct. 18; Sp. p. 3240; Gaz. vol. 159; p. 563.
Younglove, Thomas J., Richmond, Va. Door-check. No. 951,170; Mar. 8; Sp. p. 1430; Gaz. vol. 152; p. 259.
Younglove, Thomas J., assignor of one-half to T. B. Hicks, Richmond, Va. Tool-bag. No. 958,347; May 17; Sp. p. 4260; Gaz. vol. 154; p. 695.
Youngren, France J., Renner, S. D. Folding shipping-crate. No. 970,362; Sept. 13; Sp. p. 2590; Gaz. vol. 158; p. 438.
Youngs, Fred E., Bellaire, Mich. Shower-bath apparatus. No. 950,269; Feb. 22; Sp. p. 5291; Gaz. vol. 151; p. 927.
Youngs, Fred E., Detroit, Mich. Toilet-comb. No. 952,491; Mar. 22; Sp. p. 4111; Gaz. vol. 152; p. 757.
Youngs, Fred E., Detroit, Mich., assignor to Equitable Meter Company, Pittsburg, Pa. Gas-controller. No. 968,021; Aug. 23; Sp. p. 4637; Gaz. vol. 157; p. 810.
Youngs, Fred E., Detroit, Mich., assignor to Equitable Meter Company, Pittsburg, Pa. Gas-controller. No. 971,099; Sept. 27; Sp. p. 4179; Gaz. vol. 158; p. 737.
Youngstown Sheet & Tube Co. (See Mirfield, George E., assignor.)
Youngstown Sheet & Tube Company, The. (See Lewis and Nullmeyer, assignors.)
Younie, William A., Chelsea, Mass. Tumbler-holder. No. 961,568; June 14; Sp. p. 2751; Gaz. vol. 155; p. 476.
Yount, Jesse M., New York, N. Y. Wheel-guard. No. 958,791; May 24; Sp. p. 5172; Gaz. vol. 154; p. 871.
Yourtee, Ralph F., and W. E. Maull, St. Louis, Mo. Rock-drill. No. 946,420; Jan. 11; Sp. p. 3187; Gaz. vol. 150; p. 513.
Youtz, Elmer E., Decatur, Ill. Stovepipe collar and anchor. No. 948,602; Feb. 8; Sp. p. 1741; Gaz. vol. 151; p. 301.
Yoxall, Henry S., and J. Easthope, Birmingham, England. Wheel for roller-skates and the like. No. 971,164; Sept. 27; Sp. p. 4308; Gaz. vol. 158; p. 758.
Yuill, Harry, and M. Favero, London, England. Cock and valve. No. 954,156; Apr. 5; Sp. p. 980; Gaz. vol. 153; p. 165.
Yuster, Maurice L., *et al.* (See Crim and Loy, assignors.)
Zabel, Max W., assignor of one-third to J. G. Ihmsen, Chicago, Ill., and one-third to Oscar M. Leich, Rochester, N. Y. Selective signaling system. No. 956,255; Apr. 26; Sp. p. 5575; Gaz. vol. 153; p. 972.
Zabriskie, Frank L. (See Wolf, Edmund T., assignor.)
Zabriskie, Henry L., Brooklyn, N. Y., assignor to Diehl Manufacturing Company. Brush for dynamo-electric machines. No. 973,836; Oct. 25; Sp. p. 5080; Gaz. vol. 159; p. 883.

Alphabetical list of patentees—Continued.

Zabst, William E., Portage, Wis. Telephone call system. No. 948,941; Feb. 8; Sp. p. 2431; Gaz. vol. 151; p. 414.
Zabst, William E., Portage, Wis. Party-line-telephone call mechanism. No. 958,847; May 24; Sp. p. 5298; Gaz. vol. 154; p. 892.
Zachow, Otto, Clintonville, Wis. Gasolene-supplying attachment for automobiles, &c. No. 980,041; Dec. 27; Sp. p. 5674; Gaz. vol. 161; p. 977.
Zachry, Walter H., Atlanta, Ga. Mop-head. No. 957,025; May 3; Sp. p. 1142; Gaz. vol. 154; p. 180.
Zackey, Harry P., Martinsville, N. Y. Automatic brake-applying device for railway-trains. No. 972,671; Oct. 11; Sp. p. 2527; Gaz. vol. 159; p. 430.
Zackey, William W., Philadelphia, Pa., assignor of forty-nine one-hundredths to C. B. Hewitt, Burlington, N. J. Feeding mechanism for sound-boxes. No. 963,847; July 12; Sp. p. 1841; Gaz. vol. 156; p. 303.
Zagelmeyer, Frank, Bay City, Mich. Brick-ejecting mechanism. No. 976,243; Nov. 22; Sp. p. 4780; Gaz. vol. 160; p. 818.
Zahalan, Richard G. (See Tuerk and Zahalan.)
Zahalan, Richard G., New Liskeard, Ontario, Canada. Hotel-indicator. No. 955,491; Apr. 19; Sp. p. 3875; Gaz. vol. 153; p. 681.
Zahn, Oswald F., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Cal. Roller-bearing. No. 977,692; Dec. 6; Sp. p. 618; Gaz. vol. 161; p. 94.
Zahn, Robert, Plauen, Germany. Embroidering-machine. No. 952,858; Mar. 22; Sp. p. 4910; Gaz. vol. 152; p. 884.
Zahn, Robert, Plauen, Germany. Motion-transmitting mechanism. No. 961,830; June 21; Sp. p. 3301; Gaz. vol. 155; p. 588.
Zahn, Robert, Plauen, Germany. Jacquard-card-punching machine. No. 965,056; July 19; Sp. p. 4461; Gaz. vol. 156; p. 743.
Zahn, Robert, Plauen, Germany. Device for controlling feed mechanisms. No. 966,976; Aug. 9; Sp. p. 2462; Gaz. vol. 157; p. 405.
Zahn, Robert, Plauen, Germany. Device for controlling feed mechanisms. No. 966,977; Aug. 9; Sp. p. 2463; Gaz. vol. 157; p. 406.
Zahn Self Righting Roller Bearing Company. (See Zahn, Oswald F., assignor.)
Zahniser, Michael R. and M. J., Washington, Pa. Foundation for derricks. No. 964,140; July 12; Sp. p. 2445; Gaz. vol. 156; p. 402.
Zahniser, Montgomery J. (See Zahniser, Michael R. and M. J.)
Zander, John L., Newark, N. J. Pencil or stylus holder for recording instruments. No. 946,304; Jan. 11; Sp. p. 2854; Gaz. vol. 150; p. 473.
Zander, John L., Newark, N. J. Electrical measuring instrument. No. 958,792; May 24; Sp. p. 5175; Gaz. vol. 154; p. 871.
Zander, John L., Newark, N. J. Differential galvanometer. No. 967,597; Aug. 16; Sp. p. 3757; Gaz. vol. 157; p. 645.
Zang, Charles, Paris, France. Net-making machine. No. 948,386; Feb. 8; Sp. p. 1282; Gaz. vol. 151; p. 230.
Zang, John. (See Griswold and Zang.)
Zapf, John F., St. Louis, Mo. Gluing-machine. No. 959,986; May 31; Sp. p. 7719; Gaz. vol. 154; p. 1301.
Zappe, Fred A., Philbrook, Minn. Onion-pulling attachment. No. 948,715; Feb. 8; Sp. p. 1985; Gaz. vol. 151; p. 340.
Zaremba Company. (See Mantius, Otto, assignor.)
Zarembowitz, Abraham and C., New York, N. Y. Jeweler's and dentist's burner. No. 976,112; Nov. 15; Sp. p. 4425; Gaz. vol. 160; p. 750.
Zarembowitz, Charles. (See Zarembowitz, Abraham and C.)
Zarniko, Gerhard, Hildesheim, Germany. Sieve for drum-mills. No. 958,348; May 17; Sp. p. 4261; Gaz. vol. 154; p. 696.
Zarr, Clark, Newberry, Pa. Diaphragm. No. 953,889; Apr. 5; Sp. p. 405; Gaz. vol. 153; p. 74.
Zart, A. (See Günther, Hesse, and Zart.)
Zart, Arthur. (See Günther, Hesse, and Zart.)
Zasmeta, James J., Biscay, Minn. Envelop. No. 965,269; July 26; Sp. p. 4887; Gaz. vol. 156; p. 844.
Zastrow, August F. W., Lyons, Iowa. Guard for wood-working-machines. No. 973,837; Oct. 25; Sp. p. 5084; Gaz. vol. 159; p. 883.
Zastrow, Charles W., Arundel Cove, Md. Evaporating apparatus. No. 964,359; July 12; Sp. p. 2875; Gaz. vol. 156; p. 474.
Zastrow, Richard, New Haven, Conn. Closure for wide-mouthed bottles. No. 953,730; Apr. 5; Sp. p. 94; Gaz. vol. 153; p. 19.
Zastrow, Robert, Racine, Wis. Carbon-remover. No. 954,491; Apr. 12; Sp. p. 1696; Gaz. vol. 153; p. 306.
Zaun, George F., Delta, Colo. Carpenter's-bench plug or stop. No. 967,287; Aug. 16; Sp. p. 3111; Gaz. vol. 157; p. 539.
Zdzieblowski, Antoni, Chicago, Ill. Socket for removable table-legs. No. 952,090; Mar. 15; Sp. p. 3294; Gaz. vol. 152; p. 594.
Zebro, Alois. (See Figge and Zebro.)
Zedlitz, Ferdinand, Habendorf, near Reichenberg, Austria-Hungary. Apparatus for testing threads, wires, strips, &c. No. 946,743; Jan. 18; Sp. p. 3860; Gaz. vol. 150; p. 644.
Zeehandelaar, F. J., *et al.* (See Newcomb, David L., assignor.)
Zeglen, Casimir, Chicago, Ill., assignor to C. A. Daniel, Philadelphia, Pa. Tire-reinforcing fabric and making same. No. 977,357; Nov. 29; Sp. p. 7227; Gaz. vol. 160; p. 1227.
Zeglin, Hermann, Berlin, Germany. Corner-bead fastening. No. 950,886; Mar. 1; Sp. p. 896; Gaz. vol. 152; p. 143.
Zehden, Martin. (See Weinberg, Siegfried, assignor.)
Zehetner, Josef, Vienna, Austria-Hungary. Preparing a tooth-healing preparation. No. 972,316; Oct. 11; Sp. p. 1744; Gaz. vol. 159; p. 306.
Zehner, Ernest R., Toledo, Ohio. Belly-rolling machine. No. 976,113; Nov. 15; Sp. p. 4428; Gaz. vol. 160; p. 750.
Zehnpfund, Karl. (See Glinicke and Zehnpfund.)
Zeier, John, administrator. (See Zeier, Odilo A.)
Zeier, Odilo A., deceased, Madison, Wis.; J. Zeier, administrator. Curve-scriber. No. 956,920; May 3; Sp. p. 916; Gaz. vol. 154; p. 145.
Zeigen, Frederic H., Detroit, Mich. Electric cook-stove. No. 958,458; May 17; Sp. p. 4490; Gaz. vol. 154; p. 734.
Zeigler, Lyman H., Redkey, Ind. Hose-supporter. No. 968,628; Aug. 30; Sp. p. 5942; Gaz. vol. 157; p. 1046.
Zein, Georg, Sebnitz, Germany. Scale-scraper for boiler-rivets. No. 949,513; Feb. 15; Sp. p. 3634; Gaz. vol. 151; p. 633.
Zeiser, Dagobert, Troy, N. Y. Folding and trimming mechanism for sewing-machines. No. 948,364; Feb. 8; Sp. p. 1217; Gaz. vol. 151; p. 222.
Zeiske, Richard E., Bellville, Tex. Mailing-galley. No. 955,303; Apr. 19; Sp. p. 3467; Gaz. vol. 153; p. 616.
Zeiss, Firm of Carl. (See Heckel, Jakob, assignor.)
Zeiss, Firm of Carl. (See König, Albert, assignor.)
Zeiss, Firm of Carl. (See Mackensen, Otto, assignor.)
Zeiss, Firm of Carl. (See Rohr, Moritz von, assignor.)
Zeiss, Firm of Carl. (See Schachenmayr, Albert, assignor.)
Zeiss, Firm of Carl. (See Straubel, Rudolf, assignor.)
Zeitler, Charles, Westhope, N. D. Smut-machine. No. 945,896; Jan. 11; Sp. p. 1992; Gaz. vol. 150; p. 330.
Zeliff, George, New York, N. Y. Awning. No. 966,727; Aug. 9; Sp. p. 1913; Gaz. vol. 157; p. 323.
Zelle, William C., St. Louis, Mo. Portable loading-machine. No. 954,492; Apr. 12; Sp. p. 1698; Gaz. vol. 153; p. 306.
Zelle, William C., St. Louis, Mo. Clutch mechanism. No. 965,270; July 26; Sp. p. 4889; Gaz. vol. 156; p. 844.
Zeller, Paul W., Buffalo, N. Y. Spring-support for wagon-shafts. No. 961,708; June 14; Sp. p. 3021; Gaz. vol. 155; p. 523.
Zellers, Mahlon M., Belleville, Ill. Automatic safety device for trolley-poles. No. 954,907; Apr. 12; Sp. p. 2668; Gaz. vol. 153; p. 451.
Zellers, Philip. (See Leininger, John, assignor.)
Zellweger, John, St. Louis, Mo. Annular ore-roasting kiln. No. 976,769; Nov. 22; Sp. p. 5911; Gaz. vol. 160; p. 998.
Zelman, Joseph, El Paso, Tex. Garment-supporter. No. 969,083; Aug. 30; Sp. p. 6898; Gaz. vol. 157; p. 1201.
Zeman, Joseph A., Tobias, Nebr. Armor fabric. No. 952,859; Mar. 22; Sp. p. 4911; Gaz. vol. 152; p. 884.
Zemann, Anton. (See Jagersberger and Zemann.)
Zendel, Hyman B., Passaic, N. J. Lock. No. 947,623; Jan. 25; Sp. p. 5844; Gaz. vol. 150; p. 970.
Zengler, Jacob F., Denver, Colo. Boiler blow-off cock. No. 950,982; Mar. 1; Sp. p. 1082; Gaz. vol. 152; p. 174.
Zeno Manufacturing Company. (See Price, Albert M., assignor.)
Zenz, Theodore, Minneapolis, Minn. Coin-shooting pistol. No. 966,288; Aug. 2; Sp. p. 944; Gaz. vol. 157; p. 150.
Zepeda, Miguel, Syracuse, N. Y. Type-bar bearing. No. 971,653; Oct. 4; Sp. p. 299; Gaz. vol. 159; p. 53.
Zerr, Harry B., Wawawai, Wash. Wheel-bearing. No. 968,911; Aug. 30; Sp. p. 6559; Gaz. vol. 157; p. 1142.
Zerr, Herman, New York, N. Y. Refrigerator. No. 949,252; Feb. 15; Sp. p. 3078; Gaz. vol. 151; p. 545.
Zeschmar, Ernest, Chicago, Ill. Match-lighter. No. 979,632; Dec. 27; Sp. p. 4788; Gaz. vol. 161; p. 840.
Zesiger, John L., Cleveland, Ohio. Screen-door catch. No. 965,791; July 26; Sp. p. 6041; Gaz. vol. 156; p. 1025.
Zesse, Alexander E., assignor of one-third to E. W. Kunze, St. Louis, Mo. Can opening and closing implement. No. 952,170; Mar. 15; Sp. p. 3447; Gaz. vol. 152; p. 620.
Zetka, John, Newark, N. J. Boiler-cleansing apparatus. No. 947,955; Feb. 1; Sp. p. 371; Gaz. vol. 151; p. 60.
Zetterberg, Karl B., *et al.* (See Fagerström, Johansson, and Zetterberg.)
Zeugschmidt, Sophia, Pittsburg, Pa. Clasp. No. 975,102; Nov. 8; Sp. p. 2314; Gaz. vol. 160; p. 378.
Zeysing, Walter, Stettin, Germany. Brake for disk tool-ing-machines. No. 959,682; May 31; Sp. p
vol. 154; p. 1195.
Zhaniel, Camilla F., Charlottenburg, Ger
tion of lighting effects on stages by
sion currents of high frequency. N
Sp. p. 4880; Gaz. vol. 159; p. 84
Zibell, Julius A. (See Cuda, Frar
Zickerman, Wilhelm A., assignor
Mass. Coating-machine. No.
6439; Gaz. vol. 152; p. 1152.

Zickrick, Jacob E. (See Bradley, John W., assignor.)
Ziebur, Johann, Cleveland, Ohio. Mop-wringer. No. 978,257; Dec. 13; Sp. p. 1826; Gaz. vol. 161; p. 319.
Zieg, Frank B., Fredericktown, Ohio. Culvert. No. 960,137; May 31; Sp. p. 8044; Gaz. vol. 154; p. 1351.
Zieg, Joseph, St. Louis, Mo. Motor. No. 949,951; Feb. 22; Sp. p. 4570; Gaz. vol. 151; p. 817.
Ziegenfuss, Friedrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Projectile. No. 945,544; Jan. 4; Sp. p. 1159; Gaz. vol. 150; p. 179.
Ziegler, Edward E., Philadelphia, Pa. Massage-machine. No. 976,423; Nov. 22; Sp. p. 5184; Gaz. vol. 160; p. 880.
Ziegler, Frederick J., Decatur, Ill. Combined hinge-gage and hinge-seat cutter. No. 946,190; Jan. 11; Sp. p. 2599; Gaz. vol. 150; p. 432.
Ziegler, Frederick J., New York, N. Y. Speed-changing mechanism. No. 952,171; Mar. 15; Sp. p. 3448; Gaz. vol. 152; p. 620.
Ziegler, John W., assignor of one-half to L. W. Willett, Spokane, Wash. Current-wheel. No. 966,511; Aug. 9; Sp. p. 1463; Gaz. vol. 157; p. 251.
Ziegler, Joseph S., and C. T. Woodburn, Altoona, Pa. Switch box or casing. No. 948,438; Feb. 8; Sp. p. 1381; Gaz. vol. 151; p. 246.
Ziemss, Henry, Jr., Chicago, Ill. Brake-beam. No. 958,060; May 17; Sp. p. 3532; Gaz. vol. 154; p. 595.
Zierath, Augustus C., Longbeach, Cal. Drilling-rig. No. 967,481; Aug. 16; Sp. p. 3528; Gaz. vol. 157; p. 606.
Zierath, Augustus C., Los Angeles, Cal. Extension-crank. No. 977,252; Nov. 29; Sp. p. 7007; Gaz. vol. 160; p. 1191.
Zierden, W. E., *et al.* (See Wilkins, Thomas M., assignor.)
Zierlein, Richard W., assignor to Modern Gasoline Lighting Company, St. Louis, Mo. Vapor-generator. No. 968,629; Aug. 30; Sp. p. 5943; Gaz. vol. 157; p. 1046.
Ziermore Regulator Company. (See Wilkins, Thomas M., assignor.)
Ziermore Regulator Company *et al.* (See Wilkins, Thomas M., assignor.)
Ziesing, August. (See Bryant and Ziesing.)
Ziganek, Ferdinand, assignor, by mesne assignments, to The Revolving Stove Company, Cleveland, Ohio. Top for cooking-stoves. No. 951,088; Mar. 1; Sp. p. 1265; Gaz. vol. 152; p. 207.
Ziganek, Ferdinand, assignor, by mesne assignments, to The Revolving Stove Company, Cleveland, Ohio. Oven for cooking-stoves. No. 969,828; Sept. 13; Sp. p. 1488; Gaz. vol. 158; p. 256.
Ziganek, Ferdinand, assignor of one-third to J. H. Schulte and one-third to J. Schulte, Cleveland, Ohio. Ball-bearing lock for doors and gates. No. 948,387; Feb. 8; Sp. p. 1286; Gaz. vol. 151; p. 231.
Zikmund, Adolph, Ord, Nebr. Portable elevator. No. 975,597; Nov. 15; Sp. p. 3379; Gaz. vol. 160; p. 574.
Zilen, Victor W. (See Leighton and Zilen.)
Zill, Jacob, Baltimore, Md. Liquid-vending apparatus. No. 973,903; Oct. 25; Sp. p. 5230; Gaz. vol. 159; p. 907.
Ziller, Bessie, Austin, Tex. Diffusion-block for subsoil irrigation. No. 968,225; Aug. 23; Sp. p. 5099; Gaz. vol. 157; p. 879.
Ziller, Robert L., Austin, Tex. Porous pipe and manufacturing the same. No. 968,226; Aug. 23; Sp. p. 5102; Gaz. vol. 157; p. 879.
Zillmer, Charles F., and G. A. Strohhaecker, Milwaukee, Wis. Traction device for automobiles. No. 967,100; Aug. 9; Sp. p. 2721; Gaz. vol. 157; p. 448.
Zimdars, John B., San Francisco, Cal. Type-writer erasing attachment. No. 953,571; Mar. 29; Sp. p. 6447; Gaz. vol. 152; p. 1153.
Zimmer, Ernest L. B., Minneapolis, Minn. Fumigating attachment. No. 947,726; Jan. 25; Sp. p. 6028; Gaz. vol. 150; p. 1004.
Zimmer, Ernest L. B., assignor to Zimmer Vacuum Renovator Company, Minneapolis, Minn. Air-pumping apparatus. No. 978,258; Dec. 13; Sp. p. 1827; Gaz. vol. 161; p. 319.
Zimmer, John H., Omaha, Nebr. Rotary engine. No. 968,630; Aug. 30; Sp. p. 5945; Gaz. vol. 157; p. 1047.
Zimmer, Nathan, Hopkinsville, Ky. Cleaning grain. No. 972,977; Oct. 18; Sp. p. 3241; Gaz. vol. 159; p. 563.
Zimmer, Rudolph E., Chicago, Ill. Stationery device. No. 952,172; Mar. 15; Sp. p. 3452; Gaz. vol. 152; p. 621.
Zimmer Vacuum Renovator Company. (See Zimmer, Ernest L. B., assignor.)
Zimmerhackel, Harry. (See Walter, Earl N., assignor.)
Zimmerlee, John M., Bethany, Mo. Broom. No. 962,188; June 21; Sp. p. 4095; Gaz. vol. 155; p. 711.
Zimmerman, Bernard H., Stittville, and R. Hughes, Jr., Utica, N. Y., assignors, by mesne assignments, to Union Special Machine Company, Chicago, Ill. Sewing and [illegible]machine. (Reissue.) No. 13,182; Dec. 6; Gaz. vol. 161; p. 249.
[illegible]arles. (See Fischer and Zimmerman.)
[illegible]les M., Cincinnati, Ohio. Converting [illegible]; June 7; Sp. p. 1646; Gaz. vol. 155;
[illegible], Cincinnati, Ohio. Glue-converter. [illegible] Sp. p. 2751; Gaz. vol. 155; p. 476.
[illegible]incinnati, Ohio. Glue-melting June 14; Sp. p. 2753; Gaz.
Zimmerman, Charles M., Cincinnati, Ohio. Glue-faucet. No. 971,337; Sept. 27; Sp. p. 4655; Gaz. vol. 158; p. 814.
Zimmerman, Daniel S., North Water Gap, Pa. Suction-box. No. 970,776; Sept. 20; Sp. p. 3520; Gaz. vol. 158; p. 602.
Zimmerman, Elbert B., Lincoln, Nebr. Wire-stretcher. No. 951,355; Mar. 8; Sp. p. 1815; Gaz. vol. 152; p. 318.
Zimmerman, Frank D., Schoeneck, Pa. Mechanical movement. No. 967,699; Aug. 16; Sp. p. 3948; Gaz. vol. 157; p. 678.
Zimmerman, George W. R., Lime Kiln, Md. Incubator. No. 960,476; June 7; Sp. p. 469; Gaz. vol. 155; p. 79.
Zimmerman, Harry. (See Bartholomae, William, assignor.)
Zimmerman, Harry, Fremont, Ohio. Card-record for manufacturing purposes. No. 945,897; Jan. 11; Sp. p. 1993; Gaz. vol. 150; p. 330.
Zimmerman, Harry, Fremont, Ohio. Shutter fastener and bower. No. 952,660; Mar. 22; Sp. p. 4486; Gaz. vol. 152; p. 816.
Zimmerman, Harry, Fremont, Ohio. Material-cutter and grouping-frame. No. 954,559; Apr. 12; Sp. p. 1844; Gaz. vol. 153; p. 330.
Zimmerman, Harry, Fremont, Ohio. Die-carrier. No. 955,245; Apr. 19; Sp. p. 3349; Gaz. vol. 153; p. 597.
Zimmerman, Harry, Fremont, Ohio. Shutter-fastener. No. 956,256; Apr. 26; Sp. p. 5581; Gaz. vol. 153; p. 973.
Zimmerman, Harry, Fremont, Ohio. Bundling-machine. No. 961,709; June 14; Sp. p. 3023; Gaz. vol. 155; p. 523.
Zimmerman, Harry, assignor to The Fremont Mitten and Glove Company, Fremont, Ohio. Material-handling mechanism. No. 973,331; Oct. 18; Sp. p. 4009; Gaz. vol. 159; p. 686.
Zimmerman, Isaiah E., *et al.* (See Macdonald, Thomas A., assignor.)
Zimmerman, Jacob. (See Fitz, John, Jr., assignor.)
Zimmerman, John W., Chicago, Ill. Toy. No. 955,492; Apr. 19; Sp. p. 3876; Gaz. vol. 153; p. 681.
Zimmerman, Samuel P. (See Baskin, Edwin T., assignor.)
Zimmerman, William C. F., Lone Tree, Iowa. Coupling. No. 947,466; Jan. 25; Sp. p. 5481; Gaz. vol. 150; p. 916.
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Gear-cutting machine. No. 973,399; Oct. 18; Sp. p. 4163; Gaz. vol. 159; p. 710.
Zimmerman, William J. (See McCamey and Zimmerman.)
Zimmerman, Zanoni. (See Kunzmann and Zimmerman.)
Zimmermann, Emil C., New York, N. Y. Insulated rail-joint. No. 970,869; Sept. 20; Sp. p. 3710; Gaz. vol. 158; p. 634.
Zimmermann, George, Philadelphia, Pa. Loom for weaving double-pile fabrics. No. 962,286; June 21; Sp. p. 4297; Gaz. vol. 155; p. 742.
Zimmermann, Oscar, St. Helen, Oreg. Wrench. No. 968,106; Aug. 23; Sp. p. 4830; Gaz. vol. 157; p. 839.
Zindler, Adolf, New York, N. Y. Manufacture of gas. No. 956,019; Apr. 26; Sp. p. 5041; Gaz. vol. 153; p. 891.
Zindorf, Matthias P., Seattle, Wash. Cuff-holder. No. 952,661; Mar. 22; Sp. p. 4487; Gaz. vol. 152; p. 817.
Zindorf, Matthias P., Seattle, Wash. Ditching and grading machine. No. 952,662; Mar. 22; Sp. p. 4488; Gaz. vol. 152; p. 817.
Zindorf, Matthias P., Seattle, Wash. Leveling and scraping machine. No. 952,663; Mar. 22; Sp. p. 4491; Gaz. vol. 152; p. 817.
Zink, Edward. (See Gaynor, Timothy, Jr., assignor.)
Zinn, Firm of Simon. (See Schmidt, William, assignor.)
Zinn, Firm of Simon. (See Smart, Walter J., assignor.)
Zinninger, Edward D., Portland, Oreg. Door-lock. No. 962,287; June 21; Sp. p. 4298; Gaz. vol. 155; p. 743.
Zinsmayer, Robert, assignor of three-tenths to A. Krapp and three-tenths to C. L. Blatz, Sandusky, Ohio. Support for telephone-receivers. No. 949,814; Feb. 22; Sp. p. 4257; Gaz. vol. 151; p. 768.
Zint, George, Wapakoneta, Ohio. Game apparatus. No. 968,309; Aug. 23; Sp. p. 5274; Gaz. vol. 157; p. 909.
Zipplies, Arthur, Mosbach, assignor to Aktiengesellschaft Körting's Electricitätswerke, Berlin, Germany. Electric motor-meter. No. 968,631; Aug. 30; Sp. p. 5948; Gaz. vol. 157; p. 1047.
Ziron, Paul, New York, N. Y. Lock. No. 945,664; Jan. 4; Sp. p. 1407; Gaz. vol. 150; p. 219.
Ziron, Paul, New York, N. Y. Railway system. No. 975,103; Nov. 8; Sp. p. 2315; Gaz. vol. 160; p. 378.
Ziron, Paul, New York, N. Y., assignor to Noriz Manufacturing Company. Lock. No. 962,486; June 28; Sp. p. 4742; Gaz. vol. 155; p. 836.
Zirwas, Henry, Yonkers, N. Y. Lamp-reflector. No. 975,669; Nov. 15; Sp. p. 3562; Gaz. vol. 160; p. 599.
Zitko, Charles, St. Louis, Mo. Refuse-receptacle. No. 952,173; Mar. 15; Sp. p. 3453; Gaz. vol. 152; p. 621.
Zittlosen Manufacturing Company. (See Wetteroth, Frank, assignor.)
Zitzerman, Isaac D., Kansas City, Kans., assignor of fifty one-hundredths to himself, and fifty one-hundredths to L. G. Rosenfield, Albuquerque, N. Mex. Rail-chair and spike. No. 964,360; July 12; Sp. p. 2876; Gaz. vol. 156; p. 475.
Zizinia, Paul T., New York, N. Y. Garment-hanger. No. 977,921; Dec. 6; Sp. p. 1088; Gaz. vol. 161; p. 173.

Alphabetical list of patentees—Continued.

Zizinia, Paul T., New York, N. Y. Garment-hanger. No. 978,422; Dec. 13; Sp. p. 2177; Gaz. vol. 161; p. 377.
Zizinia, Paul T., New York, N. Y. Garment-hanger. No. 978,423; Dec. 13; Sp. p. 2179; Gaz. vol. 161; p. 377.
Zobelein, George, *et al.* (See Rademacher, Frank, assignor.)
Zollars, Paul T., Edgerton, Mo. Cultivator. No. 959,683; May 31; Sp. p. 7042; Gaz. vol. 154; p. 1196.
Zoller, John P., Cascade, Iowa. Grain-bucket. No. 948,365; Feb. 8; Sp. p. 1220; Gaz. vol. 151; p. 223.
Zoller, John P., Cascade, Iowa. Hoisting and dumping mechanism. No. 959,096; May 24; Sp. p. 5825; Gaz. vol. 154; p. 976.
Zolnay, George J., St. Louis, assignor to The Lewis Publishing Company, University City, Mo. Making art models, &c. No. 968,505; Aug. 23; Sp. p. 5673; Gaz. vol. 157; p. 977.
Zone Dynamo & Motor Patents Company. (See Burleigh, John W., assignor.)
Zorn, John B., assignor of one-fourth to E. M. Smith, Wisdom, Mont. Non-refillable bottle. No. 968,227; Aug. 23; Sp. p. 5104; Gaz. vol. 157; p. 879.
Zorn, Samuel. (See Brownstein, Benjamin, assignor.)
Zschau, Robert H., Cincinnati, Ohio. Game apparatus. No. 954,070; Apr. 5; Sp. p. 781; Gaz. vol. 153; p. 135.
Zucke, Nicholas, Sparks, Nev. Water-gage glass. No. 966,289; Aug. 2; Sp. p. 946; Gaz. vol. 157; p. 150.
Zuk, Joseph M., New Britain, Conn. Extension-hook. No. 950,466; Feb. 22; Sp. p. 5652; Gaz. vol. 151; p. 991.
Zumbrook, Louis B., Chicago, Ill. Comb. No. 954,240; Apr. 5; Sp. p. 1164; Gaz. vol. 153; p. 194.
Zünd, Pius, Gossau, near St. Gallen, assignor to Rappolt & Co., St. Gallen, Switzerland. Embroidering-machine. No. 967,288; Aug. 16; Sp. p. 3112; Gaz. vol. 157; p. 539.
Zuppa, Theodore. (See Albertoni and Zuppa.)
Zurbuch, Henry A., Marion, Ind. Mold for making blocks and bricks. No. 950,811; Mar. 1; Sp. p. 753; Gaz. vol. 152; p. 120.
Zweibel, Lewis F. (See Royer and Zweibel.)
Zwermann, Carl H., Kalamazoo, Mich. Lining for refrigerators. No. 963,198; July 5; Sp. p. 434; Gaz. vol. 156; p. 61.
Zwermann, Carl H., Kalamazoo, Mich. Float. No. 964,729; July 19; Sp. p. 3803; Gaz. vol. 156; p. 632.
Zwieger, Hermann, Dresden-Blasewitz, Germany. Nose-bag. No. 951,356; Mar. 8; Sp. p. 1818; Gaz. vol. 152; p. 319.
Zwingli, Arnold, Brooklyn, N. Y. Chimney-top. No. 959,415; May 24; Sp. p. 6453; Gaz. vol. 154; p. 1080.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

A. Siegrist Co. (See Doebell, Frederick, assignor.)
A. H. Heisey & Co. (See Sanford, Andrew J., assignor.)
Abram Cox Stove Company. (See Van Buren, Jafew S., assignor.)
Abramson, Alfred C., assignor to Haddorff Piano Company, Rockford, Ill. Piano-case. No. 40,678; May 3; Gaz. vol. 154; p. 235.
Adler, Jesse, New York, N. Y. Badge or similar article. No. 40,653; Apr. 26; Gaz. vol. 153; p. 1060.
Ahrenfeldt, Charles J., New York, N. Y. China plate. No. 40,860; Sept. 6; Gaz. vol. 158; p. 212.
Allen, Francis K., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Handle-plate for caskets. Nos. 40,715–16; May 31; Gaz. vol. 154; p. 1391.
Allen, Francis K., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Handle-plate for caskets. No. 40,729; June 14; Gaz. vol. 155; p. 538.
Allen, Francis K., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Name-plate for caskets. No. 40,730; June 14; Gaz. vol. 155; p. 538.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 40,840; Aug. 30; Gaz. vol. 157; p. 1225.
Allen, Henry W., and George R. Meeker, Brooklyn, N. Y. Game-board. No. 40,945; Oct. 18; Gaz. vol. 159; p. 734.
American Caramel Company. (See Schopf, Abraham, assignor.)
American Lithographic Company. (See Ettlinger, Louis, assignor.)
American Pin Company. (See Willetts, William R., assignor.)
American Stove Company. (See Harvey, John G., assignor.)
Ames, Henry A., assignor to Standard Thermometer Company, Boston, Mass. Thermostat-casing. No. 40,942; Oct. 18; Gaz. vol. 159; p. 733.
Anderson, Charles H., Oklahoma City, Okla., assignor to North & Judd Manufacturing Company, New Britain, Conn. Harness-spreader. No. 40,569; Mar. 8; Gaz. vol. 152; p. 470.
Anzelewitz, Moses A., New York, N. Y. Spoon, fork, or similar article. No. 40,814; Aug. 9; Gaz. vol. 157; p. 468.
Arthur, Joseph P., assignor to Cyclone Fence Company, Waukegan, Ill. Wire-fence fabric. No. 40,755; July 5; Gaz. vol. 156; p. 244.
Avery, George E., New Haven, Conn. Pocket-book. No. 40,518; Feb. 22; Gaz. vol. 151; p. 992.
Bachrach, Sampson, Chicago, Ill. Display-cabinet. No. 40,762; July 12; Gaz. vol. 156; p. 516.
Badger Brass Manufacturing Company, The. (See Welles, Richard H., assignor.)
Bailey, Joseph T., Philadelphia, Pa. Badge or similar article. No. 40,495; Feb. 8; Gaz. vol. 151; p. 431.
Baker Motor Vehicle Company. (See Gruenfeldt, Emil, assignor.)
Baldwin Jewelry Co., The. (See Clulee, John, assignor.)
Ball, Sidney Y., assignor to The Webb C. Ball Watch Company, Cleveland, Ohio. Bow-socket for watches. No. 40,668; May 3; Gaz. vol. 154; p. 233.
Bandlow, Henry E., Chicago, Ill. Water-heater. No. 40,846; Aug. 30; Gaz. vol. 157; p. 1226.
Barnhart Brothers & Spindler. (See Gaunt, Sidney C., assignor.)
Barrett, Charles F. (See Baxter and Barrett.)
Bashinski, Harry, Macon, Ga. Watch-charm or similar article. No. 40,750; July 5; Gaz. vol. 156; p. 243.
Bates & Bacon. (See Crossman, Otis B., assignor.)
Baxter, Irving K., Utica, N. Y., and C. F. Barrett, Springfield, Mass., assignors to The Standard Vacuum Cleaner Company, Bridgeport, Conn. Casing for portable suction cleaning apparatus. No. 41,007; Nov. 29; Gaz. vol. 160; p. 1253.
Beach, Sheldon B., Meriden, assignor to The Bristol Brass Company, Bristol, Conn. Hand-mirror or similar article. No. 40,472; Jan. 25; Gaz. vol. 150; p. 1026.
Becvar, Joseph, Cleveland, Ohio. Stove. No. 40,505; Feb. 8; Gaz. vol. 151; p. 433.
Belleville Stove & Range Company. (See Bertram, William L., assignor.)
Berry, George H., Shelton, assignor to International Silver Company, Meriden, Conn. Back for mirrors, brushes, or similar toilet articles. Nos. 40,803–5; Aug. 2; Gaz. vol. 157; p. 192.
Berry, George H., Shelton, assignor to International Silver Company, Meriden, Conn. Back for mirrors, brushes, or similar toilet articles. Nos. 40,960–1; Nov. 1; Gaz. vol. 160; p. 243.
Bertram, William L. (See Cope and Bertram.)
Bertram, William L., Detroit, Mich., assignor to Belleville Stove & Range Company, Belleville, Ill. Stove. Nos. 40,732–3; June 14; Gaz. vol. 155; p. 539.
Bessiere, Louis. (See Gredelue, Adrien, assignor.)
Bevan, William W., Melrose Highlands, Mass. Lace-paper mat. Nos. 40,707–8; May 24; Gaz. vol. 154; p. 1090.
Bigelow Carpet Company. (See Elliot, William A., assignor.)
Bigelow Carpet Company. (See Forrester, Charles, assignor.)
Bigelow Carpet Company, The. (See Merry, John, assignor.)
Bigelow Carpet Company. (See Moffat, John B., assignor.)
Bigelow Carpet Company. (See Reith, William G., assignor.)
Bigelow Carpet Company, The. (See Sauer, Emil G., assignor.)
Bigelow Carpet Company. (See Schindler, Francis, assignor.)
Bigelow Carpet Company. (See Spring, John, assignor.)
Bigelow Carpet Company. (See Spring, William A., assignor.)
Bigelow Carpet Company. (See Witzel, John H., assignor.)
Bigney, Harold O., assignor to S. O. Bigney, Attleboro, Mass. Brush-back and mirror. No. 40,989; Nov. 15; Gaz. vol. 160; p. 760.
Bigney, Harold O., assignor to S. O. Bigney, Attleboro, Mass. Emblem. No. 41,033; Dec. 13; Gaz. vol. 161; p. 512.
Bigney, Sidney O. (See Bigney, Harold O., assignor.)
Bigney, Sidney O., Attleboro, Mass. Coin-holder and vinaigrette. No. 40,858; Sept. 6; Gaz. vol. 158; p. 212.
Bigney, Sidney O., Attleboro, Mass. Locket and vinaigrette. No. 40,873; Sept. 6; Gaz. vol. 158; p. 215.
Bigney, Sidney O., Attleboro, Mass. Hat-pin. No. 40,885; Sept. 20; Gaz. vol. 158; p. 683.
Bigney, Sidney O., Attleboro, Mass. Safety-fob and vinaigrette. No. 40,987; Nov. 15; Gaz. vol. 160; p. 760.
Birkin, Charles W., Nottingham, England. Levers lace. Nos. 41,016–19; Nov. 29; Gaz. vol. 160; pp. 1255–6.
Bissig, Anna M., City Point, Wis. Watchcase. No. 40,695; May 17; Gaz. vol. 154; p. 820.
Blankenmeister, Arthur A., St. Louis, Mo. Plate or similar article. No. 40,963; Nov. 1; Gaz. vol. 160; p. 244.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. Nos. 40,464–6; Jan. 25; Gaz. vol. 150; p. 1025.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. Nos. 40,595–7; Mar. 29; Gaz. vol. 152; p. 1190.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 40,610; Apr. 5; Gaz. vol. 153; p. 255.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 40,791; July 26; Gaz. vol. 156; p. 1047.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 40,946; Oct. 18; Gaz. vol. 159; p. 734.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 41,030; Dec. 6; Gaz. vol. 161; p. 253.
Bliss, Walter B., Los Angeles, Cal. Puzzle-badge. No. 40,914; Sept. 27; Gaz. vol. 158; p. 871.
Blough, Wilson R., Harrisburg, Pa. Bonnet. No. 40,957; Oct. 25; Gaz. vol. 159; p. 980.
Blount, Nelson, assignor to United Lamp and Burner Company, New York, N. Y. Lamp. No. 41,004; Nov. 29; Gaz. vol. 160; p. 1252.
Bonner, Douglas E., assignor to The Pantasote Leather Company, New York, N. Y. Textile fabric. No. 40,691; May 10; Gaz. vol. 154; p. 497.
Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 40,526; Feb. 22; Gaz. vol. 151; p. 994.
Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 40,625; Apr. 12; Gaz. vol. 153; p. 523.
Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. Nos. 40,824–5; Aug. 16; Gaz. vol. 157; p. 738.
Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. Nos. 40,891–2; Sept. 20; Gaz. vol. 158; p. 684.
Boston-1915 (Inc.). (See Rollings, Albert S., assignor.)

Alphabetical list of patentees of designs—Continued.

Bosworth, William W., New York, N. Y. Lamp-post. No. 40,826; Aug. 16; Gaz. vol. 157; p. 739.

Bowers, William F., San Francisco, Cal. Rubber hose. No. 40,763; July 12; Gaz. vol. 156; p. 517.

Bowlen, William C., Providence, R. I., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Handle for spoons, forks, or similar articles. No. 40,641; Apr. 19; Gaz. vol. 153; p. 804.

Boydell Bros. White Lead & Color Co., The. (See Furste, Henry, assignor.)

Boyle, Dad, Amarillo, Tex. Wagon-body. No. 40,878; Sept. 13; Gaz. vol. 158; p. 469.

Breitinger, Louis A., Philadelphia, Pa. Clock and hall stand. No. 40,921; Sept. 27; Gaz. vol. 158; p. 873.

Brightman, Samuel D., New York, N. Y. Leather. No. 40,843; Aug. 30; Gaz. vol. 157; p. 1225.

Bristol Brass Company, The. (See Beach, Sheldon B., assignor.)

Bromley & Sons, John. (See Petzold, Adolph, assignor.)

Brown, Leslie A., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 40,430; Jan. 11; Gaz. vol. 150; p. 551.

Brown, Leslie A., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 40,776; July 19; Gaz. vol. 156; p. 777.

Brown, Theodore P., assignor to Simplex Piano Player Co., Worcester, Mass. Piano-casing. No. 40,559; Mar. 1; Gaz. vol. 152; p. 214.

Bruch, Charles P., New York, N. Y. Letter-head. No. 40,529; Feb. 22; Gaz. vol. 151; p. 994.

Bruguier Chemical Co. (See Thayer, Emma R. L., assignor.)

Buchmiller, Dulon F., and E. Schwarz, Lancaster, Pa., assignors to The Safe Padlock and Hardware Company. Hat and coat hanger. No. 41,006; Nov. 29; Gaz. vol. 160; p. 1253.

Burgunder, Marie, McKees Rocks, Pa. Olive-spoon. No. 40,696; May 17; Gaz. vol. 154; p. 820.

C. Dorflinger & Sons. (See Northwood, Charles O., assignor.)

Calvert, Frank W., Narberth, assignor to The Charles E. Hires Company, Philadelphia, Pa. Liquid-dispensing fountain. No. 40,558; Mar. 1; Gaz. vol. 152; p. 214.

Cambridge Glass Company, The. (See Haley, Reuben, assignor.)

Cannata, Giuseppe, Chicago, Ill. Clock-frame. No. 40,574; Mar. 15; Gaz. vol. 152; p. 714.

Carlson, Carl A., Odessa, Minn. Picture-frame. No. 40,552; Mar. 1; Gaz. vol. 152; p. 213.

Carlson, Carl E. (See Silbert and Carlson.)

Catlin, Charles P., Duluth, Minn. Handle for alarm-clocks. No. 40,972; Nov. 8; Gaz. vol. 160; p. 477.

Cestero, Fermin, Habana, Cuba. Sign-board. No. 40,956; Oct. 25; Gaz. vol. 159; p. 979.

Charles E. Hires Company, The. (See Calvert, Frank W., assignor.)

Chemische Werke vormals Dr. Heinrich Byk, Act.-Ges. (See Hoff, Bruno, assignor.)

Cheney Brothers. (See Crownfield, Sophia L., assignor.)

Cheney Brothers. (See Doughty, Emma W., assignor.)

Cheney Brothers. (See Dupont, Paul, assignor.)

Cheney Brothers. (See Gattiker, Robert, assignor.)

Cheney Brothers. (See Mouton, Paul, assignor.)

Cheney Brothers. (See Olsson, Anna, assignor.)

Cheney Brothers. (See Sins, Emile, assignor.)

Cincinnati Coffin Company, The. (See Zinser, Paul R., assignor.)

Cleff, Robert C. vom, Hoboken, N. J. Handle for pocket-knives. No. 40,998; Nov. 29; Gaz. vol. 160; p. 1251.

Clulee, John, Wallingford, Conn., assignor to The Baldwin Jewelry Co., San Francisco, Cal. Spoon. No. 40,703; May 24; Gaz. vol. 154; p. 1090.

Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle of spoons, forks, or similar articles. No. 40,519; Feb. 22; Gaz. vol. 151; p. 992.

Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle of a spoon, fork, or similar article. No. 40,548; Feb. 22; Gaz. vol. 151; p. 998.

Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 40,685; May 10; Gaz. vol. 154; p. 496.

Cohn, Samuel, New York, N. Y. Label-blank. Nos. 40,433–4; Jan. 11; Gaz. vol. 150; p. 552.

Cohn, Samuel, New York, N. Y. Label-blank. Nos. 40,530–1; Feb. 22; Gaz. vol. 151; pp. 994–5.

Coke, George M., assignor to The Fuller-Warren Co., Milwaukee, Wis. Gas-range. No. 40,701; May 17; Gaz. vol. 154; p. 821.

Colonel, Joseph, New York, N. Y., assignor to Rhinelander Refrigerator Co., Rhinelander, Wis. Refrigerator. No. 40,838; Aug. 23; Gaz. vol. 157; p. 986.

Conover, Edwin K., Paterson, N. J. Standard and casing for lifting-jacks. No. 40,874; Sept. 6; Gaz. vol. 158; p. 215.

Consolidated Lamp & Glass Co. (See McAfee, Hugh, assignor.)

Cooperative Foundry Company. (See Kennedy and King, assignors.)

Cope, George W., and W. L. Bertram, Detroit, Mich. Stove. No. 40,810; Aug. 2; Gaz. vol. 157; p. 193.

Crane & Breed Manufacturing Company, The. (See Blesch, Charles, assignor.)

Creange, Henry, New York, N. Y. Tureen or similar article. No. 40,725; June 14; Gaz. vol. 155; p. 537.

Creange, Henry, New York, N. Y. Dish or similar article. No. 40,726; June 14; Gaz. vol. 155; p. 538.

Creange, Henry, New York, N. Y. Covered dish or similar article. No. 40,836; Aug. 23; Gaz. vol. 157; p. 986.

Crossman, Otis B., Chartley, assignor to Bates & Bacon, Attleboro, Mass. Link for ornamental chains. No. 40,775; July 19; Gaz. vol. 156; p. 777.

Crowell, Gilbert L., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Back for brushes or similar articles. No. 40,841; Aug. 30; Gaz. vol. 157; p. 1225.

Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Spoon, fork, or similar article. Nos. 40,832–3; Aug. 23; Gaz. vol. 157; p. 985.

Crownfield, Sophia L., New York, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 40,898; Sept. 20; Gaz. vol. 158; p. 686.

Cyclone Fence Company. (See Arthur, Joseph P., assignor.)

D. H. Burrell & Company. (See Hoyt, Matthew L., assignor.)

D'onofrio, Maria, Lorain, Ohio. Bedspread. No. 40,626; Apr. 12; Gaz. vol. 153; p. 524.

Danver, James H., Beaver, assignor to United States Sanitary Manufacturing Company, Pittsburg, Pa. Pedestal for lavatories. No. 41,037; Dec. 13; Gaz. vol. 161; p. 512.

Davids, Joseph, assignor to Phillips & Clark Stove Co., Geneva, N. Y. Stove. No. 40,964; Nov. 1; Gaz. vol. 160; p. 244.

Davies, Benjamin F., Union Hill, N. J., assignor to L. Straus & Sons, New York, N. Y. Glass vessel. No. 40,742; June 28; Gaz. vol. 155; p. 1025.

Dawley, Herbert M., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Vase. Nos. 40,562–3; Mar. 8; Gaz. vol. 152; p. 468.

Dawley, Herbert M., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Vehicle-lamp. No. 40,761; July 12; Gaz. vol. 156; p. 516.

De Freeze, John, Newark, assignor of one-half to C. B. Luton, Lowell, Ohio. Badge. No. 40,683; May 10; Gaz. vol. 154; p. 495.

De Vilbiss, Allen, Jr., assignor to Toledo Computing Scale Company, Toledo, Ohio. Computing-scale housing. No. 40,593, Mar. 29; Gaz. vol. 152; p. 1190.

De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)

De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Perfume-atomizer tube. No. 40,790; July 26; Gaz. vol. 156; p. 1047.

Dean, John R., New Britain, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,735; June 21; Gaz. vol. 155; p. 783.

Dean, John R., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,599; Apr. 5; Gaz. vol. 153; p. 253.

Dean, John R., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,890; Sept. 20; Gaz. vol. 158; p. 684.

Didcoct, John J., Streator, Ill. Badge or similar article. No. 40,709; May 31; Gaz. vol. 154; p. 1390.

Dieges, Charles J., New York, N. Y. Badge. No. 40,830; Aug. 23; Gaz. vol. 157; p. 984.

Diehl, Caroline W., Washington, D. C. Statuette. No. 41,050; Dec. 20; Gaz. vol. 161; p. 737.

Dietz, Alanson F., Altamont, N. Y. Checkrein-holder. No. 40,741; June 21; Gaz. vol. 155; p. 784.

Doebeli, Frederick, assignor to A. Siegrist Co., New York, N. Y. Braid. No. 40,507; Feb. 8; Gaz. vol. 151; p. 434.

Dominick & Haff. (See Crowell, Gilbert L., Jr., assignor.)

Dorey, William A., New York, N. Y. Reflector or similar article. No. 41,029; Dec. 6; Gaz. vol. 161; p. 253.

Doten-Dunton Desk Co. (See Dunton, Kervin R., assignor.)

Doughty, Emma W., Ramapo, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 40,781; July 19; Gaz. vol. 156; p. 778.

Dudgeon, Thomas M., Avalon, Pa. Fireplace-frame. No. 40,437; Jan. 11; Gaz. vol. 150; p. 552.

Dunton, Kervin R., assignor to Doten-Dunton Desk Co., Boston, Mass. Desk. No. 41,058; Dec. 27; Gaz. vol. 161; p. 1029.

Dupont, Paul, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 40,939; Oct. 11; Gaz. vol. 159; p. 474.

E. G. Webster and Sons. (See Mischler, William, assignor.)

E. R. Thomas Motor Company. (See Thomas, Edwin L., assignor.)

Ebeling, Phillip, assignor to The Fostoria Glass Company, Moundsville, W. Va. Candle-lamp. No. 40,462; Jan. 25; Gaz. vol. 150; p. 1024.

Alphabetical list of patentees of designs—Continued.

Eberhard Faber Pencil Company. (See Owens, Clarence M., assignor.)
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Phonograph-cabinet. No. 40,527; Feb. 22; Gaz. vol. 151; p. 994.
Edward Koch & Company. (See Meier, Arthur E., assignor.)
Elcome, William E., Philadelphia, Pa., assignor to Western Electric Company, New York, N. Y. Font of type. No. 40,862; Sept. 6; Gaz. vol. 158; p. 213.
Electric Renovator Manufacturing Company. (See Harker, Charles E., assignor.)
Elliot, William A., Yonkers, N. Y. Carpet. No. 41,014; Nov. 29; Gaz. vol. 160; p. 1255.
Elliott, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 40,884; Sept. 13; Gaz. vol. 158; p. 470.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 40,940–1; Oct. 11; Gaz. vol. 159; p. 475.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Talking-machine cabinet. No. 41,008; Nov. 29; Gaz. vol. 160; p. 1253.
Ernst & Co., Carl. (See Evans, Evan A., assignor.)
Estes, Webster C., New York, N. Y. Wooden box. No. 40,467; Jan. 25; Gaz. vol. 150; p. 1025.
Ettlinger, Louis, assignor to American Lithographic Company, New York, N. Y. Cigar-band. No. 40,576; Mar. 15; Gaz. vol. 152; p. 714.
Evans, Evan A., Chicago, Ill., assignor to C. Ernst & Co., New York, N. Y. Picture-mount. Nos. 40,974–7; Nov. 8; Gaz. vol. 160; p. 478.
Evans, Howard S., assignor to Macbeth-Evans Glass Company, Pittsburg, Pa. Lamp-shade. Nos. 40,553–5; Mar. 1; Gaz. vol. 152; p. 213.
Everest, David C., Wausau, Wis., assignor to Marathon Paper Mills Company. Wrapping-paper. No. 40,992; Nov. 15; Gaz. vol. 160; p. 761.
Fahys & Co., Joseph. (See Habensack, Frederick, assignor.)
Fairbanks Company, The. (See Nelson, William, assignor.)
Farrand Company, The. (See Wirts, Stephen W., assignor.)
Feeley, William J. (See Mullan, Elder, assignor.)
Fetterly, Charles L., assignor to Kilmarnock Textile Manufacturing Co., Philadelphia, Pa. Rug. No. 40,470; Jan. 25; Gaz. vol. 150; p. 1026.
Finberg, Joseph, assignor to Finberg Manufacturing Company, Attleboro, Mass. Bracelet or similar article. No. 40,581; Mar. 22; Gaz. vol. 152; p. 939.
Finberg Manufacturing Company. (See Finberg, Joseph, assignor.)
Finley, Dicks & Co. (See Loeffler, Louis, assignor.)
Fishel, Henry W., assignor to Fishel, Nessler & Company, New York, N. Y. Jewelry ornament. No. 40,988; Nov. 15; Gaz. vol. 160; p. 760.
Fishel, Henry W., assignor to H. W. Fishel and T. H. Fishel, New York, N. Y. Jewelry ornament. Nos. 40,886–9; Sept. 20; Gaz. vol. 158; pp. 683–4.
Fishel, Nessler & Company. (See Fishel, Henry W., assignor.)
Fishel, Theodore H., *et al.* (See Fishel, Henry W., assignor.)
Forrester, Charles, Jersey City, N. J., assignor to Bigelow Carpet Company. Rug. No. 40,864; Sept. 6; Gaz. vol. 158; p. 213.
Foster, John R., Arlington, Mass. Frame for pictures, mirrors, or similar articles. No. 40,994; Nov. 22; Gaz. vol. 160; p. 1024.
Foster, John R., Arlington, Mass. Frame for mirrors, pictures, or similar articles. No. 41,003; Nov. 29; Gaz. vol. 160; p. 1252.
Fostoria Glass Company. (See Ebeling, Phillip, assignor.)
Fostoria Glass Company. (See Heedy, John J., assignor.)
Fox, Charles, assignor to L. Schlesinger, New York, N. Y. Tray. No. 40,590; Mar. 29; Gaz. vol. 152; p. 1189.
Frank Wood Manufacturing Company. (See Hinchliffe, William, assignor.)
Frank Wood Manufacturing Company. (See Wood, Frank, assignor.)
Fritchle Automobile & Battery Company. (See Fritchle, Oliver P., assignor.)
Fritchle, Oliver P., assignor to Fritchle Automobile & Battery Company, Denver, Colo. Vehicle-body. No. 41,053; Dec. 20; Gaz. vol. 161; p. 738.
Fuller, Albert. (See Hiering and Fuller.)
Fuller-Warren Co., The. (See Coke, George M., assignor.)
Furste, Henry, Cincinnati, Ohio, assignor to The Boydell Bros. White Lead & Color Co., Detroit, Mich. Label-blank. No. 40,959; Nov. 1; Gaz. vol. 160; p. 243.
Futterman, Harry, assignor to New York Couch & Auto Lamp Co., New York, N. Y. Automobile-lamp. No. 40,463; Jan. 25; Gaz. vol. 150; p. 1025.
Gaffney, Michael W. (See Lang and Gaffney.)
Gair, Robert, New York, N. Y. Doily. Nos. 40,450–4; Jan. 18; Gaz. vol. 150; pp. 809–10.
Gair, Robert, New York, N. Y. Paper wing for boxes. No. 40,478; Feb. 1; Gaz. vol. 151; p. 177.
Gair, Robert, New York, N. Y. Box-mat. No. 40,511; Feb. 15; Gaz. vol 151; p. 714.
Gair, Robert, New York, N. Y. Doily. Nos. 40,535–6; Feb. 22; Gaz. vol. 151; p. 995.
Gair, Robert, New York, N. Y. Doily. No. 40,798; July 26; Gaz. vol. 156; p. 1048.
Gair, Robert, New York, N. Y. Doily. No. 40,820; Aug. 9; Gaz. vol. 157; p. 469.
Gair, Robert, New York, N. Y. Box-mat. No. 40,827; Aug. 16; Gaz. vol. 157; p. 739.
Gair, Robert, New York, N. Y. Doily. No. 40,879; Sept. 13; Gaz. vol. 158; p. 469.
Gair, Robert, New York, N. Y. Box-mat. Nos. 40,916–17; Sept. 27; Gaz. vol. 158; p. 872.
Gair, Robert, New York, N. Y. Doily. No. 40,958; Oct. 25; Gaz. vol. 159; p. 980.
Gair, Robert, New York, N. Y. Doily. Nos. 41,020–1; Nov. 29; Gaz. vol. 160; p. 1256.
Gamble, Joseph W., Philadelphia, Pa. Exhaust-steam separator-casing. No. 41,060; Dec. 27; Gaz. vol. 161; p. 1029.
Gardiner, William H., New York, N. Y. Lamp-casing. No. 40,995; Nov. 22; Gaz. vol. 160; p. 1024.
Gattiker, Robert, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Nos. 40,899–900; Sept. 20; Gaz. vol. 158; p. 686.
Gaube, Ernest W., Cleveland, Ohio. Jug. No. 40,815; Aug. 9; Gaz. vol. 157; p. 468.
Gaunt, Sidney C., assignor to Barnhart Brothers & Spindler, Chicago, Ill. Font of type. Nos. 40,617–18; Apr. 5; Gaz. vol. 153; p. 256.
Gaynor, Thomas F., New York, N. Y. Badge. No. 40,516; Feb. 22; Gaz. vol. 151; p. 992.
Germin, Joseph, Chicago, Ill. Electric table decoration. No. 41,010; Nov. 29; Gaz. vol. 160; p. 1254.
Gillinder & Sons. (See Booth, Kraft, assignor.)
Gill and Company. (See Kappler, Jacob, assignor.)
Gillinder & Sons. (See Magon and Winchester, assignors.)
Gillinder & Sons. (See Van Doren, Francis J., assignor.)
Gleason, Marshall W., New York, N. Y., assignor to The Gleason-Tiebout Glass Company. Artificial-light shade. Nos. 40,656–7; Apr. 26; Gaz. vol. 153; pp. 1060–1.
Gleason-Tiebout Glass Company, The. (See Gleason, Marshall W., assignor.)
Gleason-Tiebout Glass Company, The. (See Perring, Charles E., assignor.)
Gleason-Tiebout Glass Company, The. (See Schilling, Paul, assignor.)
Golden, Charles D., Chicago, Ill. Toilet-rack. No. 40,687; May 10; Gaz. vol. 154; p. 496.
Golden, Charles D., Chicago, Ill. Clothes-rack. Nos. 40,688–9; May 10; Gaz. vol. 154; pp. 496–7.
Goodwin, John E., Stoke-upon-Trent, assignor to Josiah Wedgwood & Sons Ld., Etruria, England. Plate or similar article. No. 40,736; June 21; Gaz. vol. 155; p. 783.
Gorham Manufacturing Company. (See Codman, William C., assignor.)
Gothberg, Herman, Roselle Park, N. J. Chandelier-trimming. No. 40,660; Apr. 26; Gaz. vol. 153; p. 1061.
Gothberg, Herman, Roselle Park, N. J. Ceiling-plate. No. 40,936; Oct. 11; Gaz. vol. 159; p. 474.
Graves, William E., St. Louis, Mo. Platter. No. 40,521; Feb. 22; Gaz. vol. 151; p. 993.
Gredelue, Adrien, New York, N. Y., assignor to L. Bessière, Paris, France. Drinking vessel. Nos. 40,673–6; May 3; Gaz. vol. 154; pp. 234–5.
Gredelue, Adrien, New York, N. Y., assignor to L. Bessiere, Paris, France. Drinking vessel. No. 40,999; Nov. 29; Gaz. vol. 160; p. 1251.
Green, Joseph M., Covington, Tenn. Watch-fob. No. 40,831; Aug. 23; Gaz. vol. 157; p. 985.
Griffin, Robert, New York, N. Y. Wall-paper. No. 40,819; Aug. 9; Gaz. vol. 157; p. 469.
Gruenfeldt, Emil, assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Automobile-body. No. 40,681; May 3; Gaz. vol. 154; p. 236.
Gudeman, Leo, New York, N. Y. Illuminated rosette. No. 40,740; June 21; Gaz. vol. 155; p. 784.
Guillott, James W., Buffalo, N. Y. Ruler. No. 40,812; Aug. 2; Gaz. vol. 157; p. 193.
Gulick, Edward J., Mishawaka, Ind. Automobile-body. No. 40,639; Apr. 12; Gaz. vol. 153; p. 527.
Gunzenhauser, Christian. (See Henderson, William C., assignor.)
Gutermann, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Leg for chafing-dishes, percolators, or similar articles. No. 40,522; Feb. 22; Gaz. vol. 151; p. 993.
Gutermann, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Leg for coffee-urn, chafing-dish, or similar article. No. 40,642; Apr. 19; Gaz. vol. 153; p. 805.
H. P. Sinclaire & Company. (See Sinclaire, Henry P., assignor.)
Haas, Frank A., New York, N. Y., assignor to Matthew J. Whittall, Worcester, Mass. Rug. No. 40,537; Feb. 22; Gaz. vol. 151; p. 996.

Alphabetical list of patentees of designs—Continued.

Habensack, Frederick, Sag Harbor, assignor to J. Fahys & Co., New York, N. Y. Handle for spoons, forks, or similar articles. No. 40,431; Jan. 11; Gaz. vol. 150; p. 551.
Hacker, Emanuel M., New York, N. Y. Plaiting. Nos. 41,047–8; Dec. 13; Gaz. vol. 161; p. 514.
Haddorff Piano Company. (See Abramson, Alfred C., assignor.)
Hails, Daniel T., Montgomery, Ala. Doll. No. 41,022; Nov. 29; Gaz. vol. 160; p. 1256.
Haley, Reuben, Crafton, Pa., assignor to The Cambridge Glass Company, Cambridge, Ohio. Glass vessel. No. 40,591; Mar. 29; Gaz. vol. 152; p. 1189.
Haley, Reuben, Beaver, Pa., assignor to Jefferson Glass Company, Follansbee, W. Va. Flower-holder. No. 41,025; Dec. 6; Gaz. vol. 161; p. 252.
Haley, Reuben, Beaver, assignor to Westmoreland Specialty Company, Grapeville, Pa. Sugar-bowl. No. 41,034; Dec. 13; Gaz. vol. 161; p. 512.
Hall, Ivory L., Vinal Haven, Me. Match-holder. No. 40,477; Feb. 1; Gaz. vol. 151; p. 176.
Handel, Philip J., Meriden, Conn. Lamp-shade. No. 40,721; June 7; Gaz. vol. 155; p. 287.
Hardwick & Magee Company. (See Ulmer, Harry, assignor.)
Hardy, John G., assignor to The W. J. Feeley Co., Providence, R. I. Badge or similar article. No. 40,822; Aug. 16; Gaz. vol. 157; p. 738.
Harker, Charles E., Parnassus, assignor to Electric Renovator Manufacturing Company, Pittsburg, Pa. Casing for pneumatic cleaning-machines. No. 40,848; Aug. 30; Gaz. vol. 157; p. 1226.
Harper, Thomas, Union Hill, N. J. License-panel bracket-arm for automobiles. No. 40,984; Nov. 8; Gaz. vol. 160; p. 480.
Hart, Walter H., assignor to Stanley Works, New Britain, Conn. Hinge-leaf. No. 40,594; Mar. 29; Gaz. vol. 152; p. 1190.
Harvey, John G., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Top-plate and oven for gas-stoves. No. 40,690; May 10; Gaz. vol. 154; p. 497.
Haskins, Virginia R., Philadelphia, Pa. Wall-paper or similar fabric. No. 40,723; June 7; Gaz. vol. 155; p. 287.
Hatfield, Christopher, New York, N. Y. Lamp-stand. No. 40,604; Apr. 5; Gaz. vol. 153; p. 254.
Haviland, Charles E., Paris, France. Covered dish or similar article. No. 40,520; Feb. 22; Gaz. vol. 151; p. 992.
Hawkes, Thomas G., Corning, N. Y. Glass vessel or similar article. No. 41,000; Nov. 29; Gaz. vol. 160; p. 1251.
Hays, Frank A., Philadelphia, Pa. Pattern for a doll. No. 40,749; June 28; Gaz. vol. 155; p. 1026.
Heedy, John J., assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel. No. 40,672; May 3; Gaz. vol. 154; p. 234.
Henderson, Alexander, assignor to Manhattan Rubber Manufacturing Company, Passaic, N. J. Mat. No. 41,013; Nov. 29; Gaz. vol. 160; p. 1255.
Henderson, William C., Baltimore, Md., assignor to C. Gunzenhauser, Lancaster, Pa. Label-blank. No. 40,568; Mar. 8; Gaz. vol. 152; p. 469.
Herbert, Sigmund, New York, N. Y. Glass dish. No. 40,806; Aug. 2; Gaz. vol. 157; p. 192.
Heyl, Erik, Buffalo, N. Y. Automobile-body. No. 40,922; Sept. 27; Gaz. vol. 158; p. 873.
Hibschman, Jacob S., Strausstown, Pa. Whiffletree-ring screw. No. 40,731; June 14; Gaz. vol. 155; p. 538.
Hick, Ernest, Pittsfield, Mass. Unitary chair and table. No. 41,011; Nov. 29; Gaz. vol. 160; p. 1254.
Hiering, Christian, and A. Fuller, assignors to The J. E. Mergott Company, Newark, N. J. Bag-frame. No. 40,648; Apr. 19; Gaz. vol. 153; p. 805.
Hill, Eugene H., assignor to Robert Carson & Sons, Philadelphia, Pa. Rug. No. 40,993; Nov. 15; Gaz. vol. 160; p. 761.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 40,549; Mar. 1; Gaz. vol. 152; p. 212.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 40,619; Apr. 12; Gaz. vol. 153; p. 522.
Hinchliffe, William, Valley Falls, R. I., assignor to Frank Wood Manufacturing Company. Trimming. No. 40,966; Nov. 1; Gaz. vol. 160; p. 244.
Hirschfeld, Leo, New York, N. Y., assignor to Saalberg Company. Carton. No. 40,728; June 14; Gaz. vol. 155; p. 538.
Hochstadter, Gustav, Chicago, Ill. Label-blank. No. 40,435; Jan. 11; Gaz. vol. 150; p. 552.
Hochstadter, Sigmund, New York, N. Y. Bottle. No. 40,426; Jan. 4; Gaz. vol. 150; p. 251.
Hoff, Bruno, Treptow-Berlin, assignor to Chemische Werke vormals Dr. Heinrich Byk, Act.-Ges., Charlottenburg, Germany. Bottle. No. 40,666; Apr. 26; Gaz. vol. 153; p. 1062.
Hohlfeld, Herman L., Philadelphia, Pa. Hammock. No. 40,797; July 26; Gaz. vol. 156; p. 1048.
Holloway, John W., New York, N. Y. Clock-frame. No. 40,425; Jan. 4; Gaz. vol. 150; p. 251.
Holloway, John W., New York, N. Y. Clock-frame. No. 40,502; Feb. 8; Gaz. vol. 151; p. 433.
Homan, Joseph T., assignor to The Homan Mfg. Company, Cincinnati, Ohio. Altar sick-call outfit. No. 40,429; Jan. 11; Gaz. vol. 150; p. 551.
Homan Mfg. Company. (See Homan, Joseph T., assignor.)
Howard, James B., Indianapolis, Ind. Heating-stove. No. 40,680; May 3; Gaz. vol. 154; p. 236.
Howard, James B., Indianapolis, Ind. Heating-stove. No. 40,764; July 12; Gaz. vol. 156; p. 517.
Hoyt, Matthew L., assignor to D. H. Burrell & Company, Little Falls, N. Y. Frame for centrifugal machines. No. 41,009; Nov. 29; Gaz. vol. 160; p. 1254.
Hudson, Marshall A., Syracuse, N. Y. Badge. No. 40,455; Jan. 25; Gaz. vol. 150; p. 1023.
Hunkins, Carl B., Billings, Mont. Emblem. No. 40,517; Feb. 22; Gaz. vol. 151; p. 992.
Hunt, Ozello R., assignor to Vail and Hunt Company, Chicago, Ill. Bedstead-rail. No. 40,847; Aug. 30; Gaz. vol. 157; p. 1226.
International Silver Co. (See Dean, John R., assignor.)
International Silver Co. (See Kintz, Robert R., assignor.)
International Silver Co. (See Pretat, Frederick E., assignor.)
International Silver Co. (See Strohhaker, Gustav, assignor.)
International Silver Company. (See Berry, George H., assignor.)
International Silver Company. (See Lashar, Thomas B., assignor.)
Ireland, Alfred, New York, N. Y. Ornament for garments. No. 40,682; May 3; Gaz. vol. 154; p. 236.
Irons and Russell Company. (See Thatcher, Charles L., assignor.)
J. Pouyat Company, The. (See Ziegler, Charles, assignor.)
J. E. Mergott Company, The. (See Hiering and Fuller, assignors.)
Jameson, William A., Niagara Falls, N. Y. Spoon, fork, or similar article. No. 40,458; Jan. 25; Gaz. vol. 150; p. 1024.
Jameson, William A., Niagara Falls, N. Y. Spoon or similar article. No. 40,550; Mar. 1; Gaz. vol. 152; p. 212.
Jameson, William A., Niagara Falls, N. Y. Spoon or similar article. Nos. 41,054–7; Dec. 27; Gaz. vol. 161; p. 1028.
Jankiewitz, Michael, Manistee, Mich. Picture-frame. No. 40,806; Aug. 2; Gaz. vol. 157; p. 192.
Jefferson Glass Company. (See Haley, Reuben, assignor.)
Jefferson Glass Company. (See Schnelbach, Harry A., assignor.)
Jenks, Barton P., assignor to Wm. B. Durgin Co., Concord, N. H. Handle for spoons, forks, or similar articles. No. 40,971; Nov. 8; Gaz. vol. 160; p. 477.
Joseph, Nathan, San Francisco, Cal. Emblem. No. 41,023; Dec. 6; Gaz. vol. 161; p. 252.
Josiah Wedgwood & Sons. (See Goodwin, John E., assignor.)
Jungers, Clement, Streator, Ill. Sheet-glass. No. 40,845; Aug. 30; Gaz. vol. 157; p. 1226.
Kappler, Jacob, Philadelphia, Pa. Lamp shade and reflector. No. 40,503; Feb. 8; Gaz. vol. 151; p. 433.
Kappler, Jacob, assignor to Gill & Company, Philadelphia, Pa. Lamp shade or reflector. Nos. 40,605–6; Apr. 5; Gaz. vol. 153; p. 254.
Kappler, Jacob, assignor to Gill & Company, Philadelphia, Pa. Lamp-shade. No. 40,624; Apr. 12; Gaz. vol. 153; p. 523.
Kappler, Jacob, assignor to Gill and Company, Philadelphia, Pa. Lamp shade or reflector. No. 40,645; Apr. 19; Gaz. vol. 153; p. 805.
Kappler, Jacob, assignor to Gill and Company, Philadelphia, Pa. Lamp shade or reflector. No. 40,727; June 14; Gaz. vol. 155; p. 538.
Kappler, Jacob, assignor to Gill & Company, Philadelphia, Pa. Lamp shade or reflector. Nos. 40,919–20; Sept. 27; Gaz. vol. 158; p. 872.
Karpeles, Jacob, New York, N. Y. Muff. No. 40,918; Sept. 27; Gaz. vol. 158; p. 872.
Keach, Walter E., Cumberland, R. I. Lace edging. No. 40,828; Aug. 16; Gaz. vol. 157; p. 739.
Keeble, Charles S., and R. B. Wakeley, Philadelphia, Pa. Shade-roller bracket. No. 41,036; Dec. 13; Gaz. vol. 161; p. 512.
Keen, Morris, Philadelphia, Pa. Cabinet for talking-machines. No. 40,699; May 17; Gaz. vol. 154; p. 821.
Kell, Henry M. (See Wright and Kell.)
Keller, Robert, Detroit, Mich. Ink-well. No. 40,777; July 19; Gaz. vol. 156; p. 777.
Kemp, Horatio S., Milwaukee, Wis. Buckle-shield. No. 40,432; Jan. 11; Gaz. vol. 150; p. 551.
Kempshall, Iva B., Boston, Mass. Automobile-tire. No. 40,570; Mar. 8; Gaz. vol. 152; p. 470.
Kempshall, Iva B., Boston, Mass. Automobile-tire. No. 40,586; Mar. 22; Gaz. vol. 152; p. 940.
Kennedy, Thomas R., and E. J. King, assignors to Cooperative Foundry Company, Rochester, N. Y. Stove. No. 40,614; Apr. 5; Gaz. vol. 153; p. 255.
Killian, Lorenz, Brooklyn, assignor to Palmer & Embury Mfg. Co., New York, N. Y. Chair. No. 40,469; Jan. 25; Gaz. vol. 150; p. 1026.

Alphabetical list of patentees of designs—Continued.

Killian, Lorenz, Brooklyn, assignor to Palmer & Embury Mfg. Co., New York, N. Y. Chair. No. 41,012; Nov. 29; Gaz. vol. 160; p. 1454.
Kilmarnock Textile Manufacturing Co. (See Fetterly, Charles L., assignor.)
King, Edward J. (See Kennedy and King.)
Kintz, Robert R., assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,704; May 24; Gaz. vol. 154; p. 1090.
Kirchner, Walter J., San Francisco, Cal. Hat and coat hook. No. 40,578; Mar. 15; Gaz. vol. 152; p. 715.
Koken, Ernest E., St. Louis, Mo.; W. F. Koken, executor. Barber's chair. No. 40,679; May 3; Gaz. vol. 154; p. 236.
Koken, Walter F., executor. (See Koken, Ernest E.)
Kolb, Gustave F., assignor to Mauser Manufacturing Company, Mount Vernon, N. Y. Handle for spoons, forks, or similar articles. Nos. 40,654–5; Apr. 26; Gaz. vol. 153; p. 1060.
Korzinek, John, Passaic, N. J., assignor to Wayman & Wood Company, Pittsburg, Pa. Textile fabric. Nos. 40,514–15; Feb. 15; Gaz. vol. 151; p. 714.
Krebs, William H., New Bedford, Mass. Dish. No. 41,027; Dec. 6; Gaz. vol. 161; p. 252.
Kühnl, Carl, Weiden, Germany. Plate or similar article. No. 40,501; Feb. 8; Gaz. vol. 151; p. 433.
Kurz, Charles F., Cleveland, Ohio. Prescription-case. No. 40,700; May 17; Gaz. vol. 154; p. 821.
L. Straus & Sons. (See Davies, Benjamin F., assignor.)
Landcraft, Sydney P., Quincy, Ill. Stove. No. 40,897; Sept. 20; Gaz. vol. 158; p. 686.
Landcraft, Sydney P., Quincy, Ill. Stove. No. 40,923; Sept. 27; Gaz. vol. 158; p. 873.
Landers, Frary & Clark. (See Smith, Charles F., assignor.)
Lane, John W., Newark, assignor to Supreme Court of the Foresters of America, Jersey City, N. J. Emblem. No. 40,996; Nov. 29; Gaz. vol. 160; p. 1251.
Lang, Charles E., and M. W. Gaffney, assignors to The Rauch & Lang Carriage Company, Cleveland, Ohio. Vehicle-body. No. 41,038; Dec. 13; Gaz. vol. 161; p. 513.
Laridon, Louise B., New York, N. Y. Sewing-stand. No. 40,861; Sept. 6; Gaz. vol. 158; p. 212.
Larson, Lars A., Elgin, Ill. Ring. No. 40,928; Oct. 4; Gaz. vol. 159; p. 229.
Lashar, Thomas B., assignor to International Silver Company, Bridgeport, Conn. Handle for spoons, forks, or similar articles. No. 40,933; Oct. 11; Gaz. vol. 159; p. 473.
Latham, Anna M., Portland, Me. Fork. No. 40,670; May 3; Gaz. vol. 154; p. 234.
Laurin, Joseph, Attleboro, Mass. Table utensil. No. 40,842; Aug. 30; Gaz. vol. 157; p. 1225.
Lederer, Joseph, New York, N. Y. Gas-lamp casing. No. 40,585; Mar. 22; Gaz. vol. 152; p. 940.
Lehman, Max R., Quincy, Ill. Stove. Nos. 40,924–5; Sept. 27; Gaz. vol. 158; p. 873.
Leominster Button Company. (See Prevear, Edward C., assignor.)
Levy, Isadore J., New York, N. Y. Hand-bag. No. 40,461; Jan. 25; Gaz. vol. 150; p. 1024.
Levy, Isadore J., New York, N. Y. Hand-bag. Nos. 40,565–6; Mar. 8; Gaz. vol. 152; p. 469.
Liebmann, Rudolph, New York, N. Y. Button. No. 40,829; Aug. 23; Gaz. vol. 157; p. 984.
Lloyd Co., W. H. S. (See Wild, Harry W., assignor.)
Loeffler, Louis, New York, N. Y., assignor to Finley, Dicks & Co., Ltd., New Orleans, La. Sheet-metal plate. No. 40,608; Apr. 5; Gaz. vol. 153; p. 254.
Lowe, Thaddeus. (See Minier and Lowe.)
Lunt, George C., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Handle for spoons, forks, or similar articles. No. 40,788; July 26; Gaz. vol. 156; p. 1046.
Luten, Daniel B., Indianapolis, Ind. Railing-block. No. 40,667; Apr. 26; Gaz. vol. 153; p. 1062.
Luton, Charles B. (See De Freeze, John, assignor.)
Macbeth-Evans Glass Company. (See Evans, Howard S., assignor.)
Macbeth-Evans Glass Company. (See Young, Lorin W., assignor.)
Magon, Carl S., and W. W. Winchester, assignors to Gillinder & Sons, Inc., Philadelphia, Pa. Decorative sheet-glass. No. 40,794; July 26; Gaz. vol. 156; p. 1047.
Manhattan Rubber Manufacturing Company. (See Henderson, Alexander, assignor.)
Manning, Bowman & Company. (See Gutermann, Edward A., assignor.)
Marathon Paper Mills Company. (See Everest, David C., assignor.)
Marc, Mickel, Bloomington, Ill. Bookcase, writing-desk, and photo-displaying cabinet. No. 40,436; Jan. 11; Gaz. vol. 150; p. 552.
Mauser Manufacturing Company. (See Kolb, Gustave F., assignor.)
May, Mitchell, Brooklyn, N. Y. Casing for vacuum-cleaners. No. 40,756; July 5; Gaz. vol. 156; p. 244.
McAfee, Hugh, Pittsburg, assignor to Consolidated Lamp & Glass Co., Coraopolis, Pa. Lamp-shade. No. 40,712; May 31; Gaz. vol. 154; p. 1391.
McAfee, Hugh, Pittsburg, assignor to Consolidated Lamp & Glass Co., Coraopolis, Pa. Shade. No. 40,895; Sept. 20; Gaz. vol. 158; p. 685.
McCann, Felix H., New York, N. Y. Shrine. No. 40,857; Sept. 6; Gaz. vol. 158; p. 212.
McClarence, Matthew, and L. B. Thurlow, Muncie, Ind. Sign-plate. No. 40,480; Feb. 1; Gaz. vol. 151; p. 177.
McManus, George, New York, N. Y. Statuette. No. 40,457; Jan. 25; Gaz. vol. 150; p. 1024.
Meakin & Ridgway. (See Wadsworth, John W., assignor.)
Meeker, George R. (See Allen and Meeker.)
Meier, Arthur E., assignor to Edward Koch & Company, Chicago, Ill. Cut-glass dish. No. 40,671; May 3; Gaz. vol. 154; p. 234.
Merry, John, New York, N. Y., assignor to The Bigelow Carpet Company. Rug. No. 40,471; Jan. 25; Gaz. vol. 150; p. 1026.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 40,513; Feb. 15; Gaz. vol. 151; p. 714.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 40,649–52; Apr. 19; Gaz. vol. 153; p. 806.
Merry, John, New York, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 40,786–7; July 19; Gaz. vol. 156; p. 779.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,799; July 26; Gaz. vol. 156; p. 1049.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,855; Aug. 30; Gaz. vol. 157; p. 1228.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,906–7; Sept. 20; Gaz. vol. 158; p. 688.
Meyer, Max C., New York, N. Y. Cuff-link or similar article. No. 40,448; Jan. 18; Gaz. vol. 150; p. 809.
Meyer, Max C., New York, N. Y. Jewel-setting for finger-rings or similar articles. No. 40,702; May 24; Gaz. vol. 154; p. 1089.
Miller, August C., assignor to Reed & Barton Corporation, Taunton, Mass. Spoon or fork. No. 40,496; Feb. 8; Gaz. vol. 151; p. 431.
Miller, John J., Newark, N. J. Plate or similar article. No. 40,973; Nov. 8; Gaz. vol. 160; p. 477.
Milligan, George, Davenport, Iowa. Pincushion. No. 40,965; Nov. 1; Gaz. vol. 160; p. 244.
Minier, George H., and T. Lowe, South Pasadena, Cal. Heater-casing. Nos. 40,979–81; Nov. 8; Gaz. vol. 160; p. 479.
Mischler, William, Brooklyn, N. Y., assignor to E. G. Webster and Sons. Border-section. No. 40,609; Apr. 5; Gaz. vol. 153; p. 255.
Mitchell, Joseph, Jersey City, N. J. Lamp-support or similar article. No. 40,646; Apr. 19; Gaz. vol. 153; p. 805.
Moffat, John B., Lawrence Park, Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 40,869; Sept. 6; Gaz. vol. 158; p. 214.
Moore, David H., Seattle, Wash. Vase. No. 40,584; Mar. 22; Gaz. vol. 152; p. 940.
Moore, David P., and S. B. Pack, Washington, D. C. Casing for portable suction cleaning-machines. No. 40,748; June 28; Gaz. vol. 155; p. 1026.
Morton, William M., Darvel, Scotland. Carpet. Nos. 40,439–47; Jan. 11; Gaz. vol. 150; pp. 552–4.
Morton, William M., Darvel, Scotland. Carpet. No. 40,580; Mar. 15; Gaz. vol. 152; p. 715.
Morton, William M., Darvel, Scotland. Carpet. Nos. 40,870–2; Sept. 6; Gaz. vol. 158; p. 214–15.
Moss, Anna J., Collingswood, N. J. Badge or similar article. No. 40,560; Mar. 8; Gaz. vol. 152; p. 468.
Mouton, Paul, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Nos. 40,880–1; Sept. 13; Gaz. vol. 158; p. 469.
Mouton, Paul, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Nos. 40,901–4; Sept. 20; Gaz. vol. 158; p. 687.
Mullan, Elder, Rome, Italy, assignor to W. J. Feeley, Providence, R. I. Medal. No. 40,821; Aug. 16; Gaz. vol. 157; p. 738.
Müller, August, Strassburg, Germany. Box. No. 40,506; Feb. 8; Gaz. vol. 151; p. 434.
Mulligan, Jennie S. (See Mulligan, Mary A. and J. S.)
Mulligan, Mary A. and J. S., St. Paul, Minn. Apron. No. 40,967; Nov. 1; Gaz. vol. 160; p. 244.
Munhall, Burton D., Cleveland, assignor to The Union Metal Manufacturing Company, Canton, Ohio. Street-lamp. No. 40,737; June 21; Gaz. vol. 155; p. 784.
Mygatt, Otis A., New York, N. Y. Shade or similar article for artificial lights. No. 40,607; Apr. 5; Gaz. vol. 153; p. 254.
Mygatt, Otis A., New York, N. Y. Reflector or similar article. No. 40,623; Apr. 12; Gaz. vol. 153; p. 523.
Mygatt, Otis A., New York, N. Y. Shade or reflector or similar article. No. 40,659; Apr. 26; Gaz. vol. 153; p. 1061.
Mygatt, Otis A., New York, N. Y. Shade, reflector, or similar article. Nos. 40,713–14; May 31; Gaz. vol. 154; p. 1391.

Alphabetical list of patentees of designs—Continued.

Myland, Christian, Philadelphia, Pa. Knife and fork holder. No. 40,746; June 28; Gaz. vol. 155; p. 1026.
N. J. Rich & Company. (See Sampliner, Samuel S., assignor.)
National Casket Company. (See Wetmore, Clayton F., assignor.)
Nelson, William, Binghamton, assignor to The Fairbanks Company, New York, N. Y. Hand-wheel. No. 40,717; May 31; Gaz. vol. 154; p. 1391.
Nerney, George E., Attleboro, Mass. Fraternal emblem. No. 41,024; Dec. 6; Gaz. vol. 161; p. 252.
Nerney, George E., Attleboro, Mass. Badge or jewel. No. 41,049; Dec. 20; Gaz. vol. 161; p. 737.
Neuwohner, Albert, San Francisco, Cal. Stamp. No. 40,875; Sept. 13; Gaz. vol. 158; p. 468.
New Jersey Patent Company. (See Pooley, Edward F., assignor.)
New York Couch & Auto Lamp Co. (See Futterman, Harry, assignor.)
Nielsen, Ernest A., and F. C. Petersen, East Boston, Mass. Candlestick or similar article. No. 40,778; July 19; Gaz. vol. 156; p. 778.
Noe, William R., Jr., assignor to W. R. Noe, East Orange, N. J. Hat-pin holder. No. 40,449; Jan. 18; Gaz. vol. 150; p. 809.
North & Judd Manufacturing Company. (See Anderson, Charles H., assignor.)
Northwood, Charles O., assignor to C. Dorflinger & Sons, Incorporated, White Mills, Pa. Glass goblet or similar article. Nos. 40,497–9; Feb. 8; Gaz. vol. 151; p. 432.
Northwood, Charles O., assignor to C. Dorflinger & Sons, Incorporated, White Mills, Pa. Glass goblet or similar article. No. 40,876; Sept. 13; Gaz. vol. 158; p. 468.
Numan, Charles H., New York, N. Y. Inkstand. No. 40,582; Mar. 22; Gaz. vol. 152; p. 939.
O'Neil, James H., Cranston, R. I. Emblem. No. 40,561; Mar. 8; Gaz. vol. 152; p. 468.
Oakley, Clifford H., Trenton, N. J. Rubber binding for matting ends or similar articles. No. 40,863; Sept. 6; Gaz. vol. 158; p. 213.
Oehrle Brothers Company. (See Oehrle, Franklin W., assignor.)
Oehrle, Franklin W., assignor to Oehrle Brothers Company, Philadelphia, Pa. Woven edging. No. 40,647. Apr. 19; Gaz. vol. 153; p. 805.
Olsson, Anna, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 40,782; July 19; Gaz. vol. 156; p. 779.
Oneida Community. (See Allen, Grosvenor N., assignor.)
Onondaga Pottery Company. (See Ross, Edith, assignor.)
Osborne, Charles, New York, N. Y. Handle for spoons, forks, and similar articles. No. 40,669; May 3; Gaz. vol. 154; p. 233.
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Handle for a spoon, fork, or similar article. No. 40,745; June 28; Gaz. vol. 155; p. 1026.
Owens, Clarence M., Weehawken, N. J., assignor to Eberhard Faber Pencil Company, Broklyn, N. Y. Display-rack. No. 40,612; Apr. 5; Gaz. vol. 153; p. 255.
Pack, Samuel B. (See Moore and Pack.)
Paige, Willis H., Kansas City, Mo. Pen-rack and paper-clip holder. No. 41,026; Dec. 6; Gaz. vol. 161; p. 252.
Pairpoint Corporation, The. (See Silsbee, Harrison A., assignor.)
Palmer & Embury Mfg. Co. (See Killian, Lorenz, assignor.)
Pantasote Leather Company, The. (See Bonner, Douglas E., assignor.)
Pascucci, Vincent, Corona, N. Y. Horn. No. 40,698; May 17; Gaz. vol. 154; p. 821.
Patno, Nelson H., Boston, Mass. Bottle. No. 40,500; Feb. 8; Gaz. vol. 151; p. 432.
Pease, Jesse M., Buffalo, N. Y. Clock-case. No. 40,663; Apr. 26; Gaz. vol. 153; p. 1062.
Pemberton, Charles B., Whittier, Cal. Badge. No. 40,951; Oct. 25; Gaz. vol. 159; p. 979.
Perring, Charles E., New York, N. Y., assignor to The Gleason-Tiebout Glass Company. Artificial-light shade. No. 40,706; May 24; Gaz. vol. 154; p. 1090.
Perry, William A., assignor to M. J. Whittall, Worcester, Mass. Rug. No. 40,538; Feb. 22; Gaz. vol. 151; p. 996.
Peters, Charles L., Grand Rapids, Mich. Piano fall-board. No. 40,587; Mar. 22; Gaz. vol. 152; p. 940.
Petersen, Frederick C. (See Nielsen and Petersen.)
Pettavel, Jean, Fleurier, Switzerland. Bridge-plate for watch-movements. No. 40,813; Aug. 9; Gaz. vol. 157; p. 468.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 40,546; Feb. 22; Gaz. vol. 151; p. 998.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 40,692; May 10; Gaz. vol. 154; p. 497.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 40,719; May 31; Gaz. vol. 154; p. 1392.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 40,768–74; July 12; Gaz. vol. 156; pp. 518–19.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 40,783–5; July 19; Gaz. vol. 156; p. 779.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,039–46; Dec. 13; Gaz. vol. 161; pp. 513–14.
Phillips & Clark Stove Co. (See Davids, Joseph, assignor.)
Phipps, Lawrence C., Jr., Denver, Colo. Radiator-cap for motor-vehicles. No. 40,664; Apr. 26; Gaz. vol. 153; p. 1062.
Pierce-Arrow Motor Car Company, The. (See Dawley, Herbert M., assignor.)
Pilon, Paul, Chicago, Ill. Post for furniture or similar articles. No. 40,983; Nov. 8; Gaz. vol. 160; p. 480.
Pohlmann, Richard A., Jefferson City, Mo. Watch-charm. No. 40,694; May 17; Gaz. vol. 154; p. 820.
Pooley, Edward F., Philadelphia, Pa., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-cabinet. Nos. 40,816–17; Aug. 9; Gaz. vol. 157; pp. 468–9.
Prager Co., The. (See Zilling, Emil, assignor.)
Pretat, Frederick E., Waterbury, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,620; Apr. 12; Gaz. vol. 153; p. 522.
Prevear, Edward C., assignor to Leominster Button Company, Leominster, Mass. Bandeau. No. 40,759; July 12; Gaz. vol. 156; p. 516.
Pryor, Thomas F., Jr., Newark, N. J. Watch-fob or similar article. No. 40,598; Apr. 5; Gaz. vol. 153; p. 252.
Pujols, Alexander, Fort Screven, Ga. Shaving-set holder. No. 40,622; Apr. 12; Gaz. vol. 153; p. 523.
Purple, Mayo S., East Hampton, Conn. Bell and support therefor. No. 40,954; Oct. 25; Gaz. vol. 159; p. 979.
Queen City Silver Company. (See Zinser, Paul R., assignor.)
R. Wallace & Sons Mfg. Co. (See Brown, Leslie A., assignor.)
R. Wallace & Sons Mfg. Co. (See Hillbom, Henrik, assignor.)
Radcliffe, James A., Brooklyn, N. Y. Back of playing-cards. No. 40,575; Mar. 15; Gaz. vol. 152; p. 714.
Rauch & Lang Carriage Company, The. (See Lang and Gaffney, assignors.)
Rea, Benedetto, Boston, Mass. Ice-cream cornucopia. No. 40,739; June 21; Gaz. vol. 155; p. 784.
Reed & Barton. (See Miller, August C., assignor.)
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,545; Feb. 22; Gaz. vol. 151; p. 998.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,637; Apr. 12; Gaz. vol. 153; p. 526.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,852–3; Aug. 30; Gaz. vol. 157; pp. 1227–8.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,865; Sept. 6; Gaz. vol. 158; p. 213.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,908–9; Sept. 20; Gaz. vol. 158; p. 688.
Rhinelander Refrigerator Co. (See Colonel, Joseph, assignor.)
Richards, Edward T., Chicago, Ill. Statuette. No. 40,621; Apr. 12; Gaz. vol. 153; p. 523.
Richardson, Frank C. A., Springfield, Mass. Doll. No. 40,722; June 7; Gaz. vol. 155; p. 287.
Ripley & Company. (See Ripley and Schmunk, assignors.)
Ripley, Daniel C., and C. E. Schmunk, assignors to Ripley & Company, Pittsburg, Pa. Jar. Nos. 41,001–2; Nov. 29; Gaz. vol. 160; p. 1252.
Ritter, Frank S., Philadelphia, Pa., assignor to United States Postal Card Advertising Company. Post-card. No. 40,754; July 5; Gaz. vol. 156; p. 243.
Robert Carson & Sons. (See Hill, Eugene H., assignor.)
Rochester Stamping Company. (See Swan, Alfred H. S., assignor.)
Rock, George N., Branford, Conn. Game-board or similar article. No. 40,915; Sept. 27; Gaz. vol. 158; p. 871.
Rogers, Lunt & Bowlen Company. (See Bowlen, William C., assignor.)
Rogers, Lunt & Bowlen Company. (See Lunt, George C., assignor.)
Rollings, Albert S., Cambridge, Mass., assignor to Boston-1915 (Inc.). Button. No. 40,705; May 24; Gaz. vol. 154; p. 1090.
Root, Wilber L., Cincinnati, Ohio. Air-pump casing. No. 40,579; Mar. 15; Gaz. vol. 152; p. 715.
Ross, Edith, Davenport, Iowa, assignor to Onondaga Pottery Company, Syracuse, N. Y. Plate. No. 40,602; Apr. 5; Gaz. vol. 153; p. 253.
Ross, James D., Seattle, Wash. Lamp-post. No. 40,809; Aug. 2; Gaz. vol. 157; p. 193.
Rouquart, Leonard, New York, N. Y. Covered dish. No. 40,643; Apr. 19; Gaz. vol. 153; p. 805.
Rowe, John S., Buffalo, N. Y. Lavatory. No. 41,059; Dec. 27; Gaz. vol. 161; p. 1029.
Saalberg Company. (See Hirschfeld, Leo, assignor.)

Alphabetical list of patentees of designs—Continued.

Safe Padlock and Hardware Company, The. (See Buchmiller and Schwartz, assignors.)
Sampliner, Samuel S., assignor to N. J. Rich & Company, Cleveland, Ohio. Neckscarf or muffler. Nos. 41,031–2; Dec. 6; Gaz. vol. 161; p. 253.
Samstag, Henry F., New York, N. Y. Doll. No. 40,986; Nov. 8; Gaz. vol. 160; p. 480.
Sandner, Heinrich, Union Hill, N. J. Musical-instrument pedal. No. 40,935; Oct. 11; Gaz. vol. 159; p. 474.
Sanford, Andrew J., Newark, Ohio. Light-shade. No. 40,427; Jan. 4; Gaz. vol. 150; p. 251.
Sanford, Andrew J., Newark, Ohio. Light-shade. Nos. 40,473–6; Jan. 25; Gaz. vol. 150; p. 1027.
Sanford, Andrew J., Newark, Ohio. Light-shade. No. 40,479; Feb. 1; Gaz. vol. 151; p. 177.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Glass receptacle. No. 40,460; Jan. 25; Gaz. vol. 150; p. 1024.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Molasses-pitcher. Nos. 40,600–1; Apr. 5; Gaz. vol. 153; p. 253.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Glass vessel. No. 40,686; May 10; Gaz. vol. 154; p. 496.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Jar. No. 40,837; Aug. 23; Gaz. vol. 157; p. 986.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Light-shade. Nos. 40,943–4; Oct. 18; Gaz. vol. 159; p. 733.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Light-shade. No. 40,978; Nov. 8; Gaz. vol. 160; p. 479.
Sargent & Company. (See Stevens, William E., assignor.)
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 40,438; Jan. 11; Gaz. vol. 150; p. 552.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 40,512; Feb. 15; Gaz. vol. 151; p. 714.
Sauer, Emil G., Richmond Hill, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 40,765–7; July 12; Gaz. vol. 156; pp. 517–18.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,800–2; July 26; Gaz. vol. 156; p. 1049.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,866; Sept. 6; Gaz. vol. 158; p. 213.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,926; Sept. 27; Gaz. vol. 158; p. 874.
Sauereisen, Christian F., Millvale borough, Pa. Paperweight. No. 40,583; Mar. 22; Gaz. vol. 152; p. 939.
Schenck, Ernest G. H., New York, N. Y. Cut stone. No. 40,693; May 17; Gaz. vol. 154; p. 820.
Schickerling, Alfred, New York, N. Y. Badge. No. 40,968; Nov. 8; Gaz. vol. 160; p. 477.
Schilling, Paul, New York, N. Y., assignor to The Gleason-Tiebout Glass Company. Artificial-light shade. No. 40,658; Apr. 26; Gaz. vol. 153; p. 1061.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,854; Aug. 30; Gaz. vol. 157; p. 1228.
Schlesinger, Leo. (See Fox, Charles, assignor.)
Schmunk, Charles E. (See Ripley and Schmunk.)
Schnelbach, Harry A., Crafton, Pa., assignor to Jefferson Glass Company, Follansbee, W. Va. Lamp-shade. Nos. 40,893–4; Sept. 20; Gaz. vol. 158; p. 685.
Schnelbach, Harry A., Crafton, Pa., assignor to Jefferson Glass Company, Follansbee, W. Va. Lamp-shade. No. 41,005; Nov. 29; Gaz. vol. 160; p. 1253.
Schnelbach, Harry A., Crafton, Pa., assignor to Jefferson Glass Company, Follansbee, W. Va. Lamp-shade. No. 41,035; Dec. 13; Gaz. vol. 161; p. 512.
Schopf, Abraham, Philadelphia, assignor to American Caramel Company, York, Pa. Chocolate drop. No. 40,615; Apr. 5; Gaz. vol. 153; p. 256.
Schraubstadter, William A., St. Louis, Mo. Font of type. No. 40,718; May 31; Gaz. vol. 154; p. 1392.
Schultz, Herman E., Jr., St. Louis, Mo. Fabric. No. 40,482; Feb. 1; Gaz. vol. 151; p. 177.
Schwalb, Henry W., New York, N. Y. Hat-pin. No. 40,640; Apr. 19; Gaz. vol. 153; p. 804.
Schwarz, Ernest. (See Buchmiller and Schwarz.)
Seaman, Charles O., Des Moines, Iowa. Whisk-broom and brush holder. No. 40,567; Mar. 8; Gaz. vol. 152; p. 469.
Searls Manufacturing Company. (See Taylor, Harry B., assignor.)
Seevers, Byron V., Oskaloosa, Iowa. Automobile-lamp. No. 40,808; Aug. 2; Gaz. vol. 157; p. 193.
Sharp, Clayton H., White Plains, N. Y. Reflector. No. 40,644; Apr. 19; Gaz. vol. 153; p. 805.
Shepard, Harry W., New York, N. Y. Medal or similar article. No. 40,969; Nov. 8; Gaz. vol. 160; p. 477.
Shepard, Park J., Akron, Ohio. Clock or watch support. No. 40,592; Mar. 29; Gaz. vol. 152; p. 1189.
Sheppard, Erle R., New York, N. Y. Card-case or similar article. No. 40,859; Sept. 6; Gaz. vol. 158; p. 212.
Shutt, Albert, Topeka, Kans. Body for stringed musical instruments. No. 40,564; Mar. 8; Gaz. vol. 152; p. 468.
Silbert, Gustaf I., and C. E. Carlson, Chicago, Ill. Picture-frame. No. 40,877; Sept. 13; Gaz. vol. 158; p. 468.
Silsbee, Harrison A., assignor to The Pairpoint Corporation, New Bedford, Mass. Glass vessel. No. 40,760; July 12; Gaz. vol. 156; p. 516.
Silver, Hyman, Brooklyn, N. Y. Refrigerator. No. 40,528; Feb. 22; Gaz. vol. 151; p. 994.
Simplex Piano Player Co. (See Brown, Theodore P., assignor.)
Sinclaire, Henry P., assignor to H. P. Sinclaire & Company, Corning, N. Y. Glass vessel or similar article. No. 40,603; Apr. 5; Gaz. vol. 153; p. 253.
Sins, Emile, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 40,839; Aug. 23; Gaz. vol. 157; p. 986.
Sins, Emile, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 40,882; Sept. 13; Gaz. vol. 158; p. 469.
Sins, Emile, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 40,905; Sept. 20; Gaz. vol. 158; p. 688.
Sins, Emile, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Nos. 40,937–8; Oct. 11; Gaz. vol. 159; p. 474.
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Percolator-cover. No. 40,934; Oct. 11; Gaz. vol. 159; p. 474.
Smith, Joseph R., assignor to Waterbury Button Company, Waterbury, Conn. Buckle. No. 40,697; May 17; Gaz. vol. 154; p. 820.
Spalding, Albert G., Point Loma, Cal. Plaque. Nos. 40,834–5; Aug. 23; Gaz. vol. 157; p. 985.
Spalding, Albert G., Point Loma, Cal. Trophy. Nos. 40,929–30; Oct. 4; Gaz. vol. 159; pp. 229–30.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,927; Sept. 27; Gaz. vol. 158; p. 874.
Spring, William A., New York, N. Y. Carpet. No. 41,015; Nov. 29; Gaz. vol. 160; p. 1255.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,541–4; Feb. 22; Gaz. vol. 151; p. 997.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,867; Sept. 6; Gaz. vol. 158; p. 214.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,910–11; Sept. 20; Gaz. vol. 158; p. 689.
Spring, William A., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,634–6; Apr. 12; Gaz. vol. 153; p. 526.
Spring, William A., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,849–51; Aug. 30; Gaz. vol. 157; p. 1227.
Spring, William A., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,883; Sept. 13; Gaz. vol. 158; p. 470.
Springfield Metallic Casket Company, The. (See Allen, Francis K., assignor.)
Stafford, Frederick S., Dallas, Tex. Automobile-lamp. No. 40,955; Oct. 25; Gaz. vol. 159; p. 979.
Standard Thermometer Company. (See Ames, Henry A., assignor.)
Standard Vacuum Cleaner Company, The. (See Baxter and Barrett, assignors.)
Stanley Works. (See Hart, Walter H., assignor.)
Stecker, Alfred J., assignor to F. Wardell, Detroit, Mich. Casing for pneumatic cleaning-machines. No. 40,982; Nov. 8; Gaz. vol. 160; p. 479.
Stees, Charley H., Philadelphia, Pa. Badge. No. 40,573; Mar. 15; Gaz. vol. 152; p. 714.
Steimer, Theodore C., Pittsburg, Pa. Glass dish. No. 40,990; Nov. 15; Gaz. vol. 160; p. 760.
Stevens, William E., assignor to Sargent & Company, New Haven, Conn. Casket-trimming. Nos. 40,792–3; July 26; Gaz. vol. 156; p. 1047.
Stone, Frank P., Chicago, Ill. Automobile-body. No. 41,061; Dec. 27; Gaz. vol. 161; p. 1029.
Strohhaker, Gustav, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon. No. 40,684; May 10; Gaz. vol. 154; p. 496.
Strohhaker, Gustav, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,997; Nov. 29; Gaz. vol. 160; p. 1251.
Strohhaker, Gustav, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,424; Jan. 4; Gaz. vol. 150; p. 251.
Supreme Court of the Foresters of America. (See Lane, John W., assignor.)
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Crumb-scraper or similar article. No. 40,459; Jan. 25; Gaz. vol. 150; p. 1024.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Chafing-dish stand. No. 40,823; Aug. 16; Gaz. vol. 157; p. 738.
Sweetland, Charles A., Chicago, Ill. Trade-coupon. No. 40,616; Apr. 5; Gaz. vol. 153; p. 256.
Tarras, Louis C., Winona, Minn. Street-lamp. Nos. 40,509–10; Feb. 15; Gaz. vol. 151; pp. 713–14.

Alphabetical list of patentees of designs—Continued.

Taunton, Ethel, New York, N. Y. Paper seal-wafer. No. 40,661; Apr. 26; Gaz. vol. 153; p. 1061.
Taylor, Harry B., East Orange, assignor to Searls Manufacturing Company, Newark, N. J. Holder for tumblers or other articles. No. 40,931; Oct. 4; Gaz. vol. 159; p. 230.
Thatcher, Charles L., assignor to Irons and Russell Company, Providence, R. I. .Emblem. No. 40,932; Oct. 11; Gaz. vol. 159; p. 473.
Thayer, Emma R. L., Hastings-upon-Hudson, N. Y., assignor to Bruguier Chemical Co., Newark, N. J. Can. No. 40,952; Oct. 25; Gaz. vol. 159; p. 979.
Thayer, Emma R. L., Hastings-upon-Hudson, N. Y., assignor to Bruguier Chemical Co., Newark, N. J. Jar. No. 40,953; Oct. 25; Gaz. vol. 159; p. 979.
Thayer, Emma R. L., Hastings-upon-Hudson, N. Y., assignor to Bruguier Chemical Co., Newark, N. J. Can. No. 41,028; Dec. 6; Gaz. vol. 161; p. 252.
Thomas, Edwin L., assignor to E. R. Thomas Motor Company, Buffalo, N. Y. Automobile-body. No. 40,757; July 5; Gaz. vol. 156; p. 244.
Thompson, Ralph C., Attleboro, Mass. Badge. No. 40,456; Jan. 25; Gaz. vol. 150; p. 1024.
Thompson, Ralph C., Attleboro, Mass. Badge. No. 40,720; June 7; Gaz. vol. 155; p. 287.
Thurlow, Lawrence B. (See McClarence and Thurlow.)
Tilden-Thurber Company. (See Webster, John E., assignor.)
Tinnerman, George A., Cleveland, Ohio. Gas and coal range. No. 40,638; Apr. 12; Gaz. vol. 153; p. 527.
Toledo Computing Scale Company. (See De Vilbiss, Allen, Jr., assignor.)
Townsend, Edwin O., New York, N. Y. Monument. No. 41,062; Dec. 27; Gaz. vol. 161; p. 1029.
Travis, John M., St. Louis, Mo. Dispensing-font. No. 40,985; Nov. 8; Gaz. vol. 160; p. 480.
Turner, George L., Taunton, Mass. Back of hair-brushes or similar articles. No. 40,970; Nov. 8; Gaz. vol. 160; p. 477.
Ulmer, Harry, assignor to Hardwick & Magee Company, Philadelphia, Pa. Carpet or rug. Nos. 40,627–8; Apr. 12; Gaz. vol. 153; p. 524.
Union Metal Manufacturing Company, The. (See Munhall, Burton D., assignor.)
United Lamp and Burner Company. (See Blount, Nelson, assignor.)
United States Postal Card Advertising Company. (See Ritter, Frank S., assignor.)
United States Sanitary Manufacturing Company. (See Danver, James H., assignor.)
Updegrave, William M., Johnstown, Pa. Label. No. 40,577; Mar. 15; Gaz. vol. 152; p. 715.
Vail and Hunt Company. (See Hunt, Ozello R., assignor.)
Van Buren, Jafew S., Albany, N. Y., assignor to Abram Cox Stove Company, Philadelphia, Pa. Heating-stove. No. 40,962; Nov. 1; Gaz. vol. 160; p. 243.
Van Doren, Francis J., Lansdowne, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Glass spindle. Nos. 40,523–5; Feb. 22; Gaz. vol. 151; p. 993.
Venon, Jules H., New York, N. Y. Goblet or similar article. No. 40,710; May 31; Gaz. vol. 154; p. 1390.
Venon, Jules H., New York, N. Y. Plate or similar article. No. 40,711; May 31; Gaz. vol. 154; p. 1390.
Venon, Jules H., New York, N. Y. Plate or similar article. Nos. 40,743–4; June 28; Gaz. vol. 155; pp. 1025–6.
Victor Talking Machine Company. (See English, John C., assignor.)
Voncanon, William A., Mooresville, Ind. Chair. No. 40,588; Mar. 22; Gaz. vol. 152; p. 941.
W. J. Feeley Co., The. (See Hardy, John G., assignor.)
Wadsworth, John W., Stoke-upon-Trent, England, assignor to Meakin & Ridgway, New York, N. Y. Plate or similar article. No. 41,051; Dec. 20; Gaz. vol. 161; p. 737.
Wakeley, Robert B. (See Keeble and Wakeley.)
Walsh, Arthur Q., New York, N. Y. Cigar or cigarette holder. No. 40,677; May 3; Gaz. vol. 154; p. 235.
Walsh, Edward J., St. Louis, Mo. Sheet-glass. Nos. 40,795–6; July 26; Gaz. vol. 156; p. 1048.
Wanner, Albert, Jr., Hoboken, N. J. Furniture-brace. No. 40,572; Mar. 8; Gaz. vol. 152; p. 470.
Ward, Mattie R., Leesville, La. Curtain-pole. No. 40,571; Mar. 8; Gaz. vol. 152; p. 470.
Wardell, Fred. (See Stecker, Alfred J., assignor.)
Waterbury Button Company. (See Smith, Joseph R., assignor.)
Waters, William T., Jr., Atlanta, Ga. Chair. No. 40,613; Apr. 5; Gaz. vol. 153; p. 255.
Wayman & Wood Company. (See Korzinek, John, assignor.)
Wear, Frank F., San Francisco, Cal. Show-case. No. 40,818; Aug. 9; Gaz. vol. 157; p. 469.
Wear, Frank F., San Francisco, Cal. Coffee-counter. No. 40,896; Sept. 20; Gaz. vol. 158; p. 685.
Webb C. Ball Watch Company, The. (See Ball, Sidney Y., assignor.)
Webster, John, East Providence, assignor to Tilden-Thurber Company, Providence, R. I. Clothes-brush. No. 40,789; July 26; Gaz. vol. 156; p. 1047.
Welles, Richard H., Kenosha, Wis. Headlight. No. 40,844; Aug. 30; Gaz. vol. 157; p. 1226.
Welles, Richard H., Kenosha, Wis. Headlight. No. 40,991; Nov. 15; Gaz. vol. 160; p. 760.
Welles, Richard H., assignor to The Badger Brass Manufacturing Company, Kenosha, Wis. Vehicle-lamp. No. 40,747; June 28; Gaz. vol. 155; p. 1026.
Welles, Richard H., assignor to The Badger Brass Manufacturing Company, Kenosha, Wis. Headlight. No. 41,052; Dec. 20; Gaz. vol. 161; p. 738.
Western Electric Company. (See Elcome, William E., assignor.)
Westgard, Anthony L., New York, N. Y. Emblem. No. 40,734; June 21; Gaz. vol. 155; p. 783.
Westmoreland Specialty Company. (See Haley, Reuben, assignor.)
Wetmore, Clayton F., Jersey City, N. J., assignor to National Casket Company, New York, N. Y. Name-block or saddle for caskets, coffins, or similar articles. Nos. 40,532–4; Feb. 22; Gaz. vol. 151; p. 995.
Weyl, David F., New York, N. Y. Trimming. No. 40,589; Mar. 22; Gaz. vol. 152; p. 941.
Wheaton, Charles N., Warren, R. I. Cabinet or similar article. No. 40,468; Jan. 25; Gaz. vol. 150; p. 1025.
Whiting Manufacturing Company. (See Osborne, Charles, assignor.)
Whittall, Matthew J. (See Haas, Frank A., assignor.)
Whittall, Matthew J. (See Perry, William A., assignor.)
Wild, Harry W., Chiswick, England, assignor to W. H. S. Lloyd Co., New York, N. Y. Wall-paper. Nos. 40,483–94; Feb. 1; Gaz. vol. 151; pp. 177–9.
Willetts, William R., assignor to American Pin Company, Waterbury, Conn. Bowl for waste-water traps. No. 40,780; July 19; Gaz. vol. 156; p. 778.
Williams, Richard L., Birmingham, Ala. Indicator-dial. No. 40,662; Apr. 26; Gaz. vol. 153; p. 1061.
Winchester, William W. (See Magon and Winchester.)
Wirts, Stephen W., assignor to The Farrand Company, Detroit, Mich. Casing for player-pianos. No. 40,504; Feb. 8; Gaz. vol. 151; p. 433.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,539–40; Feb. 22; Gaz. vol. 151; p. 996.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 40,629; Apr. 12; Gaz. vol. 153; p. 524.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,630–3; Apr. 12; Gaz. vol. 153; p. 525.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,856; Aug. 30; Gaz. vol. 157; p. 1228.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 40,868; Sept. 6; Gaz. vol. 158; p. 214.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 40,912–13; Sept. 20; Gaz. vol. 158; p. 689.
Wm. B. Durgin Co. (See Jenks, Barton P., assignor.)
Wood, Frank, Valley Falls, R. I., assignor to Frank Wood Manufacturing Company. Trimming. Nos. 40,948–50; Oct. 18; Gaz. vol. 159; p. 734.
Wray, Park Q., Chicago, Ill. Lamp. No. 40,738; June 21; Gaz. vol. 155; p. 784.
Wright, Frank F., and H. M. Kell, Aurora, Ill. Bracket for shade-rollers and curtain-poles. No. 40,481; Feb. 1; Gaz. vol. 151; p. 177.
Wright, Spencer D., Philadelphia, Pa. Gimp. No. 40,724; June 7; Gaz. vol. 155; p. 287.
Young, Lorin W., assignor to Macbeth-Evans Glass Co., Pittsburg, Pa. Lamp-shade. Nos. 40,556–7; Mar. 1; Gaz. vol. 152; p. 214.
Zehnder, Peter J., Dayton, Ohio. Lobster-cracker. No. 40,611; Apr. 5; Gaz. vol. 153; p. 255.
Ziegler, Charles, Limoges, France, assignor to The J. Pouyat Company, New York, N. Y. Covered dish or similar article. No. 40,508; Feb. 15; Gaz. vol. 151; p. 713.
Ziegler, Charles, Limoges, France, assignor to The J. Pouyat Company, New York, N. Y. Covered dish or similar article. No. 40,551; Mar. 1; Gaz. vol. 152; p. 213.
Zilling, Emil, Leipzig, Germany, assignor to The Prager Co., New York, N. Y. Wall-paper. No. 40,547; Feb. 22; Gaz. vol. 151; p. 998.
Zinser, Paul R., assignor to The Cincinnati Coffin Company, Cincinnati, Ohio. Lug for coffins or caskets. No. 40,665; Apr. 26; Gaz. vol. 153; p. 1062.
Zinser, Paul R., assignor to The Cincinnati Coffin Company, Cincinnati, Ohio. Lug for caskets or coffins. No. 40,758; July 5; Gaz. vol. 156; p. 244.
Zinser, Paul R., assignor to The Cincinnati Coffin Company, Cincinnati, Ohio. Corner-plate for burial-caskets. No. 40,779; July 19; Gaz. vol. 156; p. 778.
Zinser, Paul R., assignor to Cincinnati Coffin Co., Cincinnati, Ohio. Casket-handle. No. 40,811; Aug. 2; Gaz. vol. 157; p. 193.
Zinser, Paul R., assignor to The Cincinnati Coffin Company, Cincinnati, Ohio. Lug for caskets or coffins. No. 40,947; Oct. 18; Gaz. vol. 159; p. 734.
Zinser, Paul R., assignor to Queen City Silver Company, Cincinnati, Ohio. Dish. No. 40,753; July 5; Gaz. vol. 156; p. 243.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. Burdsal Company, The, Indianapolis, Ind. Flat-finish paint for inside use. No. 77,017; Mar. 1; Gaz. vol. 152; p. 227.

A. Haspe Co., Omaha, Nebr. Picture-frames. No. 76,734; Feb. 15; Gaz. vol. 151; p. 725.

A. Karlson, Metall- & Maskin-Aktiebolag, Stockholm, Sweden. Pulverizing-machines. No. 79,061; Aug. 2; Gaz. vol. 157; p. 204.

A. Klipstein & Company, New York, N. Y. Quebracho tanning extract. No. 77,695; May 3; Gaz. vol. 154; p. 247.

A. Moll Grocer Co., St. Louis, Mo. Certain foods. No. 77,430; Apr. 12; Gaz. vol. 153; p. 541.

A. Schrader's Son, Incorporated, New York, N. Y. Fluid-pressure gages, indicators, and regulators. No. 79,620; Sept. 20; Gaz. vol. 158; p. 699.

A. Schreiber Brewing Company, Buffalo, N. Y. Bottled beer. No. 80,443; Dec. 20; Gaz. vol. 161; p. 750.

A. Stein & Company, Chicago, Ill. Hose-supporters. No. 78,361; June 7; Gaz. vol. 155; p. 303.

A. Steinhardt & Bro., New York, N. Y. Hair goods. No. 79,798; Oct. 4; Gaz. vol. 159; p. 239.

A. Steinhardt & Bro., New York, N. Y. Certain pins and needles. No. 80,389; Dec. 13; Gaz. vol. 161; p. 526.

A. Weiskittel & Son Company, Baltimore, Md. Stoves and ranges. No. 78,560; June 21; Gaz. vol. 155; p. 797.

A. B. Andrews Company, New York, N. Y. Hosiery. No. 77,431; Apr. 12; Gaz. vol. 153; p. 541.

A. B. Andrews Company, New York, N. Y. Hosiery. No. 78,057; May 31; Gaz. vol. 154; p. 1403.

A. B. McCrillis & Son Inc., Providence, R. I. Wheat-flour. No. 76,424; Jan. 18; Gaz. vol. 150; p. 821.

A. B. McCrillis & Son Inc., Providence, R. I. Wheat-flour. No. 77,114; Mar. 8; Gaz. vol. 152; p. 485.

A. B. McCrillis & Son Inc., Providence, R. I. Wheat-flour. No. 78,618; June 28; Gaz. vol. 155; p. 1038.

A. B. McCrillis & Son, Inc., Providence, R. I. Wheat-flour. Nos. 79,140–2; Aug. 9; Gaz. vol. 157; p. 482.

A. E. Mandel Paper Co., The, Sandusky, Ohio. Wrapping-paper, card and straw board. No. 77,082; Mar. 8; Gaz. vol. 152; p. 484.

A. F. Wanner & Co., Chicago, Ill. Printers' furniture. No. 77,504; Apr. 19; Gaz. vol. 153; p. 817.

A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. No. 77,018; Mar. 1; Gaz. vol. 152; p. 227.

A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. No. 79,796; Oct. 4; Gaz. vol. 159; p. 239.

A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. No. 79,938; Oct. 18; Gaz. vol. 159; p. 744.

A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. No. 80,244; Nov. 22; Gaz. vol. 160; p. 1034.

A. H. Heisey & Co., Inc., Newark, Ohio. Molasses-jugs, salt, pepper, and sugar shakers. No. 76,733; Feb. 15; Gaz. vol. 151; p. 725.

A. H. and C. B. Alling Co., The, Derby, Conn. Hosiery. No. 78,853; July 19; Gaz. vol. 156; p. 793.

A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Stoves and ranges. No. 76,613; Feb. 1; Gaz. vol. 151; p. 190.

A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Stoves and ranges. No. 79,288; Aug. 23; Gaz. vol. 157; p. 996.

A. P. Ward Brooder Co., Calistoga, Cal. Brooders. No. 76,748; Feb. 15; Gaz. vol. 151; p. 725.

A. T. Nye and Son Company, Marietta, Ohio. Heating and cooking stoves and ranges. No. 79,147; Aug. 9; Gaz. vol. 157; p. 482.

Abdulla & Co., Ld., London, England. Cigarettes and smoking-tobacco. No. 79,623; Sept. 20; Gaz. vol. 158; p. 699.

Absopure Baking Powder Company, San Francisco, Cal. Baking-powder. No. 79,542; Sept. 20; Gaz. vol. 158; p. 697.

Acker, Merrall & Condit Co., New York, N. Y. Moselle wine. No. 78,563; June 28; Gaz. vol. 155; p. 1037.

Acker, Merrall & Condit Company, New York, N. Y. Certain foods. No. 80,165; Nov. 16; Gaz. vol. 160; p. 769.

Acme-Evans Company, Indianapolis, Ind. Wheat-flour. No. 77,505; Apr. 19; Gaz. vol. 153; p. 817.

Acme Match Co., Roanoke, Va. Matches. No. 77,281; Mar. 29; Gaz. vol. 152; p. 1219.

Acme Remedy Company, Piqua, Ohio. Remedies for certain diseases. No. 76,412; Jan. 11; Gaz. vol. 150; p. 566.

Acme White Lead & Color Works, Detroit, Mich. Colors in oil. No. 79,637; Sept. 27; Gaz. vol. 158; p. 879.

Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Medicines and pharmaceutical preparations. No. 78,758; July 12; Gaz. vol. 156; p. 533.

Actien-Gesellschaft Hackerbräu, Munich, Germany. Beer. No. 78,564; June 28; Gaz. vol. 155; p. 1037.

Actien-Gesellschaft Hackerbräu, Munich, Germany. Beer. No. 79,420; Sept. 6; Gaz. vol. 158; p. 224.

Adam Budge, New York, N. Y. Monthly magazines. No. 80,343; Dec. 13; Gaz. vol. 161; p. 525.

Adams, Byron S., Washington, D. C. Certain printed matter. No. 80,015; Nov. 1; Gaz. vol. 160; p. 253.

Adams & Elting Company, Chicago, Ill. Calcimine. Nos. 76,663–4; Feb. 8; Gaz. vol. 151; p. 445.

Adams & Elting Company, Chicago, Ill. Polishes. No. 80,203; Nov. 22; Gaz. vol. 160; p. 1033.

Advance Novelty Candy Manufacturing Company, New York, N. Y. Candies. No. 77,890; May 17; Gaz. vol. 154; p. 831.

Aeolian Company, The, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Pianos, piano-players, and perforated music. No. 77,432; Apr. 12; Gaz. vol. 153; p. 541.

Aeolian Company, The, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Pianos, piano-players, and music-sheets. No. 77,975; May 24; Gaz. vol. 154; p. 1103.

Aeolian Company, The, Meriden, Conn., and New York, N. Y. Player-pianos, piano-players, and perforated music-sheets. No. 78,759; July 12; Gaz. vol. 156; p. 533.

Aerators Limited, London, England. Metal receptacles for compressed or liquefied gas. No. 79,949; Oct. 25; Gaz. vol. 159; p. 987.

Aetna Doll and Toy Company, New York, N. Y. Dolls. No. 78,390; June 14; Gaz. vol. 155; p. 549.

Aetna Hosiery Company, Worcester, Mass. Hosiery. No. 78,669; July 5; Gaz. vol. 156; p. 253.

Agraria, Fabrik landw. Artikel Ernst Rust, Dresden, Germany. Insecticide. No. 76,706; Feb. 8; Gaz. vol. 151; p. 447.

Ahrens Brothers, Wilmington, N. C. Veterinary remedy. No. 77,351; Mar. 29; Gaz. vol. 152; p. 1221.

Akerman & Tuffley, North San Diego, Cal. Canned olives. No. 79,713; Oct. 4; Gaz. vol. 159; p. 237.

Akin-Erskine Milling Co., Evansville, Ind. Wheat-flour. No. 76,578; Feb. 1; Gaz. vol. 151; p. 189.

Akin-Erskine Milling Company, Evansville, Ind. Self-rising flour. No. 80,100; Nov. 8; Gaz. vol. 160; p. 489.

Akron Belting Company, The, Akron, Ohio. Leather belting. No. 79,459; Sept. 13; Gaz. vol. 158; p. 477.

Aktiebolaget B. A. Hjorth & Co., Stockholm, Sweden. Furnaces, forges, lamps, boilers, and similar articles. No. 79,424; Sept. 6; Gaz. vol. 158; p. 224.

Aktiebolaget L. M. Ericsson & Co., Stockholm, Sweden. Electric clocks. No. 77,783; May 10; Gaz. vol. 154; p. 509.

Aktieselskabet Bryn Tændstikfabrik, Bryn, Norway. Safety-matches. Nos. 80,297–8; Dec. 6; Gaz. vol. 161; p. 263.

Alabama-Georgia Syrup Co., Montgomery, Ala. Cane and corn compound syrup. No. 76,348; Jan. 11; Gaz. vol. 150; p. 565.

Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 76,425; Jan. 18; Gaz. vol. 150; p. 821.

Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 77,599; Apr. 26; Gaz. vol. 153; p. 1077.

Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 77,976; May 24; Gaz. vol. 154; p. 1103.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. No. 78,034; May 24; Gaz. vol. 154; p. 1104.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. No. 78,760; July 12; Gaz. vol. 156; p. 533.

Albemarle Paper Manufacturing Company, The, Richmond, Va. Blotting-paper. No. 77,115; Mar. 8; Gaz. vol. 152; p. 485.

Albert, Cyrus J., Chicago, Ill. Expense-books. No. 80,453; Dec. 27; Gaz. vol. 161; p. 1039.

Albert Dickinson Company, The, Chicago, Ill. Bean and pea seed, field and grass seeds, and seed-grains. No. 79,655; Sept. 27; Gaz. vol. 158; p. 879.

Albert Mackie Grocer Company, Ltd., New Orleans, La. Certain foods. No. 80,232; Nov. 22; Gaz. vol. 160; p. 1033.

Alberty, Ada M., Seattle, Wash. Milk-modifier composed chiefly of grain. No. 79,950; Oct. 25; Gaz. vol. 159; p. 987.

Alden S. Swan and Co., New York, N. Y. Lubricating greases and oils. No. 78,550; June 21; Gaz. vol. 155; p. 797.

Alexis Witte Cutlery Co., New York, N. Y. Razors and scissors. No. 77,433; Apr. 12; Gaz. vol. 153; p. 541.

Alfalfa Milling Company, Hobart, Okla. Horse feed. No. 80,259; Nov. 29; Gaz. vol. 160; p. 1267.

Alfred H. Smith Co., New York, N. Y. Brushes. No. 78,210; May 31; Gaz. vol. 154; p. 1407.

Alphabetical list of registrants of trade-marks—Continued.

Alhambra Natural Mineral Water Co., The, Martinez, Cal. Certain beverages. No. 77,412; Apr. 5; Gaz. vol. 153; p. 268.
Allcock Manufacturing Company, Ossining and New York, N. Y. Medicinal preparations. No. 80,454; Dec. 27; Gaz. vol. 161; p. 1039.
Allegretti, B., Chicago, Ill. Chocolate candy. No. 77,122; Mar. 15; Gaz. vol. 152; p. 727.
Allen Brothers Company, Omaha, Nebr. Flavoring extracts. No. 76,876; Feb. 22; Gaz. vol. 151; p. 1009.
Allen & Hanburys, Limited, London, England. Lactic-acid-bacilli tablets. No. 77,784; May 10; Gaz. vol. 154; p. 509.
Allen & Wheeler Company, The, Troy, Ohio. Wheat-flour. No. 77,282; Mar. 29; Gaz. vol. 152; p. 1219.
Allen & Wheeler Company, The, Troy, Ohio. Wheat-flour. No. 79,544; Sept. 20; Gaz. vol. 158; p. 697.
Alleyn, Henry M., London, England. Metal casters for furniture. No. 77,891; May 17; Gaz. vol. 154; p. 831.
Alliance Clay Product Company, The, Alliance, Ohio. Paving-blocks. No. 80,016; Nov. 1; Gaz. vol. 160; p. 253.
Alling, Johan A., Stockholm, Sweden. Pens and nibs. No. 79,883; Oct. 18; Gaz. vol. 159; p. 743.
Allison Manufacturing Company, Attleboro, Mass. Jewelry. No. 78,295; June 7; Gaz. vol. 155; p. 301.
Allmen, Christian von, Louisville, Ky. Certain foods. No. 78,664; June 28; Gaz. vol. 155; p. 1039.
Allyne Brass Foundry Company, The, Cleveland, Ohio. Metal-purifying compositions. No. 79,383; Sept. 6; Gaz. vol. 158; p. 223.
Alma Manufacturing Company of Baltimore City, Baltimore, Md. Buckles for clothing. No. 78,478; June 21; Gaz. vol. 155; p. 795.
Alpenburg, Victor von, West Hoboken, N. J. Antiseptic sheets for medicinal and surgical use. No. 79,951; Oct. 25; Gaz. vol. 159; p. 987.
Althouse, Wilson D., Philadelphia, Pa. Coal. No. 78,155; May 31; Gaz. vol. 154; p. 1406.
Alwin Manufacturing Company, Chicago, Ill. Children's carriages, go-carts, and sleds. No. 76,749; Feb. 15; Gaz. vol. 151; p. 725.
Alwin Manufacturing Company, Chicago, Ill. Children's carriages, go-carts, &c. No. 80,397; Dec. 20; Gaz. vol 161; p. 749.
Amalgamated Paint Company, Jersey City, N. J. Marine paints. No. 77,977; May 24; Gaz. vol. 154; p. 1103.
Ambler, Thomas M., St. Louis, Mo. Razor-sharpeners. No. 80,336; Dec. 13; Gaz. vol. 161; p. 525.
Amendt Milling Company, Monroe, Mich. Wheat-flour. No. 78,479; June 21; Gaz. vol. 155; p. 795.
American Apothecaries Company, New York, N. Y. Certain chemical preparations. No. 77,600; Apr. 26; Gaz. vol. 153; p. 1077.
American Bank Note Company, New York, N. Y. Playing-cards. Nos. 78,296–7; June 7; Gaz. vol. 155; p. 301.
American Bank Note Company, New York, N. Y. Playing-cards. No. 80,204; Nov. 22; Gaz. vol. 160; p. 1033.
American Belgian Lamp Co., New York, N. Y. Oil-lamps and burners therefor. No. 77,434; Apr. 12; Gaz. vol. 153; p. 541.
American Belting Company, The, Youngstown, Ohio. Stitched canvas belting. No. 79,315; Aug. 30; Gaz. vol. 157; p. 1239.
American Broom Mfg. Co. Ltd., New Orleans, La. Brooms. No. 77,978; May 24; Gaz. vol. 154; p. 1103.
American Butter and Cheese Co., Detroit, Mich. Butter. No. 79,884; Oct. 18; Gaz. vol. 159; p. 743.
American Caramel Company. (See Schopf, Abraham, assignor.)
American Circular Loom Company, Boston, Mass. Metal pipes. No. 78,671; July 5; Gaz. vol. 156; p. 253.
American Coffee Co. of N. O. Ltd., New Orleans, La. Blended roasted coffee and blended tea. No. 76,677; Feb. 8; Gaz. vol. 151; p. 446.
American Coffee Co. of New Orleans Ltd., New Orleans, La. Coffee and chicory compound and blended tea. No. 77,435; Apr. 12; Gaz. vol. 153; p. 541.
American Coffee Co. of New Orleans Ltd., New Orleans, La. Teas. No. 80,017; Nov. 1; Gaz. vol. 160; p. 253.
American Concrete-Steel Co., Newark, N. J. Metal bars or rods for reinforcing concrete. No. 78,854; July 19; Gaz. vol. 156; p. 793.
American Fabric Belting Co., The, Cleveland, Ohio. Woven belting. No. 80,455; Dec. 27; Gaz. vol. 161; p. 1039.
American Fibre Matting Company, Lawrence, Mass., and New York, N. Y. Certain textiles. No. 76,521; Jan. 25; Gaz. vol. 150; p. 1037.
American Fruit Product Co., New York, N. Y. Apple and grape juice. No. 78,052; May 31; Gaz. vol. 154; p. 1403.
American Fruit Product Company, Rochester, N. Y. Vinegar. No. 78,761; July 12; Gaz. vol. 156; p. 533.
American Home Remedy Company, Detroit, Mich. Medicinal tablet as a remedy for blood diseases. No. 79,096; Aug. 9; Gaz. vol. 157; p. 481.
American Hominy Company, Indianapolis, Ind. Corn products in flake form. No. 77,601; Apr. 26; Gaz. vol. 153; p. 1077.
American Hominy Company, Indianapolis, Ind. Wheat-flour. No. 77,785; May 10; Gaz. vol. 154; p. 509.
American Hominy Company, Indianapolis, Ind. Wheat-flour. No. 77,892; May 17; Gaz. vol. 154; p. 831.
American Hominy Company, Indianapolis, Ind. Wheat-flour. No. 78,855; July 19; Gaz. vol. 156; p. 793.
American Hominy Company, Indianapolis, Ind. Wheat-flour. No. 80,260; Nov. 29; Gaz. vol. 160; p. 1267.
American Lard Company, New York, N. Y. Lard. No. 76,678; Feb. 8; Gaz. vol. 151; p. 446.
American Lava Co., Chattanooga, Tenn. Burners and tips for illuminating-gas. No. 79,885; Oct. 18; Gaz. vol. 159; p. 743.
American Lumber Preserving Co., Atlanta, Ga. Chemical solution for preserving lumber. No. 78,762; July 12; Gaz. vol. 156; p. 533.
American Manufacturing Company, Charleston, W. Va. Jute bagging for baling cotton. No. 76,806; Feb. 15; Gaz. vol. 151; p. 727.
American Manufacturing Company, The, Charleston, W. Va., and New York, N. Y. Jute bagging for baling cotton. Nos. 77,602–3; Apr. 26; Gaz. vol. 153; p. 1077.
American Manufacturing Company, The, New York, N. Y. Jute bagging for baling cotton. No. 79,952; Oct. 25; Gaz. vol. 159; p. 987.
American Net & Twine Co., Boston, Mass. Twine and cord. Nos. 77,604–5; Apr. 26; Gaz. vol. 153; p. 1077.
American News Company, The, New York, N. Y. Monthly magazine. No. 76,956; Mar. 1; Gaz vol. 152; p. 225.
American Oil Pump & Tank Co., The, Dayton, Ohio. Oil-pumps. No. 78,222; May 31; Gaz. vol. 154; p. 1407.
American Pedal Co., The, New York, N. Y. Automobile pedal-covers. No. 80,398; Dec. 20; Gaz. vol. 161; p. 749.
American Pin Co., Waterbury, Conn. Hooks and eyes. No. 76,500; Jan. 25; Gaz. vol. 150; p. 1037.
American Pin Co., Waterbury, Conn. Safety-pins. No. 79,179; Aug. 16; Gaz. vol. 157; p. 749.
American Pin Company, Waterbury, Conn. Pins, safety-pins, and hooks and eyes. No. 77,506; Apr. 19; Gaz. vol. 153; p. 817.
American Posting Service, Chicago, Ill. Bill, sign, and advertising boards. No. 78,928; July 26; Gaz. vol. 156; p. 1061.
American Pulley Company, Philadelphia, Pa. Pulleys and wheels for machinery and tools. No. 77,211; Mar. 22; Gaz. vol. 152; p. 953.
American Pure Coffee & Spice Company, The, Dayton, Ohio. Spices, flavoring extracts, cocoa, tea, &c. No. 80,337; Dec. 13; Gaz. vol. 161; p. 525.
American Radiator Company, East Orange, N. J.; Chicago, Ill.; New York, N. Y.; Philadelphia, Pa.; Boston, Mass.; London, England; Paris, France, and Berlin, Germany. Radiators and boilers. No. 76,482; Jan. 18; Gaz. vol. 150; p. 822.
American Road Machine Company, Kennett Square, Pa. Certain machinery. No. 79,545; Sept. 20; Gaz. vol. 158; p. 697.
American Road Machine Company, Kennett Square, Pa. Distributing-carts and dumping-wagons. No. 79,953; Oct. 25; Gaz. vol. 159; p. 987.
American Steam Gauge & Valve Mfg. Co., Boston, Mass. Recording-gages. No. 76,522; Jan. 25; Gaz. vol. 150; p. 1037.
American Steam Gauge & Valve Mfg. Co., Boston, Mass. Valves. No. 76,984; Mar. 1; Gaz. vol. 152; p. 226.
American Steel & Wire Company of New Jersey, Cleveland, Ohio; Chicago, Ill.; Pittsburg, Pa.; New York, N. Y., and Worcester, Mass. Barbed wire. No. 78,480; June 21; Gaz. vol. 155; p. 795.
American Steel & Wire Company, Chicago, Ill. Barbed wire. No. 78,672; July 5; Gaz. vol. 156; p. 253.
American Sun Bonnet Company, Lathrop, Mo. Sunbonnets, doll-bonnets, aprons, and petticoats. No. 76,579; Feb. 1; Gaz. vol. 151; p. 189.
American Thread Company, The, Jersey City, N. J. Spool and sewing cotton, thread, and cotton yarn. Nos. 79,954–5; Oct. 25; Gaz. vol. 159; p. 987.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 77,183; Mar. 15; Gaz. vol. 152; p. 728.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. Nos. 77,212–17; Mar. 22; Gaz. vol. 152; p. 953.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 77,362; Apr. 5; Gaz. vol. 153; p. 267.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. Nos. 78,053–6; May 31; Gaz. vol. 154; p. 1403.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. Nos. 78,298–9; June 7; Gaz. vol. 155; p. 301.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 78,374; June 7; Gaz. vol. 155; p. 303.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 79,316; Aug. 30; Gaz. vol. 157; p. 1239.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. Nos. 79,384–5; Sept. 6; Gaz. vol. 158; p. 223.

Alphabetical list of registrants of trade-marks—Continued.

American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 79,460; Sept. 13; Gaz. vol. 158; p. 477.
American Writing Paper Company, Holyoke, Mass. Cover-paper. No. 79,546; Sept. 20; Gaz. vol. 158; p. 697.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 79,638; Sept. 27; Gaz. vol. 158; p. 879.
Amshoff, Herman, Louisville, Ky. Soap. No. 77,696; May 3; Gaz. vol. 154; p. 247.
Amsinck & Co., G., New York, N. Y. Kerosene-oil. No. 77,413; Apr. 5; Gaz. vol. 153; p. 268.
Anderson, Robert A., Fort Worth, Tex. Toilet powder. No. 78,391; June 14; Gaz. vol. 155; p. 549.
Andrew J. Morse & Son, Inc., Boston, Mass. Fire-hose nozzle. No. 78,338; June 7; Gaz. vol. 155; p. 302.
Andrews, Ernest L., Bristol, Tenn. Medicinal tonic. No. 79,029; Aug. 2; Gaz. vol. 157; p. 203.
Andrews Shoe Company, The, Columbus, Ohio. Leather shoes. No. 80,261; Nov. 29; Gaz. vol. 160; p. 1267.
Anger Baking Company, New York, N. Y. Ice-cream cones. No. 78,763; July 12; Gaz. vol. 156; p. 533.
Anhydrous Battery Company, Chicago, Ill. Dry-battery cells. No. 77,697; May 3; Gaz. vol. 154; p. 247.
Anti-Kalsomine Co., Grand Rapids, Mich. Base for making a wall-coating. No. 76,337; Jan. 4; Gaz. vol. 150; p. 263.
Anti-Vermin Co., New York, N. Y. Vermin-destroyers, insecticides, disinfectants, and antiseptics. No. 76,807; Feb. 15; Gaz. vol. 151; p. 727.
Antietam Paper Co. Inc., Hagerstown, Md. Writing and printing papers and envelops. No. 76,896; Feb. 22; Gaz. vol. 151; p. 1010.
Antrim & Sons, C. W., Richmond, Va. Coffee. No. 79,806; Oct. 11; Gaz. vol. 159; p. 485.
Antrim & Sons, C. W., Richmond, Va. Vinegar. No. 80,262; Nov. 29; Gaz. vol. 160; p. 1267.
Appeal Manufacturing & Jobbing Co., Los Angeles, Cal. Bicycles. No. 76,847; Feb. 22; Gaz. vol. 151; p. 1009.
Apperson Bros. Automobile Company, Kokomo, Ind. Automobiles. No. 76,665; Feb. 8; Gaz. vol. 151; p. 445.
Appleton Electric Company, Chicago, Ill. Certain electrical supplies. No. 78,058; May 31; Gaz. vol. 154; p. 1403.
Aquidneck Manufacturing Co., Newport, R. I. Soap. No. 79,639; Sept. 27; Gaz. vol. 158; p. 879.
Aquino, Giovanni, New York, N. Y. White wine. No. 78,481; June 21; Gaz. vol. 155; p. 795.
Arabol M'f'g. Co., New York, N. Y. Soap powder. No. 76,388; Jan. 11; Gaz. vol. 150; p. 566.
Arabol M'f'g Co., The, New York, N. Y. Paste for labeling on tin. No. 78,925; July 26; Gaz. vol. 156; p. 1061.
Archinard, Edward J., Chicago, Ill. Polishing-cloths. No. 78,375; June 7; Gaz. vol. 155; p. 303.
Arkadelphia Milling Company, Arkadelphia, Ark. Wheat-flour. No. 77,283; Mar. 29; Gaz. vol. 152; p. 1219.
Armiger Chemical Co., Chicago, Ill. Metal-polishes. No. 78,856; July 19; Gaz. vol. 156; p. 793.
Armstrong Packing Company, Dallas, Tex. Compound of oleo-stearin and cotton-seed oil. No. 76,267; Jan. 4; Gaz. vol. 150; p. 261.
Armstrong Packing Company, Dallas, Tex. Soap. No. 80,263; Nov. 29; Gaz. vol. 160; p. 1267.
Armstrong Refining Company, Dallas, Tex. Cotton-seed cooking-oil. No. 78,764; July 12; Gaz. vol. 156; p. 533.
Arnold & Aborn, New York, N. Y. Teas and coffees. No. 78,223; May 31; Gaz. vol. 154; p. 1407.
Aronson, Louis V., Newark, N. J. Wrenches. No. 77,284; Mar. 29; Gaz. vol. 152; p. 1219.
Artell Company, New York, N. Y. Faucets, shower-baths, and soap-holders. No. 77,606; Apr. 26; Gaz. vol. 153; p. 1077.
Arthe, Levy, Bernhard Co., New York, N. Y. Umbrellas. Nos. 76,636–8; Feb. 8; Gaz. vol. 151; p. 445.
Arthur H. Thomas Company, Philadelphia, Pa. Certain laboratory apparatus. No. 76,389; Jan. 11; Gaz. vol. 150; p. 566.
Arthur L. Evans Co. Incorporated, The, Boston, Mass. Trade periodicals. Nos. 79,112–13; Aug. 9; Gaz. vol. 157; p. 481.
Asch, Frederick, San Francisco, Cal. Remedy for certain diseases. No. 80,018; Nov. 1; Gaz. vol. 160; p. 253.
Ash Grove Lime and Portland Cement Company, Kansas City, Mo. Lime and cement. No. 78,926; July 26; Gaz. vol. 156; p. 1061.
Ashland Brewing Co., Ashland, Wis. Beer. No. 80,264; Nov. 29; Gaz. vol. 160; p. 1267.
Ashland Manufacturing Company, Hillsdale, Md. Cotton duck. No. 79,386; Sept. 6; Gaz. vol. 158; p. 223.
Ashton and Sons, Nicholas, Liverpool, England. Salt. No. 76,349; Jan. 11; Gaz. vol. 150; p. 565.
Askins, Joseph, Lima, Ohio. Insoles for shoes. No. 78,927; July 26; Gaz. vol. 156; p. 1061.
Asmus Brothers, Detroit, Mich. Tea. No. 79,956; Oct. 25; Gaz. vol. 159; p. 987.
Aspegren & Co., New York, N. Y. Cotton-seed oil. No. 77,414; Apr. 5; Gaz. vol. 153; p. 268.
Aspinwall Manufacturing Company, Jackson, Mich. Potato planters, diggers, cutters, and sprayers. No. 79,317; Aug. 30; Gaz. vol. 157; p. 1239.
Astoria & Puget Sound Canning Co., Bellingham, Wash. Canned salmon. No. 79,807; Oct. 11; Gaz. vol. 159; p. 485.
Atchison, Topeka and Santa Fe Railway Company, The, Chicago, Ill. Periodicals. No. 79,098; Aug. 9; Gaz. vol. 157; p. 481.
Atlantic & Eastern Coal Co., New York, N. Y. Coal. No. 77,116; Mar. 8; Gaz. vol. 152; p. 485.
Atlantic Export Company, New York, N. Y. Dried brewers' grain. No. 80,166; Nov. 15; Gaz. vol. 160; p. 769.
Atlantic Refining Co., The, Cleveland, Ohio. Metal-polish. No. 79,180; Aug. 16; Gaz. vol. 157; p. 749.
Atlantic Refining Co., The, Cleveland, Ohio. Polishes for metal and wood and leather-dressings. No. 79,181; Aug. 16; Gaz. vol. 157; p. 749.
Atlantic Refining Company, Philadelphia, Pa. Refined petroleum. Nos. 80,019–20; Nov. 1; Gaz. vol. 160; p. 253.
Atlantic Refining Company, The, Philadelphia, Pa. Refined petroleum. No. 80,399; Dec. 20; Gaz. vol. 161; p. 749.
Atlas Preserving Co., Baltimore, Md. Condiment similar to chilli sauce. No. 78,673; July 5; Gaz. vol. 156; p. 253.
Attleboro Chain Company, Attleboro, Mass. Lockets and bracelets. No. 76,957; Mar. 1; Gaz. vol. 152; p. 225.
Atuyer, Bianchini, Ferier & Cie., Lyon, France, and New York, N. Y. Silk piece fabrics. No. 77,786; May 10; Gaz. vol. 154; p. 509.
Atuyer, Bianchini, Férier & Co., Lyon, France. Silk piece goods. Nos. 78,224–5; May 31; Gaz. vol. 154; p. 1408.
Atwood Suspender Co., Schenectady, N. Y. Suspenders and armbands. No. 76,426; Jan. 18; Gaz. vol. 150; p. 821.
August Moll Mfg. Co., New York, N. Y. Braid. No. 79,223; Aug. 16; Gaz. vol. 157; p. 750.
Augusta Brewing Co., Augusta, Ga. Beer. No. 79,388; Sept. 6; Gaz. vol. 158; p. 223.
Ault & Wiborg Co., The, Cincinnati, Ohio. Varnish-paint. No. 80,400; Dec. 20; Gaz. vol. 161; p. 749.
Aune, Ole O., Waltham, Mass. Watch parts. No. 79,245; Aug. 23; Gaz. vol. 157; p. 995.
Aurora Corset Co., Aurora, Ill. Corsets. No. 77,607; Apr. 26; Gaz. vol. 153; p. 1077.
Austin, Nichols & Co., New York, N. Y. Canned sardines in olive-oil. No. 76,350; Jan. 11; Gaz. vol. 150; p. 565.
Austin, Nichols & Co., New York, N. Y. Certain foods. No. 76,390; Jan. 11; Gaz. vol. 150; p. 566.
Austin, Nichols & Co., New York, N. Y. Certain foods. No. 76,614; Feb. 1; Gaz. vol. 151; p. 190.
Austin Nichols & Co., New York, N. Y. Blended coffee. No. 78,035; May 24; Gaz. vol. 154; p. 1104.
Austin, Nichols & Co., New York, N. Y. Blended coffee. No. 79,182; Aug. 16; Gaz. vol. 157; p. 749.
Auto Specialties Mfg. Co., Milwaukee, Wis. Spark-plugs. No. 77,893; May 17; Gaz. vol. 154; p. 831.
Autolite Manufacturing Company, Newark, N. J. Cigarettes. No. 78,392; June 14; Gaz. vol. 155; p. 549.
Avey Humane Feed Bag Company, San Francisco, Cal. Feed-bags. No. 80,021; Nov. 1; Gaz. vol. 160; p. 253.
B. Altman & Co., New York, N. Y. Silk piece goods. No. 76,750; Feb. 15; Gaz. vol. 151; p. 725.
B. F. Goodrich Company, The, Akron, Ohio. Steam-hose. No. 77,894; May 17; Gaz. vol. 154; p. 831.
B. F. Goodrich Company, The, Akron, Ohio. Belting. No. 79,667; Sept. 27; Gaz. vol. 158; p. 879.
B. T. Babbitt, Jersey City, N. J., and New York, N. Y. Cleanser for household purposes, &c. No. 79,389; Sept. 6; Gaz. vol. 158; p. 223.
B. T. Babbitt, Jersey City, N. J., and New York, N. Y. Soap. No. 79,390; Sept. 6; Gaz. vol. 158; p. 223.
B. V. D. Company, The, New York, N. Y. Undershirts and drawers. No. 77,436; Apr. 12; Gaz. vol. 153; p. 541.
Bacci, Michele, New York, N. Y. Salad-oil. No. 77,191; Mar. 22; Gaz. vol. 152; p. 953.
Bacci, Michele, New York, N. Y. Olive-oil. No. 77,437; Apr. 12; Gaz. vol. 153; p. 541.
Bacon, Charles A., Chicago, Ill. Monthly magazines. No. 77,698; May 3; Gaz. vol. 154; p. 247.
Bacorn Company, The, Elmira, N. Y. Perfumes, toilet waters, sachet-powders, &c. No. 79,183; Aug. 16; Gaz. vol. 157; p. 749.
Badger, Richard G., Boston, Mass. Bimonthly magazines. No. 78,674; July 5; Gaz. vol. 156; p. 253.
Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Coloring-matters. No. 76,268; Jan. 4; Gaz. vol. 150; p. 261.
Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Chemicals to be used when bucking or scouring dyed textile material. No. 76,580; Feb. 1; Gaz. vol. 151; p. 189.
Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Chemicals used in reducing, discharging, and bleaching. No. 76,958; Mar. 1; Gaz. vol. 152; p. 225.
Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Coloring-matters. No. 77,192; Mar. 22; Gaz. vol. 152; p. 953.
Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Certain chemicals. No. 80,338; Dec. 13; Gaz. vol. 161; p. 525.

Alphabetical list of registrants of trade-marks—Continued.

Baer Bros., New York, N. Y. Paints, enamels, bronze powders, and bronzing liquids. No. 76,828; Feb. 15; Gaz. vol. 151; p. 727.
Baer Senior and Company's Successors, Manila, Philippine Islands. Cigars and cigarettes. No. 77,363; Apr. 5; Gaz. vol. 153; p. 267.
Baer Senior and Company's Successors, Manila, Philippine Islands. Cigars. No. 77,364; Apr. 5; Gaz. vol. 153; p. 267.
Baer Senior and Company's Successors, Manila, Philippine Islands. Cigars and cigarettes. No. 77,507; Apr. 19; Gaz. vol. 153; p. 817.
Bailey, Aubrey G., Norfolk, Va. Fresh oysters. No. 78,226; May 31; Gaz. vol. 154; p. 1408.
Bailey, Aubrey G., Norfolk, Va. Fresh oysters. No. 79,714; Oct. 4; Gaz. vol. 159; p. 237.
Bailey, Ernest A., Washington, D. C. Game-board. No. 79,461; Sept. 13; Gaz. vol. 158; p. 477.
Baker & Bennett Co., New York, N. Y. Dolls. No. 78,300. June 7; Gaz. vol. 155; p. 301.
Baker, John A., Fort Worth, Tex. Medicinal preparation. No. 79,184; Aug. 16; Gaz. vol. 157; p. 749.
Baker, John W., Stamford, Conn. Game-scoring boards. No. 77,438; Apr. 12; Gaz. vol. 153; p. 541.
Baker Manufacturing Co., Knoxville, Tenn. Medicines. No. 78,482; June 21; Gaz. vol. 155; p. 795.
Baldwin Forging & Tool Company, The, Columbus, Ohio. Shovels, spades, and scoops. No. 78,565; June 28; Gaz. vol. 155; p. 1037.
Baldwin Perfumery Co., The, Chicago, Ill. Certain toilet articles. Nos. 79,318–19; Aug. 30; Gaz. vol. 157; p. 1239.
Ballou, Harry G., Seattle, Wash. Certain surgical appliances. No. 77,439; Apr. 12; Gaz. vol. 153; p. 541.
Baltimore Bargain House, Baltimore, Md. Piece goods, lace, towels, ribbons, and other articles. No. 79,392; Sept. 6; Gaz. vol. 158; p. 223.
Baltimore Bargain House, Baltimore, Md. Jewelry, hollow, flat, and table ware, handles, and jewel-settings. No. 79,393; Sept. 6; Gaz. vol. 158; p. 223.
Baltimore Bargain House, Baltimore, Md. Crockery, porcelain, and earthenware. No. 79,394; Sept. 6; Gaz. vol. 158; p. 223.
Baltimore Bargain House, Baltimore, Md. Certain stationery and toilet articles. No. 79,395; Sept. 6; Gaz. vol. 158; p. 223.
Baltimore Bargain House, Baltimore, Md. Fancy goods and notions. No. 79,396; Sept. 6; Gaz. vol. 158; p. 223.
Baltimore Bargain House, Baltimore, Md. Glassware. No. 79,397; Sept. 6; Gaz. vol. 158; p. 223.
Baltimore Bargain House, Baltimore, Md. Certain named clothing. No. 79,398; Sept. 6; Gaz. vol. 158; p. 223.
Baltimore Bargain House, Baltimore, Md. Watch-movements. No. 79,808; Oct. 11; Gaz. vol. 159; p. 485.
Baltimore Brush Co., The, Baltimore, Md. Brushes. No. 78,393; June 14; Gaz. vol. 155; p. 549.
Bamberg & Risser, New York, N. Y. Silk netting in the piece. No. 79,886; Oct. 18; Gaz. vol. 159; p. 743.
Barber Asphalt Paving Company, Philadelphia, Pa. Asphalt and certain asphalt products. No. 76,877; Feb. 22; Gaz. vol. 151; p. 1009.
Barber Asphalt Paving Company, The, Philadelphia, Pa. Bituminous roofing-sheets. No. 78,566; June 28; Gaz. vol. 155; p. 1037.
Barcalo Manufacturing Company, Buffalo, N. Y. Beds, cribs, bed-springs, and mattresses. No. 79,809; Oct. 11; Gaz. vol. 159; p. 485.
Barclay & Barclay, New York, N. Y. Soap. No. 79,320; Aug. 30; Gaz. vol. 157; p. 1239.
Barclay & Barclay, New York, N. Y. Soap. No. 80,022; Nov. 1; Gaz. vol. 160; p. 253.
Barcley Corset Company, The, Newark, N. J. Wire garment-stays. No. 78,567; June 28; Gaz. vol. 155; p. 1037.
Barling & Sons, B., London, England. Tobacco-pipes. No. 80,339; Dec. 13; Gaz. vol. 161; p. 525.
Barnes, Earle H., Parkers, N. Y. Remedy for affections of the throat and lungs. No. 78,483; June 21; Gaz. vol. 155; p. 795.
Barratt, William, Lansing, Mich. Certain foods. No. 77,979; May 24; Gaz. vol. 154; p. 1103.
Barrell and Barrell, Fleetwood, Pa. Remedy for chicken-gape. No. 77,608; Apr. 26; Gaz. vol. 153; p. 1077.
Barrett Manufacturing Company, Charleston, W. Va., and Philadelphia, Pa. Felt roofing materials. No. 78,929; July 26; Gaz. vol. 156; p. 1061.
Barrett Manufacturing Company, New York, N. Y. Ready felt roofing. Nos. 80,456–7; Dec. 27; Gaz. vol. 161; p. 1039.
Barth, John M., East St. Louis, Ill. Furniture-polish. No. 80,205; Nov. 22; Gaz. vol. 160; p. 1033.
Bartholomay Brewery Company, Rochester, N. Y. Beer. No. 76,539; Jan. 25; Gaz. vol. 150; p. 1038.
Bartholomew Roofing Co., Little Rock, Ark. Roofing-paper. No. 77,218; Mar. 22; Gaz. vol. 152; p. 953.
Barton & Guestier, Bordeaux, France. Olive-oil. No. 76,524; Jan. 25; Gaz. vol. 150; p. 1037.
Barton & Guestier, Bordeaux, France. Claret and white wines. No. 76,540; Jan. 25; Gaz. vol. 150; p. 1038.
Bartow Chemical Co., The, Bartow, Fla. Remedy for grippe, colds, fevers, and chills. No. 77,860; May 10; Gaz. vol. 154; p. 511.
Baruch, Morris J., New York, N. Y. Caps and outer coats. No. 79,030; Aug. 2; Gaz. vol. 157; p. 203.
Basil, James, Newark, N. J. Razor-strops and dressings therefor. No. 76,615; Feb. 1; Gaz. vol. 151; p. 190.
Bass-Hueter Paint Co., San Francisco, Cal. Lubricating-oils. No. 77,047; Mar. 8; Gaz. vol. 152; p. 483.
Bass, Samuel Q., Milford and Cincinnati, Ohio. Alloy of copper and zinc. No. 76,777; Feb. 15; Gaz. vol. 151; p. 726.
Bates & Son, C. J., Chester, Conn. Crochet-hooks. No. 78,060; May 31; Gaz. vol. 154; p. 1403.
Batts, J. F., Garner, N. C. Seed-corn. No. 78,930; July 26; Gaz. vol. 156; p. 1061.
Batts, John T., Grand Rapids, Mich. Garment-hangers for wardrobes. Nos. 77,032–3; Mar. 1; Gaz. vol. 152; p. 227.
Bauer, Charles, Hampstead, N. Y. Corn and bunion plasters. No. 77,285; Mar. 29; Gaz. vol. 152; p. 1219.
Bauer & Dürrschmidt, Markneukirchen, Germany. Musical strings. No. 77,193; Mar. 22; Gaz. vol. 152; p. 953.
Bauer & Dürrschmidt, Markneukirchen, Germany. Violin-strings. No. 77,440; Apr. 12; Gaz. vol. 153; p. 541.
Baughman & Moore, Spokane, Wash. Tamales. No. 77,194; Mar. 22; Gaz. vol. 152; p. 953.
Baulig, Theodore F., Egg Harbor City, N. J. Undershirts, drawers, pajamas, and night-robes. No. 78,765; July 12; Gaz. vol. 156; p. 533.
Bauman, Lucian K., Holyoke, Mass. Remedy for rheumatism and backache. No. 80,340; Dec. 13; Gaz. vol. 161; p. 525.
Baumann, Albert P., New York, N. Y. Tooth-brushes. No. 77,980; May 24; Gaz. vol. 154; p. 1103.
Baumgarten, Josef, New York, N. Y. Tongue-cleaners. No. 76,846; Feb. 15; Gaz. vol. 151; p. 728.
Baumgartner, William J., Detroit, Mich. Specific pills. No. 76,616; Feb. 1; Gaz. vol. 151; p. 190.
Bausch & Lomb Optical Co., Rochester, N. Y. Certain optical and scientific apparatus. No. 79,031; Aug. 2; Gaz. vol. 157; p. 203.
Bausch & Lomb Optical Co., Rochester, N. Y. Gun-sights. No. 79,463; Sept. 13; Gaz. vol. 158; p. 477.
Bausch & Lomb Optical Co., Rochester, N. Y. Head, throat, and dental mirrors. No. 79,625; Sept. 20; Gaz. vol. 158; p. 699.
Bawo & Dotter, East Orange, N. J., and New York, N. Y. Dolls. No. 77,895; May 17; Gaz. vol. 154; p. 831.
Bay State Corset Co., Springfield, Mass., and New York, N. Y. Corsets. No. 77,787; May 10; Gaz. vol. 154; p. 509.
Bay State Optical Company, Attleboro, Mass. Eyeglasses and their mountings and parts. No. 76,523; Jan. 25; Gaz. vol. 150; p. 1037.
Bayley & Co., London, England. Perfumed soaps. No. 79,715; Oct. 4; Gaz. vol. 159; p. 237.
Beals & Torrey Shoe Co., Milwaukee, Wis. Leather, rubber, and canvas boots and shoes. No. 80,101; Nov. 8; Gaz. vol. 160; p. 489.
Bearman, Samuel, St. Louis, Mo. Leather shoes. No. 80,401; Dec. 20; Gaz. vol. 161; p. 749.
Beasley Shoe Co. Inc., Lynchburg, Va. Leather boots and shoes. No. 76,501; Jan. 25; Gaz. vol. 150; p. 1037.
Beatrice Poultry & Cold Storage Co., Beatrice, Nebr. Dressed poultry. No. 76,897; Feb. 22; Gaz. vol. 151; p. 1010.
Bechtold, George, New York, N. Y. Medicinal tablets. No. 76,269; Jan. 4; Gaz. vol. 150; p. 261.
Beckley Ralston Co., Chicago, Ill. Pneumatic vehicle-tires. No. 76,928; Feb. 22; Gaz. vol. 151; p. 1011.
Bee Bee Confection Co., Dayton, Ohio. Chewing-gum. No. 76,751; Feb. 15; Gaz. vol. 151; p. 725.
Beekman, John C., Tarpon Springs, Fla. Rust-proofing and lubricating oil. No. 79,810; Oct. 11; Gaz. vol. 159; p. 485.
Behning Piano Co., New York, N. Y. Pianos and player-pianos. No. 78,484; June 21; Gaz. vol. 155; p. 795.
Behrend, Frederick, New York, N. Y. Desiccated vegetables and milk-powder. No. 78,568; June 28; Gaz. vol. 155; p. 1037.
Belding Bros. & Company, Rockville, Conn. Embroidery-silks. No. 77,365; Apr. 5; Gaz. vol. 153; p. 267.
Belding Bros. & Company, Rockville, Conn. Silk piece goods. No. 77,981; May 24; Gaz. vol. 154; p. 1103.
Bellevue Piano Co., Bellevue, Iowa. Pianos. No. 77,896; May 17; Gaz. vol. 154; p. 831.
Bemis Bro. Bag Co., St. Louis, Mo.; Boston, Mass., and Omaha, Nebr. Fly-nets and fly-covers for horses. No. 78,569; June 28; Gaz. vol. 155; p. 1037.
Bemis Bro. Bag Co., St. Louis, Mo.; Boston, Mass., and Omaha, Nebr. Horse-blankets and horse-clothing. No. 78,570; June 28; Gaz. vol. 155; p. 1037.
Ben-Hur Metal Polish Co., Crawfordsville, Ind. Polishes. No. 78,485; June 21; Gaz. vol. 155; p. 795.
Ben Strauss Company, New York, N. Y. Rugs. No. 77,610; Apr. 26; Gaz. vol. 153; p. 1077.
Ben Strauss Company, New York, N. Y. Razors. No. 77,611; Apr. 26; Gaz. vol. 153; p. 1077.
Ben Strauss Company, New York, N. Y. Linen damasks, napkins, and table-cloths. No. 77,612; Apr. 26; Gaz. vol. 153; p. 1077.
Ben Strauss Company, New York, N. Y. Brooches and stick-pins. No. 77,613; Apr. 26; Gaz. vol. 153; p. 1077.

Alphabetical list of registrants of trade-marks—Continued.

Ben Strauss Company, New York, N. Y. Silk piece goods. No. 77,614; Apr. 26; Gaz. vol. 153; p. 1077.
Ben Strauss Company, New York, N. Y. Artificial flowers and feather trimmings used in millinery. No. 77,788; May 10; Gaz. vol. 154; p. 509.
Ben Strauss Company, New York, N. Y. Table-china. No. 78,048; May 24; Gaz. vol. 154; p. 1105.
Benham Garment Co., Des Moines, Iowa. Petticoats. No. 76,502; Jan. 25; Gaz. vol. 150; p. 1037.
Bennasser & Co., A., Palma de Mallorca, Spain. Olive-oil. No. 79,185; Aug. 16; Gaz. vol. 157; p. 749.
Benoist Bros. Mfg. Co., St. Louis, Mo. Storage batteries. No. 76,778; Feb. 15; Gaz. vol. 151; p. 726.
Bensmann, Hermann, Bremen, Germany. Powder for decolorizing oil. No. 79,186; Aug. 16; Gaz. vol. 157; p. 749.
Bentel, William C., New York, N. Y. Beer. No. 80,167; Nov. 15; Gaz. vol. 160; p. 769.
Bercovich, Bert, Oakland, Cal. Cigars. No. 80,023; Nov. 1; Gaz. vol. 160; p. 253.
Berger, Joe R., Cincinnati, Ohio. Remedy for dyspepsia. No. 78,932; July 26; Gaz. vol. 156; p. 1061.
Berger Manufacturing Company, The, Canton, Ohio. Metallic plates to reinforce composition flooring. No. 80,300; Dec. 6; Gaz. vol. 161; p. 263.
Besson and Company Limited, London, England. Wind musical instruments. No. 77,982; May 24; Gaz. vol. 154; p. 1103.
Best, Richard, New York, N. Y. Pencils. No. 76,752; Feb. 15; Gaz. vol. 151; p. 725.
Betz & van Heijst, Vaardingen, Netherlands. Salted herring. No. 79,465; Sept. 13; Gaz. vol. 158; p. 477.
Bevin Brothers Manufacturing Company, East Hampton, Conn. Bells, gongs, and chimes. No. 77,219; Mar. 22; Gaz. vol. 152; p. 953.
Bevin Brothers Manufacturing Company, East Hampton, Conn. Bells. No. 78,857; July 19; Gaz. vol. 156; p. 793.
Beyer Bros. Co., Jersey City, N. J., and New York, N. Y. Dressed poultry and eggs. No. 77,595; Apr. 19; Gaz. vol. 153; p. 819.
Beyer, Louis A., Chicago, Ill. Dental filling. No. 77,220; Mar. 22; Gaz. vol. 152; p. 953.
Beyerle, Jacob, New York, N. Y. Dress-shields. No. 78,487; June 21; Gaz. vol. 155; p. 795.
Beyerle, Jacob, Brooklyn, N. Y. Dress-shields. No. 79,321; Aug. 30; Gaz. vol. 157; p. 1239.
Beyerle, Jacob, New York, N. Y. Dress-shields. No. 79,399; Sept. 6; Gaz. vol. 158; p. 223.
Biber, Arnold, Pforzheim, Germany. Compositions for making gums for artificial teeth. No. 78,933; July 26; Gaz. vol. 156; p. 1061.
Biel, Conrad E., Denver, Colo. Medicine. No. 79,247; Aug. 23; Gaz. vol. 157; p. 995.
Bienek, Carl, Oakland, Cal. Stomach-bitters. No. 79,716; Oct. 4; Gaz. vol. 159; p. 237.
Big Diamond Milling Co., Minneapolis, Minn. Wheat-flour. No. 77,195; Mar. 22; Gaz. vol. 152; p. 953.
Big Thompson Milling & Elevator Company, The, Loveland, Colo. Wheat-flour. No. 79,248; Aug. 23; Gaz. vol. 157; p. 995.
Bigelow Carpet Company, Clinton, Lowell, and Boston, Mass. Rugs. Nos. 78,301–2; June 7; Gaz. vol. 155; p. 301.
Bigelow Carpet Company, Clinton, Lowell, and Boston, Mass. Carpets. No. 78,303; June 7; Gaz. vol. 155; p. 301.
Bigelow Carpet Company, Clinton, Lowell, and Boston, Mass. Rugs. No. 78,488; June 21; Gaz. vol. 155; p. 795.
Bindley Hardware & Mfg. Co., Pittsburg, Pa. Varnish-stains and enamels. No. 79,548; Sept. 20; Gaz. vol. 158; p. 697.
Binkley, Frank C., Sycamore, Ill. Automobiles. No. 77,019; Mar. 1; Gaz. vol. 152; p. 227.
Binney & Smith Company, East Orange, N. J., and New York, N. Y. Paste and fluids. No. 77,061; Mar. 8; Gaz. vol. 152; p. 483.
Binney & Smith Company, East Orange, N. J., and New York, N. Y. Pigment for paints. No. 79,322; Aug. 30; Gaz. vol. 157; p. 1239.
Biomedic Company, The, New York, N. Y. Preparation of malt extract with other ingredients. No. 78,395; June 14; Gaz. vol. 155; p. 549.
Bird-Archer Company, New York, N. Y. Certain chemical compounds. No. 79,549; Sept. 20; Gaz. vol. 158; p. 697.
Bird & Co., J. A. & W., Boston, Mass. Prepared roofing. No. 77,688; Apr. 26; Gaz. vol. 153; p. 1079.
Bird & Co., J. A. & W., Boston, Mass. Prepared roofing. No. 77,897; May 17; Gaz. vol. 154; p. 831.
Birdsey-Somers Co., New York, N. Y. Corsets. Nos. 76,427–8; Jan. 18; Gaz. vol. 150; p. 821.
Birmingham Macaroni Company, Birmingham, Ala. Macaroni. No. 76,878; Feb. 22; Gaz. vol. 151; p. 1010.
Birmingham Macaroni Company, Birmingham, Ala. Macaroni paste foods. No. 77,699; May 3; Gaz. vol. 154; p. 247.
Birmingham Metal & Munitions Co., Ld., Adderley Park, near Birmingham, England. Copper, zinc, lead, aluminium, and their alloys. No. 76,321; Jan. 4; Gaz. vol. 150; p. 262.
Birnbaum & Son, B., London, England. Rainproof coats. No. 76,959; Mar. 1; Gaz. vol. 152; p. 225.
Bishop & Babcock Co., The, Cleveland, Ohio. Tacks. Nos. 76,868–70; Feb. 22; Gaz. vol. 151; p. 1009.
Bishop & Babcock Co., The, Cleveland, Ohio. Nails. No. 78,489; June 21; Gaz. vol. 155; p. 795.
Bishop & Co., Geo. H., Lawrenceburg, Ind. Certain tools. No. 76,879; Feb. 22; Gaz. vol. 151; p. 1010.
Bishop & Co., Geo. H., Lawrenceburg, Ind. Certain tools. No. 77,064; Mar. 8; Gaz. vol. 152; p. 483.
Bishop, Frank, St. Louis, Mo. Automobile horn-reed. No. 80,458; Dec. 27; Gaz. vol. 161; p. 1039.
Bishop, Robert, trustee, Boston, Mass. Cotton lamp-wicking. No. 78,572; June 28; Gaz. vol. 155; p. 1037.
Bishop, Robert, trustee, Boston, Mass. Cotton lamp-wicking. No. 80,206; Nov. 22; Gaz. vol. 160; p. 1033.
Bishop, Will C., Denver, Colo. Monthly periodical. No. 78,766; July 12; Gaz. vol. 156; p. 533.
Bison Manufacturing Co., Little Valley, N. Y. Razor hones and strops. No. 78,767; July 12; Gaz. vol. 156; p. 533.
Bittman-Todd Grocer Company, The, Leavenworth, Kans. Canned foods and coffee. No. 78,573; June 28; Gaz. vol. 155; p. 1037.
Bittman-Tod Grocer Company, The, Leavenworth, Kans. Certain foods. No. 78,768; July 12; Gaz. vol. 156; p. 533.
Black Horn Leather Co., Great Bend, Pa. Chamois-skins. No. 77,034; Mar. 1; Gaz. vol. 152; p. 227.
Black, Ross W., Pittsburg, Pa. Shampoo compound. No. 77,286; Mar. 29; Gaz. vol. 152; p. 1219.
Black, Ross W., Pittsburg, Pa. Perfume and toilet water. No. 80,103; Nov. 8; Gaz. vol. 160; p. 489.
Black Silk Stove Polish Works, Sterling, Ill. Iron-enamel. No. 80,104; Nov. 8; Gaz. vol. 160; p. 489.
Blackwell-Wielandy Book & Stationery Co., St. Louis, Mo. Lead-pencils. No. 80,027; Nov. 1; Gaz. vol. 160; p. 253.
Blair, Henry C., Philadelphia, Pa. Non-alcoholic beverage. No. 80,341; Dec. 13; Gaz. vol. 161; p. 525.
Blake, Alvis, Lubbock, Tex. Remedy for headaches. No. 77,442; Apr. 12; Gaz. vol. 153; p. 541.
Blakey's Boot Protectors Limited, Leeds, England. Boot-protectors. No. 77,509; Apr. 19; Gaz. vol. 153; p. 817.
Blanckenhagen, Otto G. von, Hinzenberg, Russia. Kümmel. No. 80,029; Nov. 1; Gaz. vol. 160; p. 253.
Blank, George W., Wilkinsburg, Pa. Base-ball game and puzzle. No. 77,020; Mar. 1; Gaz. vol. 152; p. 227.
Blankenheym & Nolet's Distilleerderij, Rotterdam, Netherlands. Straight geneva. Nos. 76,707–8; Feb. 8; Gaz. vol. 151; p. 447.
Blaustein, Nathan, Baltimore, Md. Tea. No. 79,187; Aug. 16; Gaz. vol. 157; p. 749.
Bleecker & Simons, New York, N. Y. Teas, blended coffee, and spices. No. 80,168; Nov. 15; Gaz. vol. 160; p. 769.
Bleil Champagne Kunath Co., Detroit, Mich. Tobacco. No. 78,490; June 21; Gaz. vol. 155; p. 795.
Bleistift-Fabrik vorm. Johann Faber, A.-G., Nuremberg, Germany. Pencils, penholders, and erasing-rubber. No. 78,677; July 5; Gaz. vol. 156; p. 253.
Blish Milling Company, The, Seymour, Ind. Wheat-flour. No. 77,287; Mar. 29; Gaz. vol. 152; p. 1219.
Blish Milling Company, The, Seymour, Ind. Wheat-flour. No. 78,574; June 28; Gaz. vol. 155; p. 1037.
Bliss Brothers Company, Attleboro, Mass. Lockets. No. 79,811; Oct. 11; Gaz. vol. 159; p. 485.
Bliss, Fabyan & Company, Boston, Mass. Cotton piece goods. No. 78,575; June 28; Gaz. vol. 155; p. 1037.
Block, Isaac E., Chicago, Ill. Candies. No. 79,551; Sept. 20; Gaz. vol. 158; p. 697.
Block, Isaac E., Chicago, Ill. Candies. No. 80,301; Dec. 6; Gaz. vol. 161; p. 263.
Block Light Company, Youngstown, Ohio. Incandescent gas-mantles. No. 77,083; Mar. 8; Gaz. vol. 152; p. 484.
Block Light Company, Youngstown, Ohio. Incandescent gas-burners and gas-mantles. No. 79,024; July 26; Gaz. vol. 156; p. 1063.
Bockar Drug Co., New York, N. Y. Medicinal preparations. No. 77,099; Mar. 8; Gaz. vol. 152; p. 484.
Boggs, Arthur V., Buffalo, N. Y. Horse, cattle, and swine food. No. 78,858; July 19; Gaz. vol. 156; p. 793.
Bohannon, John L., Oakland, Cal. Remedy for cancers. No. 78,576; June 28; Gaz. vol. 155; p. 1037.
Bohn-Lenartz Commission Company, St. Louis, Mo. Butter. No. 77,288; Mar. 29; Gaz. vol. 152; p. 1219.
Bolano, Francisco, Chicago, Ill. Cigars and leaf-tobacco. No. 78,577; June 28; Gaz. vol. 155; p. 1037.
Bolgiano & Son, J., Baltimore, Md. Chick-starter, chick, poultry, and pigeon food. No. 76,898; Feb. 22; Gaz. vol. 151; p. 1010.
Bond Foundry and Machine Company, Manheim, Pa. Shaft-couplings. No. 79,400; Sept. 6; Gaz. vol. 158; p. 223.
Bonham Cotton Mills, Bonham Tex. Cotton piece goods. No. 77,510; Apr. 19; Gaz. vol. 153; p. 817.
Bonham Cotton Mills, Bonham, Tex. Cotton goods in the piece. No. 77,700; May 3; Gaz. vol. 154; p. 247.
Bonheur Company, The, Marcellus, N. Y. Lotion for the head and face. No. 77,974; May 17; Gaz. vol. 154; p. 833.
Bonwit, Harris & Co., New York, N. Y. Certain clothing. No. 78,305; June 7; Gaz. vol. 155; p. 301.

Alphabetical list of registrants of trade-marks—Continued.

Booth, N. E., Brooklyn, N. Y. Washers. No. 78,157; May 31; Gaz. vol. 154; p. 1406.

Booth's Distillery Limited, London, England. Orange-bitters. No. 79,552; Sept. 20; Gaz. vol. 158; p. 697.

Boott Mills, Lowell, Mass. Cotton piece goods. No. 76,429; Jan. 18; Gaz. vol. 150; p. 821.

Boott Mills, Lowell, Mass. Cotton piece goods. Nos. 79,401–5; Sept. 6; Gaz. vol. 158; p. 223.

Boott Mills, Lowell, Mass. Cotton piece goods. Nos. 79,643–4; Sept. 27; Gaz. vol. 158; p. 879.

Borden's Condensed Milk Company, Jersey City, N. J., and New York, N. Y. Condensed and evaporated milk and evaporated cream. No. 76,929; Feb. 22; Gaz. vol. 151; p. 1011.

Borden's Condensed Milk Company, Jersey City, N. J., and New York, N. Y. Malted milk. No. 77,084; Mar. 8; Gaz. vol. 152; p. 484.

Borden's Condensed Milk Company, Jersey City, N. J., and New York, N. Y. Condensed milk. No. 78,578; June 28; Gaz. vol. 155; p. 1037.

Boren-Stewart Company, Dallas, Tex. Certain foods. No. 79,033; Aug. 2; Gaz. vol. 157; p. 203.

Bornot, André F., Philadelphia, Pa. Blankets and spreads. No. 77,289; Mar. 29; Gaz. vol. 152; p. 1219.

Bornot, André F., Philadelphia, Pa. Lace curtains. No. 77,443; Apr. 12; Gaz. vol. 153; p. 541.

Borom, Schuyler C., Minneapolis, Minn. Certain toilet preparations. No. 80,302; Dec. 6; Gaz. vol. 161; p. 263.

Borsch, John L., Philadelphia, Pa. Eyeglass and spectacle lenses. No. 79,099; Aug. 9; Gaz. vol. 157; p. 481.

Bosak, Michael, Scranton, Pa. Wines. No. 78,158; May 31; Gaz. vol. 154; p. 1406.

Boshes, Abraham, New York, N. Y. Exercising apparatus and parts thereof. No. 78,859; July 19; Gaz. vol. 156; p. 793.

Boston Belting Company, Boston, Mass. Rubber hose. No. 76,617; Feb. 1; Gaz. vol. 151; p. 190.

Boston Dairy Co., Boston, Mass. Condensed milk. No. 78,579; June 28; Gaz. vol. 155; p. 1037.

Boston Dairy Company, Boston, Mass. Condensed milk. No. 77,609; Apr. 26; Gaz. vol. 153; p. 1077.

Boston Rubber Shoe Company, Malden and Boston, Mass. Rubber overshoes. No. 78,934; July 26; Gaz. vol. 156; p. 1061.

Bouford, James H., Elgin, Ill. Chewing-gum. Nos. 76,779–81; Feb. 15; Gaz. vol. 151; p. 726.

Bouford, James H., Elgin, Ill. Chewing-gum. No. 76,899; Feb. 22; Gaz. vol. 151; p. 1010.

Bourne-Fuller Company, The, Cleveland, Ohio. Rivets. Nos. 78,306–7; June 7; Gaz. vol. 155; p. 301.

Bowen, Saml. B., Philadelphia, Pa. Paints, enamels, fillers, stains, and varnishes. No. 77,352; Mar. 29; Gaz. vol. 152; p. 1221.

Bowers, Frank K., Baltimore, Md., and Washington, D. C. Remedy for corns and calli. No. 77,898; May 17; Gaz. vol. 154; p. 831.

Bowers Rubber Works, San Francisco, Cal. Spiral rubber piston-packing. No. 77,789; May 10; Gaz. vol. 154; p. 509.

Bowers Rubber Works, San Francisco, Cal. Rubber belts and hose. No. 80,106; Nov. 8; Gaz. vol. 160; p. 489.

Bowles Company, Seattle, Wash. Closet-tanks. No. 76,871; Feb. 22; Gaz. vol. 151; p. 1009.

Bowman, T. B., Boone, Nebr. Remedy for blood-poisoning in colts. No. 78,397; June 14; Gaz. vol. 155; p. 549.

Bowser, Augustus, Fort Wayne, Ind. Lubricating appliances for machinery. No. 79,645; Sept. 27; Gaz. vol. 158; p. 879.

Bozeman Milling Company, The, Bozeman, Mont. Wheat-flakes and rolled oats. No. 78,771; July 12; Gaz. vol. 156; p. 533.

Bradbury, Fred R., East Brownfield, Me. Leather-dressing. No. 79,406; Sept. 6; Gaz. vol. 158; p. 223.

Bradbury, Fred R., East Brownfield, Me. Leather-dressing. No. 79,812; Oct. 11; Gaz. vol. 159; p. 485.

Bradley, Francis W., San Diego, Cal. Whisky. No. 78,398; June 14; Gaz. vol. 155; p. 549.

Bradley, Francis W., assignor to F. W. Bradley Co., Inc., San Diego, Cal. Whisky. No. 79,253; Aug. 23; Gaz. vol. 157; p. 995.

Bradley, Francis W., assignor to F. W. Bradley Co., Inc., San Diego, Cal. Blended whisky. No. 80,028; Nov. 1; Gaz. vol. 160; p. 253.

Bradley & Metcalf Co., Milwaukee, Wis. Leather boots and shoes. No. 76,848; Feb. 22; Gaz. vol. 151; p. 1009.

Bragno and Mustari, Chicago, Ill. Olive-oil. No. 79,813; Oct. 11; Gaz. vol. 159; p. 485.

Brainard, Raymond C., New York, N. Y. Playing-cards. No. 76,503; Jan. 25; Gaz. vol. 150; p. 1037.

Brainerd and Armstrong Company, The, New London, Conn. Spool and skein silk. No. 78,159; May 31; Gaz. vol. 154; p. 1406.

Brand, Robert E. (See Shipp, Ely R., assignor.)

Brandon-Magnus Co., New York, N. Y. Handkerchiefs. Nos. 80,030–1; Nov. 1; Gaz. vol. 160; p. 253.

Brandon Mills, Greenville, S. C. Cotton piece goods. No. 77,899; May 17; Gaz. vol. 154; p. 831.

Brandt, Randolph, New York, N. Y. Machinery packings. No. 78,860; July 19; Gaz. vol. 156; p. 793.

Braunstein & Cie., Paris, France. Cigarette-paper. Nos. 76,735–6; Feb. 15; Gaz. vol. 151; p. 725.

Braunstein & Cie., Paris, France. Cigarette-paper. Nos. 77,444–6; Apr. 12; Gaz. vol. 153; p. 541.

Braunstein & Cie., Paris, France. Cigarette-paper. No. 77,900; May 17; Gaz. vol. 154; p. 831.

Breese Brothers Company, The, Cincinnati, Ohio. Rubber roofing. No. 78,308; June 7; Gaz. vol. 155; p. 301.

Breese Brothers Company, Cincinnati, Ohio. Wagons. No. 79,025; July 26; Gaz. vol. 156; p. 1063.

Breitung, Albert, Chicago, Ill. Cigars. No. 77,035; Mar. 1; Gaz. vol. 152; p. 227.

Breitung, Albert, Chicago, Ill. Cigars. No. 80,169; Nov. 15; Gaz. vol. 160; p. 769.

Bremer Linoleumwerke Delmenhorst, Delmenhorst, Germany. Linoleum. No. 77,790; May 10; Gaz. vol. 154; p. 509.

Bremner Bros., Chicago, Ill. Crackers, wafers, and biscuits. No. 77,615; Apr. 26; Gaz. vol. 153; p. 1077.

Brennaaun, Edward K., St. Louis, Mo. Sweeping compound. No. 78,491; June 21; Gaz. vol. 155; p. 795.

Brentano's, New York, N. Y. Books of a literary nature. No. 79,553; Sept. 20; Gaz. vol. 158; p. 697.

Brey, William F., Philadelphia, Pa. Wheat-flour. No. 78,160; May 31; Gaz. vol. 154; p. 1406.

Brey, William F., Philadelphia, Pa. Wheat-flour. No. 79,466; Sept. 13; Gaz. vol. 158; p. 477.

"Britelite" Company, The, Wilmington, Del., and New York, N. Y. Mantles and burners. No. 80,459; Dec. 27; Gaz. vol. 161; p. 1039.

British Columbia Lumber and Shingle Manufacturers Limited, Vancouver, British Columbia, Canada. Shingles. No. 77,447; Apr. 12; Gaz. vol. 153; p. 541.

Broad River Granite Company, Atlanta, Ga. Rough granite. No. 80,265; Nov. 29; Gaz. vol. 160; p. 1267.

Broadway Brewing & Malting Co., The, Buffalo, N. Y. Bottled beer. No. 80,342; Dec. 13; Gaz. vol. 161; p. 525.

Brocton Fruit Juice Co., Tonawanda, N. Y. Cider. No. 76,753; Feb. 15; Gaz. vol. 151; p. 725.

Brookes Limited, Lightcliffe, England. Granite manufactures for building, paving, or decoration. No. 78,036; May 24; Gaz. vol. 154; p. 1104.

Brookes Limited, Lightcliffe, England. Rough or unmanufactured granite. No. 79,887; Oct. 18; Gaz. vol. 159; p. 743.

Brooklyn Bottle Stopper Co., Brooklyn, N. Y. Bottle-stoppers. No. 77,036; Mar. 1; Gaz. vol. 152; p. 227.

Broomall, Charles A., Philadelphia, Pa. Matches. No. 77,448; Apr. 12; Gaz. vol. 153; p. 541.

Brotherhood of Locomotive Firemen and Enginemen, Peoria, Ill., and Indianapolis, Ind. Instruction-books and printed pamphlets. No. 79,407; Sept. 6; Gaz. vol. 158; p. 223.

Broussaud et Alfred Bonfils, Société Edouard, Paris, France. Metallic boxes for inclosing cigarette-papers. No. 78,678; July 5; Gaz. vol. 156; p. 253.

Brown & Co., Charles E., Springfield, Mass. Roasted coffee. No. 76,985; Mar. 1; Gaz. vol. 152; p. 226.

Brown & Co., Charles E., Springfield, Mass. Coffee. No. 80,405; Dec. 20; Gaz. vol. 161; p. 749.

Brown Company, The, Syracuse, N. Y. Repairman's truck. No. 79,554; Sept. 20; Gaz. vol. 158; p. 697.

Brown Company, O. R., Indianapolis, Ind. Carbon-paper and type-writer ribbons. No. 77,901; May 17; Gaz. vol. 154; p. 831.

Brown Durrell Co., Boston, Mass. Kid gloves. No. 76,737; Feb. 15; Gaz. vol. 151; p. 725.

Brown Durrell Co., Boston, Mass. Handkerchiefs. No. 77,290; Mar. 29; Gaz. vol. 152; p. 1219.

Brown Durrell Co., Boston, Mass. Corset clasps, steels, and stiffeners. No. 79,254; Aug. 23; Gaz. vol. 157; p. 995.

Brown Durrell Co., Boston, Mass. Hosiery. No. 79,555; Sept. 20; Gaz. vol. 158; p. 697.

Brown Durrell Co., Boston, Mass. Belts and girdles. No. 79,888; Oct. 18; Gaz. vol. 159; p. 743.

Brown Durrell Co., Boston, Mass. Hooks and eyes and snap-fastenings. No. 79,889; Oct. 18; Gaz. vol. 159; p. 743.

Brown Durrell Co., Boston, Mass. Children's underclothing. No. 80,266; Nov. 29; Gaz. vol. 160; p. 1267.

Brown, Edward G., Tampico, Mexico. Pills. No. 79,408; Sept. 6; Gaz. vol. 158; p. 223.

Brown, Herbert H., Philadelphia, Pa. Butter. No. 77,616; Apr. 26; Gaz. vol. 153; p. 1077.

Brown, Marie, New York, N. Y. Writing-pens. Nos. 78,580–1; June 28; Gaz. vol. 155; p. 1037.

Brown, Marie, New Brighton, N. Y. Writing-pens. No. 79,814; Oct. 11; Gaz. vol. 159; p. 485.

Brown Milling Company, Minneapolis, Minn. Wheat-flour. No. 77,511; Apr. 19; Gaz. vol. 153; p. 817.

Brown Milling Company, Minneapolis, Minn. Wheat-flour. No. 78,161; May 31; Gaz. vol. 154; p. 1406.

Brown Shoe Company, The, St. Louis, Mo. Men's and women's leather, canvas, and cloth shoes. No. 76,960; Mar. 1; Gaz. vol. 152; p. 225.

Brown Son & Co., Wm. H., New York, N. Y. Cotton goods in the piece. No. 79,890; Oct. 18; Gaz. vol. 159; p. 743.

Brown, Thos. E., Philadelphia, Pa. Hosiery. No. 78,679; July 5; Gaz. vol. 156; p. 253.

Alphabetical list of registrants of trade-marks—Continued.

Bruns-Frank Company, The, Dayton, Ohio. Wheat-flour. No. 79,035; Aug. 2; Gaz. vol. 157; p. 203.
Bryan, Clarence H., Chicago, Ill. Medicinal agents for the treatment of venereal diseases. No. 79,100; Aug. 9; Gaz. vol. 157; p. 481.
Bryan, Thomas M., Zanesville, Ohio. Insecticides. No. 79,891; Oct. 18; Gaz. vol. 159; p. 743.
Bryant, George H., Chicago, Ill. Golf-clubs. No. 78,492; June 21; Gaz. vol. 155; p. 795.
Büchner, Maschinenfabrik u. Apparatebau-Anstalt. Gesellschaft mit beschränkter Haftung, Hugo, Berlin, Germany. Certain cutlery. No. 77,617; Apr. 26; Gaz. vol. 153; p. 1077.
Buckeye Incubator Company, Springfield, Ohio. Incubators, brooders, and portable poultry-houses. No. 80,170; Nov. 15; Gaz. vol. 160; p. 769.
Buckeye Stereopticon Co., The, Cleveland, Ohio. Stereopticons, projectors, magic lanterns, and lantern-slides. Nos. 76,986–8; Mar. 1; Gaz. vol. 152; p. 226.
Buckeye Stereopticon Co., The, Cleveland Ohio. Stereopticons, projectors, magic lanterns, and slides. No. 77,221; Mar. 22; Gaz. vol. 152; p. 953.
Buckner, Harry W., New Orleans, La. Machinery packing, hose, and belting. No. 77,037; Mar. 1; Gaz. vol. 152; p. 227.
Budde, Charles H., Dayton, Ohio. Corn-salve. No. 79,717; Oct. 4; Gaz. vol. 159; p. 237.
Buffalo Lithia Springs Water Co., Buffalo Lithia Springs, Va. Natural mineral water. No. 80,460; Dec. 27; Gaz. vol. 161; p. 1039.
Buffalo Oil Paint & Varnish Company, Buffalo, N. Y. Paint. No. 76,307; Jan. 4; Gaz. vol. 150; p. 262.
Building Brick Association of America, New York, N. Y. Printed books, pamphlets, cards, &c. No. 80,171; Nov. 15; Gaz. vol. 160; p. 769.
Bullard Thread Company, Holyoke, Mass. Spooled sewing-thread. No. 76,351; Jan. 11; Gaz. vol. 150; p. 565.
Bullock, H. E. & J. E., Chicago, Ill. Cotton-harvesters. No. 76,270; Jan. 4; Gaz. vol. 150; p. 261.
Burch, Bailey & Co., New York, N. Y. Cotton piece goods. No. 76,880; Feb. 22; Gaz. vol. 151; p. 1010.
Burchell, Norval L., Washington, D. C. Tea. No. 80,208; Nov. 22; Gaz. vol. 160; p. 1033.
Burckhardt Company, The, Cincinnati, Ohio. Soap. No. 79,647; Sept. 27; Gaz. vol. 158; p. 879.
Burckhardt Company, The, Cincinnati, Ohio. Soap. No. 80,303; Dec. 6; Gaz. vol. 161; p. 263.
Burdett Mfg. Co., Kansas City, Mo. Mops. No. 76,647; Feb. 8; Gaz. vol. 151; p. 445.
Burgess-Norton Mfg. Company, Geneva, Ill. Hatchets, screw-drivers, and steel knives. No. 77,222; Mar. 22; Gaz. vol. 152; p. 953.
Burgmann, Feodor, Dresden-Laubegast, Germany. Stuffing-box and machinery grease. No. 77,449; Apr. 12; Gaz. vol. 153; p. 541.
Burlington Blanket Company, Burlington, Wis. Pads and housings for horse-collars and harness. No. 77,196; Mar. 22; Gaz. vol. 152; p. 953.
Burnham, Alfred A., Boston, Mass. Effervescent aperients. No. 78,061; May 31; Gaz. vol. 154; p. 1403.
Burnham, Edward, Chicago, Ill. Toilet preparations. No. 79,556; Sept. 20; Gaz. vol. 158; p. 697.
Burnham Hanna Munger D G Co., Kansas City, Mo. Ladies' waists and skirts. No. 80,172; Nov. 15; Gaz. vol. 160; p. 769.
Burrichter Bros., Galena, Ill. Gin. No. 78,037; May 24; Gaz. vol. 154; p. 1104.
Burrough Brothers Manufacturing Company, assignor, by mesne assignments, to A. G. Stollenwerck, Baltimore, Md. Gastro intestinal antiseptic. No. 78,935; July 26; Gaz. vol. 156; p. 1061.
Burroughs Tool Co., New York, N. Y. Hacksaw blades and frames. No. 79,101; Aug. 9; Gaz. vol. 157; p. 481.
Burrus Mill & Elevator Company, Fort Worth, Tex. Wheat-flour. No. 77,701; May 3; Gaz. vol. 154; p. 247.
Burt Olney Canning Company, The, Oneida, N. Y. Canned fruits and vegetables. No. 77,429; Apr. 5; Gaz. vol. 153; p. 268.
Burt Olney Canning Company, The, Oneida, N. Y. Canned fruits and vegetables. No. 77,902; May 17; Gaz. vol. 154; p. 831.
Burt and Packard Company, Brockton, Mass. Leather boots and shoes. No. 79,409; Sept. 6; Gaz. vol. 158; p. 223.
Burton Powder Company, Pittsburg, Pa. Safety-powder. No. 76,611; Feb. 1; Gaz. vol. 151; p. 190.
Burwell & Dunn Co., Charlotte, N. C. Remedy for certain diseases. No. 78,062; May 31; Gaz. vol. 154; p. 1403.
Busey, C. E., Lynchburg, Va. Catarrhal remedy. No. 78,936; July 26; Gaz. vol. 156; p. 1061.
Bushmeyer, Charles J., Oklahoma, Okla. Lubricating oils and greases. No. 80,344; Dec. 13; Gaz. vol. 161; p. 525.
Bushnell, Charles B., Mansfield, Ohio. Mop-wringer pail. No. 79,557; Sept. 20; Gaz. vol. 158; p. 697.
Business Man's Publishing Co., Ltd., Detroit, Mich. Monthly magazine. No. 76,430; Jan. 18; Gaz. vol. 150; p. 821.
Buskirk & Son, M. D., Paw Paw, Mich. Grapes. No. 78,582; June 28; Gaz. vol. 155; p. 1037.
Busse, Amand, New York, N. Y. Metal sash and window frames. No. 78,583; June 28; Gaz. vol. 155; p. 1037.
Butcher, Charles F., Sheffield, England. Cutlery and tools. No. 78,772; July 12; Gaz. vol. 156; p. 533.
Butterfield & Co., Fred, New York, N. Y. Cotton piece goods. No. 76,648; Feb. 8; Gaz. vol. 151; p. 445.
Butterfield & Co., Fred, New York, N. Y. Cotton piece goods. No. 78,773; July 12; Gaz. vol. 156; p. 533.
Byron Jackson Iron Works, San Francisco, Cal. Hydraulic machinery and fittings. No. 78,183; May 31; Gaz. vol. 154; p. 1406.
C. Stohn's Son's, Inc., The, Jersey City Heights, N. J. Shoe-cloth. No. 79,169; Aug. 9; Gaz. vol. 157; p. 483.
C. A. Edgarton Mfg. Co., The, Shirley, Mass. Suspenders and garters. No. 77,512; Apr. 19; Gaz. vol. 153; p. 817.
C. A. Edgarton Mfg. Co., The, Shirley, Mass. Suspenders and garters. No. 79,111; Aug. 9; Gaz. vol. 157; p. 481.
C. A. Edgarton Mfg. Co., The, Shirley, Mass. Suspenders and garters. No. 79,563; Sept. 20; Gaz. vol. 158; p. 697.
C. A. Gambrill Manufacturing Company, Baltimore, Md. Wheat-flour. No. 76,782; Feb. 15; Gaz. vol. 151; p. 726.
C. A. Gambrill Manufacturing Company, Baltimore, Md. Wheat-flour. Nos. 76,900–3; Feb. 22; Gaz. vol. 151; p. 1010.
C. A. Gambrill Manufacturing Company, Baltimore, Md. Wheat-flour. No. 77,123; Mar. 15; Gaz. vol. 152; p. 727.
C. A. Gambrill Manufacturing Company, Baltimore, Md. Wheat-flour. No. 77,386; Apr. 5; Gaz. vol. 153; p. 267.
C. A. Gambrill Manufacturing Company, Baltimore, Md. Wheat-flour. No. 77,450; Apr. 12; Gaz. vol. 153; p. 541.
C. A. Woolsey Paint & Color Company, Jersey City, N. J. Copper paint. No. 78,476; June 14; Gaz. vol. 155; p. 551.
C. B. Woodworth Sons Co., Rochester, N. Y. Perfumes, toilet waters, face and sachet powders. No. 77,154; Mar. 15; Gaz. vol. 152; p. 728.
C. D. Peacock, Incorporated, Chicago, Ill. Metal and glass polishing materials. No. 76,322; Jan. 4; Gaz. vol. 150; p. 262.
C. F. Adams Company, Erie, Pa. Silver-plated tableware. No. 78,051; May 31; Gaz. vol. 154; p. 1403.
C. F. Simmons Medicine Company, Incorporated, St. Louis, Mo. Certain remedies. No. 79,527; Sept. 13; Gaz. vol. 158; p. 479.
C. F. Streit Mfg. Co., The, Cincinnati, Ohio. Chairs, davenports, and davenport-beds. No. 78,387; June 7; Gaz. vol. 155; p. 303.
C. J. Root Company, Bristol, Conn. Counting-machines. No. 76,352; Jan. 11; Gaz. vol. 150; p. 565.
C. R. Splivalo & Co. Inc., San Francisco, Cal. Macaroni, spaghetti, and vermicelli. No. 76,989; Mar. 1; Gaz. vol. 152; p. 226.
C. T. Perry & Co., Helena, Mont. Soap powder. No 78,735; July 5; Gaz. vol. 156; p. 255.
Cabell Company, The, Baltimore, Md. Baking-powder. No. 79,541; Sept. 13; Gaz. vol. 158; p. 479.
Cabell Company, The, Baltimore, Md. Imitation vanilla flavoring. No. 79,959; Oct. 25; Gaz. vol. 159; p. 987.
Caddell Polish Company, Ilion, N. Y. Piano and furniture polish. No. 80,032; Nov. 1; Gaz. vol. 160; p. 253.
Cadwell & Parrock, Buffalo, N. Y. Steel and iron. No. 78,680; July 5; Gaz. vol. 156; p. 253.
Cahn, Alvin S., New York, N. Y. Air cleaning devices. No. 79,815; Oct. 11; Gaz. vol. 159; p. 485.
Caldwell Idaho Creamery Co., Ltd., Caldwell, Idaho. Creamery-butter. No. 77,065; Mar. 8; Gaz. vol. 152; p. 483.
Calef, Robert S., Keene, N. H. Chairs. No. 76,271; Jan. 4; Gaz. vol. 150; p. 261.
California Canneries Co., San Francisco, Cal. Canned vegetables. No. 80,304; Dec. 6; Gaz. vol. 161; p. 263.
California Farmers' Union, Inc., Fresno, Cal. Fresh fruit, vegetables, melons, and canned fruits. No. 79,816; Oct. 11; Gaz. vol. 159; p. 485.
California Farmers' Union, Inc., Fresno, Cal. Fresh and dried fruits. No. 79,893; Oct. 18; Gaz. vol. 159; p. 743.
California Fruit Canners Association, San Francisco, Cal. Canned fruit and canned vegetables. No. 76,431; Jan. 18; Gaz. vol. 150; p. 821.
California Fruit Canners Association, San Francisco, Cal. Canned fruits and canned vegetables. No. 76,483; Jan. 18; Gaz. vol. 150; p. 822.
California Fruit Canners Association, San Francisco, Cal. Canned fruits. No. 76,930; Feb. 22; Gaz. vol. 151; p. 1011.
California Fruit Canners Association, San Francisco, Cal. Canned fruits and canned vegetables. Nos. 77,085–6; Mar. 8; Gaz. vol. 152; p. 484.
California Fruit Canners Association, San Francisco, Cal. Canned vegetables and dried fruits. No. 77,171; Mar. 15; Gaz. vol. 152; p. 728.
California Fruit Canners Association, San Francisco, Cal. Canned fruits. Nos. 77,172–3; Mar. 15; Gaz. vol. 152; p. 728.
California Fruit Canners Association, San Francisco, Cal. Canned fruit. No. 77,223; Mar. 22; Gaz. vol. 152; p. 954.
California Fruit Canners Association, San Francisco, Cal. Canned fruit and vegetables. No. 77,291; Mar. 29; Gaz. vol. 152; p. 1219.

Alphabetical list of registrants of trade-marks—Continued.

California Fruit Canners Association, San Francisco, Cal. Canned fruits. No. 78,681; July 5; Gaz. vol. 156; p. 253.
California Fruit Canners Association, San Francisco, Cal. Raisins. No. 79,189; Aug. 16; Gaz. vol. 157; p. 749.
California Fruit Canners Association, San Francisco, Cal. Canned fruits. No. 80,173; Nov. 15; Gaz. vol. 160; p. 769.
California Fruit Canners Association, San Francisco, Cal. Canned fruits and raisins. No. 80,209; Nov. 22; Gaz. vol. 160; p. 1033.
California Glove Company, San Francisco, Cal. Leather gloves. No. 77,513; Apr. 19; Gaz. vol. 153; p. 817.
California Liquid Asphalt Company, Santa Barbara, Cal. Asphalt. No. 78,584; June 28; Gaz. vol. 155; p. 1037.
California Medicinal Springs Co., Deer Lick Springs, Cal. Natural medicinal water. No. 78,063; May 31; Gaz. vol. 154; p. 1403.
California Wine Association, San Francisco, Cal. California port-type wine. No. 77,117; Mar. 8; Gaz. vol. 152; p. 485.
Calvert & Co., F. C., Manchester, England. Soaps. No. 77,702; May 3; Gaz. vol. 154; p. 247.
Calvert & Co., F. C., Manchester, England. Certain chemical and pharmaceutical preparations. No. 78,937; July 26; Gaz. vol. 156; p. 1061.
Calvert Stove and Heating Company, Baltimore, Md. Cooking stoves and ranges. No. 78,682; July 5; Gaz. vol. 156; p. 253.
Cambria Steel Company, Johnstown, Pa. Steel and forgings. Nos. 78,683–6; July 5; Gaz. vol. 156; p. 253.
Cameron, Clarence A., Denver, Colo. Remedy for cancer. No. 77,200; Mar. 22; Gaz. vol. 152; p. 953.
Camors & Co., J. B., New Orleans, La. Wheat-flour. No. 79,960; Oct. 25; Gaz. vol. 159; p. 987.
Camp, Samuel H., Jackson, Mich. Certain clothing. No. 80,033; Nov. 1; Gaz. vol. 160; p. 253.
Campbell Holton & Co., Bloomington, Ill. Canned oysters, prepared mustard, tea, and olives. No. 76,591; Feb. 1; Gaz. vol. 151; p. 189.
Campbell Holton & Co., Bloomington, Ill. Certain foods. No. 76,618; Feb. 1; Gaz. vol. 151; p. 190.
Canfield, Abram L., New York, N. Y. Refrigerators. No. 77,451; Apr. 12; Gaz. vol. 153; p. 541.
Cannon Valley Milling Company, Minneapolis, Minn. Wheat-flour. No. 78,227; May 31; Gaz. vol. 154; p. 1408.
Canton City Bottling Company, The, Canton, Ohio. Ginger-ale, birch and root beer, and lemon-sour. No. 78,309; June 7; Gaz. vol. 155; p. 301.
Canton Cutlery Company, Canton, Ohio. Certain cutlery. No. 79,718; Oct. 4; Gaz. vol. 159; p. 237.
Capewell Horse Nail Company, Hartford, Conn. Horse-nails. No. 79,410; Sept. 6; Gaz. vol. 158; p. 223.
Capewell Horse Nail Company, The, Hartford, Conn. Horse-nails. No. 79,421; Sept. 6; Gaz. vol. 158; p. 224.
Capital City Bottling Works, The, Atlanta, Ga. Tonic beverage and syrup for making the same. No. 78,774; July 12; Gaz. vol. 156; p. 533.
Carbaugh, Wilson R., Saxton, Pa. Remedy for San Jose scale. No. 76,466; Jan. 18; Gaz. vol. 150; p. 822.
Carbone-Licht-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Arc and incandescent electric lamps. No. 76,649; Feb. 8; Gaz. vol. 151; p. 445.
Cardinet Fountain Brush Co., Oakland, Cal. Fountain-brushes. No. 78,399; June 14; Gaz. vol. 155; p. 549.
Carey Salt Company, Hutchinson, Kans. Salt. No. 76,467; Jan. 18; Gaz. vol. 150; p. 822.
Cargill Elevator Co., Minneapolis, Minn. Garden and grass seeds and seed-grains. No. 78,162; May 31; Gaz. vol. 154; p. 1406.
Cargill Elevator Co., Minneapolis, Minn. Seed-grains, grass and garden seeds. Nos. 78,376–7; June 7; Gaz. vol. 155; p. 303.
Carl J. Niemann & Bros., Omaha, Nebr. Sole-leather for shoes. No. 78,198; May 31; Gaz. vol. 154; p. 1407.
Carlyle, Daniel A., Alba, Mo. Remedies for piles. No. 80,461; Dec. 27; Gaz. vol. 161; p. 1039.
Carlyle Milling Company, Carlyle, Ill. Wheat-flour. No. 79,255; Aug. 23; Gaz. vol. 157; p. 995.
Carmel Wine Company, New York, N. Y. Wine-brandy. No. 80,406; Dec. 20; Gaz. vol. 161; p. 749.
Carolina Buggy M'f'g Co., Henderson, N. C. Buggies, carriages, and wagons. No. 78,775; July 12; Gaz. vol. 156; p. 533.
Caron & Co., Narcisse, Methuen, Mass. Remedies for certain diseases. No. 76,961; Mar. 1; Gaz. vol. 152; p. 225.
Carquinez Packing Co., San Francisco, Cal. Canned fruits. Nos. 77,197–8; Mar. 22; Gaz. vol. 152; p. 953.
Carreras & Marcianus Cigarettes Limited, London, England. Tobacco, cigars, cigarettes, and snuff. No. 76,484; Jan. 18; Gaz. vol. 150; p. 822.
Carson Glove Co., San Francisco, Cal. Leather gloves. No. 76,849; Feb. 22; Gaz. vol. 151; p. 1009.
Carson Glove Co., San Francisco, Cal. Leather gloves. No. 77,199; Mar. 22; Gaz. vol. 152; p. 953.
Carson Glove Co., San Francisco, Cal. Leather gloves. No. 77,292; Mar. 29; Gaz. vol. 152; p. 1219.
Carson, Pirie, Scott & Co., Chicago, Ill. Hosiery. No. 77,066; Mar. 8; Gaz. vol. 152; p. 483.
Carson, Pirie, Scott & Co., Chicago, Ill. Handkerchiefs. No. 77,703; May 3; Gaz. vol. 154; p. 247.
Carson, Pirie, Scott & Co., Chicago, Ill. Percales. No. 79,467; Sept. 13; Gaz. vol. 158; p. 477.
Carter-Crume Company, Limited, Toronto, Ontario, Canada, and Niagara Falls, N. Y. Counter sales slips and books. No. 77,184; Mar. 15; Gaz. vol. 152; p. 728.
Carter Rice & Co. Corporation, Boston, Mass. Manila tag paper and cardboard. No. 77,038; Mar. 1; Gaz. vol. 152; p. 227.
Carter, Robert A., Jr., New York, N. Y. Briquets. No. 79,256; Aug. 23; Gaz. vol. 157; p. 995.
Carton Belting Company, Berwick, Me., and Boston, Mass. Stitched canvas and woven belting. No. 77,704; May 3; Gaz. vol. 154; p. 247.
Caruthers-Terry Preserving Company, The, Akron, Ohio. Certain foods. No. 77,861; May 10; Gaz. vol. 154; p. 511.
Casco Bay Packing Company, Freeport, Me. Certain named foods. No. 79,258; Aug. 23; Gaz. vol. 157; p. 995.
Case & Marshall, Incorporated, Burnside, Conn. Fiberboard. No. 79,817; Oct. 11; Gaz. vol. 159; p. 485.
Casein, Limited, London, England. Egg substitutes. No. 76,353; Jan. 11; Gaz. vol. 150; p. 565.
Casella, Daniel A., New York, N. Y. Capsules containing medicine for venereal troubles. No. 76,962; Mar. 1; Gaz. vol. 152; p. 225.
Casmento, John, New York, N. Y. Composite roofing. No. 78,861; July 19; Gaz. vol. 156; p. 793.
Castle Brothers, San Francisco, Cal. Dried fruits and raisins. No. 76,558; Jan. 25; Gaz. vol. 150; p. 1038.
Castle Brothers Incorporated, San Francisco, Cal. Dried fruits and raisins. No. 76,754; Feb. 15; Gaz. vol. 151; p. 725.
Castner, Curran & Bullitt, Philadelphia, Pa.; New York, N. Y.; Boston, Mass.; Norfolk and Roanoke, Va.; Chicago, Ill., and Cincinnati, Ohio. Coal. No. 76,709; Feb. 8; Gaz. vol. 151; p. 447.
Cataract Refining and Manufacturing Company, Buffalo, N. Y. Lubricating and yarn grease. No. 80,268; Nov. 29; Gaz. vol. 160; p. 1267.
Cauchois, Frederic A., New York, N. Y. Cigars and cigarettes. No. 78,585; June 28; Gaz. vol. 155; p. 1037.
Cavagnaro & Co., F. L., New York, N. Y. Machine-belt dressing. No. 80,034; Nov. 1; Gaz. vol. 160; p. 253.
Cayey-Caguas Tobacco Company, New York, N. Y. Cigars, cheroots, and cigarettes. No. 77,514; Apr. 19; Gaz. vol. 153; p. 817.
Cayey-Caguas Tobacco Company, New York, N. Y. Cigars, cheroots, and cigarettes. No. 77,791; May 10; Gaz. vol. 154; p. 509.
Central Candy Company, Chicago, Ill. Candies. No. 79,719; Oct. 4; Gaz. vol. 159; p. 237.
Central Dry Plate Company, St. Louis, Mo. Photographic dry-plates. No. 79,411; Sept. 6; Gaz. vol. 158; p. 223.
Central Foundry Co., New York, N. Y. Plumbers' fittings. No. 77,862; May 10; Gaz. vol. 154; p. 511.
Central Knitting Company, St. Louis, Mo. Boys' and girls' stockings. No. 79,961; Oct. 25; Gaz. vol. 159; p. 987.
Central Mfg. Co., Lockland, Ohio. Fertilizers. No. 79,894; Oct. 18; Gaz. vol. 159; p. 743.
Century Cork Co., New York, N. Y. Composition bottle-stoppers. No. 78,687; July 5; Gaz. vol. 156; p. 253.
Cestero, Fermin, Habana, Cuba, and New York, N. Y. Coin-controlled holders and vending-machines. No. 80,407; Dec. 20; Gaz. vol. 161; p. 749.
Chalmers Motor Co., The, Detroit, Mich. Automobiles. No. 79,102; Aug. 9; Gaz. vol. 157; p. 481.
Chamberlain-Myers Milling Company, The, Kansas City, Mo. Pancake-flour. No. 77,387; Apr. 5; Gaz. vol. 153; p. 267.
Champion Coated Paper Company, The, Hamilton, Ohio. Paper. No. 78,938; July 26; Gaz. vol. 156; p. 1061.
Champion Potato Machinery Co., Hammond, Ind. Vegetable and fruit sprayers. No. 76,272; Jan. 4; Gaz. vol. 150; p. 261.
Champion Safety Lock Company, The, Geneva, Ohio. Certain hardware. No. 78,310; June 7; Gaz. vol. 155; p. 301.
Champlain Valley Association, Plattsburg, N. Y. Certain foods. No. 76,432; Jan. 18; Gaz. vol. 150; p. 821.
Chanaud, John G. M. de, Paris, France. Remedies for gout. No. 77,452; Apr. 12; Gaz. vol. 153; p. 541.
Chapin & Company, Incorporated, Buffalo, N. Y. Horse and stock feed. No. 79,818; Oct. 11; Gaz. vol. 159; p. 485.
Chapin & Hollister Company, Providence, R. I. Certain precious-metal ware. No. 78,064; May 31; Gaz. vol. 154; p. 1403.
Chapman, Charles E., Fullerton, Cal. Oranges, lemons, and walnuts. No. 76,581; Feb. 1; Gaz. vol. 151; p. 189.
Chapman, Senoretta M., New York, N. Y. Face-cream. No. 79,259; Aug. 23; Gaz. vol. 157; p. 995.
Charles A. Bennett Company, Taunton, Mass. Certain precious-metal and plated ware. No. 77,903; May 17; Gaz. vol. 154; p. 831.
Charles A. Schieren Company, New York, N. Y. Leather belting. No. 78,646; June 28; Gaz. vol. 155; p. 1039.

Alphabetical list of registrants of trade-marks—Continued.

Charles B. Byron Company, New York, N. Y. Certain precious-metal articles. No. 79,892; Oct. 18; Gaz. vol. 159; p. 743.
Charles B. Smith Company, Cincinnati, Ohio. Laundry starch. No. 78,868; July 19; Gaz. vol. 156; p. 793.
Charles D. Brown & Company, Boston, Mass. Indurated-fiber articles. No. 80,404; Dec. 20; Gaz. vol. 161; p. 749.
Charles Davison and Company Limited, Ewloe, near Chester, England. Tiles. No. 79,899; Oct. 18; Gaz. vol. 159; p. 743.
Charles H. Besly & Company, Chicago, Ill. Grinding-machines. No. 78,486; June 21; Gaz. vol. 155; p. 795.
Charles H. Besly & Company, Chicago, Ill. Adhesive cement and glue. No. 78,571; June 28; Gaz. vol. 155; p. 1037.
Charles H. Besly & Company, Chicago, Ill. Rust-preventing compound. No. 79,246; Aug. 23; Gaz. vol. 157; p. 995.
Charles H. Besly Company, Chicago, Ill. Lubricating oil and grease. No. 79,640; Sept. 27; Gaz. vol. 158; p. 879.
Charles H. Besly & Company, Chicago, Ill. Abrasive disks. No. 80,026; Nov. 1; Gaz. vol. 160; p. 253.
Charles H. Besly & Company, Chicago, Ill. Grease-cups, disk wheels, and taps. No. 80,102; Nov. 8; Gaz. vol. 160; p. 489.
Charles H. Thuner Furniture & Carpet Co., St. Louis, Mo. Certain furniture. No. 80,250; Nov. 22; Gaz. vol. 160; p. 1034.
Charles Hewitt & Sons Company, Des Moines, Iowa. Canned fruits, vegetables, fish, &c. No. 79,758; Oct. 4; Gaz. vol. 159; p. 238.
Charles Kohlman & Co. Inc., New York, N. Y. Cotton piece goods. No. 79,677; Sept. 27; Gaz. vol. 158; p. 880.
Charles P. Limbert Company, Holland, Mich. Certain furniture. No. 78,531; June 21; Gaz. vol. 155; p. 796.
Charles S. Merton & Co., New York, N. Y. Hats and motor and outing caps. No. 76,444; Jan. 18; Gaz. vol. 150; p. 821.
Charles S. Merton & Co., New York, N. Y. Hats and caps. No. 79,293; Aug. 23; Gaz. vol. 157; p. 996.
Charles Zoller Co., New York, N. Y. Adhesive paste. No. 76,541; Jan. 25; Gaz. vol. 150; p. 1038.
Charles Zoller Co., New York, N. Y. Brewers' enamel paint and varnish. No. 77,515; Apr. 19; Gaz. vol. 153; p. 817.
Chas. S. Boyd Paper Company, Appleton, Wis. Cover-paper. No. 79,646; Sept. 27; Gaz. vol. 158; p. 879.
Chas. W. Shaw Company, Baltimore, Md. Malt-flour. No. 78,459; June 14; Gaz. vol. 155; p. 551.
Chase, Maurice H., New York, N. Y. Shirt-waists. No. 79,103; Aug. 9; Gaz. vol. 157; p. 481.
Chattanooga Medicine Co., Chattanooga, Tenn. Dolls. No. 77,705; May 3; Gaz. vol. 154; p. 247.
Chattanooga Paint Co., Chattanooga, Tenn. Red metallic paints. No. 80,269; Nov. 29; Gaz. vol. 160; p. 1267.
Chemical Manufacturing Company, New York, N. Y. Remedy for cancer. No. 79,895; Oct. 18; Gaz. vol. 159; p. 743.
Chemische Fabrik Auf Actien (vorm. E. Schering), Berlin, Germany. Sedative substances. No. 76,468; Jan. 18; Gaz. vol. 150; p. 822.
Chemische Fabrik Auf Actien (vorm. E. Schering), Berlin, Germany. Photographic developing substances. No. 76,542; Jan. 25; Gaz. vol. 150; p. 1038.
Chemische Fabrik Reisholz G. m. b. H., Dusseldorf-Reisholz, Germany. Sugar and sugar-syrup. No. 79,819; Oct. 11; Gaz. vol. 159; p. 485.
Chemische Fabriken vorm. Weiler-ter Meer, Uerdingen, Germany. Substitute for camphor in celluloid manufacture. No. 79,036; Aug. 2; Gaz. vol. 157; p. 203.
Chemische Werke Kirchhoff & Neirath G. m. b. H., Berlin, Germany. Certain chemicals and chemical preparations. No. 76,808; Feb. 15; Gaz. vol. 151; p. 727.
Chemische Werke vorm. Dr. Heinrich Byk, Berlin, Germany. Diuretic preparations. No. 77,618; Apr. 26; Gaz. vol. 153; p. 1077.
Chemische Werke vorm. Dr. Heinrich Byk, Berlin, Germany. Antiseptic mouth-wash. No. 78,065; May 31; Gaz. vol. 154; p. 1403.
Cherry Cheer Co., The, Sidney, Ohio. Tonic beverage and syrup for making the same. No. 78,776; July 12; Gaz. vol. 156; p. 533.
Cheswell Cotton Mills Co., Westminster, S. C. Drills. No. 77,983; May 24; Gaz. vol. 154; p. 1103.
Chicago Battery Company, Chicago, Ill. Certain electrical apparatus and supplies. Nos. 77,293–4; Mar. 29; Gaz. vol. 152; p. 1219.
Chicago Carbon Company, Chicago, Ill. Dry batteries. No. 76,850; Feb. 22; Gaz. vol. 151; p. 1009.
Chicago Distilling Co., Chicago, Ill. Whisky. No. 80,408; Dec. 20; Gaz. vol. 161; p. 749.
Chicago Fertilizer Works, (not incorporated,) Chicago, Ill. Fertilizers. No. 78,493; June 21; Gaz. vol. 155; p. 795.
Chicago Oyster Pail Company, Chicago, Ill. Paper pails and boxes. No. 78,940; July 26; Gaz. vol. 156; p. 1061.
Chicago Sporting Goods Mfg. Co., Chicago, Ill. Base-ball gloves. No. 80,107; Nov. 8; Gaz. vol. 160; p. 489.
Chicago Spring Butt Company, Chicago, Ill. Hinges. No. 77,295; Mar. 29; Gaz. vol. 152; p. 1219.
Chillington Tool Company, Limited, The, Wolverhampton, England. Metal hoes and shovels. No. 79,468; Sept. 13; Gaz. vol. 158; p. 477.
Chipmans Sons, Chas., Easton and Selinsgrove, Pa. Hosiery. Nos. 76,739–41; Feb. 15; Gaz. vol. 151; p. 725.
Chipman's Sons, Chas., Easton, Pa. Hosiery. Nos. 77,124–5; Mar. 15; Gaz. vol. 152; p. 727.
Chipman's Sons, Chas., Easton, Pa. Hosiery. No. 77,201; Mar. 22; Gaz. vol. 152; p. 953.
Chipman's Sons, Chas., Easton, Pa. Hosiery. No. 77,296; Mar. 29; Gaz. vol. 152; p. 1219.
Chivers & Sons, Limited, Histon, England. Soup-powders. No. 77,516; Apr. 19; Gaz. vol. 153; p. 817.
Christopher & Son, George C., Wichita, Kans. Concrete-mixers and concrete-stone machines. No. 77,155; Mar. 15; Gaz. vol. 152; p. 728.
Chuck Bros. & Davis, New York, N. Y. Certain textiles. No. 76,650; Feb. 8; Gaz. vol. 151; p. 445.
Church & Dwight Company, New York, N. Y. Baking-soda, saleratus, and baking-powder. No. 76,711; Feb. 8; Gaz. vol. 151; p. 447.
Church & Dwight Co., New York, N. Y. Washing-soda. No. 78,163; May 31; Gaz. vol. 154; p. 1406.
Churchill, Durand, San Diego, Cal. Concrete tiles, posts, and blocks. No. 79,037; Aug. 2; Gaz. vol. 157; p. 203.
Churchill, Durand, San Diego, Cal. Building-cement. No. 79,260; Aug. 23; Gaz. vol. 157; p. 995.
Cincinnati Abattoir Company, Cincinnati, Ohio. Certain foods. No. 76,275; Jan. 4; Gaz. vol. 150; p. 261.
Cincinnati Color Company, The, Cincinnati, Ohio. Paints. No. 77,048; Mar. 8; Gaz. vol. 152; p. 483.
Cincinnati Garter Manufacturing Company, Cincinnati, Ohio. Men's garters. No. 78,586; June 28; Gaz. vol. 155; p. 1037.
Cincinnati Sheet Metal & Roofing Company, The, Cincinnati, Ohio. Composition roofing. No. 80,210; Nov. 22; Gaz. vol. 160; p. 1033.
Citizens Canning Company, The, Spiceland, Ind. Canned tomatoes. No. 79,896; Oct. 18; Gaz. vol. 159; p. 743.
Clague, Stanley, Chicago, Ill. Certain chemicals. No. 79,962; Oct. 25; Gaz. vol. 159; p. 987.
Clague, Stanley, Chicago, Ill. Certain non-alcoholic beverages. No. 80,409; Dec. 20; Gaz. vol. 161; p. 749.
Clague, Stanley, Chicago, Ill. Certain clothing. No. 80,410; Dec. 20; Gaz. vol. 161; p. 749.
Clark & Co., W. G., North Attleboro, Mass. Certain precious or plated metal articles. No. 78,400; June 14; Gaz. vol. 155; p. 549.
Clark, Howard J., Orchard Park and Buffalo, N. Y. Hosiery. No. 79,820; Oct. 11; Gaz. vol. 159; p. 485.
Clark Mile-End Spool Cotton Company, The, East Newark, N. J. Cotton thread and yarn. No. 79,257; Aug. 23; Gaz. vol. 157; p. 995.
Clark Paper and Manufacturing Co., Rochester, N. Y. Adhesive paste. No. 78,587; June 28; Gaz. vol. 155; p. 1037.
Clark Roller Awning Company, Dubuque, Iowa. Fire-escapes. No. 77,367; Apr. 5; Gaz. vol. 153; p. 267.
Clark & Snover Co., The, Scranton, Pa. Smoking-tobacco. No. 77,039; Mar. 1; Gaz. vol. 152; p. 227.
Clarke, Callie, Knoxville, Tenn. Liniment for internal and external use. No. 77,706; May 3; Gaz. vol. 154; p. 247.
Clarkson, Geo. T., Pittsburg, Pa. Core-makers' oils. No. 78,941; July 26; Gaz. vol. 156; p. 1061.
Claycraft Brick Company, The, Columbus, Ohio. Brick. No. 79,469; Sept. 13; Gaz. vol. 158; p. 477.
Cleal, Oscar W., Syracuse, N. Y. Wheat-flour. No. 79,649; Sept. 27; Gaz. vol. 158; p. 879.
Clean Sweep Company, Cairo, Ill. Dust-layer and disinfectant. No. 76,712; Feb. 8; Gaz. vol. 151; p. 447.
Clegg, Sherman D., Wheeling, W. Va. Certain named remedies. No. 79,323; Aug. 30; Gaz. vol. 157; p. 1239.
Clemens, Allen B., Columbus, Ohio. Card game. No. 76,565; Feb. 1; Gaz. vol. 151; p. 189.
Clemens, Daniel, Fort Wayne, Ind. Whisky. Nos. 80,211–14; Nov. 22; Gaz. vol. 160; p. 1033.
Cleveland-Akron Bag Co., The, Cleveland, Ohio. Paper bags. No. 76,963; Mar. 1; Gaz. vol. 152; p. 225.
Cleveland Cream Cheese Co., The, Cleveland, Ohio. Cream-cheese. No. 76,679; Feb. 8; Gaz. vol. 151; p. 446.
Cleveland Fillet Company, The, Cleveland, Ohio. Wood and leather fillet. No. 79,470; Sept. 13; Gaz. vol. 158; p. 477.
Cleveland Macaroni Company, The, Cleveland, Ohio. Macaroni paste foods. No. 79,650; Sept. 27; Gaz. vol. 158; p. 879.
Cleveland Macaroni Company, Cleveland, Ohio. Macaronic paste foods. No. 79,821; Oct. 11; Gaz. vol. 159; p. 485.
Cleveland Stamping and Tool Co., Cleveland, Ohio. Enameled metal ware. Nos. 76,273–4; Jan. 4; Gaz. vol. 150; p. 261.
Clifford Brothers, Baltimore, Md. Candies. No. 78,862; July 19; Gaz. vol. 156; p. 793.
Cling-Surface Company, Buffalo, N. Y. Preservatives for transmission belts and ropes. No. 79,104; Aug. 9; Gaz. vol. 157; p. 481.
Clinton Wire Cloth Company, Clinton, Mass. Wire-cloth. No. 80,215; Nov. 22; Gaz. vol. 160; p. 1033.
Clinton Wire Cloth Company, Clinton, Mass. Wire-netting. No. 80,216; Nov. 22; Gaz. vol. 160; p. 1033.

Alphabetical list of registrants of trade-marks—Continued.

Clinton Wire Cloth Company, Clinton, Mass. Wire-cloth. No. 80,217; Nov. 22; Gaz. vol. 160; p. 1033.
Closset & Devers, Portland, Oreg. Tea. No. 77,619; Apr. 26; Gaz. vol. 153; p. 1077.
Closset & Devers, Portland, Oreg. Tea. No. 78,311; June 7; Gaz. vol. 155; p. 301.
Closset & Devers, Portland, Oreg. Baking-powder, ammonia, soda, &c. No. 78,401; June 14; Gaz. vol. 155; p. 549.
Closset & Devers, Portland, Oreg. Spices, flavoring extracts, and bird-seed. No. 79,422; Sept. 6; Gaz. vol. 158; p. 224.
Cluthe, Charles, New York, N. Y. Certain surgical appliances. No. 76,713; Feb. 8; Gaz. vol. 151; p. 447.
Clyde Produce Company, The, Clyde, Ohio. Canned sauerkraut. No. 79,471; Sept. 13; Gaz. vol. 158; p. 477.
Clymer, Edgar E., Philadelphia, Pa. Garment-supporters, belts, &c. No. 77,368; Apr. 5; Gaz. vol. 153; p. 267.
Coal Hill Coal Co., Omaha, Nebr. Anthracite and bituminous coal. No. 77,100; Mar. 8; Gaz. vol. 152; p. 484.
Coast Manufacturing & Supply Co., Fitchburg, Cal. Blasting-fuses. No. 79,822; Oct. 11; Gaz. vol. 159; p. 485.
Coast Products Company, The, St. Louis, Mo. Canned, preserved, and dried fruits and canned vegetables. No. 80,035; Nov. 1; Gaz. vol. 160; p. 253.
Coates & Co., Albert, Manchester, England. Iron and steel. No. 77,707; May 3; Gaz. vol. 154; p. 247.
Cobb, John P., Chicago, Ill. Chocolate-covered biscuits. No. 80,174; Nov. 15; Gaz. vol. 160; p. 769.
Cochrane Manufacturing Co., Dedham, Mass. Handkerchiefs. No. 78,689; July 5; Gaz. vol. 156; p. 253.
Code-Portwood Canning Co., Fruitvale, Cal. Canned fruits and vegetables. No. 77,202; Mar. 22; Gaz. vol. 152; p. 953.
Coe-Stapley Manufacturing Company, The, Bridgeport, Conn. Compound hand-pumps. No. 80,036; Nov. 1; Gaz. vol. 160; p. 253.
Cohen & Co., Lazrus, New York, N. Y. Ladies' cloaks and outer suits. No. 77,792; May 10; Gaz. vol. 154; p. 509.
Cohen, Frank & Company, Brooklyn, N. Y. Certain leather footwear. No. 77,297; Mar. 29; Gaz. vol. 152; p. 1219.
Cohen, Goldman & Co., New York, N. Y. Coats, overcoats, and rain-coats. No. 79,026; July 26; Gaz. vol. 156; p. 1063.
Cohen & Perlstein, New York, N. Y. Women's and misses' bloomers and dress-waists, dresses, and dress-skirts. No. 76,851; Feb. 22; Gaz. vol. 151; p. 1009.
Cohn Goodman Company, Cleveland, Ohio. Certain clothing. No. 77,793; May 10; Gaz. vol. 154; p. 509.
Cohn, Max, Peoria, Ill. Stock food. No. 76,354; Jan. 11; Gaz. vol. 150; p. 565.
Colby Candy Co., Kansas City, Mo. Candies. No. 77,984; May 24; Gaz. vol. 154; p. 1103.
Colgan Gum Co., Louisville, Ky. Chewing-gum. No. 79,558; Sept. 20; Gaz. vol. 158; p. 697.
Colgate & Co., Jersey City, N. J., and New York, N. Y. Certain toilet preparations and fumigating-wafers. No. 77,203; Mar. 22; Gaz. vol. 152; p. 953.
Colgate & Company, Jersey City, N. J., and New York, N. Y. Soaps for toilet use and shaving-soap. No. 78,228; May 31; Gaz. vol. 154; p. 1408.
Collier, Thomas J., Racine, Wis. Incubators and brooders. No. 77,794; May 10; Gaz. vol. 154; p. 509.
Colloseus Cement Company, New York, N. Y. Hydraulic cement. No. 80,218; Nov. 22; Gaz. vol. 160; p. 1033.
Colonial Drug Co., The, Chicago, Ill. Rheumatic remedies. No. 79,823; Oct. 11; Gaz. vol. 159; p. 485.
Colonial Works, Brooklyn, N. Y. Paints. No. 79,412; Sept. 6; Gaz. vol. 158; p. 223.
Colton Brothers Company, The, Bellefontaine, Ohio. Wheat-flour. No. 76,931; Feb. 22; Gaz. vol. 151; p. 1011.
Columbia Cotton Oil and Provision Corporation, Relee, Va. Sugar-cured meats and lard. No. 77,795; May 10; Gaz. vol. 154; p. 509.
Columbia Cotton Oil and Provision Corporation, Relee, Va. Compound of cotton-seed oil, beef-fat, and oleo-stearin. No. 80,345; Dec. 13; Gaz. vol. 161; p. 525.
Columbia Cotton Oil and Provision Corporation, Relee, Va. Lard, sugar-cured meats, and cotton-seed oil. Nos. 80,412–13; Dec. 20; Gaz. vol. 161; p. 749.
Columbia Cotton Oil and Provision Corporation, Relee, Va. Compound of cotton-seed oil, beef-fat, and oleo-stearin. No. 80,414; Dec. 20; Gaz. vol. 161; p. 749.
Columbia River Packers Association, Astoria, Oreg. Canned salmon. No. 76,680; Feb. 8; Gaz. vol. 151; p. 446.
Columbia River Packers Association, Astoria, Oreg. Canned salmon. No. 76,783; Feb. 15; Gaz. vol. 151; p. 726.
Combs Liniment Firm, Little Rock, Ark. Remedy for certain diseases. No. 77,620; Apr. 26; Gaz. vol. 153; p. 1077.
Commercial Acetylene Company, New York, N. Y. Chemicals for the purification of acetylene gas. No. 78,066; May 31; Gaz. vol. 154; p. 1403.
Commercial Fertilizer Co., Montgomery, Ala. Fertilizers. No. 78,690; July 5; Gaz. vol. 156; p. 253.
Compagnie Generale De Phonographes Cinematographes Et Appareils De Precision, Paris, France. Placards advertising kinematograph shows. No. 76,964; Mar. 1; Gaz. vol. 152; p. 225.
Compagnie Generale De Phonographes Cinematographes Et Appareils De Precision, Paris, France. Placards advertising kinematograph shows. No. 77,021; Mar. 1; Gaz. vol. 152; p. 227.
Compañia General de Tabacos de Filipinas, Barcelona, Spain. Cigars. Nos. 79,720–9; Oct. 4; Gaz. vol. 159; p. 237.
Compañia General de Tabacos de Filipinas, Barcelona, Spain. Cigars. Nos. 79,732–6; Oct. 4; Gaz. vol. 159; p. 237.
Compañia General de Tabacos de Filipinas, Barcelona, Spain. Cigars. Nos. 80,037–40; Nov. 1; Gaz. vol. 160; p. 253.
Cone Export and Commission Company, New York, N. Y., and Greensboro, N. C. Cotton shirtings. No. 78,402; June 14; Gaz. vol. 155; p. 549.
Conley, Lewis, Alice, Ky. Imitation maple-sugar. No. 76,525; Jan. 25; Gaz. vol. 150; p. 1037.
Conneaut Company, The, Conneaut, Ohio. Incandescent-electric-light fixtures. Nos. 78,312–13; June 7; Gaz. vol. 155; p. 301.
Conneaut Company, The, Conneaut, Ohio. Electric-light fixtures. No. 78,495; June 21; Gaz. vol. 155; p. 795.
Connecticut Tobacco Corporation, The, East Granby, Conn. Leaf-tobacco for wrappers and fillers. No. 77,224; Mar. 22; Gaz. vol. 152; p. 954.
Connelly Iron Sponge & Governor Company, New York, N. Y. Gas purifying material. No. 77,904; May 17; Gaz. vol. 154; p. 831.
Connolly & Slaven, Galesburg, Ill. Vermin-exterminating preparations. No. 80,219; Nov. 22; Gaz. vol. 160; p. 1033.
Conradsen, A/S, Johs., Stavanger, Norway. Canned anchovies and sardines. No. 79,190; Aug. 16; Gaz. vol. 157; p. 749.
Conroy, Thomas J., New York, N. Y. Certain fishing tackle and supplies. No. 77,298; Mar. 29; Gaz. vol. 152; p. 1219.
Consolidated Cotton Duck Company, Baltimore, Md. Cotton duck. No. 77,985; May 24; Gaz. vol. 154; p. 1103.
Consolidated Electric Appliance Companies L't'd., San Francisco, Cal. Certain electrical apparatus. No. 77,453; Apr. 12; Gaz. vol. 153; p. 541.
Constable, William H., Los Angeles, Cal. Butter. No. 76,784; Feb. 15; Gaz. vol. 151; p. 726.
Consumers Service Company, Inc., South Bend, Ind. Remedy for diseases of the kidneys. No. 78,164; May 31; Gaz. vol. 154; p. 1406.
Continental Can Co., Syracuse, N. Y. Metal cans. No. 76,433; Jan. 18; Gaz. vol. 150; p. 821.
Continental Fruit Packing Co., London, England. Canned fruits and vegetables. Nos. 80,108–9; Nov. 8; Gaz. vol. 160; p. 489.
Continental Mfg. Co., Indianapolis, Ind. Sweeping compounds. No. 76,755; Feb. 15; Gaz. vol. 151; p. 725.
Continental Rubber Company of New York, New York, N. Y. Rubber and rubber gums. No. 79,472; Sept. 13; Gaz. vol. 158; p. 477.
Continental Specialty Co., Dayton, Ohio. Ointment. No. 76,809; Feb. 15; Gaz. vol. 151; p. 727.
Conway, John E., Philadelphia, Pa. Cigars. No. 79,105; Aug. 9; Gaz. vol. 157; p. 481.
Cook & Co., M., Nashville, Tenn. Remedy for headache and indigestion. No. 76,469; Jan. 18; Gaz. vol. 150; p. 822.
Cook, Dora T., Springfield, Mass. Infants' clothing. No. 76,276; Jan. 4; Gaz. vol. 150; p. 261.
Cook, John J., New York, N. Y. Knitted undergarments, hosiery, jerseys, and sweaters. No. 76,434; Jan. 18; Gaz. vol. 150; p. 821.
Coors Company, Adolph, near Golden and Denver, Colo. Beers and malt extracts. No. 79,624; Sept. 20; Gaz. vol. 158; p. 699.
Corcoran, Thomas J., Warren, Mass. Suspenders. No. 77,517; Apr. 19; Gaz. vol. 153; p. 817.
Cordley & Hayes, New York, N. Y. Faucets. No. 79,737; Oct. 4; Gaz. vol. 159; p. 237.
Corlies, Macy & Co., New York, N. Y. Blank books. No. 77,185; Mar. 15; Gaz. vol. 152; p. 729.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Compound of corn and sugar syrup. No. 77,204; Mar. 22; Gaz. vol. 152; p. 953.
Corn Products Refining Company, Jersey City, N. J. Laundry starch. No. 78,067; May 31; Gaz. vol. 154; p. 1403.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Compound of corn and sorghum syrup. No. 78,403; June 14; Gaz. vol. 155; p. 549.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Pearl and powdered starch. No. 79,261; Aug. 23; Gaz. vol. 157; p. 995.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Starches and dextrins for sizing purposes. No. 79,324; Aug. 30; Gaz. vol. 157; p. 1239.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Laundry starch. No. 80,462; Dec. 27; Gaz. vol. 161; p. 1039.
Corner, Richard C., New York, N. Y. Refined petroleum and kerosene. No. 76,872; Feb. 22; Gaz. vol. 151; p. 1009.

Alphabetical list of registrants of trade-marks—Continued.

Corning Glass Works, The, Corning, N. Y. Glass lantern and lamp globes and chimneys. No. 78,942; July 26; Gaz. vol. 156; p. 1061.
Corset H Company, Worcester, Mass. Corsets. No. 78,314; June 7; Gaz. vol. 155; p. 301.
Cortés, Rafael, Lampazos, Mexico. Liniment. No. 80,175; Nov. 15; Gaz. vol. 160; p. 769.
Cosson, Sidney E., Morristown, Tenn. Remedy for all laxed conditions of the bowels. No. 79,963; Oct. 25; Gaz. vol. 159; p. 987.
Costa fu And, Giacomo, Genoa, Italy. Olive-oil. No. 77,417; Apr. 5; Gaz. vol. 153; p. 268.
Cotto-Waxo Company, St. Louis, Mo. Certain powders and compounds. No. 76,413; Jan. 11; Gaz. vol. 150; p. 566.
Coulehan & Hogan, Baltimore, Md. Canned herring-roe. No. 79,559; Sept. 20; Gaz. vol. 158; p. 697.
Coverdale, Philip H., New Orleans, La. Remedy for certain diseases. No. 78,589; June 28; Gaz. vol. 155; p. 1037.
Covert Mfg. Co., Watervliet, N. Y. Harness. No. 76,852; Feb. 22; Gaz. vol. 151; p. 1009.
Covert Mfg. Co., Watervliet, N. Y. Harness hardware. No. 77,454; Apr. 12; Gaz. vol. 152; p. 541.
Cowper-Coles, Sherard O., London, England. Smoke-consuming apparatus. No. 77,299; Mar. 29; Gaz. vol. 152; p. 1219.
Cox Gelatine Company, New York, N. Y. Gelatin. No. 76,681; Feb. 8; Gaz. vol. 151; p. 446.
Cozzens, Issachar, New York, N. Y. Hosiery. No. 79,106; Aug. 9; Gaz. vol. 157; p. 481.
Craighead, Lee D., Wilkinsburg, Pa. Wheat-flour. No. 76,682; Feb. 8; Gaz. vol. 151; p. 446.
Cramer, Patricius A. M., Amsterdam, Netherlands. Sterilized milk. No. 80,463; Dec. 27; Gaz. vol. 161; p. 1039.
Crane Brothers, Westfield, Mass. Writing-paper. No. 77,087; Mar. 8; Gaz. vol. 152; p. 484.
Cravenette Company, Limited, Bradford, England. Hats and caps. No. 80,270; Nov. 29; Gaz. vol. 160; p. 1267.
Crescent Belt Fastener Company, New York, N. Y. Fasteners, plates, clamps, and rivets. No. 79,107; Aug. 9; Gaz. vol. 157; p. 481.
Crescent Oil Company, Indianapolis, Ind. Lubricating-oils. No. 77,518; Apr. 19; Gaz. vol. 153; p. 817.
Crescent Paste Co., Penn township, Allegheny county, Pa. Grease compound for filling pits in cylinders. No. 79,651; Sept. 27; Gaz. vol. 158; p. 879.
Crittenden, Kenneth, Detroit, Mich. Automobiles. No. 78,943; July 26; Gaz. vol. 156; p. 1061.
Crocker Grocery Company, Wilkes-Barre, Pa. Certain food. Nos. 79,738–9; Oct. 4; Gaz. vol. 159; p. 237.
Crocker-McElwain Company, Holyoke, Mass. Writing-paper. Nos. 77,905–8; May 17; Gaz. vol. 154; p. 831.
Crocker-McElwain Company, Holyoke, Mass. Writing-paper. No. 78,068; May 31; Gaz. vol. 154; p. 1403.
Crocker-McElwain Company, Holyoke, Mass. Writing-paper. No. 80,271; Nov. 29; Gaz. vol. 160; p. 1267.
Croeniger & Co., New York, N. Y. Canned peppers. No. 77,621; Apr. 26; Gaz. vol. 153; p. 1077.
Crookston Milling Company. Crookston, Minn. Wheat-flour. No. 79,473; Sept. 13; Gaz. vol. 158; p. 477.
Crosby Roller Milling Company, Topeka, Kans. Wheat-flour. Nos. 76,683–4; Feb. 8; Gaz. vol. 151; p. 446.
Crothers & Co., F. R., Sparta, Ill. Certain agricultural machinery. No. 76,785; Feb. 15; Gaz. vol. 151; p. 726.
Crothersville Canning Company, Crothersville, Ind. Canned lye-hominy. No. 76,277; Jan. 4; Gaz. vol. 150; p. 261.
Crothersville Canning Company, The, Crothersville, Ind. Canned vegetables. No. 78,590; June 28; Gaz. vol. 155; p. 1037.
Crown-Columbia Pulp and Paper Co., San Francisco, Cal. Paper bags. No. 78,231; May 31; Gaz. vol. 154; p. 1408.
Crown-Columbia Pulp and Paper Co., San Francisco, Cal. Paper bags. Nos. 78,378–80; June 7; Gaz. vol. 155; p. 303.
Crown-Columbia Pulp and Paper Co., San Francisco, Cal. Paper bags. Nos. 78,864–5; July 19; Gaz. vol. 156; p. 793.
Crown-Columbia Pulp and Paper Co., San Francisco, Cal. Wrapping-paper. No. 78,866; July 19; Gaz. vol. 156; p. 793.
Crown-Columbia Pulp and Paper Co., San Francisco, Cal. Wrapping-paper. No. 79,191; Aug. 16; Gaz. vol. 157; p. 749.
Crown-Columbia Pulp and Paper Co., San Francisco, Cal. Wrapping-paper. No. 80,110; Nov. 8; Gaz. vol. 160; p. 489.
Crown-Columbia Pulp and Paper Co., San Francisco, Cal. Wrapping-paper. No. 80,347; Dec. 13; Gaz. vol. 161; p. 525.
Crown Cork & Seal Company, The, Baltimore, Md. Bottling machinery and parts of the same. No. 79,897; Oct. 18; Gaz. vol. 159; p. 743.
Crown Overall Manufacturing Co., Cincinnati, Ohio. Overalls. No. 78,315; June 7; Gaz. vol. 155; p. 301.
Crown Overall Manufacturing Co., Cincinnati, Ohio. Shirts. No. 78,496; June 21; Gaz. vol. 155; p. 795.
Crucible Steel Company of America, Pittsburg, Pa. Laminated steel plates, bars, and shapes. No. 76,414; Jan. 11; Gaz. vol. 150; p. 567.
Crystalene Manufacturing Company, Cleveland, Ohio. Washing compounds. No. 76,932; Feb. 22; Gaz. vol. 151; p. 1011.
Cudlipp, Edwin, New York, N. Y. Dental creams. No. 76,965; Mar. 1; Gaz. vol. 152; p. 225.
Cumberland Sound Packing Company, Fernandina, Fla. Canned oysters. No. 76,904; Feb. 22; Gaz. vol. 151; p. 1010.
Cunningham, Frank O., New Bedford, Mass. Scrap-files. No. 79,560; Sept. 20; Gaz. vol. 158; p. 697.
Curran & Barry, New York, N. Y. Cotton duck. No. 76,666; Feb. 8; Gaz. vol. 151; p. 446.
Current Literature Publishing Company, The, New York, N. Y. Monthly magazines. No. 78,591; June 28; Gaz. vol. 155; p. 1037.
Currick, Leiken & Bandler, New York, N. Y. Men's waistcoats. No. 78,691; July 5; Gaz. vol. 156; p. 253.
Curry, Lewis V., Bethlehem, Pa. Candy. No. 77,156; Mar. 15; Gaz. vol. 152; p. 728.
Cushman & Denison Manufacturing Company, New York, N. Y. Game. No. 76,756; Feb. 15; Gaz. vol. 151; p. 725.
Cusimano & Co., A., New Orleans, La. Tomato-paste. No. 78,165; May 31; Gaz. vol. 154; p. 1406.
Cusimano & Co., A., New Orleans, La. Snuff. No. 78,777; July 12; Gaz. vol. 156; p. 533.
Cusimano & Co., A., New Orleans, La. Ragout of egg-plant. No. 80,415; Dec. 20; Gaz. vol. 161; p. 749.
Cutaway Harrow Co., The, Haddam, Conn. Harrows, revolving plows, cultivators, and seeders. No. 77,388; Apr. 5; Gaz. vol. 153; p. 267.
D. Anderson & Son, Limited, Belfast, Ireland. Roofing, sarking, sheathing, and lining felts. No. 79,097; Aug. 9; Gaz. vol. 157; p. 481.
D. Anderson & Son, Limited, Belfast, Ireland. Anticorrosive paints. No. 79,805; Oct. 11; Gaz. vol. 159; p. 485.
D. E. Foote & Company, Inc., Baltimore, Md. Canned fruits, vegetables, &c. Nos. 77,989–90; May 24; Gaz. vol. 154; p. 1103.
D. L. Auld Company, The, Columbus, Ohio. Certain jewelry. No. 76,786; Feb. 15; Gaz. vol. 151; p. 726.
Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-stackers. No. 79,898; Oct. 18; Gaz. vol. 159; p. 743.
Dakota Improved Seed Company, Mitchell, S. D. Seeds, plants, and bulbs. No. 77,986; May 24; Gaz. vol. 154; p. 1103.
Dana Manufacturing Company, Norwood, Ohio. Ice-cream freezers. No. 76,651; Feb. 8; Gaz. vol. 151; p. 445.
Dando Printing & Publishing Company, The, Philadelphia, Pa. Combined letter-head and container for advertising-cuts. No. 77,863; May 10; Gaz. vol. 154; p. 511.
Danenberg, Ury, Washington, D. C. Roasted coffee and tea. No. 78,778; July 12; Gaz. vol. 156; p. 533.
Daniel Green Felt Shoe Company, New York and Dolgeville, N. Y. Shoes and slippers. No. 80,312; Dec. 6; Gaz. vol. 161; p. 263.
Danker & Marston, Boston, Mass. Certain gums. No. 78,166; May 31; Gaz. vol. 154; p. 1406.
Danker & Marston, Boston, Mass. Certain chemicals. No. 79,192; Aug. 16; Gaz. vol. 157; p. 749.
Danville Knitting Mills, Danville, Va. Hosiery. No. 80,464; Dec. 27; Gaz. vol. 161; p. 1039.
Danwitz, August, New York, N. Y. Laundry blue. No. 76,470; Jan. 18; Gaz. vol. 150; p. 822.
Darling Candy Company, The, Toledo, Ohio. Candies. No. 77,519; Apr. 19; Gaz. vol. 153; p. 817.
Darling Candy Company, The, Toledo, Ohio. Chocolate candies. No. 77,622; Apr. 26; Gaz. vol. 153; p. 1077.
Darling Pump & Man'fg. Co., (Limited,) The, Williamsport, Pa. Oil and Artesian well pumps and parts of same. No. 78,232; May 31; Gaz. vol. 154; p. 1408.
Daudt Glass & Crockery Company, The, Toledo, Ohio. Glassware. No. 78,867; July 19; Gaz. vol. 156; p. 793.
Daussa & Co., P., New York, N. Y. Vermicelli and macaroni. No. 77,708; May 3; Gaz. vol. 154; p. 247.
Davidson, Frank, Brooklyn, N. Y. Compounds for keeping lenses and plate-glass clear. No. 78,692; July 5; Gaz. vol. 156; p. 253.
Davis Brothers, Oskaloosa, Iowa. Cigars and tobacco. No. 79,262; Aug. 23; Gaz. vol. 157; p. 995.
Davis Chemical Company, The, Denver, Colo. Brushes. No. 78,404; June 14; Gaz. vol. 155; p. 549.
Davis, Horwich & Steinman, Inc., Chicago, Ill. Bedsteads. No. 76,278; Jan. 4; Gaz. vol. 150; p. 261.
Davis and Lawrence Co., New York, N. Y. Remedy for malaria. No. 79,652; Sept. 27; Gaz. vol. 158; p. 879.
Davis Milling Company, St. Joseph, Mo. Wheat-flour. No. 76,347; Jan. 4; Gaz. vol. 150; p. 263.
Davis Milling Company, The, St. Joseph, Mo. Wheat-flour. No. 77,520; Apr. 19; Gaz. vol. 153; p. 817.
Davis Milling Company, The, St. Joseph, Mo. Wheat-flour. No. 77,709; May 3; Gaz. vol. 154; p. 247.
Davis Milling Company, The, St. Joseph, Mo. Wheat-flour. No. 78,869; July 19; Gaz. vol. 156; p. 793.

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Davis Milling Company, The, St. Joseph, Mo. Wheat-flour. No. 79,039; Aug. 2; Gaz. vol. 157; p. 203.
Davis, Roy A., Gibbon, Nebr. Wheat-flour. No. 78,665; June 28; Gaz. vol. 155; p. 1039.
Davis Sewing Machine Company, Dayton, Ohio. Sewing-machines. No. 76,435; Jan. 18; Gaz. vol. 150; p. 821.
Dayton Art Marble and Construction Co., The, Dayton, Ohio. Artificial stone. No. 79,474; Sept. 13; Gaz. vol. 158; p. 477.
Dayton Evaporating & Packing Co., Dayton, Oreg. Evaporated and granulated vegetables and dried prunes. No. 76,990; Mar. 1; Gaz. vol. 152; p. 226.
Dayton Spice Mills Co., The, Dayton, Ohio. Roasted coffee. No. 79,040; Aug. 2; Gaz. vol. 157; p. 203.
De la Prida, Baldomero, Mexico, Mexico. Hair-tonics. No. 79,693; Sept. 27; Gaz. vol. 158; p. 880.
De la Teyssonnière, Albéric, Pau, France. Remedies for diseases of dogs. No. 79,451; Sept. 6; Gaz. vol. 158; p. 225.
De Long Hook and Eye Company, Philadelphia, Pa. Rebounding toys. No. 76,652; Feb. 8; Gaz. vol. 151; p. 445.
De Long Seaman Co., Boston, Mass. Canned sardines. No. 78,405; June 14; Gaz. vol. 155; p. 549.
De Marco, Antonio, New York, N. Y. Cigars and smoking-tobacco. No. 78,014; May 24; Gaz. vol. 154; p. 1104.
De Marco, Antonio, New York, N. Y. Cigars. No. 80,416; Dec. 20; Gaz. vol. 161; p. 749.
De Meridor Co., The, Scranton, Pa.; New York, N. Y., and Paris, France. Toilet cream. No. 78,779; July 12; Gaz. vol. 156; p. 533.
De Nobili & Co., Prospero, New York, N. Y. Turkish cigarettes. No. 79,193; Aug. 16; Gaz. vol. 157; p. 749.
De Vore, Primrose R., Columbus, Ohio. Fire and water proof cement. No. 77,710; May 3; Gaz. vol. 154; p. 247.
De Witt C. Wheeler Inc., New York, N. Y. Photographs and lantern-slides. No. 77,300; Mar. 29; Gaz. vol. 152; p. 1219.
Deal, Enan M., Philadelphia, Pa. Boiler compounds. No. 76,810; Feb. 15; Gaz. vol. 151; p. 727.
Dean Electric Company, The, Elyria, Ohio. Electric insulating materials. No. 78,498; June 21; Gaz. vol. 155; p. 795.
Dean Electric Company, The, Elyria, Ohio. Telephones, police-boxes, jack-boxes, &c. No. 79,263; Aug. 23; Gaz. vol. 157; p. 995.
Dean Lumber Company, Elmira, N. Y. Prepared composition roofing. No. 79,740; Oct. 4; Gaz. vol. 159; p. 237.
Dean, Teresa, New York, N. Y. Weekly magazines. No. 79,653; Sept. 27; Gaz. vol. 158; p. 879.
Dechman Coffee & Spice Mills, San Antonio, Tex. Blended roasted coffee. No. 77,353; Mar. 29; Gaz. vol. 152; p. 1221.
Deerlick Oil Stone Company, The, Chagrin Falls, Ohio. Sharpening-stones and razor-hones. No. 79,325; Aug. 30; Gaz. vol. 157; p. 1239.
Deerlick Oil Stone Company, The, Chagrin Falls, Ohio. Certain kinds of stones and razor-hones. No. 80,220; Nov. 22; Gaz. vol. 160; p. 1033.
Deitsch Brothers, New York, N. Y. Brushes. No. 80,305; Dec. 6; Gaz. vol. 161; p. 263.
Delacour Brothers Limited, London, England. Brier-wood tobacco-pipes. No. 79,654; Sept. 27; Gaz. vol. 158; p. 879.
Delta Star Electric Co., Chicago, Ill. Certain electrical supplies, &c. No. 76,338; Jan. 4; Gaz. vol. 150; p. 263.
Deming & Gould Co., Chicago, Ill. Canned salmon. Nos. 78,945–54; July 26; Gaz. vol. 156; p. 1061.
Deming & Gould Co., Chicago, Ill. Canned salmon. No. 79,326; Aug. 30; Gaz. vol. 157; p. 1239.
Deming, William L., Salem, Ohio. Games. No. 80,417; Dec. 20; Gaz. vol. 161; p. 749.
Deniéport, Edouard, Suresnes, France. Certain electrical supplies. No. 76,853; Feb. 22; Gaz. vol. 151; p. 1009.
Dennis Manufacturing Company, Sutter Creek and Berkeley, Cal. Ointment. No. 79,741; Oct. 4; Gaz. vol. 159; p. 237.
Déon, Camille, Sens, France. Hare and rabbit skins. No. 80,041; Nov. 1; Gaz. vol. 160; p. 253.
Deperdussin, Hippolite, Paris, France, assignor to The Pasteur Vaccine Company Limited, London, England. Biological or bacteriological products capable of producing fermentation in food substances. No. 76,356; Jan. 11; Gaz. vol. 150; p. 565.
Deperdussin, Hippolyte J. C., Paris, France, assignor to The Pasteur Vaccine Company Limited, London, England. Certain serums, vaccines, and viruses. No. 76,933; Feb. 22; Gaz. vol. 151; p. 1011.
Dermato Salve Co., The, Columbus, Ohio. Salves. No. 80,111; Nov. 8; Gaz. vol. 160; p. 489.
Destefano, Francesco, San Francisco, Cal. Medicinal herb extracts and compounds thereof. No. 79,041; Aug. 2; Gaz. vol. 157; p. 203.
Detroit-Dearborn Motor Car Co., Detroit, Mich. Automobiles. No. 80,306; Dec. 6; Gaz. vol. 161; p. 263.
Detroit Oak Belting Co., Detroit, Mich. Leather belting. No. 76,279; Jan. 4; Gaz. vol. 150; p. 261.
Detroit Overall Company, Detroit, Mich. Overalls and workingmen's coats. No. 76,742; Feb. 15; Gaz. vol. 151; p. 725.
Deutsche Waffen- & Fahrrad-Fabriken H. Burgsmüller & Söhne, Kreiensen, Germany. Firearms and gunpowder. No. 79,108; Aug. 9; Gaz. vol. 157; p. 481.
Devine, Patrick E., New York, N. Y. Remedy for rheumatism. No. 80,348; Dec. 13; Gaz. vol. 161; p. 525.
Dewey Bros. Company, The, Blanchester, Ohio. Wheat-flour. No. 76,905; Feb. 22; Gaz. vol. 151; p. 1010.
Dewsbury & Son, John, Walsall, England. Saddlery and harness hardware. No. 80,418; Dec. 20; Gaz. vol. 161; p. 749.
Dexter, George B., Boston, Mass. Clothes-brushes. No. 79,264; Aug. 23; Gaz. vol. 157; p. 995.
Diamond Crystal Salt Co., St. Clair, Mich. Salt. No. 78,167; May 31; Gaz. vol. 154; p. 1406.
Diamond Crystal Salt Company, St. Clair, Mich. Salt. No. 80,465; Dec. 27; Gaz. vol. 161; p. 1039.
Diamond Expansion Bolt Co., New York, N. Y. Cable rings and hangers. No. 78,592; June 28; Gaz. vol. 155; p. 1037.
Diamond Point Pen Company, New York, N. Y. Fountain-pens and pen-points. No. 79,475; Sept. 13; Gaz. vol. 158; p. 477.
Diamond Show Case Company, The, Cleveland, Ohio. Glass show-cases. Nos. 79,900–1; Oct. 18; Gaz. vol. 159; p. 743.
Diamond Steel Truck Co., Grand Rapids, Mich. Furniture-casters. No. 78,168; May 31; Gaz. vol. 154; p. 1406.
Diamond Whip Company, Chicago, Ill. Drumheads. No. 76,436; Jan. 18; Gaz. vol. 150; p. 821.
Dickelman Mfg. Co., The, Forest, Ohio. Certain metal ware. No. 79,109; Aug. 9; Gaz. vol. 157; p. 481.
Dickey, John R., Bristol, Tenn. Eye-water. No. 76,355; Jan. 11; Gaz. vol. 150; p. 565.
Dickinson & Co., Eureka, Ill. Canned vegetables. Nos. 79,902–3; Oct. 18; Gaz. vol. 159; p. 743.
Dickinson Drug Company, The, New Britain, Conn. Aseptic soap. No. 80,349; Dec. 13; Gaz. vol. 161; p. 525.
Didisheim & Bro., Hipp., New York, N. Y. Watches and watch-movements. No. 77,711; May 3; Gaz. vol. 154; p. 247.
Diehm-Fansler Grocer Company, East St. Louis, Ill. Canned vegetables and fish. No. 78,695; July 5; Gaz. vol. 156; p. 253.
Dielhenn Manufacturing Co., The, Massillon, Ohio. Petticoats and underskirts. No. 80,176; Nov. 15; Gaz. vol. 160; p. 769.
Dienstfertig, Max, Fraustadt, Germany. Remedy for diseases of swine. No. 79,656; Sept. 27; Gaz. vol. 158; p. 879.
Diez, Leon B., New Orleans, La. Remedy for colds, croup, and pain. No. 77,987; May 24; Gaz. vol. 154; p. 1103.
Diffusible Tonic Co., Sturgis, Mich. Medicine for chills, malaria, &c. No. 78,593; June 28; Gaz. vol. 155; p. 1037.
Dilliard Remedy Co., East Bangor, Pa. Remedy for certain diseases. No. 78,870; July 19; Gaz. vol. 156; p. 793.
Dilling & Company, Indianapolis, Ind. Chocolates. No. 79,328; Aug. 30; Gaz. vol. 157; p. 1239.
Dimitroff, Strezo, Steelton, Pa. Bread. No. 80,042; Nov. 1; Gaz. vol. 160; p. 253.
Dinsmore, William S., Los Angeles, Cal. Monthly magazines. No. 78,234; May 31; Gaz. vol. 154; p. 1408.
District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C. Paper. No. 80,466; Dec. 27; Gaz. vol. 161; p. 1039.
Dittlinger Lime Company, New Braunfels, Tex. Hydrated lime. No. 76,582; Feb. 1; Gaz. vol. 151; p. 189.
Dixie Cotton Felt Mattress Company, Chicago, Ill. Mattresses, box-springs, and pillows. No. 80,307; Dec. 6; Gaz. vol. 161; p. 263.
Dobrocinski, Casper J., Schenectady, N. Y. Medicament for certain diseases. No. 76,280; Jan. 4; Gaz. vol. 150; p. 261.
Dokkenwadel, Frederick G., Baltimore, Md. Fertilizers. No. 77,694; Apr. 26; Gaz. vol. 153; p. 1079.
Donmeyer, Gardner & Co., Peoria, Ill. Wheat-flour. Nos. 78,169–71; May 31; Gaz. vol. 154; p. 1406.
Doolittle, George E., Washington, D. C. Candies. No. 79,329; Aug. 30; Gaz. vol. 157; p. 1239.
Dormant Sod Company, Chicago, Ill. Mixture of grass-seed and manure. No. 80,112; Nov. 8; Gaz. vol. 160; p. 489.
Dorothy Dodd Shoe Co., Boston, Mass. Polishes and dressings. No. 78,871; July 19; Gaz. vol. 156; p. 793.
Dorsey Printing Co., The, Dallas, Tex. Carbon-paper and type-writer ribbons. No. 79,194; Aug. 16; Gaz. vol. 157; p. 749.
Dorsey Printing Company, The, Dallas, Tex. Lead-pencils. No. 77,088; Mar. 8; Gaz. vol. 152; p. 484.
Doughty, George R., Cleveland, Ohio. Sweetened food composition. No. 79,561; Sept. 20; Gaz. vol. 158; p. 697.
Dover Stamping and Manufacturing Company, Cambridge, Mass. Certain metal articles. No. 76,391; Jan. 11; Gaz. vol. 150; p. 566.
Dover Stamping and Manufacturing Company, Cambridge, Mass. Funnels. No. 79,110; Aug. 9; Gaz. vol. 157; p. 481.

Alphabetical list of registrants of trade-marks—Continued.

Dowd & Scally, Fort Dodge, Iowa. Teas, coffees, cocoa, and chocolate. No. 80,467; Dec. 27; Gaz. vol. 161; p. 1039.

Downing, Clark & Co., New York, N. Y. Worsted and woolen piece goods. No. 78,594; June 28; Gaz. vol. 155; p. 1037.

Dr. A. Herbrand, G. m. b. H., Berlin, Germany. Composition for diminishing the noxious effects of nicotin. No. 80,359; Dec. 13; Gaz. vol. 161; p. 525.

Dr. J. F. True & Co., Inc., Auburn, Me. Vermifuge and remedies for certain diseases. No. 80,092; Nov. 1; Gaz. vol. 160; p. 255.

Dr. Rickmann & Rappe, G. m. b. H., Chemische Fabrik, Kalk, near Cologne, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Certain chemical substance. No. 79,933; Oct. 18; Gaz. vol. 159; p. 744.

Dresdner Reiseutensilien-& Lederwarenfabrik, G. L. Lippold, Dresden, Germany. Traveling-bags and trunks. No. 77,623; Apr. 26; Gaz. vol. 153; p. 1077.

Dresskell Paper Co, Detroit, Mich. Writing and printing paper. No. 78,956; July 26; Gaz. vol. 156; p. 1062.

Dreyfus Brothers, Montgomery, Ala. Candy. No. 77,301; Mar. 29; Gaz. vol. 152; p. 1219.

Driscol, Church & Hall, New Bedford, Mass. Canned vegetables. No. 79,476; Sept. 13; Gaz. vol. 158; p. 477.

Driver-Harris Wire Co., Harrison, N. J. Uninsulated metallic wire and metallic ribbons. No. 77,049; Mar. 8; Gaz. vol. 152; p. 483.

Driver-Harris Wire Co., Harrison, N. J. Uninsulated metallic wire. No. 77,050; Mar. 8; Gaz. vol. 152; p. 483.

Droescher, Severin R., New York, N. Y. Hones, oil and whet stones. No. 80,308; Dec. 6; Gaz. vol. 161; p. 263.

Dry Milk Company, New York, N. Y. Desiccated milk or milk powder. Nos. 76,583–4; Feb. 1; Gaz. vol. 151; p. 189.

Dry Milk Company, The, New York, N. Y. Desiccated milk. No. 79,195; Aug. 16; Gaz. vol. 157; p. 749.

Dubied & Co., Edouard, Couvet and Aux Isles, Couvet, Switzerland. Certain valves and hardware. No. 78,499; June 21; Gaz. vol. 155; p. 795.

Duckworth, Joel T., Springfield, Mo. Remedy for certain diseases. No. 77,521; Apr. 19; Gaz. vol. 153; p. 817.

Ducommun, Georges, Le Locle, Switzerland. Watches, watch movements, dials, and cases. No. 79,196; Aug. 16; Gaz. vol. 157; p. 749.

Dudley, Charles H., Hanover, N. H. Certain clothing. No. 79,657; Sept. 27; Gaz. vol. 158; p. 879.

Duff & Sons, P., Pittsburg, Pa. Canned sardines. No. 78,292; May 31; Gaz. vol. 154; p. 1409.

Duff & Sons, P., Pittsburg, Pa. Canned sardines. No. 79,964; Oct. 25; Gaz. vol. 159; p. 987.

Duff & Sons, P., Pittsburg, Pa. Canned sardines. No. 80,043; Nov. 1; Gaz. vol. 160; p. 253.

Duffy, Leinster, Newbern, N. C. Remedy for certain diseases. No. 76,392; Jan. 11; Gaz. vol. 150; p. 566.

Duke H. Watson Co., The, Findlay, Ohio. Blemish-eradicator. No. 80,395; Dec. 13; Gaz. vol. 161; p. 526.

Dunn, David C., assignor to The Laxamint Company, Lima, Ohio. Laxative medicine. No. 77,522; Apr. 19; Gaz. vol. 153; p. 817.

Dunn, Katie E., Washington, D. C. Toilet preparations. No. 78,316; June 7; Gaz. vol. 155; p. 301.

Dunning, Delno S., New York, N. Y., assignor to Selery Soda Company. Headache remedy. No. 76,281; Jan. 4; Gaz. vol. 150; p. 261.

Duplan Silk Co., New York, N. Y. Broad silk piece goods. No. 78,072; May 31; Gaz. vol. 154; p. 1403.

Duran, Andrew J., South Boston, Mass. Magazine. No. 79,658; Sept. 27; Gaz. vol. 158; p. 879.

Durlacher Bros., Hamburg, Germany. Still wine, sparkling wine, and fruit wine. No. 76,906; Feb. 22; Gaz. vol. 151; p. 1010.

Dusenberg, Theodore C., Philadelphia, Pa. Candy. No. 80,468; Dec. 27; Gaz. vol. 161; p. 1039.

Dwinell-Wright Company, Boston, Mass. Tea. No. 77,624; Apr. 26; Gaz. vol. 153; p. 1077.

Dwinell-Wright Company, Boston, Mass. Coffee. No. 77,625; Apr. 26; Gaz. vol. 153; p. 1077.

E. Kirstein's Sons Company, Rochester, N. Y. Lenses. No. 80,282; Nov. 29; Gaz. vol. 160; p. 1267.

E. B. Millar & Co., Chicago, Ill. Coffee. Nos. 79,071–2; Aug. 2; Gaz. vol. 157; p. 204.

E. B. Millar & Co., Chicago, Ill. Coffee. No. 79,996; Oct. 25; Gaz. vol. 159; p. 988.

E. C. Harley Co., The, Dayton, Ohio. Coffee. No. 78,001; May 24; Gaz. vol. 154; p. 1103.

E. E. Lloyd Paper Co., Chicago, Ill. Writing-paper. No. 76,323; Jan. 4; Gaz. vol. 150; p. 262.

E. E. Lloyd Paper Co., Chicago, Ill. Writing-paper. No. 76,543; Jan. 25; Gaz. vol. 150; p. 1038.

E. I. du Pont de Nemours Powder Company, Hoboken, N. J., and Wilmington, Del. Smokeless powder. No. 79,005; July 26; Gaz. vol. 156; p. 1063.

E. I. du Pont de Nemours Powder Company, Hoboken, N J., and Wilmington, Del. Smokeless powder. No. 79,965; Oct. 25; Gaz. vol. 159; p. 987.

E. I. du Pont de Nemours Powder Company, Hoboken, N. J., and Wilmington, Del. Smokeless powder. No. 80,044; Nov. 1; Gaz. vol. 160; p. 253.

E. M. Townsend Co., New York, N. Y. Hosiery. Nos. 76,316–17; Jan. 4; Gaz. vol. 150; p. 262.

E. O. Smith Company, Springfield, Mass. Wheat-flour. No. 79,866; Oct. 11; Gaz. vol. 159; p. 486.

E. R. Thomas Motor Company, Buffalo, N. Y. Automobiles. No. 79,534; Sept. 13; Gaz. vol. 158; p. 479.

E. W. Bennett and Company, San Francisco, Cal. Metal-polish. No. 76,907; Feb. 22; Gaz. vol. 151; p. 1010.

E. W. Gates & Son Company, Richmond, Va. Canned fruits and vegetables. No. 77,796; May 10; Gaz. vol. 154; p. 509.

E-Z Opener Bag Company, Taylorville, Ill. Paper bags. No. 77,712; May 3; Gaz. vol. 154; p. 247.

Eagle Glass & Mfg. Co., Wellsburg, W. Va. Oil-cans. No. 78,780; July 12; Gaz. vol. 156; p. 533.

Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 76,544; Jan. 25; Gaz. vol. 150; p. 1038.

Eagle Pencil Company, New York, N. Y. Certain articles of stationery. No. 76,908; Feb. 22; Gaz. vol. 151; p. 1010.

Eagle Pencil Company, New York, N. Y. Metallic pens. No. 77,225; Mar. 22; Gaz. vol. 152; p. 954.

Eagle Pencil Company, New York, N. Y. Lead-pencils. Nos. 77,797–9; May 10; Gaz. vol. 154; p. 509.

Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 78,317; June 7; Gaz. vol. 155; p. 301.

Eagle Pencil Company, New York, N. Y. Penholders. No. 79,197; Aug. 16; Gaz. vol. 157; p. 749.

East Jersey Match Company, Garfield, N. J. Matches. No. 79,824; Oct. 11; Gaz. vol. 159; p. 485.

Eastburn & Reeves, Sloatsburg, N. Y. Water-closet-seat lids. No. 77,126; Mar. 15; Gaz. vol. 152; p. 727.

Eastman, Geo. P., New Orleans, La. Rice. No. 77,800; May 10; Gaz. vol 154; p. 509.

Eastman Kodak Co., Rochester, N. Y. Photographic apparatus. No. 77,089; Mar. 8; Gaz. vol. 152; p. 484.

Eastman Kodak Co., Rochester, N. Y. Certain photographic apparatus and supplies. No. 77,226; Mar. 22; Gaz. vol. 152; p. 954.

Eastman Kodak Co., Rochester, N. Y. Chemicals used in treating photographic prints and negatives. No. 78,872; July 19; Gaz. vol. 156; p. 793.

Eastman Kodak Co., Rochester, N. Y. Photographic paper. Nos. 79,198–9; Aug. 16; Gaz. vol. 157; p. 749.

Eberhard Mfg. Co., Cleveland, Ohio. Certain harness hardware. No. 76,393; Jan. 11; Gaz. vol. 150; p. 566.

Eberhard Mfg. Co., Cleveland, Ohio. Certain harness hardware. Nos. 77,205–9; Mar. 22; Gaz. vol. 152; p. 953.

Ebersold, Steinmetz & Ebersold, New York, N. Y. Remedy for poison-ivy or poison-oak. No. 78,596; June 28; Gaz. vol. 155; p. 1038.

Ebstein Bros., New York, N. Y. Certain tools. No. 77,909; May 17; Gaz. vol. 154; p. 831.

Eckes, John T., Minneapolis, Minn. Toilet preparations and medicines. No. 79,562; Sept. 20; Gaz. vol. 158; p. 697.

Eckman Mf'g. Co., Philadelphia, Pa. Remedy for certain diseases. No. 76,585; Feb. 1; Gaz. vol. 151; p. 189.

Eclipse White Lead and Color Company, Brooklyn, N. Y. White lead. No. 78,406; June 14; Gaz. vol. 155; p. 549.

Economy Electric Company, Brooklyn, N. Y. Arc-lamps. Nos. 79,042–3; Aug. 2; Gaz. vol. 157; p. 203.

Edgar Allen & Co. Ld., Sheffield, England, Certain tools. No. 76,685; Feb. 8; Gaz. vol. 151; p. 446.

Edgar Allen & Co. Limited, Sheffield, England. Metal castings and forgings. No. 78,670; July 5; Gaz. vol. 156; p. 253.

Edible Products Company, Jersey City, N. J., and New York, N. Y. Refined bean-oil. No. 78,873; July 19; Gaz. vol. 156; p. 793.

Edison Manufacturing Company, West Orange, N. J. Moving-picture machines. No. 77,713; May 3; Gaz. vol. 154; p. 247.

Educational Tablet Co., Benton Harbor, Mich. Writing-tablets, composition and blank books, and writing-paper. No. 76,559; Jan. 25; Gaz. vol. 150; p. 1038.

Educational Tablet Co., Benton Harbor, Mich. Writing-tablets, composition-books, and writing-paper. No. 77,040; Mar. 1; Gaz. vol. 152; p. 227.

Edward Cook and Company, Limited, London, England. Disinfectants. No. 76,910; Feb. 22; Gaz. vol. 151; p. 1010.

Edward Lefi Co., Gloversville, N. Y. Leather and textile gloves and mittens. No. 76,667; Feb. 8; Gaz. vol. 151; p. 446.

Edwards, R. G., London, England. Shampoo-powder. No. 79,966; Oct. 25; Gaz. vol. 159; p. 987.

Edwardsville Milling Company, Edwardsville, Ill. Wheat-flour. No. 76,586; Feb. 1; Gaz. vol. 151; p. 189.

Edwin C. Burt Company, New York, N. Y. Boots and shoes and slippers. No. 79,958; Oct. 25; Gaz. vol. 159; p. 987.

Edwin J. Gillies & Co. of Kentucky, Louisville, Ky., and New York, N. Y. Blended roasted coffee. No. 78,413; June 14; Gaz. vol. 155; p. 549.

Egerton Burnett, Ltd., Wellington, England. Serges. No. 76,324; Jan. 4; Gaz. vol. 150; p. 262.

Ehret Magnesia Manufacturing Company, Philadelphia, Pa. Heat-non-conducting coverings. No. 78,500; June 21; Gaz. vol. 155; p. 795.

Alphabetical list of registrants of trade-marks—Continued.

Ehrich & Graetz, Berlin, Germany. Certain electrical supplies. No. 78,957; July 26; Gaz. vol. 156; p. 1062.
Eising & Co., E., New York, N. Y. Whisky. No. 77,864; May 10; Gaz. vol. 154; p. 511.
El Quebracho Sociedad Anonima, Buenos Ayres, Argentina. Tanning compounds. No. 78,075; May 31; Gaz. vol. 154; p. 1403.
El Perfecto Veda Rose Co., The, San Francisco, Cal. Toilet rouge. No. 79,825; Oct. 11; Gaz. vol. 159; p. 485.
Elder-Harrison Company, Baltimore, Md. French olive-oil. No. 78,781; July 12; Gaz. vol. 156; p. 533.
Eldred, Willard H., Battle Creek, Mich. Horse equipments and lap-dusters. No. 80,469; Dec. 27; Gaz. vol. 161; p. 1039.
Electr. Signal- und Kraftanlagen Walter Blut, Berlin, Germany. Electric apparatus and supplies. No. 79,564; Sept. 20; Gaz. vol. 158; p. 697.
Electric Compound Co., Los Angeles, Cal. Cleaning substances and compounds for laundry purposes. No. 77,910; May 17; Gaz. vol. 154; p. 831
Electric Protection Company, Minneapolis, Minn. Steel shelving and filing-cases. No. 77,801; May 10; Gaz. vol. 154; p. 509.
Electric Renovator Manufacturing Co., Pittsburg, Pa. Pneumatic cleaning and renovating apparatus and parts thereof. No. 76,686; Feb. 8; Gaz. vol. 151; p. 446.
Electric Speedometer and Dynamometer Manufacturing Company, The, Washington, D. C. Dynamometers and tachometers. No. 77,302; Mar. 29; Gaz. vol. 152; p. 1219.
Electric Storage Battery Company, The, Philadelphia, Pa. Electrical lighting apparatus and storage batteries therefor. No. 77,626; Apr. 26; Gaz. vol. 153; p. 1077.
Electro Bleaching Gas Company, New York, N. Y. Specially-treated chlorin gas. No. 76,714; Feb. 8; Gaz. vol. 151; p. 447.
Electrolytic Purifying Company, The, Denver, Colo. Filtered water. No. 77,714; May 3; Gaz. vol. 154; p. 247.
Elefritz, John, St. Louis, Mo. Remedy for piles. No. 79,565; Sept. 20; Gaz. vol. 158; p. 697.
Eleto Company, New York, N. Y. Dentifrice and antiseptic. No. 80,272; Nov. 29; Gaz. vol. 160; p. 1267.
Elgin Canning Co., Elgin, Iowa. Canned corn. No. 77,210; Mar. 22; Gaz. vol. 152; p. 953.
Elias Bros. & Co., New York, N. Y. Dress and negligée shirts. No. 78,074; May 31; Gaz. vol. 154; p. 1403.
Ellen's New Discovery Company, Newburgh, N. Y. Medicinal veterinary remedy. No. 78,318; June 7; Gaz. vol. 155; p. 301.
Ellery Twist Drill Co., The, Portsmouth, N. H. Boring-drills. No. 79,044; Aug. 2; Gaz. vol. 157; p. 203.
Ellet-Kendall Shoe Company, Kansas City, Mo. Leather boots, shoes, and leggings. No. 79,659; Sept. 27; Gaz. vol. 158; p. 879.
Ellet-Kendall Shoe Company, Kansas City, Mo. Leather boots, shoes, and leggings. No. 79,905; Oct. 18; Gaz. vol. 159; p. 743.
Elliott, J. S., Newville, Pa. Blended coffee. No. 77,523; Apr. 19; Gaz. vol. 153; p. 817.
Ellsworth and Thayer Manufacturing Company, Milwaukee, Wis. Gloves, mittens, and fur coats. No. 79,566; Sept. 20; Gaz. vol. 158; p. 697.
Elmer Manufacturing Company, The, St. Louis, Mo. Ticket printing and delivering machines. No. 80,470; Dec. 27; Gaz. vol. 161; p. 1039.
Elmo Sisters, Pittsburg, Pa. Massage-creams, rouges, powder-paste, &c. No. 78,696; July 5; Gaz. vol. 156; p. 253.
Elwood Lawn Mower Manufacturing Company, Elwood, Ind. Lawn-mowers. No. 78,597; June 28; Gaz. vol. 155; p. 1038.
Ely & Walker Dry Goods Co., St. Louis, Mo. Knit underwear. No. 76,743; Feb. 15; Gaz. vol. 151; p. 725.
Ely & Walker Dry Goods Co., St. Louis, Mo. Children's outer suits and rompers. No. 78,697; July 5; Gaz. vol. 156; p. 253.
Ely & Walker Dry Goods Co., St. Louis, Mo. Denims. No. 79,477; Sept. 13; Gaz. vol. 158; p. 477.
Ely & Walker Dry Goods Co., St. Louis, Mo. Percale. No. 80,471; Dec. 27; Gaz. vol. 161; p. 1039.
Elyea-Austell Co., Atlanta, Ga. Bicycles, bicycle and motor-cycle crank-hangers. No. 79,265; Aug. 23; Gaz. vol. 157; p. 995.
Emerson Drug Co., Baltimore, Md. Toilet preparation. No. 79,567; Sept. 20; Gaz. vol. 158; p. 697.
Emery Pneumatic Lubricator Co., St. Louis, Mo. Lubricants in stick or paste or semifluid form. No. 76,504; Jan. 25; Gaz. vol. 150; p. 1037.
Emil Majert Company, New York, N. Y. Decalcomania-transfer graining-paper. No. 77,524; Apr. 19; Gaz. vol. 153; p. 817.
Emil Weissbrod & Sons, Inc., Greenfield, Mass. Wallets. No. 78,366; June 7; Gaz. vol. 155; p. 303.
Empire Knife Company, The, Winsted, Conn. Pocket-knives, scissors, shears, table and kitchen knives. Nos. 77,865–6; May 10; Gaz. vol. 154; p. 511.
Empire Soap Company, New York, N. Y. Cleansing compounds and soaps. No. 79,413; Sept. 6; Gaz. vol. 158; p. 223.
Enelow, Max, Pittsburg, Pa. Stogies and cigars. No. 79,742; Oct. 4; Gaz. vol. 159; p. 237.
Engel-Cone Shoe Company, East Boston, Mass. Shoes of leather, rubber, canvas, and buckskin. No. 76,505; Jan. 25; Gaz. vol. 150; p. 1037.
Engelhard, Amelia M., Waterloo, Iowa. Advertising-signs. No. 80,113; Nov. 8; Gaz. vol. 160; p. 489.
Ennis Manufacturing Co., The, Kansas City, Mo. Baking-powder. No. 78,782; July 12; Gaz. vol. 156; p. 533.
Ennis Manufacturing Co., The, Kansas City, Mo. Baking-powder. No. 79,266; Aug. 23; Gaz. vol. 157; p. 995.
Enns Milling Company, Inman, Kans. Wheat-flour. No. 77,127; Mar. 15; Gaz. vol. 152; p. 727.
Enterprise Enamel Company, The, Bellaire, Ohio. Enamel metal ware. No. 78,407; June 14; Gaz. vol. 155; p. 549.
Enterprise Jewelry Co., Attleboro, Mass. Hat, stick, and beauty pins and cuff-links. No. 80,045; Nov. 1; Gaz. vol. 160; p. 253.
Epitomist Publishing Co., Spencer, Ind. Monthly magazines. No. 79,200; Aug. 16; Gaz. vol. 157; p. 749.
Eppstein, Milton L., Fort Worth, Tex. Tea and spices. No. 79,967; Oct. 25; Gaz. vol. 159; p. 987.
Equity Publishing Company, Indianapolis, Ind. Semi-monthly magazines. No. 76,506; Jan. 25; Gaz. vol. 150; p. 1037.
Erba, Carlo, Milan, Italy. Extract of tamarind. Nos. 76,787–8; Feb. 15; Gaz. vol. 151; p. 726.
Erba, Carlo, Milan, Italy. Pharmaceutical and toilet preparations and medicines. No. 77,455; Apr. 12; Gaz. vol. 153; p. 541.
Ernest Stevens, Limited, Cradley Heath, England. Certain hollow ware. No. 77,525; Apr. 19; Gaz. vol. 153; p. 817.
Erste Triester Reisschäl - Fabriks Actien - Gesellschaft, Trieste, Austria-Hungary. Rice, rice-starch, and rice-flour. No. 78,958; July 26; Gaz. vol. 156; p. 1062.
Ertel, Anthony, Hempstead, N. Y. Remedy for certain diseases. No. 78,408; June 14; Gaz. vol. 155; p. 549.
Erwin-Nadal Tobacco Co., Wilson, N. C. Cigarettes. No. 80,309; Dec. 6; Gaz. vol. 161; p. 263.
Esser & Co., Fred, Hamburg, Germany. Implements for tapping trees. No. 77,456; Apr. 12; Gaz. vol. 153; p. 541.
Estabrook & Eaton, Boston, Mass. Cigarettes. No. 78,501; June 21; Gaz. vol. 155; p. 795.
Estate Stove Co., The, Hamilton, Ohio. Stoves. No. 77,715; May 3; Gaz. vol. 154; p. 247.
Estate Stove Co., The, Hamilton, Ohio. Stoves. No. 80,273; Nov. 29; Gaz. vol. 160; p. 1267.
Etherton, John C., East St. Louis, Ill. Remedy for hemorrhoids. No. 79,661; Sept. 27; Gaz. vol. 158; p. 879.
Ettlinger & Sons, L., New York, N. Y. Jewelry-boxes. No. 76,566; Feb. 1; Gaz. vol. 151; p. 189.
Eugene Dietzgen Company, Chicago, Ill. Drawing instruments. No. 79,904; Oct. 18; Gaz. vol. 159; p. 743.
Eureka Headache Powder Company, Concord, N. H. Remedy for headache and an anodyne. No. 77,101; Mar. 8; Gaz. vol. 152; p. 484.
Eureka Spring Company, New York, N. Y. Athletic exercisers. No. 80,274; Nov. 29; Gaz. vol. 160; p. 1267.
Eureka Suction Co., Loudonville, Ohio. Dental suction-cups. No. 76,909; Feb. 22; Gaz. vol. 151; p. 1010.
Evans, Charles P., Milton, Mass. Garters. No. 77,627; Apr. 26; Gaz. vol. 153; p. 1077.
Evans Sons Lescher & Webb Limited, Liverpool, England. Lime-fruit juice. No. 80,046; Nov. 1; Gaz. vol. 160; p. 253.
Everhart & Company, Laurel, Md. Vaginal capsules. No. 78,076; May 31; Gaz. vol. 154; p. 1403.
Everitt, James A., Indianapolis, Ind. Seeds. No. 77,778; May 3; Gaz. vol. 154; p. 249.
Everitt-Metzger-Flanders Co., Detroit, Mich. Automobiles. No. 76,308; Jan. 4; Gaz. vol. 150; p. 262.
Examiner Printing Company, San Francisco, Cal. Weekly publication. No. 79,968; Oct. 25; Gaz. vol. 159; p. 987.
Excello Mfg. Co., New York, N. Y. Puzzles. No. 76,854; Feb. 22; Gaz. vol. 151; p. 1009.
Excelsior Quilting Company, New York, N. Y. Bed-mattress protectors. No. 80,221; Nov. 22; Gaz. vol. 160; p. 1033.
Exposition Cotton Mills, Atlanta, Ga. Sheetings and drillings. No. 78,039; May 24; Gaz. vol. 154; p. 1104.
F. Berg & Co., Orange Valley, N. J., and New York, N. Y. Felt hats for men. No. 78,931; July 26; Gaz. vol. 156; p. 1061.
F. Berg & Co., Orange Valley, N. J., and New York, N. Y. Soft and stiff felt hats for men. No. 80,024; Nov. 1; Gaz. vol. 160; p. 253.
F. Lozano, Son & Co., New York, N. Y. Cigars. No. 80,432; Dec. 20; Gaz. vol. 161; p. 750.
F. Schenk & Sons Co., Wheeling and Fulton, W. Va. Lard. No. 77,303; Mar. 29; Gaz. vol. 152; p. 1219.
F. Schenk & Sons Co., Wheeling and Fulton, W. Va. Hams and bacon. No. 77,354; Mar. 29; Gaz. vol. 152; p. 1221.
F. A. Foster & Co. (See Foster & Co., F. A., assignors.)
F. A. Koch & Co., New York, N. Y. Certain surgical instruments. No. 77,304; Mar. 29; Gaz. vol. 152; p. 1219.
F. B. Chamberlain Company, St. Louis, Mo. Baking-powder. No. 77,628; Apr. 26; Gaz. vol. 153; p. 1077.

Alphabetical list of registrants of trade-marks—Continued.

F. B. Chamberlain Company, St. Louis, Mo. Rolled oats and oatmeal. No. 78,038; May 24; Gaz. vol. 154; p. 1104.
F. B. Chamberlain Company, St. Louis, Mo. Self-raising pancake-flour. No. 79,648; Sept. 27; Gaz. vol. 158; p. 879.
F. B. Shuster Company, The, New Haven, Conn. Riveting-machines. Nos. 78,754–6; July 5; Gaz. vol. 156; p. 255.
F. E. Atteaux & Co., Boston, Mass., and Jersey City, N. J. Hyposulfite of soda and sulfid of sodium. No. 78,059; May 31; Gaz. vol. 154; p. 1043.
F. F. Rick & Co., Buffalo, N. Y. Rubber tires. No. 79,081; Aug. 2; Gaz. vol. 157; p. 204.
F. H. Strong Company, New York, N. Y. Remedial agents. No. 77,911; May 17; Gaz. vol. 154; p. 831.
F. L. Smidth & Co., Jersey City, N. J., and New York, N. Y. Metallic grinding-bodies. No. 78,651; June 28; Gaz. vol. 155; p. 1039.
F. O. Stone Baking Company, The, Cincinnati, Ohio. Cake. No. 77,415; Apr. 5; Gaz. vol. 153; p. 268.
F. P. Cutting Co., San Jose, Cal. Canned vegetables. No. 77,457; Apr. 12; Gaz. vol. 153; p. 541.
F. P. Kirkendall & Co., Omaha, Nebr. Boots, shoes, slippers, and overshoes. No. 76,507; Jan. 25; Gaz. vol. 150; p. 1037.
F. S. Walton Company, Camden, N. J. Soap for tanners' use. No. 76,415; Jan. 11; Gaz. vol. 150; p. 567.
F. T. Pearce Company, Providence, R. I. Jewelry, precious-metal solid or plated ware. No. 78,818; July 12; Gaz. vol. 156; p. 534.
F. W. Bradley Co. (See Bradley, Francis W., assignor.)
F. W. Gesswein Company, New York, N. Y. Engraving tools and implements having cutting edges. No. 77,526; Apr. 19; Gaz. vol. 153; p. 817.
F. W. Gesswein Company, New York, N. Y. Files. No. 79,753; Oct. 4; Gaz. vol. 159; p. 238.
Fabbrica Italiana Automobili-Torino Societa Anonima, Turin, Italy. Steam and gasolene motors and engines and parts thereof. No. 77,867; May 10; Gaz. vol. 154; p. 511.
Faber, A. W., Stein, near Nuremberg, and Berlin, Germany. Pencils. No. 77,227; Mar. 22; Gaz. vol. 152; p. 954.
Faber, A. W., Stein, near Nuremberg, and Berlin, Germany. Pencils. No. 78,077; May 31; Gaz. vol. 154; p. 1403.
Faber, A. W., Stein, near Nuremberg, and Berlin, Germany. Pencils. Nos. 78,319–20; June 7; Gaz. vol. 155; p. 301.
Faber, A. W., Stein, near Nuremberg, and Berlin, Germany. Rubber bands. No. 79,662; Sept. 27; Gaz. vol. 158; p. 879.
Fabrikation für Lessive Phénix Patent J. Picot Paris L. Minlos & Co., Cologne-Ehrenfeld, Germany. Washing-powder and soap. No. 76,757; Feb. 15; Gaz. vol. 151; p. 725.
Fabrique Internationale de conserves alimentaires Le Soleil, à Malines, (Société anonyme), Mechlin, Belgium. Preserved vegetables and fruits. No. 78,502; June 21; Gaz. vol. 155; p. 795.
Fadeuilhe, Martin, New York, N. Y. Medicines for rheumatism. No. 77,157; Mar. 15; Gaz. vol. 152; p. 728.
Fahrney & Son, D., Hagerstown, Md. Teething-syrup. No. 77,629; Apr. 26; Gaz. vol. 153; p. 1078.
Fairbanks Co., The, New York, N. Y. Hydrants and fire-plugs. No. 77,458; Apr. 12; Gaz. vol. 153; p. 541.
Fairbanks Company, The, New York, N. Y. Steam and water valves. No. 77,630; Apr. 26; Gaz. vol. 153; p. 1078.
Fairbanks, Morse & Company, Chicago, Ill. Explosion-engines. No. 76,508; Jan. 25; Gaz. vol. 150; p. 1037.
Fairchild Bros. & Foster, New York, N. Y. Nutrient especially prepared for alimentation of the colon. No. 76,526; Jan. 25; Gaz. vol. 150; p. 1037.
Fairchild Bros. & Foster, New York, N. Y. Pharmaceutical preparation for use as a remedy for intestinal and fermentative diseases. No. 76,911; Feb. 22; Gaz. vol. 151; p. 1010.
Fairchild Bros. & Foster, New York, N. Y. Glycolytic extract of pancreas. No. 80,114; Nov. 8; Gaz. vol. 160; p. 489.
Faire Bros. & Co., Limited, Leicester, England. Garters, belts, shoulder-braces, and garment-supporters. No. 78,409; June 14; Gaz. vol. 155; p. 549.
Fairmount Electric and Manufacturing Company, The, Philadelphia, Pa. Electrical fittings. No. 78,078; May 31; Gaz. vol. 154; p. 1403.
Falk Tobacco Co., New York, N. Y., and Richmond, Va. Smoking-tobacco. No. 79,743; Oct. 4; Gaz. vol. 159; p. 237.
Famel, Pierre, Paris, France. Medicine. No. 79,568; Sept. 20; Gaz. vol. 158; p. 697.
Fanner Mfg. Co., The, Cleveland, Ohio. Stove-pokers, lid-lifters, and shakers. No. 78,503; June 21; Gaz. vol. 155; p. 795.
Farbenfabriken of Elberfeld Company, New York, N. Y. Fancy yarns. Nos. 77,231–2; Mar. 22; Gaz. vol. 152; p. 954.
Farbenfabriken of Elberfeld Company, New York, N. Y. Coal-tar dyes. No. 77,305; Mar. 29; Gaz. vol. 152; p. 1219.
Farbenfabriken of Elberfeld Company, New York, N. Y. Coal-tar dyes. No. 77,717; May 3; Gaz. vol. 154; p. 247.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Tablets and capsules of medicaments. No. 78,598; June 28; Gaz. vol. 155; p. 1038.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for certain diseases. No. 79,969; Oct. 25; Gaz. vol. 159; p. 987.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for certain diseases. No. 80,115; Nov. 8; Gaz. vol. 160; p. 489.
Faribault Canning Company, Faribault, Minn. Canned vegetables. No. 79,744; Oct. 4; Gaz. vol. 159; p. 237.
Farmers' Cotton Oil & Fertilizer Company, Huntsville, Ala. Cotton-seed meal. No. 76,437; Jan. 18; Gaz. vol. 150; p. 821.
Farmers Home Journal Co., Louisville, Ky. Periodicals. No. 76,394; Jan. 11; Gaz. vol. 150; p. 566.
Farmers Milling & Mercantile Company, The, Berthoud, Colo. Wheat-flour. No. 79,478; Sept. 13; Gaz. vol. 158; p. 477.
Farrand Company, The, Detroit, Mich. Piano-players and player-pianos. No. 79,115; Aug. 9; Gaz. vol. 157; p. 481.
Farrell, Robert S., Fort Worth, Tex. Remedies for certain diseases. No. 77,527; Apr. 19; Gaz. vol. 153; p. 817.
Farrington & Whitney, New York, N. Y. Olive-oil. No. 77,988; May 24; Gaz. vol. 154; p. 1103.
Father Morriscy Medicine Company, The, Limited, Chatham, New Brunswick, Canada. Medicines. No. 79,201; Aug. 16; Gaz. vol. 157; p. 749.
Faxon, Williams & Faxon, Buffalo, N. Y. Certain foods. No. 78,235; May 31; Gaz. vol. 154; p. 1408.
Fay-Gorman Company, The, Bethel, Conn. Felt hats. No. 78,079; May 31; Gaz. vol. 154; p. 1403.
Fay, Thomas J., New York, N. Y. Ointments. No. 79,267; Aug. 23; Gaz. vol. 157; p. 995.
Feder, Silberberg Company, The, Cincinnati, Ohio. Overcoats, outer suits, and trousers. No. 78,293; May 31; Gaz. vol. 154; p. 1409.
Federal Waterproofing Co., St. Joseph, Mo. Waterproof cloth. No. 76,445; Jan. 18; Gaz. vol. 150; p. 821.
Fee-Crayton Hardwood Lumber Company, Newport and Little Rock, Ark. Lumber and logs. No. 77,228; Mar. 22; Gaz. vol. 152; p. 954.
Fee-Crayton Hardwood Lumber Company, Newport and Little Rock, Ark. Lumber and logs. No. 77,389; Apr. 5; Gaz. vol. 153; p. 267.
Felch, Arthur E., Natick, Mass. Alkaline antiseptic. No. 77,689; Apr. 26; Gaz. vol. 153; p. 1079.
Fellows & Co., Boston, Mass. Bed and couch hammocks. No. 79,479; Sept. 13; Gaz. vol. 158; p. 477.
Felten & Guilleaume-Lahmeyerwerke Actien-Gesellschaft, Mülheim-on-the-Rhine, Germany. Wire strings for musical instruments. No. 76,567; Feb. 1; Gaz. vol. 151; p. 189.
Ferguson, Olga A., Elk City, Okla. Tonic-beverage syrup and drink made therefrom. No. 76,339; Jan. 4; Gaz. vol. 150; p. 263.
Fernald, Frederick K., Elkhart, Ind. Laxative foods. No. 79,663; Sept. 27; Gaz. vol. 158; p. 879.
Ferond, Jules, New York, N. Y. Hair-tonic and scalp or skin remedy. No. 80,116; Nov. 8; Gaz. vol. 160; p. 489.
Ferrin, Frank M., Newton and Boston, Mass. Insulated electric conductors and cables. No. 77,022; Mar. 1; Gaz. vol. 152; p. 227.
Feuerstein, Henry, Malden, Mass. Coat-sweaters. No. 78,321; June 7; Gaz. vol. 155; p. 301.
Fibre Specialty Co., Kennett Square, Pa. Trunks. No. 76,357; Jan. 11; Gaz. vol. 150; p. 565.
Ficini, Giuseppe S., Chicago, Ill. Remedies for malaria. No. 79,480; Sept. 13; Gaz. vol. 158; p. 477.
Fidalgo Island Packing Co., Anacortes, Wash. Canned salmon. No. 79,414; Sept. 6; Gaz. vol. 158; p. 224.
Fidalgo Island Packing Co., Anacortes, Wash. Canned salmon. Nos. 79,482–4; Sept. 13; Gaz. vol. 158; p. 477.
Fidalgo Island Packing Co., Anacortes, Wash. Canned salmon. No. 79,664; Sept. 27; Gaz. vol. 158; p. 879.
Figaro Chemical Co., Dallas, Tex. Meat-preservative. No. 78,783; July 12; Gaz. vol. 156; p. 533.
Fillmore Citrus Fruit Association, Fillmore, Cal. Oranges and lemons. No. 78,236; May 31; Gaz. vol. 154; p. 1408.
Fillmore Citrus Fruit Association, Fillmore, Cal. Oranges and lemons. No. 80,178; Nov. 15; Gaz. vol. 160; p. 769.
Finch, Charles W., Chicago, Ill. Honey and jellies. No. 79,745; Oct. 4; Gaz. vol. 159; p. 237.
Finkelstein, Max, Chicago, Ill. Men's outer suits, ladies' outer suits, and boys' outer suits. No. 76,967; Mar. 1; Gaz. vol. 152; p. 225.
Finlay, Dicks & Co. Ltd., New Orleans, La. Perfumes and talcum and face powders. No. 79,116; Aug. 9; Gaz. vol. 157; p. 481.
Finlay, Dicks & Co. Ltd., New Orleans, La. Smelling-salts, toilet preparations, and perfumes. No. 79,569; Sept. 20; Gaz. vol. 158; p. 697.
Finsbury Distillery Co., The, London, England. Lime-juice cordial. No. 79,202; Aug. 16; Gaz. vol. 157; p. 749.
First Texas Chemical Manufacturing Co., Dallas, Tex. Syrup of senna and pepsin. No. 79,203; Aug. 16; Gaz. vol. 157; p. 749.

Alphabetical list of registrants of trade-marks—Continued.

Firth Carpet Company, The, New York, N. Y. Carpets and rugs. Nos. 79,330–1; Aug. 30; Gaz. vol. 157; p. 1239.
Fischer, C. Alfred, Berlin, Germany. Lecithin preparation. No. 76,968; Mar. 1; Gaz. vol. 152; p. 225.
Fischer, Ellis, New York, N. Y. Knitted articles. No. 76,969; Mar. 1; Gaz. vol. 152; p. 225.
Fisher Governor Company, The, Marshalltown, Iowa. Valves. No. 78,698; July 5; Gaz. vol. 156; p. 253.
Fisher Governor Company, The, Marshalltown, Iowa. Certain machinery and parts thereof. No. 80,117; Nov. 8; Gaz. vol. 160; p. 489.
Fisher, Hart C., San Francisco, Cal. Blended tea. No. 79,826; Oct. 11; Gaz. vol. 159; p. 485.
Fiske Brothers Refining Co., New York, N. Y. Lubricating-oils and lubricating-greases. No. 76,991; Mar. 1; Gaz. vol. 152; p. 226.
Fitch, Cornelia K., Passaic, N. J. Periodical publications. No. 79,746; Oct. 4; Gaz. vol. 159; p. 238.
Fitch, Cornelia K., New York, N. Y. Periodical financial publications. No. 79,970; Oct. 25; Gaz. vol. 159; p. 987.
Flint and Walling Mfg. Co., Kendallville, Ind. Certain machinery and parts thereof. No. 79,827; Oct. 11; Gaz. vol. 159; p. 485.
Flood & Conklin Co., Newark, N. J. Fillers and surfacers. Nos. 76,325–6; Jan. 4; Gaz. vol. 150; p. 262.
Florence Wagon Works, Florence, Ala. Farm-wagons. No. 77,868; May 10; Gaz. vol. 154; p. 511.
Florence Wagon Works, Florence, Ala. Wagons. No. 77,912; May 17; Gaz. vol. 154; p. 831.
Florida Chair Factory, Jacksonville, Fla. Swings. No. 79,332; Aug. 30; Gaz. vol. 157; p. 1239.
Florsheim Shoe Company, The, Chicago, Ill. Boots and shoes. No. 77,632; Apr. 26; Gaz. vol. 153; p. 1078.
Floyd-Wells Company, The, Royersford, Pa. Stoves, ranges, and furnaces. Nos. 79,747–8; Oct. 4; Gaz. vol. 159; p. 238.
Flynn & Bro., J. W., Wilkinsburg, Pa. Curtain-fixtures. No. 78,237; May 31; Gaz. vol. 154; p. 1408.
Foote & Co., F. H., Baltimore, Md. Eggs. No. 79,204; Aug. 16; Gaz. vol. 157; p. 749.
Foote & Jenks, Jackson, Mich. Flavoring-syrup for non-alcoholic beverages. No. 79,749; Oct. 4; Gaz. vol. 159; p. 238.
Forbes Varnish Company, The, Cleveland, Ohio. Varnishes and japans. No. 77,528; Apr. 19; Gaz. vol. 153; p. 817.
Ford, Franklin, Jackson, Mich. Remedy for nervous debility. No. 79,268; Aug. 23; Gaz. vol. 157; p. 995.
Ford, George A., Chicago, Ill. Bifurcated night-clothing. No. 76,855; Feb. 22; Gaz. vol. 151; p. 1009.
Ford Manufacturing Co., Chicago, Ill. Asphalt roofing. No. 78,410; June 14; Gaz. vol. 155; p. 549.
Ford Manufacturing Co., Chicago, Ill. Asphalt roofing. No. 78,701; July 5; Gaz. vol. 156; p. 254.
Ford Manufacturing Company, Chicago, Ill. Prepared roofings. No. 77,718; May 3; Gaz. vol. 154; p. 247.
Ford Manufacturing Company, Chicago, Ill. Asphalt roofing. No. 78,599; June 28; Gaz. vol. 155; p. 1038.
Ford Manufacturing Company, Chicago, Ill. Prepared rubber roofings. No. 80,275; Nov. 29; Gaz. vol. 160; p. 1267.
Forestal Land Timber & Rlys. Co. Ltd., The, London, England. Tanning substances. No. 77,529; Apr. 19; Gaz. vol. 153; p. 817.
Forster Manufacturing Company, Dixfield, Me. Toothpicks. No. 77,991; May 24; Gaz. vol. 154; p. 1103.
Forsyth Manufacturing Company, Buffalo, N. Y. Certain receptacles. No. 77,913; May 17; Gaz. vol. 154; p. 831.
Fort Scott Sorghum Syrup Co., The, Fort Scott, Kans. Compound of corn-syrup with cane flavor and sorghum. No. 80,472; Dec. 27; Gaz. vol. 161; p. 1039.
Fort Smith Coffee Company, Fort Smith, Ark. Coffee. No. 76,912; Feb. 22; Gaz. vol. 151; p. 1010.
Fort Stanwix Canning Company, Rome, N. Y. Canned fruits and vegetables. No. 80,276; Nov. 29; Gaz. vol. 160; p. 1267.
Fort Wayne Drug Company, Fort Wayne, Ind. Mixed paint. No. 77,416; Apr. 5; Gaz. vol. 153; p. 268.
Fort Wayne Drug Company, Fort Wayne, Ind. Whisky. No. 78,381; June 7; Gaz. vol. 155; p. 303.
Fort Wayne Drug Company, Fort Wayne, Ind. Whisky. No. 79,485; Sept. 13; Gaz. vol. 158; p. 477.
Fort Wayne Electric Works, Fort Wayne, Ind. Electric fans. No. 79,028; July 26; Gaz. vol. 156; p. 1063.
Fort Wayne Engineering & Manufacturing Company, Fort Wayne, Ind. Certain machinery. No. 78,786; July 12; Gaz. vol. 156; p. 533.
Foster Caldarera & Co., Fort Smith, Ark. Cigars. No. 76,934; Feb. 22; Gaz. vol. 151; p. 1011.
Foster, Caldarera & Co., Fort Smith, Ark. Coffee. No. 80,179; Nov. 15; Gaz. vol. 160; p. 769.
Foster & Co., F. A., New York, N. Y., assignors to F. A. Foster & Co. Inc. Certain textiles. No. 77,716; May 3; Gaz. vol. 154; p. 247.
Foster Dack Co., Council Bluffs, Iowa, and Chicago, Ill. Ointment. No. 78,497; June 21; Gaz. vol. 155; p. 795.
Foster-McClellan Co., Buffalo, N. Y. Medicines. No. 78,080; May 31; Gaz. vol. 154; p. 1403.
Foster & Sons, Limited, M. B., London, England. Certain alcoholic beverages. No. 78,040; May 24; Gaz. vol. 154; p. 1104.
Fostoria Glass Company, Moundsville, W. Va. Certain glassware. No. 78,702; July 5; Gaz. vol. 156; p. 254.
Fourney, Frank J., Williamsport, Pa. Remedy for rheumatism. No. 76,358; Jan. 11; Gaz. vol. 150; p. 565.
Fox Chemical Company, St. Louis, Mo. Remedy for certain diseases. No. 78,172; May 31; Gaz. vol. 154; p. 1406.
Fox & Co., M. Ewing, New York, N. Y. Certain painters' materials. No. 79,046; Aug. 2; Gaz. vol. 157; p. 203.
Fox, Ernest C., Cleveland, Ohio. Registers. No. 78,081; May 31; Gaz. vol. 154; p. 1404.
Fox, Ernest C., Cleveland, Ohio. Stoves and radiators. No. 79,269; Aug. 23; Gaz. vol. 157; p. 995.
Foyer, Melvin J., Toledo, Ohio. Children's go-carts. No. 78,788; July 12; Gaz. vol. 156; p. 534.
Francis & Co., A., Detroit, Mich. Perfumes, face-powders, and toilet waters. No. 79,750; Oct. 4; Gaz. vol. 159; p. 239.
Francis Company, Inc., The, Baltimore, Md. Straw, felt, and textile hats and caps. No. 76,438; Jan. 18; Gaz. vol. 150; p. 821.
Francis Company Incorporated, The, Baltimore, Md. Straw hats. No. 76,359; Jan. 11; Gaz. vol. 150; p. 565.
Francis H. Leggett & Company, New York, N. Y. Coffee. No. 77,459; Apr. 12; Gaz. vol. 153; p. 541.
Francis H. Leggett & Company, New York, N. Y. Olive-oil. No. 77,460; Apr. 12; Gaz. vol. 153; p. 542.
Francis H. Leggett & Company, New York, N. Y. Flavoring extracts. No. 77,633; Apr. 26; Gaz. vol. 153; p. 1078.
Francis H. Leggett & Company, New York, N. Y. Soap. No. 79,430; Sept. 6; Gaz. vol. 158; p. 224.
Francis H. Leggett & Co., New York, N. Y. Brooms. No. 79,680; Sept. 27; Gaz. vol. 158; p. 880.
Francis H. Leggett Co., New York, N. Y. Cotton clothes-lines. No. 79,767; Oct. 4; Gaz. vol. 159; p. 238.
Francis H. Leggett & Co., New York, N. Y. Bird-seed. Nos. 79,768–9; Oct. 4; Gaz. vol. 159; p. 238.
Francis H. Leggett & Co., New York, N. Y. Certain food. No. 79,770; Oct. 4; Gaz. vol. 159; p. 238.
Francis H. Leggett & Co., New York, N. Y. Certain foods. No. 79,988; Oct. 25; Gaz. vol. 159; p. 988.
Francis H. Leggett & Co., New York, N. Y. Strained honey. No. 79,989; Oct. 25; Gaz. vol. 159; p. 988.
Francis H. Leggett & Co., New York, N. Y. Peanut-butter. No. 79,990; Oct. 25; Gaz. vol. 159; p. 988.
Francis H. Leggett & Co., New York, N. Y. Sweet mangoes. No. 79,991; Oct. 25; Gaz. vol. 159; p. 988.
Francis H. Leggett & Co., New York, N. Y. Cranberry sauce. No. 79,992; Oct. 25; Gaz. vol. 159; p. 988.
Francis H. Leggett & Co., New York, N. Y. Vinegar. No. 79,993; Oct. 25; Gaz. vol. 159; p. 988.
Francis H. Leggett & Co., New York, N. Y. Parlor-matches. No. 80,067; Nov. 1; Gaz. vol. 160; p. 254.
Francis H. Leggett & Co., New York, N. Y. Borax. No. 80,068; Nov. 1; Gaz. vol. 160; p. 254.
Francis H. Leggett & Co., New York, N. Y. Biscuit. No. 80,132; Nov. 8; Gaz. vol. 160; p. 490.
Francis H. Leggett & Co., New York, N. Y. Crackers and biscuit. No. 80,133; Nov. 8; Gaz. vol. 160; p. 490.
Francis H. Leggett & Co., New York, N. Y. Condensed milk and honey and white rolled oats. No. 80,134; Nov. 8; Gaz. vol. 160; p. 490.
Francis H. Leggett & Co., New York, N. Y. Cassava-cakes, plum-pudding, and clam-chowder. No. 80,135; Nov. 8; Gaz. vol. 160; p. 490.
Francis H. Leggett & Co., New York, N. Y. Cracket-dust. No. 80,479; Dec. 27; Gaz. vol. 161; p. 1039.
Francis, Joseph H., Chicago, Ill. Monthly magazine. No. 78,238; May 31; Gaz. vol. 154; p. 1408.
Francis, Joseph H., Chicago, Ill. Monthly financial journal. No. 79,751; Oct. 4; Gaz. vol. 159; p. 238.
Franco-American Ferment Company, New York, N. Y. Bacteriological product. No. 76,471; Jan. 18; Gaz. vol. 150; p. 822.
Frank Holton & Co., Chicago, Ill. Certain musical instruments. No. 79,978; Oct. 25; Gaz. vol. 159; p. 987.
Frank-Kline-Stewart Co., New York, N. Y. Rompers, blouses, pajamas, and night-robes. No. 79,971; Oct. 25; Gaz. vol. 159; p. 987.
Frankel Bros., New York, N. Y. Men's overcoats and coats. No. 78,322; June 7; Gaz. vol. 155; p. 301.
Frankfurter Asbestwerke Aktiengesellschaft (Vormals Louis Wertheim), Frankfort-on-the-Main, Germany. Certain packings. No. 76,485; Jan. 18; Gaz. vol. 150; p. 822.
Frankfurter Musikwerke-Fabrik J. D. Philipps & Söhne, Frankfort-on-the-Main, Germany. Orchestrions and pianofortes mechanically operated. No. 76,829; Feb. 15; Gaz. vol. 151; p. 727.
Franklin & Co., E. I., North Attleboro, Mass. Certain jewelry. Nos. 77,530–1; Apr. 19; Gaz. vol. 153; p. 817.
Franklin Manufacturing Co., Baltimore, Md. Cotton piece goods. No. 78,411; June 14; Gaz. vol. 155; p. 549.
Franklin Manufacturing Company, The, New Haven, Conn. Wire straightening and cutting-off machines. No. 78,703; July 5; Gaz. vol. 156; p. 254.

Alphabetical list of registrants of trade-marks—Continued.

Franklin Sugar Refining Company, The, Philadelphia, Pa. Sugar and cane-syrup. No. 78,789; July 12; Gaz. vol. 156; p. 534.
Franz Hartmann Sinalco Aktiengesellschaft, Detmold, Germany. Aerated non-alcoholic fruit beverages. No. 76,619; Feb. 1; Gaz. vol. 151; p. 190.
Franz Hartmann Sinalco Aktiengesellschaft, Detmold, Germany. Fruit lemonades. No. 78,603; June 28; Gaz. vol. 155; p. 1038.
Frazier Packing Company, The, Elwood, Ind. Catchup. No. 76,992; Mar. 1; Gaz. vol. 152; p. 226.
Frazin, Sallye, Philadelphia, Pa. Men's, women's, and children's leather shoes. No. 76,811; Feb. 15; Gaz. vol. 151; p. 727.
Fred. Eckart Packing Company, Fort Wayne, Ind. Bacon. No. 77,128; Mar. 15; Gaz. vol. 152; p. 727.
Fred. Eckart Packing Company, Fort Wayne, Ind. Ham and bacon. No. 77,306; Mar. 29; Gaz. vol. 152; p. 1219.
Fred Fear & Company, New York, N. Y. Easter-egg dyes. No. 78,874; July 19; Gaz. vol. 156; p. 793.
Fred L. Kimball Company, Waterloo, Iowa. Periodical publication. No. 80,128; Nov. 8; Gaz. vol. 160; p. 489.
Frederick F. Ingram Co., Detroit, Mich. Toilet preparations. No. 79,583; Sept. 20; Gaz. vol. 158; p. 698.
Frederick Stearns & Co., Detroit, Mich. Perfumes. No. 77,719; May 3; Gaz. vol. 154; p. 247.
Frederick Stearns & Co., Detroit, Mich. Perfumes. No. 77,803; May 10; Gaz. vol. 154; p. 509.
Frederick W. Lipps Company of Baltimore City. (See Lane, Charles D., assignor.)
Freedman, Hayman, New York, N. Y. Coats and overcoats. No. 77,804; May 10; Gaz. vol. 154; p. 509.
Freeman & Cobb Co., Boston, Mass. Smoked shore-haddock. No. 78,505; June 21; Gaz. vol. 155; p. 795.
Freithofer, Fred F., Pittsburg, Pa. Disinfectant for exterminating insects. No. 79,117; Aug. 9; Gaz. vol. 157; p. 481.
Fremd, Charles, New York, N. Y. Insecticide. No. 76,913; Feb. 22; Gaz. vol. 151; p. 1010.
Fremont Candy Company, The, Fremont, Ohio. Candies. No. 79,581; Sept. 20; Gaz. vol. 158; p. 698.
French & Co., Samuel H., Philadelphia, Pa. Paints and paste colors. No. 77,992; May 24; Gaz. vol. 154; p. 1103.
French Manufacturing Company, The, St. Louis, Mo. Baking-powder and chemicals. No. 78,704; July 5; Gaz. vol. 156; p. 254.
Freshman, Samuel, Dallas, Tex. Wines. No. 79,270; Aug. 23; Gaz. vol. 157; p. 995.
Freund, Ferdinand, New York, N. Y. Medicinal lotion. No. 79,333; Aug. 30; Gaz. vol. 157; p. 1239.
Fried. Krupp, Aktiengesellschaft, Grusonwerk, Magdeburg-Buckau, Germany. Certain machinery. No. 77,229; Mar. 22; Gaz. vol. 152; p. 954.
Friend, Fred I., Providence, R. I. Remedy for diseases of the eye. No. 79,486; Sept. 13; Gaz. vol. 158; p. 477.
Fries & Bro., Alex., Cincinnati, Ohio. Artificial flavors and essences. No. 80,048; Nov. 1; Gaz. vol. 160; p. 254.
Fries, Harold H., New York, N. Y. Non-alcoholic beverage. No. 79,334; Aug. 30; Gaz. vol. 157; p. 1239.
Frisbie, Edna S., Crystal Lake, Ill. Shoe-dressing. No. 77,113; Mar. 8; Gaz. vol. 152; p. 485.
Fritz Handrich & Sons, New York, N. Y. Whiskies. No. 77,186; Mar. 15; Gaz. vol. 152; p. 729.
Fritzsche Brothers, New York, N. Y. Certain chemicals. No. 80,222; Nov. 22; Gaz. vol. 160; p. 1033.
Froesé, Minna, New York, N. Y. Ash-sifters. No. 77,532; Apr. 19; Gaz. vol. 153; p. 817.
Frothingham, C. Mifflin, Boston, Mass. Crackers. No. 78,790; July 12; Gaz. vol. 156; p. 534.
Frye, Eva L., Lowell, Mass. Face-cream. No. 79,119; Aug. 9; Gaz. vol. 157; p. 481.
Fues, François, New York, N. Y. Certain toilet preparations, ointments, and liniments. No. 76,620; Feb. 1; Gaz. vol. 151; p. 190.
Fulcrum Oil Company, Franklin, Pa. Lubricating-oil. No. 78,082; May 31; Gaz. vol. 154; p. 1404
Fuld, Herman, New York, N. Y. Pinochle score-cards. No. 77,869; May 10; Gaz. vol. 154; p. 511.
Fulford-Hanson Co., The, Schenectady, N. Y. Herb-tea. No. 78,959; July 26; Gaz. vol. 156; p. 1062.
Fuller, Frank, New York, N. Y. Crackers. No. 76,439; Jan. 18; Gaz. vol. 150; p. 821.
Fuller, James T., Chattanooga, Tenn. Cotton-ginning machinery and parts thereof. No. 79,047; Aug. 2; Gaz. vol. 157; p. 203.
Fuller, Louis E., New York, N. Y. Stencil-paper and stencils. No. 80,310; Dec. 6; Gaz. vol. 161; p. 263.
Fullerton, James, Seattle, Wash. Liquid medicinal preparation. No. 76,282; Jan. 4; Gaz. vol. 150; p. 261.
Fullwood, George L., Philadelphia, Pa., assignor, by mesne assignments, to Tobaclets, Inc., Richmond, Va. Chewing-tobacco. No. 79,752; Oct. 4; Gaz. vol. 159; p. 238.
G. Cramer Dry Plate Co., St. Louis, Mo. Photographic-ray filters. No. 78,863; July 19; Gaz. vol. 156; p. 793.
G. Gordon Martin, Incorporated, Chicago, Ill. False teeth. No. 77,390; Apr. 5; Gaz. vol. 153; p. 267.
G. Schirmer, New York, N. Y. Music-books. No. 77,391; Apr. 5; Gaz. vol. 153; p. 267.
G. A. Stafford & Co., Greenwich, Conn., and New York, N. Y. Sheetings and tickings. No. 77,914; May 17; Gaz. vol. 154; p. 831.
G. A. Stafford & Co., Greenwich, Conn., and New York, N. Y. Ginghams, shirtings, and chambrays. No. 79,529; Sept. 13; Gaz. vol. 158; p. 479.
G. B. Farrington Company, New York, N. Y. Roasted coffee. No. 76,758; Feb. 15; Gaz. vol. 151; p. 725.
G. B. Farrington Company, The, New York, N. Y. Coffee. No. 77,720; May 3; Gaz. vol. 154; p. 247.
G. H. Ballou Company, San Diego, Cal. Blended coffee. No. 76,993; Mar. 1; Gaz. vol. 152; p. 226.
G. & J. Weir Ld., Cathcart, Scotland. Steam condensers, evaporators, and preheaters for boilers. No. 77,805; May 10; Gaz. vol. 154; p. 509.
G. & J. Weir Ld., Cathcart, Scotland. Steam condensers, evaporators, and preheaters for boilers. No. 78,144; May 31; Gaz. vol. 154; p. 1405.
G. R. McAbee Powder & Oil Company, Pittsburg, Pa. Blasting-powders. No. 77,054; Mar. 8; Gaz. vol. 152; p. 483.
G. W. Bent Co., Boston, Mass. Mattresses and cushions. No. 78,394; June 14; Gaz. vol. 155; p. 549.
Gamon, Ernest E., Newark, N. J. Water-meters. No. 77,634; Apr. 26; Gaz. vol. 153; p. 1078.
Gans Bros., Baltimore, Md. Umbrellas. No. 79,973; Oct. 25; Gaz. vol. 159; p. 987.
Gardiner, George H., Thomaston, Me. Medicinal remedy. No. 78,083; May 31; Gaz. vol. 154; p. 1404.
Gardner Broom Company, Amsterdam, N. Y. Brooms. No. 79,048; Aug. 2; Gaz. vol. 157; p. 203.
Gardner, Frederick W., New York, N. Y. Detergent hand-cleaning paste. No. 79,271; Aug. 23; Gaz. vol. 157; p. 995.
Garey, Hellen, Salt Lake City, Utah. Remedy for certain diseases. No. 78,323; June 7; Gaz. vol. 155; p. 301.
Garfinkle, Julius, Washington, D. C.; New York, N. Y., and Paris, France. Corsets. No. 77,067; Mar. 8; Gaz. vol. 152; p. 483.
Garnier, Caroline H., Enghien-les-Bains, France. Cordials. No. 80,049; Nov. 1; Gaz. vol. 160; p. 254.
Garson, Charles, Rochester, N. Y. Lubricating-oil. No. 76,873; Feb. 22; Gaz. vol. 151; p. 1009.
Gas Machinery Co., The, Cleveland, Ohio. Certain apparatus and parts thereof. No. 79,415; Sept. 6; Gaz. vol. 158; p. 224.
Gasoline Motor Efficiency Company, Jersey City, N. J. Mixing devices for gases. No. 77,533; Apr. 19; Gaz. vol. 153; p. 817.
Gasser Coffee Company, The, Toledo, Ohio. Coffees and teas. No. 78,706; July 5; Gaz. vol. 156; p. 254.
Gaumont Co., New York, N. Y. Combined talking and moving-picture machines. No. 77,721; May 3; Gaz. vol. 154; p. 247.
Gauss-Langenberg Hat Company, St. Louis, Mo. Men's fur hats. No. 78,084; May 31; Gaz. vol. 154; p. 1404.
Gautier, Conrad C., Greencastle, Ind. Tonic beverage and syrup for making same. No. 80,311; Dec. 6; Gaz. vol. 161; p. 263.
Gautret, J., fils, Jonzac, France. Brandy. Nos. 79,626–8; Sept. 20; Gaz. vol. 158; p. 699.
Gehrke Knitting Mills, Reading, Pa. Hosiery. No. 80,180; Nov. 15; Gaz. vol. 160; p. 769.
Gelbtrunk, Isidoro, New York, N. Y. Cotton piece goods. No. 76,994; Mar. 1; Gaz. vol. 152; p. 226.
Gem Petticoat Co., Louisville, Ky. Dress-skirts. No. 76,283; Jan. 4; Gaz. vol. 150; p. 261.
General Electric Company, Schenectady, N. Y. Electric lamps. No. 77,779; May 3; Gaz. vol. 154; p. 249.
General Electric Company, Schenectady, N. Y. Electric lamps. No. 78,600; June 28; Gaz. vol. 155; p. 1038.
General Electric Company, Schenectady, N. Y. Insulating-oil. No. 79,120; Aug. 9; Gaz. vol. 157; p. 481.
General Fire Extinguisher Company, New York, N. Y., and Providence, R. I. Fire-extinguishing apparatus. No. 80,118; Nov. 8; Gaz. vol. 160; p. 489.
Geneva Cutlery Company, Geneva, N. Y. Razors. No. 76,509; Jan. 25; Gaz. vol. 150; p. 1037.
Geo. Benz & Sons, St. Paul, Minn. Wine and sherry. No. 80,402; Dec. 20; Gaz. vol. 161; p. 749.
Geo. Blome & Son Co., Baltimore, Md. Candy. No. 76,587; Feb. 1; Gaz. vol. 151; p. 189.
Geo. Borgfeldt & Co., New York, N. Y. Perfumery. No. 77,174; Mar. 15; Gaz. vol. 152; p. 728.
Geo. Borgfeldt & Co., New York, N. Y. Perfumery. No. 77,915; May 17; Gaz. vol. 154; p. 831.
Geo. Borgfeldt & Co., New York, N. Y. Enameled metal ware. No. 78,770; July 12; Gaz. vol. 156; p. 533.
Geo. Bray & Co. L'd., Leeds, England. Certain acetylene-gas burners. No. 76,715; Feb. 8; Gaz. vol. 151; p. 447.
Geo. De Wald Company, The, Fort Wayne, Ind. Certain clothing. No. 78,666; June 28; Gaz. vol. 155; p. 1039.
Geo. L. Paine Co., North Attleboro, Mass. Goods plated with precious metal for personal adornment. No. 79,150; Aug. 9; Gaz. vol. 157; p. 482.
Geo. P. Bent Company, Chicago, Ill. Interior player-pianos. Nos. 77,722–3; May 3; Gaz. vol. 154; p. 247.
Geo. Tileston Milling Company, The, St. Cloud, Minn. Wheat-flour. No. 80,091; Nov. 1; Gaz. vol. 160; p. 255.

Geo. Tileston Milling Company, The, St. Cloud, Minn. Wheat-flour. No. 80,200; Nov. 15; Gaz. vol. 160; p. 770.
George Craver's Sons, Binghamton, N. Y. Clover-seed. No. 77,392; Apr. 5; Gaz. vol. 153; p. 267.
George Craver's Sons, Binghamton, N. Y. Timothy-seed. Nos. 77,393–4; Apr. 5; Gaz. vol. 153; pp. 267–8.
George Craver's Sons, Binghamton, N. Y. Timothy-seed. Nos. 77,635–6; Apr. 26; Gaz. vol. 153; p. 1078.
George Craver's Sons, Binghamton, N. Y. Clover-seed. Nos. 77,637–9; Apr. 26; Gaz. vol. 153; p. 1078.
George Frost Company, Boston, Mass. Garters. No. 79,118; Aug. 9; Gaz. vol. 157; p. 481.
George Frost Company, Boston, Mass. Hose-supporters and garters. No. 79,972; Oct. 25; Gaz. vol. 159; p. 987.
George N. Steere Company, The, Cranston, R. I. Jewelry. No. 79,166; Aug. 9; Gaz. vol. 157; p. 483.
George P. Pilling & Son Co., Philadelphia, Pa. Surgical, dental, and veterinary instruments. No. 80,148; Nov. 8; Gaz. vol. 160; p. 490.
Gerhard Mennen Chemical Co., Newark, N. J. Talcum powder. No. 78,506; June 21; Gaz. vol. 155; p. 795.
Gerhard Mennen Chemical Co., Newark, N. J. Talcum powder. No. 79,069; Aug. 2; Gaz. vol. 157; p. 204.
Gerhart, Robert L., Lancaster, Pa. Blended tea. No. 80,050; Nov. 1; Gaz. vol. 160; p. 254.
German-American Company, Draper, N. C. Cotton blankets. No. 77,461; Apr. 12; Gaz. vol. 153; p. 542.
German-American Conservatory of Music, Chicago, Ill. Pianos, organs, and music-chart frames. No. 80,051; Nov. 1; Gaz. vol. 160; p. 254.
Gernsback, Hugo, New York, N. Y. Monthly magazine. No. 78,507; June 21; Gaz. vol. 155; p. 795.
Gesellschaft für Sportartikel m. b. H., Berlin, Germany. Game. No. 76,309; Jan. 4; Gaz. vol. 150; p. 262.
Gesellschaft m. b. H. Classen & Co., Schöneberg, Germany. Soldering-fluxes. No. 76,472; Jan. 18; Gaz. vol. 150; p. 822.
Geshlider Bros., New York, N. Y. Leather gloves. No. 78,085; May 31; Gaz. vol. 154; p. 1404.
Gesswein, Paul H., Brooklyn, N. Y. Polishing and cutting wheels. No. 77,993; May 24; Gaz. vol. 154; p. 1103.
Getsinger, Edward C., Worcester, Mass. Medicinal preparations for the tobacco habit. No. 80,052; Nov. 1; Gaz. vol. 160; p. 254.
Getz Bros. & Co., San Francisco, Cal. Canned oysters, shrimp, and salmon. No. 76,510; Jan. 25; Gaz. vol. 150; p. 1037.
Gibbs Preserving Company, Baltimore, Md. Canned oysters. No. 77,534; Apr. 19; Gaz. vol. 153; p. 817.
Gibbs Preserving Company, Baltimore, Md. Canned oysters. Nos. 77,724–5; May 3; Gaz. vol. 154; p. 248.
Gibford, Edward B., Adrian, Mich. Razor-strops. No. 76,395; Jan. 11; Gaz. vol. 150; p. 566.
Gibson Canning Company, The, Gibson, Ill. Canned pork and beans, lye-hominy, and sauer-kraut. No. 78,412; June 14; Gaz. vol. 155; p. 549.
Gibson Canning Company, The, Gibson, Ill. Matches. No. 78,791; July 12; Gaz. vol. 156; p. 534.
Gibson Canning Company, The, Gibson, Ill. Beer. No. 78,960; July 26; Gaz. vol. 156; p. 1062.
Gibson Canning Company, The, Gibson, Ill. Salt, baking powder and soda. No. 78,961; July 26; Gaz. vol. 156; p. 1062.
Gibson Canning Company, The, Gibson, Ill. Cigars, cigarettes, and tobacco. No. 79,049; Aug. 2; Gaz. vol. 157; p. 203.
Gibson Well Water Company, Mineral Wells, Tex. Concentrated natural mineral water. No. 77,187; Mar. 15; Gaz. vol. 152; p. 729.
Gilbert, John O., Jackson, Mich. Chocolates and candies. No. 76,995; Mar. 1; Gaz. vol. 152; p. 226.
Gill, Paul C., Los Angeles, Cal. Scalp and foot lotions and hair-dressings. No. 79,570; Sept. 20; Gaz. vol. 158; p. 697.
Gillam, Charles E., Lockport, N. Y. Perident anesthetic. No. 80,352; Dec. 13; Gaz. vol. 161; p. 525.
Gillham, Robert J., Orlando, Fla. Preparation for making a tonic beverage. No. 79,488; Sept. 13; Gaz. vol. 158; p. 477.
Gilliam Manufacturing Company. (See Johns, Alfred L., assignor.)
Gilpin, Langdon & Company, Incorporated, Baltimore, Md. Insect-powder. No. 79,121; Aug. 9; Gaz. vol. 157; p. 481.
Giroux Manufacturing Company, Buffalo, N. Y. Hair dressing and tonic. No. 80,277; Nov. 29; Gaz. vol. 160; p. 1267.
Gladstone Springs Co., Chattanooga, Tenn. Natural spring-water. No. 76,327; Jan. 4; Gaz. vol. 150; p. 262.
Glardon, Edouard C., Hamburg, Germany. Safety-clamps for boxes. No. 77,994; May 24; Gaz. vol. 154; p. 1103.
Glenn Springs Company, Glenn Springs, S. C. Natural mineral, carbonated, and aerated water. No. 76,486; Jan. 18; Gaz. vol. 150; p. 822.
Glidden, Hyde & Co., Boston, Mass. Hosiery. No. 77,230; Mar. 22; Gaz. vol. 152; p. 954.
Glidden, Hyde & Co., Boston, Mass. Hosiery. Nos. 78,508–9; June 21; Gaz. vol. 155; pp. 795–6.
Globe Optical Company, Boston, Mass. Optical lenses for use in reading and in viewing objects. No. 76,996; Mar. 1; Gaz. vol. 152; p. 226.
Globe Soap Company, The, Cincinnati, Ohio. Soap. Nos. 77,640–1; Apr. 26; Gaz. vol. 153; p. 1078.
Globe Soap Company, Cincinnati, Ohio. Soap. No. 80,353; Dec. 13; Gaz. vol. 161; p. 525.
Globe Soap Company, The, Cincinnati, Ohio. Soap. Nos. 80,419–20; Dec. 20; Gaz. vol. 161; p. 749.
Globe Taunton Nail Company, Taunton, Mass. Wire nails and tacks. No. 79,974; Oct. 25; Gaz. vol. 159; p. 987.
Glotfelty, Webster B., Sharpsburg, Pa. Dental cement and root-filler. No. 77,642; Apr. 26; Gaz. vol. 153; p. 1078.
Glynn & Co., W. F., Crescent City, Fla. Oranges. No. 79,416; Sept. 6; Gaz. vol. 158; p. 224.
Goggin, John, New York, N. Y. Cotton-seed oil. No. 78,414; June 14; Gaz. vol. 155; p. 549.
Gohl & King, Williamsport, Pa. Coffee. No. 79,828; Oct. 11; Gaz. vol. 159; p. 485.
Golden and Company, Washington, D. C. Eggs. No. 80,119; Nov. 8; Gaz. vol. 160; p. 489.
Golden Gate Packing Company, San Jose, Cal. Canned fruits. No. 77,726; May 3; Gaz. vol. 154; p. 248.
Golden Gate Packing Company, San Jose, Cal. Canned fruits. No. 79,050; Aug. 2; Gaz. vol. 157; p. 203.
Golden Gate Packing Company, San Jose, Cal. Canned fruits. No. 79,754; Oct. 4; Gaz. vol. 159; p. 238.
Golden State Asparagus Co., San Francisco, Cal. Canned asparagus. No. 76,284; Jan. 4; Gaz. vol. 150; p. 261.
Golden State Asparagus Co., San Francisco, Cal. Canned asparagus. No. 79,417; Sept. 6; Gaz. vol. 158; p. 224.
Goldenberg, Moses, Washington, D. C. Certain textiles. No. 77,995; May 24; Gaz. vol. 154; p. 1103.
Goldenberg, Moses, Washington, D. C. Certain clothing. No. 77,996; May 24; Gaz. vol. 154; p. 1103.
Goldenberg, Moses, Baltimore, Md., and Washington, D. C. Pocket-books, card-cases, hand-bags, &c. No. 77,997; May 24; Gaz. vol. 154; p. 1103.
Goldenberg, Moses, Baltimore, Md., and Washington, D. C. Linoleum and oiled cloth. No. 77,998; May 24; Gaz. vol. 154; p. 1103.
Goldenberg, Moses, Baltimore, Md., and Washington, D. C. Certain stationery and paper. No. 78,041; May 24; Gaz. vol. 154; p. 1105.
Goldenberg, Moses, Washington, D. C. Certain clothing. No. 78,086; May 31; Gaz. vol. 154; p. 1404.
Goldenberg, Moses, Washington, D. C. Medicines and toilet preparations. No. 78,087; May 31; Gaz. vol. 154; p. 1404.
Goldschmidt, Th., Essen-on-the-Ruhr, Germany. Various metals. No. 79,336; Aug. 30; Gaz. vol. 157; p. 1239.
Goldsmith, Ralph, New Orleans, La. Rice. No. 79,051; Aug. 2; Gaz. vol. 157; p. 203.
Goldsmith, Ralph, New Orleans, La. Rice. Nos. 79,205–6; Aug. 16; Gaz. vol. 157; p. 749.
Goldsmith, Ralph, New Orleans, La. Rice. Nos. 79,272–3; Aug. 23; Gaz. vol. 157; p. 995.
Goldsmith's Sons, P., Cincinnati, Ohio. Game-balls. No. 77,233; Mar. 22; Gaz. vol. 152; p. 954.
Goldwater, Henry, New York, N. Y. Cloaks, dresses, and coats. No. 78,601; June 28; Gaz. vol. 155; p. 1038.
Gonzalez & Sanchez Co., Jacksonville, Fla. Cigars. No. 76,328; Jan. 4; Gaz. vol. 150; p. 262.
Good Health Publishing Co., Battle Creek, Mich. Monthly magazine. No. 77,916; May 17; Gaz. vol. 154; p. 831.
Goodman, Moritz, San Francisco, Cal. Medicine for certain diseases. No. 80,223; Nov. 22; Gaz. vol. 160; p. 1033.
Goodness Bros. Co., Webster, Mass. Remedies for certain diseases. No. 77,369; Apr. 5; Gaz. vol. 153; p. 267.
Goorin, Shapira & Company, Pittsburg, Pa. Hats and caps. No. 79,337; Aug. 30; Gaz. vol. 157; p. 1239.
Gordon Bitters Co., Jersey City, N. J. Dry gin. No. 78,415; June 14; Gaz. vol. 155; p. 549.
Gordon & Dilworth, Roselle, N. J., and New York, N. Y. Certain foods. No. 78,792; July 12; Gaz. vol. 156; p. 534.
Gordon Hollow Blast Grate Company, The, Greenville, Mich. Edgers and trimmers. No. 79,975; Oct. 25; Gaz. vol. 159; p. 987.
Gordon, Walter I., Sr., Cleveland, Ohio. Vegetable butter. No. 79,571; Sept. 20; Gaz. vol. 158; p. 697.
Gorman, Nelson M., Boston, Mass. Fruit-jar lifters. No. 78,875; July 19; Gaz. vol. 156; p. 793.
Gory & Heller, Chicago, Ill. Certain clothing. No. 77,307; Mar. 29; Gaz. vol. 152; p. 1219.
Goshen Milling Company, The, Goshen, Ind. Wheat-flour. Nos. 77,643–4; Apr. 26; Gaz. vol. 153; p. 1078.
Gottmann & Kretchmer, Chicago, Ill. Candies. No. 79,274; Aug. 23; Gaz. vol. 157; p. 995.
Gottschalk, Dreyfuss & Davis, New York, N. Y. Certain printed matter. No. 76,970; Mar. 1; Gaz. vol. 152; p. 225.
Gottschalk, George A., Louisville, Ky. Liver-pills. No. 78,416; June 14; Gaz. vol. 155; p. 549.
Goulds Manufacturing Company, The, Seneca Falls, N. Y. Power and hand pumps. No. 80,354; Dec. 13; Gaz. vol. 161; p. 525.
Graf Bros., New York, N. Y. Rouge-cloth for tinting the face. No. 78,793; July 12; Gaz. vol. 156; p. 534.

Alphabetical list of registrants of trade-marks—Continued.

Graff Company, The, Pittsburg, Pa. Certain heating apparatus. No. 78,876; July 19; Gaz. vol. 156; p. 793.
Graham, David T., St. Louis, Mo. Metallic belt-fasteners. No. 77,308; Mar. 29; Gaz. vol. 152; p. 1219.
Gramm-Logan Motor Car Company, The. Self-propelled vehicles. No. 77,917; May 17; Gaz. vol. 154; p. 831.
Grand Isle Fruit Co., South Hero, Vt. Fresh apples. No. 79,207; Aug. 16; Gaz. vol. 157; p. 749.
Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerators. No. 79,418; Sept. 6; Gaz. vol. 158; p. 224.
Grantorpets Tändsticksfabriks Aktiebolag, Westervik, Sweden. Matches. No. 76,360; Jan. 11; Gaz. vol. 150; p. 565.
Granucci, Gisberto, San Francisco, Cal. Olive-oil. No. 78,962; July 26; Gaz. vol. 156; p. 1062.
Granulator Soap Company, New York, N. Y. Devices for holding and delivering soap. No. 77,129; Mar. 15; Gaz. vol. 152; p. 727.
Granulator Soap Company, New York, N. Y. Soap. No. 77,806; May 10; Gaz. vol. 154; p. 509.
Grasselli Chemical Company, The, Cleveland, Ohio. Paper-size. No. 79,829; Oct. 11; Gaz. vol. 159; p. 485.
Grässer, Louis, Zwickau, Germany. Kid gloves. No. 79,419; Sept. 6; Gaz. vol. 158; p. 224.
Graton & Knight Mfg. Co., Worcester, Mass. Leather belting. Nos. 76,285–6; Jan. 4; Gaz. vol. 150; p. 261.
Graton & Knight Mfg. Co., Worcester, Mass. Leather for boots and shoes. No. 76,621; Feb. 1; Gaz. vol. 151; p. 190.
Gráton & Knight Mfg. Co., Worcester, Mass. Leather for boots and shoes. No. 77,918; May 17; Gaz. vol. 154; p. 831.
Great Western Cereal Company, The, Chicago, Ill. Prepared stock feed. No. 80,053; Nov. 1; Gaz. vol. 160; p. 254.
Greco, Gaspare, New Orleans, La. Washing and bleaching fluid. No. 77,999; May 24; Gaz. vol. 154; p. 1103.
Greek American Confectionery Co., New York, N. Y., assignor to Novelty Candy & Chocolate Co. Candy. No. 79,572; Sept. 20; Gaz. vol. 158; p. 697.
Green & Mars, Pittsburg, Pa. Blended coffee. No. 78,963; July 26; Gaz. vol. 156; p. 1062.
Green, Robert A., Quapau, Okla. Liniments, stock-powders, &c. No. 77,314; Mar. 29; Gaz. vol. 152; p. 1220.
Greenfield's Son & Co., E., New York, N. Y. Chocolates and candies. No. 80,120; Nov. 8; Gaz. vol. 160; p. 489.
Greer, Frank L., Bloomington, Wis. Lotions for the face, hands, and skin. No. 78,964; July 26; Gaz. vol. 156; p. 1062.
Gregory, Charles M., Denver, Colo. Certain clothing. No. 77,234; Mar. 22; Gaz. vol. 152; p. 954.
Grendel Mills, Greenwood, S. C. Cotton sheeting. No. 78,433; June 14; Gaz. vol. 155; p. 550.
Griggs, Cooper & Co., St. Paul, Minn. Blended coffee and tea. No. 77,130; Mar. 15; Gaz. vol. 152; p. 727.
Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien, Brunswick, Germany. Calculating-machines. No. 80,313; Dec. 6; Gaz. vol. 161; p. 263.
Grinberg Brothers, New York, N. Y. Gas, oil, alcohol, and coal stoves. No. 78,510; June 21; Gaz. vol. 155; p. 796.
Grippin, William H., Newark, N. Y. Food and preservative for all finished or varnished surfaces. No. 80,355; Dec. 13; Gaz. vol. 161; p. 525.
Griswold, Horace D., Nashua, N. H. Medicinal preparation for the skin and scalp. No. 78,173; May 31; Gaz. vol. 154; p. 1406.
Groff, Charles R., White Bear Lake, Minn., assignor to The Stockmen's Food Company. Baking-powder. No. 77,090; Mar. 8; Gaz. vol. 152; p. 484.
Grosse, William T., San Francisco, Cal. Soap. No. 78,965; July 26; Gaz. vol. 156; p. 1062.
Grossfeld and Roe Company, Chicago, Ill. Soap and washing powder. No. 78,851; July 12; Gaz. vol. 156; p. 535.
Grosvenor, Jonathan P., Worcester, Mass. Game-boards. No. 76,511; Jan. 25; Gaz. vol. 150; p. 1037.
Grosvenor, Jonathan P., Worcester, Mass. Shoes and slippers. No. 78,707; July 5; Gaz. vol. 156; p. 254.
Guaranteed Remedies Co., Pocomoke City, Md. Remedy for indigestion, dyspepsia, and sour stomach. No. 76,830; Feb. 15; Gaz. vol. 151; p. 727.
Gudebrod Bros. Co., New York, N. Y. Sewing-threads. No. 79,122; Aug. 9; Gaz. vol. 157; p. 481.
Gudebrod Bros. Co., New York, N. Y. Silk, cotton, mercerized, and machine sewing-threads. No. 79,275; Aug. 23; Gaz. vol. 157; p. 996.
Gudebrod Bros. Co., New York, N. Y. Silk, cotton, mercerized, and machine sewing-threads. Nos. 79,489–90; Sept. 13; Gaz. vol. 158; p. 478.
Gudebrod Bros. Co., New York, N. Y. Silk, cotton, mercerized, and machine sewing-threads. No. 79,574; Sept. 20; Gaz. vol. 158; p. 698.
Gudebrod Bros. Co., New York, N. Y. Silk, cotton, mercerized, and machine sewing-threads. Nos. 79,830–1; Oct. 11; Gaz. vol. 159; p. 485.
Gudeman, Leo, New York, N. Y. Certain electrical apparatus. No. 78,088; May 31; Gaz. vol. 154; p. 1404.
Guillaume, Jules A., New York, N. Y. Certain clothing. No. 78,324; June 7; Gaz. vol. 155; p. 301.
Gulfport Grocery Co., Gulfport, Miss. Cornmeal. No. 77,418; Apr. 5; Gaz. vol. 153; p. 268.
Gum Supply Co., Newark, N. J. Chewing-gum. No. 79,276; Aug. 23; Gaz. vol. 157; p. 996.
Gurney Refrigerator Company, Limited, Fond du Lac, Wis. Refrigerators. No. 78,877; July 19; Gaz. vol. 156; p. 793.
Gurney Refrigerator Company, Limited, Fond du Lac, Wis. Refrigerators. No. 79,491; Sept. 13; Gaz. vol. 158; p. 478.
Gustav A. Moebs & Co., Detroit, Mich. Cigars. No. 78,435; June 14; Gaz. vol. 155; p. 550.
Guthman, Solomons & Co., New York, N. Y. Hair-rolls. No. 78,966; July 26; Gaz. vol. 156; p. 1062.
Gutman Bros., New York, N. Y. Hosiery. No. 77,645; Apr. 26; Gaz. vol. 153; p. 1078.
Gutman Bros., New York, N. Y. Undershirts, drawers, and union suits. No. 78,000; May 24; Gaz. vol. 154; p. 1103.
Gutman, Simon, New York, N. Y. Belts for personal wear. No. 80,181; Nov. 15; Gaz. vol. 160; p. 769.
Gutmann & Company, Chicago, Ill. Chrome sole-leather. No. 79,208; Aug. 16; Gaz. vol. 157; p. 749.
Guttknecht, J. W., Stein, near Nuremberg, Germany. Pencils and rubber bands and erasers. No. 78,089; May 31; Gaz. vol. 154; p. 1404.
Guttknecht, J. W., Stein-Nuremberg, Germany. Certain stationery. No. 78,511; June 21; Gaz. vol. 155; p. 796.
Gwinn Milling Company, The, Columbus, Ohio. Wheat-flour. Nos. 78,417–18; June 14; Gaz. vol. 155; pp. 549–50.
H. Bronnley & Co. Ltd., London, England. Perfumes, face-powders, and face-cream. No. 76,588; Feb. 1; Gaz. vol. 151; p. 189.
H. Bronnley & Co. Ltd., London, England. Perfumes. No. 77,175; Mar. 15; Gaz. vol. 152; p. 728.
H. Channon Company, Chicago, Ill. Automobile tool kits. No. 78,939; July 26; Gaz. vol. 156; p. 1061.
H. Rosenthal & Co. Inc., New York, N. Y. Handkerchiefs. No. 78,877; July 19; Gaz. vol. 156; p. 793.
H. Rosenthal & Co. Inc., New York, N. Y. Handkerchiefs. No. 78,909; July 19; Gaz. vol. 156; p. 794.
H. Traiser & Company, Incorporated, Boston, Mass. Cigars. No. 77,466; Apr. 12; Gaz. vol. 153; p. 542.
H. A. Johnson Co., Boston, Mass. Prepared flour. No. 78,246; May 31; Gaz. vol. 154; p. 1408.
H. B. Claflin Company, The, New York, N. Y. Ribbons. No. 78,688; July 5; Gaz. vol. 156; p. 253.
H. B. Kirk & Co., Jersey City, N. J. Whisky. No. 77,356; Mar. 29; Gaz. vol. 152; p. 1221.
H. B. Kirk & Co., Jersey City, N. J. Certain wines. No. 77,535; Apr. 19; Gaz. vol. 153; p. 818.
H. B. Kirk & Co., Jersey City, N. J. Certain alcoholic beverages. No. 77,536; Apr. 19; Gaz. vol. 153; p. 818.
H. B. Wiggin's Sons Company, Bloomfield, N. J. Woven fabrics for wall-coverings. No. 76,789; Feb. 15; Gaz. vol. 151; p. 726.
H. C. White Co., North Bennington, Vt. Projecting apparatus. No. 80,012; Oct. 25; Gaz. vol. 159; p. 988.
H. D. Foss & Co., Incorporated, Boston, Mass. Chocolate-coated crackers. No. 76,440; Jan. 18; Gaz. vol. 150; p. 821.
H. D. Lee Mercantile Company, The, Salina, Kans. Coffee and canned fruits and vegetables. No. 78,757; July 5; Gaz. vol. 156; p. 255.
H. D. Lee Mercantile Company, The, Salina, Kans. Certain foods. No. 78,808; July 12; Gaz. vol. 156; p. 534.
H. D. Lee Mercantile Company, The, Salina, Kans. Blended coffee. No. 79,590; Sept. 20; Gaz. vol. 158; p. 698.
H. H. Mayhew Co., Shelburne Falls, Mass. Certain tools. No. 76,287; Jan. 4; Gaz. vol. 150; p. 261.
H. H. Mayhew Co., Shelburne Falls, Mass. Certain tools. No. 76,487; Jan. 18; Gaz. vol. 150; p. 822.
H. M. Storms Company, New York, N. Y. Type-writer ribbons and carbon-paper. No. 79,940; Oct. 18; Gaz. vol. 159; p. 744.
H. T. Alexander & Co., New York, N. Y. Lubricating-oils. No. 77,131; Mar. 15; Gaz. vol. 152; p. 727.
H. T. Cottam & Co. Ltd., New Orleans, La. Soap. No. 76,759; Feb. 15; Gaz. vol. 151; p. 725.
H. T. Cottam & Co. Ltd., New Orleans, La. Illuminating-oil. No. 76,831; Feb. 15; Gaz. vol. 151; p. 727.
H. T. Cottam & Co. Ltd., New Orleans, La. Certain foods. No. 78,230; May 31; Gaz. vol. 154; p. 1408.
H & W Company, The, Newark, N. J. Corset-waists. No. 77,098; Mar. 8; Gaz. vol. 152; p. 484.
H. W. Fleddermann Co., Louisville, Ky. Waterproof cloth. No. 78,784; July 12; Gaz. vol. 156; p. 533.
Haas, Baruch & Co., Los Angeles, Cal. Baking-powder. No. 78,967; July 26; Gaz. vol. 156; p. 1062.
Haas, František, Prague, Austria-Hungary. Orthopedic appliances. No. 78,968; July 26; Gaz. vol. 156; p. 1062.
Habicht, Braun & Co., New York, N. Y. Shelled almonds. Nos. 76,881–4; Feb. 22; Gaz. vol. 151; p. 1010.
Habicht, Braun & Co., New York, N. Y. Shelled almonds. No. 76,935; Feb. 22; Gaz. vol. 151; p. 1011.
Haby, François, Berlin, Germany. Shaving-cream. No. 80,121; Nov. 8; Gaz. vol. 160; p. 489.

Alphabetical list of registrants of trade-marks—Continued.

Haddad, Ameen F., New York, N. Y. Perfumery, face-powder, toilet water, and toilet cream. No. 76,971; Mar. 1; Gaz. vol. 152; p. 225.
Haeberlein, Heinrich, Nuremberg, Germany. Gingerbread, chocolate, honey-cake, cakes, &c. No. 80,182; Nov. 15; Gaz. vol. 160; p. 769.
Haefner Remedy Co., St. Louis, Mo. Foot-powder. No. 79,575; Sept. 20; Gaz. vol. 158; p. 698.
Haiku Fruit and Packing Company, Limited, Haiku, Maui, Hawaii. Canned pineapple. No. 79,906; Oct. 18; Gaz. vol. 159; p. 743.
Halcyon Knitting Mills Co., South Bethlehem, Pa. Hosiery. No. 76,361; Jan. 11; Gaz. vol. 150; p. 565.
Hale-Halsell Grocery Co., McAlester, Durant, Coalgate, and Muskogee, Okla. Canned fruits, vegetables, and fish. No. 77,646; Apr. 26; Gaz. vol. 153; p. 1078.
Hall, J. S., Monticello, Iowa. Block and tackle for hoisting, &c. No. 77,395; Apr. 5; Gaz. vol. 153; p. 268.
Hall, Samuel R., Scranton, Pa. Facial cream, remedies for blood diseases, &c. No. 79,277; Aug. 23; Gaz. vol. 157; p. 996.
Hall, Stephen H., Beverly, Mass. Remedy for diseases of the stomach. No. 77,309; Mar. 29; Gaz. vol. 152; p. 1219.
Haller Bread Company, Pittsburg, Pa. Bread. No. 79,123; Aug. 9; Gaz. vol. 157; p. 481.
Halper, Victor, New York, N. Y. Massage-cream. No. 78,969; July 26; Gaz. vol. 156; p. 1062.
Halper, Victor, New York, N. Y. Tooth powder, paste, and mouth-wash. No. 79,124; Aug. 9; Gaz. vol. 157; p. 481.
Halsey J. Tibbals Chemical Manufacturing Company, Philadelphia, Pa. Washing and cleaning powder. No. 77,807; May 10; Gaz. vol. 154; p. 509.
Halstead & Company, Jersey City, N. J. Compound composed of beef-fat and cotton-seed oil. No. 76,589; Feb. 1; Gaz. vol. 151; p. 189.
Hamburger Bros., St. Louis, Mo. Leather boots and shoes. No. 78,090; May 31; Gaz. vol. 154; p. 1404.
Hamburger Bros., St. Louis, Mo. Leather shoes. No. 78,602; June 28; Gaz. vol. 155; p. 1038.
Hamburger Bros., St. Louis, Mo. Leather boots and shoes. No. 79,052; Aug. 2; Gaz. vol. 157; p. 203.
Hamilton, John W., Battle Creek, Mich. Candy. No. 76,590; Feb. 1; Gaz. vol. 151; p. 189.
Hamilton Manufacturing Co., Lowell and Boston, Mass. Cotton crape. No. 78,512; June 21; Gaz. vol. 155; p. 796.
Hamilton Woolen Co., Boston, Mass. Woolen and cotton piece goods. No. 77,051; Mar. 8; Gaz. vol. 152; p. 483.
Hamilton Woolen Company, Boston, Mass. Woolen and cotton piece goods. No. 80,314; Dec. 6; Gaz. vol. 161; p. 263.
Hamlin, John H., Salt Lake City, Utah. Chemical compound for coating stone and other materials. No. 79,492; Sept. 13; Gaz. vol. 158; p. 478.
Hammel, Riglander & Co., New York, N. Y. Gravers and graver-handles. No. 77,310; Mar. 29; Gaz. vol. 152; p. 1219.
Hammel, Riglander & Co., New York, N. Y. Watch, clock, and chronometer oils. No. 78,091; May 31; Gaz. vol. 154; p. 1404.
Hammel, Riglander & Co., New York, N. Y. Mainsprings. No. 79,907; Oct. 18; Gaz. vol. 159; p. 743.
Hammer, Joseph C., Hartford, Conn. Cigars. No. 78,239; May 31; Gaz. vol. 154; p. 1408.
Hammer, Robert R., Roslindale, Mass. Signs. No. 80,421; Dec. 20; Gaz. vol. 161; p. 749.
Hampton Roads Cutlery Corporation, Norfolk, Va. Plated knives, forks, and spoons. No. 79,278; Aug. 23; Gaz. vol. 157; p. 996.
Hamstra and Company, H., Grand Rapids, Mich. Biscuits. No. 76,362; Jan. 11; Gaz. vol. 150; p. 565.
Hancock Inoculatum Co., The, Salem, Va. Remedy for white diarrhea, roup, and cholera in fowls. No. 77,727; May 3; Gaz. vol. 154; p. 248.
Hanley & Kinsella Coffee & Spice Company, St. Louis, Mo. Coffee. No. 78,174; May 31; Gaz. vol. 154; p. 1406.
Hanley & Kinsella Coffee & Spice Company, St. Louis, Mo. Blended coffee and tea, flavoring extracts, and spices. No. 79,279; Aug. 23; Gaz. vol. 157; p. 996.
Hanlon-Sharps Co., The, Wheeling, W. Va. Paper dishes. No. 77,311; Mar. 29; Gaz. vol. 152; p. 1219.
Hanna Paint Manufacturing Company, The, Columbus, Ohio. Liquid paint. No. 78,513; June 21; Gaz. vol. 155; p. 796.
Hanover Vulcanite Company, The, New York, N. Y. Combs. No. 76,949; Mar. 1; Gaz. vol. 152; p. 225.
Hanover Vulcanite Company, New York, N. Y. Rubber sponges. No. 77,647; Apr. 26; Gaz. vol. 153; p. 1078.
Harden Bros. & Lindsay, Ltd., London, England. Tea and cocoa. No. 79,908; Oct. 18; Gaz. vol. 159; p. 743.
Hardin, Rollie E., Blacksburg, S. C. Remedy for piles. No. 79,209; Aug. 16; Gaz. vol. 157; p. 749.
Harding Tilton & Company, Boston, Mass. Mercerized, &c., cotton yarns. No. 80,054; Nov. 1; Gaz. vol. 160; p. 254.
Hardman, Walter E., Fort Wayne, Ind. Laxative cathartic pills. No. 76,473; Jan. 18; Gaz. vol. 150; p. 822.
Hardtmuth, L. & C., London, England, and Budweis, Austria-Hungary. Lead-pencils. No. 78,970; July 26; Gaz. vol. 156; p. 1062.
Hardwick & Magee Co., Philadelphia, Pa. Carpet and rugs. No. 78,325; June 7; Gaz. vol. 155; p. 301.
Hargreaves Bros. & Co. Limited, Kingston-upon-Hull, England. Black-lead for polishing. No. 78,794; July 12; Gaz. vol. 156; p. 534.
Harrington, James P., Brockton, Mass. Leather shoes. No. 76,441; Jan. 18; Gaz. vol. 150; p. 821.
Harris Grape Juice Co., Harrisburg, Pa. Grape-juice. No. 78,419; June 14; Gaz. vol. 155; p. 550.
Harris Grape Juice Co., Harrisburg, Pa. Grape-juice. Nos. 78,795–6; July 12; Gaz. vol. 156; p. 534.
Harris-Lipsitz Company, Dallas, Tex. Hosiery. No. 78,092; May 31; Gaz. vol. 154; p. 1404.
Harris-Lipsitz Company, Dallas, Tex. Ginghams. No. 78,093; May 31; Gaz. vol. 154; p. 1404.
Harris-Lipsitz Company, Dallas, Tex. Hosiery. No. 78,797; July 12; Gaz. vol. 156; p. 534.
Harris-Lipsitz Company, Dallas, Tex., and New York, N. Y. Shirts. No. 78,878; July 19; Gaz. vol. 156; p. 793.
Harris-Lipsitz Company, Dallas, Tex., and New York, N. Y. Dress-shirts. No. 78,971; July 26; Gaz. vol. 156; p. 1062.
Harris-Lipsitz Company, Dallas, Tex., and New York, N. Y. Work-shirts. No. 79,280; Aug. 23; Gaz. vol. 157; p. 996.
Harris-Lipsitz Company, Dallas, Tex. Ginghams. No. 80,315; Dec. 6; Gaz. vol. 161; p. 263.
Harris, Nathan A., Conway, Mo. Remedy for certain diseases. No. 78,094; May 31; Gaz. vol. 154; p. 1404.
Harris, Paul M., Dallas, Tex. Flavoring-syrup for a soda-fountain drink. No. 79,423; Sept. 6; Gaz. vol. 158; p. 224.
Harris, Sam H., New York, N. Y. Cigars, cheroots, and little cigars. No. 78,514; June 21; Gaz. vol. 155; p. 796.
Harris Suspender Co., New York, N. Y. Suspenders, shoulder-braces, garters, and garment-supporters. No. 76,668; Feb. 8; Gaz. vol. 151; p. 446.
Harrison & Siegel, New York, N. Y. Ladies' and misses' cloaks and outer suits. No. 76,512; Jan. 25; Gaz. vol. 150; p. 1037.
Harry, Owen K., Dallas, Tex. Metal cellars. No. 78,972; July 26; Gaz. vol. 156; p. 1062.
Hart, Albert J., Cleveland, Ohio. Metal-polish. No. 77,235; Mar. 22; Gaz. vol. 152; p. 954.
Hartford Faience Company, The, Hartford, Conn. Certain gas-lamp parts. No. 77,023; Mar. 1; Gaz. vol. 152; p. 227.
Hartford Rubber Works Company, The, Hartford, Conn. Varnish. No. 77,118; Mar. 8; Gaz. vol. 152; p. 485.
Hartford Rubber Works Company, The, Hartford, Conn. Solid, cushion, and pneumatic rubber vehicle-tires. No. 77,236; Mar. 22; Gaz. vol. 152; p. 954.
Hartford Rubber Works Company, The, Hartford, Conn. Solid, cushion, and pneumatic rubber vehicle-tires. No. 77,355; Mar. 29; Gaz. vol. 152; p. 1221.
Hartman Drug Company, The, Fort Wayne, Ind. Remedies for certain diseases. No. 79,669; Sept. 27; Gaz. vol. 158; p. 880.
Hartman Mfg. Co., Vincennes, Ind. Cultivators. No. 77,870; May 10; Gaz. vol. 154; p. 511.
Harvey & Moore, Brooklyn, N. Y. Photographic intensifying solution. No. 78,879; July 19; Gaz. vol. 156; p. 793.
Hasinger Company, L. C., The, Indiana, Pa. Wooden tool-handles. No. 80,278; Nov. 29; Gaz. vol. 160; p. 1267.
Haskins, Virginia R., West Philadelphia, Pa., and New York, N. Y. Artificial flowers. No. 77,062; Mar. 8; Gaz. vol. 152; p. 483.
Hastings Canning Company, Hastings, Nebr. Canned vegetables. No. 78,382; June 7; Gaz. vol. 155; p. 303.
Hathaway, William C., Kingston and Plymouth, Mass. Soap. No. 79,281; Aug. 23; Gaz. vol. 157; p. 996.
Haven Milling Company, Inc., The, Haven, Kans. Wheat-flour. No. 80,279; Nov. 29; Gaz. vol. 160; p. 1267.
Havey, Marshall L., Montclair, N. J., assignor, by mesne assignments, to The Laxamint Company, Lima, Ohio. Laxative tablets. No. 78,798; July 12; Gaz. vol. 156; p. 534.
Hayden & Collins, Haverhill, Mass. Boots and shoes. No. 78,515; June 21; Gaz. vol. 155; p. 796.
Hayes & Macfarland, Mount Vernon, N. Y. Alloys of precious metals and castings and forgings thereof. No. 80,183; Nov. 15; Gaz. vol. 160; p. 769.
Hayes & Willrich, New Kensington, Pa. Soap and washing-powder. No. 77,648; Apr. 26; Gaz. vol. 153; p. 1078.
Hayman, Abe, Philadelphia, Pa. Shirts. No. 78,516; June 21; Gaz. vol. 155; p. 796.
Hayman, Leopold, New York, N. Y. Polishing-cloth. No. 80,122; Nov. 8; Gaz. vol. 160; p. 489.
Haynes-Piper Company, Boston, Mass. Vinegar. No. 76,288; Jan. 4; Gaz. vol. 150; p. 261.
Hayward & Thurston Co., New York, N. Y. Cotton piece goods. No. 79,755; Oct. 4; Gaz. vol. 159; p. 238.
Health Restorer & Preserver Chemical Company, Hoboken, N. J. Remedy for stomach troubles. No. 76,936; Feb. 22; Gaz. vol. 151; p. 1011.
Healy, Frank D., Buffalo, N. Y. Rings and cuff-buttons. No. 78,799; July 12; Gaz. vol. 156; p. 534.

Alphabetical list of registrants of trade-marks—Continued.

Heaton-Peninsular Button Fastener Co., Boston, Mass. Staple-like metallic fasteners. Nos. 76,950–1; Mar. 1; Gaz. vol. 152; p. 225.
Heaton-Peninsular Button Fastener Co., Boston, Mass. Certain machines. Nos. 76,997–8; Mar. 1; Gaz. vol. 152; p. 226.
Heaton-Peninsular Button Fastener Co., Boston, Mass. Staple-like metallic fasteners. No. 77,370; Apr. 5; Gaz. vol. 153; p. 267.
Heaton-Peninsular Button Fastener Co., Boston, Mass. Machines for setting metallic fasteners. No. 78,175; May 31; Gaz. vol. 154; p. 1406.
Heaton-Peninsular Button Fastener Co., Boston, Mass. Staple-like metallic fasteners. No. 79,125; Aug. 9; Gaz. vol. 157; p. 482.
Heaton-Peninsular Button Fastener Co., Boston, Mass. Staple-like metallic fasteners. Nos. 80,356–7; Dec. 13; Gaz. vol. 161; p. 525.
Heerdt, Minnia, Newport, Ky. Cereal beverage. No. 79,126; Aug. 9; Gaz. vol. 157; p. 482.
Heering, Peter F., Copenhagen, Denmark. Cherry cordial. No. 80,422; Dec. 20; Gaz. vol. 161; p. 749.
Heidelberg, Wolff & Co., New York, N. Y. Overcoats, ulsters, rain and automobile coats. No. 78,095; May 31; Gaz. vol. 154; p. 1404.
Heister, Louis, Cincinnati, Ohio. Hypodermic injections. No. 79,210; Aug. 16; Gaz. vol. 157; p. 749.
Heller & Long, New York, N. Y. Handkerchiefs. No. 76,329; Jan. 4; Gaz. vol. 150; p. 262.
Heller & Son, L., New York, N. Y. Sapphires. No. 76,513; Jan. 25; Gaz. vol. 150; p. 1037.
Helmer, William F., Burlington, Iowa. Soap. No. 78,604; June 28; Gaz. vol. 155; p. 1038.
Hemingray Glass Co., Muncie, Ind., and Covington, Ky. Electric apparatus and supplies. No. 78,096; May 31; Gaz. vol. 154; p. 1404.
Hemlock Manufacturing Co., Chattanooga, Tenn. Hammocks. No. 79,832; Oct. 11; Gaz. vol. 159; p. 485.
Hemming Manufacturing Company. (See Prentiss, George L.)
Henderson, Eleanor, Kensington, London, England. Luggage-labels. No. 77,237; Mar. 22; Gaz. vol. 152; p. 954.
Henderson, J. A., Colombo, Ceylon. Tea. No. 77,808; May 10; Gaz. vol. 154; p. 509.
Henderson, Thomas J., New Orleans, La. Molasses and corn-syrup compound. No. 78,176; May 31; Gaz. vol. 154; p. 1406.
Henley, Arthur L., Greensboro, N. C. Veterinary salve. No. 80,358; Dec. 13; Gaz. vol. 161; p. 525.
Henry B. Gilpin Co., The, Baltimore, Md. Sachet-powder. No. 77,728; May 3; Gaz. vol. 154; p. 248.
Henry Disston & Sons Incorporated, Philadelphia, Pa. Saws. No. 78,955; July 26; Gaz. vol. 156; p. 1061.
Henry J. McCoy Co., New York, N. Y. Pile-drivers. No. 79,353; Aug. 30; Gaz. vol. 157; p. 1240.
Henry Milward & Sons Limited, Redditch, England. Needles. No. 78,892; July 19; Gaz. vol. 156; p. 794.
Henry Rossell & Co. Ltd., Sheffield, England. Steel. No. 76,999; Mar. 1; Gaz. vol. 152; p. 226.
Henry Rossell & Co. Ltd., Sheffield, England. Certain metals and metal articles. No. 77,729; May 3; Gaz. vol. 154; p. 248.
Henry Rossell & Co. Ltd., Sheffield, England. Machine-tools. No. 77,730; May 3; Gaz. vol. 154; p. 248.
Henry Rossell & Co. Ltd., Sheffield, England. Certain tools. No. 79,009; July 26; Gaz. vol. 156; p. 1063.
Henry Zimmern & Co. Inc., New York, N. Y. Watchmakers' tools. No. 77,537; Apr. 19; Gaz. vol. 153; p. 818.
Herbert Frood Company, Limited, The, Chapel-en-le-Frith, England. Brake-blocks. No. 79,487; Sept. 13; Gaz. vol. 158; p. 477.
Herman Zöhrlaut Leather Co., Milwaukee, Wis. Shoe-leather. No. 76,396; Jan. 11; Gaz. vol. 150; p. 566.
Hermann, Seymour M., New York, N. Y. Fabric-finishing compound. No. 80,423; Dec. 20; Gaz. vol. 161; p. 749.
Hero, Aristides E., New York, N. Y. Candy, chocolates, bonbons, and ice-cream. No. 77,312; Mar. 29; Gaz. vol. 152; p. 1219.
Heroux, Joseph E., Woonsocket, R. I. Medicinal wine. No. 79,756; Oct. 4; Gaz. vol. 159; p. 238.
Herren, Robert C., Kenton, Ohio. Certain wooden trays and planks. No. 78,097; May 31; Gaz. vol. 154; p. 1404.
Herrmann, Aukam & Co., New York, N. Y. Handkerchiefs. Nos. 78,002–4; May 24; Gaz. vol. 154; p. 1103.
Hertzberg, Harry, New York, N. Y. Gas burners and heaters. No. 79,757; Oct. 4; Gaz. vol. 159; p. 238.
Herzog & Company, Joseph L., New York, N. Y. Certain precious-metal ware. No. 79,054; Aug. 2; Gaz. vol. 157; p. 203.
Hess-Bright Manufacturing Company, Philadelphia, Pa. Antifriction-bearings. No. 76,687; Feb. 8; Gaz. vol. 151; p. 446.
Hess-Bright Manufacturing Company, Philadelphia, Pa. Magneto-electrical machines. No. 77,649; Apr. 26; Gaz. vol. 153; p. 1078.
Hess & Clark, Dr., Ashland, Ohio. Disinfectant. No. 76,914; Feb. 22; Gaz. vol. 151; p. 1011.
Hess, Henry G. & J. Adam, Ogden, Utah. Crackers. No. 76,363; Jan. 11; Gaz. vol. 150; p. 565.
Hess, Henry G. & J. Adam, Ogden, Utah. Crackers. No. 78,177; May 31; Gaz. vol. 154; p. 1406.
Hessberg, Philip W., Richmond, Va. Talcum powder. No. 76,474; Jan. 18; Gaz. vol. 150; p. 822.
Hesslein & Co., Neuss, New York, N. Y. Certain textiles. No. 78,326; June 7; Gaz. vol. 155; p. 302.
Hewes & Potter, Boston, Mass. Elastic arm-bands. No. 77,313; Mar. 29; Gaz. vol. 152; p. 1220.
Hewes & Potter, Boston, Mass. Waist-belts. Nos. 77,462–3; Apr. 12; Gaz. vol. 153; p. 542.
Hewes & Potter, Boston, Mass. Elastic armbands. No. 78,098; May 31; Gaz. vol. 154; p. 1404.
Heyden Chemical Works, The, New York, N. Y. Sandalwood-oil preparations for internal use. No. 77,102; Mar. 8; Gaz. vol. 152; p. 484.
Hezel Milling Co., East St. Louis, Ill. Wheat-flour. No. 77,538; Apr. 19; Gaz. vol. 153; p. 818.
Hicks & Griffith, Newark, N. J. Smoked chipped beef. No. 77,539; Apr. 19; Gaz. vol. 153; p. 818.
High Point Overall Company, High Point, N. C. Overalls and overall-coats. No. 80,055; Nov. 1; Gaz. vol. 160; p. 254.
Highland Chemical Products Company, Connellsville, Pa. Anticorrosive paint. No. 79,338; Aug. 30; Gaz. vol. 157; p. 1239.
Hill & Griffith Co., Cincinnati, Ohio. Facing for metal-casting molds. No. 76,397; Jan. 11; Gaz. vol. 150; p. 566.
Hill, Thomas, New York, N. Y. Certain beverages. No. 76,790; Feb. 15; Gaz. vol. 151; p. 726.
Hill, William F., Richmond, Ind. Remedy for diseases of the blood. No. 79,576; Sept. 20; Gaz. vol. 158; p. 698.
Hills Bros., San Francisco, Cal. Coffee. No. 76,915; Feb. 22; Gaz. vol. 151; p. 1011.
Hills Brothers Company, The, New York, N. Y. Currants. No. 79,670; Sept. 27; Gaz. vol. 158; p. 880.
Hills Brothers Company, The, New York, N. Y. Currants. No. 79,909; Oct. 18; Gaz. vol. 159; p. 743.
Hine, Thome Company, Fort Dodge, Iowa. Ant-exterminating composition. No. 79,055; Aug. 2; Gaz. vol. 157; p. 203.
Hiner, Lafayette, Colorado Springs, Colo. Liniment. No. 76,475; Jan. 18; Gaz. vol. 150; p. 822.
Hines & Company, Duncan, Chicago, Ill. Furniture-polish. No. 76,937; Feb. 22; Gaz. vol. 151; p. 1011.
Hingston and Brendlinger, Pottstown, Pa. Poisoned fly-paper. No. 76,812; Feb. 15; Gaz. vol. 151; p. 727.
Hinman Knitting Company, Decatur, Ill. Hosiery. No. 76,443; Jan. 18; Gaz. vol. 150; p. 821.
Hirst-Butler Electrical Machine Co., Reynoldsville, Pa. Electric mining-machines. No. 76,514; Jan. 25; Gaz. vol. 150; p. 1037.
Hixson, Lafayette L., Newton, Iowa. Card game. No. 80,360; Dec. 13; Gaz. vol. 161; p. 525.
Hoare, Thomas F., New York, N. Y. Natural spring-water. No. 78,800; July 12; Gaz. vol. 156; p. 534.
Hobson, Houghton & Co. Limited, Sheffield, England. Certain tools and machine parts. No. 78,708; July 5; Gaz. vol. 156; p. 254.
Hodges, Leigh M., Philadelphia, Pa. Magazine. No. 77,148; Mar. 15; Gaz. vol. 152; p. 727.
Hoff, Johann, New York, N. Y. Malted soda. No. 76,399; Jan. 11; Gaz. vol. 150; p. 566.
Hoffecker Bros. & Hall Co., Smyrna, Del. Canned fruits and vegetables. Nos. 77,239–40; Mar. 22; Gaz. vol. 152; p. 954.
Hoffman Brothers Company, Fort Wayne, Ind. Lumber, logs, veneer, shingles, and laths. No. 80,316; Dec. 6; Gaz. vol. 161; p. 263.
Hoffmann, Ernst G., New Rochelle, N. Y. Steel balls. No. 78,605; June 28; Gaz. vol. 155; p. 1038.
Hoffmann-La Roche & Co., Basel, Switzerland. Pharmaceutical preparation. No. 77,371; Apr. 5; Gaz. vol. 153; p. 267.
Hoffmann-La Roche Chemical Works, The, New York, N. Y. Potassium guiacol sulfonate. No. 78,327; June 7; Gaz. vol. 155; p. 302.
Hoffmann-La Roche Chemical Works, The, assignor, by mesne assignments, to Sirolin Co., New York, N. Y. Remedy for certain diseases. No. 79,577; Sept. 20; Gaz. vol. 158; p. 698.
Hoffmann-La Roche Chemical Works, The, New York, N. Y. Bismuth oxyiodo-gallate. No. 79,760; Oct. 4; Gaz. vol. 159; p. 238.
Hoffmann-La Roche Chemical Works, New York, N. Y. Medicinal tonic. No. 80,361; Dec. 13; Gaz. vol. 161; p. 525.
Hoffmann-La Roche Chemical Works, The, New York, N. Y. Remedy for cutaneous diseases. No. 80,424; Dec. 20; Gaz. vol. 161; p. 749.
Hofmeister, Johann, Incorporated, Chicago, Ill. Extracts for making beer. No. 78,973; July 26; Gaz. vol. 156; p. 1062.
Hogg, Mary, Buffalo, N. Y. Medicinal plasters. No. 78,178; May 31; Gaz. vol. 154; p. 1406.
Hohlfeld, Herman L., Philadelphia, Pa. Hammocks. No. 79,339; Aug. 30; Gaz. vol. 157; p. 1239.
Holbrook Mfg. Co., New York, N. Y. Scouring-soap and cleaning-powder. No. 76,622; Feb. 1; Gaz. vol. 151; p. 190.

Holbrooks Limited, Birmingham, London, and Manchester, England. Sauce for seasoning foods. No. 79,578; Sept. 20; Gaz. vol. 158; p. 698.
Hollander, Charles S., St. Louis, Mo. Acid pyrogallic crystals. No. 79,579; Sept. 20; Gaz. vol. 158; p. 698.
Hollander, Louis, Philadelphia, Pa. Collar-stiffeners made of celluloid and linen. No. 77,372; Apr. 5; Gaz. vol. 153; p. 267.
Hollander & Son, A., Newark, N. J. Skins and furs. No. 78,518; June 21; Gaz. vol. 155; p. 796.
Hollingshead, William R., Buffalo, N. Y. Metal and shoe polishes and polishing-mittens. No. 80,425; Dec. 20; Gaz. vol. 161; p. 749.
Hollingsworth & Whitney Co., Boston, Mass. Writing and wrapping papers. No. 80,056; Nov. 1; Gaz. vol. 160; p. 254.
Hollingsworth & Whitney Co., Boston, Mass. Writing and wrapping papers. No. 80,123; Nov. 8; Gaz. vol. 160; p. 489.
Holliway, John P., St. Joseph, Mo. Medicines for piles. No. 79,580; Sept. 20; Gaz. vol. 158; p. 698.
Holloway, Thomas, London, England. Ointment. Nos. 79,340–1; Aug. 30; Gaz. vol. 157; p. 1239.
Holloway, Thomas, London, England. Pills. No. 79,342; Aug. 30; Gaz. vol. 157; p. 1239.
Holloway, Thomas, London, England. Ointment. No. 79,976; Oct. 25; Gaz. vol. 159; p. 987.
Holmes, Samuel L., Detroit, Mich. Pharmaceutical preparations. No. 78,328; June 7; Gaz. vol. 155; p. 302.
Holmquist & Co., Chicago, Ill. Curtain-stretchers. No. 77,809; May 10; Gaz. vol. 154; p. 509.
Holophane Glass Company, New York, N. Y. Glassware. Nos. 78,709–13; July 5; Gaz. vol. 156; p. 254.
Holt, Benjamin, Stockton, Cal. Traction-engines and harvesters. No. 79,056; Aug. 2; Gaz. vol. 157; p. 203.
Holt & Company, New York, N. Y. Wheat-flour. No. 76,688; Feb. 8; Gaz. vol. 151; p. 446.
Holt & Company, New York, N. Y. Wheat-flour. No. 76,916; Feb. 22; Gaz. vol. 151; p. 1011.
Holt & Company, New York, N. Y. Wheat-flour. No. 79,211; Aug. 16; Gaz. vol. 157; p. 750.
Holt & Company, New York, N. Y. Wheat-flour. No. 79,672; Sept. 27; Gaz. vol. 158; p. 880.
Holz Manufacturing Co., The, Cleveland, Ohio. Bottle-holder. No. 79,582; Sept. 20; Gaz. vol. 158; p. 698.
Holzapfels Limited, Newcastle-upon-Tyne, England. Enamel. No. 77,158; Mar. 15; Gaz. vol. 152; p. 728.
Home Coming Stove Polish Co., Piqua, Ohio. Stove-polish. No. 77,103; Mar. 8; Gaz. vol. 152; p. 484.
Home Fertilizer & Chemical Company, Baltimore, Md. Fertilizers. Nos. 77,396–400; Apr. 5; Gaz. vol. 153; p. 268.
Home Supply Co., The, Paterson, N. J. Salves. No. 77,104; Mar. 8; Gaz. vol. 152; p. 484.
Home Treatment Remedy Co., The, Sault Ste. Marie, Mich. Medicinal suppositories, &c. No. 79,493; Sept. 13; Gaz. vol. 158; p. 478.
Homophon Company, G. m. b. H., Berlin, Germany. Talking-machines and supplies therefor. No. 78,099; May 31; Gaz. vol. 154; p. 1404.
Hood & Co., J. E., Sparta, Ill. Signs. Nos. 77,315–16; Mar. 29; Gaz. vol. 152; p. 1220.
Hood & Co., J. E., Sparta, Ill. Signs. No. 77,373; Apr. 5; Gaz. vol. 153; p. 267.
Hoofer, Charles F., Spokane, Wash. Insecticide. No. 77,540; Apr. 19; Gaz. vol. 153; p. 818.
Hopewell Brothers, Newton, Mass. Soap. No. 79,673; Sept. 27; Gaz. vol. 158; p. 880.
Hopewell Brothers, Newton, Mass. Metal-polish. No. 79,674; Sept. 27; Gaz. vol. 158; p. 880.
Hopkins & Allen Arms Company, The, Norwich, Conn. Revolvers. No. 78,383; June 7; Gaz. vol. 155; p. 303.
Hopkins, Wilber S., Chicago, Ill. Olive-oil. No. 77,920; May 17; Gaz. vol. 154; p. 831.
Hopkins, William B., Washington, D. C. Effervescent salts. No. 77,105; Mar. 8; Gaz. vol. 152; p. 484.
Horn & Bro., W. O., New York, N. Y. Cravats, neckties, and neckscarfs. No. 76,442; Jan. 18; Gaz. vol. 150; p. 821.
Horn & Bro., W. O., New York, N. Y. Dress-ties. No. 80,057; Nov. 1; Gaz. vol. 160; p. 254.
Hornor-Gaylord Company, The, Clarksburg, W. Va. Wheat-flour. No. 78,880; July 19; Gaz. vol. 156; p. 793.
Horsewhip Company, The, Westfield, Mass. Horsewhips. No. 79,979; Oct. 25; Gaz. vol. 159; p. 987.
Horsey, Edgar T., Cleveland, Ohio. Pneumatic-tire patches. No. 78,881; July 19; Gaz. vol. 156; p. 793.
Horton, Fred E., Chittenden, Vt. Liniment. No. 79,910; Oct. 18; Gaz. vol. 159; p. 743.
Houghton, Allen W., Hatfield, Mass. Spark-plugs and spark-plug protectors. No. 78,882; July 19; Gaz. vol. 156; p. 793.
Houghton, George A., Portland, Me. Lubricating and metal and wood cleaning oil. No. 79,911; Oct. 18; Gaz. vol. 159; p. 744.
House of Johnson, Inc., The, Baltimore, Md. Remedy for catarrh, hay-fever, asthma, and colds. No. 78,883; July 19; Gaz. vol. 156; p. 794.
Houseweller, Joseph, Albany, N. Y. Remedy for headaches, neuralgia, and heartburn. No. 79,675; Sept. 27; Gaz. vol. 158; p. 880.
Howe Scale Company, The, Rutland, Vt. Safes. No. 77,241; Mar. 22; Gaz. vol. 152; p. 954.
Hoyt Metal Company, St. Louis, Mo. Antifriction-bearing metal. No. 78,802; July 12; Gaz. vol. 156; p. 534.
Hubbard, Harry L., Hayden Lake, Idaho. Soldering-fluid compounds. No. 80,124; Nov. 8; Gaz. vol. 160; p. 489.
Hubbell, Ray, Northville, N. Y. Oil-cloth and linoleum binding. No. 77,242; Mar. 22; Gaz. vol. 152; p. 954.
Hubbell, Ray, Northville, N. Y. Brass binding for oiled cloth and linoleum. No. 77,919; May 17; Gaz. vol. 154; p. 831.
Hudetz & Cie., K., Jungbunzlau, Austria-Hungary. Soaps. No. 77,464; Apr. 12; Gaz. vol. 153; p. 542.
Hudson, Charles E., Leominster, Mass. Garden-hose mender. Nos. 77,541–2; Apr. 19; Gaz. vol. 153; p. 818.
Hudson & Co., Mattituck, N. Y. Canned fruits and vegetables. No. 79,282; Aug. 23; Gaz. vol. 157; p. 996.
Huelsenkamp, Clement J., Habana, Cuba. Pineapple-juice. No. 79,912; Oct. 18; Gaz. vol. 159; p. 744.
Huiskamp Bro's Co., The, Keokuk, Iowa. Leather boots and shoes. No. 77,650; Apr. 26; Gaz. vol. 153; p. 1078.
Hull, Harry L., Chicago, Ill. Remedy to reduce fat. No. 80,185; Nov. 15; Gaz. vol. 160; p. 769.
Hume, Robert D., San Francisco, Cal. Canned salmon. No. 77,068; Mar. 8; Gaz. vol. 152; p. 483.
Humphrey Taylor and Company, Limited, London, England. Crême de menthe. No. 77,106; Mar. 8; Gaz. vol. 152; p. 484.
Humphryes Manufacturing Company, Mansfield, Ohio. Certain plumbing supplies. No. 76,669; Feb. 8; Gaz. vol. 151; p. 446.
Humphryes Manufacturing Company, Mansfield, Ohio. Hand and power pumps of iron and brass. No. 76,689; Feb. 8; Gaz. vol. 151; p. 446.
Hunnewell Soap Co., The, Cincinnati, Ohio. Soaps and cleaning-powders. No. 77,107; Mar. 8; Gaz. vol. 152; p. 484.
Hunt Brothers Company, San Francisco, Cal. Canned fruits. No. 77,731; May 3; Gaz. vol. 154; p. 248.
Hunt Brothers Company, San Francisco, Cal. Canned fruits and vegetables. No. 79,761; Oct. 4; Gaz. vol. 159; p. 238.
Hunt Brothers Company, San Francisco, Cal., assignor to Sprague Warner & Company, Chicago, Ill. Canned fruits. No. 80,475; Dec. 27; Gaz. vol. 161; p. 1039.
Hunt and Co., M. A., Cincinnati, Ohio. Mattresses and bed-springs. Nos. 78,803–4; July 12; Gaz. vol. 156; p. 534.
Hunt and Co., M. A., Cincinnati, Ohio. Mattresses and bed-springs. No. 78,884; July 19; Gaz. vol. 156; p. 794.
Hunter, Herbert L., Bessemer, Ala. Glue. No. 79,913; Oct. 18; Gaz. vol. 159; p. 744.
Huott Publishing Company, New York, N. Y. Trade journals. No. 78,714; July 5; Gaz. vol. 156; p. 254.
Hurlbut, E. T. M., Sebastopol, Cal. Remedy for poison-oak poisoning. No. 78,715; July 5; Gaz. vol. 156; p. 254.
Hurst & Company, New York, N. Y. Books. No. 80,476; Dec. 27; Gaz. vol. 161; p. 1039.
Hurst & Company, John E., Baltimore, Md. Certain fancy goods and notions. No. 76,568; Feb. 1; Gaz. vol. 151; p. 189.
Hurst & Company, John E., Baltimore, Md. Certain clothing. No. 76,670; Feb. 8; Gaz. vol. 151; p. 446.
Huston Biscuit Co., Birmingham, Ala. Crackers, cakes, candied popcorn, and peanuts. No. 78,805; July 12; Gaz. vol. 156; p. 534.
Hutchens & Potter, Johnstown, N. Y. Gloves. Nos. 78,005–6; May 24; Gaz. vol. 154; p. 1104.
Hutchison, Jno. M., Jewell, Kans. Skin-lotion. No. 79,128; Aug. 9; Gaz. vol. 157; p. 482.
Hutzler Brothers Co. of Baltimore City, Baltimore, Md. Certain toilet preparations, perfumery, and tooth-pastes. No. 77,317; Mar. 29; Gaz. vol. 152; p. 1220.
Huyler's, New York, N. Y. Candy and chocolate. No. 78,606; June 28; Gaz. vol. 155; p. 1038.
Huyler's, New York, N. Y. Candy. No. 79,283; Aug. 23; Gaz. vol. 157; p. 996.
Hyams and Hamerschlag, New York, N. Y. Ladies' dresses, coats, and outer and under skirts. No. 76,972; Mar. 1; Gaz. vol. 152; p. 225.
Hyde & Chappel, Rochester, N. Y. Chewing-gum. No. 79,425; Sept. 6; Gaz. vol. 158; p. 224.
Hygienic Food Co., Battle Creek, Mich. Cereal breakfast food. No. 77,651; Apr. 26; Gaz. vol. 153; p. 1078.
Hygienic Products Company, The, Canton, Ohio. Soap. No. 77,465; Apr. 12; Gaz. vol. 153; p. 542.
Hymans, James, London, England. Haircloth in the piece. No. 79,057; Aug. 2; Gaz. vol. 157; p. 203.
Iannace, Philip, Philadelphia, Pa. Remedy for rheumatism, coughs, and stomach troubles. No. 78,806; July 12; Gaz. vol. 156; p. 534.
Iannarone, Frank P., Los Angeles, Cal. Preparation for polishing brass, &c. No. 80,426; Dec. 20; Gaz. vol. 161; p. 749.
Iannarone, Frank P., Los Angeles, Cal. Preparation for cleaning and polishing silver, gold, &c. No. 80,477; Dec. 27; Gaz. vol. 161; p. 1039.
Ideal Coated Paper Co., Tenafly, N. J., and Brookfield, Mass. Gummed paper. No. 77,543; Apr. 19; Gaz. vol. 153; p. 818.

Alphabetical list of registrants of trade-marks—Continued.

Ideal Coffee and Tea Company, St. Louis, Mo. Baking powder and soda. No. 78,422; June 14; Gaz. vol. 155; p. 550.
Ideal Manufacturing Company, Sanford, Me. Mechanical impact fly-killers. No. 79,980; Oct. 25; Gaz. vol. 159; p. 988.
Ideal Plating Company, Marlboro, Mass. Certain vehicles and parts thereof. No. 77,024; Mar. 1; Gaz. vol. 152; p. 227.
Illinois Watch Case Co., Elgin, Ill. Watch cases and movements. No. 77,052; Mar. 8; Gaz. vol. 152; p. 483.
Illinois Watch Case Co., Elgin, Ill. Watchcases. No. 78,974; July 26; Gaz. vol. 156; p. 1062.
Illinois Watch Case Co., Elgin, Ill. Watch cases and movements. No. 79,284; Aug. 23; Gaz vol. 157; p. 996.
Illinois Watch Case Co., Elgin, Ill. Watch cases and movements. No. 79,494; Sept. 13; Gaz. vol. 158; p. 478.
Illinois Watch Case Co., Elgin, Ill. Watch cases and movements. No. 79,676; Sept. 27; Gaz. vol. 158; p. 880.
Imperial Chemical Mfg. Co., New York, N. Y. Toilet preparations. No. 76,716; Feb. 8; Gaz. vol. 151; p. 447.
Impervious Products Company, New York, N. Y. Waterproofing composition. No. 80,224; Nov. 22; Gaz. vol. 160; p. 1033.
Incinerator Company of America, The, New York, N. Y. Garbage-crematories. No. 80,478; Dec. 27; Gaz. vol. 161; p. 1039.
Independent Baking Co., Davenport, Iowa. Biscuit. No. 78,329; June 7; Gaz. vol. 155; p. 302.
Independent Button and Machine Company, Chicago, Ill. Button molds and rims. No. 77,007; May 24; Gaz. vol. 154; p. 1104.
Independent Coal & Coke Co., Salt Lake City, Utah. Coal and coke. No. 76,592; Feb. 1; Gaz. vol. 151; p. 189.
Independent Coal & Coke Co., Salt Lake City, Utah. Coal and coke. Nos. 76,917–18; Feb. 22; Gaz. vol. 151; p. 1011.
Independent Match Co., The, Philadelphia, Pa. Matches. Nos. 79,835–6; Oct. 11; Gaz. vol. 159; p. 485.
Independent Moving Pictures Co. of America, Chicago, Ill. Moving-picture films. No. 77,467; Apr. 12; Gaz. vol. 153; p. 542.
Independent Whip Co., Westfield, Mass. Whips. No. 79,914; Oct. 18; Gaz. vol. 159; p. 744.
Indian Hill Citrus Association, North Pomona, Cal. Citrus fruits. No. 76,919; Feb. 22; Gaz. vol. 151; p. 1011.
Indian Hill Citrus Association, North Pomona, Cal. Citrus fruits. No. 77,468; Apr. 12; Gaz. vol. 153; p. 542.
Indian Refining Company, Inc., Augusta, Me., and Cincinnati, Ohio. Lubricating-oils. No. 77,159; Mar. 15; Gaz. vol. 152; p. 728.
Indian Refining Company, Inc., Augusta, Me., and Cincinnati, Ohio. Petroleum products. No. 79,215; Aug. 16; Gaz. vol. 157; p. 750.
Indiana Canning Company, Evansville, Ind. Canned tomatoes. No. 79,058; Aug. 2; Gaz. vol. 157; p. 204.
Indiana Cotton Mills, Cannelton, Ind. Cotton sheeting. No. 79,213; Aug. 16; Gaz. vol. 157; p. 750.
Indiana Pharmaceutical Company, Fort Wayne and Indianapolis, Ind. Remedy for nerve diseases. No. 77,732; May 3; Gaz. vol. 154; p. 248.
Indiana Stove Works, Evansville, Ind. Stoves and ranges and parts thereof. No. 79,129; Aug. 9; Gaz. vol. 157; p. 482.
Indianapolis Brewing Co., Indianapolis, Ind. Beer. No. 79,214; Aug. 16; Gaz. vol. 157; p. 750.
Indianapolis Brush & Broom Mfg. Co., Indianapolis, Ind. Brooms, brushes, and mops. No. 76,545; Jan. 25; Gaz. vol. 150; p. 1038.
Ingersoll Candy Company, San Diego, Cal. Chocolates. No. 78,179; May 31; Gaz. vol. 154; p. 1406.
Ingram-Richardson Manufacturing Company, Beaver Falls, Pa. Advertising-signs. No. 78,975; July 26; Gaz. vol. 156; p. 1062.
Initial Company, Inc., The, Wytheville, Va. Embroidery-patterns. No. 79,584; Sept. 20; Gaz. vol. 158; p. 698.
Intemann, Ernest A. G., Jr., New York, N. Y. Candies, ice-cream, and ices. No. 76,446; Jan. 18; Gaz. vol. 150; p. 821.
Inter-State Grocer Company, The, Joplin, Mo. Certain foods. No. 78,520; June 21; Gaz. vol. 155; p. 796.
International Acheson Graphite Company, Niagara Falls, N. Y. Lubricants. No. 78,519; June 21; Gaz. vol. 155; p. 796.
International Acheson Graphite Co., Niagara Falls, N. Y. Lubricants containing graphite. No. 79,915; Oct. 18; Gaz. vol. 159; p. 744.
International Banana Food Co., Chicago, Ill. Certain food and beverage. No. 76,330; Jan. 4; Gaz. vol. 150; p. 262.
International Banana Food Co., Chicago, Ill. Compound of roasted bananas and coffee. No. 76,447; Jan. 18; Gaz. vol. 150; p. 821.
International Banana Food Co., Chicago, Ill. Certain foods. No. 76,488; Jan. 18; Gaz. vol. 150; p. 823.
International Chemical & Drug Co., New York, N. Y. Remedy for rheumatism, sciatica, &c. No. 77,160; Mar. 15; Gaz. vol. 152; p. 728.
International Cork Company, Brooklyn, N. Y. Bottle-stoppers. No. 77,041; Mar. 1; Gaz. vol. 152; p. 227.
International Cork Company, Brooklyn, N. Y. Cork. No. 78,607; June 28; Gaz. vol. 155; p. 1038.
International Pulp Company, New York, N. Y. Certain powder. No. 78,180; May 31; Gaz. vol. 154; p. 1406.
International Silver Company, Meriden, Conn. Silver-plated flat and hollow ware. No. 77,810; May 10; Gaz. vol. 154; p. 509.
Interstate Remedy Co., Detroit, Mich. Remedies for diseases of the bladder and kidneys. No. 77,161; Mar. 15; Gaz. vol. 152; p. 728.
Iowa Biscuit Co., Burlington, Iowa. Crackers and biscuits. No. 78,240; May 31; Gaz. vol. 154; p. 1408.
Iowa Dairy Separator Company, Waterloo, Iowa. Internal-combustion engines. No. 76,690; Feb. 8; Gaz. vol. 151; p. 446.
Iowa Dairy Separator Company, Waterloo, Iowa. Internal-combustion engines. Nos. 79,981–3; Oct. 25; Gaz. vol. 159; p. 988.
Ipswich Mills, Boston, Mass. Hosiery. Nos. 77,243–4; Mar. 22; Gaz. vol. 152; p. 954.
Irish Industrial Development Association (Incorporated), The, Cork, Ireland. Whisky. No. 79,059; Aug. 2; Gaz. vol. 157; p. 204.
Iroquois Iron Works, Buffalo, N. Y. Steam-rollers. No 76,448; Jan. 18; Gaz. vol. 150; p. 821.
Irwin & Company, A. P., Philadelphia, Pa., and New York, N. Y. Tea. No. 79,495; Sept. 13; Gaz. vol. 158; p. 478.
Isaac Harter Milling Company, The, Toledo and Fostoria, Ohio. Wheat-flour. No. 79,668; Sept. 27; Gaz. vol. 158; p. 879.
Isaac Weil & Sons Inc., Minneapolis, Minn. Whisky. No. 77,544; Apr. 19; Gaz. vol. 153; p. 818.
Isaacs & Co., Chas., New York, N. Y. Ladies' and misses' outer suits, dresses, and coats. No. 76,976; Mar. 1; Gaz. vol. 152; p. 225.
Isaacs, Moses, New York, N. Y. Handkerchiefs. No. 78,608; June 28; Gaz. vol. 155; p. 1038.
Isern, Evaristo R., Granja de Escarpe and Castellvell y Vilar, Spain. Remedy for seasickness. No. 79,496; Sept. 13; Gaz. vol. 158; p. 478.
Israel, Fred W., Wichita, Kans. Cough remedies and breath purifier. No. 78,008; May 24; Gaz. vol, 154; p. 1104.
Israel, Frederick W., Wichita, Kans. Remedy for certain diseases. No. 77,188; Mar. 15; Gaz. vol. 152; p. 729.
Itala-Film, Turin, Italy. Kinematographic films. No. 77,091; Mar. 8; Gaz. vol. 152; p. 484.
Italian Swiss Colony, San Francisco, Cal. Wines. No. 78,181; May 31; Gaz. vol. 154; p. 1406.
Italian Swiss Colony, San Francisco, Cal. Grape brandy. No. 78,182; May 31; Gaz. vol. 154; p. 1406.
Iten Biscuit Co., Omaha, Nebr. Crackers. No. 76,593; Feb. 1; Gaz. vol. 151; p. 190.
Iten Biscuit Co., Omaha, Nebr. Biscuits. No. 78,241; May 31; Gaz. vol. 154; p. 1408.
J. Allen Smith & Company, Knoxville, Tenn. Wheat-flour. No. 80,157; Nov. 8; Gaz. vol. 160; p. 490.
J. Dampney & Co. Ld., Cardiff, England. Compound in the nature of a paint. No. 78,944; July 26; Gaz. vol. 156; p. 1061.
J. Weller Company, The, Cincinnati, Ohio. Pickles, catsup, chilli sauce, mustard, preserves, jellies, and canned vegetables. No. 77,000; Mar. 1; Gaz. vol. 152; p. 226.
J. A. Folger & Company, San Francisco, Cal. Roasted and ground coffee. No. 77,318; Mar. 29; Gaz. vol. 152; p. 1220.
J. A. Hinds & Co. Incorporated, Rochester, N. Y. Wheat-flour. No. 76,560; Jan. 25; Gaz. vol. 150; p. 1038.
J. & A. McKechnie Brewing Co., Canandaigua, N. Y. Porter, ale, and stout. No. 79,995; Oct. 25; Gaz. vol. 159; p. 988.
J. A. Ruhl Clothing Company, St. Louis, Mo. Certain clothing. No. 78,449; June 14; Gaz. vol. 155; p. 550.
J. A. & S. W. Granbery, Newark, N. J., and New York, N. Y. Jewelry. No. 80,473; Dec. 27; Gaz. vol. 161; p. 1039.
J. B. Ford Company, The, Ford, Mich. Dry, soluble, alkali powders. No. 77,375; Apr. 5; Gaz. vol. 153; p. 267.
J. B. King & Co., New York, N. Y. Plaster-of-paris. No. 80,280; Nov. 29; Gaz. vol. 160; p. 1267.
J. B. Williams Company, The, Glastonbury, Conn. Soap. No. 78,032; May 24; Gaz. vol. 154; p. 1104.
J. B. Williams Company, The, Glastonbury, Conn. Soap. No. 78,475; June 14; Gaz. vol. 155; p. 551.
J. B. Williams Company, The, Glastonbury, Conn. Preparations for cleaning the teeth. No. 79,095; Aug. 2; Gaz. vol. 157; p. 205.
J. B. Williams Company, Glastonbury, Conn. Toilet water. No. 79,313; Aug. 23; Gaz. vol. 157; p. 997.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 76,885; Feb. 22; Gaz. vol. 151; p. 1010.
J. C. Blair Company, Huntingdon, Pa. Paper and blank books. No. 78,304; June 7; Gaz. vol. 155; p. 301.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. Nos. 78,675–6; July 5; Gaz. vol. 156; p. 253.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 79,032; Aug. 2; Gaz. vol. 157; p. 203.

Alphabetical list of registrants of trade-marks—Continued.

J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. Nos. 79,249–52; Aug. 23; Gaz. vol. 157; p. 995.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, and blank books. Nos. 79,641–2; Sept. 27; Gaz. vol. 158; p. 879.
J. C. Blair Company, Huntingdon, Pa. Envelops, tablets, and blank books. No. 79,957; Oct. 25; Gaz. vol. 159; p. 987.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 80,207; Nov. 22; Gaz. vol. 160; p. 1033.
J. & C. Fischer, New York, N. Y. Mechanical piano-players. No. 76,856; Feb. 22; Gaz. vol. 151; p. 1009.
J. C. Hall Company, The, Providence, R. I. Bond-paper. No. 77,811; May 10; Gaz. vol. 154; p. 509.
J. C. Hall Company, The, Providence, R. I. Bond-paper. No. 77,921; May 17; Gaz. vol. 154; p. 832.
J. D. Chisholm Chemical Company, Vicksburg, Miss. Headache remedies. No. 76,813; Feb. 15; Gaz. vol. 151; p. 727.
J. D. Riedel Aktiengesellschaft, Berlin, Germany. Remedy for rheumatism and grippe. No. 76,952; Mar. 1; Gaz. vol. 152; p. 225.
J. D. Riedel Aktiengesellschaft, Berlin, Germany, and New York, N. Y. Cholagogue. No. 78,352; June 7; Gaz. vol. 155; p. 302.
J. & E. Atkinson, Limited, London, England. Perfume, toilet powder and wash, and hair-lotion. No. 79,387; Sept. 6; Gaz. vol. 158; p. 223.
J. E. Duffield & Company, St. Louis, Mo. Tool-handles. No. 78,595; June 28; Gaz. vol. 155; p. 1038.
J. F. Humphreys & Co., Bloomington, Ill. Canned salmon, sardines, and blended coffee. No. 76,920; Feb. 22; Gaz. vol. 151; p. 1011.
J. F. Humphreys & Co., Bloomington, Ill. Certain foods. No. 77,069; Mar. 8; Gaz. vol. 152; p. 483.
J. H. Hoffecker Canning Company, Smyrna, Del. Canned fruits and vegetables. No. 77,238; Mar. 22; Gaz. vol. 152; p. 954.
J. H. Hoffecker Canning Company, Smyrna, Del. Canned vegetables. No. 77,419; Apr. 5; Gaz. vol. 153; p. 268.
J. H. Lucke Co., Cincinnati, Ohio. Cigars, cheroots, and stogies. No. 76,310; Jan. 4; Gaz. vol. 150; p. 262.
J. H. Williams & Co., Brooklyn, N. Y. Metal forgings. No. 79,618; Sept. 20; Gaz. vol. 158; p. 699.
J. H. Williams & Co., New York, N. Y. Metal forgings. No. 80,202; Nov. 15; Gaz. vol. 160; p. 770.
J. H. Zeilin & Company, Inc., Philadelphia, Pa. Menthol, glycerin, and gum-arabic tablets. No. 79,456; Sept. 6; Gaz. vol. 158; p. 225.
J. H. Zeilin & Company, Inc., Philadelphia, Pa. Medicine for certain diseases. No. 79,457; Sept. 6; Gaz. vol. 158; p. 225.
J. H. Zeilin & Company, Inc., Philadelphia, Pa. Remedy for certain diseases. No. 79,711; Sept. 27; Gaz. vol. 158; p. 881.
J. J. Badenoch Co., Chicago, Ill. Poultry food. No. 78,156; May 31; Gaz. vol. 154; p. 1406.
J. J. Badenoch Co., Chicago, Ill. Horse feed. No. 78,291; May 31; Gaz. vol. 154; p. 1409.
J. J. Georges & Son, Inc., Washington, D. C. Preparation for eradicating warts. No. 77,733; May 3; Gaz. vol. 154; p. 248.
J. J. Paper Co., The, Ithaca, N. Y. Combined labels and covers for fruit, jelly, and jam receptacles. No. 78,716; July 5; Gaz. vol. 156; p. 254.
J. J. Saville & Company, Limited, Sheffield, England. Steel. No. 76,398; Jan. 11; Gaz. vol. 150; p. 566.
J. J. Saville & Company, Sheffield, England. Steel. No. 77,401; Apr. 5; Gaz. vol. 153; p. 268.
J. J. Saville & Company, Sheffield, England. Steel. No. 77,420; Apr. 5; Gaz. vol. 153; p. 268.
J. J. Saville & Company, Limited, Sheffield, England. Steel. No. 77,885; May 10; Gaz. vol. 154; p. 512.
J. K. Armsby Co., The, Chicago, Ill., and San Francisco, Cal. Dried fruits. No. 76,691; Feb. 8; Gaz. vol. 151; p. 446.
J. K. Armsby Company, Chicago, Ill., and San Francisco, Cal. Dried raisins. Nos. 77,402–3; Apr. 5; Gaz. vol. 153; p. 268.
J. L. Glauberg Co., New York, N. Y. Ladies' combs, hair-pins, barrettes, and bandeaux. No. 77,922; May 17; Gaz. vol. 154; p. 832.
J. M. Bour Company, The, Toledo, Ohio. Blended coffee. No. 79,034; Aug. 2; Gaz. vol. 157; p. 203.
J. M. McCullough's Sons Co., The, Cincinnati, Ohio. Lawn-grass seed. Nos. 78,619–20; June 28; Gaz. vol. 155; p. 1038.
J. P. Davies Company, The, Dayton, Ohio. Soap. No. 78,069; May 31; Gaz. vol. 154; p. 1403.
J. S. Smith, Druce & Co. Ltd., London, England. Tom gin. No. 76,623; Feb. 1; Gaz. vol. 151; p. 190.
J. T. Clay & Sons, Limited, Rastrick, England. Cloths and stuffs of wool, worsted, or hair. No. 76,569; Feb. 1; Gaz. vol. 151; p. 189.
J. T. Fargason Company, Memphis, Tenn. Wheat-flour. No. 79,114; Aug. 9; Gaz. vol. 157; p. 481.
J. T. Polk Company, Greenwood, Ind. Canned vegetables, sauer-kraut, &c. No. 79,691; Sept. 27; Gaz. vol. 158; p. 880.
J. W. Butler Paper Company, Chicago, Ill. Book-paper. No. 77,469; Apr. 12; Gaz. vol. 153; p. 542.
J. W. Streeton Company, New York, N. Y. Silk ribbons. No. 77,132; Mar. 15; Gaz. vol. 152; p. 727.
Jackson Corset Company, Jackson, Mich. Corsets. No. 77,545; Apr. 19; Gaz. vol. 153; p. 818.
Jacob Strohauer & Sons' Co., Caro, Mich. Hoof-ointment. No. 79,168; Aug. 9; Gaz. vol. 157; p. 483.
Jacobs, Philip, Philadelphia, Pa. Salves. No. 77,245; Mar. 22; Gaz. vol. 152; p. 954.
Jacobs, Walter C., Newark, N. J. Electrotypes. No. 77,734; May 3; Gaz. vol. 154; p. 248.
Jaeger, William C., Philadelphia, Pa. Remedy for whooping-cough. No. 80,362; Dec. 13; Gaz. vol. 161; p. 525.
James Clark Leather Company, St. Louis, Mo. Leather boots and shoes. No. 78,494; June 21; Gaz. vol. 155; p. 795.
James McCreery & Company, New York, N. Y. Writing-paper, envelops, and visiting-cards. No. 79,994; Oct. 25; Gaz. vol. 159; p. 988.
James S. Kirk & Company, Chicago, Ill. Laundry, toilet, and scouring soap. No. 76,449; Jan. 18; Gaz. vol. 150; p. 821.
James W. Foster Company, The, Bath, N. H. Liniment. No. 78,787; July 12; Gaz. vol. 156; p. 533.
Jandus Electric Co., Cleveland, Ohio. Electric-lighting fixtures. No. 78,717; July 5; Gaz. vol. 156; p. 254.
Janitors & Porters Supply Company, St. Louis, Mo. Sweeping compound. No. 79,426; Sept. 6; Gaz. vol. 158; p. 224.
Janssen, George, Highlandtown, Md. Certain alcoholic beverages. No. 78,242; May 31; Gaz. vol. 154; p. 1408.
Jas. H. Forbes Tea & Coffee Company, St. Louis, Mo. Coffee. Nos. 78,699–700; July 5; Gaz. vol. 156; pp. 253–4.
Jas. H. Forbes Tea & Coffee Company, St. Louis, Mo. Coffee. No. 78,785; July 12; Gaz. vol. 156; p. 533.
Jas. H. Forbes Tea & Coffee Company, St. Louis, Mo. Coffee. No. 79,666; Sept. 27; Gaz. vol. 158; p. 879.
Jay, Rufus N., Springfield, Mo. Remedy for blood diseases. No. 76,938; Feb. 22; Gaz. vol. 151; p. 1011.
Jefferson, Edward Z., Pittsburg, Pa. Rubber belting and hose. No. 79,216; Aug. 16; Gaz. vol. 157; p. 750.
Jenkins, Isiah W., Youngstown, Ohio. Remedies for certain diseases. No. 78,330; June 7; Gaz. vol. 155; p. 302.
Jenkins, Thomas C., Pittsburg, Pa. Wheat-flour. Nos. 76,364–5; Jan. 11; Gaz. vol. 150; p. 565.
Jennings, Edgerton R., Chicago, Ill. Insecticides. No. 77,814; May 10; Gaz. vol. 154; p. 510.
Jewell Belting Company, Hartford, Conn. Waterproof adhesive cement. No. 76,570; Feb. 1; Gaz. vol. 151; p. 189.
Johann Hoff, New York, N. Y. Malted soda. No. 79,671; Sept. 27; Gaz. vol. 158; p. 880.
John Bedford & Sons Limited, Sheffield, England. Certain machine-tools. No. 76,886; Feb. 22; Gaz. vol. 151; p. 1010.
John Blaul's Sons Company, Birmingham, Iowa. Rolled oats, corn-starch, beans, and rice. No. 78,396; June 14; Gaz. vol. 155; p. 549.
John Boyle & Co., Inc., New York, N. Y. Storm-fronts and covers for vehicles. No. 77,162; Mar. 15; Gaz. vol. 152; p. 728.
John Danner Manufacturing Company, The, Canton, Ohio. Bookcases. No. 79,038; Aug. 2; Gaz. vol. 157; p. 203.
John E. Diament Company, Cedarville and Tuckahoe, N. J. Certain foods. No. 78,233; May 31; Gaz. vol. 154; p. 1408.
John F. Jelke Company, Chicago, Ill. Oleomargarin. No. 77,246; Mar. 22; Gaz. vol. 152; p. 954.
John F. Lalla Company, Chicago, Ill. Canned salmon. Nos. 77,812–13; May 10; Gaz. vol. 154; pp. 509–10.
John Giles & Sons, Limited, Redminster, Bristol, England. Boot-protectors of metal. No. 76,571; Feb. 1; Gaz. vol. 151; p. 189.
John H. Meyer Co., New York, N. Y. Cotton piece goods. No. 78,811; July 12; Gaz. vol. 156; p. 534.
John Hoffer Flouring Mill Company, Harrisburg, Pa. Wheat-flour. No. 77,070; Mar. 8; Gaz. vol. 152; p. 483.
John Hood Co., Boston, Mass. Amalgam tooth-fillings and dental gold. No. 78,801; July 12; Gaz. vol. 156; p. 534.
John Jameson & Son Limited, Dublin, Ireland. Whisky. No. 79,343; Aug. 30; Gaz. vol. 157; p. 1239.
John Pilling Shoe Company, Lowell, Mass. Leather boots and shoes. No. 79,689; Sept. 27; Gaz. vol. 158; p. 880.
John Postance Company, The, Cleveland, Ohio. Face powder and cream. No. 79,857; Oct. 11; Gaz. vol. 159; p. 486.
John Rothschild & Co., San Francisco, Cal. Canned fruits and vegetables. No. 77,001; Mar. 1; Gaz. vol. 152; p. 226.
John S. Lamson and Brother, New York, N. Y. Bitumen or asphaltum. No. 77,735; May 3; Gaz. vol. 154; p. 248.
John V. Farwell Company, Chicago, Ill. Certain clothing. No. 77,374; Apr. 5; Gaz. vol. 153; p. 267.
John V. Farwell Company, Chicago, Ill. Certain textiles. No. 79,045; Aug. 2; Gaz. vol. 157; p. 203.
John Wanamaker, New York, New York, N. Y. Gloves. No. 79,019; July 26; Gaz. vol. 156; p. 1063.

Alphabetical list of registrants of trade-marks—Continued.

John Wilsons' Successors, Ltd., London, England. Linen and hemp piece goods. No. 79,455; Sept. 6; Gaz. vol. 158; p. 225.
John Wyeth & Brother, Incorporated, Philadelphia, Pa. Medicinal pill. No. 76,476; Jan. 18; Gaz. vol. 150; p. 822.
Johns, Alfred L., Fort Wayne, Ind., assignor to Gilliam Manufacturing Company, Canton, Ohio. Harness-pads. No. 78,976; July 26; Gaz. vol. 156; p. 1062.
Johnson, David J., Chicago, Ill. Fertilizers. No. 78,977; July 26; Gaz. vol. 156; p. 1062.
Johnson & Field Mfg. Co., Racine, Wis. Fanning-mills, land-rollers, seeders, &c. No. 79,837; Oct. 11; Gaz. vol. 159; p. 486.
Johnson, Grafton, Greenwood, Ind. Canned vegetables. Nos. 78,243–5; May 31; Gaz. vol. 154; p. 1408.
Johnson, John L., Ridgefield Park, N. J. Toilet preparations for reducing flesh. No. 79,838; Oct. 11; Gaz. vol. 159; p. 486.
Johnson & Johnson, New Brunswick, N. J. Medicinal plasters. No. 76,624; Feb. 1; Gaz. vol. 151; p. 190.
Johnson, Marcus, St. Paul, Minn. Lotions. No. 78,100; May 31; Gaz. vol. 154; p. 1404.
Johnson, Mary E., trustee, Fitchburg, Mass. Bicycles. No. 78,331; June 7; Gaz. vol. 155; p. 302.
Johnson, Mary E., trustee, Fitchburg, Mass. Rifles, shotguns, pistols, and revolvers. Nos. 78,423–4; June 14; Gaz. vol. 155; p. 550.
Johnson, Mary E., trustee, Fitchburg, Mass. Rifles, shotguns, pistols, and revolvers. No. 78,978; July 26; Gaz. vol. 156; p. 1062.
Johnston Electric Company, Omaha, Nebr. Electrical apparatus and supplies. No. 77,871; May 10; Gaz. vol. 154; p. 511.
Jones, Anna L., Lynchburg, Va. Combined washstands and screens. No. 77,736; May 3; Gaz. vol. 154; p. 248.
Jones, Joseph W., New York, N. Y. Disks containing directions for following a given route. No. 80,427; Dec. 20; Gaz. vol. 161; p. 750.
Jones-Paddock Co., San Francisco, Cal. Fancy flavored tea. No. 76,921; Feb. 22; Gaz. vol. 151; p. 1011.
Jones, Virgil, Atlanta, Ga. Non-intoxicating tonic beverages and tablets and powders for making same. No. 78,101; May 31; Gaz. vol. 154; p. 1404.
Jonesville Manufacturing Company, Jonesville, S. C. Hosiery. No. 77,923; May 17; Gaz. vol. 154; p. 832.
Jorge, Tancredo D., Lisbon, Portugal. Cork. Nos. 77,781–2; May 3; Gaz. vol. 154; p. 249.
Joseph Lay Company, Ridgeville, Ind. Brooms. No. 76,515; Jan. 25; Gaz. vol. 150; p. 1037.
Joseph Lay Company, The, Ridgeville, Ind. Brooms. No. 79,065; Aug. 2; Gaz. vol. 157; p. 204.
Joseph Lay Company, The, Ridgeville, Ind. Brooms. Nos. 80,430–1; Dec. 20; Gaz. vol. 161; p. 750.
Joseph N. Eisendrath Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. Nos. 76,857–8; Feb. 22; Gaz. vol. 151; p. 1009.
Joseph N. Eisendrath Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. Nos. 77,071–2; Mar. 8; Gaz. vol. 152; p. 483.
Joseph N. Eisendrath Company, The, Chicago, Ill. Leather gloves, mittens, and gauntlets. No. 78,073; May 31; Gaz. vol. 154; p. 1403.
Joseph Sankey & Sons, Ltd., Bilston, England. Sheet-metal transformer and dynamo-plates. No. 79,791; Oct. 4; Gaz. vol. 159; p. 239.
Joseph Sankey & Sons, Ltd., Bilston, England. Iron and steel blooms, billets, bars, and sheets. No. 80,086; Nov. 1; Gaz. vol. 160; p. 255.
Judson Grocer Company, Grand Rapids, Mich. Tea, blended coffee, and mince-meat. No. 79,217; Aug. 16; Gaz. vol. 157; p. 750.
Judson Grocer Company, Grand Rapids, Mich. Tea, cornstarch, mince-meat, and lard. No. 79,218; Aug. 16; Gaz. vol. 157; p. 750.
Julius Kayser & Company, New York, N. Y. Gloves. No. 77,596; Apr. 19; Gaz. vol. 153; p. 819.
Julius Kessler & Co. (Inc.), Chicago, Ill. Whisky. No. 79,345; Aug. 30; Gaz. vol. 157; p. 1240.
"Jupiter" Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Certain explosives, fireworks, and matches. No. 79,916; Oct. 18; Gaz. vol. 159; p. 744.
Justin Seubert, Inc., Syracuse, N. Y. Cigars. No. 76,340; Jan. 4; Gaz. vol. 150; p. 263.
Justin Seubert, Inc., Syracuse, N. Y. Cigars. No. 79,303; Aug. 23; Gaz. vol. 157; p. 996.
K. k. landespriv. Milly-Kerzen-, Seifen- und Glycerin Fabrik von F. A. Sarg's Sohn & Cie., Vienna, Austria-Hungary. Perfumery and other toilet preparations. No. 79,448; Sept. 6; Gaz. vol. 158; p. 224.
K. k. landespriv. Milly-Kerzen-, Seifen-und Glycerin-Fabrik von F. A. Sarg's Sohn & Cie., Vienna, Austria-Hungary. Preparations for cleansing and preserving the teeth and mouth. No. 80,000; Oct. 25; Gaz. vol. 159; p. 988.
K. k. landespriv. Milly-Kerzen-, Seifen-und Glycerin-Fabrik von F. A. Sarg's Sohn & Co., Vienna, Austria-Hungary. Tooth paste, cream, powder, &c. No. 80,001; Oct. 25; Gaz. vol. 159; p. 988.
Kabo Corset Company, Chicago, Ill. Maternity-corsets. No. 80,139; Nov. 8; Gaz. vol. 160; p. 490.
Kahn & Frank, New York, N. Y. Hosiery. No. 77,815; May 10; Gaz. vol. 154; p. 510.
Kahn & Frank, New York, N. Y. Certain clothing. No. 80,363; Dec. 13; Gaz. vol. 161; p. 525.
Kahn Tailoring Company, Indianapolis, Ind. Men's and boys' suits and overcoats. No. 79,497; Sept. 13; Gaz. vol. 158; p. 478.
Kalamazoo Stationery Company, Kalamazoo, Mich. Writing-tablets, books, paper, and papeteries. No. 77,652; Apr. 26; Gaz. vol. 153; p. 1078.
Kalmus, Otto, Cincinnati, Ohio. Medicinal preparation. No. 77,924; May 17; Gaz. vol. 154; p. 832.
Kamenstein, Myer, New York, N. Y. Washboilers. No. 79,586; Sept. 20; Gaz. vol. 158; p. 698.
Kampfe Bros., New York, N. Y. Safety-razors. No. 78,247; May 31; Gaz. vol. 154; p. 1408.
Kane Varnish and Paint Remover Co., New York, N. Y. Liquid varnish and paint remover. No. 79,917; Oct. 18; Gaz. vol. 159; p. 744.
Kann Sons & Co., S., Washington, D. C. Cold-cream and talcum powder. No. 78,009; May 24; Gaz. vol. 154; p. 1104.
Kann Sons & Co., S., Washington, D. C. Candy. No. 79,344; Aug. 30; Gaz. vol. 157; p. 1240.
Kansas City Preserving and Manufacturing Co., Kansas City, Mo. Certain foods. No. 77,546; Apr. 19; Gaz. vol. 153; p. 818.
Kantorowicz Actien Gesellschaft, Hartwig. (See Kantorowicz, Hartwig, assignor.)
Kantorowicz, Hartwig, assignor to H. Kantorowicz Actien Gesellschaft, Posen, Germany. Stomach-bitters. No. 79,762; Oct. 4; Gaz. vol. 159; p. 238.
Kasten, Charles F., Baltimore, Md. Remedy for certain diseases. No. 78,885; July 19; Gaz. vol. 156; p. 794.
Katcher & Bro., A. D., New York, N. Y. Infants' and children's caps. No. 80,225; Nov. 22; Gaz. vol. 160; p. 1033.
Kattmann & Kneeland Tent Co., Houston, Tex. Canvas hammocks. No. 76,760; Feb. 15; Gaz. vol. 151; p. 725.
Kautschukgesellschaft Schön & Co., Harburg-on-the-Elbe, Germany. Rubber, gutta-percha, and balata. No. 76,625; Feb. 1; Gaz. vol. 151; p. 190.
Keen & Reville, New York, N. Y. Mohairs and sicilians. No. 76,653; Feb. 8; Gaz. vol. 151; p. 445.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. Nos. 80,125–6; Nov. 8; Gaz. vol. 160; p. 489.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. No. 80,186; Nov. 15; Gaz. vol. 160; p. 769.
Kelley Island Lime & Transport Company, The, Cleveland, Ohio. Lime and plaster. No. 79,840; Oct. 11; Gaz. vol. 159; p. 486.
Kells Company, The, Newburgh, N. Y. Shaving-soaps. No. 80,127; Nov. 8; Gaz. vol. 160; p. 489.
Kelly-Steinmetz Liquor Co., The, Minneapolis, Minn. Whisky. No. 77,872; May 10; Gaz. vol. 154; p. 511.
Kelly-Steinmetz Liquor Co., The, Minneapolis, Minn. Whisky. No. 79,629; Sept. 20; Gaz. vol. 158; p. 699.
Kendrick, Thos. W., Charlotte, N. C. Carbonated tonic beverage and syrup for making the same. No. 76,489; Jan. 18; Gaz. vol. 150; p. 823.
Kennedy, Robert S., New York, N. Y. Monthly magazine. No. 76,612; Feb. 1; Gaz. vol. 151; p. 190.
Kennedy, William L., Stockbridge, Ga. Remedy for piles. No. 76,939; Feb. 22; Gaz. vol. 151; p. 1011.
Kenosha Chemical Company, Kenosha, Wis. Varnish-dressing. No. 76,341; Jan. 4; Gaz. vol. 150; p. 263.
Kentucky Hide & Leather Company, The, Ludlow, Ky. Carriage, automobile, upholstering, &c., leather. No. 77,547; Apr. 19; Gaz. vol. 153; p. 818.
Kerner Manufacturing Company, Pittsburg, Pa. Bath-tubs, sinks, washbowls, &c. No. 80,059; Nov. 1; Gaz. vol. 160; p. 254.
Kessling, Frederick G., St. Louis, Mo. Remedy for coughs, colds, bronchitis, and lung troubles. No. 76,477; Jan. 18; Gaz. vol. 150; p. 822.
Key City Roofing Co., Dubuque, Iowa. Prepared roofings. No. 76,717; Feb. 8; Gaz. vol. 151; p. 447.
Keyer, Louis W., Dayton, Ohio. Cigar-boxes. No. 78,979; July 26; Gaz. vol. 156; p. 1062.
Keystone Chemical Manufacturing Company of New Jersey, The, Philadelphia, Pa. Sodium phosphate. No. 78,010; May 24; Gaz. vol. 154; p. 1104.
Keystone Nut Lock Mfg. Co., Pittsburg, Pa. Nut-locks and metal washers. No. 78,184; May 31; Gaz. vol. 154; p. 1406.
Keystone Steel & Wire Company, South Bartonville, Ill. Wire fence and barbed wire. No. 76,791; Feb. 15; Gaz. vol. 151; p. 726.
Keystone Varnish Co., Brooklyn, N. Y. Enamels and varnishes. No. 76,718; Feb. 8; Gaz. vol. 151; p. 447.
Kiggins & Tooker Co., New York, N. Y. Blank books. No. 79,587; Sept. 20; Gaz. vol. 158; p. 698.
Kiggins & Tooker Co., New York, N. Y. Diaries. No. 79,763; Oct. 4; Gaz. vol. 159; p. 238.
Kimball Bros. Co., Bath, Me. Certain chemicals. No. 77,108; Mar. 8; Gaz. vol. 152; p. 484.
Kimball Brothers Company, Bath, Me. Brooms, whisk-brooms, and scrub-brushes. No. 76,973; Mar. 1; Gaz. vol. 152; p. 225.
King Hardware Co., Atlanta, Ga. Tools. No. 79,285; Aug. 23; Gaz. vol. 157; p. 996.

Alphabetical list of registrants of trade-marks—Continued.

King Klip Company, New York, N. Y. Certain cutlery. No. 76,450; Jan. 18; Gaz. vol. 150; p. 821.
King Light Co., Peoria, Ill. Vapor-lamps and parts, gas-burners, and incandescent mantles. No. 79,427; Sept. 6; Gaz. vol. 158; p. 224.
Kingan and Company, Limited, Belfast, Ireland; Indianapolis, Ind.; Baltimore, Md.; Philadelphia, Pa., and Richmond, Va. Cured and salted meats. No. 77,357; Mar. 29; Gaz. vol. 152; p. 1221.
Kingan & Company, Limited, Belfast, Ireland; Indianapolis, Ind.; San Francisco, Cal.; Washington, D. C.; Richmond, Va.; Jacksonville, Fla.; Pittsburg and Philadelphia, Pa.; Baltimore, Md.; Syracuse and New York, N. Y., and Columbus, Ohio. Cured and smoked meats. No. 77, 548; Apr. 19; Gaz. vol. 153; p. 818.
Kinnell Manufacturing Company, The, Pittsfield, Mass. Overshoes, sole-pads, &c., for animals. No. 78,521; June 21; Gaz. vol. 155; p. 796.
Kinney Mfg. Co., Boston, Mass. Rotary pumps. No. 80,281; Nov. 29; Gaz. vol. 160; p. 1267.
Kinsey & Mahler Co., Peoria, Ill. Valves and cocks and parts thereof. No. 78,185; May 31; Gaz. vol. 154; p. 1406.
Kirchner, Edward, Waukegan, Ill. Remedy for hemorrhoids. No. 79,984; Oct. 25; Gaz. vol. 159; p. 988.
Kirshbaum & Son, R., Indianapolis, Ind. Certain clothing. No. 80,428; Dec. 20; Gaz. vol. 161; p. 750.
Kitzinger, Harry, New York, N. Y. Coats, capes, dresses, and outer suits. No. 76,744; Feb. 15; Gaz. vol. 151; p. 725.
Klaber, Emile A., New York, N. Y. Duplicating apparatus and certain stationery. No. 76,400; Jan. 11; Gaz. vol. 150; p. 566.
Klaine, Frank A., Cincinnati, Ohio. Cooking, heating, and gas stoves. No. 76,719; Feb. 8; Gaz. vol. 151; p. 447.
Klein & Company, E., New York, N. Y. Knitted athletic goods. No. 78,102; May 31; Gaz. vol. 154; p. 1404.
Klein, John V., Battle Creek, Nebr. Hair-tonics. No. 80,129; Nov. 8; Gaz. vol. 160; p. 489.
Klewe Bros., Sheboygan, Wis. Whisky. No. 77,925; May 17; Gaz. vol. 154; p. 832.
Klopfer, Friedrich A. V., Leubnitz, Germany. Vegetable protein food. No. 78,042; May 24; Gaz. vol. 154; p. 1105.
Klusewitz Bros., Reading, Pa. Hosiery. No. 80,226; Nov. 22; Gaz. vol. 160; p. 1033.
Knecht & Son, C. A., Cleveland, Ohio. Whisky. No. 77,358; Mar. 29; Gaz. vol. 152; p. 1221.
Knickerbocker Ice Company, Chicago, Ill. Ice. No. 80,060; Nov. 1; Gaz. vol. 160; p. 254.
Knight, George C., Chicago, Ill. Smoking-tobacco. No. 79,062; Aug. 2; Gaz. vol. 157; p. 204.
Knowles, Charles S., Boston, Mass. Switches and rosettes for electric wiring. No. 76,814; Feb. 15; Gaz. vol. 151; p. 727.
Knoxville Furniture Co., Knoxville, Tenn. Wood mantels. No. 79,130; Aug. 9; Gaz. vol. 157; p. 482.
Köbányai Polgári Serfözö Részvény Társaság, Budapest, Austria-Hungary. Beer. No. 79,841; Oct. 11; Gaz. vol. 159; p. 486.
Koffee Klear Co., Terre Haute, Ind. Coffee-clarifier. No. 78,609; June 28; Gaz. vol. 155; p. 1038.
Kokomo Canning Company, Kokomo, Ind. Canned vegetables. No. 77,319; Mar. 29; Gaz. vol. 152; p. 1220.
Kokomo Canning Company, Kokomo, Ind. Canned vegetables. No. 77,549; Apr. 19; Gaz. vol. 153; p. 818.
Kokomo Rubber Co., Kokomo, Ind. Rubber tires. No. 77,550; Apr. 19; Gaz. vol. 153; p. 818.
Königliche Regierung, Abteilung für direkte Steuern, Domänen und Forsten in Wiesbaden, Wiesbaden, Germany. Natural mineral waters. No. 77,470; Apr. 12; Gaz. vol. 153; p. 542.
Kopisch, William, Deer Creek, Okla. Remedy for hog-cholera. No. 78,610; June 28; Gaz. vol. 155; p. 1038.
Koppelman, Morris, New York, N. Y. Coats and coat-collars. No. 77,073; Mar. 8; Gaz. vol. 152; p. 483.
Kops Bros., New York, N. Y. Corsets. No. 77,320; Mar. 29; Gaz. vol. 152; p. 1220.
Kornfalfa Feed Milling Company, Kansas City, Mo. Stock and poultry food. No. 77,163; Mar. 15; Gaz. vol. 152; p. 728.
Kothe, Wells & Bauer Company, Indianapolis, Ind. Canned fruits, vegetables, pork and beans, &c. No. 80,317; Dec. 6; Gaz. vol. 161; p. 263.
Kothe, Wells & Bauer Company, Indianapolis, Ind. Certain foods. No. 80,429; Dec. 20; Gaz. vol. 161; p. 750.
Kraft & Cutter, New York, N. Y. Certain textiles. No. 78,103; May 31; Gaz. vol. 154; p. 1404.
Kraft & Cutter, New York, N. Y. Cotton piece goods. No. 79,678; Sept. 27; Gaz. vol. 158; p. 880.
Kraft, Ferdinand, San Francisco, Cal. Zwieback. No. 78,248; May 31; Gaz. vol. 154; p. 1408.
Krank, Alfred J., St. Paul, Minn. Toilet powder. No. 79,918; Oct. 18; Gaz. vol. 159; p. 744.
Krantz Brewing Co., The, Findlay, Ohio. Beer. No. 76,490; Jan. 18; Gaz. vol. 150; p. 823.
Krause, Paul, Dresden, Germany. Remedy against whooping-cough. No. 77,376; Apr. 5; Gaz. vol. 153; p. 267.
Kreuger, Fredrik E., London, England. Matches. Nos. 77,926–7; May 17; Gaz. vol. 154; p. 832.
Kreuger, Fredrik E., London, England. Matches. Nos. 78,886–7; July 19; Gaz. vol. 156; p. 794.
Kreuger, Fredrik E., London, England. Matches. No. 79,428; Sept. 6; Gaz. vol. 158; p. 224.
Kreuger, Fredrik E., London, England. Matches. Nos. 79,498–500; Sept. 13; Gaz. vol. 158; p. 478.
Kreuger, Fredrik E., London, England. Matches. No. 79,588; Sept. 20; Gaz. vol. 158; p. 698.
Kreuger, Fredrik E., London, England. Matches. Nos. 79,764–5; Oct. 4; Gaz. vol. 159; p. 238.
Kreuger, Fredrik E., London, England. Matches. Nos. 79,985–6; Oct. 25; Gaz. vol. 159; p. 988.
Kreuger, Fredrik E., London, England. Matches. Nos. 80,130–1; Nov. 8; Gaz. vol. 160; p. 490.
Kreuger, Fredrik E., London, England. Matches. No. 80,364; Dec. 13; Gaz. vol. 161; p. 525.
Krewel & Co., Gesellschaft mit beschränkter Haftung, Cologne, Germany. Ointments, tooth-pastes, salves, &c. No. 77,377; Apr. 5; Gaz. vol. 153; p. 267.
Kripke, Fritz, Berlin, Germany. Medicines. No. 78,104; May 31; Gaz. vol. 154; p. 1404.
Kristal-Glas-En Aardewerk Fabrieken De Sphinx Voorheen Petrus Regout & Co., Maastricht, Netherlands. Articles of earthenware. No. 78,611; June 28; Gaz. vol. 155; p. 1038.
Kroger Grocery & Baking Co., Cincinnati, Ohio. Certain foods. No. 76,561; Jan. 25; Gaz. vol. 150; p. 1038.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Canned corn. No. 79,589; Sept. 20; Gaz. vol. 158; p. 698.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Canned corn. No. 80,187; Nov. 15; Gaz. vol. 160; p. 769.
Krueger, Richard G., New York, N. Y. Clothes-trees. No. 79,679; Sept. 27; Gaz. vol. 158; p. 880.
Kruger, Darsie & Co., Liverpool, England. Wheat-flour. No. 78,522; June 21; Gaz. vol. 155; p. 796.
Kuehnel, Mr. and Mrs. Joseph, Cleveland, Ohio. Liniment. No. 78,612; June 28; Gaz. vol. 155; p. 1038.
Kuenzle & Streiff, New York, N. Y., and Manila, Philippine Islands. Cigars and cigarettes. No. 80,061; Nov. 1; Gaz. vol. 160; p. 254.
Kufeke, R., Bergedorf, near Hamburg, Germany. Dietetic food. No. 77,653; Apr. 26; Gaz. vol. 153; p. 1078.
Kuhl, John H., Peoria, Ill. Cleaning compound. No. 78,980; July 26; Gaz. vol. 156; p. 1062.
Kuhls, H. B. Fred., Brooklyn, N. Y. Plastic composition for filling seams in woodwork, &c. No. 77,737; May 3; Gaz. vol. 154; p. 248.
Kuhn, Henry, Boston, Mass. Films for kinetoscopes. No. 77,002; Mar. 1; Gaz. vol. 152; p. 226.
Kunath, Carles, Newport, Ky. Remedy for purifying the blood. No. 78,105; May 31; Gaz. vol. 154; p. 1404.
Kuntscher, Louis, Tarpon, Tex. Hair-tonic. No. 78,106; May 31; Gaz. vol. 154; p. 1404.
Kutschera, Frank, Chicago, Ill. Alcoholic extract of Alpine herbs. No. 78,668; June 28; Gaz. vol. 155; p. 1039.
L. Hess & Co., New York, N. Y. Linen, silk and cotton, and silk dress goods. No. 79,833; Oct. 11; Gaz. vol. 159; p. 485.
L. Pickert Fish Co., Boston, Mass. Canned foods. No. 78,273; May 31; Gaz. vol. 154; p. 1409.
L. Sonneborn Sons, Inc., New York, N. Y. Lubricating oils, greases, and pastes. No. 76,516; Jan. 25; Gaz. vol. 150; p. 1037.
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets. No. 77,003; Mar. 1; Gaz. vol. 152; p. 226.
La Favorite Rubber Manufacturing Co., Hawthorne, N. J. Rubber packings. No. 77,816; May 10; Gaz. vol. 154; p. 510.
La France Manufacturing Company, Philadelphia, Pa. Laundry soaps. No. 77,042; Mar. 1; Gaz. vol. 152; p. 227.
La Francesa Co., Louisville, Ky. Face-powder, rouge, and nail-polish. No. 80,227; Nov. 22; Gaz. vol. 160; p. 1033.
La Jara Milling & Elevator Company, The, La Jara, Colo. Wheat-flour. No. 78,888; July 19; Gaz. vol. 156; p. 794.
La Salle Varnish Co., Chicago, Ill. Painters' materials. No. 77,873; May 10; Gaz. vol. 154; p. 511.
Lachaise, A., Angoulême, France. Tooth powder, paste, and wash. No. 78,613; June 28; Gaz. vol. 155; p. 1038.
Lack Manufacturing Company, New York, N. Y. Ladies' undershirts, outer vests, and outer waists and dresses. No. 76,859; Feb. 22; Gaz. vol. 151; p. 1009.
Lakewood Chemical Company, The, Lakewood, Ohio. Certain chemical preparation. No. 77,247; Mar. 22; Gaz. vol. 152; p. 954.
Lamson Paragon Supply Company Limited, London, England. Ledgers, transfer-binders, and sheet-holders. No. 77,471; Apr. 12; Gaz. vol. 153; p. 542.
Landers, Frary & Clark, New Britain, Conn. Alcohol-heated samovars. No. 76,342; Jan. 4; Gaz. vol. 150; p. 263.
Lane, Charles D., Bridgeport, Conn., assignor to Frederick W. Lipps Company of Baltimore City. Candies. No. 79,766; Oct. 4; Gaz. vol. 159; p. 238.
Lane-Libby Fisheries Co., Vinal Haven, Me. Codfish, cusk, haddock, and hake. No. 79,063; Aug. 2; Gaz. vol. 157; p. 204.

Alphabetical list of registrants of trade-marks—Continued.

Langford, William S., Baltimore, Md. Stitched canvas belting. No. 78,249; May 31; Gaz. vol. 154; p. 1408.
Langhorne, William S., Jr., Portsmouth, Va. Remedy for certain named diseases. No. 79,429; Sept. 6; Gaz. vol. 158; p. 224.
Lanman & Kemp, New York, N. Y. Liniments. No. 77,817; May 10; Gaz. vol. 154; p. 510.
Lanman & Kemp, New York, N. Y. Liniments. No. 78,107; May 31; Gaz. vol. 154; p. 1404.
Lanman & Kemp, New York, N. Y. Toilet soap. No. 78,852; July 12; Gaz. vol. 156; p. 535.
Lansing, Abram G., New York, N. Y. Alkaline salts. No. 78,981; July 26; Gaz. vol. 156; p. 1062.
Larkin, Peter C., Toronto, Ontario, Canada. Tea. No. 79,219; Aug. 16; Gaz. vol. 157; p. 750.
Lasher & Lathrop Inc., New York, N. Y. Writing and printing paper. Nos. 78,108–11; May 31; Gaz. vol. 154; p. 1404.
Lasher & Lathrop Inc., New York, N. Y. Writing and printing paper. Nos. 79,346–7; Aug. 30; Gaz. vol. 157; p. 1240.
Lasher & Lathrop, Inc., New York, N. Y. Writing and printing paper. No. 80,318; Dec. 6; Gaz. vol. 161; p. 263.
Lattier, George F., Baltimore, Md. Device for transferring an object on a scale. No. 79,842; Oct. 11; Gaz. vol. 159; p. 486.
Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 77,321; Mar. 29; Gaz. vol. 152; p. 1220.
Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 78,384; June 7; Gaz. vol. 155; p. 303.
Lautz Bros. & Co., Buffalo, N. Y. Soap. Nos. 78,523–7; June 21; Gaz. vol. 155; p. 796.
Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 78,614; June 28; Gaz. vol. 155; p. 1038.
Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 78,718; July 5; Gaz. vol. 156; p. 254.
Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 78,807; July 12; Gaz. vol. 156; p. 534.
Lautz, William J., Buffalo, N. Y. Remedy for body-odors. No. 79,064; Aug. 2; Gaz. vol. 157; p. 204.
Lawrence Cement Company of Pennsylvania, The, Siegfried, Pa. Building-cement. No. 77,421; Apr. 5; Gaz. vol. 153; p. 268.
Lawson Publishing Company, The, New York, N. Y. Monthly magazine. No. 79,131; Aug. 9; Gaz. vol. 157; p. 482.
Laxamint Company, The. (See Dunn, David C., assignor.)
Laxamint Company, The. (See Havey, Marshall L., assignor.)
Le Blanc, Mary M., Oxford, Nebr. Liquid preparations for treating the complexion. No. 79,987; Oct. 25; Gaz. vol. 159; p. 988.
Leach, William A., Cincinnati, Ohio. Remedies for diseases of the respiratory organs and kidneys and rheumatic troubles. No. 76,940; Feb. 22; Gaz. vol. 151; p. 1011.
Leader Iron Works, Decatur, Ill. Pneumatic tanks and parts of same. No. 76,654; Feb. 8; Gaz. vol. 151; p. 445.
Leather and Rubber Vitalizing Co., San Francisco, Cal. Preservative compositions for leather and rubber goods. No. 79,630; Sept. 20; Gaz. vol. 158; p. 699.
Lechner, Frank X., Chicago, Ill. Insect-exterminator. No. 76,546; Jan. 25; Gaz. vol. 150; p. 1038.
Lee Broom & Duster Company, Lincoln, Nebr. Brooms. Nos. 80,062–6; Nov. 1; Gaz. vol. 160; p. 254.
Lee Broom & Duster Company, Lincoln, Nebr. Brooms. No. 80,365; Dec. 13; Gaz. vol. 161; p. 526.
Lee, William H., Chicago, Ill. Cook-books. No. 77,149; Mar. 15; Gaz. vol. 152; p. 727.
Lefebvre, Joseph R., Lawrence, Mass. Remedy for rheumatism. No. 78,528; June 21; Gaz. vol. 155; p. 796.
Leggett & Platt Spring Bed & Mfg. Co., Carthage, Mo. Spring-beds. No. 80,366; Dec. 13; Gaz. vol. 161; p. 526.
Lehman & Company, New York, N. Y. Ladies' hand-bags. No. 79,286; Aug. 23; Gaz. vol. 157; p. 996.
Lehn & Fink, New York, N. Y. Soap. No. 79,431; Sept. 6; Gaz. vol. 158; p. 224.
Lehon Company, The, Chicago, Ill. Rubber roofing. No. 79,287; Aug. 23; Gaz. vol. 157; p. 996.
Leighton-Wright Company, Buffalo, N. Y. Antirheumatic, antipyretic, and analgesic remedies. No. 78,112; May 31; Gaz. vol. 154; p. 1404.
Leisy Brewing Company, The, Peoria, Ill. Malt extract. No. 79,771; Oct. 4; Gaz. vol. 159; p. 238.
Leitz, Louis, Feuerbach, near Stuttgart, Germany. Certain articles of stationery. No. 77,654; Apr. 26; Gaz. vol. 153; p. 1078.
Lennox, Malcolm G., Philadelphia, Pa. Sauces and relishes. No. 78,615; June 28; Gaz. vol. 155; p. 1038.
Leo Grotte Mfg. Co., Omaha, Nebr. Non-alcoholic tonic beverages and tablets and powders for making same. No. 77,025; Mar. 1; Gaz. vol. 152; p. 227.
Leon, Leon S., Chicago, Ill. Embroidery-stamping outfits. No. 80,367; Dec. 13; Gaz. vol. 161; p. 526.
Leonard Brothers, Rockwall, Tex. Carbonated tonic beverage and syrup for making the same. No. 78,616; June 28; Gaz. vol. 155; p. 1038.
Lester, Jake W., Indianapolis, Ind. Medicine and salves. No. 77,928; May 17; Gaz. vol. 154; p. 832.
Lester, James H., Roanoke, Va. Remedy for certain diseases. No. 77,248; Mar. 22; Gaz. vol. 152; p. 954.
Letson, Allan G., Bloomington, Ill. Certain chemical preparations. No. 80,480; Dec. 27; Gaz. vol. 161; p. 1039.
Lett, Walter R., San Francisco, Cal. Knitted underwear and hosiery. No. 76,366; Jan. 11; Gaz. vol. 150; p. 565.
Leurent, Edouard, Tourcoing, France. Certain clothing. No. 77,929; May 17; Gaz. vol. 154; p. 832.
Leurent, Edouard, Tourcoing, France. Linen and wool piece goods. Nos. 80,228–30; Nov. 22; Gaz. vol. 160; p. 1033.
Leurent, Edouard, Tourcoing, France. Certain clothing. No. 80,481; Dec. 27; Gaz. vol. 161; p. 1039.
Levavasseur, Leon M. J. C., Puteaux, France. Explosion-motors and accessories. No. 78,529; June 21; Gaz. vol. 155; p. 796.
Lever Brothers Company, Portland, Me., and Cambridge, Mass. Preparation of oxygen. No. 78,425; June 14; Gaz. vol. 155; p. 550.
Levi Strauss & Co., San Francisco, Cal. Certain clothing. No. 79,707; Sept. 27; Gaz. vol. 158; p. 881.
Levussove, Louis, New York, N. Y. Human hair and animal hair. No. 76,491; Jan. 18; Gaz. vol. 150; p. 823.
Levy, Abraham I., Washington, D. C. Certain clothing. No. 80,368; Dec. 13; Gaz. vol. 161; p. 526.
Levy, Benjamin E., New York, N. Y. Powder-puffs. No. 80,369; Dec. 13; Gaz. vol. 161; p. 526.
Levy & Company, S., New York, N. Y. Cigars. No. 78,250; May 31; Gaz. vol. 154; p. 1408.
Levy Fils, A. Bernheim & Cie., Paris, France. Shedding for weaving-looms and jacquard machinery. No. 80,025; Nov. 1; Gaz. vol. 160; p. 253.
Levy & Marcus, New York, N. Y. Cravats, ties, and bows. No. 77,249; Mar. 22; Gaz. vol. 152; p. 954.
Levy & Son, S. J., New York, N. Y. Certain clothing. No. 78,426; June 14; Gaz. vol. 155; p. 550.
Lewis Publishing Co., The, St. Louis, Mo. Plastic molding material. No. 78,251; May 31; Gaz. vol. 154; p. 1408.
Lewis, Samuel, New York, N. Y. Towel-rollers. No. 78,252; May 31; Gaz. vol. 154; p. 1408.
Lexington Brewing Company, Lexington, Ky. Beer. No. 78,427; June 14; Gaz. vol. 155; p. 550.
Ley, Alice D., Wayne, Nebr. Playing-cards. No. 77,322; Mar. 29; Gaz. vol. 152; p. 1220.
Liberty Stove Company, Philadelphia, Pa. Cooking-stoves and portable ranges. No. 77,738; May 3; Gaz. vol. 154; p. 248.
Liddle, James S., Lockport, N. Y. Brooms. No. 79,432; Sept. 6; Gaz. vol. 158; p. 224.
Liebel, Louis, Erie, Pa. Salves. No. 76,290; Jan. 4; Gaz. vol. 150; p. 261.
Liebstadter Millinery Co., Kansas City, Mo. Ladies' hats. No. 78,332; June 7; Gaz. vol. 155; p. 302.
Lilly, Dungan & Co., Baltimore, Md. Cigars, little cigars, cigarettes, and smoking-tobacco. No. 79,433; Sept. 6; Gaz. vol. 158; p. 224.
Lilly, Dungan & Co., Baltimore, Md. Cigars, cigarettes, and tobacco. No. 79,501; Sept. 13; Gaz. vol. 158; p. 478.
Limberg & Co., W., Gifhorn, Germany. Glass chimneys for miners' lamps. No. 78,530; June 21; Gaz. vol. 155; p. 796.
Lindbeck & Nelson, Kewanee, Ill. Cough-drops. No. 78,186; May 31; Gaz. vol. 154; p. 1406.
Lindsay Producers Association, Lindsay, Cal. Oranges. No. 76,792; Feb. 15; Gaz. vol. 151; p. 726.
Lindsay Producers Association, Lindsay, Cal. Oranges. Nos. 77,250–1; Mar. 22; Gaz. vol. 152; p. 954.
Lindsay Thompson & Co., Limited, Belfast, Ireland. Linen thread. Nos. 78,011–12; May 24; Gaz. vol. 154; p. 1104.
Lindsay Thompson & Co., Limited, Belfast, Ireland. Linen thread. No. 78,470; June 14; Gaz. vol. 155; p. 551.
Linen Thread Co., The, New York, N. Y. Twine and cord. No. 80,069; Nov. 1; Gaz. vol. 160; p. 254.
Lingner, Karl A., Dresden, Germany. Means for preventing certain infections. No. 77,323; Mar. 29; Gaz. vol. 152; p. 1220.
Lingner, Karl A., Dresden, Germany. Tooth-powder and antiseptic mouth-wash. No. 77,930; May 17; Gaz. vol. 154; p. 832.
Lingner, Karl A., Dresden, Germany. Medicinal preparation. No. 78,617; June 28; Gaz. vol. 155; p. 1038.
Lingner, Karl A., Dresden, Germany. Soap. No. 79,133; Aug. 9; Gaz. vol. 157; p. 482.
Lippincott Co., Cincinnati, Ohio. Certain food. No. 76,815; Feb. 15; Gaz. vol. 151; p. 727.
Lipps-Murbach Company of Baltimore City, The, Baltimore, Md. Candy. No. 77,931; May 17; Gaz. vol. 154; p. 832.
Lister and Company, Limited, Bradford, England. Carpets and rugs. No. 76,451; Jan. 18; Gaz. vol. 150; p. 821.
Listman Mill Company, La Crosse, Wis. Wheat-flour. No. 77,655; Apr. 26; Gaz. vol. 153; p. 1078.

Alphabetical list of registrants of trade-marks—Continued.

Little, Adelbert P., Rochester, N. Y. Type-writer carbon-paper. No. 79,134; Aug. 9; Gaz. vol. 157; p. 482.
Little & Company, A. E., Lynn, Mass. Boots and shoes. No. 79,681; Sept. 27; Gaz. vol. 158; p. 880.
Littlehales, William J., New Britain, Conn. Equipment for toothache-relief. No. 78,253; May 31; Gaz. vol. 154; p. 1408.
Loane-Hiltz Engineering Company of Baltimore City, Baltimore, Md. Internal-combustion engines and parts thereof. No. 77,551; Apr. 19; Gaz. vol. 153; p. 818.
Lockwood, Brackett & Company, Boston, Mass. Olive-oil and orange-flower water for flavoring foods. No. 76,761; Feb. 15; Gaz. vol. 151; p. 725.
Lockwood Manufacturing Co., The, Cincinnati, Ohio. Metallic cooking utensils. No. 78,254; May 31; Gaz. vol. 154; p. 1408.
Lodge, Genevra R., Detroit, Mich. Automobiles. No. 77,874; May 10; Gaz. vol. 154; p. 511.
Loeb, Fleishman and Company, Los Angeles, Cal. Eggs. No. 77,656; Apr. 26; Gaz. vol. 153; p. 1078.
Loeb, Herman, Philadelphia, Pa. Traveling-bags, trunks, valises, and satchels. No. 77,552; Apr. 19; Gaz. vol. 153; p. 818.
Loefund & Co., Ed., Grunbach, Germany. Malt extract. No. 80,070; Nov. 1; Gaz. vol. 160; p. 254.
Loewenthal-Strauss Company, The, Cleveland, Ohio. Mint-julep. No. 77,472; Apr. 12; Gaz. vol. 153; p. 542.
Löloff, Dr., & Dr. Mayer, Breslau, Germany. Lactic-acid bacteria and dietetical preparations. No. 77,657; Apr. 26; Gaz. vol. 153; p. 1078.
Löloff, Dr., & Dr. Mayer, Breslau, Germany. Gargle. No. 77,658; Apr. 26; Gaz. vol. 153; p. 1078.
London & Sons, B., New York, N. Y. Mercerized spool and sewing cotton thread. No. 77,739; May 3; Gaz. vol. 154; p. 248.
Lone Star Blacking & Mfg. Co., Dallas, Tex. Polish for leather and shoes. No. 76,832; Feb. 15; Gaz. vol. 151; p. 727.
Lone Star Blacking & Mfg. Co., Dallas, Tex. Leather and shoe polish. No. 77,121; Mar. 8; Gaz. vol. 152; p. 485.
Lone Star Blacking & Mfg. Co., Dallas, Tex. Shoe and leather dressing. No. 78,255; May 31; Gaz. vol. 154; p. 1408.
Longlife Battery Co., New York, N. Y. Dry-cell batteries. No. 77,659; Apr. 26; Gaz. vol. 153; p. 1078.
Longman & Martinez, New York, N. Y. Paints, varnishes, oils, &c. Nos. 79,434–5; Sept. 6; Gaz. vol. 158; p. 224.
Longwell, Charles B., Wheeling, W. Va. Medicinal preparations. No. 80,370; Dec. 13; Gaz. vol. 161; p. 526.
Lonke, John, New York, N. Y. Yarns and threads No. 78,982; July 26; Gaz. vol. 156; p. 1062.
Lonsdale Bakery Co., The, Saylesville, R. I. Bread. No. 77,004; Mar. 1; Gaz. vol. 152; p. 226.
Loopuyt & Co., P., Schiedam, Netherlands. Gin. No. 78,043; May 24; Gaz. vol. 154; p. 1105.
Los Angeles Brewing Co., Los Angeles, Cal. Beer. No. 77,932; May 17; Gaz. vol. 154; p. 832.
Lothrop, Lee & Shepard Company, Boston, Mass. Books of fiction published serially. No. 76,977; Mar. 1; Gaz. vol. 152; p. 225.
Louis Metzger & Co., New York, N. Y. Artificial plumes. No. 79,593; Sept. 20; Gaz. vol. 158; p. 698.
Louis Sonn & Co., New York, N. Y. Girls' dresses. No. 77,740; May 3; Gaz. vol. 154; p. 248.
Louis Sonn & Co., New York, N. Y. Girls' dresses. No. 78,137; May 31; Gaz. vol. 154; p. 1405.
Louisville Cotton Oil Co., Louisville, Ky. Cotton-seed oil and butter-oil. No. 77,553; Apr. 19; Gaz. vol. 153; p. 818.
Louisville Cotton Oil Co., Louisville, Ky. Cotton-seed oil. No. 79,772; Oct. 4; Gaz. vol. 159; p. 238.
Louisville Pillow Co., Louisville, Ky. Bed-comforts. No. 79,289; Aug. 23; Gaz. vol. 157; p. 996.
Lovell-McConnell Manufacturing Company, Newark, N. J. Mechanically-operated signal horns and alarms. No. 80,319; Dec. 6; Gaz. vol. 161; p. 263.
Lowe, Theophilus, Seattle, Wash. Monthly magazines. No. 79,348; Aug. 30; Gaz. vol. 157; p. 1240.
Lubin Manufacturing Company, Philadelphia, Pa. Kinetoscopic films. No. 76,367; Jan. 11; Gaz. vol. 150; p. 565.
Luckenbach, D. & A., Bethlehem, Pa. Wheat-flour. No. 78,809; July 12; Gaz. vol. 156; p. 534.
Ludewig & Co., Fred., New York, N. Y. Hair-nets. No. 79,349; Aug. 30; Gaz. vol. 157; p. 1240.
Ludewig & Co., Frederick, New York, N. Y. Hair-nets. No. 79,502; Sept. 13; Gaz. vol. 158; p. 478.
Ludlow-Saylor Wire Company, St. Louis, Mo. Woven-wire fence. No. 79,682; Sept. 27; Gaz. vol. 158; p. 880.
Ludlow-Saylor Wire Company, St. Louis, Mo. Wire-cloth and certain named hardware. No. 80,231; Nov. 22; Gaz. vol. 160; p. 1033.
Lufbery, George F., Jr., Elizabeth, N. J. Packing. No. 79,066; Aug. 2; Gaz. vol. 157; p. 204.
Luneschloss, J. S., New York, N. Y. Wrapping and printing paper. No. 79,919; Oct. 18; Gaz. vol. 159; p. 744.
Lusk, Roy A., New York, N. Y. Compound mustard. No. 77,473; Apr. 12; Gaz. vol. 153; p. 542.
Lynch, Ricardo, Buenos Ayres, Argentina. Remedy for cattle, horses, sheep, and other animals. No. 76,816; Feb. 15; Gaz. vol. 151; p. 727.
Lynn, Elijah H., Sr., Brookport, Ill. Salve. No. 79,773; Oct. 4; Gaz. vol. 159; p. 238.
Lynn, Elijah H., Sr., Brookport, Ill. Lotions. No. 79,774; Oct. 4; Gaz. vol. 159; p. 238.
Lyon, Frank B., Cuba, N. Y. Cream-cheeses. No. 77,933; May 17; Gaz. vol. 154; p. 832.
Lyster Chemical Company, Lawrence, Mass. Disinfectant and antiseptic. No. 79,067; Aug. 2; Gaz. vol. 157; p. 204.
M-Green-Frevert Co., Spokane, Wash. Soldering fluid. No. 78,705; July 5; Gaz. vol. 156; p. 254.
M. Winter Lumber Company, Sheboygan, Wis. Certain furniture. No. 77,422; Apr. 5; Gaz. vol. 153; p. 268.
M. A. Liotta Chemical Company, The, New York, N. Y. Hair-tonics. No. 76,416; Jan. 11; Gaz. vol. 150; p 567.
M. C. Peters Mill Co., Omaha, Nebr. Stock and poultry food. No. 76,764; Feb. 15; Gaz. vol. 151; p. 725.
M. C. Peters Mill Co., Omaha, Nebr. Stock and poultry food. No. 78,822; July 12; Gaz. vol. 156; p. 534.
M. & J. Schnaible Company, The, La Fayette, Ind. Soap. No. 80,325; Dec. 6; Gaz. vol. 161; p. 263.
MacMahon, Percy A., London, England. Toys and puzzles. No. 78,428; June 14; Gaz. vol. 155; p. 550.
MacMonnies & Von Elm, New York, N. Y. Canned sardines. No. 77,934; May 17; Gaz. vol. 154; p. 832.
MacMonnies & Von Elm, New York, N. Y Olive-oil. No. 77,935; May 17; Gaz. vol. 154; p. 832.
MacMonnies & Von Elm, New York, N. Y. Olive-oil. No. 78,013; May 24; Gaz. vol. 154; p. 1104.
Macbeth-Raeburn, Henry, London, England. Drawing, pastel, and painting paper. No. 79,350; Aug. 30; Gaz. vol. 157; p. 1240.
Macdiarmid Company, Detroit, Mich. Candy. Nos. 76,291–2; Jan. 4; Gaz. vol. 150; p. 261.
Macfadden, Bernarr, Battle Creek, Mich. Invalids' food. No. 76,692; Feb. 8; Gaz. vol. 151; p. 446.
Macgill, Ella V., Philadelphia, Pa. Salves and ointments No. 79,977; Oct. 25; Gaz. vol. 159; p. 987.
Mack, Hugh B., Joplin, Mo. Salve. No. 79,135; Aug. 9; Gaz. vol. 157; p. 482.
Macnair, Whitmel H., Tarboro, N. C. Remedy for diseases of poultry. No. 77,690; Apr. 26; Gaz. vol. 153; p. 1079.
Macquarrie, Josephine A., Chicago, Ill. Preparation for removing stains from fabrics. No. 79,136; Aug. 9; Gaz. vol. 157; p. 482.
Macy & Co., R. H., New York, N. Y. Certain clothing. No. 78,333; June 7; Gaz. vol. 155; p. 302.
Maddaloni, Donato, New York, N. Y. Olive-oil. No. 78,532; June 21; Gaz. vol. 155; p. 796.
Magee, Samuel A., Bowling Green, Mo. Washing compound. No. 76,762; Feb. 15; Gaz. vol. 151; p. 725.
Magid, Samuel M., Boston, Mass. Certain precious-metal articles. No. 80,071; Nov. 1; Gaz. vol. 160; p. 254.
Magnalium-Industrie Gesellschaft, m. b. H., Berlin, Germany. Aluminum, magnesium, and aluminum-magnesium alloys. No. 76,671; Feb. 8; Gaz. vol. 151; p. 446.
Magnes, Isaac D., New York, N. Y. Fresh California shrimps. No 79,068; Aug. 2; Gaz. vol. 157; p. 204.
Magnesite Building Material Company, Limited, Boise, Idaho. Plastic compositions. No. 80,320; Dec. 6; Gaz. vol. 161; p. 263.
Magnetic Cutlery Company, Philadelphia, Pa. Razors. No. 79,351; Aug. 30; Gaz. vol. 157; p. 1240.
Mahler, Daniel J., East Providence, R. I. Shaving-creams. No. 79,775; Oct. 4; Gaz. vol. 159; p. 238.
Maison Boulestin, Cognac, France. Brandy. No. 80,105; Nov. 8; Gaz. vol. 160; p. 489.
Majestic Bottling Co., San Francisco, Cal. Certain beverages. No. 76,626; Feb. 1; Gaz. vol. 151; p. 190.
Majestic Bottling Co., San Francisco, Cal. Potable waters and carbonated flavored tonic beverages. No. 76,720; Feb. 8; Gaz. vol. 151; p. 447.
Makepeace, Bertrand L., Boston, Mass. Paper, tracing-cloths, pens, pencils, and erasers. No. 77,026; Mar. 1; Gaz. vol. 152; p. 227.
Maldonado & Co., Inc., San Francisco, Cal. Wheat-flour. No. 80,321; Dec. 6; Gaz. vol. 161; p. 263.
Maloney Oil & Manufacturing Company, Scranton, Pa. Petroleum illuminating-oil. No. 79,843; Oct. 11; Gaz. vol. 159; p. 486.
Malt-Diastase Co., New York, N. Y. Malt extracts. No. 77,818; May 10; Gaz. vol. 154; p. 510.
Malt-Diastase Company, New York, N. Y. Malt extracts. No. 79,352; Aug. 30; Gaz. vol. 157; p. 1240.
Maltbie Chemical Company, The, Newark, N. J. Nerve tonic and stimulant. No. 80,371; Dec. 13; Gaz. vol. 161; p. 526.
Maltet Chemical Company, New York, N. Y. Powder used for the extermination of cockroaches and similar insects. No. 76,833; Feb. 15; Gaz. vol. 151; p. 727.
Mange Remedy Co., The, Little Rock, Ark. Mange remedy. No. 77,819; May 10; Gaz. vol. 154; p. 510.
Manhattan Eye Salve Company, Owensboro, Ky. Medicinal ointments. No. 76,368; Jan. 11; Gaz. vol. 150; p. 565.
Manley, Howard I., Webb City, Mo. Certain chemical preparation. No. 76,293; Jan. 4; Gaz. vol. 150; p. 261.
Mannheimer Bros., St. Paul, Minn. Cotton piece goods. No. 76,887; Feb. 22; Gaz. vol. 151; p. 1010.

Alphabetical list of registrants of trade-marks—Continued.

Manning, Minnie S., Chester, Vt. Cleaning and polishing preparations. No. 77,554; Apr. 19; Gaz. vol. 153; p. 818.
Manufacturers Charcoal Co., Camden, N. J., and Bradford, Pa. Charcoal. No. 77,324; Mar. 29; Gaz. vol. 152; p. 1220.
Manufacturing Company of America, Philadelphia, Pa. Icing and filling for cakes. No. 77,404; Apr. 5; Gaz. vol. 153; p. 268.
Margolis, Louis D., Boston, Mass. Coffee. No. 79,290; Aug. 23; Gaz. vol. 157; p. 996.
Marin & Goldberg, Jersey City, N. J. Sliced beef. No. 78,719; July 5; Gaz. vol. 156; p. 254.
Marino, Dominick A., Jersey City, N. J. Remedy for certain diseases. No. 80,189; Nov. 15; Gaz. vol. 160; p. 769.
Marjenhoff Company, Charleston, S. C. Biscuits, crackers, and candies. No. 76,834; Feb. 15; Gaz. vol. 151; p. 728.
Marjenhoff Company, The, Charleston, S. C. Biscuits. No. 80,137; Nov. 8; Gaz. vol. 160; p. 490.
Markt & Co., Ltd., New York, N. Y. Bit-braces. No. 80,233; Nov. 22; Gaz. vol. 160; p. 1034.
Markt & Hammacher Company, New York, N. Y. Cigars, cigarettes, and tobacco. Nos. 78,533–4; June 21; Gaz. vol. 155; p. 796.
Markt & Hammacher Company, New York, N. Y. Cigars, cigarettes, and tobacco. No. 80,433; Dec. 20; Gaz. vol. 161; p. 750.
Marlowe Manufacturing Company, New York, N. Y. Hair-nets. No. 80,072; Nov. 1; Gaz. vol. 160; p. 254.
Marmite Food Extract Co., Limited, London, England. Extract of yeast. No. 79,220; Aug. 16; Gaz. vol. 157; p. 750.
Marriott, Frederick, San Francisco, Cal. Monthly magazines. No. 79,221; Aug. 16; Gaz. vol. 157; p. 750.
Marsh, Ada, New York, N. Y. Cleaning-paste. No. 78,720; July 5; Gaz. vol. 156; p. 254.
Marshall Field & Company, Chicago, Ill. Hosiery. Nos. 77,252–7; Mar. 22; Gaz. vol. 152; p. 954.
Marshall Field & Company, Chicago, Ill. Hosiery. No. 79,481; Sept. 13; Gaz. vol. 158; p. 477.
Marshall Field & Company, Chicago, Ill. Hand embroidery. No. 80,177; Nov. 15; Gaz. vol. 160; p. 769.
Marshall Furnace Company, Marshall, Mich. Furnaces. No. 80,283; Nov. 29; Gaz. vol. 160; p. 1267.
Martin Dennis Company, The, Newark, N. J. Chrome-tanning materials. No. 78,070; May 31; Gaz. vol. 154; p. 1403.
Martin Dennis Company, The, Newark, N. J. Oleaginous compounds for curriers' and leather-dressers' use. No. 78,071; May 31; Gaz. vol. 154; p. 1403.
Martin Dennis Company, The, Newark, N. J. Fillers of a waxy nature. No. 78,694; July 5; Gaz. vol. 156; p. 253.
Martin, Hiram F., York, Pa. Cigars, cigarettes, tobacco. No. 80,136; Nov. 8; Gaz. vol. 160; p. 490.
Martin & Nurre Canning Co., Blair, Nebr. Canned corn. Nos. 76,693–4; Feb. 8; Gaz. vol. 151; p. 446.
Martin Sons and Company, Limited, Huddersfield, England. Worsted piece goods. No. 79,591; Sept. 20; Gaz. vol. 158; p. 698.
Martindale & Company, Limited, Ralph, Birmingham, England. Machetes. No. 76,344; Jan. 4; Gaz. vol. 150; p. 263.
Martinez & Bros., W. J., New Orleans, La. Leather boots and shoes. No. 78,113; May 31; Gaz. vol. 154; p. 1404.
Martinez & Bros., W. J., New Orleans, La. Leather boots and shoes. No. 79,436; Sept. 6; Gaz. vol. 158; p. 224.
Maryland Biscuit Co., Baltimore, Md. Cakes. No. 77,474; Apr. 12; Gaz. vol. 153; p. 542.
Maryland Biscuit Co., Baltimore, Md. Sugar wafers. No. 78,430; June 14; Gaz. vol. 155; p. 550.
Masland, John W., Philadelphia, Pa. Rugs and carpets. No. 79,920; Oct. 18; Gaz. vol. 159; p. 744.
Mason, Frederic S., New York, N. Y. Perfumes. No. 78,535; June 21; Gaz. vol. 155; p. 796.
Mason, Sarah, York, Pa. Metal-polish. No. 77,741; May 3; Gaz. vol. 154; p. 248.
Massasoit Mfg. Co., Fall River, Mass. Cotton waste. No. 76,547; Jan. 25; Gaz. vol. 150; p. 1038.
Mathewson, Edward C., New York, N. Y. Ham, olives, sausage, tea, and cheese. No. 77,936; May 17; Gaz. vol. 154; p. 832.
Mathewson, Edward C., New York, N. Y. Certain foods. No. 78,015; May 24; Gaz. vol. 154; p. 1104.
Mathewson, Edward C., New York, N. Y. Certain food. No. 78,721; July 5; Gaz. vol. 156; p. 254.
Mathy, Joseph, Washington, D. C. Baking-pans. No. 78,334; June 7; Gaz. vol. 155; p. 302.
Maude Odell Company, The, New York, N. Y. Soap. No. 80,289; Nov. 29; Gaz. vol. 160; p. 1267.
Maurer, William A., Council Bluffs, Iowa. Ceramic gold paint. No. 77,937; May 17; Gaz. vol. 154; p. 832.
Mavon, Girard A., Chicago, Ill. Soap and scouring and washing powders. No. 76,763; Feb. 15; Gaz. vol. 151; p. 725.
Max Glick Company, The, Cleveland, Ohio. Nut-bar. No. 79,335; Aug. 30; Gaz. vol. 157; p. 1239.
Max Morris Drug Company, Macon, Ga. Liniment. No. 76,721; Feb. 8; Gaz. vol. 151; p. 447.
Maxwell-McClure-Fitts Dry Goods Co., Kansas City, Mo. Stockings. No. 79,291; Aug. 23; Gaz. vol. 157; p. 996.
May, S. Elwood, Philadelphia, Pa. Blended tea. Nos. 79,503–4; Sept. 13; Gaz. vol. 158; p. 478.
Mayer Fertilizer & Junk Company (by change of name The Mayer Fertilizer Co.), St. Louis, Mo. Fertilizers. No. 80,322; Dec. 6; Gaz. vol. 161; p. 263.
Maynard, Leonard E., Montgomery, Ala. Non-alcoholic tonic beverages. No. 79,222; Aug. 16; Gaz. vol. 157; p. 750.
McBrayer Canning Co., The, McBrayer, Ky. Canned tomatoes. No. 78,335; June 7; Gaz. vol. 155; p. 302.
McCaskey Register Company, The, Alliance, Ohio. Manifolding-books. No. 80,138; Nov. 8; Gaz. vol. 160; p. 490.
McCleary, Wallin & Crouse, Amsterdam, N. Y. Rugs, mats, and carpets. No. 78,336; June 7; Gaz. vol. 155; p. 302.
McClure, Harry W., Ann Arbor, Mich. Hobby-horses, carts, and toys. No. 80,482; Dec. 27; Gaz. vol. 161; p. 1039.
McClure Newspaper Syndicate, The, New York, N. Y. Comic section of a newspaper. Nos. 78,256–7; May 31; Gaz. vol. 154; p. 1408.
McDonald, Charles H., St. John, New Brunswick, Canada. Tea. No. 77,092; Mar. 8; Gaz. vol. 152; p. 484.
McDonald & Kiley Company, The, Cincinnati, Ohio. Leather shoes. No. 80,140; Nov. 8; Gaz. vol. 160; p. 490.
McDonnell, Anthony F., Dunmore and Scranton, Pa. Glass bottles. No. 77,405; Apr. 5; Gaz. vol. 153; p. 268.
McGraw Publishing Co., New York, N. Y. Magazine. No. 77,662; Apr. 26; Gaz. vol. 153; p. 1078.
McIntire, Hervey H., South Bend, Ind. Preparation for toning photographic prints. No. 76,294; Jan. 4; Gaz. vol. 150; p. 261.
McKeown, Charles H., Cleveland, Ohio. Ointments. No. 80,141; Nov. 8; Gaz. vol. 160; p. 490.
McKesson & Robbins, New York, N. Y. Chamois-skins. No. 76,548; Jan. 25; Gaz. vol. 150; p. 1038.
McKesson & Robbins, New York, N. Y. Chamois-skins. No. 78,187; May 31; Gaz. vol. 154; p. 1406.
McKinley, William, Wilmington, Del. Furniture-polishes. No. 79,844; Oct. 11; Gaz. vol. 159; p. 486.
McKittrick & Co., E., New York, N. Y. White and colored cotton dress goods. No. 76,655; Feb. 8; Gaz. vol. 151; p. 445.
McKittrick & Co., E., New York, N. Y. Certain textiles. Nos. 78,114–15; May 31; Gaz. vol. 154; p. 1404.
McLeish, William, Appleton, Wis. Car movers and pushers. No. 77,477; Apr. 12; Gaz. vol. 153; p. 542.
McMurray, William, St. Paul, Minn. Coffees. No. 76,695; Feb. 8; Gaz. vol. 151; p. 446.
McNish & Co., Robert, Glasgow, Scotland. Whisky. No. 78,431; June 14; Gaz. vol. 155; p. 550.
McPherson, Frank G., Beaver Falls, Pa. Playing-cards. No. 80,073; Nov. 1; Gaz. vol. 160; p. 254.
Mead Johnson & Company, Jersey City, N. J. Ferment. Nos. 77,742–4; May 3; Gaz. vol. 154; p. 248.
Mead Pulp and Paper Co., Dayton, Ohio. Print-papers. No. 76,888; Feb. 22; Gaz. vol. 151; p. 1010.
Means & Thacher, Boston, Mass. Paints, putty, and dry colors. No. 77,938; May 17; Gaz. vol. 154; p. 832.
Medicinal Products Company, The, Denver, Colo. Antiseptic liquid preparation. No. 78,810; July 12; Gaz. vol. 156; p. 534.
Meehan, David C., Columbus, Ohio. Fire doors and shutters and frames therefor. No. 79,592; Sept. 20; Gaz. vol. 158; p. 698.
Meier Dental Manufacturing Company, The, St. Louis, Mo. Dental regulating appliances. No. 78,722; July 5; Gaz. vol. 156; p. 254.
Meier Dental Manufacturing Company, The, St. Louis, Mo. Dental regulating appliances. No. 79,437; Sept. 6; Gaz. vol. 158; p. 224.
Meinhard, Frederick, Peoria, Ill. Cold-cream. No. 80,323; Dec. 6; Gaz. vol. 161; p. 263.
Meinl, Julius, Vienna, Austria-Hungary. Compounds of cocoa and malt and chocolate and malt. No. 80,074; Nov. 1; Gaz. vol. 160; p. 254.
Meissner & Buch, Leipzig, Germany. Lithographic prints. No. 80,484; Dec. 27; Gaz. vol. 161; p. 1040.
Mendel & Co., Cincinnati, Ohio. Trunks, suit-cases, grips, and valises. No. 76,860; Feb. 22; Gaz. vol. 151; p. 1009.
Mendels Brothers, Baltimore, Md. Certain named clothing. No. 79,292; Aug. 23; Gaz. vol. 157; p. 996.
Mendez, Lucy J., Brooklyn, N. Y. Cigars. No. 79,776; Oct. 4; Gaz. vol. 159; p. 238.
Mepham & Co., Geo. S., East St. Louis, Ill. Dry mortar-colors. No. 76,401; Jan. 11; Gaz. vol. 150; p. 566.
Merchant & Evans Company, Philadelphia, Pa. Ventilators. No. 80,485; Dec. 27; Gaz. vol. 161; p. 1040.
Merchants Ice & Cold Storage Co., Louisville, Ky. Certain beverages. No. 77,423; Apr. 5; Gaz. vol. 153; p. 268.
Merck & Co., New York, N. Y. Coffee. No. 78,536; June 21; Gaz. vol. 155; p. 796.
Merck & Co., New York, N. Y. Coffee. No. 78,723; July 5; Gaz. vol. 156; p. 254.
Merck & Co., New York, N. Y. Coffee. No. 79,137; Aug. 9; Gaz. vol. 157; p. 482.
Merck & Co., New York, N. Y. Coffee. No. 79,438; Sept. 6; Gaz. vol. 158; p. 224.

Alphabetical list of registrants of trade-marks—Continued.

Merck & Co., New York, N. Y. Certain chemicals. No. 79,845; Oct. 11; Gaz. vol. 159; p. 486.
Merkle Wiley Broom Co., Paris, Ill. Brooms. Nos. 77,660–1; Apr. 26; Gaz. vol. 153; p. 1078.
Merrell-Soule Co., Syracuse, N. Y. Butter. No. 80,142; Nov. 8; Gaz. vol. 160; p. 490.
Merrimac Chemical Co., Boston, Mass. Arsenate of lead. No. 76,478; Jan. 18; Gaz. vol. 150; p. 822.
Merrimack Manufacturing Company, Lowell, Mass. Cotton flannel. No. 76,331; Jan. 4; Gaz. vol. 150; p. 262.
Merrimack Manufacturing Company, Lowell, Mass. Certain textiles. No. 76,889; Feb. 22; Gaz. vol. 151; p. 1010.
Mersman Bros. Brandts Company, The, Celina, Ohio. Dining and library tables. No. 79,354; Aug. 30; Gaz. vol. 157; p. 1240.
Mexican Amole Soap Co., Peoria, Ill. Medicines and toilet preparations. No. 78,016; May 24; Gaz. vol. 154; p. 1104.
Meyer & Co., John C., Lowell, Mass. Thread and yarn. No. 79,594; Sept. 20; Gaz. vol. 158; p. 698.
Meyer, Herbert P., New Orleans, La. Antiseptic refrigerant for external and internal use. No. 76,549; Jan. 25; Gaz. vol. 150; p. 1038.
Meyer, Martin & Danda, New York, N. Y. Embroidery-flosses. No. 80,486; Dec. 27; Gaz. vol. 161; p. 1040.
Meyers, Herman B., Chicago, Ill. Monthly magazine. No. 76,861; Feb. 22; Gaz. vol. 151; p. 1009.
Meyers Manufacturing Company, Watertown, N. Y. Suspensories, trusses, and bandages. No. 79,777; Oct. 4; Gaz. vol. 159; p. 238.
Meyrowitz Manufacturing Co., The, New York, N. Y. Eyeglasses and spectacles. No. 78,258; May 31; Gaz. vol. 154; p. 1408.
Meyrowitz Manufacturing Co., The, New York, N. Y. Mountings for eyeglasses and spectacles. Nos. 79,505–6; Sept. 13; Gaz. vol. 158; p. 478.
Mezcal Tequila Distillery Company, Inc., San Francisco, Cal. Medicinal tonic. No. 80,190; Nov. 15; Gaz. vol. 160; p. 769.
Mianus Mfg. Co., The, Coscob, Conn. Woolen cloth, linings, and blankets. No. 78,621; June 28; Gaz. vol. 155; p. 1038.
Michaels, Stern & Co., Rochester, N. Y. Certain clothing. No. 77,745; May 3; Gaz. vol. 154; p. 248.
Michau & Co., Th., Paris, France, and New York, N. Y. Mixture of silk and wool dress goods. No. 79,507; Sept. 13; Gaz. vol. 158; p. 478.
Michigan Bag & Paper Company, The, Jackson, Mich. Paper bags. Nos. 78,188–90; May 31; Gaz. vol. 154; pp. 1406–7.
Michigan Soap Works, Detroit, Mich. Laundry soap. No. 77,176; Mar. 15; Gaz. vol. 152; p. 728.
Middle Creek Coal Company, Prestonsburg, Ky. Coal. No. 80,191; Nov. 15; Gaz. vol. 160; p. 769.
Middletown Farms, Inc., Middletown, Del. Buttermilk. No. 80,434; Dec. 20; Gaz. vol. 161; p. 750.
Midland Manufacturing Company, Tarkio, Mo. Manure-spreaders and parts thereof. No. 76,452; Jan. 18; Gaz. vol. 150; p. 821.
Midland Publishing Co., St. Louis, Mo. Account-books. No. 78,116; May 31; Gaz. vol. 154; p. 1404.
Midland Vinegar Company, The, Birmingham, England. Pickles and digestive relish. No. 77,475; Apr. 12; Gaz. vol. 153; p. 542.
Migel & Company, M. C., New York, N. Y. Silk piece goods. No. 78,890; July 19; Gaz. vol. 156; p. 794.
Mignola, John, Jr., Alameda, Cal. Butchers' saws. No. 80,075; Nov. 1; Gaz. vol. 160; p. 254.
Milam Medicine Company, Inc., Danville, Va. Blood remedy and tonic. Nos. 79,683–4; Sept. 27; Gaz. vol. 158; p. 880.
Milbridge Packing Co., Millbridge, Me. Canned sardines. No. 76,922; Feb. 22; Gaz. vol. 151; p. 1011.
Miles, Will C., Huntington, Ind. Vehicle-shields. No. 79,070; Aug. 2; Gaz. vol. 157; p. 204.
Mill & Mine Supply Co., Seattle, Wash. Iron and steel chains. No. 78,259; May 31; Gaz. vol. 154; p. 1408.
Mill & Mine Supply Co., Seattle, Wash. Wire rope. No. 79,508; Sept. 13; Gaz. vol. 158; p. 478.
Miller, Benjamin, Chicago, Ill. Wood-polish. No. 79,921; Oct. 18; Gaz. vol. 159; p. 744.
Miller and Blake Chemical Co., Adrian, Mich. Local anesthetics. No. 78,117; May 31; Gaz. vol. 154; p. 1405.
Miller Bros. & Co., Baltimore, Md. Canned oysters. No. 78,017; May 24; Gaz. vol. 154; p. 1104.
Miller, Charles W., San Antonio, Tex. Remedy for rheumatism. No. 78,118; May 31; Gaz. vol. 154; p. 1405.
Miller, Edward P., Chicago, Ill. Remedy for hay-fever. No. 77,663; Apr. 26; Gaz. vol. 153; p. 1078.
Miller & Jennings, Ithaca, N. Y. Chairs. No. 77,043; Mar. 1; Gaz. vol. 152; p. 227.
Miller, John H., Locust Point, Md. Fireproof weather-proof wood substitute. No. 78,891; July 19; Gaz. vol. 156; p. 794.
Miller, John J., Newark, N. J. Chinaware. No. 78,260; May 31; Gaz. vol. 154; p. 1408.
Miller, Oliver D., Nevada, Iowa. Remedy for coughs and colds. No. 79,685; Sept. 27; Gaz. vol. 158; p. 880.
Miller & Sons Co., Philadelphia, Pa. Hosiery. No. 78,432; June 14; Gaz. vol. 155; p. 550.
Millirons' Bottling Works, Macon Ga. Carbonated beverage. No. 77,258; Mar. 22; Gaz. vol. 152; p. 954.
Mills, Demaris E., Canton, Ill. Protective and antiseptic suppository. No. 77,359; Mar. 29; Gaz. vol. 152; p. 1221.
Millstadt Brewery Company, Millstadt, Ill. Bottled beer. No. 77,820; May 10; Gaz. vol. 154; p. 510.
Millville Manufacturing Company, The, Philadelphia, Pa. Cotton piece goods. No. 76,572; Feb. 1; Gaz. vol. 151; p. 189.
Milton Bradley Company, Springfield, Mass. Game. Nos. 76,369–70; Jan. 11; Gaz. vol. 150; p. 565.
Miner, Read & Garrette, New Haven, Conn. Wheat-flour. No. 76,562; Jan. 25; Gaz. vol. 150; p. 1038.
Minneapolis Cereal Co. Inc., Minneapolis, Minn. Cereal breakfast food. No. 79,295; Aug. 23; Gaz. vol. 157; p. 996.
Minneapolis Knitting Works, Minneapolis, Minn. Knit union suits and infants' shirts and slips. No. 78,434; June 14; Gaz. vol. 155; p. 550.
Minnesota Mercantile Company, Stillwater, Minn. Tea, coffee, flavoring extracts, spices, and mince-meat. No. 76,765; Feb. 15; Gaz. vol. 151; p. 726.
Minnesota Mercantile Company, Stillwater, Minn. Tea, flavoring extracts, and spices. No. 79,294; Aug. 23; Gaz. vol. 157; p. 996.
Miro-Dena Company, Syracuse, N. Y. Perfume. No. 79,686; Sept. 27; Gaz. vol. 158; p. 880.
Misa, Buenaventura P., Jerez de la Frontera, Spain. Sherry-wine. No. 80,076; Nov. 1; Gaz. vol. 160; p. 254.
Missing Link Apple Co., Clayton, Ill. Plants and trees. No. 76,492; Jan. 18; Gaz. vol. 150; p. 823.
Missouri Lamp & Mfg. Co., St. Louis, Mo. Chemical hand fire-extinguishers. Nos. 78,537–8; June 21; Gaz. vol. 155; p. 796.
Missouri Lamp & Mfg. Co., St. Louis, Mo. Chemical hand fire-extinguishers. Nos. 78,622–4; June 28; Gaz. vol. 155; p. 1038.
Mitchell, Charles L., Philadelphia, Pa. Photographic developing material. No. 78,983; July 26; Gaz. vol. 156; p. 1062.
Mitchell & Company of Belfast Limited, Belfast, Ireland. Whisky. No. 80,372; Dec. 13; Gaz. vol. 161; p. 526.
Mitchells, Ashworth, Stansfield & Company, Limited, Waterfoot, near Manchester, England. Endless felts of wool, worsted, or hair. No. 77,664; Apr. 26; Gaz. vol. 153; p. 1078.
Mitts & Merrill, Saginaw, Mich. Key-seating machines. No. 76,696; Feb. 8; Gaz. vol. 151; p. 446.
Mlle. Wolfe Co., Philadelphia, Pa. Ruffles. No. 80,335; Dec. 6; Gaz. vol. 161; p. 264.
Model Heating Company, Philadelphia, Pa. Heating-furnaces and cooking stoves and ranges. No. 76,402; Jan. 11; Gaz. vol. 150; p. 566.
Model Milling & Elevator Company, The, Greeley, Colo. Wheat-flour. No. 78,191; May 31; Gaz. vol. 154; p. 1407.
Model Milling & Elevator Company, The, Greeley, Colo. Wheat-flour. No. 78,261; May 31; Gaz. vol. 154; p. 1409.
Modesto Canning Company, Modesto, Cal. Canned fruits. No. 77,665; Apr. 26; Gaz. vol. 153; p. 1078.
Moki, Shichiroemon, Higashi-Katsushikagun, Chiba, Japan. Shoyu or soy. No. 79,439; Sept. 6; Gaz. vol. 158; p. 224.
Moland's Sons, William, Philadelphia, Pa. Ham, bacon, dried beef, and lard. No. 77,821; May 10; Gaz. vol. 154; p. 510.
Moline Plow Co., Moline, Ill. Cultivators. No. 78,724; July 5; Gaz. vol. 156; p. 254.
Molt, Adolph, Newark, N. J. Measuring and scientific instruments and machines. No. 80,435; Dec. 20; Gaz. vol. 161; p. 750.
Monarch Manufacturing Company, Council Bluffs, Iowa. Lubricating oils and greases. No. 77,666; Apr. 26; Gaz. vol. 153; p. 1079.
Monarch Paste Co., Buffalo, N. Y. Adhesive pastes, mucilage, gums, &c. No. 79,846; Oct. 11; Gaz. vol. 159; p. 486.
Monarch Typewriter Company, The, Syracuse, N. Y. Writing and printing paper. No. 79,356; Aug. 30; Gaz. vol. 157; p. 1240.
Montebello & Co., Alfred de, Mareuil-sur-Ay, Marne, France. Champagne wine. Nos. 77,875–6; May 10; Gaz. vol. 154; p. 511.
Montebello & Co., Alfred de, Mareuil-sur-Ay, Marne, France. Champagne-wine. No. 78,436; June 14; Gaz. vol. 155; p. 550.
Monterey Packing Company, San Francisco and Monterey, Cal. Canned fish. No. 76,517; Jan. 25; Gaz. vol. 150; p. 1037.
Montgomery-Moore Mfg. Co., Nashville, Tenn. Harness, saddles, and horse-collars. No. 79,847; Oct. 11; Gaz. vol. 159; p. 486.
Montpelier Cup & Metal Works, Montpelier, Ind. Flour-milling machinery and parts thereof. No. 79,922; Oct. 18; Gaz. vol. 159; p. 744.
Mood, New York, N. Y. Corsets and ladies' outer clothing. No. 78,625; June 28; Gaz. vol. 155; p. 1038.
Moon, Lillian W., New London, Conn. Remedy for asthma. No. 78,192; May 31; Gaz. vol. 154; p. 1407.

Alphabetical list of registrants of trade-marks—Continued.

Moore Bros. Lightning Rod Co., Maryville, Mo. Lightning-rods. No. 78,725; July 5; Gaz. vol. 156; p. 254.
Moore & Calvi, New York, N. Y. Smoking and chewing tobacco. No. 76,941; Feb. 22; Gaz. vol. 151; p. 1011.
Moore & Calvi, New York, N. Y. Smoking and chewing tobacco. No. 79,138; Aug. 9; Gaz. vol. 157; p. 482.
Moore & Calvi, New York, N. Y. Smoking and chewing tobacco. No. 79,355; Aug. 30; Gaz. vol. 157; p. 1240.
Moore & Calvi, New York, N. Y. Smoking and chewing tobacco. No. 80,284; Nov. 29; Gaz. vol. 160; p. 1267.
Moore, Robert E., Philadelphia, Pa. Abdominal belts. No. 77,746; May 3; Gaz. vol. 154; p. 248.
Moore, William A., St. Paul, Minn. Tooth-powders. No. 78,626; June 28; Gaz. vol. 155; p. 1038.
Moore, William N., Redlands, Cal. Oranges, lemons, limes, and grape-fruit. No. 77,133; Mar. 15; Gaz. vol. 152; p. 727.
Moos & Co., New York, N. Y. Sardines. No. 77,476; Apr. 12; Gaz. vol. 153; p. 542.
Moos & Co., New York, N. Y. Smoked sardines. No. 77,555; Apr. 19; Gaz. vol. 153; p. 818.
Morgan, Albert C. F., London, England. Compound of wine and extract of meat. No. 78,893; July 19; Gaz. vol. 156; p. 794.
Morgan and Maxfield, Holyoke, Mass. Disk mandrels, porte-polishers, and polisher-holders. No. 78,262; May 31; Gaz. vol. 154; p. 1409.
Morgan & Wright, Detroit, Mich. Hoof-pads. Nos. 77,939–41; May 17; Gaz. vol. 154; p. 832.
Morgenstern & Company, New York, N. Y. Suppositories. No. 76,953; Mar. 1; Gaz. vol. 152; p. 225.
Moroney, James, deceased; J. E. Moroney, Philadelphia, Pa., executor. Compound gin. No. 79,224; Aug. 16; Gaz. vol. 157; p. 750.
Moroney, James E., executor. (See Moroney, James.)
Morris & Co., Baltimore, Md. Women's and children's blouses and jumpers. No. 78,726; July 5; Gaz. vol. 156; p. 254.
Morris, Mann & Reilly, Chicago, Ill. Goods made of human hair. No. 80,192; Nov. 15; Gaz. vol. 160; p. 769.
Morris Pharmacal Company of New York, The, New York, N. Y. Cathartic and laxative tablet or pill. No. 77,822; May 10; Gaz. vol. 154; p. 510.
Morris & Sons, George S., Baltimore, Md. Remedy for rheumatism, gout, and lumbago. No. 76,627; Feb. 1; Gaz. vol. 151; p. 190.
Morrissey, Frank T., Lowell, Mass. Ale. No. 76,628; Feb. 1; Gaz. vol. 151; p. 191.
Morse, Hollis H., Atlanta, Ga. Card game. No. 79,073; Aug. 2; Gaz. vol. 157; p. 204.
Morton Salt Company, Chicago, Ill. Salt. No. 79,848; Oct. 11; Gaz. vol. 159; p. 486.
Morton, Sharp & Beeler, Maynardville, Tenn. Hog and chicken cholera remedy. No. 76,817; Feb. 15; Gaz. vol. 151; p. 727.
Morton, Victorine C., New York, N. Y. Certain precious-metal articles. No. 80,234; Nov. 22; Gaz. vol. 160; p. 1034.
Morton, Victorine C., New York, N. Y. Gold pens. No. 80,285; Nov. 29; Gaz. vol. 160; p. 1267.
Morton, Warner G., Albany, N. Y. Anthracite coal. No. 77,780; May 3; Gaz. vol. 154; p. 249.
Moser Paper Company, Chicago, Ill. Blotting-paper. No. 77,093; Mar. 8; Gaz. vol. 152; p. 484.
Mosler Safe Company, The, New York, N. Y. Safes. No. 80,373; Dec. 13; Gaz. vol. 161; p. 526.
Mossant, Vallon & Argod, Bourg-de-Peage, France. Felt hats. No. 79,440; Sept. 6; Gaz. vol. 158; p. 224.
Mount, Charles J., Kansas City, Mo. Medicines. No. 79,074; Aug. 2; Gaz. vol. 157; p. 204.
Mount, Charles J., Kansas City, Mo. Medicines. No. 79,139; Aug. 9; Gaz. vol. 157; p. 482.
Mount Hope Finishing Co., North Dighton, Mass. Cotton piece goods. No. 77,667; Apr. 26; Gaz. vol. 153; p. 1079.
Mrs. Nettie Harrison Co., San Francisco, Cal. Medicines and toilet preparations. No. 76,974; Mar. 1; Gaz. vol. 152; p. 225.
Mu-Col Company, Buffalo, N. Y. Salts for elimination of uric acid. No. 77,177; Mar. 15; Gaz. vol. 152; p. 728.
Muderlak, Ambros, New York, N. Y. Seasoning for Welsh rabbits. No. 78,193; May 31; Gaz. vol. 154; p. 1407.
Muller, William P., New York, N. Y. Cigarettes. No. 77,942; May 17; Gaz. vol. 154; p. 832.
Munger Candy Company, The, Corning, N. Y. Chocolate cream drops. No. 79,849; Oct. 11; Gaz. vol. 159; p. 486.
Munn Company, Arthur H., Detroit, Mich. Remedy for rheumatism. No. 78,119; May 31; Gaz. vol. 154; p. 1405.
Muralo Company, New York, N. Y. Cold-water paints. No. 76,453; Jan. 18; Gaz. vol. 150; p. 821.
Muralo Company, The, New York, N. Y. Wall-coating composition. No. 77,027; Mar. 1; Gaz. vol. 152; p. 227.
Murawski, Frank X., New York, N. Y. Wood cleaning and polishing material. No. 79,851; Oct. 11; Gaz. vol. 159; p. 486.
Murias y Cia., C. O., Habana, Cuba. Cigars. No. 78,539; June 21; Gaz. vol. 155; p. 796.

Murphy Grant & Co., San Francisco, Cal., and New York, N. Y. Ribbons. No. 77,823; May 10; Gaz. vol. 154; p. 510.
Murphy, Samuel A., Columbia, S. C. Remedy for colic. No. 80,324; Dec. 6; Gaz. vol. 161; p. 263.
Murray Chemical Co., San Francisco, Cal. Lotion. No. 76,818; Feb. 15; Gaz. vol. 151; p. 727.
Musica & Son, A., New York, N. Y. Certain foods. No. 80,286; Nov. 29; Gaz. vol. 160; p. 1267.
Myers, Edwin, York, Pa. Cigars. No. 78,984; July 26; Gaz. vol. 156; p. 1062.
Myers, Edwin, York, Pa. Cigars. No. 79,923; Oct. 18; Gaz. vol. 159; p. 744.
N. Erlanger, Blumgart & Co., New York, N. Y. Cotton, velvet, and fustian piece goods. No. 79,660; Sept. 27; Gaz. vol. 158; p. 879.
N. E. Boomhower Co., New York, N. Y. Carpets, matting, rugs, and curtains. No. 80,403; Dec. 20; Gaz. vol. 161; p. 749.
N. K. Fairbank Company, The, Chicago, Ill. Soap. No. 80,350; Dec. 13; Gaz. vol. 161; p. 525.
N. S. Ackerly & Son Company, Northport, N. Y. Fresh blue-point oysters. No. 79,882; Oct. 18; Gaz. vol. 159; p. 743.
Naamlooze Vennootschap Lijm-en Gelatinefabriek "Delft," Delft, Netherlands. Glue and gelatin. No. 78,894; July 19; Gaz. vol. 156; p. 794.
Nakayama, Kosaburo, Osaka, Japan. Toilet bath-powder and tooth-powder. No. 78,895; July 19; Gaz. vol. 156; p. 794.
Nakies and Company, John, Ross, Iowa. Harness sweat-pads. No. 76,862; Feb. 22; Gaz. vol. 151; p. 1009.
Narrow Fabric Co., The, Wyomissing, near Reading, Pa. Shoe-laces. No. 77,943; May 17; Gaz. vol. 154; p. 832.
Nash-Smith Tea & Coffee Co., Denver, Colo. Baking-powder. No. 78,896; July 19; Gaz. vol. 156; p. 794.
Nath'l Fisher & Co., New York, N. Y. Boots, shoes, and slippers. No. 79,665; Sept. 27; Gaz. vol. 158; p. 879.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 77,424; Apr. 5; Gaz. vol. 153; p. 268.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 77,556; Apr. 19; Gaz. vol. 153; p. 818.
National Brake & Clutch Co., Boston, Mass. Railway brake-shoes. No. 78,985; July 26; Gaz. vol. 156; p. 1062.
National Candy Company, Jersey City, N. J., and St. Louis, Mo. Candy. No. 78,018; May 24; Gaz. vol. 154; p. 1104.
National Candy Company, Jersey City, N. J., and St. Louis, Mo. Licorice gum-drops. No. 78,812; July 12; Gaz. vol. 156; p. 534.
National Candy Company, The, St. Louis, Mo. Candy. No. 79,778; Oct. 4; Gaz. vol. 159; p. 238.
National Carbon Company, Cleveland, Ohio. Electrical brushes and contacts. No. 77,944; May 17; Gaz. vol. 154; p. 832.
National Carbon Company, Cleveland, Ohio. Dry-cell electric batteries. Nos. 78,120–1; May 31; Gaz. vol. 154; p. 1405.
National Cash Register Company, Dayton, Ohio. Cash, autographic, and credit registers and their parts. No. 79,225; Aug. 16; Gaz. vol. 157; p. 750.
National Chemical Company, Memphis, Tenn. Remedy for local application and inhalation. No. 79,687; Sept. 27; Gaz. vol. 158; p. 880.
National Cigarette Company, New York, N. Y. Cigarettes. No. 80,487; Dec. 27; Gaz. vol. 161; p. 1040.
National Cloak & Suit Company, New York, N. Y. Petticoats. No. 77,074; Mar. 8; Gaz. vol. 152; p. 483.
National Coal Company, The, Akron, Ohio. Bituminous coal. No. 78,194; May 31; Gaz. vol. 154; p. 1407.
National Coffee Co., Fort Worth, Tex. Coffee and tea. No. 76,527; Jan. 25; Gaz. vol. 150; p. 1037.
National Color Co., Detroit, Mich. Dyeing materials. No. 76,371; Jan. 11; Gaz. vol. 150; p. 565.
National Coning Machinery Company, Indianapolis, Ind. Paper bottles and cups. No. 78,195; May 31; Gaz. vol. 154; p. 1407.
National Cycle Manufacturing Company, Bay City, Mich. Bicycles and tricycles. No. 79,595; Sept. 20; Gaz. vol. 158; p. 698.
National Economic Gas Blast Co., New York, N. Y. Gas furnaces, stoves, burners, and blowpipes. No. 76,403; Jan. 11; Gaz. vol. 150; p. 566.
National Fertilizer Co., Nashville, Tenn. Fertilizers. No. 79,075; Aug. 2; Gaz. vol. 157; p. 204.
National Fertilizer Co., Nashville, Tenn. Fertilizers. No. 79,924; Oct. 18; Gaz. vol. 159; p. 744.
National Fire Proofing Company, Pittsburg, Pa. Structural blocks and tiles of terra-cotta and clay. No. 80,236; Nov. 22; Gaz. vol. 160; p. 1034.
National Grocer Company, Chicago, Ill. Certain food. No. 78,813; July 12; Gaz. vol. 156; p. 534.
National Hay, Grain and Storage Co., Macon, Ga. Stock food. No. 78,196; May 31; Gaz. vol. 154; p. 1407.
National Hay, Grain and Storage Co., Macon, Ga. Stock food. No. 78,263; May 31; Gaz. vol. 154; p. 1409.
National Invisible Print Co., St. Louis, Mo. Post, picture, &c., cards. No. 79,852; Oct. 11; Gaz. vol. 159; p. 486.

Alphabetical list of registrants of trade-marks—Continued.

National Manufacturers Company, New York, N. Y. Monthly magazine. No. 80,193; Nov. 15; Gaz. vol. 160; p. 769.
National Metal Edge Box Company, Philadelphia, Pa. Boxes, cartons, and blanks therefor. No. 78,339; June 7; Gaz. vol. 155; p. 302.
National Metal Edge Box Company, Philadelphia, Pa. Jute-board. No. 78,438; June 14; Gaz. vol. 155; p. 550.
National Milling Company, The, Toledo, Ohio. Wheat-flour. No. 78,264; May 31; Gaz. vol. 154; p. 1409.
National Packing Company, Portland, Me., and Chicago, Ill. Cotton-seed oil. No. 77,259; Mar. 22; Gaz. vol. 152; p. 955.
National Pencil Company, Atlanta, Ga. Pencils. No. 76,594; Feb. 1; Gaz. vol. 151; p. 190.
National Phonograph Company, West Orange, N. J. Phonographs. No. 77,134; Mar. 15; Gaz. vol. 152; p. 727.
National Phonograph Company, West Orange, N. J. Phonograph-horns. No. 77,478; Apr. 12; Gaz. vol. 153; p. 542.
National Powder Co., Spokane, Wash. Blasting-powder. No. 78,627; June 28; Gaz. vol. 155; p. 1038.
National Tube Company, Pittsburg, Pa. Metal pipes and tubes. No. 78,628; June 28; Gaz. vol. 155; p. 1038.
National Wafer Company, Boston, Mass. Confectionery, wafers, lozenges, and tablets. No. 78,340; June 7; Gaz. vol. 155; p. 302.
National Water Main Cleaning Co., Augusta, Me., and New York, N. Y. Hatch-boxes for metal pipes. No. 76,528; Jan. 25; Gaz. vol. 150; p. 1037.
National Water Main Cleaning Co., Augusta, Me., and New York, N. Y. Tools for cleaning pipes and cylinders. No. 77,945; May 17; Gaz. vol. 154; p. 832.
Nature's Creation Co., The, Columbus, Ohio. Remedy for diseases of the lungs. No. 78,197; May 31; Gaz. vol. 154; p. 1407.
Natural Food Co., The, Niagara Falls, N. Y. Cereal breakfast food. No. 76,923; Feb. 22; Gaz. vol. 151; p. 1011.
Nave-McCord Mercantile Co., St. Joseph, Mo. Certain foods. No. 76,629; Feb. 1; Gaz. vol. 151; p. 191.
Nave-McCord Mercantile Co., St. Joseph, Mo. Blended coffee, spices, and flavoring extracts. No. 79,357; Aug. 30; Gaz. vol. 157; p. 1240.
Navin, Michael H., Boston, Mass. Pills. No. 79,358; Aug. 30; Gaz. vol. 157; p. 1240.
Neenah Paper Co., Neenah, Wis. Writing and printing paper. No. 78,044; May 24; Gaz. vol. 154; p. 1105.
Nelson Brothers Fruit Company, Paonia, Colo. Fresh or green apples. No. 79,509; Sept. 13; Gaz. vol. 158; p. 478.
Nelson Valve Company, Wyndmoor, Pa. Valves. No. 79,510; Sept. 13; Gaz. vol. 158; p. 478.
Neostyle Envelope Company, New York, N. Y. Envelops, paper, and wrappers. No. 77,028; Mar. 1; Gaz. vol. 152; p. 227.
Neptune Packing Company, Boothbay Harbor, Me., and Boston, Mass. Canned sardines. Nos. 76,766–7; Feb. 15; Gaz. vol. 151; p. 726.
Nessle Packing Company, C. E., New York, N. Y. Sliced beef and bacon. No. 77,824; May 10; Gaz. vol. 154; p. 510.
Neubauer, Richard, Portland, Oreg. Ointment. No. 77,747; May 3; Gaz. vol. 154; p. 248.
Neuman & Schwiers Co., New York, N. Y. Smoked sardines in olive-oil. No. 76,942; Feb. 22; Gaz. vol. 151; p. 1011.
Neuss, Hesslein & Co., New York, N. Y. Woven cotton plaids. No. 77,946; May 17; Gaz. vol. 154; p. 832.
Neustadter Brothers, San Francisco, Cal. Sweater-coats and knitted shirts. No. 76,295; Jan. 4; Gaz. vol. 150; p. 261.
Neustadter Brothers, San Francisco, Cal. Certain clothing. No. 77,325; Mar. 29; Gaz. vol. 152; p. 1220.
Neustadter Brothers, San Francisco, Cal. Certain clothing. No. 77,479; Apr. 12; Gaz. vol. 153; p. 542.
Neustadter Brothers, San Francisco, Cal. Men's undershirts, drawers, socks, and knitted shirts. No. 77,668; Apr. 26; Gaz. vol. 153; p. 1079.
Neustadter Brothers, San Francisco, Cal. Hosiery. No. 78,814; July 12; Gaz. vol. 156; p. 534.
Neustadter Brothers, San Francisco, Cal. Hosiery. No. 79,143; Aug. 9; Gaz. vol. 157; p. 482.
New England Confectionery Co., Portland, Me., and Boston, Mass. Candies. No. 80,077; Nov. 1; Gaz. vol. 160; p. 254.
New England Enameling Co., The, Middletown, Conn. Enameled metal ware. No. 77,360; Mar. 29; Gaz. vol. 152; p. 1221.
New England Enameling Company, The, Middletown, Conn. Percolating coffee-pots. No. 77,748; May 3; Gaz. vol. 154; p. 248.
New Era Manufacturing Company, The, St. Louis, Mo. Certain clothing. No. 79,925; Oct. 18; Gaz. vol. 159; p. 744.
New Hygenic Refrigerator Co., Indianapolis, Ind., and New York, N. Y. Refrigerators. No. 77,425; Apr. 5; Gaz. vol. 153; p. 268.
New Jersey Cider Vinegar Works, Flemington, N. J. Apple-cider vinegar. No. 76,890; Feb. 22; Gaz. vol. 151; p. 1010.
New Jersey Foundry & Machine Co., Plainfield, N. J., and New York, N. Y. Weight-carrying trolleys. No. 79,997; Oct. 25; Gaz. vol. 159; p. 988.
New Orleans Coffee Company, Limited, New Orleans, La. Syrups, coffee, and a compound of coffee and chicory. No. 77,947; May 17; Gaz. vol. 154; p. 832.
New Orleans Manufacturers Agency Co. Ltd., New Orleans, La. Sardines. No. 78,341; June 7; Gaz. vol. 155; p. 302.
New Ulm Feed & Cereal Mill Company, New Ulm, Minn. Certain cereal foods. No. 76,563; Jan. 25; Gaz. vol. 150; p. 1038.
New York Belting & Packing Company, Limited, New York, N. Y., and Passaic, N. J. Hose. No. 76,891; Feb. 22; Gaz. vol. 151; p. 1010.
New York Belting and Packing Company, Limited, New York, N. Y. Belting and hose composed of rubber or rubber and fabric. No. 77,326; Mar. 29; Gaz. vol. 152; p. 1220.
New York Belting & Packing Company Ltd., New York, N. Y., and Passaic, N. J. Hose. No. 80,489; Dec. 27; Gaz. vol. 161; p. 1040.
New York Chemical Company, Dallas, Tex. Medicinal remedies. No. 79,144; Aug. 9; Gaz. vol. 157; p. 482.
New York Chemical Company, Dallas, Tex. Medicine. No. 79,296; Aug. 23; Gaz. vol. 157; p. 996.
New York Chemical Company, Dallas, Tex. Antidote for malaria, chills, fever, &c. No. 80,490; Dec. 27; Gaz. vol. 161; p. 1040.
New York Evening Post Company, New York, N. Y. Weekly magazine. No. 80,144; Nov. 8; Gaz. vol. 160; p. 490.
New York Herald Company, The, New York, N. Y. Printed pictures and illustrations. No. 78,265; May 31; Gaz. vol. 154; p. 1409.
New York Herald Company, The, New York, N. Y. Printed pictures and illustrations. No. 79,359; Aug. 30; Gaz. vol. 157; p. 1240.
New York and Kentucky Co., Rochester, N. Y. Cocktails. No. 76,417; Jan. 11; Gaz. vol. 150; p. 567.
New York Leather Belting Co., New York, N. Y. Belt-lap. No. 78,266; May 31; Gaz. vol. 154; p. 1409.
New York Liquid Dispensing Machine Company, New York, N. Y. Flavored non-alcoholic beverages and syrups for making the same. No. 77,119; Mar. 8; Gaz. vol. 152; p. 485.
New York Liquid Dispensing Machine Company, New York, N. Y. Flavored-non-alcoholic beverages and syrups for making the same. No. 77,426; Apr. 5; Gaz. vol. 153; p. 268.
New York Mackintosh Company, The, New York, N. Y. Waterproof cloaks, coats, and capes. No. 79,926; Oct. 18; Gaz. vol. 159; p. 744.
New York Mills, The, New York Mills, N. Y. Sheetings in the piece and sheets, pillow-cases, and bolster-cases made therefrom. No. 76,835; Feb. 15; Gaz. vol. 151; p. 728.
New York Mills, The, New York Mills, N. Y. Certain textiles. No. 77,825; May 10; Gaz. vol. 154; p. 510.
New York Pharmacal Association, Yonkers, N. Y. Medicine. No. 78,986; July 26; Gaz. vol. 156; p. 1062.
New York Specialty Co., New York, N. Y. Bottle-stoppers. No. 78,727; July 5; Gaz. vol. 156; p. 254.
New York Stencil Works, New York, N. Y. Engraved steel letter, number, and character stamps. No. 76,874; Feb. 22; Gaz. vol. 151; p. 1009.
New York Stencil Works, New York, N. Y. Engraved steel letter, number, and character stamps. No. 77,005; Mar. 1; Gaz. vol. 152; p. 226.
New York Wire Cloth Company, New York, N. Y., and York, Pa. Wire screen-cloth. No. 80,145; Nov. 8; Gaz. vol. 160; p. 490.
Newbery, Thomas J., Jackson, Ala. Remedy for cutaneous eruptions. No. 78,815; July 12; Gaz. vol. 156; p. 534.
Newburger, Eli N., Cleveland, Ohio. Ready-mixed paints. No. 79,853; Oct. 11; Gaz. vol. 159; p. 486.
Newhall Chain Forge & Iron Co., New York, N. Y. Cross-chains and hooks for antiskidding devices. No. 80,143; Nov. 8; Gaz. vol. 160; p. 490.
Newman, Abraham, New York, N. Y. Leather shoes and slippers. No. 78,122; May 31; Gaz. vol. 154; p. 1405.
Newson, Jasper W., London, England. Certain foods. No. 77,327; Mar. 29; Gaz. vol. 152; p. 1220.
Nice, Eugene E., Philadelphia, Pa. Paints, varnishes, fillers, colors, &c. No. 76,768; Feb. 15; Gaz. vol. 151; p. 726.
Nice, Eugene E., Philadelphia, Pa. Paints, fillers, varnishes, and stains. No. 78,728; July 5; Gaz. vol. 156; p. 254.
Nichols, F. D., Hamilton, Mont. Fresh fruits and vegetables. No. 79,226; Aug. 16; Gaz. vol. 157; p. 750.
Nicholson, George J. L., New York, N. Y. Electric water-heaters, cooking-ovens, and radiators. No. 79,145; Aug. 9; Gaz. vol. 157; p. 482.
Nicholson, John C., Stratford, England. Liquid paints and varnishes. No. 79,511; Sept. 13; Gaz. vol. 158; p. 478.
Nippon Shoyu Jozo Kabushiki Kaisha, Tokyo, Japan. Japanese soy and sauce. Nos. 77,557–8; Apr. 19; Gaz. vol. 153; p. 818.

Alphabetical list of registrants of trade-marks—Continued.

Nitrate Agencies Co., New York, N. Y. Fertilizers. No. 77,877; May 10; Gaz. vol. 154; p. 511.
No Name Hat M'f'g Co., Orange, N. J. Hats. No. 79,927; Oct. 18; Gaz. vol. 159; p. 744.
Noack & Sons, H. M., Arlington, Minn. Dressed poultry and eggs. No. 79,146; Aug. 9; Gaz. vol. 157; p. 482.
Norris, Isabel, New York, N. Y. Toilet creams, lotions, and pastes. No. 80,146; Nov. 8; Gaz. vol. 160; p. 490.
North Bro's M'f'g Co., Philadelphia, Pa. Ice-cream freezers. No. 78,987; July 26; Gaz. vol. 156; p. 1062.
North Bro's M'f'g Co., Philadelphia, Pa. Certain tools. No. 79,076; Aug. 2; Gaz. vol. 157; p. 204.
North Bros. and Strauss, Baltimore, Md. Underwear. No. 76,454; Jan. 18; Gaz. vol. 150; p. 822.
North & Judd Manufacturing Company, New Britain, Conn. Harness hardware. No. 77,878; May 10; Gaz. vol. 154; p. 511.
North & Judd Manufacturing Company, New Britain, Conn. Certain horse equipments. No. 79,441; Sept. 6; Gaz. vol. 158; p. 224.
North Pacific Trading & Packing Co., San Francisco, Cal. Canned salmon. No. 77,948; May 17; Gaz. vol. 154; p. 832.
Northern Bag & Plate Co., The, Carthage, N. Y. Paper bags. No. 79,512; Sept. 13; Gaz. vol. 158; p. 478.
Northern Shoe Co., Duluth, Minn. Leather boots and shoes. No. 76,793; Feb. 15; Gaz. vol. 151; p. 726.
Northern Shoe Co., Duluth, Minn. Leather boots and shoes. No. 77,749; May 3; Gaz. vol. 154; p. 248.
Northern Shoe Co., Duluth, Minn. Rubber boots and shoes. No. 78,342; June 7; Gaz. vol. 155; p. 302.
Northwestern Chemical Co., The, Marietta, Ohio. Powder for stopping leaks in cooling systems. No. 77,826; May 10; Gaz. vol. 154; p. 510.
Northwestern Chemical Co., The, Marietta, Ohio. Chemical combination for preventing freezing. No. 80,436; Dec. 20; Gaz. vol. 161; p. 750.
Northwestern Elevator & Mill Co., The, Toledo, Mount Vernon, and Loudonville, Ohio. Wheat-flour. No. 78,199; May 31; Gaz. vol. 154; p. 1407.
Norton & Curd Coffee Co., Louisville, Ky. Blended coffee. No. 76,595; Feb. 1; Gaz. vol. 151; p. 190.
Norton & Curd Coffee Co., Louisville, Ky. Blended coffee, tea, molasses, and spices. No. 76,596; Feb. 1; Gaz. vol. 151; p. 190.
Norton & Curd Coffee Co., Louisville, Ky. Coffee and tea. No. 78,816; July 12; Gaz. vol. 156; p. 534.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Fishing-tackle. No. 76,455; Jan. 18; Gaz. vol. 150; p. 822.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Horse-brushes. No. 77,260; Mar. 22; Gaz. vol. 152; p. 955.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Currycombs, whips, and horse-collars. No. 77,261; Mar. 22; Gaz. vol. 152; p. 955.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Locks and bolts. No. 77,750; May 3; Gaz. vol. 154; p. 248.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Squares and wing-dividers. No. 77,751; May 3; Gaz. vol. 154; p. 248.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Certain tools. No. 77,752; May 3; Gaz. vol. 154; p. 248.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Certain sporting goods. No. 77,949; May 17; Gaz. vol. 154; p. 832.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Razors, hatchets, and shears. No. 78,019; May 24; Gaz. vol. 154; p. 1104.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Certain horse equipments and supplies. No. 78,200; May 31; Gaz. vol. 154; p. 1407.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Refrigerators. No. 78,201; May 31; Gaz. vol. 154; p. 1407.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Certain horse equipments and supplies. No. 78,202; May 31; Gaz. vol. 154; p. 1407.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Enameled sheet-metal ware. No. 78,267; May 31; Gaz. vol. 154; p. 1409.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Boys' wagons and go-carts. No. 78,268; May 31; Gaz. vol. 154; p. 1409.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Measuring-tapes and scale-beams. No. 78,269; May 31; Gaz. vol. 154; p. 1409.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Inner tubes for tires, hose, and fruit-jar rubbers. No. 78,270; May 31; Gaz. vol. 154; p. 1409.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Files. No. 78,271; May 31; Gaz. vol. 154; p. 1409.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain equipments. No. 78,343; June 7; Gaz. vol. 155; p. 302.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain laundry appliances. No. 78,344; June 7; Gaz. vol. 155; p. 302.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Fruit-jar rubbers. No. 78,437; June 14; Gaz. vol. 155; p. 550.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Seine-twine. No. 78,540; June 21; Gaz. vol. 155; p. 796.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain tools and tool-handles. No. 78,629; June 28; Gaz. vol. 155; p. 1038.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Sash-cord. No. 78,729; July 5; Gaz. vol. 156; p. 254.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Glass lamp-chimneys and lantern-globes. No. 78,730; July 5; Gaz. vol. 156; p. 254.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain receptacles. No. 78,731; July 5; Gaz. vol. 156; p. 254.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Barrel-churns and grass-catchers. No. 79,227 · Aug. 16; Gaz. vol. 157; p. 750.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Talcum powder and toilet water. No. 79,360; Aug. 30; Gaz. vol. 157; p. 1240.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain tools. No. 79,631; Sept. 20; Gaz. vol. 158; p. 699.
Norvell - Shapleigh Hardware Company, St. Louis, Mo. Lanterns. No. 79,779; Oct. 4; Gaz. vol. 159; p 238.
Norway Medicine Company, Norway, Me. Remedy for certain diseases. No. 76,819; Feb. 15; Gaz. vol. 151; p. 727.
Nourrilean Remedy Company, Chicago, Ill. Remedy for diseases of the bowels and stomach. No. 76,550; Jan. 25; Gaz. vol. 150; p. 1038.
Novelty Candy & Chocolate Co. (See Greek American Confectionery Co., assignor.)
Novelty Sales Company, New York, N. Y. Razors. No. 77,669; Apr. 26; Gaz. vol. 153; p. 1079.
Nussbaum-Goldsmith Co., New York, N. Y. Dress-skirts. No. 79,361; Aug. 30; Gaz. vol. 157; p. 1240.
O. K. Broom Works, The, New York, N. Y. Brooms No. 79,854; Oct. 11; Gaz. vol. 159; p. 486.
O'Beirne & Co., Edward J., Elgin, Ill. Electric-light reflectors. No. 79,148; Aug. 9; Gaz. vol. 157; p. 482.
O'Brian & Company, A. W., Hutchinson, Kans. Medicinal oil. No. 80,288; Nov. 29; Gaz. vol. 160; p. 1267.
O'Hegan, Michael, Butte, Mont. Hair-restorer. No. 76,289; Jan. 4; Gaz. vol. 150; p. 261.
O'Neil & Weill, Toledo, Ohio. Whiskies. No. 80.290; Nov. 29; Gaz. vol. 160; p. 1268.
Oakland Chemical Company, The, New York, N. Y. Antiseptic and disinfectant. No. 79,362; Aug. 30; Gaz. vol. 157; p. 1240.
Oakley Chemical Co., New York, N. Y. Chemical cleansing compound. No. 80,287; Nov. 29; Gaz. vol. 160; p. 1267.
Oakley, Clifford H., Trenton, N. J. Rubber soles and heels. No. 79,596; Sept. 20; Gaz. vol. 158; p. 698.
Oakley, Clifford H., Trenton, N. J. Rubber quoits and croquet-balls. No. 79,597; Sept. 20; Gaz. vol. 158; p. 698.
Ochs, William J., Jersey City, N. J. Metal-polishing material. No. 77,262; Mar. 22; Gaz. vol. 152; p. 955.
Ohio Brass Company, The, Mansfield, Ohio. Trolley-clamps and suspension devices. No. 77,879; May 10; Gaz. vol. 154; p. 511.
Ohio Garment Company, The, Springfield, Ohio. Shirts, overalls, jackets, and jumpers. No. 79,228; Aug. 16; Gaz. vol. 157; p. 750.
Ohio Grocery and Baking Company, Columbus, Ohio. Butter and eggs. No. 76,529; Jan. 25; Gaz. vol. 150; p. 1037.
Ohio & Pittsburg Milk Company, Pittsburg, Pa. Butter. No. 77,406; Apr. 5; Gaz. vol. 153; p. 268.
Ohio Truss Co., Cincinnati, Ohio. Abdominal supporters, bandages, and suspensories. No. 80,237; Nov. 22; Gaz. vol. 160; p. 1034.
Ohio & Western Lime Co., The, Marion, Ohio. Lime. No. 79,928; Oct. 18; Gaz. vol. 159; p. 744.
Old Fort Knitting Mills, Fort Wayne, Ind. Hosiery. No. 76,672; Feb. 8; Gaz. vol. 151; p. 446.
Oliver-Finnie Co., Memphis, Tenn. Compound of coffee and chicory. No. 77,135; Mar. 15; Gaz. vol. 152; p. 727.
Oliver-Finnie Co., Memphis, Tenn. Coffee. No. 77,670; Apr. 26; Gaz. vol. 153; p. 1079.
Oliver-Finnie Co., Memphis, Tenn. Baking-powder. No. 77,753; May 3; Gaz. vol. 154; p. 248.
Olson, Martin C., Chicago, Ill. Antiseptic tartar-remover in the form of a pencil. No. 76,372; Jan. 11; Gaz. vol. 150; p. 565.
Oneida Community, Limited, Oneida, N. Y. Animal-traps. No. 76,332; Jan. 4; Gaz. vol. 150; p. 263.
Oneida Community Limited, Oneida, N. Y. Silver-plated flat ware, hollow ware, and tableware. No. 76,518; Jan. 25; Gaz. vol. 150; p. 1037.
Oneida Community Limited, Oneida, N. Y. Animal-traps. No. 79,513; Sept. 13; Gaz. vol. 158; p. 478.
Oneida Hosiery Company, Philadelphia, Pa. Hosiery. No. 79,780; Oct. 4; Gaz. vol. 159; p. 238.
Ontario - Cucamonga Fruit Exchange, Upland, Cal. Oranges, lemons, and grape-fruit. Nos. 76,597–8; Feb. 1; Gaz. vol. 151; p. 190.
Ontario-Cucamonga Fruit Exchange, Upland, Cal. Citrus fruits. No. 76,836; Feb. 15; Gaz. vol. 151; p. 728.

Alphabetical list of registrants of trade-marks—Continued.

Ontario-Cucamonga Fruit Exchange, Upland, Cal. Citrus fruits. No. 77,328; Mar. 29; Gaz. vol. 152; p. 1220.
Oostburg Evaporated Milk Co., Oostburg, Wis. Evaporated milk. No. 76,697; Feb. 8; Gaz. vol. 151; p. 446.
Oppenheim, Rose, Philadelphia, Pa. Men's, women's, and children's leather shoes. No. 76,820; Feb. 15; Gaz. vol. 151; p. 727.
Oppenheimer & Co., A., London, England. Tobacco-pipes. No. 77,480; Apr. 12; Gaz. vol. 153; p. 542.
Oppenheimer & Co., S., New York, N. Y., and Chicago, Ill. Sausage-casings. No. 77,880; May 10; Gaz. vol. 154; p. 511.
Oppenheimer's Sons, Louis, Philadelphia, Pa. Suspenders. No. 78,897; July 19; Gaz. vol. 156; p. 794.
Oriental Products Company, New York, N. Y. Cigars. No. 77,263; Mar. 22; Gaz. vol. 152; p. 955.
Orme Rice Packing Company, New Orleans, La. Rice. No. 80,194; Nov. 15; Gaz. vol. 160; p. 769.
Ornamental Marble & Tile Company, Fond du Lac, Wis. Certain construction materials. No. 78,732; July 5; Gaz. vol. 156; p. 254.
Orthop Chemical Company, New York, N. Y. Insect-exterminating preparation. No. 78,733; July 5; Gaz. vol. 156; p. 254.
Osgood, Harry Y. B., Chicago, Ill. Compounds for preventing and removing boiler incrustations. No. 79,149; Aug. 9; Gaz. vol. 157; p. 482.
Oshkosh Brewing Company, The, Oshkosh, Wis. Beer. No. 79,442; Sept. 6; Gaz. vol. 158; p. 224.
Oskamp Nolting Company, The, Cincinnati, Ohio. Watch-movements Nos. 78,898–9; July 19; Gaz. vol. 156; p. 794.
Oster Manufacturing Company, The, Cleveland, Ohio. Die-stocks. No. 77,559; Apr. 19; Gaz. vol. 153; p. 818.
Oswald Publishing Company, New York, N. Y. Monthly periodical. No. 78,439; June 14; Gaz. vol. 155; p. 550.
Ottenheimer & Co., Chicago, Ill. Handkerchiefs. No. 77,560; Apr. 19; Gaz. vol. 153; p. 818.
Ottenheimer & Co., Chicago, Ill. Handkerchiefs. No. 78,123; May 31; Gaz. vol. 154; p. 1405.
Oval Wood Dish Co., The, Delta, Ohio. Clothes-pins. No. 77,950; May 17; Gaz. vol. 154; p. 832.
Overstreet Crate Co., The, Lockhart, Fla. Crates. No. 78,203; May 31; Gaz. vol. 154; p. 1407.
Owens River Poultry Company, Bigpine, Cal. Poultry foods, eggs, and dressed poultry. No. 77,136; Mar. 15; Gaz. vol. 152; p. 727.
Oxford Linen Mills, North Brookfield, Mass. Towels. Nos. 76,456–7; Jan. 18; Gaz. vol. 150; p. 822.
Oyster Planters and Growers Association of Cotuit, Mass., The, Barnstable, Mass. Fresh and canned oysters. No. 77,951; May 17; Gaz. vol 154; p. 832.
Ozlek, Morris, Philadelphia, Pa. Brooms, dust-brushes, and dusters. No. 77,952; May 17; Gaz. vol. 154; p. 832.
P. Ballantine & Sons, Newark, N. J. Ale, beer, porter, stout, &c. No. 79,391; Sept. 6; Gaz. vol. 158; p. 223.
P. Ballantine & Sons, Newark, N. J. Ale, beer, porter, stout, &c. No. 79,462; Sept. 13; Gaz. vol. 158; p. 477.
P. J. Harney Shoe Company, Lynn, Mass. Cloth boots and shoes. No. 77,561; Apr. 19; Gaz. vol. 153; p. 818.
P. S. Hessler Mercantile Company, The, Denver, Colo. Canned fruit, vegetables, fish, and oysters. No. 79,834; Oct. 11; Gaz. vol. 159; p. 485.
Pabst Brewing Company, Milwaukee, Wis. Preparation containing malt and hops. No. 79,929; Oct. 18; Gaz. vol. 159; p. 744.
Pacific American Fisheries, Chicago, Ill. Canned salmon. Nos. 78,988–99; July 26; Gaz. vol. 156; pp. 1062–3.
Pacific Coast Syrup Co., San Francisco, Cal. Refiners and corn syrup. No. 76,530; Jan. 25; Gaz. vol. 150; p. 1037.
Pacific Novelty Company, New York, N. Y. Celluloid hair-pins and combs. No. 78,440; June 14; Gaz. vol. 155; p. 550.
Pacific Plating Polish Co., San Francisco, Cal. Metal-polishes. No. 80,491; Dec. 27; Gaz. vol. 161; p. 1040.
Pacific Steel Furniture Mfg. Co., Seattle, Wash. Beds, couches, davenports, and ship-bunks. No. 77,691; Apr. 26; Gaz. vol. 153; p. 1079.
Padden Gas and Electric Co., New Hampton, Iowa. Hydrocarbon generators and lamps and parts thereof. No. 77,264; Mar. 22; Gaz. vol. 152; p. 955.
Padgett, James T., New York, N. Y. Preparation to deodorize and lessen excessive perspiration. No. 78,817; July 12; Gaz. vol. 156; p. 534.
Page Woven Wire Fence Co., Monessen, Pa. Spring-wire. Nos. 78,345–7; June 7; Gaz. vol. 155; p. 302.
Palazzolo, Joseph, New York, N. Y. Perfumery and hair-tonic. No. 76,479; Jan. 18; Gaz. vol. 150; p. 822.
Palisade Manufacturing Co., The, Yonkers, N. Y. Medicinal liquid. No. 79,000; July 26; Gaz. vol. 156; p. 1063.
Palisade Manufacturing Co., The, Yonkers, N. Y. Antiseptic and germicidal medicine. No. 79,001; July 26; Gaz. vol. 156; p. 1063.
Palmer, Henry N., New York, N. Y. Certain clothing. No. 77,827; May 10; Gaz. vol. 154; p. 510.
Panknin's Imperial Baking Powder Company, Charleston, S. C. Baking-powder. No. 76,296; Jan. 4; Gaz. vol. 150; p. 261.
Pantograph Corporation, Yonkers, N. Y. Moving-picture films. No. 78,441; June 14; Gaz. vol. 155; p. 550.
Pappas Tobacco Manufacturing Company, Buffalo, N. Y. Cigarettes. No. 77,562; Apr. 19; Gaz. vol. 153; p. 818.
Paradis, Erique, Rice Lake, Wis. Cigars. No. 79,363; Aug. 30; Gaz. vol. 157; p. 1240.
Paraffine Paint Co., San Francisco, Cal. Liquid paints, varnishes, and paint compounds. No. 76,564; Jan. 25; Gaz. vol. 150; p. 1038.
Paraffine Paint Company, San Francisco, Cal. Building-paper and composite roofing. No. 79,002; July 26; Gaz. vol. 156; p. 1063.
Parascouly & Co., A. P., New York, N. Y. Cigarettes. No. 77,481; Apr. 12; Gaz. vol. 153; p. 542.
Park & Pollard Company, The, Boston, Mass. Brooders. No. 78,124; May 31; Gaz. vol. 154; p. 1405.
Park & Tilford, New York, N. Y. Certain alcoholic beverages. No. 76,493; Jan. 18; Gaz. vol. 150; p. 823.
Park & Tilford, New York, N. Y. Certain foods. No. 76,794; Feb. 15; Gaz. vol. 151; p. 726.
Park & Tilford, New York, N. Y. Cigars. No. 76,837; Feb. 15; Gaz. vol. 151; p. 728.
Park & Tilford, New York, N. Y. Teas. No. 78,020; May 24; Gaz. vol. 154; p. 1104.
Parke, Davis & Co., Detroit, Mich. Cardio-vascular stimulants and diuretics. No. 76,722; Feb. 8; Gaz. vol. 151; p. 447.
Parker, Bedell, New York, N. Y. Cotton, woolen, linen, and silk piece goods. No. 80,374; Dec. 13; Gaz. vol. 161; p. 526.
Parker-Browne Company, Fort Worth, Tex. Ginger-ale and syrup therefor. No. 77,953; May 17; Gaz. vol. 154; p. 832.
Parker Pen Company, The, Janesville, Wis. Fountain-pens. No. 79,781; Oct. 4; Gaz. vol. 159; p. 238.
Parkes Machine Company, Brooklyn, N. Y. Certain textiles. No. 79,598; Sept. 20; Gaz. vol. 158; p. 698.
Parlin & Orendorff Co., Canton, Ill. Certain agricultural implements and machines. No. 76,343; Jan. 4; Gaz. vol. 150; p. 263.
Parlin & Orendorff Co., Canton, Ill. Plows. No. 79,443; Sept. 6; Gaz. vol. 158; p. 224.
Parrott & Co., San Francisco, Cal. Canned crab-meat. No. 79,930; Oct. 18; Gaz. vol. 159; p. 744.
Parsons Paper Co., Holyoke, Mass. Writing and printing paper No. 78,045; May 24; Gaz. vol. 154; p. 1105.
Partin, Robert N., Petersburg, Va. Remedies for venereal diseases. No. 78,125; May 31; Gaz. vol. 154; p. 1405.
Pasadena Orange Growers Association, Pasadena, Cal. Oranges and grape-fruit. Nos. 77,563–4; Apr. 19; Gaz. vol. 153; p. 818.
Pasquier, Alphonse L., New York, N. Y. Remedy for rheumatisms of all kinds and eliminator of uric acid. No. 76,551; Jan. 25; Gaz. vol. 150; p. 1038.
Pass & Seymour, Inc., Solvay, N. Y. Electric-lamp sockets and receptacles. No. 77,029; Mar. 1; Gaz. vol. 152; p. 227.
Pasteur Vaccine Company, The. (See Deperdussin, H., assignor.)
Pasteur Vaccine Company, The. (See Deperdussin, Hippolyte J. C., assignor.)
Pasteur Vaccine Company Limited, The, London, England. Vermin-destroying virus. No. 78,442; June 14; Gaz. vol. 155; p. 550.
Pasteur Vaccine Company Limited, London, England. Vermin-destroying preparations. No. 79,003; July 26; Gaz. vol. 156; p. 1063.
Patchogue Manufacturing Company, Patchogue and New York, N. Y. Certain textiles and draperies. No. 77,063; Mar. 8; Gaz. vol. 152; p. 483.
Patent Axle Box and Foundry Company Limited, Wednesfield, near Wolverhampton, England. Axle-boxes and fittings therefor. No. 80,375; Dec. 13; Gaz. vol. 161; p. 526.
Paterson Overall Company, The, Paterson, N. J. Overalls, trousers, and jumpers. No. 79,364; Aug. 30; Gaz. vol. 157; p. 1240.
Patterson, James W., New York, N. Y. Chocolate-coated coffee-beans. No. 79,151; Aug. 9; Gaz. vol. 157; p. 482.
Patterson, John C., Pittsburg, Pa. Certain detergents. No. 79,878; Oct. 11; Gaz. vol. 159; p. 487.
Pattison, Edwin, Bloomington, Ill. Butter. No. 77,137; Mar. 15; Gaz. vol. 152; p. 727.
Paul Brothers Medicine Co., Alton, Ill. Remedy for certain diseases. No. 76,924; Feb. 22; Gaz. vol. 151; p. 1011.
Paul F. Beich Company, Bloomington, Ill. Candy. No. 79,547; Sept. 20; Gaz. vol. 158; p. 697.
Paul Manufacturing Company, The, Fort Wayne, Ind. Pulleys. No. 78,204; May 31; Gaz. vol. 154; p. 1407.
Peach, Harry H., Leicester, England. Cane and wicker-work furniture. No. 77,482; Apr. 12; Gaz. vol. 153; p. 542.
Pearl Clay Products Company, Bradford, Pa. Bricks. No. 80,079; Nov. 1; Gaz. vol. 160; p. 254.
Peck, Stow & Wilcox Co., Southington, Conn., and New York, N. Y. Certain tools. No. 76,418; Jan. 11; Gaz. vol. 150; p. 567.
Peck, Stow & Wilcox Co., The, Southington, Conn. Bit-braces, chucks, and chuck-jaws. No. 80,437; Dec. 20; Gaz. vol. 161; p. 750.

Alphabetical list of registrants of trade-marks—Continued.

Peerless Carbon & Ribbon Manufacturing Company Ltd., Toronto, Canada, and Buffalo, N. Y. Carbon-paper and type-writer ribbons. No. 78,900; July 19; Gaz. vol. 156; p. 794.

Peerless Rubber Manufacturing Company, New York, N. Y. Rubber hose. No. 76,943; Feb. 22; Gaz. vol. 151; p. 1011.

Peerless Spool Silk Co., New York, N. Y. Spool-silk and mercerized thread. No. 78,541; June 21; Gaz. vol. 155; p. 796.

Peller, M. & S., New York, N. Y. Suspenders. No. 77,565; Apr. 19; Gaz. vol. 153; p. 818.

Peller, M. & S., New York, N. Y. Suspenders and men's garters and belts. No. 77,828; May 10; Gaz. vol. 154; p. 510.

Peltason Company, The, St. Louis, Mo. Cartons. No. 77,881; May 10; Gaz. vol. 154; p. 512.

Pen-Carbon Manifold Company, New Brunswick, N. J. Carbon-paper. No. 79,855; Oct. 11; Gaz. vol. 159; p. 486.

Penfield Manufacturing Company, Syracuse, N. Y. Mattresses, pillows, and cushions. No. 76,494; Jan. 18; Gaz. vol. 150; p. 823.

Penick & Ford Ltd., Shreveport and New Orleans, La. Compound of molasses and corn-syrup. No. 79,782; Oct. 4; Gaz. vol. 159; p. 239.

Penn Cigar Co., Pittsburg, Pa. Stogies and cigars. No. 78,819; July 12; Gaz. vol. 156; p. 534.

Penn Manufacturing Co., Philadelphia, Pa. Furniture-polishes. No. 79,516; Sept. 13; Gaz. vol. 158; p. 478.

Penn Petroleum Company, Philadelphia, Pa. Lubricating oils and greases. No. 76,656; Feb. 8; Gaz. vol. 151; p. 445.

Pennsylvania Central Brewing Company, Scranton, Pa. Beer. No. 78,734; July 5; Gaz. vol. 156; p. 255.

Pennsylvania Oil Works Co,, New York, N. Y. Lubricating oils and greases. No. 76,875; Feb. 22; Gaz. vol. 151; p. 1009.

Pennsylvania Structural Slate Company, Easton, Pa. Structural slate. No. 77,566; Apr. 19; Gaz. vol. 153; p. 818.

Peoples Oil & Cotton Co., Wharton, Tex. Stock food. No. 79,783; Oct. 4; Gaz. vol. 159; p. 239.

People's Outfitting Company, Detroit, Mich. Rugs. No 78,021; May 24; Gaz. vol. 154; p. 1104.

People's Outfitting Company, Detroit, Mich. Rugs. Nos. 78,820–1; July 12; Gaz. vol. 156; p. 534.

People's Outfitting Company, Detroit, Mich. Rugs. No. 79,688; Sept. 27; Gaz. vol. 158; p. 880.

Perforated Plate Company, Saugerties, N. Y. Metal bake-pans and metal devices for protecting cooking utensils. No. 77,150; Mar. 15; Gaz. vol. 152; p. 727.

Perkins, Alonson D., Los Angeles, Cal. Vehicle wind-shields. No. 78,272; May 31; Gaz. vol. 154; p. 1409.

Perkins-Goodwin Company, New York, N. Y. Book-paper. No. 76,769; Feb. 15; Gaz. vol. 151; p. 726.

Perlman Brothers, Chicago, Ill. Coats, vests, and trousers. No. 77,483; Apr. 12; Gaz. vol. 153; p. 542.

Pessagno & Montresor, New York. N. Y. Red and white wines. No. 78,630; June 28; Gaz. vol. 155; p. 1038.

Peters-Pitkin Company, The, Benton Harbor, Mich. Ready-mixed paints. No. 79,931; Oct. 18; Gaz. vol. 159; p. 744.

Peterson, John B., Detroit, Mich. Suppositories, tablets, &c. No. 77,378; Apr. 5; Gaz. vol. 153; p. 267.

Peterson, John E., Titusville, Pa. Shoe-polish. No. 80,147; Nov. 8; Gaz. vol. 160; p. 490.

Pettingell-Andrews Company, Boston, Mass. Electrical apparatus, machines, and supplies. No. 80,080; Nov. 1; Gaz. vol. 160; p. 254.

Pfaffmann Egg Noodle Co., Cleveland, Ohio. Macaroni. No. 78,348; June 7; Gaz. vol. 155; p. 302.

Pfeiffer, Leop., Vienna, Austria-Hungary. Hair-nets. Nos. 76,373–5; Jan. 11; Gaz. vol. 150; p. 565.

Phelps Publishing Company, The, Springfield, Mass. Serial magazines. No. 77,055; Mar. 8; Gaz. vol. 152; p. 483.

Phenix Cheese Company, South Edmeston and New York, N. Y. Cream-cheese. No. 79,517; Sept. 13; Gaz. vol. 158; p. 478.

Phibbs, Eleanor G., London, England. Certain toilet preparations. No. 76,821; Feb. 15; Gaz. vol. 151; p. 727.

Philadelphia Belting Company, Philadelphia, Pa. Leather belting. No. 76,297; Jan. 4; Gaz. vol. 150; p. 262.

Philadelphia Pure Rye Whiskey Distilling Company of Pennsylvania, Limited, Eddington and Philadelphia, Pa. Straight rye whisky. No. 76,495; Jan. 18; Gaz. vol. 150; p. 823.

Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. Nos. 79,518–19; Sept. 13; Gaz. vol. 158; p. 478.

Philadelphia Suburban Publishing Co., Philadelphia, Pa. Monthly magazine. No. 79,932; Oct. 18; Gaz. vol. 159; p. 744.

Philip H. Postel Milling Company, Mascoutah, Ill. Wheat-flour. No. 78,349; June 7; Gaz. vol. 155; p. 302.

Phillips, Charles H., Boston, Mass. Leather and cloth gloves. No. 76,552; Jan. 25; Gaz. vol. 150; p. 1038.

Phillips & Sons, Godfrey, London, England. Smoking-tobacco mixture. No. 77,484; Apr. 12; Gaz. vol. 153; p. 542.

Phillips & Sons, Godfrey, London, England. Smoking-tobacco, cigars, and cigarettes. No. 77,485; Apr. 12; Gaz. vol. 153; p. 542.

Philo Hay Specialties Co., Newark, N. J. Soap. No. 78,631; June 28; Gaz. vol. 155; p. 1039.

Philo Hay Specialties Co., Newark, N. J. Dressing and invigorant for the hair. No. 79,856; Oct. 11; Gaz. vol. 159; p. 486.

Piedmont Fertilizer Co., Opelika, Ala. Fertilizers. No. 78,823; July 12; Gaz. vol. 156; p. 535.

Pilo Ointment Co., Baltimore, Md. Pile-ointment. No. 80,149; Nov. 8; Gaz. vol. 160; p. 490.

Pinkham & Smith Company, Boston, Mass. Marine and field glasses. No. 77,754; May 3; Gaz. vol. 154; p. 248.

Pioneer Suspender Company, Philadelphia, Pa. Men's garters. No. 77,056; Mar. 8; Gaz. vol. 152; p. 483.

Piqua Hosiery Company, The, Piqua, Ohio. Knitted undershirts, drawers, and union suits. No. 79,690; Sept. 27; Gaz. vol. 158; p. 880.

Pittsburg Knitting Co., Pittsburg Pa. Outer shirts. No. 76,975; Mar. 1; Gaz. vol. 152; p. 225.

Pittsburg White Metal Company, Pittsburg, Pa., and New York, N. Y. Antifriction metals. No. 77,006; Mar. 1; Gaz. vol. 152; p. 226.

Pittsburgh Crushed Steel Company, Pittsburg, Pa. Crushed steel. No. 77,486; Apr. 12; Gaz. vol. 153; p. 542.

Pittsburgh Dry Goods Company, Pittsburg, Pa. Wool blankets. No. 76,657; Feb. 8; Gaz. vol. 151; p. 445.

Pittsburgh Dry Goods Company, Pittsburg, Pa. Overalls. No. 76,673; Feb. 8; Gaz. vol. 151; p. 446.

Pittsburgh Dry Goods Company, Pittsburg, Pa. Overalls. No. 76,745; Feb. 15; Gaz. vol. 151; p. 725.

Pittsburgh Dry Goods Company, Pittsburg, Pa. Wool blankets. Nos. 76,770–1; Feb. 15; Gaz. vol. 151; p. 726.

Pittsburgh Dry Goods Company, The, Pittsburg, Pa. Wool blankets. Nos. 77,057–8; Mar. 8; Gaz. vol. 152; p. 483.

Pittsburgh Dry Goods Company, The, Pittsburg, Pa. Wool blankets. No. 77,487; Apr. 12; Gaz. vol. 153; p. 542.

Pittsburgh Dry Goods Company, The, Pittsburg, Pa. Comforts. No. 77,954; May 17; Gaz. vol. 154; p. 832.

Pittsburgh Dry Goods Company, The, Pittsburg, Pa. Certain piece goods. No. 78,046; May 24; Gaz. vol. 154; p. 1105.

Pittsburgh Dry Goods Company, The, Pittsburg, Pa. Certain notions. No. 79,444; Sept. 6; Gaz. vol. 158; p. 224.

Piver & Cie., L. T., Paris, France. Soaps. No. 77,265; Mar. 22; Gaz. vol. 152; p. 955.

Plant-Butler Co., The, Cincinnati, Ohio. Leather boots and shoes. No. 77,829; May 10; Gaz. vol. 154; p. 510.

Planten, H. Rolff, Brooklyn, N. Y. Remedy for genito-urinary diseases. No. 78,022; May 24; Gaz. vol. 154; p. 1104.

Platt & Co., Baltimore, Md. Canned oysters. No. 78,824; July 12; Gaz. vol. 156; p. 535.

Platt & Co., Baltimore, Md. Canned oysters, fruits, and vegetables. No. 79,004; July 26; Gaz. vol. 156; p. 1063.

Platt & Thornburgh Paint Company, St. Louis, Mo. Mixed paint. No. 77,329; Mar. 29; Gaz. vol. 152; p. 1220.

Plum, Matthias, Newark, N. J. Printing-presses and parts thereof. No. 77,882; May 10; Gaz. vol. 154; p. 512.

Plumb, Chas. L., Cranford, N. J., and New York, N. Y. Wheat-flour. No. 76,531; Jan. 25; Gaz. vol. 150; p. 1038.

Poirier & Lindeman, New York, N. Y. Hair-nets. No. 78,126; May 31; Gaz. vol. 154; p. 1405.

Poirier & Lindeman, New York, N. Y. Garter-webs and hair-nets. No. 78,127; May 31; Gaz. vol. 154; p. 1405.

Pollock Medicine Co., East St. Louis, Ill. Headache-powders. No. 80,081; Nov. 1; Gaz. vol. 160; p. 255.

Pope & Wilson, Chicago, Ill. Lotion and face-cream. No. 76,723; Feb. 8; Gaz. vol. 151; p. 447.

Popp, C. A., New York, N. Y. Herb tea. No. 76,838; Feb. 15; Gaz. vol. 151; p. 728.

Porcelain Enameling Ass'n. of America, Sheboygan, Wis. Enamel metal ware. No. 80,150; Nov. 8; Gaz. vol. 160; p. 490.

Porterbryggeri-Aktiebolaget D. Carnegie & Co., Gottenborg, Sweden. Porter. No. 76,333; Jan. 4; Gaz. vol. 150; p. 263.

Porzellanfabrik Weiden, Gebr. Bauscher, G. m. b. H., Weiden, Germany. Porcelain ware. No. 79,599; Sept. 20; Gaz. vol. 158; p. 698.

Postum Cereal Co., Limited, Battle Creek, Mich. Corn breakfast foods. No. 79,297; Aug. 23; Gaz. vol. 157; p. 996.

Postum Cereal Co., Limited, Battle Creek, Mich. Wheat and barley breakfast foods. No. 79,298; Aug. 23; Gaz. vol. 157; p. 996.

Postum Cereal Co., Limited, Battle Creek, Mich. Wheat and barley breakfast foods. No. 80,492; Dec. 27; Gaz. vol. 161; p. 1040.

Postum Cereal Co., Limited, Battle Creek, Mich. Corn breakfast foods. No. 80,493; Dec. 27; Gaz. vol. 161; p. 1040.

Potato Implement Company, Traverse City, Mich. Agricultural implements. No. 76,458; Jan. 18; Gaz. vol. 150; p. 822.

Potter, Jefferson T., Seward, Nebr. Remedy for constipation. No. 78,128; May 31; Gaz. vol. 154; p. 1405.

Alphabetical list of registrants of trade-marks—Continued.

Poultry Dust Bath Company, Whiting Ind. Germicides, disinfectants, and vermin-exterminators. No. 79,229; Aug. 16; Gaz. vol. 157; p. 750.
Powell Co., E. E., Philadelphia, Pa. Certain toilet preparations. No. 80,082; Nov. 1; Gaz vol. 160; p. 255.
Powers Paper Company, Associates, Holyoke, Mass., and New York, N. Y. Paper and envelops. No. 78,632; June 28; Gaz. vol. 155; p. 1039.
Powers Paper Company, Associates, Holyoke, Mass., and New York, N. Y. Writing-paper, papeteries, and envelops. No. 78,902; July 19; Gaz. vol. 156; p. 794.
Powers Paper Company, Associates, Springfield, Mass., and New York, N. Y. Certain named paper, envelops, and tablets. No. 79,445; Sept. 6; Gaz. vol. 158; p. 224.
Prairie Medicine Company, Rolling Prairie, Ind. Ointment. No. 79,784; Oct. 4; Gaz. vol. 159; p. 239.
Prairie State Incubator Company, Homer City, Pa. Hovers. No. 80,438; Dec. 20; Gaz. vol. 161; p. 750.
Pratt, Elias M., Detroit, Mich. Printing-ink reducer and drier combined. No. 78,023; May 24; Gaz. vol. 154; p. 1104.
Pratt Engineering & Machine Co., Atlanta, Ga. Certain machinery. No. 78,350; June 7; Gaz. vol. 155; p. 302.
Pratt & Lambert, Inc., Buffalo, N. Y. Varnish. No. 79,446; Sept. 6; Gaz. vol. 158; p. 224.
Pratt & Lambert, Inc., Buffalo, N. Y. Varnish. Nos. 79,520–1; Sept. 13; Gaz. vol. 158; p. 478.
Pratt & Lambert, Inc., Buffalo, N. Y. Liquid drier. No. 79,522; Sept. 13; Gaz. vol. 158; p. 479.
Pratt & Lambert, Inc., Buffalo, N. Y. Varnish. No. 80,196; Nov. 15; Gaz. vol. 160; p. 769.
Pratt-Low Preserving Company, Santa Clara, Cal. Canned fruits and vegetables. No. 76,599; Feb. 1; Gaz. vol. 151; p. 190.
Pratt-Low Preserving Company, Santa Clara, Cal. Canned fruits and canned vegetables. No. 76,698; Feb. 8; Gaz. vol. 151; p. 446.
Pratt-Low Preserving Company, Santa Clara, Cal. Canned fruits and vegetables. No. 77,138; Mar. 15; Gaz. vol. 152; p. 727.
Pratt-Low Preserving Company, Santa Clara, Cal. Canned fruits and vegetables. No. 77,955; May 17; Gaz. vol. 154; p. 832.
Pratt-Low Preserving Company, Santa Clara, Cal. Canned fruits and vegetables. No. 78,274; May 31; Gaz. vol. 154; p. 1409.
Prée, A., Dresden, Germany. Paint. No. 76,404; Jan. 11; Gaz. vol. 150; p. 566.
Prentiss, George L., New York, N. Y., assignor to Hemming Manufacturing Company. Certain electrical supplies. No. 78,633; June 28; Gaz. vol. 155; p. 1039.
Prentiss Vise Company, New York, N. Y. Vise. Nos. 78,634–8; June 28; Gaz. vol. 155; p. 1039.
Prentiss Vise Company, New York, N. Y. Vises. No. 79,692; Sept. 27; Gaz. vol. 158; p. 880.
Prentiss Vise Company, New York, N. Y. Vises. No. 80,376; Dec. 13; Gaz. vol. 161; p. 526.
Pressed Radiator Company of America, The, Pittsburg, Pa. Steam and hot-water boilers and radiators. No. 79,152; Aug. 9; Gaz. vol. 157; p. 482.
Price Flavoring Extract Company, Chicago, Ill. Flavoring extracts. No. 77,567; Apr. 19; Gaz. vol. 153; p. 818.
Price, John C., Milwaukee, Wis. Tonics. No. 76,480; Jan. 18; Gaz. vol. 150; p. 822.
Price & Lucas Cider & Vinegar Co., Louisville, Ky. Compound cider and compound phosphate beverage. No. 79,785; Oct. 4; Gaz. vol. 159; p. 239.
Prieur, René, New York, N. Y. Moving-picture films. No. 78,351; June 7; Gaz. vol. 155; p. 302.
Princess Corset Co., New York, N. Y. Corsets. No. 77,568; Apr. 19; Gaz. vol. 153; p. 818.
Prinkey, James W., Scottdale, Pa. Game-board. No. 79,077; Aug. 2; Gaz. vol. 157; p. 204.
Printz, Biederman Co., Cleveland, Ohio. Interlining. No. 79,694; Sept. 27; Gaz. vol. 158; p. 880.
Protal Company, Portland, Me., and New York, N. Y. Plastic material. Nos. 79,632–5; Sept. 20; Gaz. vol. 158; p. 699.
Proudfit Ormsby Commission Company, Denver, Colo. Eggs. No. 80,083; Nov. 1; Gaz. vol. 160; p. 255.
Providence Steam Trap Company, Providence, R. I. Plumbing-traps. No. 78,275; May 31; Gaz. vol. 154; p. 1409.
Puhl-Webb Co., Chicago, Ill. Blended coffee. No. 76,298; Jan. 4; Gaz. vol. 150; p. 262.
Pulvermacher und Bremermann, Gesellschaft mit beschränkter Haftung, Schöneberg, near Berlin, Germany. Molding and modeling machines. No. 79,447; Sept. 6; Gaz. vol. 158; p. 224.
Purdue Frederick Co., The, New York, N. Y. Utero-ovarian corrective and tonic. No. 76,299; Jan. 4; Gaz. vol. 150; p. 262.
Puritan Remedy Co., Reno, Nev. Nerve-tonic. No. 76,839; Feb. 15; Gaz. vol. 151; p. 728.
Puritan Soap Company, Rochester, N. Y. Soap. No. 79,365; Aug. 30; Gaz. vol. 157; p. 1240.
Purity Laboratories, New York, N. Y. Foot-powder. No. 79,695; Sept. 27; Gaz. vol. 158; p. 880.
Putnam, John W., Charleston, Mo. Sweeping compound. No. 78,903; July 19; Gaz. vol. 156; p. 794.
Puttmann, Paul, New York, N. Y. Glue. No. 76,459; Jan. 18; Gaz. vol. 150; p. 822.
Q. M. S. Co., The., Plainfield, N. J. Wrenches. No. 77,094; Mar. 8; Gaz. vol. 152; p. 484.
Quaker City Chocolate and Confectionery Company, Philadelphia, Pa. Chocolate creams. No. 76,699; Feb. 8; Gaz. vol. 151; p. 446.
Quaker City Flour Mills Company, Philadelphia, Pa. Wheat-flour. Nos. 79,079–80; Aug. 2; Gaz. vol. 157; p. 204.
Quilty, Charles F., Springfield, Mass. Cigars. No. 77,044; Mar. 1; Gaz. vol. 152; p. 227.
Quinn-Marshall Co., Lynchburg, Va. Cotton sheetings. No. 77,956; May 17; Gaz. vol. 154; p. 832.
Quirbach, Jacob, Lowell, Mass. Cigars. No. 76,795; Feb. 15; Gaz. vol. 151; p. 726.
R. Munroe & Sons Mfg. Corporation, Pittsburg, Pa. Covers for manholes and hand-holes. No. 79,850; Oct. 11; Gaz. vol. 159; p. 486.
R. B. Horn Company, Winston Salem, N. C. Candies. No. 79,127; Aug. 9; Gaz. vol. 157; p. 482.
R. B. MacLea Company, New York, N. Y., and Jersey City, N. J. Certain piece goods. No. 77,139; Mar. 15; Gaz. vol. 152; p. 727.
R. F. Conway Company, Chicago, Ill. Asphalt. No. 80,346; Dec. 13; Gaz. vol. 161; p. 525.
R. F. Simmons Company, Attleboro, Mass. Jewelry. No. 79,795; Oct. 4; Gaz. vol. 159; p. 239.
R. & J. Dick Ltd., Glasgow, Scotland. Machinery-driving belts and bands. No. 79,327; Aug. 30; Gaz. vol. 157; p. 1239.
R. R. Donnelley & Sons Company, Chicago, Ill. Pictures and pictorial illustrations. No. 77,407; Apr. 5; Gaz. vol. 153; p. 268.
R. T. French Company, The, Rochester, N. Y. Coffee, spices, and flavoring extracts. No. 78,667; June 28; Gaz. vol. 155; p. 1039.
Raffenbeul, Gustav, Schwelm, Germany. Button-fasteners. No. 77,266; Mar. 22; Gaz. vol. 152; p. 955.
Raffenbeul, Gustav, Schwelm, Germany. Button-fastening machines. No. 77,671; Apr. 26; Gaz. vol. 153; p. 1079.
Rainbow Dye Co., New York, N. Y. Preparation for coloring the hair. No. 77,569; Apr. 19; Gaz. vol. 153; p. 819.
Ralph Martindale & Co., Limited, Birmingham, England. Certain tools. No. 78,889; July 19; Gaz. vol. 156; p. 794.
Randals Company, S. C., The, Houston, Tex. Dry shampoo No. 78,825; July 12; Gaz. vol. 156; p. 535.
Randle Machinery Co., Cincinnati, Ohio. Injectors, boiler-feeders, and jet-pumps. No. 78,904; July 19; Gaz. vol. 156; p. 794.
Randle Machinery Company, The, Cincinnati, Ohio. Injectors. No. 79,006; July 26; Gaz. vol. 156; p. 1063.
Ransome Concrete Machinery Co., Dunellen, N. J. Preparations for chemically treating the surface of concrete. No. 79,153; Aug. 9; Gaz vol. 157; p. 482.
Rapid Knife & Fork Cleaner Co., The, Long Island City, N. Y. Cleaning and scouring tools. No. 80,151; Nov. 8; Gaz. vol. 160; p. 490.
Raschig, F., Ludwigshafen-on-the-Rhine, Germany. Carbolic acid, cresol, and disinfectants. No. 80,238; Nov. 22; Gaz. vol. 160; p. 1034.
Rast, Felix Q., Boston, Mass. Dried raisins. No. 76,300; Jan. 4; Gaz. vol. 150; p. 262.
Rathbone, Sard & Co., Albany, N. Y.; Detroit, Mich.; Chicago and Aurora, Ill. Stoves, ranges, and furnaces. No. 78,905; July 19; Gaz. vol. 156; p. 794.
Rauber & Co., John, Rochester, N. Y. Whisky. No. 77,488; Apr. 12; Gaz. vol. 153; p. 542.
Rauh Bros & Company, Pittsburg, Pa. Dress, work, and negligée shirts and undershirts. No. 77,330; Mar. 29; Gaz. vol. 152; p. 1220.
Rausch, August M., Pittsburg, Pa. Paint and varnish cleaning compound. No. 79,636; Sept. 20; Gaz. vol. 158; p. 699.
Raven Red Ash Coal Co. Inc., Red Ash, Va. Coal. No. 78,443; June 14; Gaz. vol. 155; p. 550.
Rawlins, Anne E., St. Louis, Mo. Washing compound. No. 77,755; May 3; Gaz. vol. 154; p. 248.
Raynor & Perkins Envelope Company, New York, N. Y. Writing and printing paper and envelops. No. 77,672; Apr. 26; Gaz. vol. 153; p. 1079.
Rea-Patterson Milling Company, The, Coffeyville, Kans. Wheat-flour. No. 78,276; May 31; Gaz. vol. 154; p. 1409.
Rea-Patterson Milling Company, The, Coffeyville, Kans. Wheat-flour. No. 80,239; Nov. 22; Gaz. vol. 160; p. 1034.
Rea-Patterson Milling Company, The, Coffeyville, Kans. Wheat-flour. No. 80,377; Dec. 13; Gaz. vol. 161; p. 526.
Rea-Patterson Milling Company, The, Coffeyville, Kans. Wheat-flour. No. 80,439; Dec. 20; Gaz. vol. 161; p. 750.
Red "C" Oil M'f'g Co. of Baltimore City, Baltimore, Md. Axle and lubricating grease. No. 80,152; Nov. 8; Gaz. vol. 160; p. 490.
Red Wing Milling Company, Red Wing, Minn. Wheat-flour. No. 79,858; Oct. 11; Gaz. vol. 159; p. 486.
Reed, John T., Baltimore, Md. Candies. No. 79,696; Sept. 27; Gaz. vol. 158; p. 880.

Alphabetical list of registrants of trade-marks—Continued.

Reeder & Son, Oliver, Baltimore, Md. Marine paint. No. 80,153; Nov. 8; Gaz. vol. 160; p. 490.
Regal Shoe Company, Boston, Mass. Hosiery. No. 78,907; July 19; Gaz. vol. 156; p. 794.
Reichardt, F. Alfred, Elizabeth, N. J., and New York, N. Y. Instruments for sharpening razors. No. 78,386; June 7; Gaz. vol. 155; p. 303.
Reicks, Clair E., Jacksonville, Fla. Working-gloves. No. 77,756; May 3; Gaz. vol. 154; p. 248.
Reid & Co., A. L., New York, N. Y. Mercerized nainsook. No. 77,379; Apr. 5; Gaz. vol. 153; p. 267.
Reiffarth, Oscar, Brooklyn, N. Y. Tooth-brushes. No. 77,408; Apr. 5; Gaz. vol. 153; p. 268.
Reiling and Schoen, New York, N. Y. Poplin piece goods. Nos. 78,024–7; May 24; Gaz. vol. 154; p. 1104.
Reiling and Schoen, New York, N. Y. Poplin piece goods. No. 78,129; May 31; Gaz. vol. 154; p. 1405.
Reilly & Britton Company, Chicago, Ill. Books of fiction, published serially. No. 77,151; Mar. 15; Gaz. vol. 152; p. 728.
Reily-Taylor Company, The, New Orleans, La. Compound of coffee and chicory. No. 77,957; May 17; Gaz. vol. 154; p. 833.
Reinhard, Samuel E., Baltimore, Md. Overcoats, coats, vests, and trousers. No. 80,440; Dec. 20; Gaz. vol. 161; p. 750.
Reinhardt, Julius M., Larned, Kans. Remedy for diseases of the blood, sprains, corns, and warts. No. 79,230; Aug. 16; Gaz. vol. 157; p. 750.
Reinhart & Newton Company, The, Cincinnati, Ohio. Candy. No. 78,353; June 7; Gaz. vol. 155; p. 302.
Reliable Vending Co., New York, N. Y. Chewing-gum. No. 79,998; Oct. 25; Gaz. vol. 159; p. 988.
Reliance Glove Co., Chicago, Ill. Gloves. No. 79,859; Oct. 11; Gaz. vol. 159; p. 486.
Reliance Manufacturing Company, Chicago, Ill. Work-shirts, overalls, and jackets. No. 78,205; May 31; Gaz. vol. 154; p. 1407.
Rennous Kleinle & Co., Baltimore, Md. Brushes. No. 77,409; Apr. 5; Gaz. vol. 153; p. 268.
Rennous Kleinle & Co. of Baltimore City, Baltimore, Md. Stucco, wall-paint, and calcimine brushes. No. 76,978; Mar. 1; Gaz. vol. 152; p. 225.
Republic Metalware Company, The, Buffalo, N. Y. Tin-ware kitchen and household utensils. No. 78,736; July 5; Gaz. vol. 156; p. 255.
Republic Metalware Company, Buffalo, N. Y. Enameled metal ware. No. 80,235; Nov. 22; Gaz. vol. 160; p. 1034.
Republic Rubber Company, The, Youngstown, Ohio. Power-transmitting and conveyer belts. No. 79,366; Aug. 30; Gaz. vol. 157; p. 1240.
Revere Rubber Company, Boston, Mass. Belting, hose, packing, and tires. No. 76,301; Jan. 4; Gaz. vol. 150; p. 262.
Revere Rubber Company, Boston, Mass. Belting, hose, and certain tires. No. 77,189; Mar. 15; Gaz. vol. 152; p. 729.
Rexine Company, The, Sheboygan, Wis. Semiliquid soap. No. 77,045; Mar. 1; Gaz. vol. 152; p. 227.
Reymond, John P., Kansas City, Mo. Photographic intensifiers and reducers. No. 78,354; June 7; Gaz. vol. 155; p. 302.
Reynolds & Co., Wm. T., Poughkeepsie, N. Y. Canned fruits and vegetables. No. 78,444; June 14; Gaz. vol. 155; p. 550.
Reynolds, Davis & Company, Fort Smith, Ark. Certain foods. No. 77,757; May 3; Gaz. vol. 154; p. 248.
Reynolds, Davis & Company, Fort Smith, Ark. Coffee. No. 78,908; July 19; Gaz. vol. 156; p. 794.
Rhenania Vereinigte Emaillirwerke, Aktien-Gesellschaft, Dusseldorf, Germany. Enameled-metal household and cooking utensils. No. 77,489; Apr. 12; Gaz. vol. 153; p. 542.
Rhine & Co., New York, N. Y. Certain textile fabrics. No. 78,445; June 14; Gaz. vol. 155; p. 550.
Rhode Island Perkins Horse Shoe Company, Providence, R. I. Horseshoes and horseshoe-calks. No. 79,299; Aug. 23; Gaz. vol. 157; p. 996.
Ribo-Werke, G. m. b. H., Bremen, Germany. Certain foods. No. 79,600; Sept. 20; Gaz. vol. 158; p. 698.
Rice & Co., Edward F., Millbury, Mass. Mercerized bleached-cotton damask napkins. No. 78,130; May 31; Gaz. vol. 154; p. 1405.
Rice-Stix Dry Goods Company, St. Louis, Mo. Certain clothing. No. 77,758; May 3; Gaz. vol. 154; p. 248.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 78,355; June 7; Gaz. vol. 155; p. 302.
Rich & Co., N. J., Cleveland, Ohio. Knit scarfs and mufflers. Nos. 79,601–2; Sept. 20; Gaz. vol. 158; p. 698.
Rich. Schubert & Co., Weinhöhla, near Dresden, Germany. Ointments. No. 80,496; Dec. 27; Gaz. vol. 161; p. 1040.
Richard E. Thibaut, Inc., New York, N. Y. Wall-paper. No. 79,171; Aug. 9; Gaz. vol. 157; p. 483.
Richard Hudnut, New York, N. Y. Perfumes. No. 80,184; Nov. 15; Gaz. vol. 160; p. 769.
Richards, Ed. T., Chicago, Ill. Remedies for skin diseases. No. 78,826; July 12; Gaz. vol. 156; p. 535.
Richards Mfg. Co., The, Aurora, Ill. Door-hangers and tracks for same. No. 77,570; Apr. 19; Gaz. vol. 153; p. 819.
Richardson, Wade H., El Paso, Tex. Remedy for treatment of skin diseases. No. 76,724; Feb. 8; Gaz. vol. 151; p. 447.
Richmond Cedar Works, Richmond, Va. Domestic washing-machines. No. 78,206; May 31; Gaz. vol. 154; p. 1407.
Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga. Hosiery. No. 78,446; June 14; Gaz. vol. 155; p. 550.
Rich's Sons, B., Washington, D. C. Boots, shoes, oxfords, and slippers. No. 76,796; Feb. 15; Gaz. vol. 151; p. 726.
Rickard-Gregory Shoe Co., The, Lynn, Mass. Leather boots and shoes. No. 78,447; June 14; Gaz. vol. 155; p. 550.
Ricketson & Schwarz, Milwaukee, Wis. Brick. No. 79,523; Sept. 13; Gaz. vol. 158; p. 479.
Ridenour-Baker Grocery Co., Kansas City, Mo. Blended tea and roasted coffee. No. 77,140; Mar. 15; Gaz. vol. 152; p. 727.
Rider, John W., Scottsburg, Ind. Canned foods. No. 77,830; May 10; Gaz. vol. 154; p. 510.
Rider, John W., Scottsburg, Ind. Canned lye-hominy. No. 77,831; May 10; Gaz. vol. 154; p. 510.
Rider, John W., Scottsburg, Ind. Canned sauer-kraut. No. 77,958; May 17; Gaz. vol. 154; p. 833.
Ridgway Brick Co., Ridgway, Pa. Bricks. No. 79,697; Sept. 27; Gaz. vol. 158; p. 880.
Ridgways Limited, London, England. Tea. No. 78,639; June 28; Gaz. vol. 155; p. 1039.
Ridley-Williamson-Spain Co., Atlanta, Ga. Dress, negligée, and work shirts. No. 76,302; Jan. 4; Gaz. vol. 150; p. 262.
Rieck, Hubert, Newark, N. J. Remedy against diabetes. No. 76,303; Jan. 4; Gaz. vol. 150; p. 262.
Risler & Cie., Freiburg, Baden, Germany. Porcelain buttons and beads. No. 79,231; Aug. 16; Gaz. vol. 157; p. 750.
Roach Brothers, Fort Wayne, Ind. Soap and soap powders. No. 77,759; May 3; Gaz. vol. 154; p. 248.
Robbins & Myers Company, The, Springfield, Ohio. Electric fans. No. 77,490; Apr. 12; Gaz. vol. 153; p. 542.
Robert A. Keasbey Company, New York, N. Y. Machinery packing. No. 79,839; Oct. 11; Gaz. vol. 159; p. 486.
Robert G. Thomas & Son, New York, N. Y. Tea and coffee. No. 76,944; Feb. 22; Gaz. vol. 151; p. 1011.
Robert J. MacFarland & Company, New York, N. Y. Hats and caps. No. 77,491; Apr. 12; Gaz. vol. 153; p. 542.
Roberts, Johnson, & Rand Shoe Company, St. Louis, Mo. Leather automobile-boots. No. 77,380; Apr. 5; Gaz. vol. 153; p. 267.
Roberts, Johnson & Rand Shoe Company, St. Louis, Mo. Shoes, hats, outer and under waists, and hosiery. No. 80,197; Nov. 15; Gaz. vol. 160; p. 770.
Roberts & Meck, Harrisburg, Pa. Certain blank books and stationery. No. 77,030; Mar. 1; Gaz. vol. 152; p. 227.
Roberts, Sanford & Taylor Co., Sherman, Tex. Certain hardware. No. 79,300; Aug. 23; Gaz. vol. 157; p. 996.
Roberts, Sanford & Taylor Company, Sherman, Tex. Certain cutlery, tools, and machines. No. 79,007; July 26; Gaz. vol. 156; p. 1063.
Robertson, John W., Rector, Ark. Preparation for treating blight. No. 79,603; Sept. 20; Gaz. vol. 158; p. 698.
Robinson & Co., Richmond, Ind. Grain-separators and threshing-machines. No. 79,698; Sept. 27; Gaz. vol. 158; p. 880.
Robinson, Herman F., Gloucester, Mass. Glue. No. 77,883; May 10; Gaz. vol. 154; p. 512.
Robinson-Roders Co., Newark, N. J. Mattresses, pillows, and cushions. No. 78,640; June 28; Gaz. vol. 155; p. 1039.
Robinson Seed and Plant Company, Dallas, Tex. Farm, garden, and flower seeds. No. 79,860; Oct. 11; Gaz. vol. 159; p. 486.
Robison Bros., Paris, Ill. Adhesive cement. No. 76,746; Feb. 15; Gaz. vol. 151; p. 725.
Rochester Candy Works, Rochester, N. Y. Candy. No. 79,154; Aug. 9; Gaz. vol. 157; p. 482.
Rockwell Furnace Co., New York, N. Y. Oil, coal, and gas furnaces and parts thereof. No. 79,524; Sept. 13; Gaz. vol. 158; p. 478.
Rockwell Manufacturing Company, West Chester, Pa. Gasolene-engines. No. 80,084; Nov. 1; Gaz. vol. 160; p. 255.
Rocky Mountain Water Company, The, Omaha, Nebr. Natural table-water. No. 77,331; Mar. 29; Gaz. vol. 152; p. 1220.
Rodhe, Olof, Stockholm, Sweden. Apparatus for analyzing gases and repair parts therefor. No. 77,884; May 10; Gaz. vol. 154; p. 512.
Roelofs and Company, Henry H., Philadelphia, Pa. Men's hats and caps. No. 78,131; May 31; Gaz. vol. 154; p. 1405.
Roesky, Emil W., Coffeyville, Kans. Remedy for rheumatism. No. 79,008; July 26; Gaz. vol. 156; p. 1063.
Roessler & Hasslacher Chemical Co., The, New York, N. Y. Washing-powder. No. 78,641; June 28; Gaz. vol. 155; p. 1039.
Roessler & Hasslacher Chemical Company, The. (See Dr. Rickmann & Rappe, G. m. b. H., Chemische Fabrik, assignor.)
Roethlisberger & Co., New York, N. Y. Cheese. No. 79,367; Aug. 30; Gaz. vol. 157; p. 1240.

Alphabetical list of registrants of trade-marks—Continued.

Rogers Company, The, Tacoma, Wash. Coffee, tea, spices, and flavoring extracts. No. 80,085; Nov. 1; Gaz. vol. 160; p. 255.
Rogers & Hubbard Co., The, Middletown, Conn. Manurial compounds. No. 79,155; Aug. 9; Gaz. vol. 157; p. 482.
Rogers & Thompson, West New York, N. J., and New York, N. Y. Silk, cotton, and silk and cotton piece goods. No. 76,772; Feb. 15; Gaz. vol. 151; p. 726.
Rogers & Thompson, West New York, N. J., and New York, N. Y. Silk piece goods. No. 77,381; Apr. 5; Gaz. vol. 153; p. 267.
Rogers & Thompson, West New York, N. J., and New York, N. Y. Certain piece goods. No. 78,827; July 12; Gaz. vol. 156; p. 535.
Rogers & Thompson, West New York, N. J., and New York, N. Y. Silk and cotton piece goods. Nos. 79,368–9; Aug. 30; Gaz. vol. 157; p. 1240.
Rogers & Thompson, West New York, N. J., and New York, N. Y. Certain piece goods. No. 79,604; Sept. 20; Gaz. vol. 158; p. 698.
Rogers & Thompson, West New York, N. J., and New York, N. Y. Silk piece goods. No. 79,786; Oct. 4; Gaz. vol. 159; p. 239.
Rogers, William H., Houston, Tex. Paints, varnishes, stains, and finishes. No. 76,892; Feb. 22; Gaz. vol. 151; p. 1010.
Röhm & Hass, Esslinger, Germany. Pickling and baiting substances for tanning. No. 77,178; Mar. 15; Gaz. vol. 152; p. 728.
Rohrbacher Automatic Air Pump Co., Portland, Oreg. Lubricating-grease. No. 79,301; Aug. 23; Gaz. vol. 157; p. 996.
Rolf-Martin Company, Fort Wayne, Ind. Certain heaters, furnaces, and torches. No. 76,630; Feb. 1; Gaz. vol. 151; p. 191.
Rolf-Martin Company, Fort Wayne, Ind. Certain plumbing supplies. No. 76,700; Feb. 8; Gaz. vol. 151; p. 440.
Rolka & Klein, New York, N. Y. Certain cutlery. No. 79,525; Sept. 13; Gaz. vol. 158; p. 479.
Roren, Albert, Providence, R. I. Combination-wrench. No. 80,240; Nov. 22; Gaz. vol. 160; p. 1034.
Rosenberg, Augustus, London, England. Powder for polishing metal surfaces. No. 78,278; May 31; Gaz. vol. 154; p. 1409.
Rosenberg, Harry, Chicago, Ill. Building-paper. No. 77,332; Mar. 29; Gaz. vol. 152; p. 1220.
Rosenblatt Co., The, San Francisco, Cal. Brandy. No. 80,241; Nov. 22; Gaz. vol. 160; p. 1034.
Rosenthal, Samuel, Washington, D. C. Hats, overcoats, coats, trousers, &c. No. 80,441; Dec. 20; Gaz. vol. 161; p. 750.
Ross, William, Troy, N. Y. Ice-cream ladles. Nos. 79,370–1; Aug. 30; Gaz. vol. 157; p. 1240.
Ross, William, Troy, N. Y. Pressure-regulating valves. No. 79,861; Oct. 11; Gaz. vol. 159; p. 486.
Roswell Wool & Hide Company, Roswell, N. Mex. Alfalfa-meal and alfalfa meal stock food. No. 76,773; Feb. 15; Gaz. vol. 151; p. 726.
Rothband & Co., W. S., Manchester, England. Waterproof bed-sheeting. No. 80,494; Dec. 27; Gaz. vol. 161; p. 1040.
Rothenberg Company, The, San Francisco, Cal. Whisky. No. 76,419; Jan. 11; Gaz. vol. 150; p. 567.
Roundy, Peckham & Dexter Co., Milwaukee, Wis. Certain foods. No. 77,333; Mar. 29; Gaz. vol. 152; p. 1220.
Rouse, Hempstone & Co., Baltimore, Md. Certain named clothing. No. 79,302; Aug. 23; Gaz. vol. 157; p. 996.
Rouse, Hempstone & Co., Baltimore, Md. Suspenders, belts, and embroideries. No. 79,605; Sept. 20; Gaz. vol. 158; p. 698.
Rouse, Hempstone & Co., Baltimore, Md. Neckties, cravats, scarfs, &c. No. 79,606; Sept. 20; Gaz. vol. 158; p. 698.
Rowe Patent Calk Company, The, Hartford, Conn. Horse-shoe-calks. No. 78,207; May 31; Gaz. vol. 154; p. 1407.
Rowe Patent Calk Company, The, Hartford, Conn. Horse-shoe-calks. No. 78,279; May 31; Gaz. vol. 154; p. 1409.
Rowney & Co., George, London, England. Artists' varnishes. No. 80,495; Dec. 27; Gaz. vol. 161; p. 1040.
Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Baking-powder. No. 78,828; July 12; Gaz. vol. 156; p. 535.
Royal Health Medicine Co., Middlesboro, Ky. Remedies for certain diseases. No. 79,607; Sept. 20; Gaz. vol. 158; p. 698.
Royal Silver Mfg. Co., Norfolk, Va. Knives, forks, and spoons of precious-metal and plated ware. No. 76,573; Feb. 1; Gaz. vol. 151; p. 189.
Royal Solvent Company, Syracuse, N. Y. Soaps. No. 77,267; Mar. 22; Gaz. vol. 152; p. 955.
Royal Washer Company, Newark, N. J. Laundry washing-machines. No. 77,268; Mar. 22; Gaz. vol. 152; p. 955.
Royal Worcester Corset Co., Worcester, Mass. Hose-supporters. No. 76,658; Feb. 8; Gaz. vol. 151; p. 445.
Rub-A-Lac Manufacturing Company, Glouster and Marietta, Ohio. Washing compound. No. 76,304; Jan. 4; Gaz. vol. 150; p. 262.
Rubber Company of America, Dover, Del.; New York, N. Y., and Jersey City, N. J. Rubber tires and tire-shoes. No. 78,448; June 14; Gaz. vol. 155; p. 550.
Rudolph Wurlitzer Co., Cincinnati, Ohio. Musical strings. Nos. 76,376–8; Jan. 11; Gaz. vol. 150; pp. 565–6.
Rudolph Wurlitzer Co., Cincinnati, Ohio. Certain musical instruments and supplies. No. 76,420; Jan. 11; Gaz. vol. 150; p. 567.
Rudolph Wurlitzer Co., Cincinnati, Ohio. Horns and violins. No. 76,639; Feb. 8; Gaz. vol. 151; p. 445.
Rudolph Wurlitzer Co., Cincinnati, Ohio. Brass horns and violins and mandolin-tailpieces. No. 76,640; Feb. 8; Gaz. vol. 151; p. 445.
Rudolph Wurlitzer Co., Cincinnati, Ohio. Brass horns and violins. No. 76,641; Feb. 8; Gaz. vol. 151; p. 445.
Rudolph Wurlitzer Co., Cincinnati, Ohio. Certain musical instruments and supplies. No. 76,642; Feb. 8; Gaz. vol. 151; p. 445.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Banjos. No. 77,760; May 3; Gaz. vol. 154; p. 249.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Certain musical instruments. No. 77,761; May 3; Gaz. vol. 154; p. 249.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Violins and violin-bows. No. 78,152; May 31; Gaz. vol. 154; p. 1405.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Guitar capo tastos. Nos. 78,369–71; June 7; Gaz. vol. 155; p. 303.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Music-stands. No. 78,372; June 7; Gaz. vol. 155; p. 303.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Accordions. No. 78,389; June 7; Gaz. vol. 155; p. 303.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Cornets, trumpets, French horns, &c. No. 78,663; June 28; Gaz. vol. 155; p. 1039.
Rudolph Wurlitzer Company, The, Cincinnati, Ohio. Musical strings. No. 80,256; Nov. 22; Gaz. vol. 160; p. 1034.
Rueckheim Bros. & Eckstein, Chicago, Ill. Candied popcorn. No. 79,010; July 26; Gaz. vol. 156; p. 1063.
Ruffe, A. L., Grand Rapids, Mich. Remedy for certain diseases. No. 79,232; Aug. 16; Gaz. vol. 157; p. 750.
Ruge Bros. Canning Company, Englewood, N. J.; Apalachicola and Cedar Keys, Fla., and Baltimore, Md. Canned oysters. Nos. 76,600–4; Feb. 1; Gaz. vol. 151; p. 190.
Ruge Bros. Canning Company, Englewood, N. J.; Apalachicola and Cedar Keys, Fla., and Baltimore, Md. Canned oysters. No. 77,269; Mar. 22; Gaz. vol. 152; p. 955.
Ruge Bros. Canning Company, Englewood, N. J.; Apalachicola and Cedar Keys, Fla., and Baltimore, Md. Canned oysters. No. 77,334; Mar. 29; Gaz. vol. 152; p. 1220.
Ruge Bros. Canning Company, Englewood, N. J.; Apalachicola and Cedar Keys, Fla., and Baltimore, Md. Canned oysters. No. 77,832; May 10; Gaz. vol. 154; p. 510.
Ruge Bros. Canning Company, Englewood, N. J.; Apalachicola and Cedar Keys, Fla., and Baltimore, Md. Canned oysters. No. 78,047; May 24; Gaz. vol. 154; p. 1105.
Ruge Bros. Canning Company, Englewood, N. J.; Apalachicola and Cedar Keys, Fla., and Baltimore, Md. Canned oysters. No. 78,208; May 31; Gaz. vol. 154; p. 1407.
Runyon, Conrad, Twin Branch, W. Va. Compound for treating heart disease. No. 76,925; Feb. 22; Gaz. vol. 151; p. 1011.
Russell Embroidering Co., The, New York, N. Y. Flannels in the piece. No. 80,505; Dec. 27; Gaz. vol. 161; p. 1040.
Russell & Erwin Manufacturing Company, New Britain, Conn. Certain tools and machines. No. 78,643; June 28; Gaz. vol. 155; p. 1039.
Russell & Erwin Manufacturing Company, New Britain, Conn. Locks, catches, and fasteners. No. 78,644; June 28; Gaz. vol. 155; p. 1039.
Russell & Erwin Manufacturing Company, New Britain, Conn. Harness hardware. No. 78,645; June 28; Gaz. vol. 155; p. 1039.
Russell & Erwin Manufacturing Company, New Britain, Conn. Certain hardware. No. 78,910; July 19; Gaz. vol. 156; p. 794.
Russell, Frank C., Newport News, Va. Soap and paste. No. 80,378; Dec. 13; Gaz. vol. 161; p. 526.
Russell, Frank E., Binghamton, N. Y. Medicinal tablets. No. 78,132; May 31; Gaz. vol. 154; p. 1405.
Rutherford Rubber Company, Rutherford, N. J. Rubber tires and tubing. No. 79,789; Oct. 4; Gaz. vol. 159; p. 239.
S. Allcock & Co., Limited, Redditch, England. Fish-hooks. No. 79,543; Sept. 20; Gaz. vol. 158; p. 697
S. Galeski Optical Co., The, Richmond, Va. Eyeglass-lenses. No. 80,351; Dec. 13; Gaz. vol. 161; p. 525.
S. A. Diamond & Bro. Co., The, New York, N. Y. Hand-bags, satchels, and pocket-books. No. 77,571; Apr. 19; Gaz. vol. 153; p. 819.
S. A. Woods Machine Co., Boston and South Boston, Mass. Woodworking machinery. No. 77,959; May 17; Gaz. vol. 154; p. 832.
S. B. Foot & Co., Red Wing, Minn. Side leathers. No. 78,504; June 21; Gaz. vol. 155; p. 795.
S. B. Foot & Co., Red Wing, Minn. Shoes. No. 80,047; Nov. 1; Gaz. vol. 160; p. 254.
S. C. Smith Company, The, Cleveland, Ohio. Flavoring extracts, pepper, mustard, &c. No. 77,076; Mar. 8; Gaz. vol. 152; p. 483.

Alphabetical list of registrants of trade-marks—Continued.

S. F. Hayward & Co., New York, N. Y. Fire-extinguishing apparatus. No. 77,762; May 3; Gaz. vol. 154; p. 249.
S. P. Pond Company, The, Keokuk, Iowa. Eggs. No. 76,532; Jan. 25; Gaz. vol. 150; p. 1038.
S. P. Pond Company, Keokuk, Iowa. Butter. No. 76,840; Feb. 15; Gaz. vol. 151; p. 728.
S. R. Feil Company, The, Cleveland, Ohio. Veterinary embrocations. No. 77,109; Mar. 8; Gaz. vol. 152; p. 484.
S. R. Feil Company, The, Cleveland, Ohio. Perfumed bath-powder. No. 77,179; Mar. 15; Gaz. vol. 152; p. 728.
S. R. Feil Company, The, Cleveland, Ohio. Veterinary vermifuges, medicated salts, and tonics. No. 77,492; Apr. 12; Gaz. vol. 153; p. 542.
Safety-Armorite Conduit Company, Pittsburg, Pa. Coated pipes and tubes for electric conduits. No. 79,083; Aug. 2; Gaz. vol. 157; p. 204.
Sahlin Company, The, Chicago, Ill. Corsets. No. 79,608; Sept. 20; Gaz. vol. 158; p. 698.
Sakabe & Sekine, New York, N. Y. Brushes. No. 79,862; Oct. 11; Gaz. vol. 159; p. 486.
Sales Company of America, Milwaukee, Wis. Trading-stamps. No. 78,450; June 14; Gaz. vol. 155; p. 550.
Salomon & Co., A. L., New York, N. Y. Lead-pencils. No. 79,790; Oct. 4; Gaz. vol. 159; p. 239.
Salomons, Henry, New York, N. Y. Certain hair goods. No. 77,335; Mar. 29; Gaz. vol. 152; p. 1220.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn. Velvets and plushes. No. 79,863; Oct. 11; Gaz. vol. 159; p. 486.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn. Coats, cloaks, wraps, capes, and dresses. No. 79,864; Oct. 11; Gaz. vol. 159; p. 486.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn. Certain clothing. No. 79,934; Oct. 18; Gaz. vol. 159; p. 744.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn. Certain piece goods. No. 79,999; Oct. 25; Gaz. vol. 159; p. 988.
Samels Bros. & White Canning Co., Chaska, Minn. Canned corn. No. 78,356; June 7; Gaz. vol. 155; p. 302.
Sampson Grove, Boardman, Fla. Citrus fruits and pecan-nuts. No. 80,379; Dec. 13; Gaz. vol. 161; p. 526.
Samson Cordage Works, Boston, Mass. Cotton cords. No. 80,198; Nov. 15; Gaz. vol. 160; p. 770.
Samuel Cabot, Inc., Boston, Mass. Antiseptic. No. 80,267; Nov. 29; Gaz. vol. 160; p. 1267.
Samuel M. Foster Company, Fort Wayne, Ind. Certain clothing. No. 77,336; Mar. 29; Gaz. vol. 152; p. 1220.
Samuels, Louis, New York, N. Y. Ointment, hair-tonic, and salve. No. 77,764; May 3; Gaz. vol. 154; p. 249.
San Telmo Cigar Mfg. Co., Detroit, Mich. Cigars. Nos. 77,572–3; Apr. 19; Gaz. vol. 153; p. 819.
San Telmo Cigar Mfg. Co., Detroit, Mich. Cigars. No. 77,673; Apr. 26; Gaz. vol. 153; p. 1079.
San Telmo Cigar Mfg. Co., Detroit, Mich. Cigars. Nos. 77,765–7; May 3; Gaz. vol. 154; p. 249.
Sana Co., Berrien Springs, Mich. Food sauces and pastes. No. 77,152; Mar. 15; Gaz. vol. 152; p. 728.
Sanborn-Cutting Co., Astoria, Oreg. Canned salmon. No. 79,233; Aug. 16; Gaz. vol. 157; p. 750.
Sanborn, John P., Cleveland, Ohio. Apparatus for treating rectal diseases and constipation. No. 78,280; May 31; Gaz. vol. 154; p. 1409.
Sand Toy Company, Pittsburg, Pa. Sand toys. No. 78,451; June 14; Gaz. vol. 155; p. 550.
Sanitary Construction & Mfg. Co., Terre Haute, Ind. Building-cement. No. 79,012; July 26; Gaz. vol. 156; p. 1063.
Sapa Chemical Co., St. Louis, Mo. Medicinal preparation for external use. No. 77,768; May 3; Gaz. vol. 154; p. 249.
Sardou, Freeman, Topeka, Kans. Canned fruits and vegetables. No. 76,605; Feb. 1; Gaz. vol. 151; p. 190.
Sardou, Freeman, Topeka, Kans. Canned fruits and vegetables. No. 76,797; Feb. 15; Gaz. vol. 151; p. 726.
Sardou, Freeman, Topeka, Kans. Canned fruits and vegetables. No. 77,674; Apr. 26; Gaz. vol. 153; p. 1079.
Sarg, C. F. A., Vienna, Austria-Hungary. Certain chemicals, toilet preparations, and medicines. No. 78,452; June 14; Gaz. vol. 155; p. 550.
Sarnoff Bros., New York, N. Y. Hats and caps. No. 77,675; Apr. 26; Gaz. vol. 153; p. 1079.
Sauer, Frederick H., New York, N. Y. Valves. No. 76,674; Feb. 8; Gaz. vol. 151; p. 446.
Sauers Milling Co., Evansville, Ill. Wheat-flour. No. 78,829; July 12; Gaz. vol. 156; p. 535.
Saugerties Manufacturing Company, Saugerties, N. Y. Loose-leaf books, binders, and bond-paper. No. 80,154; Nov. 8; Gaz. vol. 160; p. 490.
Saunders, Albert G., La Junta, Colo. Liquid finisher for leather boots and shoes. No. 77,141; Mar. 15; Gaz. vol. 152; p. 727.
Sawyer Belting Company, Cleveland, Ohio. Canvas belting. No. 77,077; Mar. 8; Gaz. vol. 152; p. 483.
Sawyer Belting Company, Cleveland, Ohio. Belting. No. 77,078; Mar. 8; Gaz. vol. 152; p. 484.
Sayles, A. H. & F. L., Pascoag, R. I. Worsted and cotton piece goods. No. 77,960; May 17; Gaz. vol. 154; p. 833.
Schaefer, Adam, Lebanon, Ill. Certain mixture. No. 79,156; Aug. 9; Gaz. vol. 157; p. 482.
Schaeffer, John S., Irvington, N. J. Ash-sifters. No. 79,526; Sept. 13; Gaz. vol. 158; p. 479.
Schalkenbach and Budke, Jersey City, N. J. Skylights. No. 78,737; July 5; Gaz. vol. 156; p. 255.
Schandein & Lind, Philadelphia, Pa. Chewing-gum. No. 76,701; Feb. 8; Gaz. vol. 151; p. 446.
Schaudein & Lind, Philadelphia, Pa. Chewing-gum. No. 77,574; Apr. 19; Gaz. vol. 153; p. 819.
Schenck, Henry W., Albany, N. Y. Oleaginous and waxy compound. No. 78,830; July 12; Gaz. vol. 156; p. 535.
Scherer, William J., Rochester, N. Y. Liquid compound for treating the scalp and hair. No. 76,305; Jan. 4; Gaz. vol. 150; p. 262.
Scherwin & Schlütter, Copenhagen, Denmark. Horological instruments. No. 76,643; Feb. 8; Gaz. vol. 151; p. 445.
Schiller Piano Company, Oregon, Ill. Pianos. No. 77,961; May 17; Gaz. vol. 154; p. 833.
Schindler, George W., Washington, D. C. Remedy for corns. No. 80,380; Dec. 13; Gaz. vol. 161; p. 526.
"Schirmherr" Reformschirm-Fabrik Friedlaender & Kaufmann, Frankfort-on-the-Main, Germany. Umbrellas, parasols, walking-sticks, &c. No. 78,133; May 31; Gaz. vol. 154; p. 1405.
Schisgall, Theodor, New York, N. Y. Clocks. No. 79,084; Aug. 2; Gaz. vol. 157; p. 204.
Schisgall, Theodor, New York, N. Y. Clocks. No. 79,157; Aug. 9; Gaz. vol. 157; p. 482.
Schleicher, Charles B., Brady, Nebr. Neck-yokes, neck-yoke and pole-strap connections, &c. No. 80,442; Dec. 20; Gaz. vol. 161; p. 750.
Schlesinger, Harry L., Atlanta, Ga. Candy. No. 78,542; June 21; Gaz. vol. 155; p. 796.
Schlesinger, Maurice F., New York, N. Y. Salve for eczema. No. 78,738; July 5; Gaz. vol. 156; p. 255.
Schloss & Co., Joseph W., New York, N. Y. Supporters for ladies' collars. No. 76,519; Jan. 25; Gaz. vol. 150; p. 1037.
Schloss & Co., Joseph W., New York, N. Y. Collar-supporters. No. 77,337; Mar. 29; Gaz. vol. 152; p. 1220.
Schmelzer, John, Hoboken, N. J. Stomach-bitters. No. 77,190; Mar. 15; Gaz. vol. 152; p. 729.
Schmidt & Co., F. P., Cramer, Ill. Salves and healing-oils. No. 78,647; June 28; Gaz. vol. 155; p. 1039.
Schoenfield, Milton H., Boston, Mass. Stove and metal polish. No. 77,575; Apr. 19; Gaz. vol. 153; p. 819.
Schoolcraft, Elmer E., Kendall, Mich. Medicinal powder. No. 78,453; June 14; Gaz. vol. 155; p. 550.
Schopf, Abraham, Philadelphia, assignor to American Caramel Company, York, Pa. Chocolate drops. No. 79,609; Sept. 20; Gaz. vol. 158; p. 699.
Schorn & Brower, New York, N. Y. Tea, blended coffee, cocoa, spices, flavoring extracts. No. 79,792; Oct. 4; Gaz. vol. 159; p. 239.
Schotten, Julius J., St. Louis, Mo. Condiment of the nature of ground pepper. No. 77,007; Mar. 1; Gaz. vol. 152; p. 226.
Schotten, Julius J., St. Louis, Mo. Roasted coffee. No. 80,002; Oct. 25; Gaz. vol. 159; p. 988.
Schubert Cigar Company, Boston, Mass. Cigars. No. 78,911; July 19; Gaz. vol. 156; p. 794.
Schuhmacher Grocer Company, Lagrange, Tex. Flavoring extracts, blended coffee, spices, &c. No. 77,153; Mar. 15; Gaz. vol. 152; p. 728.
Schut & Kiehn, Inc., New Orleans, La. Logs and lumber. No. 78,739; July 5; Gaz. vol. 156; p. 255.
Schutz, John F., Baltimore, Md. Face balms and lotions. No. 76,481; Jan. 18; Gaz. vol. 150; p. 822.
Schwabacher Bros. & Co. Inc., Seattle, Wash. Pipes. No. 76,306; Jan. 4; Gaz. vol. 150; p. 262.
Schwalbe, Abe, New York, N. Y. Leather shoes. No. 79,699; Sept. 27; Gaz. vol. 158; p. 880.
Schwarzschild & Sulzberger Company, Kansas City, Kans.; Chicago, Ill., and New York, N. Y. Cured and salted meats. No. 80,444; Dec. 20; Gaz. vol. 161; p. 750.
Schweinfurter Präcisions-Kugel-Lager-Werke, Fichtel & Sachs, Schweinfurt, Germany. Certain gears, brakes, and parts thereof. No. 77,142; Mar. 15; Gaz. vol. 152; p. 727.
Schweinfurter Präcisions-Kugel-Lager-Werke, Fichtel & Sachs, Schweinfurt, Germany. Automobiles, cycles, and certain named parts. No. 77,886; May 10; Gaz. vol. 154; p. 512.
Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs, Schweinfurt, Germany. Certain named vehicles and parts thereof. No. 79,372; Aug. 30; Gaz. vol. 157; p. 1240.
Scio Condensed Milk Co., Scio, Oreg. Condensed milk. No. 79,158; Aug. 9; Gaz. vol. 157; p. 482.
Scioto Canning Company, The, Circleville, Ohio. Canned vegetables. Nos. 78,454–6; June 14; Gaz. vol. 155; p. 551.
Scoop Folding Box Company, New York, N. Y. Knock-down boxes or cartons. No. 77,270; Mar. 22; Gaz. vol. 152; p. 955.
Scott, Arthur H., Philadelphia, Pa. Toilet-paper. No. 79,793; Oct. 4; Gaz. vol. 159; p. 239.
Scott Paper Company, Philadelphia, Pa. Toilet-paper. No. 77,046; Mar. 1; Gaz. vol. 152; p. 227.
Scott Paper Company, Philadelphia, Pa. Toilet-paper. No. 80,087; Nov. 1; Gaz. vol. 160; p. 255.

Alphabetical list of registrants of trade-marks—Continued.

Scott Paper Company, Philadelphia, Pa. Toilet-paper. No. 80,381; Dec. 13; Gaz. vol. 161; p. 526.
Scudder Syrup Co., Chicago, Ill. Maple-syrup. No. 76,345; Jan. 4; Gaz. vol. 150; p. 263.
Scudders-Gale Grocer Co., The, St. Louis, Mo. Baking-powder. No. 78,912; July 19; Gaz. vol. 156; p. 794.
Seaboard Rice Milling Co., Galveston, Tex. Rice. No. 77,427; Apr. 5; Gaz. vol. 153; p. 268.
Seaboard Rice Milling Co., Galveston, Tex. Rice. Nos. 77,833–5; May 10; Gaz. vol. 154; p. 510.
Sears & Nichols Company, Chillicothe and Frankfort, Ohio. Canned vegetables, hominy, and sauer-kraut. No. 76,334; Jan. 4; Gaz. vol. 150; p. 263.
Sears & Nichols Company, The, Chillicothe and Frankfort, Ohio. Canned fruits, berries, vegetables, sauer-kraut, and hominy. No. 76,725; Feb. 8; Gaz. vol. 151; p. 447.
Sears & Nichols Company, Chillicothe and Frankfort, Ohio. Canned vegetables. No. 76,841; Feb. 15; Gaz. vol. 151; p. 728.
Sears & Nichols Company, The, Chillicothe, Ohio. Canned foods. No. 79,935; Oct. 18; Gaz. vol. 159; p. 744.
Sears, Roebuck and Co., Chicago, Ill. Cream-separators. No. 79,013; July 26; Gaz. vol. 156; p. 1063.
Sechler & Company, The, Cincinnati, Ohio. Certain vehicles. No. 79,159; Aug. 9; Gaz. vol. 157; p. 483.
Security Ladder Company, The, Goshen, Ind. Step-ladders. No. 80,382; Dec. 13; Gaz. vol. 161; p. 526.
Sedlmayr, Brauerei zum Spaten, Gabriel, Munich, Germany. Beer. No. 79,794; Oct. 4; Gaz. vol. 159; p. 239.
Sedlmayr, Brauerei zum Spaten, Gabriel, Munich, Germany. Beer. No. 80,242; Nov. 22; Gaz. vol. 160; p. 1034.
See & Company, Chicago, Ill. Canned fruits, vegetables, fish, succotash, and pumpkin. No. 76,631; Feb. 1; Gaz. vol. 151; p. 191.
See & Company, Chicago, Ill. Canned fruits and vegetables. No. 77,164; Mar. 15; Gaz. vol. 152; p. 728.
See & Company, Chicago, Ill. Canned fruits, vegetables, and hominy. No. 77,271; Mar. 22; Gaz. vol. 152; p. 955.
Seidman, Arthur, Cleveland, Ohio. Compound for certain purposes. No. 78,134; May 31; Gaz. vol. 154; p. 1405.
Selden Motor Vehicle Co., Rochester, N. Y. Automobiles. No. 78,457; June 14; Gaz. vol. 155; p. 551.
Selig Polyscope Co., Chicago, Ill. Phonographs. No. 76,798; Feb. 15; Gaz. vol. 151; p. 726.
Selig Polyscope Co., Chicago, Ill. Apparatus for the reproduction of moving pictures through electrical impulses. No. 77,165; Mar. 15; Gaz. vol. 152; p. 728.
Selig Polyscope Co., Chicago, Ill. Telephone apparatus. No. 77,493; Apr. 12; Gaz. vol. 153; p. 542.
Selig Polyscope Co., Chicago, Ill. Telephone apparatus. No. 77,962; May 17; Gaz. vol. 154; p. 833.
Selig Polyscope Company, The, Chicago, Ill. Motion-picture films and projecting-machines therefor. No. 80,383; Dec. 13; Gaz. vol. 161; p. 526.
Sellars and Patrick, South Lawrence, Mass. Soda-water syrups. No. 79,160; Aug. 9; Gaz. vol. 157; p. 483.
Seminole Chemical Company, St. Louis, Mo. Flavoring extract. No. 78,458; June 14; Gaz. vol. 155; p. 551.
Seminole Condensed Milk Co., Holland Patent, N. Y. Evaporated milk. No. 79,458; Sept. 6; Gaz. vol. 158; p. 225.
Sénégas, Jean, New York, N. Y. Toilet preparations. No. 78,649; June 28; Gaz. vol. 155; p. 1039.
Seng Company, The, Chicago, Ill. Pedestal-locking devices for pedestal extension-tables. No. 76,405; Jan. 11; Gaz. vol. 150; p. 566.
Serum-Laboratorium Ruete-Enoch, Hamburg, Germany. Animal-serum. No. 79,700; Sept. 27; Gaz. vol. 158; p. 880.
Seydoux & Cie., Paris, France. Certain textiles. No. 78,135; May 31; Gaz. vol. 154; p. 1405.
Shapiro, Simon, New York, N. Y. Dress-skirts. No. 78,136; May 31; Gaz. vol. 154; p. 1405.
Sharp, Barrington S., Atlanta, Ga. Hosiery. No. 77,836; May 10; Gaz. vol. 154; p. 510.
Sharp & Dohme, Baltimore, Md. Liquid concentrated preparation of ergot. No. 76,553; Jan. 25; Gaz. vol. 150; p. 1038.
Sharp & Dohme, Baltimore, Md. Disinfecting fluid. No. 76,842; Feb. 15; Gaz. vol. 151; p. 728.
Sharp & Dohme, Baltimore, Md. Granular effervescent salt. No. 77,837; May 10; Gaz. vol. 154; p. 510.
Sharp & Dohme, Baltimore, Md. Remedy for the treatment of malaria. No. 79,610; Sept. 20; Gaz. vol. 158; p. 699.
Shattuck-George Iron Co., Wichita, Kans. Doubletrees, swingletrees, and wood parts for the same. No. 79,936; Oct. 18; Gaz. vol. 159; p. 744.
Shattuck-George Iron Co., Wichita, Kans. Vehicle parts and trimmings. No. 80,384; Dec. 13; Gaz. vol. 161; p. 526.
Shawmut Tire Company, Boston, Mass. Rubber tires. No. 77,095; Mar. 8; Gaz. vol. 152; p. 484.
Sheldon Axle Company, Wilkes-Barre, Pa. Vehicle-axles, not including bicycle-axles. No. 76,379; Jan. 11; Gaz. vol. 150; p. 566.
Sherman Bros. & Co., Chicago, Ill. Coffee. No. 76,606; Feb. 1; Gaz. vol. 151; p. 190.
Sherman Bros. & Co., Chicago, Ill. Roasted coffee and chicory. No. 77,338; Mar. 29; Gaz. vol. 152; p. 1220.
Sherman, Samuel C., Portland, Oreg. Remedy for inebriacy. No. 78,913; July 19; Gaz. vol. 156; p. 794.
Sherman & Sons Co., New York, N. Y. Linen-thread cambric. No. 77,576; Apr. 19; Gaz. vol. 153; p. 819.
Sherman & Sons Co., New York, N. Y. Long-cloth. No. 77,838; May 10; Gaz. vol. 154; p. 510.
Sherman & Sons Co., New York, N. Y. Laces. No. 78,357; June 7; Gaz. vol. 155; p. 302.
Sherwin, Mark, North Berkeley, Cal. Shampoo preparation. No. 77,339; Mar. 29; Gaz. vol. 152; p. 1220.
Shipman, Benjamin M., New York, N. Y. Canned sardines. No. 77,494; Apr. 12; Gaz. vol. 153; p. 542.
Shipman, Benjamin M., New York, N. Y. Canned sardines. No. 78,460; June 14; Gaz. vol. 155; p. 551.
Shipp, Ely R., assignor to Robert E. Brand, Caspar, Wyo. Artificial stone. No. 79,304; Aug. 23; Gaz. vol. 157; p. 996.
Shoaf, Charles J., Rocky Mount, Va. Natural mineral water. No. 78,740; July 5; Gaz. vol. 156; p. 255.
Shoyer & Co., D. W., New York, N. Y. Hammocks. No. 76,380; Jan. 11; Gaz. vol. 150; p. 566.
Shreve & Company, San Francisco, Cal. Certain precious-metal ware. No. 78,358; June 7; Gaz. vol. 155; p. 302.
Shull-Day Co., Tacoma, Wash. Certain clothing. No. 79,161; Aug. 9; Gaz. vol. 157; p. 483.
Siebert-Welch Co., Columbus, Ohio. Certain electric devices. No. 76,799; Feb. 15; Gaz. vol. 151; p. 726.
Siegel, June V., New York, N. Y. Veils. No. 78,831; July 12; Gaz. vol. 156; p. 535.
Sig. C. Mayer & Co. Inc., Philadelphia, Pa. Cigars. No. 77,577; Apr. 19; Gaz. vol. 153; p. 819.
Silberman, Tanchum, Baltimore, Md. Undershirts and drawers, night-robes, and pajamas. No. 76,461; Jan. 18; Gaz. vol. 150; p. 822.
Silloway, Ella A., New York, N. Y. Corsets and corset-waists. No. 76,675; Feb. 8; Gaz. vol. 151; p. 446.
Silverman, Sime, New York, N. Y. Weekly newspapers and magazines. No. 76,460; Jan. 18; Gaz. vol. 150; p. 822.
Simon, Kassel, New York, N. Y. Cotton piece goods. No. 80,155; Nov. 8; Gaz. vol. 160; p. 490.
Simons Brick Company, Los Angeles, Cal. Certain building materials. No. 80,156; Nov. 8; Gaz. vol. 160; p. 490.
Simpson, Orville, Cincinnati, Ohio. Grinding-mills. No. 77,180; Mar. 15; Gaz. vol. 152; p. 728.
Simpson & Sons, Wm., Philadelphia, Pa. Lawn-mowers. No. 78,650; June 28; Gaz. vol. 155; p. 1039.
Sims-Jeffries Company, The, Columbus, Ohio. Chocolate candies. No. 77,692; Apr. 26; Gaz. vol. 153; p. 1079.
Sims, Pleasant M., Augusta, Ga. Hair-tonic. No. 79,701; Sept. 27; Gaz. vol. 158; p. 880.
Singer Manufacturing Company, The, New York, N. Y., and Elizabeth, N. J. Hand sewing-needles. No. 79,937; Oct. 18; Gaz. vol. 159; p. 744.
Sinsheimer, Lester, New York, N. Y. Knit underwear and hosiery. No. 79,234; Aug. 16; Gaz. vol. 157; p. 750.
Sirolin Co. (See Hoffmann-La Roche Chemical Works, assignor.)
Skidoo Remedy Company (by change of name now Lee Remedy Company), Seattle, Wash. Remedy for chills, fever, and ague. No. 79,611; Sept. 20; Gaz. vol. 158; p. 699.
Slaker, William V., Chicago, Ill. Foot remedy. No. 79,528; Sept. 13; Gaz. vol. 158; p. 479.
Slazenger & Sons, London, England. Certain sporting goods. No. 79,865; Oct. 11; Gaz. vol. 159; p. 486.
Sligar & Sons, G. M., Columbus, Ohio. Remedies for hog-cholera. No. 77,839; May 10; Gaz. vol. 154; p. 510.
Sloan, Earl S., Boston, Mass. Medicines. No. 76,554; Jan. 25; Gaz. vol. 150; p. 1038.
Sloan, John Q., Hasbrouck Heights, N. J., and New York, N. Y. Artificial flowers. No. 78,832; July 12; Gaz. vol. 156; p. 535.
Slothower, Cosmus C., Harrisburg, Pa. Liniment and cough-syrup. No. 79,373; Aug. 30; Gaz. vol. 157; p. 1240.
Smith, Daniel H., Vandergrift Heights, Pa. Furniture-polish. No. 77,578; Apr. 19; Gaz. vol. 153; p. 819.
Smith, Jeremiah P., Lincolntown, N. C. Remedy for lung diseases. No. 80,292; Nov. 29; Gaz. vol. 160; p. 1268.
Smith, John H., Detroit, Mich. Certain foods. No. 80,445; Dec. 20; Gaz. vol. 161; p. 750.
Smith, Joshua G., St. Paul, Minn. Candies. No. 78,833; July 12; Gaz. vol. 156; p. 535.
Smith, Kline & French Co., Philadelphia, Pa. Egg emulsion of cod-liver oil. No. 78,359; June 7; Gaz. vol. 155; p. 302.
Smith, Kline & French Co., Philadelphia, Pa. Chamois-skins. No. 78,834; July 12; Gaz. vol. 156; p. 535.
Smith, Kline & French Co., Philadelphia, Pa. Antiseptic powder. No. 80,158; Nov. 8; Gaz. vol. 160; p. 490.
Smith, Kline & French Company, Philadelphia, Pa. Tooth-brushes. No. 78,741; July 5; Gaz. vol. 156; p. 255.
Smith Kline & French Company, Philadelphia, Pa. Tooth-brushes. No. 78,914; July 19; Gaz. vol. 156; p. 794.

Alphabetical list of registrants of trade-marks—Continued.

Smith, Sidney L., St. Louis, Mo. Double-bottom attachments for washboilers. No. 80,003; Oct. 25; Gaz. vol. 159; p. 988.
Smith & Son, W. H., London, England. Certain paper and stationery. No. 79,162; Aug. 9; Gaz. vol. 157; p. 483.
Smith, Walter E., Boston, Mass. Catnip, catnip preparation, &c. No. 80,293; Nov. 29; Gaz. vol. 160; p. 1268.
Smith, William H. J., Buffalo, N. Y. Toilet preparations and hair-tonic. No. 78,915; July 19; Gaz. vol. 156; p. 794.
Smith's Original Remedy Company, Brooklyn, N. Y. Remedies for the diseases of horses. No. 80,159; Nov. 8; Gaz. vol. 160; p. 490.
Smith's Phonograph Co., Oklahoma, Okla. Labels. No. 77,579; Apr. 19; Gaz. vol. 153; p. 819.
Smysor, Abraham C., Cincinnati, Ohio. Tooth-wash. No. 79,702; Sept. 27; Gaz. vol. 158; p. 880.
Snead & Meguire Coal Company, The, Louisville, Ky. Coal. No. 78,211; May 31; Gaz. vol. 154; p. 1407.
Snell & Atherton, Incorporated, Brockton, Mass. Certain tools. No. 76,311; Jan. 4; Gaz. vol. 150; p. 262.
Snyder-Chaffee Co., The, Columbus, Ohio. Chocolate candies. No. 79,449; Sept. 6; Gaz. vol. 158; p. 225.
Snyder, William D., Sidney, Ohio. Antiseptic root-canal filling. No. 78,652; June 28; Gaz. vol. 155; p. 1039.
Sociedad Vinicola S. & L. Durlacher, Hamburg, Germany. Still wine. No. 76,926; Feb. 22; Gaz. vol. 151; p. 1011.
Società Ceramica Richard Ginori, Milan, Italy. Chinaware for table use. No. 77,143; Mar. 15; Gaz. vol. 152; p. 727.
Société Anonyme des Anciens Etablissements J. Lafrique, Paris, France. Skins to be used for fur goods. No. 78,742; July 5; Gaz. vol. 156; p. 255.
Societe Anonyme Des Matieres Colorantes & Produits Chimiques de Saint-Denis, Paris, France. Coal-tar dyes and coloring-matters. No. 76,726; Feb. 8; Gaz. vol. 151; p. 447.
Société Anonyme des Mines et Fonderies de Zinc de la Vieille Montagne, Angleur, Belgium. Spelter. No. 79,305; Aug. 23; Gaz. vol. 157; p. 996.
Société Anonyme des Mines et Fonderies de Zinc de la Vieille Montagne, Angleur, Belgium. Zinc-white. No. 79,306; Aug. 23; Gaz. vol. 157; p. 996.
Societe Anonyme Des Plaques & Papiers Photographiques, A. Lumiere & Ses Fils, Lyon, France; Burlington, Vt., and New York, N. Y. Photographic developer. No. 76,555; Jan. 25; Gaz. vol. 150; p. 1038.
Société Cinématographique Des Auteurs et Gens de lettres, Paris, France. Kinematographic films. No. 79,085; Aug. 2; Gaz. vol. 157; p. 204.
Société des Automobiles Brasier, Ivry, France. Automobiles. No. 78,281; May 31; Gaz. vol. 154; p. 1409.
Société Distilleries Francaises De La Vallée Des Roses, Paris, France. Perfumes. No. 80,088; Nov. 1; Gaz. vol. 160; p. 255.
Société en nom collectif Dolat et Cie., Paris, France. Dressed hare and rabbit skins for fur garments. No. 79,014; July 26; Gaz. vol. 156; p. 1063.
Società. Prodti. Chimco. Farmacci. A. Bertelli & C., Milan, Italy. Cod-liver and tar oil. No. 79,464; Sept. 13; Gaz. vol. 158; p. 477.
Solberger, John, Okemah, Okla. Remedy for tuberculosis. No. 79,163; Aug. 9; Gaz. vol. 157; p. 483.
Soloman, David L., St. Louis, Mo. Gas-tanks. No. 79,015; July 26; Gaz. vol. 156; p. 1063.
Soloman, David L., St. Louis, Mo. Chemical solvents. No. 80,160; Nov. 8; Gaz. vol. 160; p. 490.
Solomon, Abraham, New York, N. Y. Ladies' outer waists and shirt-waists. No. 77,840; May 10; Gaz. vol. 154; p. 510.
Sommers, David, Shamokin, Pa. Boots and shoes. No. 77,769; May 3; Gaz. vol. 154; p. 249.
Sorenson, John S., New York, N. Y. Glue. No. 76,462; Jan. 18; Gaz. vol. 150; p. 822.
Sour Krout Candy Co., Chicago, Ill. Candy. No. 80,243; Nov. 22; Gaz. vol. 160; p. 1034.
South Bend Remedy Company, South Bend, Ind. Medicinal remedy for female diseases. No. 76,556; Jan. 25; Gaz. vol. 150; p. 1038.
South Texas Grain Company, Houston, Tex. Grain and mixed food for stock. No. 80,089; Nov. 1; Gaz. vol. 160; p. 255.
Southern Belting Company of New Orleans, New Orleans, La. Leather belting. No. 78,543; June 21; Gaz. vol. 155; p. 796.
Southern Cotton Oil Company, Jersey City, N. J.; New York, N. Y.; Savannah, Ga., and Gretna, La. Cotton-seed oils intended for use as food. No. 77,272; Mar. 22; Gaz. vol. 152; p. 955.
Southern Queen Range Mfg. Co., Chattanooga, Tenn. Certain stoves and heating apparatus. No. 76,312; Jan. 4; Gaz. vol. 150; p. 262.
Southern Specialty Co., The, Franklin, Ky. Detergent. No. 78,282; May 31; Gaz. vol. 154; p. 1409.
Southwestern Paper Co., Dallas, Tex. Writing-paper. No. 77,841; May 10; Gaz. vol. 154; p. 510.
Southwestern Paper Company, Dallas, Tex. Book-paper. No. 78,653; June 28; Gaz. vol. 155; p. 1039.
Southwestern Remedy Company, Dallas, Tex. Remedy for liver complaints. No. 79,016; July 26; Gaz. vol. 156; p. 1063.
Sparks Milling Company, Alton, Ill. Wheat-flour. No. 79,235; Aug. 16; Gaz. vol. 157; p. 750.
Sparks Milling Company, Alton, Ill., and Terre Haute, Ind. Wheat-flour. No. 79,867; Oct. 11; Gaz. vol. 159; p. 486.
Special Glove and Notion Company, Pittsburg, Pa. Gloves and hand-leathers. No. 79,797; Oct. 4; Gaz. vol. 159; p. 239.
Sperry Flour Company, San Francisco, Cal. Certain food. No. 77,495; Apr. 12; Gaz. vol. 153; p. 543.
Spiegel Brothers, Chicago, Ill. Prepared ostrich-plumes, &c. No. 78,544; June 21; Gaz. vol. 155; p. 796.
Spokane Dry Goods Company, Spokane, Wash. Overalls. No. 79,374; Aug. 30; Gaz. vol. 157; p. 1240.
Spokane Extract & Spice Company, Spokane, Wash. Certain foods. No. 77,963; May 17; Gaz. vol. 154; p. 833.
Sprague Electric Company, New York, N. Y. Electric outlet-boxes. No. 77,887; May 10; Gaz. vol. 154; p. 512.
Sprague Warner & Co. (See Hunt Brothers Company, assignor.)
Spring, Edwin W., London, England. Razors and razor-blades. No. 78,212; May 31; Gaz. vol. 154; p. 1407.
Springfield Provision Co., Nashua, N. H., and Springfield, Mass. Lard. No. 80,326; Dec. 6; Gaz. vol. 161; p. 263.
Springfield Provision Company, Chicopee, Mass. Hams, bacon, pork sausage, &c. No. 79,375; Aug. 30; Gaz. vol. 157; p. 1240.
Square Paint Company, The, New Orleans, La. Ready-mixed paints. No. 79,703; Sept. 27; Gaz. vol. 158; p. 880.
St. Francisville Canning Company, near St. Francisville, Ill. Certain foods. No. 77,008; Mar. 1; Gaz. vol. 152; p. 226.
St. Hubert, Jules C. de, Hollister, Cal. Tonic port. No. 77,763; May 3; Gaz. vol. 154; p 249.
St. Louis Coffee & Spice Mills, St. Louis, Mo. Baking-powder and baking-soda. No. 78,214; May 31; Gaz. vol. 154; p. 1407.
St. Mungo Manufacturing Company, Glasgow, Scotland. Golf-balls. No. 79,011; July 26; Gaz. vol. 156; p 1063.
Stalker Manufacturing Company, The, New York, N. Y. Driving-bits. No. 78,213; May 31; Gaz. vol. 154; p. 1407.
Stamford Foundry Company, Stamford, Conn. Heating-stoves. No. 76,893; Feb. 22; Gaz. vol. 151; p. 1010.
Standard Brewing Company, Rochester, N. Y. Ales. No. 78,743; July 5; Gaz. vol. 156; p. 255.
Standard Button Company, Attleboro, Mass. Jewelry. No. 77,676; Apr. 26; Gaz. vol. 153; p. 1079.
Standard Button Company, Attleboro, Mass. Ornamental chains and chain ornaments. No. 77,677; Apr. 26; Gaz. vol. 153; p. 1079.
Standard Chemical Company, Bayonne, N. J. Electrical insulating compositions and materials. No. 79,868; Oct. 11; Gaz. vol. 159; p. 486.
Standard Cigar Company of Pittsburgh, Pa., Pittsburg, Pa. Cigars, tobies, and cheroots. No. 76,800; Feb. 15; Gaz. vol. 151; p. 727.
Standard Compressed Yeast Company, Baltimore, Md. Compressed yeast. No. 79,704; Sept. 27; Gaz. vol. 158; p. 880.
Standard Cube Bouillon Co., New York, N. Y. Extract of meats and vegetables for soups. No. 77,842; May 10; Gaz. vol. 154; p. 510.
Standard Guano and Chemical Manufacturing Company, New Orleans, La. Fertilizers. No. 77,166; Mar. 15; Gaz. vol. 152; p. 728.
Standard Improved Elastic Paint Company, The, Marietta, Ohio. Mixed paint. No. 78,138; May 31; Gaz. vol. 154; p. 1405.
Standard Nitrogen Company, New York, N. Y. Nitrogen-gathering bacteria for a fertilizer. No. 78,835; July 12; Gaz. vol. 156; p. 535.
Standard Oil Co. of New York, New York, N. Y. Petroleum for illuminating, heating, and power purposes. No. 76,801; Feb. 15; Gaz. vol. 151; p. 727.
Standard Oil Co. of New York, New York, N. Y. Refined petroleum. No. 78,545; June 21; Gaz. vol. 155; p. 796.
Standard Oil Co. of New York, New York, N. Y. Lubricating-oils. Nos. 80,245–8; Nov. 22; Gaz. vol. 160; p. 1034.
Standard Oil Co. of New York, New York, N. Y. Lubricating-oils. No. 80,385; Dec. 13; Gaz. vol. 161; p. 526.
Standard Oil Co. of New York, New York, N. Y. Refined petroleum. No. 80,386; Dec. 13; Gaz. vol. 161; p. 526.
Standard Oil Company, Jersey City, N. J. Paraffin. No. 76,659; Feb. 8; Gaz. vol. 151; p. 445.
Standard Oil Company of New York, New York, N. Y. Naphtha and gasolene. No. 79,939; Oct. 18; Gaz. vol. 159; p. 744.
Standard Playing Card Co., Chicago, Ill. Playing-cards. No. 79,307; Aug. 23; Gaz. vol. 157; p. 996.
Standard Sewing Machine Company, The, Cleveland, Ohio. Sewing-machines and attachments. No. 79,164; Aug. 9; Gaz. vol. 157; p. 483.
Standard Sewing Machine Company, The, Cleveland, Ohio. Sewing-machines and attachments. No. 79,530; Sept. 13; Gaz. vol. 158; p. 479.
Standard Specialties Company, Denver, Colo. Liquid cleaning and polishing compound. No. 77,340; Mar. 29; Gaz. vol. 152; p. 1220.

Alphabetical list of registrants of trade-marks—Continued.

Standard Thermometer Co., Boston, Mass. Thermometers and speedometers. No. 77,144; Mar. 15; Gaz. vol. 152; p. 727.
Standard Typewriter Co., Groton, N. Y. Type-writing machines and parts thereof. No. 80,090; Nov. 1; Gaz. vol. 160; p. 255.
Standard Varnish Works, New York, N. Y. Preparation to be used as a first coater. No. 76,979; Mar. 1; Gaz. vol. 152; p. 226.
Stanley-G. I. Electric Manufacturing Company, Pittsfield, Mass. Certain electrical apparatus. No. 76,822; Feb. 15; Gaz. vol. 151; p. 727.
Stanley Rule & Level Co., New Britain, Conn. Screw-drivers. No. 78,360; June 7; Gaz. vol. 155; p. 302.
Stanley Works, The, New Britain, Conn. Steel hinges. No. 76,520; Jan. 25; Gaz. vol. 150; p. 1037.
Stanley Works, New Britain, Conn. Steel hinges. No. 78,461; June 14; Gaz. vol. 155; p. 551.
Stanley Works, The, New Britain, Conn. Wrought-steel butt-hinges. Nos. 78,654–8; June 28; Gaz. vol. 155; p. 1039.
Stanley Works, The, New Britain, Conn. Wrought-steel butt-hinges. No. 79,236; Aug. 16; Gaz. vol. 157; p. 750.
Stanley Works, New Britain, Conn. Butts or hinges. No. 80,387; Dec. 13; Gaz. vol. 161; p. 526.
Stanz-und Emaillirwerke. vormals Carl Thiel & Söhne, Actien-Gesellschaft, Lübeck, Germany. Enameled metal ware and household and cooking utensils. No. 80,249; Nov. 22; Gaz. vol. 160; p. 1034.
Star Brass Manufacturing Company, Boston, Mass. Valves and parts thereof. No. 78,283; May 31; Gaz. vol. 154; p. 1409.
Star Expansion Bolt Company, New York, N. Y. Certain metal articles. No. 80,004; Oct. 25; Gaz. vol. 159; p. 988.
Star Expansion Bolt Company, New York, N. Y. Drills and screw-drivers. No. 80,446; Dec. 20; Gaz. vol. 161; p. 750.
Star Pin Company, The, Shelton, Conn. Toilet-pins. No. 77,964; May 17; Gaz. vol. 154; p. 833.
Star Rubber Co., The, Akron, Ohio. Rubber nipples. No. 80,327; Dec. 6; Gaz. vol. 161; p. 264.
Stark Distillery Co., St. Louis, Mo. Distilled peppermint cordial. No. 78,546; June 21; Gaz. vol. 155; p. 797.
Starks, Richard S., Midway, Ky. Corn and bunion plasters. No. 79,165; Aug. 9; Gaz. vol. 157; p. 483.
Starlite Manufacturing Company, New York, N. Y. Toy fireworks. No. 78,659; June 28; Gaz. vol. 155; p. 1039.
Staudt, Rudolph, Fredericksburg, Tex. Salve. No. 76,557; Jan. 25; Gaz. vol. 150; p. 1038.
Staunton, Harry A., Philadelphia, Pa. Hair-nets and veils. No. 76,660; Feb. 8; Gaz. vol. 151; p. 445.
Stearns & Foster, The, Cincinnati, Ohio. Cotton wadding and batting. Nos. 79,705–6; Sept. 27; Gaz. vol. 158; p. 881.
Steel Protected Concrete Company, Huron, S. D., and Philadelphia, Pa. Metal corner-bars for concrete curbs. No. 76,863; Feb. 22; Gaz. vol. 151; p. 1009.
Steimer & Moore Whip Co., Westfield, Mass. Whips. Nos. 76,381–4; Jan. 11; Gaz. vol. 150; p. 566.
Stein & Co., Nathan, Pittsburg, Pa. Certain clothing. No. 79,017; July 26; Gaz. vol. 156; p. 1063.
Stein & Co., S., New York, N. Y. Woolen piece goods. No. 80,388; Dec. 13; Gaz. vol. 161; p. 526.
Steinfirst, Louis, Pittsburg, Pa. Boiler compounds. No. 77,167; Mar. 15; Gaz. vol. 152; p. 728.
Steinhardter & Nordlinger, New York, N. Y. Canned mushrooms. No. 77,843; May 10; Gaz. vol. 154; p. 510.
Steinwender-Stoffregen Coffee Co., St. Louis, Mo. Roasted coffee. No. 76,533; Jan. 25; Gaz. vol. 150; p. 1038.
Steinwender-Stoffregen Coffee Co., St. Louis, Mo. Roasted coffee. No. 77,965; May 17; Gaz. vol. 154; p. 833.
Stephenson, John W., Little Falls, Minn. Wheat-flour. No. 79,531; Sept. 13; Gaz. vol. 158; p. 479.
Sterling Borax Company, Los Angeles, Cal., and Chicago, Ill. Borax. No. 80,005; Oct. 25; Gaz. vol. 159; p. 988.
Sterling Pin Co., The, Derby, Conn. Hooks and eyes for garments. No. 78,362; June 7; Gaz. vol. 155; p. 303.
Sterling Pin Co., The, Derby, Conn. Hooks and eyes. No. 78,547; June 21; Gaz. vol. 155; p. 797.
Stern Bros. & Company, New York, N. Y. Collar-buttons made of precious metal. No. 77,059; Mar. 8; Gaz. vol. 152; p. 483.
Stern & Sons, Bernhard, Milwaukee, Wis. Wheat-flour. No. 77,441; Apr. 12; Gaz. vol. 153; p. 541.
Stetson-Barret Co., Los Angeles, Cal. Canned pears. No. 80,328; Dec. 6; Gaz. vol. 161; p. 264.
Stevens & Bros., Chas. A., Chicago, Ill. Corsets. No. 76,738; Feb. 15; Gaz. vol. 151; p. 725.
Stevens, John H., Newark and South Orange, N. J. Perfumes, dentifrices, and facial lotion. No. 79,167; Aug. 9; Gaz. vol. 157; p. 483.
Stilwell Van Demark Co., New York, N. Y. Electric-arc lamps and supplies for same. No. 77,580; Apr. 19; Gaz. vol. 153; p. 819.
Stirn, L. & E., New York, N. Y. Malines. No. 76,534; Jan. 25; Gaz. vol. 150; p. 1038.
Stirn, L. & E., New York, N. Y. Waterproof tulle nets and chiffon. No. 80,447; Dec. 20; Gaz. vol. 161; p. 750.
Stock & Krause, New York, N. Y. Medicines. No. 78,548; June 21; Gaz. vol. 155; p. 797.
Stockmen's Food Company, The. (See C. R. Groff, assignor.)
Stockton Paint Company, The, Stockton, Cal. Painters' materials. No. 79,237; Aug. 16; Gaz. vol. 157; p. 750.
Stokely Bros. & Co., Newport, Tenn. Canned lye-hominy. No. 78,462; June 14; Gaz. vol. 155; p. 551.
Stoll, Ernst, Markneukirchen, Germany. Strings for musical instruments. No. 80,497; Dec. 27; Gaz. vol. 161; p. 1040.
Stone-Ordean-Wells Company, Duluth, Minn. Certain foods. No. 76,313; Jan. 4; Gaz. vol. 150; p. 262.
Stone-Ordean-Wells Company, Duluth, Minn. Certain foods. No. 76,496; Jan. 18; Gaz. vol. 150; p. 823.
Stone & Son, A. L., New York, N. Y. Children's outer wash-suits. No. 77,678; Apr. 26; Gaz. vol. 153; p. 1079.
Stott, David, Detroit, Mich. Wheat-flour. No. 77,341; Mar. 29; Gaz. vol. 152; p. 1220.
Stott, David, Detroit, Mich. Wheat-flour. No. 78,660; June 28; Gaz. vol. 155; p. 1039.
Stott, David, Detroit, Mich. Wheat-flour. No. 79,941; Oct. 18; Gaz. vol. 159; p. 744.
Strasburger & Co., Byron L., New York, N. Y. Watches and watch-movements. No. 76,644; Feb. 8; Gaz. vol. 151; p. 445.
Strasburger & Co., Byron L., New York, N. Y. Watches and watch-movements. No. 76,774; Feb. 15; Gaz. vol. 151; p. 726.
Stratford Oyster Company, Bridgeport, Conn. Fresh oysters. No. 77,273; Mar. 22; Gaz. vol. 152; p. 955.
Strausbaugh, Jeremiah W., Strasburg, Va. Remedy for certain diseases. No. 76,980; Mar. 1; Gaz. vol. 152; p. 226.
Strauss Bros. & Company, New York, N. Y. Veilings. No. 79,942; Oct. 18; Gaz. vol. 159; p. 744.
Strauss & Co., London, England. Straight Irish whisky. No. 77,110; Mar. 8; Gaz. vol. 152; p. 484.
Strauss & Co., London, England. Holland gin. No. 78,549; June 21; Gaz. vol. 155; p. 797.
Strauss & Co., Wm. L., New York, N. Y. Baby-pacifiers. No. 78,463; June 14; Gaz. vol. 155; p. 551.
Strauss, Daniel, New York, N. Y. Veilings, nettings, maline, tulle, and chiffons. No. 77,844; May 10; Gaz. vol. 154; p. 510.
Strawbridge & Clothier, Philadelphia, Pa. Muslins. No. 76,894; Feb. 22; Gaz. vol. 151; p. 1010.
Strawsons & Company, London, England. Sulfate of copper. No. 78,139; May 31; Gaz. vol. 154; p. 1405.
Strawsons & Company, London, England. Insect-banding for trees. No. 78,464; June 14; Gaz. vol. 155; p. 551.
Strawsons & Company, London, England. Fumigating compound. No. 79,308; Aug. 23; Gaz. vol. 157; p. 996.
Street, Gustavus C., Houston, Tex. Milk and cream. No. 76,632; Feb. 1; Gaz. vol. 151; p. 191.
Street & Smith, New York, N. Y. Weekly periodical devoted to fiction. No. 77,581; Apr. 19; Gaz. vol. 153; p. 819.
Stretton & Sons, S. D., Leicester, England. Knitted goods. No. 79,879; Oct. 11; Gaz. vol. 159; p. 487.
Strohmeyer & Arpe Company, New York, N. Y. Canned macaroni, tomato sauce, vegetables, and fish. No. 76,702; Feb. 8; Gaz. vol. 151; p. 447.
Strohmeyer & Arpe Company, New York, N. Y. Canned sardines. No. 77,679; Apr. 26; Gaz. vol. 153; p. 1079.
Strong, Carlisle & Hammond Co., Cleveland, Ohio. Certain steam specialties. No. 76,802; Feb. 15; Gaz. vol. 151; p. 727.
Strong, Carlisle & Hammond Co., The, Cleveland, Ohio. Engine-governors, engine-stops, and pump-governors. No. 78,215; May 31; Gaz. vol. 154; p. 1407.
Strong & Company, Jos., Terre Haute, Ind. Roasted coffee. No. 78,744; July 5; Gaz. vol. 156; p. 255.
Stroud & Fletcher, Nashville, Tenn. Baking-soda, bluing, castor-oil, and quinin. No. 77,680; Apr. 26; Gaz. vol. 153; p. 1079.
Stuart, William J., Peru, Ind. Poultry insect-destroyer. No. 78,465; June 14; Gaz. vol. 155; p. 551.
Stuebe Bros. & Noack, New Ulm, Minn. Dressed poultry. No. 77,845; May 10; Gaz. vol. 154; p. 510.
Suchard, S. A., Serrieres, Switzerland. Cocoa. No. 77,966; May 17; Gaz. vol. 154; p. 833.
Suffolk Peanut Company, The, Suffolk, Va. Peanuts. No. 79,532; Sept. 13; Gaz. vol. 158; p. 479.
Sugar Beet Products Co., Caro, Mich. Compound for the removal of scale from boilers. No. 79,450; Sept. 6; Gaz. vol. 158; p. 225.
Sulphume Company, Boston, Mass. Hair-tonic, face-powder, and cold-cream. No. 80,498; Dec. 27; Gaz. vol. 161; p. 1040.
Summers, Robert L., Brookline, Mass. Leather boots and shoes. No. 78,216; May 31; Gaz. vol. 154; p. 1407.
Sumter Telephone Manufacturing Co., Sumter, S. C. Ligntning-arresters. No. 76,574; Feb. 1; Gaz. vol. 151; p. 189.
Sunlit Fruit Company, West Berkeley, Cal. Jams, jellies, marmalades, and mince-meat. No. 78,466; June 14; Gaz. vol. 155; p. 551.
Sunshine Cloak and Suit Company, The, Cleveland, Ohio. Ladies', misses', and children's cloaks and outer suits. No. 76,981; Mar. 1; Gaz. vol. 152; p. 226.

Alphabetical list of registrants of trade-marks—Continued.

Superior Thread & Yarn Co., Wilmington, Del., and New York, N. Y. Threads and yarns. No. 80,448; Dec. 20; Gaz. vol. 161; p. 750.
Supplee Hardware Company, Philadelphia, Pa. Shovels, spades, and scoops. No. 79,943; Oct. 18; Gaz. vol. 159; p. 744.
Susquehanna Silk Mills, New York, N. Y. Silk piece goods and silk-mixed piece goods. No. 76,895; Feb. 22; Gaz. vol. 151; p. 1010.
Susquehanna Silk Mills, New York, N. Y. Silk and silk-mixed piece goods. Nos. 77,582–3; Apr. 19; Gaz. vol. 153; p. 819.
Susquehanna Silk Mills, New York, N. Y. Certain clothing. No. 78,140; May 31; Gaz. vol. 154; p. 1405.
Susquehanna Silk Mills, New York, N. Y. Certain furnishings. No. 78,141; May 31; Gaz. vol. 154; p. 1405.
Susquehanna Silk Mills, New York, N. Y. Certain furnishings. No. 78,363; June 7; Gaz. vol. 155; p. 303.
Susquehanna Silk Mills, New York, N. Y. Certain clothing. No. 78,467; June 14; Gaz. vol. 155; p. 551.
Sutton Sons & Co., G. F., London, England. Certain foods. No. 78,284; May 31; Gaz. vol. 154; p. 1409.
Svensson, Claes A., Buffalo, N. Y. Linemen's wire-grips. No. 79,170; Aug. 9; Gaz. vol. 157; p. 483.
Swanson-Ericson Manufacturing Company, Chicago, Ill. Washing-machines. No. 80,161; Nov. 8; Gaz. vol. 160; p. 490.
Swedish Iron & Steel Corporation, New York, N. Y. Bar-steel. No. 78,551; June 21; Gaz. vol. 155; p. 797.
Swedish Iron & Steel Corporation, New York, N. Y. Anvils. No. 79,376; Aug. 30; Gaz. vol. 157; p. 1240.
Swedish Iron & Steel Corporation, New York, N. Y., and New Orleans, La. Bar-steel. No. 79,612; Sept. 20; Gaz. vol. 158; p. 699.
Swetland & Son, Portland, Oreg. Ice-cream, chocolates, and candies. No. 80,006; Oct. 25; Gaz. vol. 159; p. 988.
Swift and Company, Chicago, Ill. Cotton-seed oil and beef-fat. No. 77,096; Mar. 8; Gaz. vol. 152; p. 484.
Swift and Company, Chicago, Ill. Certain foods. No. 77,097; Mar. 8; Gaz. vol. 152; p. 484.
Swope & Mangold, Inc., Dallas, Tex. Straight whisky. No. 76,535; Jan. 25; Gaz. vol. 150; p. 1038.
Synvita Medicine Co., Lima, Ohio. Remedies for coughs, colds, grippe, and certain other affections. No. 79,533; Sept. 13; Gaz. vol. 158; p. 479.
Syracuse Candle Company, Syracuse, N. Y. Candles. No. 78,661; June 28; Gaz. vol. 155; p. 1039.
T. B. Clark & Co., Seelyville, Pa. Artistic cut glassware. No. 78,588; June 28; Gaz. vol. 155; p. 1037.
T. B. Hall & Company Limited, Liverpool, England. Ale, beer, porter, and stout. No. 77,846; May 10; Gaz. vol. 154; p. 510.
T. H. Nevin Company, Pittsburg, Pa. Painters' materials. No. 80,488; Dec. 27; Gaz. vol. 161; p. 1040.
Tacoma Grain Company, Tacoma, Wash. Wheat-flour. No. 76,314; Jan. 4; Gaz. vol. 150; p. 262.
Tacoma Grain Company, Tacoma, Wash. Wheat-flour. No. 78,836; July 12; Gaz. vol. 156; p. 535.
Tanners Cut Sole Company, Portland, Me., and Boston, Mass. Sole-leather. No. 78,285; May 31; Gaz. vol. 154; p. 1409.
Tappan Shoe Manufacturing Company, The, Coldwater, Mich. Shoes. No. 77,847; May 10; Gaz. vol. 154; p. 511.
Tarshis, Belle, Brooklyn, N. Y. Remedy for female complaints. No. 78,364; June 7; Gaz. vol. 155; p. 303.
Tate, Harry F., Kokomo, Ind. Veterinary remedy. No. 76,823; Feb. 15; Gaz. vol. 151; p. 727.
Taylor Bedding Mfg. Co., Taylor, Tex. Mattresses and pillows. No. 79,880; Oct. 11; Gaz. vol. 159; p. 487.
Taylor-Burt Co., Holyoke, Mass. Paper and envelops. No. 76,315; Jan. 4; Gaz. vol. 150; p. 262.
Taylor-Burt Co., Holyoke, Mass. Certain papers. No. 76,385; Jan. 11; Gaz. vol. 150; p. 566.
Taylor-Burt Co., The, Holyoke, Mass. Paper and envelops. No. 77,681; Apr. 26; Gaz. vol. 153; p. 1079.
Taylor & Co. Inc., Newark, N. J. Certain precious-metal ware. No. 78,662; June 28; Gaz. vol. 155; p. 1039.
Taylor, Horace B., Philadelphia, Pa. Pills for female complaints. No. 77,111; Mar. 8; Gaz. vol. 152; p. 484.
Taylor Instrument Companies, Rochester, N. Y. Thermometers and thermometer-charts. No. 77,145; Mar. 15; Gaz. vol. 152; p. 727.
Taylor Instrument Companies, Rochester, N. Y. Certain named scientific instruments. No. 79,377; Aug. 30; Gaz. vol. 157; p. 1240.
Taylor, Louis M., Waterloo, Iowa. Remedy for diseases of fowls and chicken-cholera. No. 76,633; Feb. 1; Gaz. vol. 151; p. 191.
Taylor, Ronald, New York, N. Y. Artificial stone and a composition for making the same. No. 79,944; Oct. 18; Gaz. vol. 159; p. 744.
Teas, William H., Ridgway, Pa. Hide-powder. No. 76,824; Feb. 15; Gaz. vol. 151; p. 727.
Teichert, Albert E., Denver, Colo. Urinary antiseptic tablets. No. 76,634; Feb. 1; Gaz. vol. 151; p. 191.
Telfer Coffee Company, Detroit, Mich. Coffee. No. 76,497; Jan. 18; Gaz. vol. 150; p. 823.
Teofani & Co., Limited, London, England. Cigarettes, cigars, and tobacco. No. 80,449; Dec. 20; Gaz. vol. 161; p. 750.
Terre Haute Pure Milk and Ice Cream Company, Terre Haute, Ind. Ice-cream and ices. No. 79,708; Sept. 27; Gaz. vol. 158; p. 881.
Texas Company, The, Houston, Tex., and New York, N. Y. Lubricating-oil. No. 79,613; Sept. 20; Gaz. vol. 158; p. 699.
Texas Star Flour Mills, Galveston, Tex. Wheat-flour. Nos. 77,342–3; Mar. 29; Gaz. vol. 152; p. 1220.
The Fair, Chicago, Ill. Men's and boys' outer suits and men's and boys' overcoats. No. 76,955; Mar. 1; Gaz. vol. 152; p. 225.
Theo. H. Gary Co., New York, N. Y. Hair-nets. No. 76,536; Jan. 25; Gaz. vol. 150; p. 1038.
Theo. Noel Company, Chicago, Ill. Medicines for suppositories. No. 80,078; Nov. 1; Gaz. vol. 160; p. 254.
Therien, Joseph O., Minneapolis, Minn. Cigars. No. 78,837; July 12; Gaz. vol. 156; p. 535.
Thermal Syndicate, Limited, The, Wallsend, England. Articles of fused silica. No. 78,838; July 12; Gaz. vol. 156; p. 535.
Thermo-Chemicals Company, New York, N. Y. Anhydrous hyperthermic poultice. No. 78,468; June 14; Gaz. vol. 155; p. 551.
Thermo-Chemicals Company, New York, N. Y. Dry poultice. No. 80,007; Oct. 25; Gaz. vol. 159; p. 988.
Thies, Carl A., Charlotte, N. C. Salves. No. 76,386; Jan. 11; Gaz. vol. 150; p. 566.
Thoma Bros. Co., Cincinnati, Ohio. Chains, fobs, lockets, and bracelets. No. 76,387; Jan. 11; Gaz. vol. 150; p. 566.
Thomas G. Plant Co., Boston, Mass. Polishes and dressings. No 78,901; July 19; Gaz. vol. 156; p. 794.
Thomas G. Plant Co., Montclair, N. J., and Boston, Mass. Certain clothing. No. 80,195; Nov. 15; Gaz. vol. 160; p. 769.
Thomas, George J., Boston, Mass. Valves and cocks. No. 78,839; July 12; Gaz. vol 156; p. 535.
Thomas Madden Son and Company, Indianapolis, Ind. Davenports. No. 78,429; June 14; Gaz. vol. 155; p. 550.
Thomas Moulding Company, Chicago, Ill. Bricks. No. 79,172; Aug. 9; Gaz. vol. 157; p. 483.
Thompson, Charles E., Troy, N. Y. Shaving-brushes and detachable parts thereof. No. 77,584; Apr. 19; Gaz. vol. 153; p. 819.
Thompson-Ehlers Co., Chicago, Ill. Leather boots and shoes. No. 77,382; Apr. 5; Gaz. vol. 153; p. 267.
Thompson Ehlers Co., Chicago, Ill. Shoe laces, eyelets, and closure fastenings. No. 80,499; Dec. 27; Gaz. vol. 161; p. 1040.
Thompson, Fred A., Trenton, N. J. Certain composition. No. 78,469; June 14; Gaz vol. 155; p. 551.
Thornton, Cleveland. Cleveland, Ohio. Preparation for cleaning glass and metal. No. 79,535; Sept. 13; Gaz. vol. 158; p. 479.
Thos. H. Dallett Company, Philadelphia, Pa. Pneumatic-tools. No. 76,607; Feb. 1; Gaz. vol. 151; p. 190.
Thurston & Kingsbury, Bangor, Me. Tea and blended coffee. No 78,745; July 5; Gaz. vol. 156; p. 255.
Tichenor, James R., Louisville, Ky Butter. No. 78,029; May 24; Gaz. vol. 154; p. 1104.
Tide Water Oil Company, New York, N. Y. Lubricating-oils. No. 80,390; Dec. 13; Gaz. vol. 161; p. 526.
Tiffany Brothers, Bennington, Vt. Knit shirts and drawers. No. 77,848; May 10; Gaz. vol. 154; p. 511.
Tikijian, Richard, Waterbury, Conn. Chewing-gum. No. 77,344; Mar. 29; Gaz. vol. 152; p. 1220.
Till Manufacturing Company, Los Angeles, Cal. Collar-supports. No. 79,309; Aug. 23; Gaz. vol. 157; p. 996.
Tilton Mills, Tilton, N. H. Tweeds, cassimeres, meltons, &c. No. 76,803; Feb. 15; Gaz. vol. 151; p. 727.
Tingue Brown & Co., New York, N. Y. Printing-press blanket. No. 78,840; July 12; Gaz. vol. 156; p. 535.
Tingue, Brown & Company, New York, N. Y. Certain cotton cloth. No. 79,086; Aug. 2; Gaz. vol. 157; p. 204.
Tiresele Co., The, Newark, N. J. Powder for sealing punctures in pneumatic tires. No. 77,060; Mar. 8; Gaz. vol. 152; p. 483.
Tobacco World Corporation, Audubon, N. J., and Philadelphia, Pa. Weekly periodical. Nos. 80,251–2; Nov. 22; Gaz. vol. 160; p. 1034.
Tobaclets, Inc. (See Fullwood, George L., assignor.)
Todd, Arthur C., New York, N. Y. Candy. No. 80,391; Dec. 13; Gaz. vol. 161; p. 526.
Tokar, Paul, South Lorain, Ohio. Eye medicine. No. 78,746; July 5; Gaz. vol. 156; p. 255.
Tokstad, Trygve V., New York, N. Y. Smoked herrings. No. 80,392; Dec. 13; Gaz. vol. 161; p. 526.
Toledo Cooker Co., The, Toledo, Ohio. Certain metal ware. No. 78,747; July 5; Gaz. vol. 156; p. 255.
Toledo Wheelbarrow Company, Toledo, Ohio. Wheelbarrows. No. 76,676; Feb. 8; Gaz. vol. 151; p. 446.
Tootal Broadhurst Lee Company Limited, Manchester, England. Cotton piece goods. No. 77,496; Apr. 12; Gaz. vol. 153; p. 543.
Tootal Broadhurst Lee Company Limited, Manchester, England. Cotton handkerchiefs. Nos. 77,770–1; May 3; Gaz. vol. 154; p. 249.
Torsch Packing Company, Baltimore, Md. Canned fruits and vegetables. No. 77,585; Apr. 19; Gaz. vol. 153; p. 819.

Alphabetical list of registrants of trade-marks—Continued.

Tousley & Hertel, Cleveland, Ohio. Wheat-flour. No. 76,843; Feb. 15; Gaz. vol. 151; p. 728.
Towne, Elizabeth, Holyoke, Mass. Monthly magazines. No. 80,008; Oct. 25; Gaz. vol. 159; p. 988.
Townsend & Co., E. M., New York, N. Y. Hosiery. Nos. 77,849–50; May 10; Gaz. vol. 154; p. 511.
Townsend & Co., E. M., New York, N. Y. Hosiery. No. 79,614; Sept. 20; Gaz. vol. 158; p. 699.
Trauth, Sebastian, New Orleans, La. Vegetable composition to be blended with coffee. No. 76,775; Feb. 15; Gaz. vol. 151; p. 726.
Tredegar Company, The, Richmond, Va. Horse and mule shoes. No. 80,393; Dec. 13; Gaz. vol. 161; p. 526.
Treinis Bros., New York, N. Y. Certain athletic garments. No. 79,452; Sept. 6; Gaz. vol. 158; p. 225.
Tremont Worsted Co., Methuen, Mass. Worsted piece goods. No. 79,087; Aug. 2; Gaz. vol. 157; p. 204.
Trenton Iron Company, The, Trenton, N. J., and New York, N. Y. Wire rope. No. 78,365; June 7; Gaz. vol. 155; p. 303.
Trenton Shirt Manufacturing Co., The, Trenton, N. J. Men's and boys' shirts and pajamas. No. 77,586; Apr. 19; Gaz. vol. 153; p. 819.
Triangle Hosiery Mills, Philadelphia, Pa. Hosiery. No. 76,864; Feb. 22; Gaz. vol. 151; p. 1009.
Trio Medicine Company, The, Point, Tex. Remedy for fits and nervous troubles. No. 79,536; Sept. 13; Gaz. vol. 158; p. 479.
Tropical Pharmacal Company, New York, N. Y. Tocological medicine. No. 80,500; Dec. 27; Gaz. vol. 161; p. 1040.
Tropon Works, New York, N. Y. Medicinal preparation containing albumen. No. 80,009; Oct. 25; Gaz. vol. 159; p. 988.
Trowbridge, William S., Meadville, Pa. Chocolate chips. No. 80,162; Nov. 8; Gaz. vol. 160; p. 490.
Troy Chemical Co., Binghamton, N. Y. Ointment. No. 78,471; June 14; Gaz. vol. 155; p. 551.
True, Hiram L., McConnellsville, Ohio. Remedies for certain diseases. No. 79,453; Sept. 6; Gaz. vol. 158; p. 225.
True W. Jones Brewing Company, Manchester, N. H. Ale. No. 77,851; May 10; Gaz. vol. 154; p. 511.
Truefitte Underwear Co., The, New York, N. Y. Certain clothing. No. 77,587; Apr. 19; Gaz. vol. 153; p. 819.
Truitt Bros., Binghamton, N. Y. Shoes. No. 79,945; Oct. 18; Gaz. vol. 159; p. 744.
Trunk, Lisette, New York, N. Y. Pickles. No. 78,049; May 24; Gaz. vol. 154; p. 1105.
Tucker, Walter E., New York, N. Y. Electrical ignition apparatus and spark-plugs. No. 76,703; Feb. 8; Gaz. vol. 151; p. 447.
Turner Brass Works, The, Sycamore and Chicago, Ill. Certain metal goods. Nos. 77,497–8; Apr. 12; Gaz. vol. 153; p. 543.
Turner Brothers, Limited, Rochdale, England. Balata belting. No. 78,552; June 21; Gaz. vol. 155; p. 797.
Turner, Day & Woolworth Handle Co., Louisville, Ky.; Memphis and Nashville, Tenn., and Huntington, W. Va. Wooden tool-handles. No. 76,463; Jan. 18; Gaz. vol. 150; p. 822.
Turner, Day & Woolworth Handle Co., Louisville, Ky. Tool-handles. No. 79,018; July 26; Gaz. vol. 156; p. 1063.
Turner, Halsey Co., New York, N. Y. Linen and cotton piece goods. No. 78,142; May 31; Gaz. vol. 154; p. 1405.
Turner Supply Co., Mobile, Ala. Asphalt roofing. No. 79,173; Aug. 9; Gaz. vol. 157; p. 483.
Turtle Cup Limited, London, England. Turtle-soup. No. 79,243; Aug. 16; Gaz. vol. 157; p. 750.
Twining, Stephen B., Yardley, Pa. Dressed poultry. No. 78,748; July 5; Gaz. vol. 156; p. 255.
Twohy-Eimon Mercantile Company, Superior, Wis. Canned fruits and vegetables. No. 79,537; Sept. 13; Gaz. vol. 158; p. 479.
Tydings & Co., Ocala, Fla. Remedy for diseases of the blood. No. 80,501; Dec. 27; Gaz. vol. 161; p. 1040.
Tyndale, May, Fresno, Cal. Fruit confections. No. 79,799; Oct. 4; Gaz. vol. 159; p. 239.
Tyrrell's Hygienic Institute, New York, N. Y. Syringes. No. 80,254; Nov. 22; Gaz. vol. 160; p. 1034.
U. S. Bedding Company, Memphis, Tenn. Mattresses. No. 77,410; Apr. 5; Gaz. vol. 153; p. 268.
U. S. Bedding Company, Memphis, Tenn. Mattresses. No. 79,238; Aug. 16; Gaz. vol. 157; p. 750.
U. S. Fashion & Sample Book Co., Philadelphia, Pa.; New York, N. Y., and Chicago, Ill. Illustrated sample and fashion books. No. 79,174; Aug. 9; Gaz. vol. 157; p. 483.
Ullman, James A., New York, N. Y. Storage-tanks. No. 80,502; Dec. 27; Gaz. vol. 161; p. 1040.
Ulmann & Co., Bernhard, New York, N. Y. Certain yarns. No. 79,239; Aug. 16; Gaz. vol. 157; p. 750.
Ulmann & Co., Bernhard, New York, N. Y. Worsted yarn wound with mercerized cotton. No. 79,538; Sept. 13; Gaz. vol. 158; p. 479.
Underwood & Carroll, Gardner, Mass. Tooth-powder. No. 77,112; Mar. 8; Gaz. vol. 152; p. 484.
Underwood, John T., New York, N. Y. Writing and printing paper. No. 77,383; Apr. 5; Gaz. vol. 153; p. 267.
Union Bag and Paper Company, Jersey City, N. J., and New York, N. Y. Paper bags. No. 78,916; July 19; Gaz. vol. 156; p. 794.
Union Bag and Paper Company, The, Jersey City, N. J., and New York, N. Y. Paper bags. No. 80,253; Nov. 22; Gaz. vol. 160; p. 1034.
Union Carbide Company, New York, N. Y. Calcium carbid. No. 78,367; June 7; Gaz. vol. 155; p. 303.
Union Card & Paper Co., New York, N. Y. Writing and printing paper. No. 76,727; Feb. 8; Gaz. vol. 151; p. 447.
Union Card & Paper Co., New York, N. Y. Paper, envelops, and cardboard. No. 77,031; Mar. 1; Gaz. vol. 152; p. 227.
Union Card & Paper Co., New York, N. Y. Writing and printing paper. No. 78,841; July 12; Gaz. vol. 156; p. 535.
Union Card & Paper Co., New York, N. Y. Writing and printing paper. No. 79,616; Sept. 20; Gaz. vol. 158; p. 699.
Union Distilling Co., Cincinnati, Ohio. Straight whisky. No. 77,274; Mar. 22; Gaz. vol. 152; p. 955.
Union Fibre Company, Winona, Minn. Waterproof paper. No. 78,917; July 19; Gaz. vol. 156; p. 795.
Union Fibre Company, Winona, Minn. Heat-insulating material. No. 79,869; Oct. 11; Gaz. vol. 159; p. 486.
Union Fishermen's Co-op. Pack'g Co., Astoria, Oreg. Canned salmon. No. 77,967; May 17; Gaz. vol. 154; p. 833.
Union Fishermen's Co-op. Packing Co., Astoria, Oreg. Canned salmon. No. 78,388; June 7; Gaz. vol. 155; p. 303.
Union Metal Works, Chelsea, Mass. Ball-cocks. No. 78,554; June 21; Gaz. vol. 155; p. 797.
Union Novelty Co., New York, N. Y. Braids and soutaches. No. 78,918; July 19; Gaz. vol. 156; p. 795.
Union Special Overall Company, The, Cincinnati, Ohio. Overalls. No. 77,968; May 17; Gaz. vol. 154; p. 833.
Union Stove Works, The, Peekskill and New York, N. Y. Stoves and ranges for cooking and heating. No. 79,240; Aug. 16; Gaz. vol. 157; p. 750.
Unique Carbon Paper Co., Philadelphia, Pa. Carbon-paper. Nos. 77,499–500; Apr. 12; Gaz. vol. 153; p. 543.
United Awl & Needle Company, Portland, Me., and Boston, Mass. Awls and awl-hafts. Nos. 77,009–10; Mar. 1; Gaz. vol. 152; p. 226.
United Awl & Needle Company, Portland, Me., and Boston, Mass. Awls and awl-hafts. No. 77,345; Mar. 29; Gaz. vol. 152; p. 1220.
United Drug Company, Boston, Mass. Playing-cards. No. 76,825, Feb. 15; Gaz. vol. 151; p. 727.
United Drug Company, Boston, Mass. Mosquito-repelling lotion. No. 76,927; Feb. 22; Gaz. vol. 151; p. 1011.
United Drug Company, Boston, Mass. Watches. No. 77,346; Mar. 29; Gaz. vol. 152; p. 1220.
United Drug Company, Boston, Mass. Shampoo preparations and hair-tonics. No. 77,852; May 10; Gaz. vol. 154; p. 511.
United Handle Mills, New York, N. Y. Tool and implement handles. No. 78,842; July 12; Gaz. vol. 156; p. 535.
United Roofing and Manufacturing Company, Philadelphia, Pa. Floor-covering. No. 78,472; June 14; Gaz. vol. 155; p. 551.
United Roofing & Manufacturing Company, Philadelphia, Pa. Felt roofing materials. No. 80,010; Oct. 25; Gaz. vol. 159; p. 988.
United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Dispensing-cans and cement-pots. No. 76,575; Feb. 1; Gaz. vol. 151; p. 189.
United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Adhesive cement. No. 77,969; May 17; Gaz. vol. 154; p. 833.
United States Asbestos Co., Manheim, Pa. Certain asbestos products. No. 78,050; May 24; Gaz. vol. 154; p. 1105.
United States Paper Bottle Company, Inc., Hartford, Conn. Paper bottles, cups, and cartons. No. 79,241; Aug. 16; Gaz. vol. 157; p. 750.
United States Tanned Pig Skin Co., Peabody, Mass. Leather. No. 77,275; Mar. 22; Gaz. vol. 152; p. 955.
United States Vacuum Cleaner Company, Bradford, Pa. Vacuum cleaning apparatus. No. 80,450; Dec. 20; Gaz. vol. 161; p. 750.
Universal Tire Setter Company, Baltimore, Md. Alloy for repairing wagon-wheels. No. 80,294; Nov. 29; Gaz. vol. 160; p. 1268.
Unterberg & Helmle, Durlach, Germany. Magnetos. No. 77,970; May 17; Gaz. vol. 154; p. 833.
Unterberg & Helmle, Durlach, Germany. Magnetos. No. 79,088; Aug. 2; Gaz. vol. 157; p. 204.
Up to Date Cloak Manufacturing Company, Kingston, N. Y. Certain named clothing. No. 79,378; Aug. 30; Gaz. vol. 157; p. 1240.
Upham, George F., New York, N. Y. Flavoring extracts. No. 76,945; Feb. 22; Gaz. vol. 151; p. 1011.
Urban, Charles, London, England. Kinematographic apparatus and kinematographic films. No. 76,537; Jan. 25; Gaz. vol. 150; p. 1038.
Urban, Edward A., Houston, Tex. Salve. No. 76,728; Feb. 8; Gaz. vol. 151; p. 447.

Alphabetical list of registrants of trade-marks—Continued.

Urben, Joseph P., Pittsburg, Pa. Salve for the face, chapped hands, and burns. No. 79,617; Sept. 20; Gaz. vol. 158; p. 699.
Utz & Dunn, Rochester, N. Y. Leather boots and shoes. No. 76,464; Jan. 18; Gaz. vol. 150; p. 822.
Utz & Dunn, Rochester, N. Y. Leather boots and shoes. No. 79,242; Aug. 16; Gaz. vol. 157; p. 750.
Vacuum Specialty Manufacturing Company, Phoenix, Ariz., and San Francisco, Cal. Vacuum-cleaning apparatus. No. 78,919; July 19; Gaz. vol. 156; p. 795.
Van Doesburg, Wed. B., Mijdrecht and Amsterdam, Netherlands. Cakes and biscuits. No. 77,888; May 10; Gaz. vol. 154; p. 512.
Vancleave, Robert A., Philadelphia, Pa. Nursing-bottles. No. 76,406; Jan. 11; Gaz. vol. 150; p. 566.
Vegetable Butter Company, New York, N. Y. Preparation of eatable fats. No. 78,920; July 19; Gaz. vol. 156; p. 795.
Vehicle Top & Supply Company, St. Louis, Mo. Automobile-tops. No. 77,428; Apr. 5; Gaz. vol. 153; p. 268.
Veit, Son & Co., New York, N. Y. Millinery-trimmings. No. 78,843; July 12; Gaz. vol. 156; p. 535.
Vereinigte Uhrenfabriken von Gebrüder Junghans und Thomas Haller A.-G., Schramberg, Germany. Clockworks, watchcases, &c. No. 77,347; Mar. 29; Gaz. vol. 152; p. 1220.
Vertriebs-Gesellschaft Prof. Dr. Schleich'scher Präparate G. m. b. H., Berlin, Germany. Preparation of chloroform for medicinal use. No. 76,318; Jan. 4; Gaz. vol. 150; p. 262.
Vertriebs-Gesellschaft Prof. Dr. Schleich'scher Präparate G. m. b. H., Berlin, Germany. Medicines and toilet preparations. No. 78,030; May 24; Gaz. vol. 154; p. 1104.
Vette & Zuncker Packing Company, Chicago, Ill. Canned meats and sausages. No. 80,329; Dec. 6; Gaz. vol. 161; p. 264.
Vickery & Hill Publishing Co., Augusta, Me. Monthly periodical. No. 76,319; Jan. 4; Gaz. vol. 150; p. 262.
Victor Auto Supply M'f'g Co., New York, N. Y. Certain automobile accessories. No. 79,539; Sept. 13; Gaz. vol. 158; p. 479.
Victor Talking Machine Company, Camden, N. J. Talking-machines and parts and records. No. 80,201; Nov. 15; Gaz. vol. 160; p. 770.
Viking Refrigerator & Mfg. Co., Kansas City, Kans. Refrigerators. No. 78,555; June 21; Gaz. vol. 155; p. 797.
Virginia-Carolina Chemical Co., Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C., and Memphis, Tenn. Fertilizers. No. 80,093; Nov. 1; Gaz. vol. 160; p. 255.
Vitrified Wheel Company, Westfield, Mass. Certain abrasives. No. 76,729; Feb. 8; Gaz. vol. 151; p. 447.
Vittucci-Magnano, Inc., Seattle, Wash. Lucca olive-oil. No. 78,844; July 12; Gaz. vol. 156; p. 535.
Vivell, E. G. and A. H., Rio Piedras, Porto Rico. Fresh fruits. No. 78,217; May 31; Gaz. vol. 154; p. 1407.
Voorhees, Louis A., New Brunswick, N. J. Polishing-cloths. No. 79,090; Aug. 2; Gaz. vol. 157; p. 204.
Voskamps Sons, B. H., Pittsburg, Pa. Blended tea. No. 79,310; Aug. 23; Gaz. vol. 157; p. 996.
Vulcanized Rubber Co., The, New York, N. Y. Rubber combs. No. 76,982; Mar. 1; Gaz. vol. 152; p. 226.
W. Ludwig Schultze Company, New York, N. Y. Certain furniture. No. 77,853; May 10; Gaz. vol. 154; p. 511.
W. C. Hendrie Rubber Company, The, Denver, Colo., and Salt Lake City, Utah. Tanned lace-leather. No. 79,053; Aug. 2; Gaz. vol. 157; p. 203.
W. C. Routh & Co., Logansport, Ind. Hams, bacon, and lard. Nos. 79,787–8; Oct. 4; Gaz. vol. 159; p. 239.
W. E. Pruden Hardware Co., New York, N. Y. Brake-linings. No. 79,078; Aug. 2; Gaz. vol. 157; p. 204.
W. E. Wroe & Company, Chicago, Ill. Writing-paper. No. 79,314; Aug. 23; Gaz. vol. 157; p. 997.
W. E. Wroe & Company, Chicago, Ill. Writing-paper. No. 79,877; Oct. 11; Gaz. vol. 159; p. 487.
W. F. Schrafft & Sons Corporation, Boston, Mass. Chocolate candies. No. 80,199; Nov. 15; Gaz. vol. 160; p. 770.
W. F. Schrafft & Sons Corporation, Boston, Mass. Chocolate candy. No. 80,291; Nov. 29; Gaz. vol. 160; p. 1268.
W. and F. Walker Limited, Liverpool, England. Soap. No. 78,031; May 24; Gaz. vol. 154; p. 1104.
W. H. Bull Medicine Company, St. Louis, Mo. Medicinal tablets for headache and fever. No. 79,188; Aug. 16; Gaz. vol. 157; p. 749.
W. H. Gardner Grain & Mill Co., Bellevue, Ohio. Flour made of wheat. No. 77,693; Apr. 26; Gaz. vol. 153; p. 1079.
W. H. McElwain Company, Boston, Mass. Artificial sole-leather. No. 78,385; June 7; Gaz. vol. 155; p. 303.
W. H. Stokes Milling Co., Watertown, S. D. Wheat-flour. Nos. 77,011–13; Mar. 1; Gaz. vol. 152; p. 226.
W. K. Kenly Company, Chicago, Ill. Metal switch and signal carrier-bases. No. 80,058; Nov. 1; Gaz. vol. 160; p. 254.
W. R. Roach & Co., Hart, Mich. Canned fruits and vegetables. No. 78,028; May 24; Gaz. vol. 154; p. 1104.
W. R. Roach & Co., Hart, Mich. Canned fruits and vegetables. No. 78,277; May 31; Gaz. vol. 154; p. 1409.
W. S. Tyler Company, Cleveland, Ohio. Wire screens for use as spark-arresters. No. 76,608; Feb. 1; Gaz. vol. 151; p. 190.
W. S. Tyler Company, The, Cleveland, Ohio. Woven-wire fabrics for screens. No. 78,553; June 21; Gaz. vol. 155; p. 797.
W. S. Tyler Company, The, Cleveland, Ohio. Woven-wire fabrics for screens. No. 79,615; Sept. 20; Gaz. vol. 158; p. 699.
Wabash Canning Company, The, Wabash, Ind. Canned tomatoes, peas, corn, pumpkin, &c. No. 77,348; Mar. 29; Gaz. vol. 152; p. 1221.
Wadhams & Company, Portland, Oreg. Certain foods. No. 77,588; Apr. 19; Gaz. vol. 153; p. 819.
Wadhams & Company, Portland, Oreg. Certain foods. No. 77,773; May 3; Gaz. vol. 154; p. 249.
Wadsworth-Howland Company, Chicago, Ill. Paint, metal-polish, and varnish-remover. No. 77,053; Mar. 8; Gaz. vol. 152; p. 483.
Wadsworth, Howland & Co., Incorporated, Boston, Mass. Varnishes. Nos. 77,181–2; Mar. 15; Gaz. vol. 152; p. 728.
Wadsworth-Howland Company, Chicago, Ill. Metal-preservative paint. No. 80,094; Nov. 1; Gaz. vol. 160; p. 255.
Wagner, Edward H., Mineral Wells, Tex. Natural mineral water. No. 79,091; Aug. 2; Gaz. vol. 157; p. 204.
Wagner, Edward H., New York, N. Y. Fireworks. No. 80,394; Dec. 13; Gaz. vol. 161; p. 526.
Wagner, Frank, Chicago, Ill. Remedies for certain diseases. No. 77,971; May 17; Gaz. vol. 154; p. 833.
Waite, Thresher Company, Providence, R. I. Certain jewelry. No. 80,011; Oct. 25; Gaz. vol. 159; p. 988.
Waitt & Bond, Incorporated, Boston, Mass. Cigars. No. 77,120; Mar. 8; Gaz. vol. 152; p. 485.
Waitt & Bond, Incorporated, Boston, Mass. Cigars. No. 77,589; Apr. 19; Gaz. vol. 153; p. 819.
Wakefield & Company, C. C., London, England. Calcium-carbid blocks or cakes. No. 77,168; Mar. 15; Gaz. vol. 152; p. 728.
Wal-Talk Medicine Co., Malvern, Ark. Remedy for eczema. No. 76,826; Feb. 15; Gaz. vol. 151; p. 727.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary. Snap-buttons. No. 80,095; Nov. 1; Gaz. vol. 160; p. 255.
Walker Chemical Company, Des Moines, Iowa. Cold-cream. No. 78,143; May 31; Gaz. vol. 154; p. 1405.
Walker Chemical Company, Des Moines, Iowa. Cold-cream. No. 78,749; July 5; Gaz. vol. 156; p. 255.
Walker, Francis S., Fayette, Iowa. Antiseptic germicide. No. 78,750; July 5; Gaz. vol. 156; p. 255.
Walker and Pratt Manufacturing Company, Boston, Mass. Stoves, furnaces, heating-boilers, and parts of the same. No. 79,311; Aug. 23; Gaz. vol. 157; p. 997.
Walker & Sons, John, Limited, Kilmarnock, Scotland, and London, England. Blend of straight Scotch whiskies. No. 78,286; May 31; Gaz. vol. 154; p. 1409.
Walker & Sons, John, Limited, Kilmarnock, Scotland, and London, England. Whisky. No. 78,556; June 21; Gaz. vol. 155; p. 797.
Wallace Music Co., Marion, Ind. Pianos. No. 80,330; Dec. 6; Gaz. vol. 161; p. 264.
Wallace & Thomson, New York, N. Y. Certain foods. No. 78,557; June 21; Gaz. vol. 155; p. 797.
Walter A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Certain agricultural machines. No. 77,079; Mar. 8; Gaz. vol. 152; p. 484.
Walter A. Wood Mowing & Reaping Machine Company, Hoosick Falls, N. Y. Harvesters, binders, reapers, and mowers. No. 78,219; May 31; Gaz. vol. 154; p. 1407.
Walter, Edwin, Norfolk, Va. Monthly magazine. No. 78,287; May 31; Gaz. vol. 154; p. 1409.
Walter-Obrecht, Otto, Mümliswil, Switzerland. Combs. No. 76,804; Feb. 15; Gaz. vol. 151; p. 727.
Walton, Alfred, New York, N. Y. Substitute for coffee. No. 79,379; Aug. 30; Gaz. vol. 157; p. 1241.
Wanamaker, John, Philadelphia, Pa. Certain clothing. No. 77,384; Apr. 5; Gaz. vol. 153; p. 267.
Ward Equipment Company, New York, N. Y. Steam-heating apparatus and parts thereof. No. 77,590; Apr. 19; Gaz. vol. 153; p. 819.
Ward, Louis N., Mobile, Ala. Coffee. No. 77,859; May 10; Gaz. vol. 154; p. 511.
Wardell, Fred, Detroit, Mich. Vacuum-cleaners. No. 79,946; Oct. 18; Gaz. vol. 159; p. 744.
Warne-Browne, Alfred J., London, England. Packing boxes and cases. No. 79,175; Aug. 9; Gaz. vol. 157; p. 483.
Warner, Charles F., New York, N. Y. Hair-tonic. No. 79,870; Oct. 11; Gaz. vol. 159; p. 486.
Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 78,558; June 21; Gaz. vol. 155; p. 797.
Warner-Godfrey Co., New York, N. Y. Cotton satines. No. 79,871; Oct. 11; Gaz. vol. 159; p. 486.
Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 79,872; Oct. 11; Gaz. vol. 159; p. 487.
Warren Axe & Tool Company, Warren, Pa. Certain tools. No. 77,014; Mar. 1; Gaz. vol. 152; p. 227.
Warren Brothers Company, Boston, Mass. Bituminous cement. No. 77,349; Mar. 29; Gaz. vol. 152; p. 1220.

Alphabetical list of registrants of trade-marks—Continued.

Warren Brothers Company, Boston, Mass. Pavements and paving material. No. 78,559; June 21; Gaz. vol. 155; p. 797.
Warren Lubricant Company, Warren, Pa. Lubricating-greases. No. 76,335; Jan. 4; Gaz. vol. 150; p. 263.
Warren Paint Company, The, Warren, Ohio. White lead. No. 77,361; Mar. 29; Gaz. vol. 152; p. 1221.
Warren Webster & Co., Camden, N. J. Steam-heating and ventilating apparatus. No. 77,276; Mar. 22; Gaz. vol. 152; p. 955.
Warren Webster & Co., Camden, N. J. Steam-heating and ventilating apparatus. No. 77,591; Apr. 19; Gaz. vol. 153; p. 819.
Warren Webster & Co., Camden, N. J. Steam-heating apparatus. No. 77,854; May 10; Gaz. vol. 154; p. 511.
Washburn Crosby Company, Minneapolis, Minn. Wheat-flour. No. 78,218; May 31; Gaz. vol. 154; p. 1407.
Washington Cone Manufacturing Company, Seattle, Wash., and San Francisco, Cal. Ice-cream cones. No. 78,288; May 31; Gaz. vol. 154; p. 1409.
Wassermann & Co., J., New York, N. Y. Evaporated apples. No. 79,800; Oct. 4; Gaz. vol. 159; p. 239.
Wassermann & Co. The Antiglissol Company Ld. Lausanne, Lausanne, Switzerland. Compounds for brazing and welding metals. No. 76,730; Feb. 8; Gaz. vol. 151; p. 447.
Waterproofing Co., The, New York, N. Y. Waterproof masonry cements, coatings, and mortars. No. 78,845; July 12; Gaz. vol. 156; p. 535.
Waterloo Gasoline Engine Company, Waterloo, Iowa. Internal-combustion engines. No. 77,169; Mar. 15; Gaz. vol. 152; p. 728.
Waters Pierce Oil Company, St. Louis, Mo. Gasolene. No. 78,473; June 14; Gaz. vol. 155; p. 551.
Wattles, Waldo M., Ann Arbor, Mich. Molasses used in feed for horses and cattle. No. 76,776; Feb. 15; Gaz. vol. 151; p. 726.
Waukesha Canning Company, The, Waukesha, Wis. Canned vegetables. No. 76,465; Jan. 18; Gaz. vol. 150; p. 822.
Waukesha Canning Company, Waukesha, Wis. Canned peas. No. 77,015; Mar. 1; Gaz. vol. 152; p. 227.
Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Self-measuring pumps and tanks. No. 80,295; Nov. 29; Gaz. vol. 160; p. 1268.
Wayne Paper Goods Company, Fort Wayne, Ind. Paper bags. No. 79,312; Aug. 23; Gaz. vol. 157; p. 997.
Weather-Proofing Nail Co., The, Baltimore, Md. Nails and tacks. No. 77,774; May 3; Gaz. vol. 154; p. 249.
Webers, Milwaukee, Wis. Candies, chocolates, and sweetmeats. No. 76,407; Jan. 11; Gaz. vol. 150; p. 566.
Webster Grocer Company, Danville, Ill. Canned vegetables, sauer-kraut, fish, and oysters. No. 77,592; Apr. 19; Gaz. vol. 153; p. 819.
Weck, Edward, New York, N. Y. Razors. No. 77,682; Apr. 26; Gaz. vol. 153; p. 1079.
Wedertz, William H., Chicago, Ill. Remedy for malarial fever and grippe. No. 79,092; Aug. 2; Gaz. vol. 157; p. 204.
Weichselbaum, Jacob, Savannah, Ga. Compound alcoholic beverages. No. 79,873; Oct. 11; Gaz. vol. 159; p. 487.
Weiner, Michael, Milwaukee, Wis. Brandy. No. 78,294; May 31; Gaz. vol. 154; p. 1409.
Weinreich, Joseph, Dayton, Ohio. Cigars. No. 79,020; July 26; Gaz. vol. 156; p. 1063.
Weis, Henry L., Dayton, Ohio. Medicinal preparation. No. 76,827; Feb. 15; Gaz. vol. 151; p. 727.
Welch, Marshall M., Atlanta, Ga. Polishing and cleaning preparations. No. 79,881; Oct. 11; Gaz. vol. 159; p. 487.
Wellcome, Henry S., London, England. Certain chemicals. No. 76,731; Feb. 8; Gaz. vol. 151; p. 447.
Wellington Wholesale Grocery Company, The, Wellington, Kans. Certain foods. No. 78,846; July 12; Gaz. vol. 156; p. 535.
Wells Flour Milling Company, Wells, Minn. Wheat-flour. No. 77,593; Apr. 19; Gaz. vol. 153; p. 819.
Wendell and Co., Chicago, Ill., and New York, N. Y. Artificial rubies and sapphires. No. 80,163; Nov. 8; Gaz. vol. 160; p. 490.
Werner, Paul, Berlin, Germany. Medicinal soaps. No. 78,289; May 31; Gaz. vol. 154; p. 1409.
Werner Pfleiderer & Perkins Ld., Peterborough, England. Refrigerators, freezing-machines, and parts of freezing-machines. No. 76,661; Feb. 8; Gaz. vol. 151; p. 445.
Werner & Werner Clothing & Furnishing Goods Co., St. Louis, Mo. Hats. Nos. 79,176–7; Aug. 9; Gaz. vol. 157; p. 483.
Wesendonck, Walter, New York, N. Y. Hosiery. No. 80,096; Nov. 1; Gaz. vol. 160; p. 255.
Wessborg-Gage Company, Saginaw, Mich. Chairs, tables, stands, racks, cabinets, desks, and chests. No. 76,946; Feb. 22; Gaz. vol. 151; p. 1011.
Wesson, J. E. & W. G., Worcester, Mass. Leather boots and shoes. No. 77,277; Mar. 22; Gaz. vol. 152; p. 955.
Wesson, J. E. & W. G., Worcester, Mass. Leather boots and shoes. No. 78,145; May 31; Gaz. vol. 154; p. 1405.
West Haven Mfg. Co., The, West Haven, Conn. Hack-saws. No. 78,847; July 12; Gaz. vol. 156; p. 535.
West, John, Santa Anna, Tex. Remedy for the diseases of cattle. No. 79,380; Aug. 30; Gaz. vol. 157; p. 1241.
West Loop Garter Co., Philadelphia, Pa. Stocking-supporters. No. 76,645; Feb. 8; Gaz. vol. 151; p. 445.
West Overton Distilling Co., Scottdale, Pa. Whisky. No. 77,594; Apr. 19; Gaz. vol. 153; p. 819.
Wester Bros., New York, N. Y. Razors, scissors, shears, and table cutlery. Nos. 79,093–4; Aug. 2; Gaz. vol. 157; pp. 204–5.
Western Clock Mfg. Co., Peru, Ill. Clocks and watches. No. 76,576; Feb. 1; Gaz. vol. 151; p. 189.
Western Clock Mfg. Co., The, Peru, Ill. Clocks and watches. Nos. 77,855–6; May 10; Gaz. vol. 154; p. 511.
Western Clock Mfg. Co., The, Peru, Ill. Clocks and watches. No. 78,146; May 31; Gaz. vol. 154; p. 1405.
Western Clock Mfg. Co., The, Peru, Ill. Clocks and watches. No. 78,474; June 14; Gaz. vol. 155; p. 551.
Western Clock Mfg. Co., The, Peru, Ill. Clocks and watches. No. 78,561; June 21; Gaz. vol. 155; p. 797.
Western Clock Mfg. Co., The, La Salle, Ill. Clocks and watches. No. 78,751; July 5; Gaz. vol. 156; p. 255.
Western Clock Mfg. Co., The, Peru, Ill. Clocks. No. 79,089; Aug. 2; Gaz. vol. 157; p. 204.
Western Clock Mfg. Co., Peru, Ill. Clocks and watches. Nos. 79,874–5; Oct. 11; Gaz. vol. 159; p. 487.
Western Clock Mfg. Co., The, Peru, Ill. Clocks and watches. No. 80,503; Dec. 27; Gaz. vol. 161; p. 1040.
Western Coffee Co., The, El Paso, Tex. Coffee. No. 76,704; Feb. 8; Gaz. vol. 151; p. 447.
Western Coffee Co., The, El Paso, Tex. Blended coffee. No. 76,947; Feb. 22; Gaz. vol. 151; p. 1011.
Western Coffee Co., The, El Paso, Tex. Blended coffee. Nos. 77,080–1; Mar. 8; Gaz. vol. 152; p. 484.
Western Condensed Milk Co., Newberg, Oreg. Condensed milk. No. 79,178; Aug. 9; Gaz. vol. 157; p. 483.
Western Flour Mill Company, Davenport, Iowa. Wheat-flour. No. 80,331; Dec. 6; Gaz. vol. 161; p. 264.
Western Grocer Company, Marshalltown, Iowa, and St. Joseph, Mo. Certain foods. No. 76,538; Jan. 25; Gaz. vol. 150; p. 1038.
Western Grocer Company, Marshalltown, Iowa. Certain foods. No. 77,683; Apr. 26; Gaz. vol. 153; p. 1079.
Western Grocer Company, Marshalltown, Iowa. Certain named foods. No. 79,382; Aug. 30; Gaz. vol. 157; p. 1241.
Western Oiled Clothing Co., Kansas City, Mo. Oiled clothing. No. 77,775; May 3; Gaz. vol. 154; p. 249.
Western Stoneware Co., Portland, Me., and Monmouth, Ill. Stoneware, crockery, and eathenware. No. 77,411; Apr. 5; Gaz. vol. 153; p. 268.
Westmoreland Grocery Company, Greensburg, Pa. Certain foods. No. 78,921; July 19; Gaz. vol. 156; p. 795.
Wetter Numbering Machine Company, New York, N. Y. Numbering-machines. No. 80,097; Nov. 1; Gaz. vol. 160; p. 255.
Wheatley, Dennis, London, England. Natural mineral table-water. No. 76,498; Jan. 18; Gaz. vol. 150; p. 823.
Wheeler & Wilson, Boston, Mass. Hammocks and swings. No. 76,662; Feb. 8; Gaz. vol. 151; p. 445.
Wheeling Corrugating Company, Wheeling, W. Va. Metal plates, moldings, fillers, &c. No. 79,454; Sept. 6; Gaz. vol. 158; p. 225.
Wheelock, Lovejoy & Company, Boston, Mass., and New York, N. Y. Steel. No. 78,848; July 12; Gaz. vol. 156; p. 535.
White & Co., W. W., Norfolk, Va. Fruit-flavored ciders. No. 80,255; Nov. 22; Gaz. vol. 160; p. 1034.
White, Otho H., Buffalo, N. Y. Preparation for the removal of freckles. No. 79,801; Oct. 4; Gaz. vol. 159; p. 239.
White Sands Company, The, Alamogordo, N. Mex. Cement, plaster, and brick. No. 76,732; Feb. 8; Gaz. vol. 151; p. 447.
White, W. L., Grand Rapids, Mich. Tonics and dyspepsia-tablets. No. 77,889; May 10; Gaz. vol. 154; p. 512.
White-Warner Co., The, Taunton, Mass. Stoves, ranges, furnaces, &c. No. 80,451; Dec. 20; Gaz. vol. 161; p. 750.
White, Wilson, Drew Company, Memphis, Tenn. Matches. No. 77,972; May 17; Gaz. vol. 154; p. 833.
White, Wilson, Drew Company, Memphis, Tenn. Cooking-soda, baking-powder, and laundry starch. No. 80,164; Nov. 8; Gaz. vol. 160; p. 490.
Whitehouse Chemical Co., Lynchburg, Va. Antiseptic powder. No. 80,098; Nov. 1; Gaz. vol. 160; p. 255.
Whitfield Hardware Company, Hawkinsville, Ga. Pocket-cutlery, razors, scissors, hatchets, axes, and adzes. No. 80,296; Nov. 29; Gaz. vol. 160; p. 1268.
Whiting Paper Company, Holyoke, Mass. Writing-papers. No. 78,148; May 31; Gaz. vol. 154; p. 1405.
Whitman & Barnes Manufacturing Company, Akron, Ohio, and Chicago, Ill. Cultivators, hay-carriers, and fixtures therefor. No. 76,844; Feb. 15; Gaz. vol. 151; p. 728.
Whitman-Barnes Manufacturing Company, The, Akron, Ohio, and Chicago, Ill. Wrenches. No. 77,973; May 17; Gaz. vol. 154; p. 833.
Whittall, Matthew J., Worcester, Mass. Rugs and carpets. No. 78,147; May 31; Gaz. vol. 154; p. 1405.
Whittemore-Wright Company, Incorporated, Boston, Mass. Wax for laundry purposes. No. 80,396; Dec. 13; Gaz. vol. 161; p. 526.
Whittington, Benjamin F., St. Joseph, Mo. Varnish. No. 76,421; Jan. 11; Gaz. vol. 150; p. 567.

Alphabetical list of registrants of trade-marks—Continued.

Widup, Guy L., Oakland, Cal. Antiseptic. No. 79,803; Oct. 4; Gaz. vol. 159; p. 239.
Wiebusch & Hilger, Limited, New York, N. Y. Scissors, razors, and pocket-knives. No. 79,759; Oct. 4; Gaz. vol. 159; p. 238.
Wiener, Bertha I., Chicago, Ill. Antiseptic and immobilizing fluids. No. 77,503; Apr. 12; Gaz. vol. 153; p. 543.
Wiggins, Flavius L., Nashville, Tenn. Disinfectant and deodorizer. No. 77,684; Apr. 26; Gaz. vol. 153; p. 1079.
Wilcox, J. Fred, Chicago, Ill. Cigars. No. 78,290; May 31; Gaz. vol. 154; p. 1409.
Wile Sons & Co., Julius, New York, N. Y. Sherry. No. 79,876; Oct. 11; Gaz. vol. 159; p. 487.
Wilkens, Herman, Flushing, N. Y. Wood-refinishing oils and greases. No. 80,452; Dec. 20; Gaz. vol. 161; p. 750.
Will & Baumer Company, The, Syracuse, N. Y. Candles. Nos. 78,149–51; May 31; Gaz. vol. 154; p. 1405.
Willamette Valley Condensed Milk Company, Portland, Oreg. Condensed milk. No. 79,804; Oct. 4; Gaz. vol. 159; p. 239.
Willbrandt, Emil, St. Louis, Mo. Certain furniture. No. 80,332; Dec. 6; Gaz. vol. 161; p. 264.
Willhite, Noah, Bucklin, Kans. Remedy for irregularity of the menses. No. 80,099; Nov. 1; Gaz. vol. 160; p. 255.
William B. Hough Company, Chicago, Ill. Certain machinery. No. 79,212; Aug. 16; Gaz. vol. 157; p. 750.
William Cluff Company, San Francisco, Cal. Preparation for making a beverage. No. 80,411; Dec. 20; Gaz. vol. 161; p. 749.
William Dixon, Incorporated, New York, N. Y. Saws. No. 77,170; Mar. 15; Gaz. vol. 152; p. 728.
William Edwards Company, The, Cleveland, Ohio. Certain foods. No. 76,705; Feb. 8; Gaz. vol. 151; p. 447.
William H. Cole & Co., Limited, London, England. Hairpins. No. 76,577; Feb. 1; Gaz. vol. 151; p. 189.
William Heiser and Sons Company, Buffalo, N. Y. Certain manhole-fittings. No. 77,776; May 3; Gaz. vol. 154; p. 249.
William Jessop & Sons, Limited, Sheffield, England. Metal castings and forgings. No. 79,060; Aug. 2; Gaz. vol. 157; p. 204.
William Jessop & Sons, Limited, Sheffield, England. Metal castings and forgings. No. 79,585; Sept. 20; Gaz. vol. 158; p. 698.
William Lea & Sons Company, Wilmington, Del. Wheat-flour. No. 79,132; Aug. 9; Gaz. vol. 157; p. 482.
William S. Hill Company, Boston, Mass. Wheat-flour. No. 78,517; June 21; Gaz. vol. 155; p. 796.
William S. Scull Company, Camden, N. J. Teas. No. 78,209; May 31; Gaz. vol. 154; p. 1407.
William S. Scull Company, Camden, N. J. Coffees, teas, and spices. No. 78,648; June 28; Gaz. vol. 155; p. 1039.
William Schollhorn Company, New Haven, Conn. Nippers, pliers, punches, and hand-tools. No. 77,278; Mar. 22; Gaz. vol. 152; p. 955.
Williams, Brown and Earle, Philadelphia, Pa. Filled textile fabrics. No. 78,752; July 5; Gaz. vol. 156; p. 255.
Williams & Co., R. C., New York, N. Y. Dried and evaporated fruits. No. 78,849; July 12; Gaz. vol. 156; p. 535.
Williams & Co., R. C., New York, N. Y. Canned vegetables. No. 79,947; Oct. 18; Gaz. vol. 159; p. 745.
Williams Drop Forging Co., Scranton, Pa. Horseshoes. Nos. 77,685–7; Apr. 26; Gaz. vol. 153; p. 1079.
Williams, Ephraim, New York, N. Y. Gasolene-tanks. No. 76,865; Feb. 22; Gaz. vol. 151; p. 1009.
Williams, Ernest W., Dorchester, Mass. Games. Nos. 77,279–80; Mar. 22; Gaz. vol. 152; p. 955.
Williams, Harvey & Co. Limited, Hayle, England. Tin, No. 76,805; Feb. 15; Gaz. vol. 151; p. 727.
Williams & Humbert, London, England. Sherry-wine. No. 76,499; Jan. 18; Gaz. vol. 150; p. 823.
Williams, I. A., Sparks, Ga. Medicinal remedy. No. 76,408; Jan. 11; Gaz. vol. 150; p. 566.
Williams Silk M'f'g Co., New York, N. Y. Silk in the piece. No. 76,422; Jan. 11; Gaz. vol. 150; p. 566.
Willis & Co., Grinnell, New York, N. Y. Cotton piece goods. No. 80,474; Dec. 27; Gaz. vol. 161; p. 1039.
Wilson, Emma J., Zanesville, Ohio. Remedies for certain diseases. No. 76,954; Mar. 1; Gaz. vol. 152; p. 225.
Wilson & Mayers, Washington, D. C. Certain furniture. No. 76,409; Jan. 11; Gaz. vol. 150; p. 566.
Wilson, Wm. E., Milwaukee, Wis. Artificial marble and stone. No. 76,320; Jan. 4; Gaz. vol. 150; p. 262.
Winchester Repeating Arms Co., New Haven, Conn. Rifle-sights and parts thereof. No. 76,747; Feb. 15; Gaz. vol. 151; p. 725.
Windsor Print Works, The, North Adams, Mass. Percale. Nos. 80,333–4; Dec. 6; Gaz. vol. 161; p. 264.
Windsor Print Works, North Adams, Mass., and New York, N. Y. Cretonne. No. 80,504; Dec. 27; Gaz. vol. 161; p. 1040.
Winona Mill Company, Milwaukee, Wis. Wheat-flour. No. 78,850; July 12; Gaz. vol. 156; p. 535.
Winstanley, John H., Philadelphia, Pa. Antiseptic consisting of suspended silver iodid. No. 76,635; Feb. 1; Gaz. vol. 151; p. 191.
Wire Goods Company, The, Worcester, Mass. Certain hardware and metal articles. No. 78,753; July 5; Gaz. vol. 156; p. 255.
Wisconsin Lime and Cement Company, Chicago, Ill. Bricks. No. 78,368; June 7; Gaz. vol. 155; p. 303.
Wisconsin Milling Company, Menomonie, Wis. Wheat-flour. No. 79,709; Sept. 27; Gaz. vol. 158; p. 881.
Wise, J. D., Jackson, Tenn. Certain preparations for dentists' use. No. 79,802; Oct. 4; Gaz. vol. 159; p. 239.
Witt, Otto J. J., Hamburg, Germany. Inhaling instruments and apparatus. No. 77,146; Mar. 15; Gaz. vol. 152; p. 727.
Witwer Brothers Company, Cedar Rapids, Iowa. Certain foods. No. 77,147; Mar. 15; Gaz. vol. 152; p. 727.
Wm. A. Coombs Milling Company, Coldwater, Mich. Wheat-flour. No. 78,229; May 31; Gaz. vol. 154; p. 1408.
Wm. A. Rogers, Limited, New York, N. Y. Silver-plated ware comprising flat and hollow ware. No. 77,597; Apr. 19; Gaz. vol. 153; p. 819.
Wm. A. Rogers, Limited, New York, N. Y. Silver-plated ware comprising flat and hollow ware and cutlery. No. 77,598; Apr. 19; Gaz. vol. 153; p. 819.
Wm. A. Rogers, Limited, New York and Niagara Falls, N. Y. Silver-plated ware. No. 78,642; June 28; Gaz. vol. 155; p. 1039.
Wm. B. Jennings Co., The, New York, N. Y. Woolen, cotton, linen, and silk piece goods. No. 77,502; Apr. 12; Gaz. vol. 153; p. 543.
Wm. Moore Knitting Co., Cohoes, N. Y. Knitted underwear. No. 76,410; Jan. 11; Gaz. vol. 150; p. 566.
Wohl, Albert A., Centerville Station, N. Y. Vaginal suppositories. No. 79,244; Aug. 16; Gaz. vol. 157; p. 750.
Wohltat G. m. b. H. chem. Fabrik, Schöneberg, near Berlin, Germany. Detergent composition for washing the feet. No. 78,922; July 19; Gaz. vol. 156; p. 795.
Wolf & Co., Louis, Boston, Mass. Dolls. No. 78,033; May 24; Gaz. vol. 154; p. 1104.
Wolf & Sons, H., Cincinnati, Ohio. Hosiery, undershirts, drawers, and union suits. No. 79,710; Sept. 27; Gaz. vol. 158; p. 881.
Wolterstorff-Haskell Range & Furnace Company, St. Paul, Minn. Certain stoves and heating apparatus. No. 77,857; May 10; Gaz. vol. 154; p. 511.
Wonder Specialty Company, Pittsfield, Mass., and Providence, R. I. Sweeping compounds. No. 76,423; Jan. 11; Gaz. vol. 150; p. 567.
Wonderlich, Herman, Providence, R. I. Shoe-polish. No. 76,411; Jan. 11; Gaz. vol. 150; p. 566.
Wood & Co., Thomas, Boston, Mass. Coffee. No. 79,619; Sept. 20; Gaz. vol. 158; p. 699.
Wood Products Co., Buffalo, N. Y. Methyl alcohol. No 77,777; May 3; Gaz. vol. 154; p. 249.
Woodbury Shoe Company, Portland, Me., and Beverly and Boston, Mass. Boots and shoes made wholly or partially of leather. Nos. 76,866–7; Feb. 22; Gaz. vol. 151; p. 1009.
Woolson Spice Company, Toledo, Ohio. Coffee. Nos. 78,923–4; July 19; Gaz. vol. 156; p. 795.
Woonsocket Rubber Company, Woonsocket, R. I. Rubber boots and shoes. No. 79,022; July 26; Gaz. vol. 156; p. 1063.
Worcester Woolen Mill Co., Worcester, Mass. Certain textiles. No. 77,385; Apr. 5; Gaz. vol. 153; p. 267.
Worden Meeker Varnish Co., Oakland, Cal. Varnishes, japans, oil-stains, &c. No. 78,337; June 7; Gaz. vol. 155; p. 302.
Wright & Ditson, Jersey City, N. J., and Boston, Mass. Certain sporting goods. No. 76,336; Jan. 4; Gaz. vol. 150; p. 263.
Wright & Ditson, Jersey City, N. J., and Boston, Mass. Nose-masks for foot-ball players. No. 79,381; Aug. 30; Gaz. vol. 157; p. 1241.
Wunsch, Julius E., Jersey City, N. J., and New York, N. Y. Gloves. No. 78,477; June 14; Gaz. vol. 155; p. 551.
Wyatt, Frank, Salina, Kans. Hay-stackers and sweep-rakes. No. 77,016; Mar. 1; Gaz. vol. 152; p. 227.
Y. Pendas & Alvarez, New York, N. Y. Cigars. No. 79,515; Sept. 13; Gaz. vol. 158; p. 478.
Yankee Shirt Co., New York, N. Y. Shirts. No. 78,153; May 31; Gaz. vol. 154; p. 1406.
Yeiser Hook and Eye Company, Philadelphia, Pa. Hooks and eyes. No. 76,646; Feb. 8; Gaz. vol. 151; p. 445.
Yeiser Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes. No. 78,562; June 21; Gaz. vol. 155; p. 797.
Yes Bay Canning Co., Yes Bay, Alaska, and Portland, Oreg. Canned salmon. No. 78,373; June 7; Gaz. vol. 155; p. 303.
Yeska, Joseph, New York, N. Y. Certain clothing. No. 79,023; July 26; Gaz. vol. 156; p. 1063.
Young, Ai M., Providence, R. I. Animal-traps. No. 79,540; Sept. 13; Gaz. vol. 158; p. 479.
Young Bros. Inc., Seattle, Wash. Blended coffee. No. 76,346; Jan. 4; Gaz. vol. 150; p. 263.
Young, Mahood Co., Trenton, N. J., and Pittsburg, Pa. Tea. No. 76,948; Feb. 22; Gaz. vol. 151; p. 1011.
Younker Bros., Des Moines, Iowa, and New York, N. Y. Petticoats made of textile fabric. No. 78,220; May 31; Gaz. vol. 154; p. 1407.
Zajkowski, Anthony S., Chicago, Ill. Medicines for tuberculosis. No. 79,948; Oct. 18; Gaz. vol. 159; p. 745.
Zanetti, Thomas, New York, N. Y. Hair-tonics. No. 80,013; Oct. 25; Gaz. vol. 159; p. 988.

Alphabetical list of registrants of trade-marks—Continued.

Zante Citrus Association, Portersville, Cal. Oranges, lemons, and grape-fruit. Nos. 76,609–10; Feb. 1; Gaz. vol. 151; p. 190.

Zechnowitz, Samuel, New York, N. Y. Blended coffee and cocoa. No. 80,014; Oct. 25; Gaz. vol. 159; p. 988.

Zeiss, Firm of Carl, Jena, Germany. Telescopes. Nos. 80,257–8; Nov. 22; Gaz. vol. 160; p. 1034.

Ziegler & Liebendorfer, Pittsburg, Pa. Liniment. No. 76,845; Feb. 15; Gaz. vol. 151; p. 728.

Ziegler, Percy R., Boston, Mass. Certain milk-receptacles. No. 77,350; Mar. 29; Gaz. vol. 152; p. 1221.

Zierden, William E., Johnsonburg, Pa. Valves and parts of valves. No. 79,621; Sept. 20; Gaz. vol. 158; p. 699.

Zimmerman & Company, G. F. S., Frederick, Md. Shutter-fasteners. No. 78,221; May 31; Gaz. vol. 154; p. 1407.

Zonol Products Company, New York, N. Y. Disinfectants and insecticides. No. 78,154; May 31; Gaz. vol. 154; p. 1406.

Zymole Company, The, New York, N. Y. Remedy for colds and grippe. No. 76,983; Mar. 1; Gaz. vol. 152; p. 226.

Zymole Company, The, New York, N. Y. Remedies for diseases of the eye. No. 77,858; May 10; Gaz. vol. 154; p. 511.

Zymole Company, The, New York, N. Y. Antiseptic and astringent mouth-wash. No. 79,622; Sept. 20; Gaz. vol. 158; p. 699.

Zymole Company, The, New York, N. Y. Laxatives and purgatives. No. 79,712; Sept. 27; Gaz. vol. 158; p. 881.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Aberth, Walter C., Buffalo, N. Y. "Aberth's Clothes Cleanser." (For a Compound for Cleansing Clothes.) No. 15,187; May 24; Gaz. vol. 154; p. 1106.

Acker, Merrall & Condit Company, New York, N. Y. "Celtic Tea." (For Belfast Blended Tea.) No. 15,297; Aug. 23; Gaz. vol. 157; p. 998.

Acker, Merrall & Condit Company, New York, N. Y. "Celtic Tea." (For Blended Tea.) No. 15,338; Oct. 4; Gaz. vol. 159; p. 240.

Adams, Charles A., Boston, Mass. "Golden Dome Chocolate Dixies." (For Candy.) No. 15,131; Apr. 5; Gaz. vol. 153; p. 269.

Adams, Charles A., Boston, Mass. "Chocolate Coated Tidbits." (For Candy.) No. 15,132; Apr. 5; Gaz. vol. 153; p. 269.

Adams & Elting Company, Chicago, Ill. "Ad-El-Ite." (For Paint Specialties.) No. 15,402; Nov. 22; Gaz. vol. 160; p. 1035.

Ambrosia Chocolate Company, Milwaukee, Wis. "Chocolate Bark." (For a Chocolate Confection.) No. 15,308; Aug. 30; Gaz. vol. 157; p. 1242.

Ameiss, Frederick C., St. Louis, Mo. "Wild Flower Honey." (For Honey.) No. 15,415; Dec. 6; Gaz. vol. 161; p. 265.

American Colortype Company, New York, N. Y., and Chicago, Ill. "Vuelo de Oro." (For Cigars.) No. 15,114; Mar. 8; Gaz. vol. 152; p. 486.

American Colortype Company, New York, N. Y., and Chicago, Ill. "Poppyrosa." (For Cigars.) No. 15,115; Mar. 8; Gaz. vol. 152; p. 486.

American Colortype Company, New York, N. Y., and Chicago, Ill. "La Orquita." (For Cigars.) No. 15,116; Mar. 8; Gaz. vol. 152; p. 486.

American Colortype Company, New York, N. Y., and Chicago, Ill. "La Comandita." (For Cigars.) No. 15,117; Mar. 8; Gaz. vol. 152; p. 486.

American Colortype Company, New York, N. Y., and Chicago, Ill. "Wascana." (For Cigars.) Nos. 15,125–6; Mar. 29; Gaz. vol. 152; p. 1222.

American Colortype Company, New York, N. Y., and Chicago, Ill. "La Orquita." (For Cigars.) No. 15,127; Mar. 29; Gaz. vol. 152; p. 1222.

American Colortype Company, New York, N. Y., and Chicago, Ill. "La Comandita." (For Cigars.) No. 15,128; Mar. 29; Gaz. vol. 152; p. 1222.

American Dehydrating Company, Waukesha, Wis. "Dehydro." (For Dehydrated Fruits and Vegetables.) No. 15.363; Oct. 18; Gaz. vol. 159; p. 746.

American Games Manufacturing Company, New York, N. Y. "League Base Ball Game Real Base Ball At Home." (For a Game of Base-Ball.) No. 15,403; Nov. 22; Gaz. vol. 160; p. 1035.

American Lithographic Company, New York, N. Y. "Grandmont." (For Cigars.) No. 15,358; Oct. 18; Gaz. vol. 159; p. 746.

American Type Founders Company, Jersey City, N. J. "The American Sprayer." (For Sprayers and Roller-Sprays.) No. 15,401; Nov. 22; Gaz. vol. 160; p. 1035.

Andy Dehner Cigar Co., Burlington, Iowa. "Duke of Maya." (For Cigars.) No. 15,247; July 12; Gaz. vol. 156; p. 536.

Anti-Dirt Company, The, Cleveland, Ohio. "Andico." (For a Polishing Compound.) No. 15,157; Apr. 19; Gaz. vol. 153; p. 820.

Arthur Lehman & Co., Peoria, Ill. "Jersey Whiskey." (For a Blend of Whiskies.) No. 15,262; July 26; Gaz. vol. 156; p. 1064.

Automatic Sliced Ham Co., The, Cincinnati, Ohio. "Dove Brand." (For Sliced Ham.) No. 15,178; May 17; Gaz. vol. 154; p. 834.

Automatic Sliced Ham Co., The, Cincinnati, Ohio. "Friends of The Ham." (For Sliced Ham.) No. 15,195; May 31; Gaz. vol. 154; p. 1410.

Barclay & Barclay, New York, N. Y. "Reuter's Syrup." (For a Medicinal Preparation.) No. 15,226; June 28; Gaz. vol. 155; p. 1040.

Bardos, Coleman, Jr., New York, N. Y. "Sanikon." (For Suppository.) No. 15,156; Apr. 19; Gaz. vol. 153; p. 820.

Bear, Montague M., Chicago, Ill. "Bear's Exquisite Cold Cream." (For Ointment.) No. 15,170; May 3; Gaz. vol. 154; p. 250.

Beinlich, Paul, New York, N. Y. "Beinlich's Mustard." (For Mustard.) No. 15,298; Aug. 23; Gaz. vol. 157; p. 998.

Bellingrath, Walter D., Mobile, Ala. "Southern League Ginger Ale." (For Ginger-Ale.) No. 15,277; Aug. 2; Gaz. vol. 157; p. 205.

Bennett, Burton B., Plymouth, Mich. "Base Ball Shooting Gallery." (For Toy Shooting-Galleries.) No. 15,389; Nov. 8; Gaz. vol. 160; p. 491.

Bennett, Burton B., Plymouth, Mich. "The Bugle Call, A Game of U. S. Soldiers." (For a Game.) No. 15,424; Dec. 13; Gaz. vol. 161; p. 527.

Biloxi Canning Co., Biloxi, Miss., and New Orleans, La. "New Orleans Creole Cooked Oysters." (For Canned Oysters.) No. 15,169; May 3; Gaz. vol. 154; p. 250.

Black Silk Stove Polish Works, Sterling, Ill. "Black Silk." (For Stove-Polish.) No. 15,280; Aug. 2; Gaz. vol. 157; p. 205.

Block Co., Frank E., Atlanta, Ga. "Kenesaw Biscuit." (For Biscuit.) No. 15,223; June 28; Gaz. vol. 155; p. 1040.

Block Co., Frank E., Atlanta, Ga. "Block Milk Biscuit." (For Biscuit.) No. 15,224; June 28; Gaz. vol. 155; p. 1040.

Bodek Company, W., Philadelphia, Pa. "Litewate American Silko Half Hose." (For Hosiery.) No. 15,300; Aug. 23; Gaz. vol. 157; p. 998.

Bodek Company, W., Philadelphia, Pa. "American Lady Silko Hose." (For Children's, Misses', and Women's Hosiery.) No. 15.311; Aug. 30; Gaz. vol. 157; p. 1242.

Botanical Manufacturing Co., Philadelphia, Pa. "Rat Corn." (For a Powder for Exterminating Rodents.) No. 15,357; Oct. 11; Gaz. vol. 159; p. 488.

Boyd, Robert C. L., Philadelphia, Pa. "Quaker Pills." (For Pills.) No. 15 249; July 12; Gaz. vol. 156; p. 536.

Breen, Thomas G., Boston, Mass. "Breen's British Blend." (For Blended Tea.) No. 15,331; Sept. 27; Gaz. vol. 158; p. 882.

Bridgeton Condensed Milk Co., Bridgeton, N. J. "Sharp's Sterilized Evaporated Milk." (For Evaporated Milk.) No. 15,208; June 14; Gaz. vol. 155; p. 552.

Brown Drug Co., Vancouver, Wash. "Let The Little Brownies Do The Work." (For Laxatives.) No. 15,416; Dec. 6; Gaz. vol. 161; p. 265.

Brubaker, Alson, Fargo, N. D. "Table Eggs of Quality." (For Eggs.) No. 15,141; Apr. 12; Gaz. vol. 153; p. 544.

Burns Cigar Company, Brooksville, Fla. "O. U. Auto 5¢ Cigar." (For Cigars.) No. 15,336; Oct. 4; Gaz. vol. 159; p. 240.

Burns Cigar Company, Brooksville, Fla. "Fulton's Steamboat Havana Cigars." (For Cigars.) No. 15,337; Oct. 4; Gaz. vol. 159; p. 240.

Burton Bros. & Co., New York, N. Y. "Oxidized." (For Cotton Piece Goods.) No. 15,326; Sept. 20; Gaz. vol. 158; p. 700.

Buster Brown Hosiery Mills, Chattanooga, Tenn. "Darn-Less Hosiery." (For Hosiery.) No. 15,417; Dec. 6; Gaz. vol. 161; p. 265.

C. B. Henschel Mfg. Co., Milwaukee, Wis. "Harvester." (For Cigars.) No. 15,158; Apr. 26; Gaz. vol. 153; p. 1080.

C. B. Henschel Mfg. Co., Milwaukee, Wis. "El Como." (For Cigars.) No. 15,346; Oct. 11; Gaz. vol. 159; p. 488.

C. B. Henschel Mfg. Co., Milwaukee, Wis. "La Zar." (For Cigars.) No. 15,347; Oct. 11; Gaz. vol. 159; p. 488.

C. B. Henschel Mfg. Co., Milwaukee, Wis. "Carmena." (For Cigars.) No. 15,348; Oct. 11; Gaz. vol. 159; p. 488.

C. B. Henschel Mfg. Co., Milwaukee, Wis. "Cuban Import." (For Cigars.) No. 15,349; Oct. 11; Gaz. vol. 159; p. 488.

C. B. Henschel Mfg. Co., Milwaukee, Wis. "La Pluma." (For Cigars.) No. 15,371; Oct. 25; Gaz. vol. 159; p. 990.

C. H. Masland & Sons, Philadelphia, Pa. "Highspire." (For Carpets and Floor-Coverings.) No. 15,404; Nov. 22; Gaz. vol. 160; p. 1035.

Charles H. Rath Company, Philadelphia, Pa. "Chas. H. Rath's A $\frac{A}{One}$ 1 The Best Metal-Polish on Earth." (For Metal-Polish.) No. 15,270; July 26; Gaz. vol. 156; p. 1064.

Clark, Thomas H., Dubuque, Iowa. "Wild Cherry Ade." (For Syrup for Making Beverages.) No. 15,398; Nov. 22; Gaz. vol. 160; p. 1035.

Clifford Brothers, Baltimore, Md. "Virginia Dare." (For Chocolates and Bonbons.) No. 15,151; Apr. 19; Gaz. vol. 153; p. 820.

Clinton Furniture Co., Clinton, Ohio. "Clinton-Premier Spring Beds." (For All-Wire Spring-Beds.) No. 15,312; Aug. 30; Gaz. vol. 157; p. 1242.

Closset & Devers, Portland, Oreg. "Tavern." (For Blended Coffee.) No. 15,330; Sept. 27; Gaz. vol. 158; p. 882.

Cluett, Peabody & Co., Troy, N. Y. "Margate." (For Collars.) No. 15.283; Aug. 9; Gaz. vol. 157; p. 484.

Cluett, Peabody & Co., Troy, N. Y. "Concord." (For Collars.) No. 15,284; Aug. 9; Gaz. vol. 157; p. 484.

Alphabetical list of registrants of labels—Continued.

Cluett, Peabody & Co., Troy, N. Y. "Humbert." (For Collars.) No. 15,285; Aug. 9; Gaz. vol. 157; p. 484.

Cluett, Peabody & Co., Troy, N. Y. "Bedford." (For Collars.) No. 15,286; Aug. 9; Gaz. vol. 157; p. 484.

Cluett, Peabody & Co., Troy, N. Y. "Evanston." (For Collars.) No. 15,287; Aug. 9; Gaz. vol. 157; p. 484.

Cluett, Peabody & Co., Troy, N. Y. "Tenby." (For Collars.) No. 15,288; Aug. 9; Gaz. vol. 157; p. 484.

Cluett, Peabody & Co., Troy, N. Y. "Girard." (For Collars.) No. 15,289; Aug. 9; Gaz. vol. 157; p. 484.

Cluett, Peabody & Co., Troy, N. Y. "Clifton." (For Collars.) No. 15,290; Aug. 9; Gaz. vol. 157; p. 484.

Cluett, Peabody & Co., Troy, N. Y. "Betsy Ross." (For Collars.) No. 15.291; Aug. 9; Gaz. vol. 157; p. 484.

Colgan Gum Co., Louisville, Ky. "Mint Chips." (For Chewing-Gum.) No. 15,225; June 28; Gaz. vol. 155; p. 1040.

Colgan Gum Co., Louisville, Ky. "Violet Chips." (For Chewing-Gum.) No. 15,293; Aug. 16; Gaz. vol. 157; p. 751.

Colgan Gum Co., Louisville, Ky. "Violet Chips." (For Chewing-Gum.) No. 15,315; Sept. 6; Gaz. vol. 158; p. 227.

Colgan Gum Co., Louisville, Ky. "Mint Chips." (For Chewing-Gum.) No. 15,316; Sept. 6; Gaz. vol. 158; p. 227.

Consumers Company of Rochester, N. Y., The, Rochester, N. Y. "Grape Creme." (For a Beverage Made from Grape-Juice.) No. 15,382; Nov. 8; Gaz. vol. 160; p. 491.

Continental Chemical Company of Ohio, Covington, Ky. "Ratozin." (For Rat-Exterminators.) No. 15,199; May 31; Gaz. vol. 154; p. 1410.

Cornell & Ward, New York, N. Y. "Japanese Toilet Tissue." (For Toilet-Paper.) No. 15,211; June 14; Gaz. vol. 155; p. 552.

Couch, J. A., Richmond, Va. "7 and 11." (For Blended Corn Whisky.) No. 15,213; June 21; Gaz. vol. 155; p. 798.

Curtis, Frederick S., Milwaukee, Wis. "Apex." (For Rice.) No. 15,079; Feb. 8; Gaz. vol. 151; p. 448.

Curtis, Frederick S., Milwaukee, Wis. "Cupid." (For Rice.) No. 15,110; Mar. 8; Gaz. vol. 152; p. 486.

Dalsimer, Leon, Philadelphia, Pa. "Doctor Leondos Dermatonic." (For a Medicinal Skin-Tonic.) No. 15,259; July 19; Gaz. vol. 156; p. 796.

Danove, D. C., New Orleans, La. "The Only Original Sweet Pepper Catsup." (For Pepper Catsup.) No. 15,202; June 7; Gaz. vol. 155; p. 304.

Darby Candy Co., The, Baltimore, Md. "Darby's Candy Base Ball Game." (For Confectionery.) No. 15,410; Nov. 29; Gaz. vol. 160; p. 1269.

Darby Candy Company, The, Baltimore, Md. "Pennant Chocolates Made By Darby." (For Chocolates.) No. 15,432; Dec. 27; Gaz. vol. 161; p. 1041.

Darhol Co., The, Detroit, Mich. "Peroxo." (For Toothpicks.) Nos. 15,209–10; June 14; Gaz. vol. 155; p. 552.

Davenport, D. F., Americus, Ga. "Creditor's Blue-Ledger." (For Ledgers.) No. 15,418; Dec. 6; Gaz. vol. 161; p. 265.

Dawson Salts & Water Co., Dawson Springs, Ky. "Hamby's High Ball Splits." (For Natural Carbonated Spring-Water.) No. 15,421; Dec. 13; Gaz. vol. 161; p. 527.

Dawson Salts & Water Co., Dawson Springs, Ky. "Hamby's Genuine Dawson Springs Water." (For Natural Spring-Water.) No. 15,422; Dec. 13; Gaz vol. 161; p. 527.

Day, Walter M., Westboro, Mass. "The Game Of Lobster." (For a Card Game.) No. 15,442; Dec. 27; Gaz. vol. 161; p. 1041.

De Bevoise, Walter W., Brooklyn, N. Y. "Uncle Sam." (For Candy.) No. 15,383; Nov. 8; Gaz. vol. 160; p. 491.

Deiser & Co., Albert A., Des Moines, Iowa. "Mrs. Morrison's Pure Home-Made Food Products." (For Food Products.) No. 15,078; Feb. 8; Gaz. vol. 151; p. 448.

Di Salaparuta, Enrico A. D., New York, N. Y. "Corvo Casteldaccia." (For Wine.) No. 15,207; June 14; Gaz. vol. 155; p. 552.

Dimond, James S., Franklin, N. H. "Dimond's Egg Maker and Chicken Grower." (For Poultry Food.) No. 15,198; May 31; Gaz. vol. 154; p. 1410.

Domestic Finish Starch Company, Kansas City, Mo. "Domesco Brand." (For Laundry Starch.) No. 15411; Nov. 29; Gaz. vol. 160; p. 1269.

Dorman Bros., New York, N. Y. "Darling Brand Cream Cheese." (For Cream-Cheese.) No. 15,420; Dec. 13; Gaz. vol. 161; p. 527.

Dorr, Frank W., Toledo, Ohio. "Corrosive Sublimcohol." (For a Disinfectant and Insecticide.) No. 15,094; Feb. 22; Gaz. vol. 151; p. 1012.

Dottling, George, New York, N. Y. "Bunas." (For Cigars.) No. 15,083; Feb. 22; Gaz. vol. 151; p. 1012.

Dottling, George, New York, N. Y. "Assindia." (For Cigars.) No. 15,084; Feb. 22; Gaz. vol. 151; p. 1012.

Dottling, George, New York, N. Y. "Brabantio." (For Cigars.) No. 15,085; Feb. 22; Gaz. vol. 151; p. 1012.

Dottling, George, New York, N. Y. "Adrastos." (For Cigars.) No. 15,086; Feb. 22; Gaz. vol. 151; p. 1012.

Dottling, George, New York, N. Y. "Blauhut." (For Cigars.) No. 15,097; Mar. 1; Gaz. vol. 152; p. 228.

Dottling, George, New York, N. Y. "Azori." (For Cigars.) No. 15,098; Mar. 1; Gaz. vol. 152; p. 228.

Dottling, George, New York, N. Y. "Agnola." (For Cigars.) No. 15,099; Mar. 1; Gaz. vol. 152; p. 228.

Dottling, George, New York, N. Y. "Crescendo." (For Cigars.) No 15,100; Mar. 1; Gaz. vol. 152; p. 228.

Dottling, George, New York, N. Y. "Adagio." (For Cigars.) No. 15,101; Mar. 1; Gaz. vol. 152; p. 228.

Dr. A. C. Daniels Inc., Boston, Mass. "Daniel's Witch Hazel." (For Witch-Hazel.) No. 15,186; May 24; Gaz. vol. 154; p. 1106.

E. Lichtwitz & Co., Troppan, Austria-Hungary. "Getreide-Kümmel." (For Kümmel.) No. 15,183; May 24; Gaz. vol. 154; p. 1106.

E. A. Kline & Co., Cleveland, Ohio. "Decision." (For Cigars.) No. 15,168; May 3; Gaz. vol. 154; p. 250.

E. A. Kline & Co., Cleveland, Ohio. "Opinion." (For Cigars.) No. 15,230; July 5; Gaz. vol. 156; p. 256.

E. H. Taylor, Jr., & Son, Frankfort, Ky. "Old Taylor, a Straight Kentucky Whiskey of Topmost Class." (For Whisky.) No. 15,102; Mar. 1; Gaz. vol. 152; p. 228.

Ebling Brewing Company, The, New York, N. Y. "Ebling's Braunschweiger Mumme." (For Extract of Malt and Hops.) No. 15,282; Aug. 9; Gaz. vol. 157; p. 484.

Eisenhut, Otto F., Brooklyn, N. Y. "Cherry-Ko." (For a Carbonated Tonic Beverage.) No. 15,425; Dec. 20; Gaz. vol. 161; p. 751.

Epstein, Jacob, Baltimore, Md. "Standard Mills." (For Cotton Piece Goods.) No. 15,405; Nov. 22; Gaz. vol. 160; p. 1035.

Ettinger, Oka D., Cleveland, Ohio. "Pynetar Hair Tonic." (For Hair-Tonic.) No. 15,197; May 31; Gaz. vol. 154; p. 1410.

Eugster, Albert J., New York, N. Y. "Roachleine." (For Roach-Powder.) No. 15,395; Nov. 15; Gaz. vol. 160; p. 771.

F. A. Franks Cigar Mfg. Co., St. Joseph, Mo. "Frank's Red Label." (For Cigars.) No. 15,136; Apr. 12; Gaz. vol. 153; p. 544.

Farmers' Co-Operative Remedy Co., Peoria, Ill. "Vigor Tonic." (For Stock-Powder.) No. 15,244; July 5; Gaz. vol. 156; p. 256.

Ferguson, Joseph, Chicago, Ill. "Anti-Tan." (For Massage and Face Lotion.) No. 15,427; Dec. 20; Gaz. vol. 161; p. 751.

Finlay, Dicks & Company Ltd., New Orleans, La. "La Valliere." (For Talcum Powder.) No. 15,279; Aug. 2; Gaz. vol. 157; p. 205.

Fitzpatrick Bros. Inc., Chicago, Ill. "Nix-Rub." (For Soap.) No. 15,093; Feb. 22; Gaz. vol. 151; p. 1012.

Fitzpatrick Bros. (Inc.), Chicago, Ill. "Kitchen Klenzer." (For Cleansing Compound.) No. 15,296; Aug. 16; Gaz. vol. 157; p. 751.

Floyd, Alfred E., Camden, N. J. "A Remedy For The Relief of Rheumatism, Piles, Corns, Bunnions, Sores, Sprains, Burns, Sore Throat, Felons, Tooth Ache and Blood Poisoning." (For a Medicine.) No. 15,264; July 26; Gaz. vol. 156; p. 1064.

Franco-American Food Co., The, Jersey City, N. J. "The Franco-American Food Co.'s Concentrated Tomato Soup." (For Concentrated Tomato Soup.) No. 15,193; May 31; Gaz. vol. 154; p. 1410.

Freirich & Mansell, New York, N. Y. "Sellrich Bath Sponge." (For Bath-Sponges.) No. 15,334; Sept. 27; Gaz. vol. 158; p. 882.

Ganz & Co., C. C., Aurora, Ill "O. I. C. Barb Wire Beater and Gall Powder." (For Gall-Powder.) No. 15,250; July 12; Gaz. vol. 156; p. 536.

Geisendorfer, G. M., Cascadia, Oreg. "Cascadia Natural Mineral Water." (For Natural Mineral Water.) No. 15,075; Jan. 25; Gaz. vol. 150; p. 1039.

General Service Company, The, Boston, Mass. "Moon Beam." (For Coffee.) No. 15,192; May 31; Gaz. vol. 154; p. 1410.

Geo. F. Wiemann Co., The, New York, N. Y. "Wiemann's Java Tea Blend." (For Blended Teas.) No. 15,263; July 26; Gaz. vol. 156; p. 1064.

George Frost Company, Boston, Mass. "Velvet Grip Boston Garter." (For Hose-Supporters.) No. 15,189; May 24; Gaz. vol. 154; p. 1106.

Gillham, Robert J., Orlando, Fla. "Ade O'Metto or Saw-Palmetto Ade." (For a Powder for Making a Carbonated Non-Alcoholic Beverage.) No. 15,255; July 19; Gaz. vol. 156; p. 796.

Ginseng Gum Company, The, Akron, Ohio. "Ginseng Chewing Gum." (For Chewing-Gum.) No. 15,433; Dec. 27; Gaz. vol. 161; p. 1041.

Glenn, George E., Columbus, Ohio. "Jingo." (For a Wash for Horses.) No. 15,129; Mar. 29; Gaz. vol. 152; p. 1222.

Gonzalez, Jose, New York, N. Y. "Mineola." (For Cigars.) No. 15,327; Sept. 27; Gaz. vol. 158; p. 882.

Gottmann & Kretchmer, Chicago, Ill. "Gottmann & Kretchmer Chocolate and Candy Makers." (For Chocolate and Candies.) Nos. 15,090–2; Feb. 22; Gaz. vol. 151; p. 1012.

Grosche, Bruno, New York, N. Y. "Coal Tar Disinfectant C T D." (For a Disinfectant.) No. 15,142; Apr. 12; Gaz. vol. 153; p. 544.

Alphabetical list of registrants of labels—Continued.

Grosche, Bruno, New York, N. Y. "Deodorant Dip and Disinfectant D D D." (For a Disinfectant.) No. 15,143; Apr. 12; Gaz. vol. 153; p. 544.
Gutsch, Alfred O., Sheboygan, Wis. "Lifestaff The Long Storage Beer." (For Bottled Beer.) No. 15,431; Dec. 27; Gaz. vol. 161; p. 1041.
Hall, W. A., Washington, D. C. "Hall's Star." (For Cigars.) No. 15,137; Apr. 12; Gaz. vol. 153; p. 544.
Haller Bread Co., Pittsburg, Pa. "Butter-Krust." (For Bread.) No. 15,172; May 10; Gaz. vol. 154; p. 513.
Halper, Victor, New York, N. Y. "Oxy The Peroxide Cream." (For Toilet Cream.) No. 15,185; May 24; Gaz. vol. 154; p. 1106.
Hamburger Distillery Ltd., Pittsburg, Pa. "Old Bridgeport Monongahela Pure Rye Whiskey." (For Straight Rye Whisky.) No. 15,397; Nov. 22; Gaz. vol. 160; p. 1035.
Hardiman, Geo. C., Fairport, N. Y. "Creamo." (For Soap.) No. 15,108; Mar. 1; Gaz. vol. 152; p. 228.
Hayes, Chas. R., Detroit, Mich. "Seyah." (For Cigars.) No. 15,323; Sept. 20; Gaz. vol. 158; p. 700.
Hays, Frank A., Philadelphia, Pa. "Kaptin Kiddo The Hero Doll." (For Dolls.) No. 15,261; July 19; Gaz. vol. 156; p. 796.
Heckman, William V. R., Independence, Kans. "Do Uwanta E Z Wash?" (For Washing Compound.) No. 15,181; May 17; Gaz. vol. 154; p. 834.
Heidland Baking Co., St. Louis, Mo. "Heidland's 5¢ Gold Medal Bread." (For Bread.) No. 15,231; July 5; Gaz. vol. 156; p. 256.
Henschel & Co., A. C., Chicago, Ill. "Gray Bonnet." (For Cigars.) No. 15,254; July 19; Gaz. vol. 156; p. 796.
Honeck, Frank F., Oradell, N. J. "Button-Button." (For a Game.) No. 15,190; May 24; Gaz. vol. 154; p. 1106.
Hopkins, Frank C., Keene, N. H. "Absorb-O." (For a Remedy for Diseases of Horses.) No. 15,364; Oct. 18; Gaz. vol. 159; p. 746.
Hornung, Jacob, Philadelphia, Pa. "Jacob Hornung's White Bock Beer." (For Bottled Beer.) No. 15,391; Nov. 15; Gaz. vol. 160; p. 771.
Hubbart, James E., Seattle, Wash. "Every Egg A Perfect Bait." (For Salmon-Eggs to be Used as Fish-Baits.) No. 15,439; Dec. 27; Gaz. vol. 161; p. 1041.
Hudson Wholesale Grocery Company, The, Hudson, N. Y. "Our Pride Flour." (For Flour.) No. 15,233; July 5; Gaz. vol. 156; p. 256.
Hurwitz, Albert, Pittsburg, Pa. "Hurwitz's Large Havana Stogies." (For Stogies.) No. 15,372; Oct. 25; Gaz. vol. 159; p. 990.
Huyler's, New York, N. Y. "Sweet Hearts." (For Candy Hearts.) Nos. 15,144–9; Apr. 19; Gaz. vol. 153; p. 820.
Huyler's, New York, N. Y. "Metropolitan Chocolate." (For Chocolate.) No. 15,150; Apr. 19; Gaz. vol. 153; p. 820.
Huyler's, New York, N. Y. "Sweet Hearts." (For Candy Hearts.) No. 15,164; May 3; Gaz. vol. 154; p. 250.
Huyler's, New York, N. Y. "New Process Milk Chocolate." (For Chocolate.) No. 15,278; Aug. 2; Gaz. vol. 157; p. 205.
Huyler's, New York, N. Y. "Chantecler Chocolate Candies." (For Chocolate Candies.) No. 15,353; Oct. 11; Gaz. vol. 159; p. 488.
Huyler's, New York, N. Y. "Salted Peanuts Skyscraper Brand." (For Salted Peanuts.) No. 15,374; Oct. 25; Gaz. vol. 159; p. 990.
Hygienic Food Co., Battle Creek, Mich. "Swift's Mapl-Wheat." (For Breakfast Food.) No. 15,104; Mar. 1; Gaz. vol. 152; p. 228.
Hygienic Food Co., Battle Creek, Mich. "Sister Products." (For Prepared Breakfast Foods.) No. 15,154; Apr. 19; Gaz. vol. 153; p. 820.
Hygienic Food Co., Battle Creek, Mich. "Mapl-Corn Flakes." (For Prepared Breakfast Foods.) No. 15,155; Apr. 19; Gaz. vol. 153; p. 820.
Imperial Remedy Co., Buffalo, N. Y. "Imperial Derma-Creme." (For Massage-Cream.) No. 15,243; July 5; Gaz. vol. 156; p. 256.
Imperial Remedy Co., Buffalo, N. Y. "So-Ezy." (For Foot-Powder.) No. 15,333; Sept. 27; Gaz. vol. 158; p. 882.
Independent Bakery Co., St. Louis, Mo. "Independent Bakery Co. Eagle Bread." (For Bread.) No. 15,332; Sept. 27; Gaz. vol. 158; p. 882.
Independent Brewing Co., The, Seattle, Wash. "Old German Lager." (For Beer.) No. 15,274; Aug. 2; Gaz. vol. 157; p. 205.
Indian Hermit Spring Co., Hartford, Conn. "Indian Hermit Mineral Water." (For Natural Mineral Water.) No. 15,119; Mar. 8; Gaz. vol. 152; p. 486.
Iten Biscuit Co., Omaha, Nebr. "Anu-Biscuit." (For Biscuits.) No. 15,232; July 5; Gaz. vol. 156; p. 256.
J. K. Orr Shoe Company, Atlanta, Ga. "Once A Year." (For Shoes.) No. 15,406; Nov. 22; Gaz. vol. 160; p. 1035.
J. K. Orr Shoe Company, Atlanta, Ga. "Work In Comfort With Economy." (For Shoes.) No. 15,407; Nov. 22; Gaz. vol. 160; p. 1035.
Jacobs & Holtzinger Co., Windsor borough, Pa. "White Ox." (For Cigars.) No. 15,095; Mar. 1; Gaz. vol. 152; p. 228.
Jacobs & Holtzinger Co., Windsor borough, Pa. "Gobler." (For Cigars.) No. 15,096; Mar. 1; Gaz. vol. 152; p. 228.
James A. McAteer & Sons, Inc., Pittsburg, Pa. "Fruit and Cereal." (For Powdered Sugar.) No. 15,256; July 19; Gaz. vol. 156; p. 796.
James R. Heusler Ale Brg. Co., The, Newark, N. J. "Heuslers Ale." (For Ale.) No. 15,138; Apr. 12; Gaz. vol. 153; p. 544.
John H. Rennard Co., Wheeling, W. Va. "West Virginia Apples." (For Apples.) No. 15,362; Oct. 18; Gaz. vol. 159; p. 746.
Johnson, David D., Chicago, Ill. "Evergreen Brand Flower and Lawn Fertilizer." (For Fertilizer.) No. 15,200; May 31; Gaz. vol. 154; p. 1410.
Joseph H. Bearns, Jr., & Co., New York, N. Y. "Peerless." (For Stamp-Inking Pads.) No. 15,441; Dec. 27; Gaz. vol. 161; p. 1041.
Kamenstein, Myer, New York, N. Y. "The Home Wash Boiler." (For Washboilers.) No. 15,221; June 21; Gaz. vol. 155; p. 798.
Kammerer Davis Mfg. Co., New York, N. Y. "World's Metal Polish." (For Metal-Polish.) No. 15,396; Nov. 15; Gaz. vol. 160; p. 771.
Karle Lithographic Company, Rochester, N. Y. "Burlington Brew." (For Beer.) No. 15,166; May 3; Gaz. vol. 154; p. 250.
Kelhetter, Leon, New York, N. Y. "Eagle Brand." (For Olive-Oil.) No. 15,134; Apr. 5; Gaz. vol. 153; p. 269.
Kiewitz, Arthur A., New York, N. Y. "Bull Dog Gloves." (For Kid Gloves.) No. 15,443; Dec. 27; Gaz. vol. 161; p. 1041.
Knoblauch & Co., Chicago, Ill. "Pop-o Crystals." (For a Confection.) No. 15,123; Mar. 22; Gaz. vol. 152; p. 956.
Kraner, George A., Marion, Ohio. "The Game Of Uncle Sam." (For a Card Game.) No. 15,345; Oct. 4; Gaz. vol. 159; p. 240.
Kreipe Cigar Co. R. T., Topeka, Kans. "Almora." (For Cigars.) No. 15,139; Apr. 12; Gaz. vol. 153; p. 544.
Kunz, Bertha R., Newark, N. J. "B R K Germicide." (For a Germicide.) No. 15,375; Oct. 25; Gaz. vol. 159; p. 990.
L. F. Grammes & Sons, Allentown, Pa. "Keystone Escutcheon Pins." (For Escutcheon-Pins.) No. 15,412; Nov. 29; Gaz. vol. 160; p. 1269.
Larkin, Peter C., Toronto, Ontario, Canada, and New York, N. Y. "Salada." (For Coffee.) No. 15,184; May 24; Gaz. vol. 154; p. 1106.
Levi, Isadore E., Erie, Pa. "Kerolene." (For Inhalers and Inhalants.) No. 15,076; Jan. 25; Gaz. vol. 150; p. 1039.
Lithos Chemical Company, The, New York, N. Y. "Bryant's Benzine." (For Fireproof Benzin.) No. 15,400; Nov. 22; Gaz. vol. 160; p. 1035.
Lloyd Manufacturing Co., New York, N. Y. "Buster Brown Ruby Brand Sparklers." (For Fireworks.) No. 15,222; June 21; Gaz. vol. 155; p. 798.
Long, John F., Camden, N. J. "El Dictator." (For Cigars.) No. 15,281; Aug. 9; Gaz. vol. 157; p. 484.
Lowry, Homer T., San Diego, Cal. "Lowry's Besti Water." (For Eye-Water.) No. 15,317; Sept. 6; Gaz. vol. 158; p. 227.
Maury-Cole Company, Memphis, Tenn. "Canova." (For Coffee.) No. 15,118; Mar. 8; Gaz. vol. 152; p. 486.
McGuirk, Michael, Minneapolis, Minn. "Gov. Johnson." (For Cigars.) No. 15,212; June 21; Gaz. vol. 155; p. 798.
Meharry, Harry L., San Francisco, Cal. "White Rose Sunkist Brand." (For Honey.) No. 15,314; Sept. 6; Gaz. vol. 158; p. 227.
Mendell, Jacob, New York, N. Y. "Mendell's Jiu Jitsu Kandi Suker." (For Candy.) No. 15,240; July 5; Gaz. vol. 156; p. 256.
Miner, William H., Chazy, N. Y. "Heart's Delight Farm, Strictly Pure Maple Syrup." (For Maple-Syrup.) No. 15,103; Mar. 1; Gaz. vol. 152; p. 228.
Miner, William H., Chazy, N. Y. "Delicious Sausages, Heart's Delight Farm." (For Sausages.) No. 15,105; Mar. 1; Gaz. vol. 152; p. 228.
Moehle Lithographic Co., The, New York, N. Y. "Colonial Pride." (For Cigars.) No. 15,087; Feb. 22; Gaz. vol. 151; p. 1012.
Moehle Lithographic Co., The, New York, N. Y. "La Rosa de Cuba." (For Cigars.) No. 15,088; Feb. 22; Gaz. vol. 151; p. 1012.
Moehle Lithographic Co., The, New York, N. Y. "Cuban Club." (For Cigars.) No. 15,089; Feb. 22; Gaz. vol. 151; p. 1012.
Moehle Lithographic Co., The, New York, N. Y. "La Vista Del Vuelta." (For Cigars.) No. 15,175; May 17; Gaz. vol. 154; p. 834.
Moehle Lithographic Co., The, New York, N. Y. "Banner Oak." (For Cigars.) No. 15,176; May 17; Gaz. vol. 154; p. 834.
Moehle Lithographic Co., The, New York, N. Y. "John Trumbull." (For Cigars.) No. 15,177; May 17; Gaz. vol. 154; p. 834.

Alphabetical list of registrants of labels—Continued.

Moehle Lithographic Co., The, New York, N. Y. "Banner Rose." (For Cigars.) No. 15,191; May 31; Gaz. vol. 154; p. 1410.

Moehle Lithographic Co., The, New York, N. Y. "High Ranger." (For Cigars.) No. 15,206; June 14; Gaz. vol. 155; p. 552.

Montana, Pietro, Buffalo, N. Y. "Regina d'Italia." (For Flour.) No. 15,234; July 5; Gaz. vol. 156; p. 256.

Montana, Pietro, Buffalo, N. Y. "Stella d'Italia." (For Flour.) No. 15,235; July 5; Gaz. vol. 156; p. 256.

Moroney, James, Philadelphia, Pa. "Round the World Scotch." (For Scotch Whisky.) No. 15,082; Feb. 15; Gaz. vol. 151; p. 729.

Mueller & Son Co., The, Milwaukee, Wis. "Bay Of Naples." (For Macaroni.) No. 15,306; Aug. 30; Gaz. vol. 157; p. 1242.

Naes, Louis, St. Louis, Mo. "Little Naes." (For Cigars.) No. 15,408; Nov. 29; Gaz. vol. 160; p. 1269.

National Chemical and Supply Company, The, Columbus, Ohio. "The Red Star Embalming Fluid." (For an Embalming Fluid.) No. 15,121; Mar. 8; Gaz. vol. 152; p. 486.

Nature's Creation Company, The, Columbus, Ohio. "The Nature's Creation Co's Discovery." (For a Remedy for Tuberculosis.) No. 15,106; Mar. 1; Gaz. vol. 152; p. 228.

Nelson Bros., Chicago, Ill. "Kleenhanz." (For a Compound for Cleaning the Hands.) No. 15,356; Oct. 11; Gaz. vol. 159; p. 488.

Neptune Packing Co., Booth Bay Harbor, Me. "Golden Fin Brand Native Smoked Sardines." (For Canned Smoked Sardines.) No. 15,379; Nov. 1; Gaz. vol. 160; p. 256.

New Orleans Coffee Co., New Orleans, La. "French Market." (For Roasted Coffee and Chicory.) No. 15,171; May 10; Gaz. vol. 154; p. 513.

Newton Gum Co., San Francisco, Cal. "Fruito." (For Chewing-Gum.) No. 15,434; Dec. 27; Gaz. vol. 161; p. 1041.

Newton Gum Co., San Francisco, Cal. "Minto." (For Chewing-Gum.) No. 15,435; Dec. 27; Gaz. vol. 161; p. 1041.

Nichols & Co., Austin, New York, N. Y. "Sunbeam Pure Food." (For Raisins.) No. 15,361; Oct. 18; Gaz. vol. 159; p. 746.

Nicholson, Jacob H., Baltimore, Md. "Limko Extract." (For an Extract for Making Beverages.) No. 15,329; Sept. 27; Gaz. vol. 158; p. 882.

Nissequogue Canning Co., The, Smithtown Branch, N. Y. "Rose Brand." (For Bottled Clam-Juice.) No. 15,124; Mar. 29; Gaz. vol. 152; p. 1222.

O. E. Olsen Litho Co., San Francisco, Cal. "Poppy Apple Label." (For Apples.) No. 15,384; Nov. 8; Gaz. vol. 160; p. 491.

O. E. Olsen Litho Co., San Francisco, Cal. "Blossom Apple Label." (For Apples.) No. 15,385; Nov. 8; Gaz. vol. 160; p. 491.

O. S. Jones Seed Co., Sioux Falls, S. D. "Jones' Potato Bug Killer." (For Potato-Bug Killer.) No. 15,267; July 26; Gaz. vol. 156; p. 1064.

O. S. Jones Seed Co., Sioux Falls, S. D. "Jones' Cabbage Worm Killer." (For Cabbage-Worm Killer.) No. 15,268; July 26; Gaz. vol. 156; p. 1064.

O'Brian & Co., A. W., Hutchinson, Kans. "Germa Oil." (For a Medicine.) No. 15,196; May 31; Gaz. vol. 154; p. 1410.

O'Connell, J. V., St. Louis, Mo. "Jose Ribera." (For Cigars.) No. 15,390; Nov. 15; Gaz. vol. 160; p. 771.

Ormiston, Guy A., Arkansas City, Kans. "Step-Into Shoe." (For Shoes.) No. 15,335; Sept. 27; Gaz. vol. 158; p. 882.

Ormiston, Guy A., Arkansas City, Kans. "Step-Into Shoe." (For Shoes.) No. 15,381; Nov. 1; Gaz. vol. 160; p. 256.

Osborn Paper Company, Marion, Ind. "The Double Q Composition Book." (For Blank Books.) No. 15,214; June 21; Gaz. vol. 155; p. 798.

Osborn Paper Company, Marion, Ind. "Klondike Tablet." (For Writing-Tablets.) No. 15,215; June 21; Gaz. vol. 155; p. 798.

Osborn Paper Company, Marion, Ind. "Royal Exercise Book." (For Writing Books or Tablets.) No. 15,339; Oct. 4; Gaz. vol. 159; p. 240.

Osborn Paper Company, Marion, Ind. "Royal Pen & Pencil Tablet." (For Writing Books or Tablets.) No. 15,365; Oct. 18; Gaz. vol. 159; p. 746.

Osborn Paper Company, Marion, Ind. "Royal Theme Tablet." (For Writing Books or Tablets.) No. 15,366; Oct. 18; Gaz. vol. 159; p. 746.

Osborn Paper Company, Marion, Ind. "Royal Writing Book." (For Writing Books or Tablets.) No. 15,367; Oct. 18; Gaz. vol. 159; p. 746.

Osborn Paper Company, Marion, Ind. "Royal Note Books." (For Writing Note-Books.) No. 15,368; Oct. 18; Gaz. vol. 159; p. 746.

Osborn Paper Company, Marion, Ind. "Royal Composition Book." (For Writing Books or Tablets.) No. 15,369; Oct. 18; Gaz. vol. 159; p. 746.

Osborn Paper Company, Marion, Ind. "School Tablet Royal." (For Writing Books or Tablets.) No. 15,370; Oct. 18; Gaz. vol. 159; p. 746.

Osborn Paper Company, Marion, Ind. "Royal Spelling Book." (For Books or Tablets for Use in Writing Out Spelling Exercises.) No. 15,388; Nov. 8; Gaz. vol. 160; p. 491.

Oxygen Products Company, New York, N. Y. "'O. P. C.' 'Javarice' Face Powder." (For Face-Powders.) No. 15,295; Aug. 16; Gaz. vol. 157; p. 751.

P. Q. Medicine Co., St. Paul, Minn. "P. Q." (For Medicine.) No. 15,107; Mar. 1; Gaz. vol. 152; p. 228.

Pabst, Geo., San Antonio, Tex. "Velvetone Hair Tonic." (For Hair-Tonic.) No. 15,180; May 17; Gaz. vol. 154; p. 834.

Parrett, Richard J., Elkhart, Ind. "The Parrot." (For a Vegetable Compound for Medicinal Purposes.) No. 15,266; July 26; Gaz. vol. 156; p. 1064.

Paul F. Beich Co., Bloomington, Ill. "Lady Betty." (For Chocolates.) No. 15,354; Oct. 11; Gaz. vol. 159; p. 488.

Peerless Ink Manufacturing Company, Philadelphia, Pa. "Sur-Pas Ink." (For a Polishing Preparation.) No. 15,245; July 5; Gaz. vol. 156; p. 256.

Peter Schroeder Brewing Co., Perham, Minn. "Wonder Brew." (For Bottled Beer.) No. 15,167; May 3; Gaz. vol. 154; p. 250.

Phoenix, E. C., Folsom, Cal. "Olivedale Brand California Ripe Olives." (For Ripe Olives.) No. 15,294; Aug. 16; Gaz. vol. 157; p. 751.

Pillsbury, Ira L., Galesburg, Ill. "Pillsbury's Carnation Staple." (For Staples for Mending Carnations.) No. 15,111; Mar. 8; Gaz. vol. 152; p. 486.

Platky, Leon, New York, N. Y. "Joeckelseal." (For a Substitute for Sealskin.) No. 15,113; Mar. 8; Gaz. vol. 152; p. 486.

Portland Dental Mfg. Co., Portland, Me. "Glycoline Tooth Wash." (For Tooth-Wash.) No. 15,077; Jan. 25; Gaz. vol. 150; p. 1039.

Portland Dental Mfg. Co., Portland, Me. "Glycoline Tooth Powder." (For Tooth-Powder.) No. 15,120; Mar. 8; Gaz. vol. 152; p. 486.

Portland Rice Milling Co., Portland, Oreg. "Crystal." (For Rice.) No. 15,354; Oct. 11; Gaz. vol. 159; p. 488.

Prym Company, The William, New York, N. Y. "Prym's See Its Spring." (For Dress-Fasteners.) No. 15,318; Sept. 6; Gaz. vol. 158; p. 227.

Purity M'f'g. Co., Vincennes, Ind. "Purity Baking Powder." (For Baking-Powder.) No. 15,133; Apr. 5; Gaz. vol. 153; p. 269.

Quaker City Chocolate & Confectionery Co. Inc., Philadelphia, Pa. "Ferndale." (For Chocolates.) No. 15,159; Apr. 26; Gaz. vol. 153; p. 1080.

Quinn, Dennis J., Manchester, N. H. "Quinn's Red Top 10¢ Cigars." (For Cigars.) No. 15,292; Aug. 16; Gaz. vol. 157; p. 751.

Ralston Purina Company, St. Louis, Mo. "Purina Whole Wheat Bread." (For Whole-Wheat Bread.) No. 15,438; Dec. 27; Gaz. vol. 161; p. 1041.

Reed, George L., Denver, Colo. "Boulder Creamery Butter." (For Butter.) No. 15,351; Oct. 11; Gaz. vol. 159; p. 488.

Reusser, Fritz, New York, N. Y. "Sauce Mignonne." (For Sauces for Foods.) No. 15,360; Oct. 18; Gaz. vol. 159; p. 746.

Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Richmond Dye." (For Hosiery.) No. 15,201; May 31; Gaz. vol. 154; p. 1410.

Rippen, Hyman, Perth Amboy, N. J. "H. Rippen Cork Tip." (For Cigarettes.) No. 15,273; Aug. 2; Gaz. vol. 157; p. 205.

Rizzo & Co., Michael, Boston, Mass. "Rizzo's Dandruff Remedy." (For Hair and Scalp Tonic.) No. 15,423; Dec. 13; Gaz. vol. 161; p. 527.

Rommel, Karl H., Rochester, Minn. "Chocolate Nuts." (For Prepared Food.) No. 15,179; May 17; Gaz. vol. 154; p. 834.

Ronemous Sign Company, Inc., The, Baltimore, Md. "Top-N-Och." (For Bread.) No. 15,194; May 31; Gaz. vol. 154; p. 1410.

Rooten, Harris, New York, N. Y. "No-Sticky to the Washy." (For a Tablet to be Added to the Starch to Prevent Sticking.) No. 15,074; Jan. 4; Gaz. vol. 150; p. 264.

Rosenberg & Sons, A., Chicago, Ill. "The Highland." (For Bloomer-Dresses.) No. 15,220; June 21; Gaz. vol. 155; p. 798.

Royal Havana Cigar Mfg. Co., Baltimore, Md. "Universal Victor." (For Cigars.) No. 15,140; Apr. 12; Gaz. vol. 153; p. 544.

Ruppert, Jacob, New York, N. Y. "Knickerbocker Beer." (For Beer.) No. 15,275; Aug. 2; Gaz. vol. 157; p. 205.

Ruppert, Jacob, New York, N. Y. "Ruppert's Tonic." (For Malt Beverage.) No. 15,276; Aug. 2; Gaz. vol. 157; p. 205.

Ryan, Thomas J., New York, N. Y. "Peptomulsion." (For an Emulsion of Cod-Liver Oil, Containing Hypophosphites of Calcium and Sodium, Pepsin, and Guiacol.) No. 15,436; Dec. 27; Gaz. vol. 161; p. 1041.

Sanborn, George W., Astoria, Oreg. "Lucky Dog." (For Canned Salmon.) No. 15,380; Nov. 1; Gaz. vol. 160; p. 256.

Sanchez, Salvador y Ca., Tampa, Fla. "Dulce." (For Cigars.) No. 15,229; July 5; Gaz. vol. 156; p. 256.

Alphabetical list of registrants of labels—Continued.

Sankey, D. W., Mifflinburg, Pa. "The Life Of Leather." (For a Preparation for Preserving Leather.) No. 15,440; Dec. 27; Gaz. vol. 161; p. 1041.
Sattler, Gustav, New York, N. Y. "Restorina." (For Hair-Dye.) No. 15,203; June 7; Gaz. vol. 155; p. 304.
Saylor & Co., G. S., Ankona, Fla. "Gator Brand." (For Pineapples.) No. 15,307; Aug. 30; Gaz. vol. 157; p. 1242.
Schmidt & Co., New York, N. Y. "Walsh." (For Cigars.) No. 15,271; Aug. 2; Gaz. vol. 157; p. 205.
Schmidt & Co., New York, N. Y. "Gran Reina." (For Cigars.) No. 15,272; Aug. 2; Gaz. vol. 157; p. 205.
Schmidt & Co., New York, N. Y. "Tampa Style." (For Cigars.) No. 15,302; Aug. 30; Gaz. vol. 157; p. 1242.
Schmidt & Co., New York, N. Y. "100,000 Club." (For Cigars.) No. 15,303; Aug. 30; Gaz. vol. 157; p. 1242.
Schmidt & Co., New York, N. Y. "Red-Rim." (For Cigars.) No. 15,304; Aug. 30; Gaz. vol. 157; p. 1242.
Schmidt & Co., New York, N. Y. "Regalia Imperial." (For Cigars.) No. 15,313; Sept. 6; Gaz. vol. 158; p. 227.
Schmidt & Co., New York, N. Y. "Flor." (For Cigars.) No. 15,359; Oct. 18; Gaz. vol. 159; p. 746.
Schmidt & Co., New York, N. Y. "Cuban Inn." (For Cigars.) No. 15,376; Nov. 1; Gaz. vol. 160; p. 256.
Schmidt & Co., New York, N. Y. "Daily Report." (For Cigars.) No. 15,377; Nov. 1; Gaz. vol. 160; p. 256.
Schuler, William C., Jr., Cincinnati, Ohio. "Rheumola." (For Medicines for Rheumatic Diseases.) No. 15,173; May 10; Gaz. vol. 154; p. 513.
Scott Paper Company, Philadelphia, Pa. "Scot Tissue." (For Paper Toweling.) No. 15,355; Oct. 11; Gaz. vol. 159; p. 488.
Sealshipt Oyster System, South Norwalk, Conn. "Sealshipt Oysters." (For Oysters.) No. 15,305; Aug. 30; Gaz. vol. 157; p. 1242.
Sears, Roebuck and Co., Chicago, Ill. "Williams Knickerbocker Rawhides." (For Whips.) No. 15,161; Apr. 26; Gaz. vol. 153; p. 1080.
Sears, Roebuck and Co., Chicago, Ill. "Williams Spanish Rose Rawhide." (For Whips.) No. 15,162; Apr. 26; Gaz. vol. 153; p. 1080.
Sears, Roebuck and Co., Chicago, Ill. "Williams Gray Fox Rawhide." (For Whips.) No. 15,163; Apr. 26; Gaz. vol. 153; p. 1080.
Sears, Roebuck and Co., Chicago, Ill. "Gossau Madeira Finish Embroidery." (For Embroidery.) No. 15,174; May 10; Gaz. vol. 154; p. 513.
Sears, Roebuck and Co., Chicago, Ill. "Pansy Kid Dolls." (For Dolls.) No. 15,216; June 21; Gaz. vol. 155; p. 798.
Sears, Roebuck and Co., Chicago, Ill. "Violet Kid Dolls." (For Dolls.) No. 15,217; June 21; Gaz. vol. 155; p. 798.
Sears, Roebuck and Co., Chicago, Ill. "American Beauty Kid Dolls." (For Dolls.) No. 15,218; June 21; Gaz. vol. 155; p. 798.
Sears, Roebuck and Co., Chicago, Ill. "Sunshine Kid Dolls." (For Dolls.) No. 15,219; June 21; Gaz. vol. 155; p. 798.
Sears, Roebuck and Co., Chicago, Ill. "Golden Crown." (For Knitting-Yarns.) No. 15,253; July 12; Gaz. vol. 156; p. 536.
Sears, Roebuck and Co., Chicago, Ill. "Magic Rawhide." (For Whips.) No. 15,319; Sept. 13; Gaz. vol. 158; p. 480.
Sears, Roebuck and Co., Chicago, Ill. "Gladstone Rawhide." (For Whips.) No. 15,320; Sept. 13; Gaz. vol. 158; p. 480.
Sears, Roebuck and Co., Chicago, Ill. "Remington Rawhide." (For Whips.) No. 15,321; Sept. 13; Gaz. vol. 158; p. 480.
Sears, Roebuck and Co., Chicago, Ill. "Hindoo Through Rawhide." (For Whips.) No. 15,322; Sept. 13; Gaz. vol. 158; p. 480.
Sears, Roebuck and Co., Chicago, Ill. "Little Cherub." (For Dolls.) No. 15,340; Oct. 4; Gaz. vol. 159; p. 240.
Sears, Roebuck and Co., Chicago, Ill. "Knock Out." (For Dolls.) No. 15,341; Oct. 4; Gaz. vol. 159; p. 240.
Sears, Roebuck and Co., Chicago, Ill. "Dainty Dorothy." (For Dolls.) No. 15,342; Oct. 4; Gaz. vol. 159; p. 240.
Sears, Roebuck and Co., Chicago, Ill. "Wear Well." (For Dolls.) No. 15,343; Oct. 4; Gaz. vol. 159; p. 240.
Sears, Roebuck and Co., Chicago, Ill. "Tiny Toy." (For Dolls.) No. 15,344; Oct. 4; Gaz. vol. 159; p. 240.
Seneca Dried Fruit Co., Rochester, N. Y. "Pyramid Brand." (For Evaporated Apples.) No. 15,153; Apr. 19; Gaz. vol. 153; p. 820.
Seneca Dried Fruit Company, Rochester, N. Y. "Arctic Brand." (For Evaporated Apples.) No. 15,236; July 5; Gaz. vol. 156; p. 256.
Seneca Dried Fruit Company, Rochester, N. Y. "Magnolia Brand." (For Evaporated Apples.) No. 15,237; July 5; Gaz. vol. 156; p. 256.
Seneca Dried Fruit Company, Rochester, N. Y. "Polar Brand." (For Evaporated Apples.) No. 15,238; July 5; Gaz. vol. 156; p. 256.
Seneca Dried Fruit Company, Rochester, N. Y. "Plymouth Brand." (For Evaporated Apples.) No. 15,239; July 5; Gaz. vol. 156; p. 256.
Seneca Dried Fruit Company, Rochester, N. Y. "Pilgrim Brand." (For Evaporated Apples.) No. 15,258; July 19; Gaz. vol. 156; p. 796.
Shackelton, Wilson C., Chicago, Ill. "Shacks Shoe Sole Saver." (For Liquid Preparation for Preserving and Waterproofing Shoe-Soles.) No. 15,246; July 5; Gaz. vol. 156; p. 256.
Skudowitz, I. B., New York, N. Y. "Union Square Waist." (For Waists.) No. 15,413; Nov. 29; Gaz. vol. 160; p. 1269.
Smith, Alice P., Chicago, Ill. "Savory Mustard Catsup." (For Catsup.) No. 15,242; July 5; Gaz. vol. 156; p. 256.
Smith Brothers Hardware Co., Oakland, Cal. "Gold Medal Metal Polish." (For Metal-Polish.) No. 15,112; Mar. 8; Gaz. vol. 152; p. 486.
Snyder-Chaffee Co., The, Columbus, Ohio. "The Taste Tells The Tale." (For Chocolates.) No. 15,409; Nov. 29; Gaz. vol. 160; p. 1269.
St. Louis Brewing Association, St. Louis, Mo. "Hyde Park Bottled Beer." (For Beer.) No. 15,081; Feb. 15; Gaz. vol. 151; p. 729.
Standard Ink Co., Buffalo, N. Y. "Standard Blue Black Writing Fluid." (For Ink.) No. 15,160; Apr. 26; Gaz. vol. 153; p. 1080.
Stoltenberg, John, Chicago, Ill. "Royal Luncheon Brick Cheese." (For Brick-Cheese.) No. 15,257; July 19; Gaz. vol. 156; p. 796.
Stone Hill Wine Co., St. Louis, Mo. "Stone Hill Wine Co." (For Brandy, Cognac Style.) No. 15,328; Sept. 27; Gaz. vol. 158; p. 882.
Stone Hill Wine Co., St. Louis, Mo. "Ozark Queen." (For Sweet Scuppernong Wine.) No. 15,373; Oct. 25; Gaz. vol. 159; p. 990.
Stumpf, Richard, Baltimore, Md. "Iron Wild Cherry And Honey Phosphates." (For a Medicine.) No. 15,437; Dec. 27; Gaz. vol. 161; p. 1041.
Surgical Oil Manufacturing Company, Los Angeles, Cal. "Antipyogen." (For Surgical Dressings.) No. 15,394; Nov. 15; Gaz. vol. 160; p. 771.
Suss, M. T. D., John M., Visalia, Cal. "Cancer Remedy, Suss Original Cancer Remedy." (For Cancer Remedy.) No. 15,265; July 26; Gaz. vol. 156; p. 1064.
Swan, Lyman H., University City, Mo. "Swan's Great Discovery—A Tonic For The Lungs And The Stomach." (For a Medicine.) No. 15,309; Aug. 30; Gaz. vol. 157; p. 1242.
Taylor Brothers Company, Battle Creek, Mich. "Sorority Chocolates." (For Candy.) No. 15,152; Apr. 19; Gaz. vol. 153; p. 820.
Tetlow, Clara, Philadelphia, Pa. "La Princesse Therese." (For Toilet Talcum Powder.) No. 15,135; Apr. 5; Gaz. vol. 153; p. 269.
Tetlow, Clara, Philadelphia, Pa. "Helene Varre." (For Toilet Talcum Powder.) No. 15,182; May 17; Gaz. vol. 154; p. 834.
The Star Pin Company, Derby and Shelton, Conn. "Sharps." (For Toilet-Pins.) No. 15,188; May 24; Gaz. vol. 154; p. 1106.
Torrence, James S., San Francisco, Cal. "Special Metaloid Process Razor Strops." (For Razor-Strops.) No. 15,428; Dec. 20; Gaz. vol. 161; p. 751.
Towson, Emory S., Philadelphia, Pa. "Capital and Labor." (For a Puzzle.) No. 15,252; July 12; Gaz. vol. 156; p. 536.
Tully Broom Company, Tully, N. Y. "The Jewel Broom." (For Brooms.) No. 15,414; Nov. 29; Gaz. vol. 160; p. 1269.
Turtle Bros., New York, N. Y. "T. B. Dress Linen." (For Dress-Linen.) No. 15,228; June 28; Gaz. vol. 155; p. 1040.
Tyler, Phyledus S., Buffalo, N. Y. "Hindura." (For Preparation for Polishing.) No. 15,122; Mar. 8; Gaz. vol. 152; p. 486.
Union Co-operative Association, Newark, N. J. "E-Z-Laks." (For Medicated Chocolates of a Laxative Nature.) No. 15,387; Nov. 8; Gaz. vol. 160; p. 491.
Union Co-operative Association, Newark, N. J. "Auto-Laks." (For Medicated Chocolates of a Laxative Nature.) No. 15,399; Nov. 22; Gaz. vol. 160; p. 1035.
United States Gypsum Company, The, Jersey City, N. J., and Chicago, Ill. "Adamant the Perfection of Exterior Plaster." (For Exterior Plaster.) No. 15,204; June 7; Gaz. vol. 155; p. 304.
United States Gypsum Company, The, Jersey City, N. J., and Chicago, Ill. "Adamant the Perfection of Wall Plaster." (For Wall-Plaster.) No. 15,205; June 7; Gaz. vol. 155; p. 304.
United States Sugar and Land Company, Garden City, Kans. "Sunflower Brand Extra Fine Granulated Sugar." (For Granulated Sugar.) No. 15,419; Dec. 13; Gaz. vol. 161; p. 527.
Vafiadis & Co., Theodoro, Boston, Mass., and Cairo, Egypt. "Manufactory Of Choice Egyptian Cigarettes." (For Cigarettes.) No. 15,378; Nov. 1; Gaz. vol. 160; p. 256.
Victor Talking Machine Company, Camden, N. J. "Victor Record." (For Records of Sound.) No. 15,080; Feb. 8; Gaz. vol. 151; p. 448.
W. E. Jenkins Cigar Co., Kansas City, Mo. "Charles The Fourth." (For Cigars.) No. 15,350; Oct. 11; Gaz. vol. 159; p. 488.
W. T. Welisch & Co., Inc., San Francisco, Cal. "Virgin." (For Head-Rice.) No. 15,386; Nov. 8; Gaz. vol. 160; p. 491.

Alphabetical list of registrants of labels—Continued.

Wallerstein Produce Co., Richmond, Va. "Sun Brand." (For Dried Apples.) No. 15,392; Nov. 15; Gaz. vol. 160; p 771.

Weipert, John A., St. Louis, Mo. "Maldehyde." (For Antiseptic Preparation, Astringent, and Germicide.) No. 15,310; Aug. 30; Gaz. vol. 157; p. 1242.

Wendell and Co., Chicago, Ill. "The W Co Scientific Ruby." (For Artificially-Made Rubies.) No. 15,299; Aug. 23; Gaz. vol. 157; p. 998.

Wendell & Co., Chicago, Ill. "The W. Co. Scientific White Sapphire." (For Artificially-Made White Sapphires.) No. 15,324; Sept. 20; Gaz. vol. 158; p. 700.

Wendell & Co., Chicago, Ill. "The W. Co. Scientific Sapphire." (For Artificially-Made Sapphires.) No. 15,325; Sept. 20; Gaz. vol. 158; p. 700.

Werrbach, Charles F., Philadelphia, Pa. "Werrbach's Samaritan Remedy." (For a Medicine.) No. 15,426; Dec. 20; Gaz. vol. 161; p. 751.

Westcott, Slade & Balcom Company, Providence, R. I. "To Wa-Kon." (For a Liquid Floor-Finish.) No. 15,227; June 28; Gaz. vol. 155; p. 1040.

Western Novelty M'fg Company, Rock Island, Ill. "Lustre Creme." (For Polishing Preparation.) No. 15,269; July 26; Gaz. vol. 156; p. 1064.

Wilkes, William M., Indianapolis, Ind. "Ooze." (For Soap.) No. 15,393; Nov. 15; Gaz. vol. 160; p. 771.

William Prym, Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Topitall." (For Hooks and Eyes.) No. 15,260; July 19; Gaz. vol. 156; p. 796.

William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Prym's See Its Spring." (For Dress-Fasteners.) No. 15,429; Dec. 20; Gaz. vol. 161; p. 751.

William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "The Comet." (For Invisible Hooks and Loops.) No. 15,430; Dec. 20; Gaz. vol. 161; p. 751.

Wilmanns Bros. Co., Milwaukee, Wis. "Ehren Bräu." (For Old German Style of Beer.) No. 15,109; Mar. 8; Gaz. vol. 152; p. 486.

Wilson, Radcliff A., Brooklyn, N. Y. "Photo Stamp." (For Miniature Photographs.) No. 15,251; July 12; Gaz. vol. 156; p. 536.

Worrell, Lillie B., Dayton, Ohio. "Lily Brand Fruit Tablets." (For Flavored Candies.) No. 15,248; July 12; Gaz. vol. 156; p. 536.

Zavitsiano, Autonomos S., New York, N. Y. "Karya." (For Confectionery.) No. 15,241; July 5; Gaz. vol. 156; p. 256.

Zeman-Collins Shoe Co., Pittsburg, Pa. "Walk-Offer Shoe for Men." (For Men's Shoes.) No. 15,301; Aug. 23; Gaz. vol. 157; p. 998.

Zuckerman, Joseph, New York, N. Y. "Sole-In." (For Rendering Shoes Waterproof.) No. 15,165; May 3; Gaz. vol. 154; p. 250.

PRINTS.

A. Schoenhut Company, The, Philadelphia, Pa. "Schoenhut." (For Toy Pianos.) No. 2,581; Apr. 12; Gaz. vol. 153; p. 544.

A. C. Becken Company, Chicago, Ill. "Improved Complete Mainspring Order Sheet." (For Mainspring for Watches.) No. 2,625; Aug. 2; Gaz. vol. 157; p. 205.

Alexander Brothers, Philadelphia, Pa. "Long Service Outweighs Price." (For Leather Belting.) No. 2,590; May 3; Gaz. vol. 154; p. 250.

Ambrookian & Co., H. O., New York, N. Y. "Rug." (For Rugs.) No. 2,660; Nov. 1; Gaz. vol. 160; p. 256.

American Steel & Wire Company of New Jersey, Chicago, Ill. "Roadside Scene, American Fence." (For Wire Fences.) No. 2,588; May 3; Gaz. vol. 154; p. 250.

American Tobacco Company, The, New York, N. Y. "Riz La + Cigarette Paper." (For Cigarette-Papers.) No. 2,633; Aug. 30; Gaz. vol. 157; p. 1242.

American Watch Tool Company, Waltham, Mass. "Webster-Whitcomb Three Slided Slide Rest." (For Three-Slided Slide-Rests.) No. 2,626; Aug. 2; Gaz. vol. 157; p. 205.

American Watch Tool Company, Waltham, Mass. "Webster-Whitcomb Improved Universal Head and Jaws." (For Universal Heads and Jaws.) No. 2,627; Aug. 2; Gaz. vol. 157; p. 205.

American Watch Tool Company, Waltham, Mass. "Webster-Whitcomb Improved Universal Plate and Jaws." (For Universal Plates and Jaws.) No. 2,628; Aug. 2; Gaz. vol. 157; p. 205.

American Watch Tool Company, Waltham, Mass. "Webster-Whitcomb Screw Tailstock." (For Screw Tail-Stocks.) No. 2,650; Oct. 11; Gaz. vol. 159; p. 488.

Anderson, William C., Detroit, Mich. "Stack Enamels." (For Stack-Enamels.) No. 2,611; July 5; Gaz. vol. 156; p. 256.

Arguto Oilless Bearing Company, Philadelphia and Wayne Junction, Pa. "Arguto." (For Non-Metallic Bearings.) No. 2,583; Apr. 12; Gaz. vol. 153; p. 544.

Best & Co., New York, N. Y. "'Best' Snow Pants." (For Boys' Knit Pants.) No. 2,646; Oct. 4; Gaz. vol. 159; p. 240.

Blair Camera Division Eastman Kodak Co., Rochester, N. Y. "Hawk-Eye Cameras." (For Cameras.) No. 2,601; June 7; Gaz. vol. 155; p. 304.

Braham, Lewis, Chicago, Ill. "Something New! The Brahams Phantographs." (For Phantographs.) No. 2,603; June 14; Gaz. vol. 155; p. 552.

Burnet and Temple Limited, London, England. "The Outlook Human Hair Net." (For Hair-Nets.) No. 2,605; June 21; Gaz. vol. 155; p. 798.

California Fruit Distributors, Sacramento, Cal. "Luscious Tokay Grapes." (For Tokay Grapes.) No. 2,670; Nov. 29; Gaz. vol. 160; p. 1269.

Chamberlin Metal Weather Strip Co., Detroit, Mich. "Chamberlin Equipment." (For Metal Weather-Strips.) No. 2,651; Oct. 11; Gaz. vol. 159; p. 488.

Charles Smith Company, Chicago, Ill. "The Modern Method of Heating and Ventilating a School Room." (For Heating Apparatus.) No. 2,592; May 17; Gaz. vol. 154; p. 834.

Cluett, Peabody & Company, Troy, N. Y. "The New Arrow Collars." (For Collars.) No. 2,612; July 5; Gaz. vol. 156; p. 256.

Cluett, Peabody & Company, Troy, N. Y. "A Cluett Shirt." (For Shirts.) No. 2,613; July 5; Gaz. vol. 156; p. 256

Cluett, Peabody & Company, Troy, N. Y. "Margate An Arrow Collar." (For Collars.) No. 2,644; Oct. 4; Gaz. vol. 159; p. 240.

Cluett, Peabody & Company, Troy, N. Y. "New Arrow Notch Collars." (For Collars.) No. 2,664; Nov. 8; Gaz. vol. 160; p. 491.

Cluett, Peabody & Company, Troy, N. Y. "The Donchester Is A Cluett Dress Shirt." (For Shirts.) No. 2,665; Nov. 8; Gaz. vol. 160; p. 491.

Cluett, Peabody & Company, Troy, N. Y. "Arrow Collars and Cluett Shirts." (For Collars and Shirts.) No. 2,666; Nov. 8; Gaz. vol. 160; p. 491.

Cluett, Peabody & Company, Troy, N. Y. "Cluett Shirts." (For Shirts.) No. 2,672; Dec. 6; Gaz. vol. 161; p. 265.

Cream of Wheat Co., Minneapolis, Minn. "Encore." (For Wheat Breakfast Food.) No. 2,585; Apr. 19; Gaz. vol. 153; p. 820.

Cream of Wheat Co., Minneapolis, Minn. "Children and Clock." (For Wheat Breakfast Food.) No. 2,587; May 3; Gaz. vol. 154; p. 250.

Cream of Wheat Co., Minneapolis, Minn. "A Cereal Serial Story." (For Wheat Breakfast Food.) No. 2,617; July 12; Gaz. vol. 156; p. 536.

Cream of Wheat Co., Minneapolis, Minn. "King Arthur." (For Wheat Breakfast Food.) No. 2,629; Aug. 9; Gaz. vol. 157; p. 484.

Cream of Wheat Co., Minneapolis, Minn. "Becky, I Know Him." (For Wheat Breakfast Food.) No. 2,642; Sept. 20; Gaz. vol. 158; p. 700.

Cream of Wheat Co., Minneapolis, Minn. "Country Life In America." (For Wheat Breakfast Food.) No. 2,656; Nov. 1; Gaz. vol. 160; p. 256.

Cream of Wheat Co., Minneapolis, Minn. "A Sweetly Solemn Thought." (For Wheat Breakfast Food.) No. 2,661; Nov. 8; Gaz. vol. 160; p. 491.

Cream of Wheat Co., Minneapolis, Minn. "Don't Forget Cream Of Wheat." (For Wheat Breakfast Food.) No. 2,671; Dec. 6; Gaz. vol. 161; p. 265.

Curtis, William M., Boston, Mass. "Baby's Own Soap." (For Soap.) No. 2,649; Oct. 11; Gaz. vol. 159; p. 488.

Cutler-Hammer Mfg. Co., The, Milwaukee, Wis. "Aunt Dinah On Ironing Day." (For Electric Heating Devices.) No. 2,657; Nov. 1; Gaz. vol. 160; p. 256.

Dallas, John C., San Antonio, Tex. "Leon Valley Magnesia Water." (For Magnesia Water.) No. 2,610; July 5; Gaz. vol. 156; p. 256.

David, Benjamin E., New York, N. Y. "B. E. D. Bengaline Poplin." (For Silk and Wool Fabrics.) No. 2,634; Aug. 30; Gaz. vol. 157; p. 1242.

Edward & John Burke Limited, New York, N. Y. "Burke's Blotter March 1910." (For Stout.) No. 2,559; Mar. 22; Gaz. vol. 152; p. 956.

Empire Rubber Mfg. Co., Trenton, N. J. "Tulip Fruit Jar Ring." (For Jar-Rings.) No. 2,580; Apr. 12; Gaz. vol. 153; p. 544.

Fireproof Furniture & Construction Company, New York, N. Y. "Steel Art." (For Steel Filing-Cases.) No. 2,636; Aug. 30; Gaz. vol. 157; p. 1241.

Florence Manufacturing Company, Northampton, Mass. "Pro-Phy-Lac-Tic Tooth Brush." (For Tooth-Brushes.) No. 2,669; Nov. 22; Gaz. vol. 160; p. 1035.

Folmer & Schwing Division Eastman Kodak Co., Rochester, N. Y. "Graflex." (For Cameras.) No. 2,614; July 5; Gaz. vol. 156; p. 256.

Frey, Jos. M., Aurora, Ill. "Order Your Beer By Number." (For Lager-Beer.) No. 2,655; Nov. 1; Gaz. vol. 160; p. 256.

Glass & Company, Henry, New York, N. Y. "Mercerized XX Poplin." (For Mercerized Poplin.) No. 2,658; Nov. 1; Gaz. vol. 160; p. 256.

Gray Lithograph Co., The, New York, N. Y. "Ask the Man." (For Raven Aperient.) No. 2,579; Apr. 12; Gaz. vol. 153; p. 544.

Greenfield's Son & Co., E., New York, N. Y. "Greenfield's Chocolate Sponge and Delatour Chocolates." (For Chocolate Candy.) No. 2,565; Apr. 5; Gaz. vol. 153; p. 269.

H. C. White Co., North Bennington, Vt. "The Radioptican in the Home." (For Advertising Purposes for Projecting-Lanterns.) No. 2,631; Aug. 9; Gaz. vol. 157; p. 484.

Hammondsport Vintage Co., Penn Yan, N. Y. "Gilt Edge Champagne." (For Champagne.) No. 2,654; Nov. 1; Gaz. vol. 160; p. 256.

Harris, Mark G., Chicago, Ill. "The Mark G. Harris Easy Sleeve." (For Coats.) No. 2,640; Sept. 13; Gaz. vol. 158; p. 480.

Hart, Charles M. (See Inglee and Hart.)

Hayes Lithographing Co., The, Buffalo, N. Y. "Deering." (For Mowing-Machines.) No. 2,560; Mar. 29; Gaz. vol. 152; p. 1222.

Hersch, William A., Parkersburg, W. Va. "All Suits All Overcoats $15 No More No Less." (For Suits and Overcoats.) No. 2,637; Sept. 6; Gaz. vol. 158; p. 227.

Holipeter, Edward E., Detroit, Mich. "Hello Bill!" (For Cigars.) No. 2,643; Oct. 4; Gaz. vol. 159; p. 240.

Inglee, Lewis, and C. M. Hart, Amityville, N. Y. "Safety Stopper for Poison Bottles." (For Stoppers for Bottles.) No. 2,564; Mar. 29; Gaz. vol. 152; p. 1222.

Interwoven Stocking Company, New Brunswick, N. J. "Interwoven." (For Hosiery.) No. 2,652; Oct. 25; Gaz. vol. 159; p. 990.

James A. Blanchard Co., The, New York, N. Y. "Lion Brand Agricultural Sprays." (For Spraying Materials.) No. 2,607; June 21; Gaz. vol. 155; p. 798.

Jordan & Co., William H., Gloucester, Mass. "Seasbest." (For Cured Salt Fish.) No. 2,630; Aug. 9; Gaz. vol. 157; p. 484.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Teasing." (For Toasted Corn-Flakes.) No. 2,618; July 12; Gaz. vol. 156; p. 536.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "The Indian." (For Toasted Corn Flakes.) No. 2,632; Aug. 23; Gaz. vol. 157; p. 998.

Alphabetical list of registrants of prints—Continued.

Kewanee Boiler Company, Kewanee, Ill. "Cross-Section Showing Construction of Stoddard-Kewanee Water-Heating Garbage-Burner." (For Water-Heating Garbage-Burner.) No. 2,574; Apr. 5; Gaz. vol. 153; p. 269.

Kewanee Boiler Company, Kewanee, Ill. "Stoddard-Kewanee Garbage-Burner Connected to Kewanee Tank." (For Garbage-Burner.) No. 2,575; Apr. 5; Gaz. vol. 153; p. 269.

Kewanee Boiler Company, Kewanee, Ill. "Sectional View Showing Stoddard-Kewanee Water-Heating Garbage-Burner in Operation." (For Garbage-Burner.) No. 2,576; Apr. 5; Gaz. vol. 153; p. 269.

Kewanee Boiler Company, Kewanee, Ill. "The Stoddard-Kewanee Water-Heating Garbage-Burner." (For Garbage-Burner.) No. 2,577; Apr. 5; Gaz. vol. 153; p. 269.

Kronberger, Israel B., San Rafael, Cal. "Kronberger's California Eucalyptus." (For Eucalyptus Cough-Syrup and Gargle.) No. 2,578; Apr. 12; Gaz. 153; p. 544.

Main, Willard F., Iowa City, Iowa. "Piano Evolution." (For Pianos.) No. 2,608; June 21; Gaz. vol. 155; p. 798.

Marshall-Wells Hardware Company, Duluth, Minn. "Wireless Alarms." (For Alarm-Clocks.) No. 2,582; Apr. 12; Gaz. vol. 153; p. 544.

McCarter, W. W., Beaumont, Tex. "Method of Casting Gas Engine Pistons." (For Gas-Engine Pistons.) No. 2,597; May 31; Gaz. vol. 154; p. 1410.

McMurray Sulky Co., The, Marion, Ohio. "The McMurray Sulky Co." (For Sulkies.) No. 2,615; July 5; Gaz. vol. 156; p. 256.

Mendelsohn, Felix, Chicago, Ill. "Mendelsohn's Newspaper Cut Service for Brewers and Bottlers." (For Beer.) No. 2,602; June 14; Gaz. vol. 155; p. 552.

Muto Sales Co., Rochester, N. Y. "Muto Convertible." (For Collars for Garments.) No. 2,606; June 21; Gaz. vol. 155; p. 798.

New Home Sewing Machine Company, The, Orange, Mass. "New Home." (For Sewing-Machines.) No. 2,673; Dec. 13; Gaz. vol. 161; p. 527.

Newhoff, Lee, New York, N. Y. "(I-Want-A) Boys and Girls Rompers and Union Suits." (For Rompers, Union Suits, Pajamas, Nighties, Blouses, and Play-Suits.) No. 2,674; Dec. 20; Gaz. vol. 161; p. 751.

Noiseless Typewriter Company, The, Middletown, Conn. "The Noiseless Typewriter." (For Type-Writers.) No. 2,663; Nov. 8; Gaz. vol. 160; p. 491.

O. J. Gude Co., The, New York, N. Y. "One of the Sights of The Great White Way." (For Champagne.) No. 2,598; June 7; Gaz. vol. 155; p. 304.

O. J. Gude Co., The, New York, N. Y. "Chanticler's First Appearance On Broadway." (For Hunyadi Janos, a Natural Laxative Water.) No. 2,624; Aug. 2; Gaz. vol. 157; p. 205.

Pratt & Lambert, Inc., Buffalo, N. Y. "You May Dent The Wood But You Can't Crack the Varnish." (For Floor-Varnish.) No. 2,594; May 31; Gaz. vol. 154; p. 1410.

Pratt & Lambert, Inc., Buffalo, N. Y. "Test it With Your Heel." (For Floor-Varnish.) No. 2,595; May 31; Gaz. vol. 154; p. 1410.

Pulsometer Steam Pump Co., New York, N. Y. "The Pulsometer Steam Pump." (For Steam-Pumps.) No. 2,675; Dec. 20; Gaz. vol. 161; p. 751.

Reckitts (U. S. A.) Ltd., New York, N. Y. "Only A Dip." (For Laundry Bluing.) No. 2,645; Oct. 4; Gaz. vol. 159; p. 240.

Richardson & Robbins Co., Dover, Del. "Better Than I Can Make." (For Plum-Pudding.) No. 2,667; Nov. 15; Gaz. vol. 160; p. 771.

Schulte, Henry H., East Orange, N. J. "Ronda Potato." (For Potatoes.) No. 2,662; Nov. 8; Gaz. vol. 160; p. 491.

Schulz, John D. H., Brooklyn, N. Y. "Our Mill Will Fill the Bill." (For Lace Curtains.) No. 2,623; July 26; Gaz. vol. 156; p. 1064.

Schumann Piano Company, Rockford, Ill. "Built Like a Violin." (For Pianos.) No. 2,641; Sept. 13; Gaz. vol. 158; p. 480.

Sears, Roebuck and Co., Chicago, Ill. "Cut of Mattress." (For Mattresses.) Nos. 2,566–73; Apr. 5; Gaz. vol. 153; p. 269.

Seed Filter & Mfg. Company, New York, N. Y. "Gas Heater." (For Gas-Heaters.) No. 2,653; Oct. 25; Gaz. vol. 159; p. 990.

Sheppard-Strassheim Co., Chicago, Ill. "Lururie." (For Cigars.) No. 2,589; May 3; Gaz. vol. 154; p. 250.

Shredded Wheat Company, The, Niagara Falls, N. Y. "A Whole Wheat Food." (For Shredded Wheat.) No. 2,676; Dec. 27; Gaz. vol. 161; p. 1041.

Simonson, A., New York, N. Y. "Plait Nattée." (For Human-Hair Goods.) No. 2,584; Apr. 19; Gaz. vol. 153; p. 820.

Simpson Spring Co., Easton, Mass. "The Simpson Girl." (For Beverages.) No. 2,668; Nov. 22; Gaz. vol. 160; p. 1035.

Smith & Agnew Disinfectant Co., New York, N. Y. "Anti Germ Disinfectant Powder." (For Carbolic Disinfectant-Powder.) No. 2,639; Sept. 13; Gaz. vol. 158; p. 480.

Standard Folding Typewriter Sales Co., New York, N. Y. "Standard Folding Typewriter." (For Type-Writing Machines.) No. 2,593; May 24; Gaz. vol. 154; p. 1106.

Steefel, Strauss & Connor, Rochester, N. Y. "Clever Clothes." (For Garments.) No. 2,635; Aug. 30; Gaz. vol. 157; p. 1242.

Thompson, Joseph, Sioux City, Iowa. "'Eureka' Cloth-Cleaning Pad." (For Cloth-Cleaning Pads.) No. 2,596; May 31; Gaz. vol. 154; p. 1410.

Treiber, T. R., Kansas City, Mo. "Let There Be Light." (For Street-Lamps.) No. 2,620; July 19; Gaz. vol. 156; p. 796.

Treiber, T. R., Kansas City, Mo. "The Pool Room As A Business Proposition." (For Billiard and Pool Tables.) No. 2,621; July 19; Gaz. vol. 156; p. 796.

Treiber, T. R., Kansas City, Mo. "Why Some Pool Halls Are Refused License." (For Billiard and Pool Tables.) No. 2,622; July 19; Gaz. vol. 156; p. 796.

W. F. Powers Company, The, New York, N. Y. "Ask Her Any Time." (For Pureoxia Ginger-Ale.) No. 2,586; May 3; Gaz. vol. 154; p. 250.

W. F. Powers Company, The, New York, N. Y. "The Life Saver." (For Rubber Boots.) No. 2,659; Nov. 1; Gaz. vol. 160; p. 256.

Washburn Crosby Company, Minneapolis, Minn. "The Breakfast Question." (For Flour.) No. 2,557; Mar. 8; Gaz. vol. 152; p. 486.

Washburn Crosby Company, Minneapolis, Minn. "A Woman's Answer." (For Flour.) No. 2,558; Mar. 8; Gaz. vol. 152; p. 486.

Washburn Crosby Company, Minneapolis, Minn. "Have You Heard About This?" (For Flour.) No. 2,561; Mar. 29; Gaz. vol. 152; p. 1222.

Washburn Crosby Company, Minneapolis, Minn. "When You Buy." (For Flour.) No. 2,562; Mar. 29; Gaz. vol. 152; p. 1222.

Washburn Crosby Company, Minneapolis, Minn. "Simplified Flour Mill Model." (For Flour.) No. 2,563; Mar. 29; Gaz. vol. 152; p. 1222.

Washburn Crosby Company, Minneapolis, Minn. "Best for Biscuits Also." (For Flour.) No. 2,599; June 7; Gaz. vol. 155; p. 304.

Washburn Crosby Company, Minneapolis, Minn. "Washburn-Crosby Mills." (For Flour.) No. 2,600; June 7; Gaz. vol. 155; p. 304.

Washburn Crosby Company, Minneapolis, Minn. "In Justice to the Cook." (For Flour.) No. 2,604; June 21; Gaz. vol. 155; p. 798.

Washburn Crosby Company, Minneapolis, Minn. "These Men—And A Thousand More." (For Flour.) No. 2,609; July 5; Gaz. vol. 156; p. 256.

Washburn Crosby Company, Minneapolis, Minn. "July 4th." (For Flour.) No. 2,616; July 12; Gaz. vol. 156; p. 536.

Washburn Crosby Company, Minneapolis, Minn. "The Foundation of Successful Baking." (For Flour.) No. 2,638; Sept. 13; Gaz. vol. 158; p. 480.

Washburn Crosby Company, Minneapolis, Minn. "Light Housekeepers." (For Flour.) No. 2,647; Oct. 11; Gaz. vol. 159; p. 488.

Washburn Crosby Company, Minneapolis, Minn. "Baking Fit To Write About." (For Flour.) No. 2,648; Oct. 11; Gaz. vol. 159; p. 488.

Whitney Co., The, Brooklyn, N. Y. "Nothing Is Too Good For Baby." (For Devices for keeping Babies Covered.) No. 2,619; July 19; Gaz. vol. 156; p. 796

Williams, Bradford L., Camden, N. J., and Philadelphia, Pa. "'Elite' Cloth Cleaning Pad." (For Cleaning-Pads.) No. 2,591; May 17; Gaz. vol. 154; p. 834.

DISCLAIMERS.

Allsop, Thomas, and Walter W. Sibson, Philadelphia, Pa.; disclaimer filed by assignee, The Philadelphia Drying Machinery Company. Singeing-machine. No. 919,999; disclaimer filed June 10, 1910; Gaz. vol. 155; p. 803.

Bauer, Carl E., Chicago, Ill.; disclaimer filed by assignee, Simplex Railway Appliance Company. Bolster. No. 593,410; disclaimer filed Feb. 16, 1910; Gaz. vol. 151; p. 1017.

Crane, Henry M., New York, N. Y.; disclaimer filed by the assignee, Western Electric Company. Electromagnetic signal-controlling device. No. 890,220; disclaimer filed Dec. 6, 1910; Gaz. vol. 161; p. 533.

Jenkins, Merrill L., Harvey, Ill.; disclaimer filed by inventor and assignee, Buda Foundry and Manufacturing Company. Railroad track-car. No. 910,201; disclaimer filed Oct. 13, 1910; Gaz. vol. 159; p. 995.

Kribs, Seraphin, Brooklyn, N. Y.; disclaimer filed by executors of the assignee, William Brookfield, deceased. Press for making screw-insulators. No. 542,565; disclaimer filed Feb. 25, 1910; Gaz. vol. 152; p. 491.

Lindberg, Martin F., Helsingborg, Sweden; disclaimer filed by patentee. Edge-setter iron with stitch-wheel. No. 839,012; disclaimer filed June 27, 1910; Gaz. vol. 156; p. 261.

Mathesius, Alexander H., Brooklyn, N. Y.; disclaimer filed by inventor. Guide-wheel. No. 754,473; disclaimer filed Sept. 24, 1910; Gaz. vol. 159; p. 244.

Shem, George W., Alliance, Ohio; disclaimer filed by assignee, The Alliance Machine Company. Crane. No. 791,951; disclaimer filed Mar. 28, 1910; Gaz. vol. 153; p. 1.

Widmer, Howard G., Brooklyn, N. Y.; disclaimer filed by assignee, Continental Paper Bag Company. Paper bag. No. 904,167; disclaimer filed Jan. 21, 1910; Gaz. vol. 151; p. 197.

Widmer, Howard G., Brooklyn, N. Y., disclaimer filed by assignee, Continental Paper Bag Company. Self-opening bag. No. 904,168; disclaimer filed Jan. 21, 1910; Gaz. vol. 151; p. 198.

Widmer, Howard G., Brooklyn, N. Y., disclaimer filed by assignee, Continental Paper Bag Company. Self-opening paper bag. No. 904,169; disclaimer filed Jan. 21, 1910; Gaz. vol. 151; p. 198.

ALPHABETICAL LIST OF INVENTIONS.

[Abbreviations: "Sp."=Monthly Volume of Specifications; "Gaz."=Official Gazette.]

Abdominal adjuster, reducer, supporter, and retainer. A. Harris. No. 960,908; June 7; Sp. p. 1340; Gaz. vol. 155; p. 225.

Abdominal and pelvic supporter. E. F. Small. No. 970,961; Sept. 20; Sp. p. 3879; Gaz. vol. 158; p. 663.

Abdominal bandage. J. Beltermann. No. 965,556; July 26; Sp. p. 5546; Gaz. vol. 156; p. 945.

Abdominal belt and uterine supporter. E. M. OMeara. No. 950,514; Mar. 1; Sp. p. 115; Gaz. vol. 152; p. 19.

Abdominal belt or supporter. A. B. Kendrick. No. 947,412; Jan. 25; Sp. p. 5365; Gaz. vol. 150; p. 899.

Abdominal-fat-reducing appliance. A. M. Loughney. No. 951,648; Mar. 8; Sp. p. 2402; Gaz. vol. 152; p. 416.

Abdominal retractor. J. E. Sparks. No. 955,006; Apr. 12; Sp. p. 2856; Gaz. vol. 153; p. 484.

Abdominal supporter. E. Schulte-Uechting. No. 961,166; June 14; Sp. p. 1869; Gaz. vol. 155; p. 339.

Abdominal supporter. L. N. Saemann. No. 966,863; Aug. 9; Sp. p. 2235; Gaz. vol. 157; p. 367.

Abdominal supporter. S. H. Sublett, Sr. No. 967,081; Aug. 9; Sp. p. 2692; Gaz. vol. 157; p. 442.

Abdominal supporter. M. W. Ferris. No. 974,045; Oct. 25; Sp. p. 5517; Gaz. vol. 159; p. 956.

Abdominal supporter and catamenial sack, Combined. R. H. and M. L. Keagy. No. 976,883; Nov. 29; Sp. p. 6170; Gaz. vol. 160; p. 1063.

Abrading apparatus. G. A. Hassel. No. 963,437; July 5; Sp. p. 956; Gaz. vol. 156; p. 142.

Abrading-block and carrier therefor. R. Gardner. No. 970,619; Sept. 20; Sp. p. 3137; Gaz. vol. 158; p. 547.

Abrading-cylinder. J. R. Thomas. No. 949,249; Feb. 15; Sp. p. 3069; Gaz. vol. 151; p. 543.

Abrading-machine. J. Heinz. No. 957,674; May 10; Sp. p. 2499; Gaz. vol. 154; p. 432.

Abrading-machine. F. C. Rowell and J. L. Nolan. No. 960,408; June 7; Sp. p. 346; Gaz. vol. 155; p. 58.

Abrading-machine. J. M. Nash. No. 969,183; Sept. 6; Sp. p. 88; Gaz. vol. 158; p. 14.

Abrading-machines, Dust-gatherer for. T. G. Plant. No. 965,223; July 26; Sp. p. 4790; Gaz. vol. 156; p. 828.

Abrading-roller. R. and W. Stipe. No. 967,079; Aug. 9; Sp. p. 2690; Gaz. vol. 157; p. 441.

Abrading-surface. E. F. Smith. No. 973,986; Oct. 25; Sp. p. 5390; Gaz. vol. 159; p. 936.

Abrading-wheel. R. Gardner. No. 970,618; Sept. 20; Sp. p. 3136; Gaz. vol. 158; p. 547.

Abrading-wheels, Tool for truing. O. H. Collmer. No. 970,992; Sept. 20; Sp. p. 3936; Gaz. vol. 158; p. 673.

Abrasive apparatus. O. C. Wysong. No. 968,726; Aug. 30; Sp. p. 6183; Gaz. vol. 157; p. 1080.

Abrasive article. F. W. Higgins. No. 978,747; Dec. 13; Sp. p. 2883; Gaz. vol. 161; p. 488.

Abrasive article, Carborundum. F. J. Tone. No. 978,679; Dec. 13; Sp. p. 2738; Gaz. vol. 161; p. 466.

Abrasive machine. J. C. Blevney and J. Hausman. No. 980,054; Dec. 27; Sp. p. 5701; Gaz. vol. 161; p. 981.

Abrasive material and making it. L. E. Saunders. No. 954,766; Apr. 12; Sp. p. 2328; Gaz. vol. 153; p. 402.

Abrasive material and mounting. R. Gardner. No. 966,540; Aug. 9; Sp. p. 1521; Gaz. vol. 157; p. 260.

Absorber. N. H. Hiller. No. 970,050; Sept. 13; Sp. p. 1963; Gaz. vol. 158; p. 333.

Accordion. J. J. Neumann. No. 957,514; May 10; Sp. p. 2174; Gaz. vol. 154; p. 376.

Accordion. K. Goliasch. No. 961,120; June 14; Sp. p. 1782; Gaz. vol. 155; p. 323.

Accordion or concertina. R. C. Leppert. No. 978,460; Dec. 13; Sp. p. 2249; Gaz. vol. 161; p. 390.

Account apparatus, Credit-. J. T. Brooke. No. 972,154; Oct. 11; Sp. p. 1405; Gaz. vol. 159; p. 252.

Account-cabinet. A. S. Machen. No. 951,017; Mar. 1; Sp. p. 1137; Gaz. vol. 152; p. 185.

Account-keeping apparatus, Manifolding. C. F. Hudnall. No. 960,931; June 7; Sp. p. 1374; Gaz. vol. 155; p. 232.

Account-register. J. E. Cunin and W. G. Ferguson. No. 947,610; Jan. 25; Sp. p. 5814; Gaz. vol. 150; p. 966.

Account-register. A. F. Staples and C. W. Potter. (Reissue.) No. 13,091; Mar. 8; Sp. p. 2702; Gaz. vol. 152; p. 466.

Account-register. H. C. Guetschoff. No. 953,608; Mar. 29; Sp. p. 6521; Gaz. vol. 152; p. 1165.

Accounting device. W. Ellis. No. 978,995; Dec. 20; Sp. p. 3403; Gaz. vol. 161; p. 599.

Accounting-machine. C. Wales. No. 976,234; Nov. 22; Sp. p. 4746; Gaz. vol. 160; p. 814.

Accumulator. M. Schneider. No. 948,639; Feb. 8; Sp. p. 1827; Gaz. vol. 151; p. 314.

Accumulator, Steam-regenerative. A. C. E. Rateau. No. 968,194; Aug. 23; Sp. p. 5035; Gaz. vol. 157; p. 868.

Accumulator, Steam-regenerative. E. Eckmann. No. 969,257; Sept. 6; Sp. p. 230; Gaz. vol. 158; p. 37.

Acenaphthene-quinone, &c., Condensing reduction products of. K. Elbel. No. 965,170; July 26; Sp. p. 4683; Gaz. vol. 156; p. 812.

Acetyl-cellulose-coated material, Producing. L. Lederer. No. 954,310; Apr. 5; Sp. p. 1310; Gaz. vol. 153; p. 217.

Acetylene-burner. F. M. Casto. No. 960,818; June 7; Sp. p. 1172; Gaz. vol. 155; p. 195.

Acetylene-generator. C. C. Wakefield. No. 952,286; Mar. 15; Sp. p. 3689; Gaz. vol. 152; p. 659.

Acetylene-generator. C. F. Spaulding. No. 960,051; May 31; Sp. p. 7886; Gaz. vol. 154; p. 1324.

Acetylene-generator. F. C. Sanford. No. 965,949; Aug. 2; Sp. p. 206; Gaz. vol. 157; p. 36.

Acetylene-generator. R. F. Reyntiens and H. J. Meertens. No. 967,558; Aug. 16; Sp. p. 3675; Gaz. vol. 157; p. 632.

Acetylene-generator. C. W. Beck. No. 971,346; Sept. 27; Sp. p. 4676; Gaz. vol. 158; p. 818.

Acetylene-generator. F. E. Stover. No. 972,285; Oct. 11; Sp. p. 1687; Gaz. vol. 159; p. 297.

Acetylene-generator. C. W. Beck. No. 978,266; Dec. 13; Sp. p. 1845; Gaz. vol. 161; p. 323.

Acetylene generator and torch. A. F. Jenkins. No. 956,358; Apr. 26; Sp. p. 5791; Gaz. vol. 153; p. 1007.

Acetylene generator and torch. A. F. J. Johnson, (by judicial change of name now A. F. Jenkins.) No. 956,359; Apr. 26; Sp. p. 5795; Gaz. vol. 153; p. 1007.

Acetylene generator and torch, Portable. A. F. Jenkins. No. 960,643; June 7; Sp. p. 828; Gaz. vol. 155; p. 136.

Acetylene-generator-feeding apparatus. N. Goodyear. No. 967,184; Aug. 16; Sp. p. 2914; Gaz. vol. 157; p. 504.

Acetylene-generator, Non-automatic. F. B. Ray. No. 978,125; Dec. 6; Sp. p. 1514; Gaz. vol. 161; p. 244.

Acetylene-generators, Carbid-feeder for. W. J. K. McLeod. No. 979,682; Dec. 27; Sp. p. 4886; Gaz. vol. 161; p. 856.

Acetylene-machines, Pipe-frame for. L. B. Lake. No. 959,359; May 24; Sp. p. 6354; Gaz. vol. 154; p. 1062.

Acid, Amid of β-β-diethylpropionic. L. Taub. No. 977,053; Nov. 29; Sp. p. 6573; Gaz. vol. 160; p. 1121.

Acid, Amid of beta-beta-methylpropylpropionic. L. Taub. No. 961,385; June 14; Sp. p. 2355; Gaz. vol. 155; p. 416.

Acid and fire proof bodies, Producing. I. Schlossberg. No. 961,651; June 14; Sp. p. 2913; Gaz. vol. 155; p. 504.

Acid and making same, Indanthrene monosulfonic. R. Bohn. No. 948,204; Feb. 1; Sp. p. 869; Gaz. vol. 151; p. 142.

Acid and preparation of same, Ester of diglycollic. L. Ach. No. 948,084; Feb. 1; Sp. p. 635; Gaz. vol. 151; p. 103.

Acid, Apparatus for concentrating sulfuric. O. Proelss and W. S. Hall. No. 960,702; June 7; Sp. p. 944; Gaz. vol. 155; p. 157.

Acid, Apparatus for the production of acetic. M. J. and B. R. Lyster. No. 952,540; Mar. 22; Sp. p. 4220; Gaz. vol. 152; p. 774.

Acid baths, Apparatus for preparation of carbonic-. J. Michal. No. 955,182; Apr. 19; Sp. p. 3199; Gaz. vol. 153; p. 574.

Acid, Concentrating and purifying sludge-. L. Blacher and S. Sztencel. No. 956,276; Apr. 26; Sp. p. 5620; Gaz. vol. 153; p. 980.

Acid derivative of bodies of the terpene group, Oleic-. N. Sulzberger. No. 969,420; Sept. 6; Sp. p. 578; Gaz. vol. 158; p. 92.

Acid derivatives containing a phenyl group, Oleic-. N. Sulzberger. No. 970,662; Sept. 20; Sp. p. 3257; Gaz. vol. 158; p. 562.

Acid, Formic. M. Neumann. No. 975,151; Nov. 8; Sp. p. 2429; Gaz. vol. 160; p. 394.

Acid, Formic. H. Howard. No. 975,866; Nov. 15; Sp. p. 3945; Gaz. vol. 160; p. 664.

Acid from acid sludge, Obtaining sulfurous. G. Schildhaus and C. Condrea. No. 956,184; Apr. 26; Sp. p. 5429; Gaz. vol. 153; p. 950.

Acid from smelter-gases, Making sulfuric. J. P. Channing and F. J. Falding. No. 962,493; June 28; Sp. p. 4761; Gaz. vol. 155; p. 839.

Acid, Isobutyl ester of para-amino-benzoic. W. Grüttefien. No. 958,110; May 17; Sp. p. 3629; Gaz. vol. 154; p. 612.

Acid, Making concentrated sulfuric. O. Proelss. No. 963,174; July 5; Sp. p. 373; Gaz. vol. 156; p. 52.

Acid, Making formic. H. Howard. No. 960,927; June 7; Sp. p. 1368; Gaz. vol. 155; p. 230.

Alphabetical list of inventions—Continued.

Acid, Making formic. W. H. Walker. No. 970,145; Sept. 13; Sp. p. 2137; Gaz. vol. 158; p. 365.
Acid, Making hydrocyanic. O. Liebknecht. No. 967,943; Aug. 23; Sp. p. 4455; Gaz. vol. 157; p. 784.
Acid, Making hypochlorous. H. V. Walker. No. 972,954; Oct. 18; Sp. p. 3196; Gaz. vol. 159; p. 556.
Acid, Making nitric. F. Häusser. No. 961,350; June 14; Sp. p. 2292; Gaz. vol. 155; p. 405.
Acid, Making 1 - 8 - diaminonaphthalene - 4 - sulfonic. J. Mögenburg. No. 953,049; Mar. 29; Sp. p. 5294; Gaz. vol. 152; p. 975.
Acid, Making sulfuric. O. Proelss. No. 963,175; July 5; Sp. p. 375; Gaz. vol. 156; p. 53.
Acid, Making the n-propyl ester of p-aminobenzoic. R. Lüders. No. 950,936; Mar. 1; Sp. p. 995; Gaz. vol. 152; p. 159.
Acid, Manufacturing carbonic. E. A. Behrens. No. 960,788; June 7; Sp. p. 1112; Gaz. vol. 155; p. 186.
Acid, Manufacturing lactic. W. Klapproth. No. 947,078; Jan. 18; Sp. p. 4593; Gaz. vol. 150; p. 758.
Acid motor, Carbonic-. L. Horst. No. 961,859; June 21; Sp. p. 3375; Gaz. vol. 155; p. 598.
Acid, Obtaining acidylic derivatives of esters of dimethyl-amino-dimethyloxyacetic. E. Fourneau. No. 952,323; Mar. 15; Sp. p. 3752; Gaz. vol. 152; p. 672.
Acid oxalate and making same, Vanadium. P. Rehländer. No. 979,887; Dec. 27; Sp. p. 5352; Gaz. vol. 161; p. 925.
Acid, Producing hydrocyanic. O. Dieffenbach and W. Moldenhauer. No. 954,080; Apr. 5; Sp. p. 798; Gaz. vol. 153; p. 139.
Acids, Arsenoarylglycollic. P. Ehrlich and E. Schmitz. No. 963,126; July 5; Sp. p. 260; Gaz. vol. 156; p. 35.
Acids, Preparation of esters of oxyamino. E. Fourneau. No. 952,006; Mar. 15; Sp. p. 3143; Gaz. vol. 152; p. 566.
Acoustic - apparatus diaphragm. W. Burstyn. No. 954,715; Apr. 12; Sp. p. 2193; Gaz. vol. 153; p. 383.
Acoustic diaphragm. W. W. Young. No. 975,596; Nov. 15; Sp. p. 3377; Gaz. vol. 160; p. 574.
Actuating mechanism. J. B. Jarmin. No. 978,893; Dec. 20; Sp. p. 3157; Gaz. vol. 161; p. 561.
Adders, Carrying mechanism for. J. G. Kingsbury. No. 948,862; Feb. 8; Sp. p. 2283; Gaz. vol. 151; p. 388.
Adding and listing machine. W. J. Roche. No. 965,410; July 26; Sp. p. 5196; Gaz. vol. 156; p. 892.
Adding and listing machine. J. G. Vincent. No. 968,005; Aug. 23; Sp. p. 4605; Gaz. vol. 157; p. 805.
Adding and listing machine. W. Schooling. No. 974,996; Nov. 8; Sp. p. 2098; Gaz. vol. 160; p. 342.
Adding and recording machine. G. W. Dudley. No. 960,853; June 7; Sp. p. 1235; Gaz. vol. 155; p. 207.
Adding and recording machine. G. W. Dudley. No. 975,023; Nov. 8; Sp. p. 2146; Gaz. vol. 160; p. 351.
Adding and subtracting machine. C. F. Kettering. No. 959,059; May 24; Sp. p. 5730; Gaz. vol. 154; p. 963.
Adding and subtracting machine. W. Schooling. No. 977,333; Nov. 29; Sp. p. 7154; Gaz. vol. 160; p. 1218.
Adding apparatus. J. W. Alexander. No. 973,905; Oct. 25; Sp. p. 5236; Gaz. vol. 159; p. 907.
Adding-machine. F. C. Rinsche. No. 948,636; Feb. 8; Sp. p. 1817; Gaz. vol. 151; p. 312.
Adding-machine. J. G. Vincent. No. 949,338; Feb. 15; Sp. p. 3263; Gaz. vol. 151; p. 574.
Adding-machine. E. M. Plummer. No. 952,137; Mar. 15; Sp. p. 3390; Gaz. vol. 152; p. 610.
Adding-machine. C. A. Darr. No. 957,753; May 10; Sp. p. 2655; Gaz. vol. 154; p. 458.
Adding-machine. J. G. Vincent. No. 965,423; July 26; Sp. p. 5222; Gaz. vol. 156; p. 896.
Adding-machine. J. G. Vincent. No. 968,004; Aug. 23; Sp. p. 4590; Gaz. vol. 157; p. 805.
Adding-machine. J. M. Tourtel. No. 969,223; Sept. 6; Sp. p. 171; Gaz. vol. 158; p. 28.
Adding-machine. J. A. Toomey. No. 973,727; Oct. 25; Sp. p. 4858; Gaz. vol. 159; p. 845.
Adding-machine. C. B. Foster. No. 974,480; Nov. 1; Sp. p. 928; Gaz. vol. 160; p. 138.
Adding-machine. C. Wales. No. 974,937; Nov. 8; Sp. p. 1948; Gaz. vol. 160; p. 321.
Adding-machine. E. R. Barrett. No. 977,582; Dec. 6; Sp. p. 382; Gaz. vol. 161; p. 56.
Adding-machine. W. H. Callahan. No. 978,111; Dec. 6; Sp. p. 1476; Gaz. vol. 161; p. 238.
Adding-machine. W. J. Kilpatrick. No. 978,168; Dec. 13; Sp. p. 1631; Gaz. vol. 161; p. 288.
Adding-machine. W. W. Wilson. No. 978,527; Dec. 13; Sp. p. 2395; Gaz. vol. 161; p. 413.
Adding - machine, Motor - driven. F. A. Niemann. No. 976,390; Nov. 22; Sp. p. 5116; Gaz. vol. 160; p. 868.
Adding machine, Perpendicular and horizontal. C. E. W. Gardner. No. 960,634; June 7; Sp. p. 811; Gaz. vol. 155; p. 133.
Adding - machines, &c., Device for paying out paper to and winding up paper from. J. Elliott. No. 973,018; Oct. 18; Sp. p. 3325; Gaz. vol. 159; p. 578.
Adding-machines, Dogging mechanism for. J. A. Smith. No. 963,952; July 12; Sp. p. 2049; Gaz. vol. 156; p. 336.
Adding-machines, Guiding and guarding means for. J. A. Smith. No. 963,951; July 12; Sp. p. 2044; Gaz. vol. 156; p. 335.
Adding-machines, Power-drive for. O. C. Kreis, Jr. No. 960,343; June 7; Sp. p. 212; Gaz. vol. 155; p. 37.
Addressing and assorting newspapers, &c., Machine for. L. M. Nielsen. No. 964,449; July 12; Sp. p. 3053; Gaz. vol. 156; p. 502.
Addressing-machine. J. W. Butterfield. No. 947,589; Jan. 25; Sp. p. 5770; Gaz. vol. 150; p. 959.
Addressing-machine. E. H. Frey. No. 967,896; Aug. 23; Sp. p. 4354; Gaz. vol. 157; p. 768.
Addressing-machine. I. R. Hutchinson. No. 968,056; Aug. 23; Sp. p. 4705; Gaz. vol. 157; p. 822.
Addressing-machine. E. D. Belknap. No. 976,142; Nov. 22; Sp. p. 4512; Gaz. vol. 160; p. 782.
Addressing-machine. L. M. Nielsen. No. 978,627; Dec. 13; Sp. p. 2628; Gaz. vol. 161; p. 448.
Addressing-machines, Plate-feeding mechanism for. C. Owens and A. Lyle. No. 947,398; Jan. 25; Sp. p. 5326; Gaz. vol. 150; p. 894.
Adhesive compound or sizing. M. R. Isaacs. No. 959,348; May 24; Sp. p. 6335; Gaz. vol. 154; p. 1059.
Adhesive substance and preparing same. P. W. Blake. No. 969,449; Sept. 6; Sp. p. 625; Gaz. vol. 158; p. 100.
Adjustable and quick-acting clamp. I. A. Rommer. No. 972,253; Oct. 11; Sp. p. 1624; Gaz. vol. 159; p. 285.
Adjustable bracket. J. H. Lindberg. No. 945,280; Jan. 4; Sp. p. 570; Gaz. vol. 150; p. 93.
Adjustable bracket. T. Smith. No. 960,723; June 7; Sp. p. 982; Gaz. vol. 155; p. 163.
Adjustable bracket for furniture, &c. B. E. Beyer. No. 980,049; Dec. 27; Sp. p. 5687; Gaz. vol. 161; p. 979.
Adjustable chair. A. N. Hornung. No. 972,859; Oct. 18; Sp. p. 2938; Gaz. vol. 159; p. 521.
Adjustable chair. A. D. Luedders. No. 978,386; Dec. 13; Sp. p. 2102; Gaz. vol. 161; p. 366.
Adjustable chair, Child's. O. G. Nelson. No. 961,311; June 14; Sp. p. 2198; Gaz. vol. 155; p. 391.
Adjustable clamp. C. C. Butler. No. 962,620; June 28; Sp. p. 5041; Gaz. vol. 155; p. 881.
Adjustable coupling. F. Hanson. No. 948,221; Feb. 1; Sp. p. 903; Gaz. vol. 151; p. 148.
Adjustable reel. W. H. Earl. No. 965,091; July 19; Sp. p. 4531; Gaz. vol. 156; p. 755.
Adjustable reel, Automatic. C. H. Coon. No. 948,207; Feb. 1; Sp. p. 875; Gaz. vol. 151; p. 143.
Adjustable stand. H. G. Brown. No. 967,493; Aug. 16; Sp. p. 3550; Gaz. vol. 157; p. 610.
Adjustable wrench. C. P. Johnson. No. 957,214; May 10; Sp. p. 1545; Gaz. vol. 154; p. 273.
Adjustable wrench. W. S. Miehle. No. 975,707; Nov. 15; Sp. p. 3621; Gaz. vol. 160; p. 610.
Adjusting clamp or nut. J. L. Bernard. No. 968,113; Aug. 23; Sp. p. 4844; Gaz. vol. 157; p. 841.
Adjusting device. H. D. Chapman. No. 945,909; Jan. 11; Sp. p. 2015; Gaz. vol. 150; p. 335.
Advertisement-holder. R. F. Berkebile. No. 957,539; May 10; Sp. p. 2228; Gaz. vol. 154; p. 386.
Advertisement-holder. R. F. Berkebile. No. 965,859; Aug. 2; Sp. p. 24; Gaz. vol. 157; p. 7.
Advertising and display apparatus. A. F. Schmidt and W. T. Jefferson. No. 966,606; Aug. 9; Sp. p. 1659; Gaz. vol. 157; p. 283.
Advertising and lighting device, Cigar. H. Miller. No. 973,372; Oct. 18; Sp. p. 4106; Gaz. vol. 159; p. 701.
Advertising apparatus. J. J. Sleeper. No. 956,206; Apr. 26; Sp. p. 5465; Gaz. vol. 153; p. 956.
Advertising apparatus. A. S. Spiegel. No. 957,120; May 3; Sp. p. 1324; Gaz. vol. 154; p. 211.
Advertising apparatus. A. S. Spiegel. (Reissue.) No. 13,109; May 3; Sp. p. 1440; Gaz. vol. 154; p. 231.
Advertising apparatus, Moving. J. A. McDowell. No. 968,967; Aug. 30; Sp. p. 6661; Gaz. vol. 157; p. 1160.
Advertising apparatus, Prize-awarding. R. F. Hudson. No. 976,079; Nov. 15; Sp. p. 4342; Gaz. vol. 160; p. 738.
Advertising apparatus, Rotating. G. Lefèvre. No. 954,525; Apr. 12; Sp. p. 1772; Gaz. vol. 153; p. 318.
Advertising-card. C. F. Alsop. No. 969,831; Sept. 13; Sp. p. 1496; Gaz. vol. 158; p. 258.
Advertising-chair. A. Biehl. No. 958,793; May 24; Sp. p. 5178; Gaz. vol. 154; p. 871.
Advertising closet-seat cover. L. D. Castle. No. 952,231; Mar. 15; Sp. p. 3568; Gaz. vol. 152; p. 641.
Advertising device. E. A. Lyon. No. 948,285; Feb. 1; Sp. p. 1035; Gaz. vol. 151; p. 170.
Advertising device. L. P. Perew and J. A. Dischinger. No. 949,287; Feb. 15; Sp. p. 3155; Gaz. vol. 151; p. 556.
Advertising device. N. Stipkowitsch. No. 950,309; Feb. 22; Sp. p. 5361; Gaz. vol. 151; p. 941.
Advertising device. R. Wightman. No. 951,586; Mar. 8; Sp. p. 2279; Gaz. vol. 152; p. 395.
Advertising device. G. Fleak. No. 953,824; Apr. 5; Sp. p. 286; Gaz. vol. 153; p. 51.
Advertising device. J. T. H. Mitchell. No. 954,122; Apr. 5; Sp. p. 882; Gaz. vol. 153; p. 153.
Advertising device. H. H. Holloway. No. 954,288; Apr. 5; Sp. p. 1259; Gaz. vol. 153; p. 209.
Advertising device. A. Marks. No. 954,752; Apr. 12; Sp. p. 2296; Gaz. vol. 153; p. 397.
Advertising device. W. Molenaar. No. 954,755; Apr. 12; Sp. p. 2303; Gaz. vol. 153; p. 399.
Advertising device. J. A. Dossett. No. 954,942; Apr. 12; Sp. p. 2731; Gaz. vol. 153; p. 462.
Advertising device. J. A. McCoy. No. 956,142; Apr. 26; Sp. p. 5314; Gaz. vol. 153; p. 934.

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Advertising device. H. W. Cadwell. No. 956,937; May 3; Sp. p. 942; Gaz. vol. 154; p. 150.
Advertising device. G. W. Hanlon. No. 960,316; June 7; Sp. p. 152; Gaz. vol. 155; p. 29.
Advertising device. J. Adrian. No. 961,062; June 7; Sp. p. 1657; Gaz. vol. 155; p. 277.
Advertising device. W. E. Walters and H. S. Fitzgerrell. No. 962,069; June 21; Sp. p. 3816; Gaz. vol. 155; p. 669.
Advertising device. J. F. Abbott. No. 963,109; July 5; 224; Gaz. vol. 156; p. 29.
Advertising device. H. Tas. No. 963,336; July 5; Sp. p. 747; Gaz. vol. 156; p. 108.
Advertising device. G. M. Hallam. No. 964,967; July 19; Sp. p. 4282; Gaz. vol. 156; p. 714.
Advertising device. H. R. Fisher. No. 965,097; July 19; Sp. p. 4543; Gaz. vol. 156; p. 757.
Advertising device. J. Martin. No. 967,406; Aug. 16; Sp. p. 3372; Gaz. vol. 157; p. 581.
Advertising device. T. J. Burke. No. 970,301; Sept. 13; Sp. p. 2480; Gaz. vol. 158; p. 418.
Advertising device. J. P. Coughlin. No. 973,003; Oct. 18; Sp. p. 3296; Gaz. vol. 159; p. 573.
Advertising device. N. Joleen. No. 975,622; Nov. 15; Sp. p. 3433; Gaz. vol. 160; p. 583.
Advertising device. F. Leschinski. No. 976,271; Nov. 22; Sp. p. 4855; Gaz. vol. 160; p. 828.
Advertising device. P. Reeves. No. 976,495; Nov. 22; Sp. p. 5341; Gaz. vol. 160; p. 906.
Advertising device. M. S. Weilman. No. 976,618; Nov. 22; Sp. p. 5599; Gaz. vol. 160; p. 947.
Advertising device. T. H. Barron. No. 978,130; Dec. 13; Sp. p. 1554; Gaz. vol. 161; p. 276.
Advertising device. W. Heisterman. No. 978,157; Dec. 13; Sp. p. 1603; Gaz. vol. 161; p. 285.
Advertising device. P. C. Scott. No. 978,662; Dec. 13; Sp. p. 2706; Gaz. vol. 161; p. 460.
Advertising device. H. D. Stewart. No. 978,956; Dec. 20; Sp. p. 3321; Gaz. vol. 161; p. 585.
Advertising device. E. A. Lyon. No. 979,399; Dec. 20; Sp. p. 4271; Gaz. vol. 161; p. 734.
Advertising device, Automatic. B. C. Ferguson. No. 946,500; Jan. 11; Sp. p. 3356; Gaz. vol. 150; p. 539.
Advertising device, Dental. M. R. Slough. No. 961,262; June 14; Sp. p. 2068; Gaz. vol. 155; p. 372.
Advertising device, Motion. A. H. Douglas. No. 950,166; Feb. 22; Sp. p. 5073; Gaz. vol. 151; p. 890.
Advertising device, Motion. A. H. Douglas. No. 951,599; Mar. 8; Sp. p. 2300; Gaz. vol. 152; p. 399.
Advertising device, Moving. S. J. Scott. No. 964,320; July 12; Sp. p. 2805; Gaz. vol. 156; p. 462.
Advertising device, Moving. S. J. Scott. No. 972,258; Oct. 11; Sp. p. 1632; Gaz. vol. 159; p. 287.
Advertising device, Street-car. W. F. Sweet. No. 974,307; Nov. 1; Sp. p. 515; Gaz. vol. 160; p. 76.
Advertising-machine. M. Rothschild. No. 956,425; Apr. 26; Sp. p. 5925; Gaz. vol. 153; p. 1031.
Advertising or amusement device. W. Stott. No. 971,091; Sept. 27; Sp. p. 4161; Gaz. vol. 158; p. 734.
Advertising-package, Dummy. G. B. Compton. No. 979,261; Dec. 20; Sp. p. 4021; Gaz. vol. 161; p. 691.
Aerating apparatus, Liquid-. J. B. Young. No. 967,286; Aug. 16; Sp. p. 3107; Gaz. vol. 157; p. 538.
Aerating apparatus, Water-. G. Erlwein and E. Marquardt. No. 950,999; Mar. 1; Sp. p. 1109; Gaz. vol. 152; p. 179.
Aerating liquors. A. Tosco. No. 948,831; Feb. 8; Sp. p. 2235; Gaz. vol. 151; p. 378.
Aerial cableways, Wheel for cars for. H. S. Robinson. No. 947,085; Jan. 18; Sp. p. 4608; Gaz. vol. 150; p. 761.
Aerial machine. W. E. Goble. No. 945,514; Jan. 4; Sp. p. 1099; Gaz. vol. 150; p. 169.
Aerial machine. J. Beard. No. 950,427; Feb. 22; Sp. p. 5582; Gaz. vol. 151; p. 978.
Aerial machine. L. E. Clawson. No. 971,358; Sept. 27; Sp. p. 4705; Gaz. vol. 158; p. 822.
Aerial machines, Apparatus for operating planes or wings and rudders of. J. L. Garsed. No. 965,289; July 26; Sp. p. 4931; Gaz. vol. 156; p. 851.
Aerial machines, nautical ships, vehicles, and other purposes, Apparatus for. J. W. Cloud. No. 968,127; Aug. 23; Sp. p. 4872; Gaz. vol. 157; p. 845.
Aerial navigation. R. P. Marable. No. 970,842; Sept. 20; Sp. p. 3659; Gaz. vol. 158; p. 625.
Aerial navigation, Device for. H. C. Schanze, Sr. No. 956,648; May 3; Sp. p. 307; Gaz. vol. 154; p. 50.
Aerial navigator. R. C. Gore. No. 979,286; Dec. 20; Sp. p. 4068; Gaz. vol. 161; p. 700.
Aerial projecting apparatus. I. Hourwich. No. 975,953; Nov. 15; Sp. p. 4114; Gaz. vol. 160; p. 695.
Aerial ship. F. W. Schroeder. No. 959,266; May 24; Sp. p. 6168; Gaz. vol. 154; p. 1031.
Aerial transportation. E. Lugo-Viña. No. 952,539; Mar. 22; Sp. p. 4217; Gaz. vol. 152; p. 773.
Aerial transportation. E. Lugo-Viña. No. 964,989; July 19; Sp. p. 4326; Gaz. vol. 156; p. 721.
Aerial trucks, Steering mechanism for. E. D. Sands. No. 969,301; Sept. 6; Sp. p. 314; Gaz. vol. 158; p. 51.
Aeriform environments, Producing pure or mixed. H. J. R. Hemming. No. 970,623; Sept. 20; Sp. p. 3177; Gaz. vol. 158; p. 548.
Aeronautic safety appliance. F. A. Schlueter. No. 967,571; Aug. 16; Sp. p. 3702; Gaz. vol. 157; p. 637.
Aerophone. L. De Forest. No. 973,644; Oct. 25; Sp. p. 4694; Gaz. vol. 159; p. 815.
Aeroplane. H. F. Weidel. No. 951,585; Mar. 8; Sp. p. 2276; Gaz. vol. 152; p. 395.
Aeroplane. L. R. Culver. No. 955,389; Apr. 19; Sp. p. 3666; Gaz. vol. 153; p. 644.
Aeroplane. G. Geraldson. No. 963,543; July 5; Sp. p. 1164; Gaz. vol. 156; p. 178.
Aeroplane. S. H. Gilson. No. 864,771; July 19; Sp. p. 3892; Gaz. vol. 156; p. 646.
Aeroplane. L. R. Adams. No. 965,792; July 26; Sp. p. 6043; Gaz. vol. 156; p. 1025.
Aeroplane. R. De Bersaques. No. 967,711; Aug. 16; Sp. p. 3982; Gaz. vol. 157; p. 682.
Aeroplane. A. A. Heil. No. 969,865; Sept. 13; Sp. p. 1563; Gaz. vol. 158; p. 269.
Aeroplane. W. H. Fauber. No. 971,030; Sept. 27; Sp. p. 4023; Gaz. vol. 158; p. 714.
Aeroplane. H. Hartmann and W. Klehe. No. 971,535; Oct. 4; Sp. p. 50; Gaz. vol. 159; p. 11.
Aeroplane. J. M. Davis. No. 973,632; Oct. 25; Sp. p. 4664; Gaz. vol. 159; p. 811.
Aeroplane. J. W. Dunne. No. 975,403; Nov. 15; Sp. p. 2976; Gaz. vol. 160; p. 506.
Aeroplane. F. Lebreil and R. Desgeorge. No. 976,582; Nov. 22; Sp. p. 5533; Gaz. vol. 160; p. 935.
Aeroplane. L. A. Hayot. No. 976,876; Nov. 29; Sp. p. 6147; Gaz. vol. 160; p. 1059.
Aeroplane. A. F. W. Macmanus. No. 977,528; Dec. 6; Sp. p. 258; Gaz. vol. 161; p. 37.
Aeroplane attachment. F. W. Wuerth. No. 961,925; June 21; Sp. p. 3506; Gaz. vol. 155; p. 619.
Aeroplane, Cable-propelled. G. C. Luther. No. 969,643; Sept. 6; Sp. p. 1046; Gaz. vol. 158; p. 168.
Aeroplane controlling means. P. Daniel. No. 980,073; Dec. 27; Sp. p. 5738; Gaz. vol. 161; p. 987.
Aeroplane, Inflated. A. E. Maiden. No. 975,263; Nov. 8; Sp. p. 2678; Gaz. vol. 160; p. 433.
Aeroplane launcher and lander. G. Geraldson. No. 968,339; Aug. 23; Sp. p. 5339; Gaz. vol. 157; p. 920.
Aeroplane, Monoplane. R. W. Stewart. No. 951,154; Mar. 8; Sp. p. 1400; Gaz. vol. 152; p. 254.
Aeroplanes, Landing and starting apparatus for. G. O. Draper. No. 965,881; Aug. 2; Sp. p. 66; Gaz. vol. 157; p. 13.
Aeroplanes, Stabilizing means for. H. M. Chase and M. F. H. Gouverneur. No. 963,516; July 5; Sp. p. 1112; Gaz. vol. 156; p. 169.
Aging and processing apparatus, Liquor. J. Seitz. No. 967,575; Aug. 16; Sp. p. 3711; Gaz. vol. 157; p. 639.
Aging apparatus, Liquor-. J. Seitz. No. 967,574; Aug. 16; Sp. p. 3708; Gaz. vol. 157; p. 638.
Agitator. O. Peppard. No. 953,760; Apr. 5; Sp. p. 157; Gaz. vol. 153; p. 29.
Agitator. E. A. Mitchell. No. 955,978; Apr. 26; Sp. p. 4963; Gaz. vol. 153; p. 877.
Agitator. L. T. Sicka. No. 978,667; Dec. 13; Sp. p. 2715; Gaz. vol. 161; p. 462.
Agitator and disintegrator. T. Edwards. No. 967,743; Aug. 16; Sp. p. 4058; Gaz. vol. 157; p. 695.
Agitator or mixing apparatus. R. Smith. No. 946,281; Jan. 11; Sp. p. 2793; Gaz. vol. 150; p. 465.
Agricultural implement. W. Hoover and E. C. Gates. No. 945,460; Jan. 4; Sp. p. 966; Gaz. vol. 150; p. 152.
Agricultural implement. J. Herman. No. 957,675; May 10; Sp. p. 2501; Gaz. vol. 154; p. 432.
Agricultural implement. J. N. Parker. No. 965,736; July 26; Sp. p. 5915; Gaz. vol. 156; p. 1006.
Agricultural implement. A. C. Lindgren. No. 966,568; Aug. 9; Sp. p. 1585; Gaz. vol. 157; p. 270.
Agricultural implement. H. H. Boenker. No. 970,783; Sept. 20; Sp. p. 3532; Gaz. vol. 158; p. 604.
Agricultural implement. W. W. Oldham. No. 974,512; Nov. 1; Sp. p. 1011; Gaz. vol. 160; p. 150.
Agricultural implement. J. P. Baldwin. No. 975,109; Nov. 8; Sp. p. 2334; Gaz. vol. 160; p. 381.
Agricultural implement, Combination. N. Raez. No. 974,916; Nov. 8; Sp. p. 1898; Gaz. vol. 160; p. 313.
Agricultural implement, Electrically-operated. C. Taurman. No. 971,574; Oct. 4; Sp. p. 136; Gaz. vol. 159; p. 25.
Agricultural-implement seat. C. Christensen. No. 957,411; May 10; Sp. p. 1970; Gaz. vol. 154; p. 341.
Agricultural implements, Tool-controlling mechanism for. W. H. Rice. No. 945,192; Jan. 4; Sp. p. 378; Gaz. vol. 150; p. 64.
Agricultural machines, Device for driving motor. A. Jeszenszky. No. 947,444; Jan. 25; Sp. p. 5432; Gaz. vol. 150; p. 910.
Aigret and like article, Artificial. M. Veit. No. 948,194; Feb. 1; Sp. p. 844; Gaz. vol. 151; p. 139.
Aim-director. J. C. Barnes. No. 957,299; May 10; Sp. p. 1741; Gaz. vol. 154; p. 304.
Aiming device, Search-light. K. Weber. No. 976,416; Nov. 22; Sp. p. 5171; Gaz. vol. 160; p. 878.
Air and automatic emergency brake apparatus, Straight-. W. V. Turner. No. 965,615; July 26; Sp. p. 5677; Gaz. vol. 156; p. 965.

Alphabetical list of inventions—Continued.

Air and gas engine. B. M. Aslakson. No. 949,139; Feb. 15; Sp. p. 2864; Gaz. vol. 151; p. 507.
Air and gas mixing device. C. S. and J. W. Moore. No. 961,787; June 21; Sp. p. 3194; Gaz. vol. 155; p. 573.
Air and gas mixing device. S. H. Hale. No. 970,919; Sept. 20; Sp. p. 3804; Gaz. vol. 158; p. 649.
Air and producing ozone, Means for filtering. S. C. Shaffner. No. 977,335; Nov. 29; Sp. p. 7164; Gaz. vol. 160; p. 1219.
Air and producing ozone, Means for filtering. S. C. Shaffner and S. T. Hutton. No. 977,336; Nov. 29; Sp. p. 7169; Gaz. vol. 160; p. 1219.
Air and steam connection, Automatic. H. L. Miner. No. 951,196; Mar. 8; Sp. p. 1474; Gaz. vol. 152; p. 267.
Air and steam coupling, Automatic. J. V. Robinson. (Reissue.) No. 13,138; July 26; Sp. p. 6163; Gaz. vol. 156; p. 1045.
Air and the like, Plant for the handling and utilization of liquid. H. Dumars. No. 954,268; Apr. 5; Sp. p. 1211; Gaz. vol. 153; p. 203.
Air, Apparatus for producing carbureted. R. Busch. No. 976,781; Nov. 22; Sp. p. 5941; Gaz. vol. 160; p. 1002.
Air, Apparatus for the production of carbureted. M. F. Mieville. No. 947,717; Jan. 25; Sp. p. 6012; Gaz. vol. 150; p. 1001.
Air-blast distributer. W. T. Hendryx. No. 952,522; Mar. 22; Sp. p. 4168; Gaz. vol. 152; p. 767.
Air-brake. W. B. Mann. No. 950,539; Mar. 1; Sp. p. 163; Gaz. vol. 152; p. 27.
Air-brake. W. S. Bilbrey. No. 952,299; Mar. 15; Sp. p. 3711; Gaz. vol. 152; p. 664.
Air-brake. C. W. Frye. No. 955,788; Apr. 19; Sp. p. 4520; Gaz. vol. 153; p. 781.
Air-brake. T. J. Henretta. No. 959,010; May 24; Sp. p. 5633; Gaz. vol. 154; p. 947.
Air-brake. J. F. McElroy. No. 962,517; June 28; Sp. p. 4808; Gaz. vol. 155; p. 847.
Air-brake. J. E. Henris. No. 973,194; Oct. 18; Sp. p. 3741; Gaz. vol. 159; p. 639.
Air-brake. A. A. St. Clair. No. 976,224; Nov. 22; Sp. p. 4712; Gaz. vol. 160; p. 810.
Air-brake and clutch mechanism. W. B. West. No. 966,282; Aug. 2; Sp. p. 933; Gaz. vol. 157; p. 148.
Air-brake angle-cock connection and support. M. A. Garrett. No. 960,890; June 7; Sp. p. 1309; Gaz. vol. 155; p. 219.
Air-brake apparatus. N. H. Davis. No. 945,758; Jan. 11; Sp. p. 1667; Gaz. vol. 150; p. 280.
Air-brake apparatus. H. F. Bickel. No. 962,546; June 28; Sp. p. 4879; Gaz. vol. 155; p. 856.
Air-brake apparatus. J. W. Bingley. No. 962,547; June 28; Sp. p. 4884; Gaz. vol. 155; p. 857.
Air brake apparatus, Combined automatic and straight-. W. V. Turner. No. 963,487; July 5; Sp. p. 1046; Gaz. vol. 156; p. 159.
Air-brake apparatus, Cut-out and release for. S. P. Cota. No. 969,344; Sept. 6; Sp. p. 407; Gaz. vol. 158; p. 66.
Air-brake attachment for automatic systems, Straight-. W. R. Chandler. No. 962,696; June 28; Sp. p. 5202; Gaz. vol. 155; p. 908.
Air-brake, Automatic. W. V. Turner. No. 945,063; Jan. 4; Sp. p. 115; Gaz. vol. 150; p. 20.
Air-brake, Automatic railway. W. K. Omick. No. 963,465; July 5; Sp. p. 1008; Gaz. vol. 156; p. 152.
Air brake, Combined automatic and straight-. W. V. Turner. No. 950,736; Mar. 1; Sp. p. 595; Gaz. vol. 152; p. 94.
Air brake, Combined automatic and straight-. W. V. Turner. No. 956,234; Apr. 26; Sp. p. 5537; Gaz. vol. 153; p. 966.
Air brake, Combined automatic and straight-. W. V. Turner. No. 971,806; Oct. 4; Sp. p. 613; Gaz. vol. 159; p. 107.
Air brake, Combined automatic and straight-. W. V. Turner. No. 971,807; Oct. 4; Sp. p. 617; Gaz. vol. 159; p. 108.
Air brake, Combined automatic emergency and straight-. W. V. Turner. No. 965,613; July 26; Sp. p. 5671; Gaz. vol. 156; p. 964.
Air-brake-controlling means for locomotive-engines. S. N. Stevens. No. 955,611; Apr. 19; Sp. p. 4140; Gaz. vol. 153; p. 720.
Air-brake coupling. M. A. Brown. No. 953,458; Mar. 29; Sp. p. 6198; Gaz. vol. 152; p. 1111.
Air-brake coupling. H. T. Inghram. No. 978,755; Dec. 13; Sp. p. 2894; Gaz. vol. 161; p. 490.
Air-brake coupling, Automatic. F. H. Roe. No. 962,980; June 28; Sp. p. 5744; Gaz. vol. 155; p. 1006.
Air-brake-cylinder attachment. C. P. Cass. No. 947,541; Jan. 25; Sp. p. 5672; Gaz. vol. 150; p. 942.
Air brake, Duplex automatic and straight-. W. V. Turner. No. 965,614; July 26; Sp. p. 5674; Gaz. vol. 156; p. 965.
Air brake, Duplex-pressure straight-. C. P. Cass. No. 977,164; Nov. 29; Sp. p. 6834; Gaz. vol. 160; p. 1160.
Air-brake governor. U. S. Smith. No. 950,642; Mar. 1; Sp. p. 384; Gaz. vol. 152; p. 62.
Air-brake hose. C. T. Driggs. No. 964,004; July 12; Sp. p. 2170; Gaz. vol. 156; p. 354.
Air-brake indicator. O. R. Snyder. No. 947,213; Jan. 18; Sp. p. 4861; Gaz. vol. 150; p. 802.
Air-brake means, Fluid-pressure. G. T. Rowton. No. 947,086; Jan. 18; Sp. p. 4610; Gaz. vol. 150; p. 761.
Air-brake mechanism. H. T. Ryder and J. P. Johnson. No. 972,027; Oct. 4; Sp. p. 1137; Gaz. vol. 159; p. 191.
Air-brake-mechanism control device. C. Lang. No. 964,168; July 12; Sp. p. 2494; Gaz. vol. 156; p. 410.
Air-brake or train-pipe valve. A. Oleson. No. 956,153; Apr. 26; Sp. p. 5343; Gaz. vol. 153; p. 938.
Air-brake pipe-coupling. L. A. Peterson. No. 957,087; May 3; Sp. p. 1264; Gaz. vol. 154; p. 201.
Air-brake pressure-regulator. D. H. Downey. No. 972,347; Oct. 11; Sp. p. 1801; Gaz. vol. 159; p. 316.
Air-brake signaling device. F. H. Dukesmith. No. 959,122; May 24; Sp. p. 5871; Gaz. vol. 154; p. 984.
Air-brake system. B. Farmer. No. 952,794; Mar. 22; Sp. p. 4783; Gaz. vol. 152; p. 861.
Air-brake system. A. J. Wisner. No. 955,625; Apr. 19; Sp. p. 4166; Gaz. vol. 153; p. 725.
Air-brake system. C. W. Hurl. No. 966,211; Aug. 2; Sp. p. 798; Gaz. vol. 157; p. 126.
Air-brake system. A Doan. No. 969,046; Aug. 30; Sp. p. 6818; Gaz. vol. 157; p. 1188.
Air-brake system. O. Johnson. No. 969,877; Sept. 13; Sp. p. 1591; Gaz. vol. 158; p. 273.
Air-brake system. A. Doan. No. 973,179; Oct. 18; Sp. p. 3697; Gaz. vol. 159; p. 633.
Air-brake system. J. Dillander. No. 977,856; Dec. 6; Sp. p. 947; Gaz. vol. 161; p. 150.
Air-brake system, Direct. A. Doan. No. 951,987; Mar. 15; Sp. p. 3106; Gaz. vol. 152; p. 560.
Air-brake system, Duplex. W. V. Turner. No. 965,612; July 26; Sp. p. 5668; Gaz. vol. 156; p. 964.
Air-brake system, Electropneumatic. G. Macloskie. No. 957,227; May 10; Sp. p. 1581; Gaz. vol. 154; p. 279.
Air-brake system, Electropneumatic. G. Macloskie. No. 960,361; June 7; Sp. p. 257; Gaz. vol. 155; p. 43.
Air-brake systems, Angle-cock support for. M. A. Garrett. No. 960,889; June 7; Sp. p. 1307; Gaz. vol. 155; p. 219.
Air-brake systems, Cock-controlling device for. V. J. Koehler. No. 952,121; Mar. 15; Sp. p. 3355; Gaz. vol. 152; p. 604.
Air-brake systems, Coupling for. V. P. Taylor. No. 968,094; Aug. 23; Sp. p. 4803; Gaz. vol. 157; p. 835.
Air-brake-testing apparatus. F. H. Dukesmith. No. 959,123; May 24; Sp. p. 5872; Gaz. vol. 154; p. 984.
Air-brake-testing apparatus. F. H. Dukesmith. No. 959,124; May 24; Sp. p. 5876; Gaz. vol. 154; p. 984.
Air-brake-testing system. F. H. Dukesmith. No. 959,209; May 24; Sp. p. 6056; Gaz. vol. 154; p. 1012.
Air-brakes and economizing air, Means for releasing. W. S. De Camp. No. 950,165; Feb. 22; Sp. p. 5070; Gaz. vol. 151; p. 890.
Air-brakes, Pressure-retaining device for. J. C. Huxhold. No. 951,566; Mar. 8; Sp. p. 2243; Gaz. vol. 152; p. 389.
Air-braking apparatus for railways. W. H. Sheasby and S. G. Neal. No. 961,320; June 14; Sp. p. 2221; Gaz. vol. 155; p. 394.
Air compressing and pumping apparatus, Compound liquid-piston. J. K. Sweeny. No. 960,729; June 7; Sp. p. 992; Gaz. vol. 155; p. 165.
Air-compressing apparatus. L. B. De Camp. No. 971,175; Sept. 27; Sp. p. 4345; Gaz. vol. 158; p. 762.
Air-compressing apparatus. W. U. Griffiths. No. 974,261; Nov. 1; Sp. p. 408; Gaz. vol. 160; p. 60.
Air-compressing apparatus. P. Russell and A. W. Schramm. No. 978,062; Dec. 6; Sp. p. 1377; Gaz. vol. 161; p. 221.
Air-compressor. C. G. Simonds. No. 945,988; Jan 11; Sp. p. 2187; Gaz. vol. 150; p. 363.
Air-compressor. E. F. Gallaudet. No. 952,798; Mar. 22; Sp. p. 4793; Gaz. vol. 152; p. 862.
Air-compressor. A. T. Newell. No. 957,084; May 3; Sp. p. 1258; Gaz. vol. 154; p. 199.
Air-compressor. D. R. Allard. No. 960,478; June 7; Sp. p. 473; Gaz. vol. 155; p. 80.
Air-compressor. W. Wright. No. 963,676; July 5; Sp. p. p. 1418; Gaz. vol. 156; p. 222.
Air-compressor. F. H. Merrill. No. 963,788; July 12; Sp. p. 1687; Gaz. vol. 156; p. 282.
Air-compressor. G. C. Vollmer. No. 966,494; Aug. 9; Sp. p. 1388; Gaz. vol. 157; p. 244.
Air-compressor. F. Boercker. No. 968,234; Aug. 23; Sp. p. 5121; Gaz. vol. 157; p. 882.
Air-compressor. J. W. Eberman. No. 969,139; Aug. 30; Sp. p. 7018; Gaz. vol. 157; p. 1221.
Air-compressor. J. W. Gardner. No. 970,487; Sept. 20; Sp. p. 2863; Gaz. vol. 158; p. 501.
Air-compressor. A. O. Carpenter. No. 972,161; Oct. 11; Sp. p. 1416; Gaz. vol. 159; p. 254.
Air-compressor. W. L. Crane. No. 972,163; Oct. 11; Sp. p. 1420; Gaz. vol. 159; p. 255.
Air-compressor. J. R. Burrows. No. 972,813; Oct. 18; Sp. p. 2824; Gaz. vol. 159; p. 505.
Air-compressor. G. P. O. Alvergnat. No. 973,739; Oct. 25; Sp. p. 4885; Gaz. vol. 159; p. 849.
Air-compressor. J. J. Kiely. No. 975,136; Nov. 8; Sp. p. 2400; Gaz. vol. 160; p. 389.
Air-compressor. J. and A. H. Hanna. No. 975,233; Nov. 8; Sp. p. 2616; Gaz. vol. 160; p. 422.

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Air-compressor adapted to work as a vacuum-pump. E. Gaucher. No. 967,013; Aug. 9; Sp. p. 2547; Gaz. vol. 157; p. 418.
Air-compressor, Automatic. J. Rogers. No. 955,437; Apr. 19; Sp. p. 3755; Gaz. vol. 153; p. 660.
Air-compressor, Electric. A. F. Batchelder. No. 947,882; Feb. 1; Sp. p. 227; Gaz. vol. 151; p. 37.
Air-compressor, Frictional. C. A. Jaqua. No. 975,957; Nov. 15; Sp. p. 4122; Gaz. vol. 160; p. 696.
Air-compressor governor. G. O'Bryan. No. 965,120; July 19; Sp. p. 4578; Gaz. vol. 156; p. 764.
Air-compressor, Hydraulic. J. W. Neal. No. 946,683; Jan. 18; Sp. p. 3738; Gaz. vol. 150; p. 625.
Air-compressor, Hydraulic. P. Bernstein. No. 955,124; Apr. 19; Sp. p. 3082; Gaz. vol. 153; p. 553.
Air-compressor, Rotary. F. Peck. No. 949,714; Feb. 15; Sp. p. 4013; Gaz. vol. 151; p. 698.
Air-compressors, Combined governor and regulator for. J. L. Osborne. No. 963,803; July 12; Sp. p. 1728; Gaz. vol. 156; p. 288.
Air-conditioning apparatus. S. W. Cramer and W. B. Hodge. No. 960,830; June 7; Sp. p. 1198; Gaz. vol. 155; p. 199.
Air-cooled engine. W. J. Miller. No. 962,233.; June 21; Sp. p. 4173; Gaz. vol. 155; p. 725.
Air-cooling apparatus. R. G. Wilson. No. 962,284; June 21; Sp. p. 4295; Gaz. vol. 155; p. 742.
Air-cooling apparatus. G. Dramis. No. 978,008; Dec. 6; Sp. p. 1261; Gaz. vol. 161; p. 202.
Air-coupling, Automatic. A. H. Harrison. No. 967,516; Aug. 16; Sp. p. 3598; Gaz. vol. 157; p. 618.
Air-current governor. S. P. Smith. No. 949,009; Feb. 15; Sp. p. 2593; Gaz. vol. 151; p. 465.
Air-current governor, Automatic. S. P. Smith. No. 947,166; Jan. 18; Sp. p. 4760; Gaz. vol. 150; p. 785.
Air-cylinder. W. L. Abate. No. 949,872; Feb. 22; Sp. p. 4400; Gaz. vol. 151; p. 788.
Air, Device for equally dividing and distributing a current of. H. F. Rand. No. 962,720; June 28; Sp. p. 5252; Gaz. vol. 155; p. 916.
Air, Device for supplying compressed. L. Galli. No. 952,799; Mar. 22; Sp. p. 4798; Gaz. vol. 152; p. 863.
Air, Drying. H. A. Bassert. No. 958,471; May 17; Sp. p. 4511; Gaz. vol. 154; p. 738.
Air-drying apparatus. I. H. Reynolds and F. E. Norton. No. 946,069; Jan. 11; Sp. p. 2339; Gaz. vol. 150; p. 389.
Air-drying means. L. Block. No. 961,710; June 14; Sp. p. 3025; Gaz. vol. 155; p. 524.
Air-duct. D. I. Cooke. No. 963,518; July 5; Sp. p. 1117; Gaz. vol. 156; p. 170.
Air emergency-brake, Straight-. W. V. Turner. No. 971,808; Oct. 4; Sp. p. 620; Gaz. vol. 159; p. 108.
Air engine, Compound compressed-. C. B. Hodges. No. 979,165; Dec. 20; Sp. p. 3808; Gaz. vol. 161; p. 659.
Air-exhaust mechanism, Hydraulic. J. W. Thomas. No. 972,039; Oct. 4; Sp. p. 1161; Gaz. vol. 159; p. 195.
Air, Extracting moisture from. J. Gayley. No. 970,453; Sept. 13; Sp. p. 2778; Gaz. vol. 158; p. 467.
Air-filter. W. Blass. No. 964,377; July 12; Sp. p. 2905; Gaz. vol. 156; p. 480.
Air-filter. C. Guntrum. No. 972,183; Oct. 11; Sp. p. 1467; Gaz. vol. 159; p. 261.
Air-filter. C. Guntrum. No. 972,184; Oct. 11; Sp. p. 1468; Gaz. vol. 159; p. 262.
Air for use in metallurgical processes, Treating. J. B. Miles. No. 971,297; Sept. 27; Sp. p. 4578; Gaz. vol. 158; p. 801.
Air, gas, or other gaseous fluids, Compressing. E. F. Osborne. No. 960,233; May 31; Sp. p. 8231; Gaz. vol. 154; p. 1385.
Air-governor and expression device, Combined. W. F. Bayer. No. 961,335; June 14; Sp. p. 2263; Gaz. vol. 155; p. 399.
Air-heater. C. G. Bosch. No. 957,862; May 17; Sp. p. 2888; Gaz. vol. 154; p. 524.
Air-heater. W. N. Le Page. No. 959,362; May 24; Sp. p. 6358; Gaz. vol. 154; p. 1063.
Air-heating. G. Westinghouse and A. M. Gow. No. 976,967; Nov. 29; Sp. p. 6397; Gaz. vol. 160; p. 1092.
Air-heating apparatus. G. Westinghouse and A. M. Gow. No. 976,967; Nov. 29; Sp. p. 6397; Gaz. vol. 160; p. 1092.
Air in closed rooms, Device for damping the. K. Ulrich. No. 971,227; Sept. 27; Sp. p. 4449; Gaz. vol. 158; p. 779.
Air-inlet trap, Fresh-. G. R. Evans. No. 961,343; June 14; Sp. p. 2279; Gaz. vol. 155; p. 402.
Air into oxygen and nitrogen, Mechanism for liquefying and separating. J. F. Place. No. 978,935; Dec. 20; Sp. p. 3248; Gaz. vol. 161; p. 576.
Air level inlet for house or other drainage, Fresh-. R. Knox. No. 950,332; Feb. 22; Sp. p. 5407; Gaz. vol. 151; p. 948.
Air-lift, Automatic chemical. A. Long. No. 979,867; Dec. 27; Sp. p. 5315; Gaz. vol. 161; p. 910.
Air, Means for increasing the energy of stored compressed. W. H. Sodeau. No. 964,574; July 19; Sp. p. 3383; Gaz. vol. 156; p. 578.
Air-moistening device. W. M. Bowen. No. 967,867; Aug. 16; Sp. p. 4291; Gaz. vol. 157; p. 734.
Air-motor or windmill. O. E. Sill. No. 976,003; Nov. 15; Sp. p. 4203; Gaz. vol. 160; p. 712.
Air-pressure indicator. H. W. and G. H. Brown. No. 945,216; Jan. 4; Sp. p. 431; Gaz. vol. 150; p. 72.

Air purifying and distributing apparatus. W. B. Patrick. No. 956,159; Apr. 26; Sp. p. 5355; Gaz. vol. 153; p. 940.
Air-purifying apparatus. G. Clements and J. M. Hostler. No. 961,208; June 14; Sp. p. 1964; Gaz. vol. 155; p. 354.
Air-purifying apparatus. J. H. Kinealy. No. 976,081; Nov. 15; Sp. p. 4348; Gaz. vol. 160; p. 738.
Air-regulator. W. A. Shorb and G. R. Rodgers. No. 974,997; Nov. 8; Sp. p. 2104; Gaz. vol. 160; p. 342.
Air, Separation of oxygen and nitrogen from liquid. G. Claude. No. 950,436; Feb. 22; Sp. p. 5596; Gaz. vol. 151; p. 981.
Air-spraying tank. H. Mikorey. No. 964,114; July 12; Sp. p. 2398; Gaz. vol. 156; p. 393.
Air-spring. A. Sharp. No. 973,223; Oct. 18; Sp. p. 3793; Gaz. vol. 159; p. 649.
Air, steam, or hot-water coupling. G. N. Knapp. No. 969,637; Sept. 6; Sp. p. 1037; Gaz. vol. 158; p. 166.
Air-switch. C. F. Preslar. No. 945,416; Jan. 4; Sp. p. 893; Gaz. vol. 150; p. 139.
Air-treating machine. C. E. W. Dow. No. 968,332; Aug. 23; Sp. p. 5330; Gaz. vol. 157; p. 918.
Air-washing apparatus. J. H. Kinealy. No. 969,287; Sept. 6; Sp. p. 288; Gaz. vol. 158; p. 47.
Airship. A. Crane. No. 947,802; Feb. 1; Sp. p. 47; Gaz. vol. 151; p. 10.
Airship. J. A. Turnidge. No. 949,810; Feb. 22; Sp. p. 4247; Gaz. vol. 151; p. 766.
Airship. G. H. Brekke. No. 955,049; Apr. 12; Sp. p. 2942; Gaz. vol. 153; p. 498.
Airship. R. Gendts. No. 957,205; May 10; Sp. p. 1528; Gaz. vol. 154; p. 270.
Airship. L. Arnheiter. No. 958,460; May 17; Sp. p. 4494; Gaz. vol. 154; p. 735.
Airship. R. E. Green. No. 960,539; June 7; Sp. p. 620; Gaz. vol. 155; p. 100.
Airship. G. D. S. Reece. No. 962,386; June 21; Sp. p. 4494; Gaz. vol. 155; p. 776.
Airship. T. Kornbrodt. No. 962,964; June 28; Sp. p. 5705; Gaz. vol. 155; p. 1000.
Airship. A. R. Rieger. No. 962,977; June 28; Sp. p. 5736; Gaz. vol. 155; p. 1004.
Airship. L. H. Barringer. No. 965,682; July 26; Sp. p. 5814; Gaz. vol. 156; p. 988.
Airship. W. E. Morrison. No. 970,532; Sept. 20; Sp. p. 2962; Gaz. vol. 158; p. 516.
Airship. D. Hillis. No. 971,379; Sept. 27; Sp. p. 4741; Gaz. vol. 158; p. 828.
Airship. H. Thaden. No. 976,709; Nov. 22; Sp. p. 5767; Gaz. vol. 160; p. 977.
Airship. T. S. Harris. No. 976,873; Nov. 29; Sp. p. 6140; Gaz. vol. 160; p. 1058.
Airship and aeroplane. E. J. Lester and W. G. Rest. No. 946,678; Jan. 18; Sp. p. 3722; Gaz. vol. 150; p. 623.
Airship-controlling device. A. von Parseval. No. 970,262; Sept. 13; Sp. p. 2409; Gaz. vol. 158; p. 406.
Airship-hall with temporarily-removable roof. N. Rueben. No. 956,428; Apr. 26; Sp. p. 5933; Gaz. vol. 153; p. 1032.
Airship mechanism, Captive. V. C. de Ybarrondo. No. 973,398; Oct. 18; Sp. p. 4158; Gaz. vol. 159; p. 709.
Airship, Ocean-. R. Schmiechen. No. 969,200; Sept. 6; Sp. p. 124; Gaz. vol. 158; p. 20.
Airship, Ocean-. R. Schmiechen. No. 977,555; Dec. 6; Sp. p. 320; Gaz. vol. 161; p. 47.
Airship of the rigid type. J. Massohn. No. 979,979; Dec. 27; Sp. p. 5532; Gaz. vol. 161; p. 955.
Airship propelling and steering device. E. Hoult. No. 969,627; Sept. 6; Sp. p. 1015; Gaz. vol. 158; p. 162.
Airships and other flying-machines, Means for maintaining the equilibrium of. R. Schmiechen. No. 977,556; Dec. 6; Sp. p. 328; Gaz. vol. 161; p. 48.
Airships, Car suspension for. G. A. Crocco and O. Ricaldoni. No. 975,330; Nov. 8; Sp. p. 2818; Gaz. vol. 160; p. 456.
Airships, Device for feeding ballonnets on. M. Kapferer. No. 958,926; May 24; Sp. p. 5482; Gaz. vol. 154; p. 919.
Airships from the force of the wind, Means for sheltering the landing-places of. H. Gothan. No. 966,395; Aug. 2; Sp. p. 1135; Gaz. vol. 157; p. 183.
Alarm: *See* Automatic alarm; Boiler-alarm; Burglar-alarm; Burglar and fire alarm; Electric alarm; Fire-alarm; Glue-heater alarm; High and low water alarm; Incubator-alarm; Lock-alarm; Pressure-gage alarm; Sash-lock and burglar-alarm; Sprinkler-alarm; Switch-alarm; Temperature-alarm; Time-alarm; Vessel-loading alarm; Water-meter alarm; Window-alarm.
Alarm. A. Coyne. No. 948,848; Feb. 8; Sp. p. 2265; Gaz. vol. 151; p. 384.
Alarm. V. Puha. No. 966,950; Aug. 9; Sp. p. 2408; Gaz. vol. 157; p. 396.
Alarm. J. M. Butcher. No. 967,322; Aug. 16; Sp. p. 3185; Gaz. vol. 157; p. 551.
Alarm and current-saving apparatus for automatic exchanges. A. M. Bullard. No. 949,881; Feb. 22; Sp. p. 4426; Gaz. vol. 151; p. 792.
Alarm and signaling system. G. M. Willis. No. 947,208; Jan. 18; Sp. p. 4849; Gaz. vol. 150; p. 800.
Alarm apparatus. F. Pesce. No. 952,710; Mar. 22; Sp. p. 4596; Gaz. vol. 152; p. 833.
Alarm apparatus. J. E. Hall. No. 954,675; Apr. 12; Sp. p. 2106; Gaz. vol. 153; p. 369.

Alphabetical list of inventions—Continued.

Alarm apparatus, Switch mechanism for electrical. A. V. Strait. No. 945,634; Jan. 4; Sp. p. 1346; Gaz. vol. 150; p. 209.

Alarm call-box, Electrically-operated non-interfering. P. A. Brown. No. 949,970; Feb. 22; Sp. p. 4611; Gaz. vol. 151; p. 823.

Alarm for indicating life in buried persons. A. M. Bartholomew. No. 956,268; Apr. 26; Sp. p. 5607; Gaz. vol. 153; p. 977.

Alarm system. O. B. Kaiser. No. 948,055; Feb. 1; Sp. p. 575; Gaz. vol. 151; p. 92.

Alarm system. A. Goldstein. No. 966,901; Aug. 9; Sp. p. 2318; Gaz. vol. 157; p. 380.

Alarm system. W. J. St. Onge. No. 975,175; Nov. 8; Sp. p. 2492; Gaz. vol. 160; p. 403.

Alarm system, Central-energy. J. C. Francis. No. 966,897; Aug. 9; Sp. p. 2309; Gaz. vol. 157; p. 378.

Alarm system, Central-energy electrical temperature-. A. Goldstein and C. H. Pool. No. 977,296; Nov. 29; Sp. p. 7085; Gaz. vol. 160; p. 1205.

Alarm system, Electrical. A. Goldstein. No. 966,903; Aug. 9; Sp. p. 2321; Gaz. vol. 157; p. 381.

Alarm system, Electrical. F. Castle. No. 973,627; Oct. 25; Sp. p. 4653; Gaz. vol. 159; p. 809.

Alarm system, Electrical thermostatic. A. Goldstein. No. 977,295; Nov. 29; Sp. p. 7083; Gaz. vol. 160; p. 1205.

Alarms, Circuit-closer for. F. A. Schultz. No. 970,124; Sept. 13; Sp. p. 2098; Gaz. vol. 158; p. 357.

Alarms or other devices, Apparatus for operating. G. I. Rockwood. No. 970,953; Sept. 20; Sp. p. 3867; Gaz. vol. 158; p. 660.

Album. H. Knopping. No. 962,643; June 28; Sp. p. 5083; Gaz. vol. 155; p. 889.

Album for holding disk records. T. W. Wright. No. 958,059; May 17; Sp. p. 3532; Gaz. vol. 154; p. 595.

Albumen preparation for albuminoids and salts of guaiacol-sulfonic acids. A. Busch. No. 979,645; Dec. 27; Sp. p. 4812; Gaz. vol. 161; p. 845.

Albuminoid compound, Indurated. B. B. Goldsmith. No. 965,137; July 19; Sp. p. 4614; Gaz. vol. 156; p. 769.

Alcohol and by-products and apparatus therefor, Manufacture of. H. O. Chute. No. 963,275; July 5; Sp. p. 632; Gaz. vol. 156; p. 88.

Alcohol and other volatile substances from empty barrels, casks, &c., Recovering. W. Miller. No. 951,507; Mar. 8; Sp. p. 2128; Gaz. vol. 152; p. 369.

Alcohol from the lining of barrels, &c., Apparatus for recovering. J. J. Gilchrist. No. 951,110; Mar. 8; Sp. p. 1311; Gaz. vol. 152; p. 240.

Alfalfa and like materials, Machine for comminuting. A. M. Allen. No. 969,739; Sept. 6; Sp. p. 1257; Gaz. vol. 158; p. 202.

Alfalfa feed mixture. E. Gloor and W. W. Pascal. No. 969,267; Sept. 6; Sp. p. 248; Gaz. vol. 158; p. 40.

Alfalfa-grinding machine. H. C. Edwards. No. 979,063; Dec. 20; Sp. p. 3549; Gaz. vol. 161; p. 621.

Alfalfa-meal mixer. W. H. Kissel. No. 958,254; May 17; Sp. p. 3925; Gaz. vol. 154; p. 660.

Alfalfa-mills, Feeder for. W. Miks. No. 955,090; Apr. 12; Sp. p. 3011; Gaz. vol. 153; p. 511.

Alidade, Cross-bearing. B. V. How. No. 965,462; July 26; Sp. p. 5322; Gaz. vol. 156; p. 909.

Alizarin preparation and making same. E. Franke. No. 965,804; July 26; Sp. p. 6070; Gaz. vol. 156; p. 1029.

Alkali-chlorid solutions, Apparatus for the electrolytical decomposition of. J. J. Rink. No. 947,741; Jan. 25; Sp. p. 6052; Gaz. vol. 150; p. 1009.

Alkali phenolates of orthoöxymercuric salicylic anhydrid. W. Schoeller and W. Schrauth. No. 967,838; Aug. 16; Sp. p. 4244; Gaz. vol. 157; p. 726.

Alkali salts of orthoöxymercuric salicylic acid, Secondary. W. Schoeller and W. Schrauth. No. 967,839; Aug. 16; Sp. p. 4245; Gaz. vol. 157; p. 726.

Alkali thiosulfates, Making. L. Destree. No. 961,760; June 21; Sp. p. 3142; Gaz. vol. 155; p. 565.

Alkaline battery. W. Morrison. No. 975,980; Nov. 15; Sp. p. 4160; Gaz. vol. 160; p. 704.

Alkaline battery containing chromium and mercury. W. Morrison. No. 975,885; Nov. 15; Sp. p. 3982; Gaz. vol. 160; p. 671.

Alkaline chlorids, Purifying. C. H. Dasher. No. 956,303; Apr. 26; Sp. p. 5685; Gaz. vol. 153; p. 989.

Alloy. J. T. H. Dempster. No. 953,412; Mar. 29; Sp. p. 6105; Gaz. vol. 152; p. 1097.

Alloy and a compound for the production thereof. W. Rübel. No. 964,122; July 12; Sp. p. 2412; Gaz. vol. 156; p. 396.

Alloy and making same. L. C. Dodd. No. 971,669; Oct. 4; Sp. p. 334; Gaz. vol. 159; p. 59.

Alloy, Antifriction. J. R. Stratton. No. 972,786; Oct. 11; Sp. p. 2759; Gaz. vol. 159; p. 469.

Alloy, Electrical-resistance. W. B. Driver. No. 961,217; June 14; Sp. p. 1984; Gaz. vol. 155; p. 358.

Alloy, Electrical-resistance. J. T. H. Dempster. No. 963,123; July 5; Sp. p. 253; Gaz. vol. 156; p. 34.

Alloy, High-resistance iron. W. R. Whitney. No. 952,290; Mar. 15; Sp. p. 3696; Gaz. vol. 152; p. 661.

Alloy of zinc and titanium and their production. A. J. Rossi. No. 979,393; Dec. 20; Sp. p. 4262; Gaz. vol. 161; p. 733.

Alloy, Steel. S. S. Wales. No. 952,391; Mar. 15; Sp. p. 3883; Gaz. vol. 152; p. 695.

Alloy, Steel. S. S. Wales. No. 952,392; Mar. 15; Sp. p. 3883; Gaz. vol. 152; p. 695.

Alloys and the product thereof, Making copper. J. Naulty and J. Scanlin. No. 974,419; Nov. 1; Sp. p. 764; Gaz. vol. 160; p. 116.

Alloys and the separation of metals, Producing. P. F. Cowing. No. 969,773; Sept. 13; Sp. p. 1350; Gaz. vol. 158; p. 237.

Alloys, Making copper. G. Boericke. No. 959,048; May 24; Sp. p. 5712; Gaz. vol. 154; p. 959.

Alloys, Manufacture of iron-nickel-copper. G. H. Clamer. No. 965,871; Aug. 2; Sp. p. 50; Gaz. vol. 157; p. 10.

Alloys of tin and titanium, Production of. A. J. Rossi. No. 979,394; Dec. 20; Sp. p. 4264; Gaz. vol. 161; p. 733.

Alloys, Treating nickel-copper. J. F. Thompson. No. 947,067; Jan. 18; Sp. p. 4578; Gaz. vol. 150; p. 755.

Allyl sulfocarbamid bismuth tri-iodid. F. S. Mason. No. 976,669; Nov. 22; Sp. p. 5702; Gaz. vol. 160; p. 964.

Alternator, Exciting-. C. H. Kicklighter. No. 955,171; Apr. 19; Sp. p. 3176; Gaz. vol. 153; p. 570.

Alum solution for paper-makers' use, Apparatus for providing. S. Hardman. No. 979,482; Dec. 27; Sp. p. 4450; Gaz. vol. 161; p. 786.

Aluminous material, Purifying. L. E. Saunders. No. 960,712; June 7; Sp. p. 962; Gaz. vol. 155; p. 160.

Aluminum and its alloys, Manufacture of. H. F. D. Schwahn. No. 964,566; July 19; Sp. p. 3365; Gaz. vol. 156; p. 575.

Aluminum and titanium, Composition of matter containing oxids of. L. E. Saunders. No. 954,767; Apr. 12; Sp. p. 2330; Gaz. vol. 153; p. 403.

Aluminum fluorid and other aluminum compounds, Making. P. A. Emanuel. No. 957,754; May 10; Sp. p. 2658; Gaz. vol. 154; p. 458.

Aluminum fluosilicate, Making. E. F. Kern. No. 963,156; July 5; Sp. p. 331; Gaz. vol. 156; p. 47.

Aluminum, silicon, and titanium and making same, Composition of matter containing oxids of. L. E. Saunders. No. 954,768; Apr. 12; Sp. p. 2330; Gaz. vol. 153; p. 403.

Amalgam, Making liquid sodium. H. P. Ewell. No. 969,853; Sept. 13; Sp. p. 1541; Gaz. vol. 158; p. 265.

Amalgamating apparatus. W. Montgomery and G. Weithas. No. 955,604; Apr. 19; Sp. p. 4128; Gaz. vol. 153; p. 718.

Amalgamating-machine. J. S. Rayburn. No. 962,466; June 28; Sp. p. 4707; Gaz. vol. 155; p. 829.

Amalgamating-riffle. E. S. Hoyt. No. 963,005; June 28; Sp. p. 5791; Gaz. vol. 155; p. 1014.

Amalgamator. C. R. Hotchkiss. No. 945,539; Jan. 4; Sp. p. 1148; Gaz. vol. 150; p. 178.

Amalgamator. F. Stienen. No. 956,222; Apr. 26; Sp. p. 5513; Gaz. vol. 153; p. 962.

Amalgamator. A. J. Smith and H. W. Kent. No. 961,905; June 21; Sp. p. 3460; Gaz. vol. 155; p. 612.

Amalgamator. J. P. Beaupre and A. Heimbach. No. 967,158; Aug. 16; Sp. p. 2861; Gaz. vol. 157; p. 495.

Amalgamator. N. Simon and E. E. Thibault. No. 968,888; Aug. 30; Sp. p. 6509; Gaz. vol. 157; p. 1133.

Amalgamator. J. H. McNeil. No. 970,536; Sept. 20; Sp. p. 2968; Gaz. vol. 158; p. 518.

Amalgamator. J. H. McNeil. No. 975,704; Nov. 15; Sp. p. 3614; Gaz. vol. 160; p. 609.

Ambulance. W. von Oettingen. No. 954,760; Apr. 12; Sp. p. 2317; Gaz. vol. 153; p. 400.

Aminoacetylpyrocatechin, Producing. W. Gruettefien. No. 970,217; Sept. 13; Sp. p. 2318; Gaz. vol. 158; p. 390.

Aminoacidylpyrocatechin and making same. W. Grüttefien. No. 970,042; Sept. 13; Sp. p. 1945; Gaz. vol. 158; p. 330.

Ammonia, alkyl ammonia, or ammonia bases, Making. H. S. Blackmore. No. 974,633; Nov. 1; Sp. p. 1265; Gaz. vol. 160; p. 195.

Ammonia, alkyl ammonia, or ammonia bases, Making. H. S. Blackmore. No. 974,742; Nov. 1; Sp. p. 1503; Gaz. vol. 160; p. 231.

Ammonia-condenser and liquid-cooler. A. H. Baer. No. 953,577; Mar. 29; Sp. p. 6456; Gaz. vol. 152; p. 1155.

Ammonia from coal-gases and the like, Recovering. J. A. Roelofsen. No. 969,907; Sept. 13; Sp. p. 1648; Gaz. vol. 158; p. 284.

Ammonia from gas, Obtaining. H. Koppers. No. 945,332; Jan. 4; Sp. p. 719; Gaz. vol. 150; p. 110.

Ammonia-leak tester. W. N. Thompson. No. 977,761; Dec. 6; Sp. p. 758; Gaz. vol. 161; p. 117.

Ammonia, Making. C. Bosch. No. 957,843; May 10; Sp. p. 2834; Gaz. vol. 154; p. 486.

Ammonia, Manufacturing. F. W. Frerichs. No. 946,427; Jan. 11; Sp. p. 3198; Gaz. vol. 150; p. 515.

Ammonia, Obtaining. N. Caro. No. 970,883; Sept. 20; Sp. p. 3731; Gaz. vol. 158; p. 638.

Ammonia or other nitrogen-hydrogen binary compounds, Making. H. S. Blackmore. No. 974,741; Nov. 1; Sp. p. 1498; Gaz. vol. 160; p. 231.

Ammonia, Production of. F. Haber and R. Le Rossignol. No. 971,501; Sept. 27; Sp. p. 4957; Gaz. vol. 158; p. 868.

Ammonia, Removing tar in recovering. E. Wagener. No. 977,909; Dec. 6; Sp. p. 1060; Gaz. vol. 161; p. 169.

Ammonia-saturator. H. Koppers. No. 953,960; Apr. 5; Sp. p. 538; Gaz. vol. 153; p. 98.

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Ammonia-saturator. J. A. Roelofsen. No. 969,906; Sept. 13; Sp. p. 1647; Gaz. vol. 158; p. 284.
Ammonium chlorid, Making. F. A. Freeth and H. E. Cocksedge. No. 970,909; Sept. 20; Sp. p. 3784; Gaz. vol. 158; p. 646.
Ammonium salts from gas, Obtaining. K. Burkheiser. No. 973,164; Oct. 18; Sp. p. 3661; Gaz. vol. 159; p. 628.
Ammonium sulfate from gas, Recovering. H. Koppers. No. 953,959; Apr. 5; Sp. p. 537; Gaz. vol. 153; p. 97.
Ammonium sulfate from gases, Obtaining. N. Caro. No. 952,560; Mar. 22; Sp. p. 4257; Gaz. vol. 152; p. 780.
Ammunition for selective shooting. H. Dorn. No. 949,063; Feb. 15; Sp. p. 2706; Gaz. vol. 151; p. 481.
Ammunition for small-arms, Rim-fire. W. H. Buell. No. 966,163; Aug. 2; Sp. p. 694; Gaz. vol. 157; p. 109.
Ammunition, Primer for small-arm. W. H. Buell. No. 962,888; June 28; Sp. p. 5582; Gaz. vol. 155; p. 976.
Amusement apparatus. A. Bragg. No. 946,200; Jan. 11; Sp. p. 2616; Gaz. vol. 150; p. 434.
Amusement apparatus. A. W. Jones. No. 946,730; Jan. 18; Sp. p. 3833; Gaz. vol. 150; p. 640.
Amusement apparatus. B. A. Karr. No. 952,673; Mar. 22; Sp. p. 4517; Gaz. vol. 152; p. 821.
Amusement apparatus. D. H. Cleghorn. No. 953,459; Mar. 29; Sp. p. 6201; Gaz. vol. 152; p. 1112.
Amusement apparatus. J. H. Reynolds and J. McDonagh. No. 954,207; Apr. 5; Sp. p. 1103; Gaz. vol. 153; p. 183.
Amusement apparatus. A. A. Welsh. No. 956,243; Apr. 26; Sp. p. 5556; Gaz. vol. 153; p. 968.
Amusement apparatus. M. D. Ferguson. No. 956,488; Apr. 26; Sp. p. 6086; Gaz. vol. 153; p. 1053.
Amusement apparatus. R. Fulgora, F. S. and W. Murray. No. 961,947; June 21; Sp. p. 3549; Gaz. vol. 155; p. 626.
Amusement apparatus. A. Bragg. No. 964,383; July 12; Sp. p. 2921; Gaz. vol. 156; p. 482.
Amusement apparatus. W. S. Van Sant. No. 965,768; July 26; Sp. p. 5985; Gaz. vol. 156; p. 1017.
Amusement apparatus. H. N. Ridgway. No. 968,803; Aug. 30; Sp. p. 6340; Gaz. vol. 157; p. 1105.
Amusement apparatus. W. J. Keefe. No. 968,955; Aug. 30; Sp. p. 6643; Gaz. vol. 157; p. 1157.
Amusement apparatus. W. S. Van Sant. No. 969,313; Sept. 6; Sp. p. 333; Gaz. vol. 158; p. 55.
Amusement apparatus. T. F. Gilbride. No. 971,003; Sept. 20; Sp. p. 3955; Gaz. vol. 158; p. 676.
Amusement apparatus. P. Wintermute. No. 972,310; Oct. 11; Sp. p. 1737; Gaz. vol. 159; p. 305.
Amusement apparatus. G. A. Budge. No. 972,750; Oct. 11; Sp. p. 2694; Gaz. vol. 159; p. 458.
Amusement apparatus. W. P. Chamberlain, Jr. No. 973,105; Oct. 18; Sp. p. 3509; Gaz. vol. 159; p. 606.
Amusement apparatus. W. W. McFarland. No. 976,896; Nov. 29; Sp. p. 6195; Gaz. vol. 160; p. 1066.
Amusement apparatus. E. Kohler. No. 979,171; Dec. 20; Sp. p. 3825; Gaz. vol. 161; p. 661.
Amusement apparatus. M. J. Doran. No. 979,385; Dec. 20; Sp. p. 4240; Gaz. vol. 161; p. 731.
Amusement apparatus or aviator-instructor. H. B. Anderson and B. B. Brockway. No. 978,263; Dec. 13; Sp. p. 1839; Gaz. vol. 161; p. 321.
Amusement apparatus, Roundabout. F. E. Mendenhall. No. 965,644; July 26; Sp. p. 5732; Gaz. vol. 156; p. 975.
Amusement apparatus with undulating floor. T. Van Kannel. No. 953,724; Apr. 5; Sp. p. 80; Gaz. vol. 153; p. 17.
Amusement device. R. Farrell. No. 949,532; Feb. 15; Sp. p. 3671; Gaz. vol. 151; p. 639.
Amusement device. J. M. Ross and A. Holton. No. 950,348; Feb. 22; Sp. p. 5436; Gaz. vol. 151; p. 953.
Amusement device. G. A. Rosquist. No. 952,843; Mar. 22; Sp. p. 4884; Gaz. vol. 152; p. 879.
Amusement device. W. H. Stubbings, Jr. No. 953,721; Apr. 5; Sp. p. 77; Gaz. vol. 153; p. 17.
Amusement device. F. Jackson. No. 955,407; Apr. 19; Sp. p. 3704; Gaz. vol. 153; p. 651.
Amusement device. J. J. Treanor. No. 956,838; May 3; Sp. p. 734; Gaz. vol. 154; p. 116.
Amusement device. M. Kern. No. 961,239; June 14; Sp. p. 2027; Gaz. vol. 155; p. 365.
Amusement device. B. F. Fitch. No. 961,595; June 14; Sp. p. 2808; Gaz. vol. 155; p. 485.
Amusement device. P. Linker. No. 969,068; Aug. 30; Sp. p. 6869; Gaz. vol. 157; p. 1195.
Amusement device. F. Morgan. No. 970,531; Sept. 20; Sp. p. 2961; Gaz. vol. 158; p. 516.
Amusement device. A. A. Brengel. No. 973,618; Oct. 25; Sp. p. 4631; Gaz. vol. 159; p. 805.
Amusement device. W. Nemsey. No. 975,984; Nov. 15; Sp. p. 4167; Gaz. vol. 160; p. 705.
Amusement device. M. Salmond. No. 978,489; Dec. 13; Sp. p. 2319; Gaz. vol. 161; p. 400.
Amusement device. H. Hertzberg and M. J. Wohl. No. 978,884; Dec. 20; Sp. p. 3143; Gaz. vol. 161; p. 558.
Amusement mechanism. R. C. Barrie. No. 963,265; July 5; Sp. p. 610; Gaz. vol. 156; p. 85.
Amusement purposes, Pit for. H. N. Ridgway. No. 945,604; Jan. 4; Sp. p. 1476; Gaz. vol. 150; p. 199.
Anchor. H. Fuchs. No. 945,269; Jan. 4; Sp. p. 550; Gaz. vol. 150; p. 90.
Anchor. J. W. Neal. No. 957,621; May 10; Sp. p. 2384; Gaz. vol. 154; p. 413.
Anchor. J. E. Wilde. No. 957,830; May 10; Sp. p. 2805; Gaz. vol. 154; p. 482.
Anchor. W. M. Bateman and J. C. Levett. No. 961,095; June 14; Sp. p. 1734; Gaz. vol. 155; p. 315.
Anchor. L. N. Stewart. No. 977,757; Dec. 6; Sp. p. 737; Gaz. vol. 161; p. 116.
Anchor-bolt. F. Nevins. No. 969,111; Aug. 30; Sp. p. 6956; Gaz. vol. 157; p. 1211.
Anchor-bolt, Lead-packed. G. E. Rohmer. No. 977,402; Nov. 29; Sp. p. 7347; Gaz. vol. 160; p. 1242.
Anchor, Earth-. F. B. Miller. No. 963,791; July 12; Sp. p. 1705; Gaz. vol. 156; p. 284.
Anchor foot-plate and shipping apparatus therefor, Bow-. S. G. Perry and C. F. Stapf. No. 965,931; Aug. 2; Sp. p. 172; Gaz. vol. 157; p. 29.
Anchor for airships and the like, Safety-. F. von Ehrenberg. No. 951,942; Mar. 15; Sp. p. 3019; Gaz. vol. 152; p. 547.
Anchor for guy-wires, &c. E. H. Lichtenberg. No. 975,543; Nov. 15; Sp. p. 3276; Gaz. vol. 160; p. 556.
Anchor, Ground-. H. Fuchs. No. 954,510; Apr. 12; Sp. p. 1743; Gaz. vol. 153; p. 313.
Anchor, Ground-. J. Wilcox. No. 972,306; Oct. 11; Sp. p. 1731; Gaz. vol. 159; p. 303.
Anchor-socket. I. Cowles. No. 960,625; June 7; Sp. p. 794; Gaz. vol. 155; p. 130.
Anchor-storage. N. D. Powell. No. 954,882; Apr. 12; Sp. p. 2611; Gaz. vol. 153; p. 443.
Anchors, Guy-wire connection for land-. F. M. Viles. No. 957,823; May 10; Sp. p. 2795; Gaz. vol. 154; p. 480.
Andirons and fender. M. B. and J. K. Heller. No. 969,953; Sept. 13; Sp. p. 1744; Gaz. vol. 158; p. 299.
Anesthetic, Local. N. Sulzberger. No. 949,134; Feb. 15; Sp. p. 2858; Gaz. vol. 151; p. 505.
Anesthetics, Apparatus for administering. C. A. Hollett. No. 955,121; Apr. 12; Sp. p. 3066; Gaz. vol. 153; p. 520.
Anesthetics, Apparatus for administering. M. J. Wunderlich. No. 968,306; Aug. 23; Sp. p. 5269; Gaz. vol. 157; p. 908.
Anesthetics, Apparatus for the administration of general. C. H. Frink. No. 978,728; Dec. 13; Sp. p. 2840; Gaz. vol. 161; p. 482.
Angle-bar, Safety. S. J. Routledge. No. 980,009; Dec. 27; Sp. p. 5593; Gaz. vol. 161; p. 966.
Angle-bisector. C. A. Lydin. No. 975,969; Nov. 15; Sp. p. 4145; Gaz. vol. 160; p. 701.
Angle-bracket. L. Lilley. No. 973,674; Oct. 25; Sp. p. 4758; Gaz. vol. 159; p. 827.
Angle-finder. R. E. Humbert. No. 956,356; Apr. 26; Sp. p. 5787; Gaz. vol. 153; p. 1006.
Angle-piece for use in structural frames, metallic standards, &c., Rigid metal. P. Phipps. No. 952,016; Mar. 15; Sp. p. 3165; Gaz. vol. 152; p. 570.
Anilin black on fibers and fabrics, Production of. A. G. Green. No. 959,516; May 31; Sp. p. 6701; Gaz. vol. 154; p. 1140.
Animal-cleaning apparatus. C. Hammer. (Reissue.) No. 13,078; Jan. 25; Sp. p. 6128; Gaz. vol. 150; p. 1021.
Animal cleaning or dehairing machines, Beater-arms for. A. Hannaford. No. 954,431; Apr. 12; Sp. p. 1547; Gaz. vol. 153; p. 285.
Animal-covering. I. E. Palmer. No. 965,834; July 26; Sp. p. 6131; Gaz. vol. 156; p. 1040.
Animal foot-brace. T. Kupfer. No. 950,232; Feb. 22; Sp. p. 5218; Gaz. vol. 151; p. 915.
Animal-jaw puller. E. B. Perrigo. No. 962,782; June 28; Sp. p. 5373; Gaz. vol. 155; p. 939.
Animal-releasing device. D. Roschen. No. 963,182; July 5; Sp. p. 395; Gaz. vol. 156; p. 56.
Animal-shears. J. D. Scovel. No. 971,931; Oct. 4; Sp. p. 920; Gaz. vol. 159; p. 156.
Animal-shears. G. Schneider. No. 974,604; Nov. 1; Sp. p. 1199; Gaz. vol. 160; p. 184.
Animal-shelter. C. J. Bear. No. 970,873; Sept. 20; Sp. p. 3716; Gaz. vol. 158; p. 635.
Animal-trap. A. Marchand. No. 947,250; Jan. 25; Sp. p. 4947; Gaz. vol. 150; p. 843.
Animal-trap. J. A. Petro. No. 947,560; Jan. 25; Sp. p. 5705; Gaz. vol. 150; p. 947.
Animal-trap. L. D. Pearsall. No. 954,045; Apr. 5; Sp. p. 725; Gaz. vol. 153; p. 127.
Animal-trap. J. Jackson. No. 955,075; Apr. 12; Sp. p. 2985; Gaz. vol. 153; p. 506.
Animal-trap. E. H. McAleer. No. 956,138; Apr. 26; Sp. p. 5309; Gaz. vol. 153; p. 933.
Animal-trap. P. J. Kottum. No. 958,505; May 17; Sp. p. 4570; Gaz. vol. 154; p. 750.
Animal-trap. D. H. Harman. No. 960,170; May 31; Sp. p. 8100; Gaz. vol. 154; p. 1362.
Animal-trap. M. Jaeger. No. 963,574; July 5; Sp. p. 1232; Gaz. vol. 156; p. 189.
Animal-trap. J. R. Briggs. No. 964,488; July 19; Sp. p. 3152; Gaz. vol. 156; p. 548.
Animal-trap. G. Portsche. No. 964,808; July 19; Sp. p. 3963; Gaz. vol. 156; p. 659.
Animal-trap. W. Nepean-Hutchison. No. 964,877; July 19; Sp. p. 4099; Gaz. vol. 156; p. 683.
Animal-trap. J. Opperud. No. 965,318; July 26; Sp. p. 5004; Gaz. vol. 156; p. 861.
Animal-trap. H. R. Arbuckle. No. 965,618; July 26; Sp. p. 5684; Gaz. vol. 156; p. 966.

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Animal-trap. W. J. Sevigné. No. 967,576; Aug. 16; Sp. p. 3712; Gaz. vol. 157; p. 639.
Animal-trap. C. Shaeffer. No. 968,273; Aug. 23; Sp. p. 5208; Gaz. vol. 157; p. 896.
Animal-trap. J. Hollenback. No. 968,946; Aug. 30; Sp. p. 6622; Gaz. vol. 157; p. 1153.
Animal-trap. J. F. Draper. No. 971,530; Oct. 4; Sp. p. 39; Gaz. vol. 159; p. 9.
Animal-trap. R. E. Riday. No. 973,213; Oct. 18; Sp. p. 3778; Gaz. vol. 159; p. 646.
Animal-trap. C. A. Wyman. No. 975,098; Nov. 8; Sp. p. 2301; Gaz. vol. 160; p. 377.
Animal-trap. E. M. Alderman. No. 975,741; Nov. 15; Sp. p. 3694; Gaz. vol. 160; p. 622.
Animal-trap. J. Drubko. No. 976,789; Nov. 22; Sp. p. 5954; Gaz. vol. 160; p. 1005.
Animal-trap. B. P. Rokleder. No. 977,550; Dec. 6; Sp. p. 310; Gaz. vol. 161; p. 46.
Animal-trap. B. Hatchell. No. 978,742; Dec. 13; Sp. p. 2872; Gaz. vol. 161; p. 486.
Animal-trap. J. Meyer. No. 979,020; Dec. 20; Sp. p. 3461; Gaz. vol. 161; p. 607.
Animal-trap. W. Roloff. No. 979,339; Dec. 20; Sp. p. 4160; Gaz. vol. 161; p. 717.
Animal trap or dip. L. Morris. No. 976,678; Nov. 22; Sp. p. 5713; Gaz. vol. 160; p. 967.
Animals, Apparatus for applying solutions to. F. R. Dresback and E. M. Reckards. No. 974,042; Oct. 25; Sp. p. 5512; Gaz. vol. 159; p. 955.
Ankle-joint for artificial limbs. J. F. Rowley. No. 969,196; Sept. 6; Sp. p. 116; Gaz. vol. 158; p. 19.
Annealing and tempering apparatus. W. R. Parsons. No. 957,998; May 17; Sp. p. 3259; Gaz. vol. 154; p. 572.
Annealing apparatus. A. W. Machlet. No. 961,305; June 14; Sp. p. 2173; Gaz. vol. 155; p. 389.
Annealing-box. J. E. Bossingham. No. 951,556; Mar. 8; Sp. p. 2224; Gaz. vol. 152; p. 386.
Annealing-furnace. J. D. Swindell. No. 960,434; June 7; Sp. p. 393; Gaz. vol. 155; p. 65.
Annealing-furnace. J. L. Butler. No. 979,425; Dec. 27; Sp. p. 4327; Gaz. vol. 161; p. 768.
Annealing furnace, Metal-. M. Pedersen. No. 955,989; Apr. 26; Sp. p. 4982; Gaz. vol. 153; p. 881.
Annealing furnaces, Delivery apparatus for bottle-. C. Brauer. No. 962,811; June 28; Sp. p. 5432; Gaz. vol. 155; p. 949.
Annealing-ring. C. G. Overmyer. No. 958,674; May 17; Sp. p. 4898; Gaz. vol. 154; p. 804.
Annunciating apparatus, Electric. H. J. Alther. No. 976,836; Nov. 29; Sp. p. 6053; Gaz. vol. 160; p. 1045.
Annunciator. D. A. Buoker. No. 946,692; Jan. 18; Sp. p. 3753; Gaz. vol. 150; p. 628.
Annunciator. C. Miller. No. 956,815; May 3; Sp. p. 686; Gaz. vol. 154; p. 108.
Annunciator. W. W. Dean. No. 968,646; Aug. 30; Sp. p. 5983; Gaz. vol. 157; p. 1052.
Annunciator. A. Lungen. No. 973,676; Oct. 25; Sp. p. 4761; Gaz. vol. 159; p. 827.
Annunciator and indicator, Pneumatic. C. B. Withrow. No. 961,055; June 7; Sp. p. 1637; Gaz. vol. 155; p. 274.
Annunciator-drop. C. Auth. No. 959,193; May 24; Sp. p. 6026; Gaz. vol. 154; p. 1007.
Annunciator-drop. C. Auth. No. 959,194; May 24; Sp. p. 6028; Gaz. vol. 154; p. 1007.
Annunciator, Elevator-. W. W. Savage. No. 961,025; June 7; Sp. p. 1579; Gaz. vol. 155; p. 265.
Annunciator, Indicating-. C. G. Behre. No. 950,740; Mar. 1; Sp. p. 603; Gaz. vol. 152; p. 95.
Annunciator, Time-limit. M. Welsh. No. 961,276; June 14; Sp. p. 2110; Gaz. vol. 155; p. 378.
Answer-back signal. E. R. Gill. No. 978,733; Dec. 13; Sp. p. 2951; Gaz. vol. 161; p. 483.
Ant-trap. C. R. Miller. No. 970,528; Sept. 20; Sp. p. 2957; Gaz. vol. 158; p. 515.
Antenna. R. H. Marriott. No. 972,004; Oct. 4; Sp. p. 1090; Gaz. vol. 159; p. 183.
Anthracene compound and making it. M. H. Isler and H. Wolff. No. 961,612; June 14; Sp. p. 2834; Gaz. vol. 155; p. 491.
Anthracene compound and making same. F. Kačer. No. 970,340; Sept. 13; Sp. p. 2551; Gaz. vol. 158; p. 430.
Anthraquinone acridones. F. Ullmann. No. 961,047; June 7; Sp. p. 1625; Gaz. vol. 155; p. 272.
Anthraquinone derivatives and making same. E. Hepp and C. Hartmann. No. 975,863; Nov. 15; Sp. p. 3939; Gaz. vol. 160; p. 663.
Anthraquinone-di-acridones. F. Ullmann. No. 961,048; June 7; Sp. p. 1626; Gaz. vol. 155; p. 272.
Anti-induction device. M. M. Davis. No. 955,141; Apr. 19; Sp. p. 3120; Gaz. vol. 153; p. 560.
Anti-rail-creeper. E. T. Ford and F. F. Wassam. No. 956,327; Apr. 26; Sp. p. 5732; Gaz. vol. 153; p. 998.
Anticreeper. J. Player, Jr. No. 974,821; Nov. 8; Sp. p. 1677; Gaz. vol. 160; p. 281.
Antifreezing-closet. N. Peterson. No. 956,729; May 3; Sp. p. 494; Gaz. vol. 154; p. 79.
Antifreezing-tank. L. Heisel. No. 957,557; May 10; Sp. p. 2263; Gaz. vol. 154; p. 392.
Antimony compounds, Making. P. Boessneck. No. 952,704; Mar. 22; Sp. p. 4582; Gaz. vol. 152; p. 831.
Antimony from ores and the like, Recovering. J. R. Masson. No. 975,148; Nov. 8; Sp. p. 2421; Gaz. vol. 160; p. 393.
Antimony ores, Apparatus for treating. H. L. Herrenschmidt. No. 953,142; Mar. 29; Sp. p. 5520; Gaz. vol. 152; p. 1007.
Antimony ores, Treating. H. L. Herrenschmidt. No. 948,545; Feb. 8; Sp. p. 1609; Gaz. vol. 151; p. 283.
Antiphase reversing device. W. N. Dickinson, Jr. No. 949,465; Feb. 15; Sp. p. 3537; Gaz. vol. 151; p. 617.
Antiseptic and perfumed block. L. Eilertsen. No. 975,405; Nov. 15; Sp. p. 2979; Gaz. vol. 160; p. 506.
Antiseptic body germ protector. H. Jaffee and E. M. Dörstewitz. No. 966,838; Aug. 9; Sp. p. 2185; Gaz. vol. 157; p. 359.
Antisiphon-trap. G. W. Smith. No. 945,423; Jan. 4; Sp. p. 905; Gaz. vol. 150; p. 141.
Antiskid device, Adjustable. D. E. J. Brockett. No. 953,658; Mar. 29; Sp. p. 6622; Gaz. vol. 152; p. 1182.
Antiskid device or chain. R. N. Evans. No. 979,139; Dec. 20; Sp. p. 3752; Gaz. vol. 161; p. 650.
Antiskidding and traction device for automobile and other wheels. W. Reagan. No. 968,414; Aug. 23; Sp. p. 5484; Gaz. vol. 157; p. 945.
Antiskidding and traction device for automobile-wheels. W. Reagan. No. 968,415; Aug. 23; Sp. p. 5486; Gaz. vol. 157; p. 945.
Antiskidding chain. J. I. Edgerton. No. 968,751; Aug. 30; Sp. p. 6234; Gaz. vol. 157; p. 1090.
Antiskidding device. E. B. Stimpson. No. 945,057; Jan. 4; Sp. p. 105; Gaz. vol. 150; p. 18.
Antiskidding device. J. F. Cooper. No. 949,113; Feb. 15; Sp. p. 2812; Gaz. vol. 151; p. 497.
Antiskidding device. N. Barnett. No. 955,306; Apr. 19; Sp. p. 3474; Gaz. vol. 153; p. 617.
Antiskidding device. W. Reagan. No. 968,416; Aug. 23; Sp. p. 5487; Gaz. vol. 157; p. 946.
Antiskidding device. A. Pfluegner. No. 969,116; Aug. 30; Sp. p. 6968; Gaz. vol. 157; p. 1212.
Antiskidding device. F. A. Ruff. No. 973,976; Oct. 25; Sp. p. 5358; Gaz. vol. 159; p. 932.
Antiskidding-device coupling. P. C. Traver. No. 969,426; Sept. 6; Sp. p. 587; Gaz. vol. 158; p. 94.
Antiskidding device, Emergency. F. A. Ruff. No. 971,312; Sept. 27; Sp. p. 4606; Gaz. vol. 158; p. 806.
Antiskidding device for automobiles. A. Hormel. No. 972,766; Oct. 11; Sp. p. 2723; Gaz. vol. 159; p. 463.
Antiskidding device for tires. J. E. Redmond. No. 974,825; Nov. 8; Sp. p. 1683; Gaz. vol. 160; p. 282.
Antiskidding device for wheel-tires. P. C. Traver. No. 969,425; Sept. 6; Sp. p. 585; Gaz. vol. 158; p. 93.
Antiskidding protector. G. W. Bierer. No. 969,744; Sept. 6; Sp. p. 1274; Gaz. vol. 158; p. 204.
Anvil. G. W. Summers. No. 953,305; Mar. 29; Sp. p. 5858; Gaz. vol. 152; p. 1059.
Anvil attachment. A. R. Everett. No. 950,903; Mar. 1; Sp. p. 928; Gaz. vol. 152; p. 148.
Anvil attachment. A. H. De Haas. No. 961,109; June 14; Sp. p. 1757; Gaz. vol. 155; p. 319.
Anvil attachment. E. Spreen. No. 962,478; June 28; Sp. p. 4727; Gaz. vol. 155; p. 833.
Anvil, Bench-. A. A. Bailley. No. 956,023; Apr. 26; Sp. p. 5048; Gaz. vol. 153; p. 892.
Anvil for steam-hammers. A. Kossel. No. 945,786; Jan. 11; Sp. p. 1728; Gaz. vol. 150; p. 290.
Anvil-supporting base. E. Spreen. No. 962,477; June 28; Sp. p. 4726; Gaz. vol. 155; p. 833.
Anvil with vise attachment. J. McKenney. No. 979,079; Dec. 20; Sp. p. 3589; Gaz. vol. 161; p. 626.
Anvils, Calk-welding attachment for. A. F. Beck. No. 956,927; May 3; Sp. p. 927; Gaz. vol. 154; p. 147.
Apparel apparatus. E. Kasralowicz. No. 967,131; Aug. 9; Sp. p. 2800; Gaz. vol. 157; p. 460.
Apparel-hanger. C. A. Vanderburg. No. 948,940; Feb. 8; Sp. p. 2430; Gaz. vol. 151; p. 414.
Apparel, Means for supporting wearing-. H. P. Cole. No. 946,656; Jan. 18; Sp. p. 3673; Gaz. vol. 150; p. 615.
Apparel, Mechanical clasp particularly adapted for wearing-. C. M. Friend. No. 948,048; Feb. 1; Sp. p. 563; Gaz. vol. 151; p. 90.
Apparel, Ornamenting wearing-. J. Luner. No. 971,388; Sept. 27; Sp. p. 4758; Gaz. vol. 158; p. 831.
Apple cutter and corer. B. Fullmer and A. H. Powell. No. 975,410; Nov. 15; Sp. p. 2985; Gaz. vol. 160; p. 508.
Apple-grading machine. G. L. Bedker. No. 977,365; Nov. 29; Sp. p. 7247; Gaz. vol. 160; p. 1230.
Applicator. A. D. Foster. No. 972,686; Oct. 11; Sp. p. 2554; Gaz. vol. 159; p. 435.
Apron and overalls, Combination. J. E. Richards. No. 945,345; Jan. 4; Sp. p. 746; Gaz. vol. 150; p. 114.
Apron, Blacksmith's. E. C. Beckmann. No. 952,179; Mar. 15; Sp. p. 3461; Gaz. vol. 152; p. 623.
Aprons, Automatic centering device for endless. P. L. Brockardt. No. 977,702; Dec. 6; Sp. p. 643; Gaz. vol. 161; p. 98.
Aquarium. J. F. Wohlfahrt. No. 976,242; Nov. 22; Sp. p. 4777; Gaz. vol. 160; p. 818.
Aqueous solutions, Continuous electrolysis of. A. Pietzsch and E. Steinbuch. No. 978,934; Dec. 20; Sp. p. 3246; Gaz. vol. 161; p. 576.

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Arch, bridge, or viaduct, Reinforced. R. A. Cummings. No. 978,361; Dec. 13; Sp. p. 2039; Gaz. vol. 161; p. 356.
Arch-plate, Removable water-holding. C. H. Feldmann. No. 957,856; May 10; Sp. p. 2866; Gaz. vol. 154; p. 491.
Arch, Sectional. W. Gossett. No. 954,410; Apr. 5; Sp. p. 1512; Gaz. vol. 153; p. 251.
Arch-support. A. M. Smith. No. 961,174; June 14; Sp. p. 1885; Gaz. vol. 155; p. 342.
Arch-support. W. R. Lee. No. 976,888; Nov. 29; Sp. p. 6182; Gaz. vol. 160; p. 1064.
Arch-support, Disjointable and adjustable. W. Schmidt. No. 949,552; Feb. 15; Sp. p. 3714; Gaz. vol. 151; p. 646.
Arch-supporter. J. C. Shepard. No. 977,684; Dec. 6; Sp. p. 598; Gaz. vol. 161; p. 91.
Arches, Skewback for hollow-tile. H. L. Hinton. No. 971,749; Oct. 4; Sp. p. 505; Gaz. vol. 159; p. 88.
Arm and lever. S. E. Davis. No. 959,475; May 31; Sp. p. 6604; Gaz. vol. 154; p. 1126.
Armature-casing. B. Whelchel. No. 956,461; Apr. 26; Sp. p. 6015; Gaz. vol. 153; p. 1043.
Armature for electric generators. H. Tideman. No. 949,784; Feb. 22; Sp. p. 4193; Gaz. vol. 151; p. 757.
Armature-testing device. L. H. Seyranian. No. 974,712; Nov. 1; Sp. p. 1443; Gaz. vol. 160; p. 222.
Armature-winding. F. Conrad. No. 954,614; Apr. 12; Sp. p. 1961; Gaz. vol. 153; p. 348.
Armature-windings, Forming coils for. J. Burke. No. 979,375; Dec. 20; Sp. p. 4224; Gaz. vol. 161; p. 728.
Armband-threading and lever-buckle slide. E. N. Humphrey. No. 965,301; July 26; Sp. p. 4965; Gaz. vol. 156; p. 855.
Armor fabric. J. A. Zeman. No. 952,859; Mar. 22; Sp. p. 4911; Gaz. vol. 152; p. 884.
Armor for battleships. E. P. Watson, Sr. No. 948,196; Feb. 1; Sp. p. 847; Gaz. vol. 151; p. 139.
Armor-plate. S. O. Cowper-Coles. No. 952,877; Mar. 22; Sp. p. 4943; Gaz. vol. 152; p. 890.
Armor-plate. W. S. Simpson. No. 967,146; Aug. 9; Sp. p. 2833; Gaz. vol. 157; p. 464.
Armor-plate and other article of steel. F. Giolitti. No. 946,428; Jan. 11; Sp. p. 3200; Gaz. vol. 150; p. 515.
Armor-plates for protecting ships, &c., Manufacturing. F. Giolitti. No. 947,486; Jan. 25; Sp. p. 5557; Gaz. vol. 150; p. 923.
Armor waistcoat. A. Sibold. No. 956,203; Apr. 26; Sp. p. 5460; Gaz. vol. 153; p. 956.
Arrester. D. C. McCan. No. 978,183; Dec. 13; Sp. p. 1669; Gaz. vol. 161; p. 293.
Article and bag securer. E. R. Jones. No. 978,594; Dec. 13; Sp. p. 2563; Gaz. vol. 161; p. 437.
Article-holder. R. L. Pate. No. 958,526; May 17; Sp. p. 4614; Gaz. vol. 154; p. 757.
Article-holder, Pocket. G. B. Peters. No. 968,972; Aug. 30; Sp. p. 6668; Gaz. vol. 157; p. 1161.
Article of manufacture. G. Pistor and P. Rakowicz. No. 965,485; July 26; Sp. p. 5363; Gaz. vol. 156; p. 918.
Artist's sketch-box. R. F. Maynard. No. 961,629; June 14; Sp. p. 2872; Gaz. vol. 155; p. 496.
Artist's sketching outfit. W. P. Silva. No. 957,805; May 10; Sp. p. 2767; Gaz. vol. 154; p. 474.
Asbestos mold. G. H. Brabrook. No. 972,990; Oct. 18; Sp. p. 3270; Gaz. vol. 159; p. 569.
Ash-box. E. F. Jones and C. A. Barnes. No. 971,845; Oct. 4; Sp. p. 702; Gaz. vol. 159; p. 123.
Ash can or barrel. M. Froesé. No. 973,029; Oct. 18; Sp. p. 3363; Gaz. vol. 159; p. 582.
Ash-drag. F. Girtanner. No. 968,844; Aug. 30; Sp. p. 6415; Gaz. vol. 157; p. 1118.
Ash-hoist. D. Larson. No. 979,519; Dec. 27; Sp. p. 4530; Gaz. vol. 161; p. 799.
Ash-hoisting apparatus, Sidewalk. A. Sundh. No. 955,922; Apr. 26; Sp. p. 4839; Gaz. vol. 153; p. 856.
Ash-lift. A. Sundh. No. 950,250; Feb. 22; Sp. p. 5250; Gaz. vol. 151; p. 921.
Ash-lifter. A. O. Gangawere and O. G. Romig. No. 955,860; Apr. 26; Sp. p. 4699; Gaz. vol. 153; p. 835.
Ash-pan. A. Singelyn. No. 950,964; Mar. 1; Sp. p. 1054; Gaz. vol. 152; p. 168.
Ash-pan. H. A. Hoke. No. 954,100; Apr. 5; Sp. p. 851; Gaz. vol. 153; p. 147.
Ash-pan. T. R. Higdon. No. 960,174; May 31; Sp. p. 8109; Gaz. vol. 154; p. 1364.
Ash-pan. H. S. Lloyd. No. 967,944; Aug. 23; Sp. p. 4456; Gaz. vol. 157; p. 784.
Ash-pan and blower, Combined. T. L. Gabbard. No. 947,900; Feb. 1; Sp. p. 262; Gaz. vol. 151; p. 43.
Ash-pan discharge-controller. J. G. Talmage. No. 978,074; Dec. 6; Sp. p. 1402; Gaz. vol. 161; p. 226.
Ash-pan, Dumping. T. J. Hudson. No. 955,072; Apr. 12; Sp. p. 2979; Gaz. vol. 153; p. 505.
Ash-pan, Sliding-door. H. Alaman and W. M. Lindley. No. 953,573; Mar. 29; Sp. p. 6450; Gaz. vol. 152; p. 1153.
Ash-receiving device. W. M. Sharp. No. 946,469; Jan. 11; Sp. p. 3296; Gaz. vol. 150; p. 529.
Ash-receptacle. D. T. Bjork and H. S. Willis. No. 947,785; Feb. 1; Sp. p. 17; Gaz. vol. 151; p. 5.
Ash-receptacle. O. Partenheimer. No. 949,157; Feb. 15; Sp. p. 2899; Gaz. vol. 151; p. 513.
Ash-screen. B. A. Malone. No. 948,591; Feb. 8; Sp. p. 1718; Gaz. vol. 151; p. 298.
Ash-shovel. R. Brownson. No. 960,266; June 7; Sp. p. 58; Gaz. vol. 155; p. 13.
Ash-sprinkler. B. Block. No. 945,152; Jan. 4; Sp. p. 297; Gaz. vol. 150; p. 51.
Ash-tray for keyed instruments. M. C. Herbst. No. 967,149; Aug. 9; Sp. p. 2839; Gaz. vol. 157; p. 465.
Ashes and other materials, Apparatus for handling. W. W. Darley. No. 968,542; Aug. 30; Sp. p. 5768; Gaz. vol. 157; p. 1015.
Asparagus and kindred plants, Treating. E. C. Kline. No. 958,932; May 24; Sp. p. 5490; Gaz. vol. 154; p. 921.
Asparagus-knife. R. F. Bresnahan. No. 955,050; Apr. 12; Sp. p. 2944; Gaz. vol. 153; p. 499.
Asphalt expansion-joint. C. S. McGinn. No. 950,541; Mar. 1; Sp. p. 166; Gaz. vol. 152; p. 28.
Asphalt-paving plant. C. I. Williams. No. 978,973; Dec. 20; Sp. p. 3359; Gaz. vol. 161; p. 590.
Asphaltum to make varnish, Treating. D. T. Day. No. 967,337; Aug. 16; Sp. p. 3217; Gaz. vol. 157; p. 557.
Aspirator. I. Steiner. No. 951,749; Mar. 8; Sp. p. 2603; Gaz. vol. 152; p. 450.
Assembling-machine feed mechanism. G. Kirkegaard. No. 967,644; Aug. 16; Sp. p. 3845; Gaz. vol. 157; p. 660.
Astronomical apparatus. G. J. Baker. No. 949,348; Feb. 15; Sp. p. 3300; Gaz. vol. 151; p. 578.
Asylum-lock. A. Arens. No. 962,875; June 28; Sp. p. 5558; Gaz. vol. 155; p. 972.
Athletic grounds, Cover for. J. L. O'Donnell. No. 974,091; Oct. 25; Sp. p. 5604; Gaz. vol. 159; p. 971.
Atomizer. F. C. Dorment. No. 945,380; Jan. 4; Sp. p. 814; Gaz. vol. 150; p. 126.
Atomizer. J. R. Ballentine. No. 955,937; Apr. 26; Sp. p. 4868; Gaz. vol. 153; p. 861.
Atomizer. J. R. Ballentine. No. 955,938; Apr. 26; Sp. p. 4870; Gaz. vol. 153; p. 862.
Atomizer. F. C. Dorment. No. 958,697; May 17; Sp. p. 4942; Gaz. vol. 154; p. 812.
Atomizer. M. von Trautmann. No. 970,576; Sept. 20; Sp. p. 3056; Gaz. vol. 158; p. 532.
Atomizer and the like. O. D. Lucas. No. 957,976; May 17; Sp. p. 3206; Gaz. vol. 154; p. 565.
Atomizer, Pocket-. F. C. Dorment. No. 956,052; Apr. 26; Sp. p. 5111; Gaz. vol. 153; p. 902.
Atomizer, Pocket-. R. F. Richards. No. 963,179; July 5; Sp. p. 385; Gaz. vol. 156; p. 55.
Atomizer-pressures, Device for alternating. N. McCarty. No. 966,581; Aug. 9; Sp. p. 1610; Gaz. vol. 157; p. 274.
Attrition-mill. E. P. Alsted. No. 962,807; June 28; Sp. p. 5426; Gaz. vol. 155; p. 947.
Audiphone-receiver. C. E. Williams. No. 945,429; Jan. 4; Sp. p. 917; Gaz. vol. 150; p. 143.
Audiphone-transmitter, Portable. C. E. Williams. No. 945,430; Jan. 4; Sp. p. 919; Gaz. vol. 150; p. 143.
Auditor's combination-report. N. F. Garbo. No. 965,703; July 26; Sp. p. 5857; Gaz. vol. 156; p. 995.
Auger. A. H. Howland. No. 955,803; Apr. 19; Sp. p. 4548; Gaz. vol. 153; p. 786.
Auger. J. Frahlich. No. 972,611; Oct. 11; Sp. p. 2403; Gaz. vol. 159; p. 410.
Auger apparatus. M. E. Miller. No. 972,392; Oct. 11; Sp. p. 1899; Gaz. vol. 159; p. 333.
Auger-bit. J. T. Pugh. No. 967,055; Aug. 9; Sp. p. 2638; Gaz. vol. 157; p. 433.
Auger-deflector. G. H. Miller. No. 973,537; Oct. 25; Sp. p. 4460; Gaz. vol. 159; p. 779.
Auger, Earth-. M. Hardsocg. No. 968,471; Aug. 23; Sp. p. 5593; Gaz. vol. 157; p. 965.
Auger, Earth-. W. G. Rogers. No. 975,163; Nov. 8; Sp. p. 2463; Gaz. vol. 160; p. 399.
Auger, Earth-. F. H. Chase. No. 978,559; Dec. 13; Sp. p. 2486; Gaz. vol. 161; p. 424.
Auger, Expansion-. J. W. Caldwell. No. 945,016; Jan. 4; Sp. p. 10; Gaz. vol. 150; p. 5.
Auger-handle. G. W. Foorman. No. 945,509; Jan. 4; Sp. p. 1090; Gaz. vol. 150; p. 168.
Auger, Post-hole. D. W. Looker. No. 946,060; Jan. 11; Sp. p. 2323; Gaz. vol. 150; p. 386.
Auger, Post-hole. G. M. Fenn. No. 971,880; Oct. 4; Sp. p. 782; Gaz. vol. 159; p. 136.
Auger, Post-hole. R. T. Jenney. No. 977,877; Dec. 6; Sp. p. 995; Gaz. vol. 161; p. 156.
Auto-organ. J. R. England. No. 977,084; Nov. 29; Sp. p. 6641; Gaz. vol. 160; p. 1132.
Auto-wheel. A. L. Blalock. No. 969,593; Sept. 6; Sp. p. 956; Gaz. vol. 158; p. 151.
Autocar-wheel. R. Kronenberg. No. 974,081; Oct. 25; Sp. p. 5584; Gaz. vol. 159; p. 968.
Autographic register. A. Krauth. No. 947,920; Feb. 1; Sp. p. 293; Gaz. vol. 151; p. 49.
Autographic register. T. F. Schirmer and M. C. Stern. No. 949,006; Feb. 15; Sp. p. 2584; Gaz. vol. 151; p. 464.
Autographic register. H. Konerman. No. 957,567; May 10; Sp. p. 2278; Gaz. vol. 154; p. 394.
Autographic register. P. Hano. No. 965,708; July 26; Sp. p. 5867; Gaz. vol. 156; p. 996.
Autographic registers and type-writers, Means for combining. E. J. Barker. No. 970,780; Sept. 20; Sp. p. 3525; Gaz. vol. 158; p. 603.
Autoharp and like instrument. W. S. Holloway. No. 975,865; Nov. 15; Sp. p. 3942; Gaz. vol. 160; p. 664.

Automatic and independent brake, Combined. C. P. Cass. No. 979,929; Dec. 27; Sp. p. 5434; Gaz. vol. 161; p. 939.
Automatic alarm. E. G. Halvorsen. No. 973,425; Oct. 18; Sp. p. 4217; Gaz. vol. 159; p. 718.
Automatic alarm and gas-pressure cut-off device. O. C. Moon. No. 960,569; June 7; Sp. p. 677; Gaz. vol. 155; p. 111.
Automatic brake. C. L. Taylor. No. 971,937; Oct. 4; Sp. p. 931; Gaz. vol. 159; p. 158.
Automatic carrier. M. H. Cawley. No. 977,929; Dec. 6; Sp. p. 1101; Gaz. vol. 161; p. 175.
Automatic cleaner and polisher. F. H. Farrington. No. 949,727; Feb. 15; Sp. p. 4048; Gaz. vol. 151; p. 703.
Automatic coupling. O. Oehring. No. 977,673; Dec. 6; Sp. p. 571; Gaz. vol. 161; p. 87.
Automatic-discharge lubricator. W. E. Sidney. No. 975,646; Nov. 15; Sp. p. 3485; Gaz. vol. 160; p. 591.
Automatic elevator. A. L. Gardner. No. 964,099; July 12; Sp. p. 2364; Gaz. vol. 156; p. 388.
Automatic elevator, Mechanically-controlled. A. Sundh. No. 959,645; May 31; Sp. p. 6953; Gaz. vol. 154; p. 1185.
Automatic gate. C. A. Hahn. No. 968,846; Aug. 30; Sp. p. 6420; Gaz. vol. 157; p. 1119.
Automatic lubricator. F. F. Ellis. No. 956,694; May 3; Sp. p. 428; Gaz. vol. 154; p. 68.
Automatic lubricator. J. W. Shafer. No. 959,267; May 24; Sp. p. 6170; Gaz. vol. 154; p. 1031.
Automatic lubricator. W. Pfeifer. No. 960,696; June 7; Sp. p. 933; Gaz. vol. 155; p. 155.
Automatic lubricator. F. Ringrose. No. 976,922; Nov. 29; Sp. p. 6264; Gaz. vol. 160; p. 1076.
Automatic safety-burner. J. L. Miller. No. 963,457; July 5; Sp. p. 992; Gaz. vol. 156; p. 149.
Automatic sprinkler. G. I. Rockwood. No. 951,339; Mar. 8; Sp. p. 1781; Gaz. vol. 152; p. 313.
Automatic switch. C. D. Rolley. No. 950,826; Mar. 1, Sp. p. 786; Gaz. vol. 152; p. 125.
Automatic switch. C. W. Kaufman. No. 961,413; June 14; Sp. p. 2399; Gaz. vol. 155; p. 424.
Automatic switch. J. M. Rhett. No. 962,388; June 21; Sp. p. 4498; Gaz. vol. 155; p. 776.
Automatic switch. C. R. Austin. No. 964,836; July 19; Sp. p. 4021; Gaz. vol. 156; p. 669.
Automatic switch. O. B. Snow. No. 967,256; Aug. 16; Sp. p. 3056; Gaz. vol. 157; p. 529.
Automatic time-switch. H. C. Calvin. No. 970,882; Sept. 20; Sp. p. 3729; Gaz. vol. 158; p. 638.
Automatic ventilator. C. E. Reitz. No. 961,016; June 7; Sp. p. 1560; Gaz. vol. 155; p. 262.
Automatically-locking lock for doors and the like. A. Leistler. No. 970,628; Sept. 20; Sp. p. 3199; Gaz. vol. 158; p. 550.
Automatically-operated gate. J. T. Walston. No. 979,613; Dec. 27; Sp. p. 4747; Gaz. vol. 161; p. 833.
Automobile. C. Berg. No. 945,365; Jan. 4; Sp. p. 786; Gaz. vol. 150; p. 121.
Automobile. T. A. Edison. No. 947,806; Feb. 1; Sp. p. 53; Gaz. vol. 151; p. 11.
Automobile. J. E. Gable. No. 949,422; Feb. 15; Sp. p. 3461; Gaz. vol. 151; p. 604.
Automobile. F. P. Nehrbas. No. 950,949; Mar. 1; Sp. p. 1021; Gaz. vol. 152; p. 163.
Automobile. C. E. Cox. No. 962,626; June 28; Sp. p. 5054; Gaz. vol. 155; p. 883.
Automobile. J. B. Bartholomew. No. 973,251; Oct. 18; Sp. p. 3845; Gaz. vol. 159; p. 658.
Automobile antiskidding device. R. A. Moore. No. 967,808; Aug. 16; Sp. p. 4170; Gaz. vol. 157; p. 715.
Automobile attachment. S. H. Martin. No. 971,768; Oct. 4; Sp. p. 539; Gaz. vol. 159; p. 94.
Automobile attachment. O. F. Neff. No. 972,020; Oct. 4; Sp. p. 1121; Gaz. vol. 159; p. 188.
Automobile attachment. G. H. Chandlee. No. 973,856; Oct. 25; Sp. p. 5120; Gaz. vol. 159; p. 889.
Automobile auxiliary spring. C. L. Thomas. No. 966,621; Aug. 9; Sp. p. 1689; Gaz. vol. 157; p. 288.
Automobile baggage-carrier. P. Evans. No. 976,561; Nov. 22; Sp. p. 5488; Gaz. vol. 160; p. 928.
Automobile-body, Convertible. R. E. Olds. No. 952,575; Mar. 22; Sp. p. 4293; Gaz. vol. 152; p. 786.
Automobile-brake. J. J. Stawartz. No. 960,426; June 7; Sp. p. 379; Gaz. vol. 155; p. 64.
Automobile brake mechanism. J. G. Hopper. No. 977,631; Dec. 6; Sp. p. 479; Gaz. vol. 161; p. 73.
Automobile-buffer. A. L. McGregor. No. 958,420; May 17; Sp. p. 4404; Gaz. vol. 154; p. 720.
Automobile-buffer. J. Turner and P. P. Crabill. No. 974,212; Nov. 1; Sp. p. 247; Gaz. vol. 160; p. 41.
Automobile clutch and brake controlling mechanism. H. M. Kugler and W. T. Clark. No. 974,281; Nov. 1; Sp. p. 454; Gaz. vol. 160; p. 67.
Automobile-controller lever-lock. F. C. Miller. No. 962,448; June 28; Sp. p. 4663; Gaz. vol. 155; p. 823.
Automobile controlling means. H. E. Coffin. No. 951,984; Mar. 15; Sp. p. 3102; Gaz. vol. 152; p. 559.
Automobile-cooler. A. S. Hyde and C. Gordon. No. 965,189; July 26; Sp. p. 4721; Gaz. vol. 156; p. 817.
Automobile-covering. A. Schreiber and O. Meister. No. 958,183; May 17; Sp. p. 3777; Gaz. vol. 154; p. 638.
Automobile cranking mechanism. J. B. Castle. No. 974,235; Nov. 1; Sp. p. 344; Gaz. vol. 160; p. 49.
Automobile driving and supporting wheel. P. H. Breed. No. 980,055; Dec. 27; Sp. p. 5708; Gaz. vol. 161; p. 982.
Automobile driving-gear. P. J. Rivers. No. 957,626; May 10; Sp. p. 2393; Gaz. vol. 154; p. 414.
Automobile driving-gear. C. C. Bettenhausen. No. 974,773; Nov. 8; Sp. p. 1575; Gaz. vol. 160; p. 265.
Automobile driving-gear. J. A. Scharf. No. 975,290; Nov. 8; Sp. p. 2728; Gaz. vol. 160; p. 442.
Automobile driving-shafts, Shock-absorber for. C. A. Benoist. No. 946,953; Jan. 18; Sp. p. 4362; Gaz. vol. 150; p. 717.
Automobile dust-pan. W. H. Mullins. No. 971,550; Oct. 4; Sp. p. 85; Gaz. vol. 159; p. 16.
Automobile emergency-brake. M. A. Wagner. No. 952,851; Mar. 22; Sp. p. 4898; Gaz. vol. 152; p. 882.
Automobile emergency-brake, Automatic. E. Eiselt. No. 979,938; Dec. 27; Sp. p. 5453; Gaz. vol. 161; p. 942.
Automobile engine-hood. A. Winton and H. B. Anderson. No. 960,132; May 31; Sp. p. 8035; Gaz. vol. 154; p. 1350.
Automobile engine-starter. H. E. Wilson. No. 978,417; Dec. 13; Sp. p. 2164; Gaz. vol. 161; p. 376.
Automobile engine-starting device. A. M. Walstrom. No. 958,985; May 24; Sp. p. 5587; Gaz. vol. 154; p. 539.
Automobile engine-starting device. E. F. Russell and E. E. Lavoie. No. 978,939; Dec. 20; Sp. p. 3261; Gaz. vol. 161; p. 578.
Automobile-fender. J. R. Hickey. No. 946,777; Jan. 18; Sp. p. 3945; Gaz. vol. 150; p. 656.
Automobile-fender. J. E. Bennett. No. 951,588; Mar. 8; Sp. p. 2282; Gaz. vol. 152; p. 396.
Automobile-fender. D. J. Welton. No. 955,624; Apr. 19; Sp. p. 4164; Gaz. vol. 153; p. 725.
Automobile-fender. R. Jardine. No. 958,132; May 17; Sp. p. 3676; Gaz. vol. 154; p. 620.
Automobile-fender. F. Meattauer. No. 963,306; July 5; Sp. p. 690; Gaz. vol. 156; p. 98.
Automobile-fender. J. P. Randerson. No. 968,800; Aug. 30; Sp. p. 6336; Gaz. vol. 157; p. 1104.
Automobile-fender. G. E. Coney. No. 970,309; Sept. 13; Sp. p. 2496; Gaz. vol. 158; p. 420.
Automobile-fender. Y. M. Créchriou. No. 970,892; Sept. 20; Sp. p. 3757; Gaz. vol. 158; p. 641.
Automobile fender and buffer. A. Camarda. No. 947,674; Jan. 25; Sp. p. 5937; Gaz. vol. 150; p. 987.
Automobile gasolene-tank. R. Hayes. No. 976,460; Nov. 22; Sp. p. 5262; Gaz. vol. 160; p. 893.
Automobile gear case and housing. C. W. Blackman. No. 961,097; June 14; Sp. p. 1736; Gaz. vol. 155; p. 315.
Automobile, Gravity-. A. G. Neville. No. 958,160; May 17; Sp. p. 3732; Gaz. vol. 154; p. 631.
Automobile headlight-controller. E. A. Adams. No. 960,763; June 7; Sp. p. 1065; Gaz. vol. 155; p. 178.
Automobile heating appliance. C. A. Prescott. No. 957,253; May 10; Sp. p. 1630; Gaz. vol. 154; p. 288.
Automobile-hood. J. P. Gordon. No. 975,128; Nov. 8; Sp. p. 2387; Gaz. vol. 160; p. 387.
Automobile-horn. L. B. Buchanan. No. 971,169; Sept. 27; Sp. p. 4327; Gaz. vol. 158; p. 759.
Automobile-horn. A. V. Piskorski. No. 971,635; Oct. 4; Sp. p. 265; Gaz. vol. 159; p. 47.
Automobile-jack. E. I. Spencer. No. 953,157; Mar. 29; Sp. p. 5549; Gaz. vol. 152; p. 1012.
Automobile lamp-operating mechanism, Automatic. J. H. Butterfield. No. 980,062; Dec. 27; Sp. p. 5718; Gaz. vol. 161; p. 984.
Automobile lamps and number-plates, Support for. H. J. Gernet. No. 954,387; Apr. 5; Sp. p. 1464; Gaz. vol. 153; p. 244.
Automobile license-tag holder. E. E. Hancock. No. 959,735; May 31; Sp. p. 7149; Gaz. vol. 154; p. 1213.
Automobile pneumatic system. R. S. Wallace. No. 975,588; Nov. 15; Sp. p. 3366; Gaz. vol. 160; p. 571.
Automobile pump-operating mechanism. L. A. Morgan. No. 967,654; Aug. 16; Sp. p. 3862; Gaz. vol. 157; p. 663.
Automobile radiating mechanism. F. M. Keeton. No. 969,107; Aug. 30; Sp. p. 6951; Gaz. vol. 157; p. 1210.
Automobile-radiator. D. Landau and A. Golden. No. 947,496; Jan. 25; Sp. p. 5580; Gaz. vol. 150; p. 927.
Automobile-radiator. A. Schepper and E. Covert. No. 967,248; Aug. 16; Sp. p. 3042; Gaz. vol. 157; p. 526.
Automobile-radiator. C. G. Boeck. No. 970,297; Sept. 13; Sp. p. 2472; Gaz. vol. 158; p. 416.
Automobile-radiator. F. G. Garrison. No. 971,127; Sept. 27; Sp. p. 4221; Gaz. vol. 158; p. 746.
Automobile-radiator. W. Dietz. No. 974,777; Nov. 8; Sp. p. 1587; Gaz. vol. 160; p. 267.
Automobile-radiator. J. Fleischman. No. 975,343; Nov. 8; Sp. p. 2845; Gaz. vol. 160; p. 460.
Automobile-radiator. H. Klein and W. Reiter. No. 975,872; Nov. 15; Sp. p. 3954; Gaz. vol. 160; p. 666.
Automobile-radiator. G. Enrico. No. 979,137; Dec. 20; Sp. p. 3749; Gaz. vol. 161; p. 649.
Automobile-radiators, Filler for. E. L. Thomas. No. 957,814; May 10; Sp. p. 2782; Gaz. vol. 154; p. 477.
Automobile-rim. J. Hamilton. No. 957,672; May 10; Sp. p. 2497; Gaz. vol. 154; p. 431.
Automobile-runner. T. Milldown. No. 975,267; Nov. 8; Sp. p. 2686; Gaz. vol. 160; p. 434.
Automobile running-board. H. E. Coffin. No. 967,170; Aug. 16; Sp. p. 2887; Gaz. vol. 157; p. 500.

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Automobile running-gear. J. Eckhard. No. 965,994; Aug. 2; Sp. p. 314; Gaz. vol. 157; p. 52.
Automobile safety attachment. T. B. Jeffery. No. 964,427; July 12; Sp. p. 3008; Gaz. vol. 156; p. 496.
Automobile safety device. R. B. Love. No. 947,112; Jan. 18; Sp. p. 4659; Gaz. vol. 150; p. 769.
Automobile shock-absorber. C. A. Petersen. No. 970,390; Sept. 13; Sp. p. 2648; Gaz. vol. 158; p. 447.
Automobile-sign. F. Coryell. No. 949,996; Feb. 22; Sp. p. 4714; Gaz. vol. 151; p. 833.
Automobile-signal. J. T. Johnson. No. 949,433; Feb. 15; Sp. p. 3482; Gaz. vol. 151; p. 608.
Automobile signaling device. W. G. Nash. No. 977,215; Nov. 29; Sp. p. 6935; Gaz. vol. 160; p. 1179.
Automobile sled. O. A. Arnet. No. 970,008; Sept. 13; Sp. p. 1873; Gaz. vol. 158; p. 319.
Automobile sled attachment. W. E. Ryan. No. 970,354; Sept. 13; Sp. p. 2575; Gaz. vol. 158; p. 435.
Automobile-starter. C. A. Smith. No. 951,707; Mar. 8; Sp. p. 2505; Gaz. vol. 152; p. 435.
Automobile-starter. C. H. Wolcott. No. 953,885; Apr. 5; Sp. p. 398; Gaz. vol. 153; p. 72.
Automobile starting-cranks, Locking device for. J. Van Tekelenburg. No. 947,706; Jan. 25; Sp. p. 5992; Gaz. vol. 150; p. 998.
Automobile, Steam-. R. H. White. No. 971,810; Oct. 4; Sp. p. 624; Gaz. vol. 159; p. 109.
Automobile steam-generating apparatus. A. G. Davis. No. 974,129; Nov. 1; Sp. p. 47; Gaz. vol. 160; p. 11.
Automobile steering and motor-controlling mechanism. C. Schmidt. No. 946,465; Jan. 11; Sp. p. 3290; Gaz. vol. 150; p. 528.
Automobile steering-gear. G. Laning. No. 953,698; Apr. 5; Sp. p. 37; Gaz. vol. 153; p. 9.
Automobile steering mechanism. R. Symmonds, Jr. No. 948,800; Feb. 8; Sp. p. 2172; Gaz. vol. 151; p. 369.
Automobile steering mechanism. C. B. Wattles. No. 959,978; May 31; Sp. p. 7700; Gaz. vol. 154; p. 1297.
Automobile steering-wheel. R. E. Bowers. No. 959,298; May 24; Sp. p. 6234; Gaz. vol. 154; p. 1043.
Automobile steering-wheel. E. K. Hardy. No. 960,907; June 7; Sp. p. 1339; Gaz. vol. 155; p. 225.
Automobile steering-wheels, Locking device for. D. J. Elliott and W. W. Reilly. No. 972,605; Oct. 11; Sp. p. 2392; Gaz. vol. 159; p. 408.
Automobile throttle mechanism. G. H. Taber. No. 947,705; Jan. 25; Sp. p. 5990; Gaz. vol. 150; p. 997.
Automobile tilting body. T. B. Jeffery. No. 976,572; Nov. 22; Sp. p. 5512; Gaz. vol. 160; p. 932.
Automobile-timer. W. S. Jones. No. 974,069; Oct. 25; Sp. p. 5565; Gaz. vol. 159; p. 964.
Automobile-tonneaus, Detachable and knockdown folding seat for. A. Winton and H. B. Anderson. No. 972,046; Oct. 4; Sp. p. 1170; Gaz. vol. 159; p. 197.
Automobile-tool. F. Knight. No. 975,694; Nov. 15; Sp. p. 3598; Gaz. vol. 160; p. 606.
Automobile tool-box. F. Hengel and J. Addis. No. 969,620; Sept. 6; Sp. p. 1004; Gaz. vol. 158; p. 160.
Automobile traction device. C. F. Zillmer and G. A. Strohhaecker. No. 967,100; Aug. 9; Sp. p. 2721; Gaz. vol. 157; p. 448.
Automobile transfer turn-table. M. A. Baker. No. 957,536; May 10; Sp. p. 2224; Gaz. vol. 154; p. 385.
Automobile transmission-gearing. W. C. Falk. No. 958,242; May 17; Sp. p. 3890; Gaz. vol. 154; p. 656.
Automobile turn-table bearing and making the same. W. A. E. Noble. No. 958,162; May 17; Sp. p. 3738; Gaz. vol. 154; p. 632.
Automobile turn-table construction. W. A. E. Noble and S. Jay. No. 958,161; May 17; Sp. p. 3737; Gaz. vol. 154; p. 631.
Automobile-wheel. T. J. Sparks. No. 954,144; Apr. 5; Sp. p. 931; Gaz. vol. 153; p. 161.
Automobile-wheel. W. Tischbein. No. 956,611; May 3; Sp. p. 226; Gaz. vol. 154; p. 39.
Automobile-wheel. C. Rasmussen. No. 965,539; July 26; Sp. p. 5508; Gaz. vol. 156; p. 938.
Automobile-wheel. F. D. Baker. No. 969,024; Aug. 30; Sp. p. 6775; Gaz. vol. 157; p. 1180.
Automobile-wheel. J. M. Gilbert. No. 979,468; Dec. 27; Sp. p. 4425; Gaz. vol. 161; p. 782.
Automobile-wheels, Armor for. V. L. Békefi. No. 972,322; Oct. 11; Sp. p. 1754; Gaz. vol. 159; p. 308.
Automobile wind-screen. E. W. Kingsley. No. 976,373; Nov. 22; Sp. p. 5070; Gaz. vol. 160; p. 861.
Automobile wind-shield. G. Huillier. No. 954,101; Apr. 5; Sp. p. 852; Gaz. vol. 153; p. 147.
Automobile wind-shield. J. N. Haus. No. 956,964; May 3; Sp. p. 1018; Gaz. vol. 154; p. 159.
Automobile wind-shield. F. W. Aurig. No. 966,785; Aug. 9; Sp. p. 2067; Gaz. vol. 157; p. 344.
Automobile wind-shield, Sectional. A. L. Woodward. No. 959,188; May 24; Sp. p. 6017; Gaz. vol. 154; p. 1005.
Automobiles and like machines, Starting device for. R. D. Stryker. No. 973,232; Oct. 18; Sp. p. 3815; Gaz. vol. 159; p. 652.
Automobiles and similar vehicles, Travel-recorder for. C. A. Miller. No. 963,055; July 5; Sp. p. 54; Gaz. vol. 156; p. 11.
Automobiles and the like, Mouthpiece of horns for. L. A. Bretonneau. No. 945,371; Jan. 4; Sp. p. 798; Gaz. vol. 150; p. 123.
Automobiles, Combined carbureter-protector and electric cut-out for. W. O. Nelson. No. 976,487; Nov. 22; Sp. p. 5326; Gaz. vol. 160; p. 903.
Automobiles, Demountable rim for. C. Johnson. No. 965,715; July 26; Sp. p. 5879; Gaz. vol. 156; p. 999.
Automobiles, &c., Gasolene-supplying attachment for. O. Zachow. No. 980,041; Dec. 27; Sp. p. 5674; Gaz. vol. 161; p. 977.
Automobiles, Hydraulic transmission for. B. H. Stevenson. No. 976,226; Nov. 22; Sp. p. 4728; Gaz. vol. 160; p. 811.
Automobiles, Hydrocarbon-burner for. J. N. Leach. No. 946,605; Jan. 18; Sp. p. 3563; Gaz. vol. 150; p. 599.
Automobiles, Lever-lock for. H. Hood. No. 972,193; Oct. 11; Sp. p. 1487; Gaz. vol. 159; p. 264.
Automobiles, Light-regulator for. W. Leuckert. No. 961,621; June 14; Sp. p. 2856; Gaz. vol. 155; p. 494.
Automobiles, Muffler cut-out for. H. McCleary. No. 971,458; Sept. 27; Sp. p. 4876; Gaz. vol. 158; p. 854.
Automobiles, Musical attachment for. D. J. Young. No. 963,018; June 28; Sp. p. 5815; Gaz. vol. 155; p. 1018.
Automobiles, Non-skidding device and climber for. F. Kaltenbach. No. 952,813; Mar. 22; Sp. p. 4827; Gaz. vol. 152; p. 868.
Automobiles, &c., Protector for. S. C. Partington. No. 969,899; Sept. 13; Sp. p. 1633; Gaz. vol. 158; p. 281.
Automobiles, Safety-brake and lock-switch mechanism for electric. O. P. Fritchle. No. 972,845; Oct. 18; Sp. p. 2902; Gaz. vol. 159; p. 516.
Automobiles, Spare-tire holder for. J. E. Fahlstrom. No. 956,954; May 3; Sp. p. 995; Gaz. vol. 154; p. 156.
Automobiles, Supplemental spring for. B. D. Bishop. No. 956,033; Apr. 26; Sp. p. 5068; Gaz. vol. 153; p. 896.
Automobiles, Tool-driving attachment for. H. B. Peters. No. 964,311; July 12; Sp. p. 2785; Gaz. vol. 156; p. 459.
Automobiles, trolley-cars, and the like, Cleaner for wind-shields for. C. Gardiner. No. 978,013; Dec. 6; Sp. p. 1272; Gaz. vol. 161; p. 204.
Autophone system. A. E. Stevens. No. 957,909; May 17; Sp. p. 3002; Gaz. vol. 154; p. 540.
Autoplane. C. W. Van Winkle. No. 974,846; Nov. 8; Sp. p. 1730; Gaz. vol. 160; p. 290.
Auxiliary motor for reversing reversible internal-combustion motors. K. J. E. Hesselman. No. 948,730; Feb. 8; Sp. p. 2014; Gaz. vol. 151; p. 345.
Auxiliary spring. C. L. Thomas. No. 947,167; Jan. 18; Sp. p. 4761; Gaz. vol. 150; p. 785.
Awl, Needle-. C. A. Carlson. No. 971,663; Oct. 4; Sp. p. 317; Gaz. vol. 159; p. 57.
Awl, Sewing-. J. N. Hill. No. 953,618; Mar. 29; Sp. p. 6541; Gaz. vol. 152; p. 1168.
Awning. H. Smith. No. 945,055; Jan. 4; Sp. p. 99; Gaz. vol. 150; p. 18.
Awning. W. G. Templeton. No. 962,176; June 21; Sp. p. 4071; Gaz. vol. 155; p. 707.
Awning. C. J. Kapka. No. 963,713; July 5; Sp. p. 1507; Gaz. vol. 156; p. 234.
Awning. C. J. Kapka. No. 963,714; July 5; Sp. p. 1510; Gaz. vol. 156; p. 235.
Awning. G. Zeliff. No. 966,727; Aug. 9; Sp. p. 1913; Gaz. vol. 157; p. 323.
Awning. E. F. Opie. No. 967,964; Aug. 23; Sp. p. 4501; Gaz. vol. 157; p. 791.
Awning. L. Rombaut. No. 979,566; Dec. 27; Sp. p. 4645; Gaz. vol. 161; p. 816.
Awning attachment. C. P. Sester. No. 946,827; Jan. 18; Sp. p. 4175; Gaz. vol. 150; p. 675.
Awning attachment. C. P. Sester. No. 970,959; Sept. 20; Sp. p. 3874; Gaz. vol. 158; p. 662.
Awning-fixture. J. Sullivan. No. 946,285; Jan. 11; Sp p. 2802; Gaz. vol. 150; p. 467.
Awning-fixture. W. J. O. Astrup. No. 960,771; June 7; Sp. p. 1080; Gaz. vol. 155; p. 181.
Awning-lift. J. W. Manard. No. 953,852; Apr. 5; Sp. p. 344; Gaz. vol. 153; p. 61.
Awning-operating device. J. F. Lockwood. No. 953,386; Mar. 29; Sp. p. 6051; Gaz. vol. 152; p. 1087.
Awning or window-tent. I. Farlin. No. 969,687; Sept. 6; Sp. p. 1132; Gaz. vol. 158; p. 183.
Awning-sash construction. J. Love. No. 975,547; Nov. 15; Sp. p. 3285; Gaz. vol. 160; p. 557.
Awning, Window-. L. A. Smith. No. 977,565; Dec. 6; Sp. p. 345; Gaz. vol. 161; p. 50.
Ax-rack. R. L. Reeder. No. 967,238; Aug. 16; Sp. p. 3022; Gaz. vol. 157; p. 522.
Axes, hammers, &c., Handle-extractor for. J. Veno. No. 975,304; Nov. 8; Sp. p. 2774; Gaz. vol. 160; p. 448.
Axle. W. M. Nash. No. 945,134; Jan. 4; Sp. p. 255; Gaz. vol. 150; p. 44.
Axle. W. J. Dunklin and G. R. Marley. No. 976,855; Nov. 29; Sp. p. 6112; Gaz. vol. 160; p. 1052.
Axle and bearing for vehicles. H. Houldsworth. No. 956,579; May 3; Sp. p. 156; Gaz. vol. 154; p. 27.
Axle bearing-box, Self-lubricating car-. G. E. Tennison. No. 976,314; Nov. 22; Sp. p. 4941; Gaz. vol. 160; p. 842.
Axle-box. S. T. Bole. No. 948,037; Feb. 1; Sp. p. 537; Gaz. vol. 151; p. 86.

Axle-box and dust-guard. J. D. Jones. No. 947,105; Jan. 18; Sp. p. 4646; Gaz. vol. 150; p. 766.
Axle box and saddle, Car-. E. L. Sharpneck. No. 977,139; Nov. 29; Sp. p. 6775; Gaz. vol. 160; p. 1152.
Axle-box dust-guard, Car-. W. A. Briggs and I. Millett. No. 958,953; May 24; Sp. p. 5527; Gaz. vol. 154; p. 927.
Axle-box lubricator. T. Manners. No. 974,407; Nov. 1; Sp. p. 737; Gaz. vol. 160; p. 112.
Axle-box, Vehicle. J. E. McDaniel. No. 958,270; May 17; Sp. p. 3955; Gaz. vol. 154; p. 666.
Axle, Car-. S. T. Pyeatt. No. 960,399; June 7; Sp. p. 332; Gaz. vol. 155; p. 55.
Axle, Car-. J. O. Neikirk. No. 976,486; Nov. 22; Sp. p. 5325; Gaz. vol. 160; p. 903.
Axle-clamp. E. B. Boggs. No. 967,165; Aug. 16; Sp. p. 2874; Gaz. vol. 157; p. 498.
Axle construction for car-trucks. W. T. Young. No. 962,398; June 21; Sp. p. 4516; Gaz. vol. 155; p. 779.
Axle construction, Rear-. R. H. Gilbert. No. 962,633; June 28; Sp. p. 5065; Gaz. vol. 155; p. 886.
Axle-couplings, Separating. B. R. Seabrook. No. 961,375; June 14; Sp. p. 2334; Gaz. vol. 155; p. 412.
Axle device, Differential-. F. C. Priestly and J. M. Aubery. No. 962,049; June 21; Sp. p. 3765; Gaz. vol. 155; p. 661.
Axle device, Differential-. M. Markarian. No. 964,038; July 12; Sp. p. 2229; Gaz. vol. 156; p. 367.
Axle device, Differential-. A. Becker. No. 969,073; Aug. 2; Sp. p. 497; Gaz. vol. 157; p. 80.
Axle, Differential. N. B. Seabrook. No. 961,376; June 14; Sp. p. 2335; Gaz. vol. 155; p. 413.
Axle, Differential car-. P. P. Cookingham. No. 945,915; Jan. 11; Sp. p. 2028; Gaz. vol. 150; p. 337.
Axle, Differential railway-. B. R. Seabrook. No. 956,195; Apr. 26; Sp. p. 5445; Gaz. vol. 153; p. 953.
Axle, Driving-. R. H. Gilbert. No. 949,179; Feb. 15; Sp. p. 2936; Gaz. vol. 151; p. 520.
Axle for automobile vehicles, Shaft-driven. F. Pilain. No. 975,276; Nov. 8; Sp. p. 2705; Gaz. vol. 160; p. 437.
Axle for motor-vehicles, Supporting-. B. D. Gray. No. 947,968; Feb. 1; Sp. p. 400; Gaz. vol. 151; p. 64.
Axle for railway-cars and locomotives, Differential. C. F. Phillips. No. 946,527; Jan. 11; Sp. p. 3424; Gaz. vol. 150; p. 548.
Axle, Front automobile-. J. Garlick. No. 965,288; July 26; Sp. p. 4930; Gaz. vol. 156; p. 850.
Axle, Independent car-. C. A. Girt, J. T. Wilson, and A. Atkins. No. 977,002; Nov. 29; Sp. p. 6475; Gaz. vol. 160; p. 1104.
Axle-lubricating device. E. Armstrong. (Reissue.) No. 13,167; Nov. 15; Sp. p. 4496; Gaz. vol. 160; p. 758.
Axle-lubricator. L. L. Arnold. No. 949,670; Feb. 15; Sp. p. 3921; Gaz. vol. 151; p. 684.
Axle-lubricator. J. F. Gross. No. 968,149; Aug. 28; Sp. p. 4927; Gaz. vol. 157; p. 854.
Axle-lubricator. J. L. Masters. No. 972,006; Oct. 4; Sp. p. 1094; Gaz. vol. 159; p. 183.
Axle-lubricator. C. Emerson and J. Peterson. No. 977,287; Nov. 29; Sp. p. 7073; Gaz. vol. 160; p. 1203.
Axle lubricator, Vehicle-. M. L. Clemmer. No. 956,289; Apr. 26; Sp. p. 5655; Gaz. vol. 153; p. 984.
Axle, Roller-bearing. M. Wille. No. 946,182; Jan. 11; Sp. p. 2585; Gaz. vol. 150; p. 429.
Axle-skein. A. H. and C. W. Bevil. No. 979,368; Dec. 20; Sp. p. 4210; Gaz. vol. 161; p. 726.
Axle-stub, Detachable. E. Vuncannon. No. 977,985; Dec. 6; Sp. p. 1216; Gaz. vol. 161; p. 195.
Axle, Stuffing-. E. Hartung. No. 966,331; Aug. 2; Sp. p. 1009; Gaz. vol. 157; p. 163.
Axle, Vehicle-. C. Criess. No. 955,251; Apr. 19; Sp. p. 3364; Gaz. vol. 153; p. 599.
Axle with drive, Automobile front. A. O., A. R., and C. W. Nordquist. No. 966,586; Aug. 9; Sp. p. 1622; Gaz. vol. 157; p. 276.
Axles, Device for laying off wooden. G. W. Golding. No. 945,515; Jan. 4; Sp. p. 1101; Gaz. vol. 150; p. 169.
Axles, Driving mechanism for divided. C. H. Johnson. No. 951,914; Mar. 15; Sp. p. 2969; Gaz. vol. 152; p. 538.
Axles, Driving mechanism for divided. C. H. Johnson. No. 951,915; Mar. 15; Sp. p. 2973; Gaz. vol. 152; p. 538.
Axles, Producing front yoke-. A. Johnson and C. L. Bockus. No. 963,372; July 5; Sp. p. 818; Gaz. vol. 156; p. 121.
Axles, stay and other bolts, &c., Rod for. F. M. Patterson. No. 959,159; May 24; Sp. p. 5954; Gaz. vol. 154; p. 996.
Azimuth instrument. A. F. H. Weule. No. 978,093; Dec. 6; Sp. p. 1445; Gaz. vol. 161; p. 233.
Baby-comforter. W. F. Ware. No. 954,066; Apr. 5; Sp. p. 770; Gaz. vol. 153; p. 134.
Baby exerciser or jumper. C. F. Emerick. No. 955,954; Apr. 26; Sp. p. 4911; Gaz. vol. 153; p. 867.
Baby-jumper. C. K. Gurley. No. 957,419; May 10; Sp. p. 1991; Gaz. vol. 154; p. 344.
Baby-jumper, Adjustable. E. E. Humphrey. No. 949,898; Feb. 22; Sp. p. 4466; Gaz. vol. 151; p. 798.
Baby-stand. P. F. Meyer. No. 965,476; July 26; Sp. p. 5347; Gaz. vol. 156; p. 915.
Back-band attachment. E. H. Griffin. No. 957,879; May 17; Sp. p. 2927; Gaz. vol. 154; p. 530.
Back-band hook. T. G. Peeples. No. 957,366; May 10; Sp. p. 1876; Gaz. vol. 154; p. 326.
Back-band hook and clamp. J. P. Freeman. No. 947,017; Jan. 18; Sp. p. 4492; Gaz. vol. 150; p. 739.
Backing-strip-applying machine. W. L. Jacobie. No. 960,332; June 7; Sp. p. 181; Gaz. vol. 155; p. 33.
Backboard. J. B. Horton. No. 977,309; Nov. 29; Sp. p. 7111; Gaz. vol. 160; p. 1210.
Backwater-trap. W. C. Burns. No. 946,894; Jan. 18; Sp. p. 4241; Gaz. vol. 150; p. 698.
Badge. H. Hesselbarth. No. 973,041; Oct. 18; Sp. p. 3382; Gaz. vol. 159; p. 586.
Bag: *See* Chatelaine-bag; Clothing-bag; Feed-bag; Feeding-bag; Filter-bag; Fruit-picker's bag; Fruit-picking bag; Golf-bag; Hand-bag; Harvesting-bag; Insulation-bag; Mail-bag; Nose-bag; Offal-bag; One-piece bag; Paper bag; Parasol-bag; Swimming-bag; Tool-bag.
Bag. W. P. Fitzgerald. No. 958,385; May 17; Sp. p. 4341; Gaz. vol. 154; p. 709.
Bag. H. J. Miller. No. 963,307; July 5; Sp. p. 692; Gaz. vol. 156; p. 99.
Bag. O. A. Lehman. No. 971,284; Sept. 27; Sp. p. 4558; Gaz. vol. 158; p. 797.
Bag. F. McKain. No. 977,817; Dec. 6; Sp. p. 866; Gaz. vol. 161; p. 136.
Bag and twine holder. C. E. Hedge. No. 957,507; May 10; Sp. p. 2159; Gaz. vol. 154; p. 373.
Bag-cleaner. W. Scott. No. 974,096; Oct. 25; Sp. p. 5612; Gaz. vol. 159; p. 973.
Bag-cleaning machine. N. E. Gardner. No. 956,523; May 3; Sp. p. 27; Gaz. vol. 154; p. 8.
Bag-cleaning machine. E. L. Buschman. No. 966,522; Aug. 9; Sp. p. 1480; Gaz. vol. 157; p. 254.
Bag-fastener. J. S. Isidor. No. 952,198; Mar. 15; Sp. p. 3490; Gaz. vol. 152; p. 629.
Bag-fastener. J. S. Isidor. No. 954,735; Apr. 12; Sp. p. 2251; Gaz. vol. 153; p. 390.
Bag-fastener. J. S. Isidor. No. 954,736; Apr. 12; Sp. p. 2254; Gaz. vol. 153; p. 391.
Bag-fastener. H. Vanderwerp. No. 955,232; Apr. 19; Sp. p. 3324; Gaz. vol. 153; p. 593.
Bag-fastener. H. D. Earl. No. 956,055; Apr. 26; Sp. p. 5117; Gaz. vol. 153; p. 903.
Bag-fastener. C. Hiering and A. Fuller. No. 972,765; Oct. 11; Sp. p. 2721; Gaz. vol. 159; p. 463.
Bag-feeding mechanism. G. L. Hoyt. No. 978,887; Dec. 20; Sp. p. 3148; Gaz. vol. 161; p. 559.
Bag filling and closing machine. J. N. Crowley. No. 949,675; Feb. 15; Sp. p. 3930; Gaz. vol. 151; p. 685.
Bag-filling machine. G. L. Hoyt. No. 977,632; Dec. 6; Sp. p. 481; Gaz. vol. 161; p. 73.
Bag handle attachment, Knit-. E. Kraemer. No. 954,113; Apr. 5; Sp. p. 869; Gaz. vol. 153; p. 151.
Bag-holder. F. C. Vonderahe, Jr. No. 945,645; Jan. 4; Sp. p. 1367; Gaz. vol. 150; p. 213.
Bag-holder. B. Bush. No. 957,652; May 10; Sp. p. 2447; Gaz. vol. 154; p. 423.
Bag-holder. E. C. Vicary. No. 960,451; June 7; Sp. p. 418; Gaz. vol. 155; p. 71.
Bag-holder. W. Ballard. No. 965,360; July 26; Sp. p. 5104; Gaz. vol. 156; p. 876.
Bag-holder. M. C. Parrish. No. 965,737; July 26; Sp. p. 5917; Gaz. vol. 156; p. 1006.
Bag-holder. L. Hanson. No. 968,349; Aug. 23; Sp. p. 5355; Gaz. vol. 157; p. 924.
Bag-holder. J. E. and C. Sapp. No. 970,398; Sept. 13; Sp. p. 2659; Gaz. vol. 158; p. 449.
Bag-holder. E. P. Kendall. No. 973,355; Oct. 18; Sp. p. 4057; Gaz. vol. 159; p. 694.
Bag-holder. C. L. Eastham. No. 973,414; Oct. 18; Sp. p. 4197; Gaz. vol. 159; p. 714.
Bag-holder. F. C. Vonderahe, Jr. No. 974,615; Nov. 1; Sp. p. 1224; Gaz. vol. 160; p. 188.
Bag-holder. E. Fairman and R. O. Munson. No. 978,441; Dec. 13; Sp. p. 2212; Gaz. vol. 161; p. 383.
Bag-holder and truck. W. W. Pecht. No. 947,419; Jan. 25; Sp. p. 5380; Gaz. vol. 150; p. 902.
Bag-making machine. A. J. Wikander. No. 945,832; Jan. 11; Sp. p. 1839; Gaz. vol. 150; p. 308.
Bag or purse frame. H. E. Nock. No. 945,136; Jan. 4; Sp. p. 260; Gaz. vol. 150; p. 45.
Bag-tie. J. M. Stryker. No. 960,432; June 7; Sp. p. 391; Gaz. vol. 155; p. 65.
Bags and other hollow rubber articles, Apparatus for forming hot-water. G. D. Farnam. No. 969,464; Sept. 6; Sp. p. 647; Gaz. vol. 158; p. 104.
Bags, Means for attaching valve-strips to. F. E. Beam. No. 952,782; Mar. 22; Sp. p. 4760; Gaz. vol. 152; p. 857.
Bags, Mechanism for attaching valve-strips to. F. E. Beam. No. 948,439; Feb. 8; Sp. p. 1383; Gaz. vol. 151; p. 247.
Bagging-machine. C. D. Cromley. No. 947,096; Jan. 18; Sp. p. 4630; Gaz. vol. 150; p. 764.
Bagging-machine. A. M. Bates. No. 959,447; May 31; Sp. p. 6535; Gaz. vol. 154; p. 1117.
Bagasse, Treating. T. J. Hutchinson. No. 975,387; Nov. 8; Sp. p. 2940; Gaz. vol. 160; p. 474.
Bail. C. F. Fulford. No. 978,445; Dec. 13; Sp. p. 2217; Gaz. vol. 161; p. 384.
Bail, Detachable. E. Hickey. No. 956,349; Apr. 26; Sp. p. 5774; Gaz. vol. 153; p. 1004.
Bail ear, Pail and bucket. T. Jerolaman. No. 971,678; Oct. 4; Sp. p. 354; Gaz. vol. 159; p. 62.

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Bail-ears on sheet-metal vessels, Forming. S. Svenson. No. 975,479; Nov. 15; Sp. p. 3122; Gaz. vol. 160; p. 533.
Bail for lanterns, &c. F. K. Wright. No. 975,817; Nov. 15; Sp. p. 3842; Gaz. vol. 160; p. 647.
Bail, Well-bucket. F. D. Walpole. No. 972,663; Oct. 11; Sp. p. 2517; Gaz. vol. 159; p. 428.
Bailing-horn. J. Brauer. No. 974,548; Nov. 1; Sp. p. 1096; Gaz. vol. 160; p. 165.
Bailing mechanism. C. J. Fogelmark, Sr. No. 960,221; May 31; Sp. p. 8201; Gaz. vol. 154; p. 1381.
Bait. M. L. Heatly. No. 978,290; Dec. 13; Sp. p. 1896; Gaz. vol. 161; p. 332.
Bait, Artificial. J. E. Pflueger. No. 954,691; Apr. 12; Sp. p. 2136; Gaz. vol. 153; p. 374.
Bait, Artificial. W. Murry. No. 962,237; June 21; Sp. p. 4179; Gaz. vol. 155; p. 726.
Bait, Artificial. J. K. Crosby. No. 962,319; June 21; Sp. p. 4369; Gaz. vol. 155; p. 754.
Bait, Artificial. J. Bohannan. No. 963,202; July 5; Sp. p. 439; Gaz. vol. 156; p. 62.
Bait, Artificial. C. Grove. No. 970,216; Sept. 13; Sp. p. 2317; Gaz. vol. 158; p. 389.
Bait, Artificial. F. W. Breder and J. H. Loyd. No. 972,748; Oct. 11; Sp. p. 2691; Gaz. vol. 159; p. 457.
Bait, Artificial. G. H. Garrison. No. 974,050; Oct. 25; Sp. p. 5523; Gaz. vol. 159; p. 958.
Bait, Artificial. E. L. Cox. No. 975,833; Nov. 15; Sp. p. 3866; Gaz. vol. 160; p. 653.
Bait, Fish-. F. A. Alger. No. 956,872; May 3; Sp. p. 809; Gaz. vol. 154; p. 129.
Bait, Minnow-. O. F. Immell. No. 974,493; Nov. 1; Sp. p. 961; Gaz. vol. 160; p. 143.
Bait receptacle, Live-. H. M. Montgomery. No. 953,540; Mar. 29; Sp. p. 6379; Gaz. vol. 152; p. 1142.
Bait, Trolling-. T. J. Byrom. No. 963,860; July 12; Sp. p. 1875; Gaz. vol. 156; p. 307.
Baker, Fireless. A. T. Thoits and J. G. Gronberg. (Reissue.) No. 13,110; May 3; Sp. p. 1443; Gaz. vol. 154; p. 232.
Bakers' peels, Handle for. S. E. Selleck. No. 964,817; July 19; Sp. p. 3978; Gaz. vol. 156; p. 662.
Baking apparatus, Bean-. F. A. Calley. No. 953,817; Apr. 5; Sp. p. 276; Gaz. vol. 153; p. 49.
Baking-iron. C. Marcuccilli. No. 965,475; July 26; Sp. p. 5345; Gaz. vol. 156; p. 915.
Baking-iron. G. N. Smith. No. 977,141; Nov. 29; Sp. p. 6780; Gaz. vol. 160; p. 1152.
Baking-pan. E. Wing. No. 955,033; Apr. 12; Sp. p. 2916; Gaz. vol. 153; p. 493.
Baking pan, Cake-. C. H. Geisel. No. 968,761; Aug. 30; Sp. p. 6257; Gaz. vol. 157; p. 1093.
Baking with quick heating and cooling. F. Virgili. No. 970,862; Sept. 20; Sp. p. 3700; Gaz. vol. 158; p. 632.
Balance, Specific-gravity. B. R. Jolly. No. 945,329; Jan. 4; Sp. p. 712; Gaz. vol. 150; p. 109.
Balance, Spring-. H. T. Gay. No. 946,822; Jan. 18; Sp. p. 4055; Gaz. vol. 150; p. 672.
Balance-wheel and staff-fastener. J. W. Cahill. No. 949,645; Feb. 15; Sp. p. 3886; Gaz. vol. 151; p. 677.
Balance-wheel, Compensating. F. Ecaubert. No. 965,505; July 26; Sp. p. 5405; Gaz. vol. 156; p. 925.
Balancing and steering planes. T. Windel. No. 964,828; July 19; Sp. p. 3997; Gaz. vol. 156; p. 665.
Balancing device. R. R. Reed. No. 955,435; Apr. 19; Sp. p. 3752; Gaz. vol. 153; p. 659.
Balancing device, Automatic. V. G. Gustafson. No. 977,523; Dec. 6; Sp. p. 242; Gaz. vol. 161; p. 36.
Balancing-machine. N. C. Bassett. No. 953,811; Apr. 5; Sp. p. 262; Gaz. vol. 153; p. 46.
Bale and bale-trunk. W. L. Spoon. No. 963,955; July 12; Sp. p. 2055; Gaz. vol. 156; p. 337.
Bale and like transporter. A. and C. Winckler. No. 964,079; July 12; Sp. p. 2319; Gaz. vol. 156; p. 381.
Bale-box. J. N. Wood. No. 971,948; Oct. 4; Sp. p. 967; Gaz. vol. 159; p. 162.
Bale-box. J. N. Wood. No. 971,952; Oct. 4; Sp. p. 978; Gaz. vol. 159; p. 164.
Bale or package tie. E. Walden. No. 980,136; Dec. 27; Sp. p. 5906; Gaz. vol. 161; p. 1008.
Bale-tie. W. E. Wheeler. No. 964,352; July 12; Sp. p. 2864; Gaz. vol. 156; p. 473.
Bale-tie machine. J. A. Scharf. No. 955,000; Apr. 12; Sp. p. 2842; Gaz. vol. 153; p. 483.
Bale-tying mechanism. C. A. Johnson. No. 969,284; Sept. 6; Sp. p. 279; Gaz. vol. 158; p. 46.
Bales or packages, Tying device for hay. W. H. Leavitt, No. 953,211; Mar. 29; Sp. p. 5661; Gaz. vol. 152; p. 1028.
Bales or packages, Tying device for hay. W. H. Leavitt. No. 970,065; Sept. 13; Sp. p. 2000; Gaz. vol. 158; p. 339.
Baler, Hay-. W. T. Bishop. No. 960,796; June 7; Sp. p. 1127; Gaz. vol. 155; p. 188.
Baler, Paper-. C. Parr. No. 968,793; Aug. 30; Sp. p. 6325; Gaz. vol. 157; p. 1102.
Balers, Spring and power pull-back for hay-. G. Schubert. No. 971,151; Sept. 27; Sp. p. 4280; Gaz. vol. 158; p. 754.
Baling apparatus. J. N. Wood. No. 971,951; Oct. 4; Sp. p. 976; Gaz. vol. 154; p. 163.
Baling device. J. N. Wood. No. 971,947; Oct. 4; Sp. p. 966; Gaz. vol. 159; p. 162.
Baling-machine. R. J. Hart. No. 947,039; Jan. 18; Sp. p. 4526; Gaz. vol. 150; p. 746.
Baling mechanism. T. A. Killman. No. 963,775; July 12; Sp. p. 1654; Gaz. vol. 156; p. 278.
Baling-press. J. S. Tuttle. No. 945,114; Jan. 4; Sp. p. 221; Gaz. vol. 150; p. 38.
Baling-press. J. S. Tuttle. No. 945,876; Jan. 11; Sp. p. 1941; Gaz. vol. 150; p. 323.
Baling-press. J. O. Ekleberry. No. 946,209; Jan. 11; Sp. p. 2633; Gaz. vol. 150; p. 438.
Baling-press. T. J. Carning. No. 947,375; Jan. 25; Sp. p. 5276; Gaz. vol. 150; p. 887.
Baling-press. E. D. Smith. No. 948,529; Feb. 8; Sp. p. 1577; Gaz. vol. 151; p. 278.
Baling-press. L. B. Fields. No. 948,759; Feb. 8; Sp. p. 2090; Gaz. vol. 151; p. 355.
Baling-press. R. C. Caughey. No. 949,259; Feb. 15; Sp. p. 3098; Gaz. vol. 151; p. 547.
Baling-press. W. G. Merrall. No. 949,656; Feb. 15; Sp. p. 3905; Gaz. vol. 151; p. 680.
Baling-press. W. W. McCallum. No. 949,748; Feb. 15; Sp. p. 4104; Gaz. vol. 151; p. 711.
Baling-press. S. M. McCorkle and R. L. Payne. No. 950,700; Mar. 1; Sp. p. 506; Gaz. vol. 152; p. 81.
Baling-press. H. L. Whitman. No. 954,067; Apr. 5; Sp. p. 772; Gaz. vol. 153; p. 134.
Baling-press. J. Barens. No. 957,026; May 3; Sp. p. 1143; Gaz. vol. 154; p. 180.
Baling-press. F. A. Ryther. No. 958,321; May 17; Sp. p. 4208; Gaz. vol. 154; p. 687.
Baling-press. F. W. Williams. No. 958,900; May 24; Sp. p. 5437; Gaz. vol. 154; p. 910.
Baling-press. W. R. Ball. No. 961,998; June 21; Sp. p. 3657; Gaz. vol. 155; p. 643.
Baling-press. J. W. Hobson. No. 962,432; June 28; Sp. p. 4625; Gaz. vol. 155; p. 817.
Baling-press. E. Ninfeldt. No. 963,383; July 5; Sp. p. 837; Gaz. vol. 156; p. 124.
Baling-press. W. R. Taylor. No. 964,823; July 19; Sp. p. 3988; Gaz. vol. 156; p. 664.
Baling-press. F. A. Ryther. No. 965,750; July 26; Sp. p. 5936; Gaz. vol. 156; p. 1010.
Baling-press. E. J. Steinberger. No. 966,614; Aug. 9; Sp. p. 1669; Gaz. vol. 157; p. 285.
Baling-press. J. N. Wood. No. 967,478; Aug. 16; Sp. p. 3515; Gaz. vol. 157; p. 605.
Baling-press. H. L. Whitman. No. 967,594; Aug. 16; Sp. p. 3749; Gaz. vol. 157; p. 644.
Baling-press. G. E. Jackson. No. 967,926; Aug. 23; Sp. p. 4420; Gaz. vol. 157; p. 778.
Baling-press. S. G. Gilleland. No. 968,650; Aug. 30; Sp. p. 5991; Gaz. vol. 157; p. 1053.
Baling-press. H. J. Hanson. No. 971,606; Oct. 4; Sp. p. 214; Gaz. vol. 159; p. 37.
Baling-press. G. E. Jackson. No. 971,616; Oct. 4; Sp. p. 231; Gaz. vol. 159; p. 41.
Baling-press. J. N. Wood. No. 971,949; Oct. 4; Sp. p. 970; Gaz. vol. 159; p. 162.
Baling-press. J. N. Wood. No. 971,950; Oct. 4; Sp. p. 973; Gaz. vol. 159; p. 163.
Baling-press. U. F. Luebben. No. 972,884; Oct. 18; Sp. p. 2999; Gaz. vol. 159; p. 531.
Baling-press. C. E. Wehrenberg. No. 973,151; Oct. 18; Sp. p. 3620; Gaz. vol. 159; p. 624.
Baling-press. C. E. Walker. No. 974,319; Nov. 1; Sp. p. 561; Gaz. vol. 160; p. 81.
Baling-press. W. S. Livengood. No. 976,474; Nov. 22; Sp. p. 5292; Gaz. vol. 160; p. 898.
Baling-press. J. W. Brown. No. 977,780; Dec. 6; Sp. p. 793; Gaz. vol. 161; p. 124.
Baling-press. A. Wickey. No. 977,913; Dec. 6; Sp. p. 1067; Gaz. vol. 161; p. 170.
Baling-press. P. Trick. No. 978,078; Dec. 6; Sp. p. 1408; Gaz. vol. 161; p. 227.
Baling-press. J. D. Hendrix. No. 978,158; Dec. 13; Sp. p. 1604; Gaz. vol. 161; p. 285.
Baling-press. T. C. Smith. No. 978,229; Dec. 13; Sp. p. 1761; Gaz. vol. 161; p. 309.
Baling-press. R. Y. Mitchell. No. 979,022; Dec. 20; Sp. p. 3463; Gaz. vol. 161; p. 607.
Baling-press. J. Barens. No. 979,055; Dec. 20; Sp. p. 3534; Gaz. vol. 161; p. 618.
Baling-press. T. H. Diserens. No. 979,659; Dec. 27; Sp. p. 4841; Gaz. vol. 161; p. 849.
Baling press, Cotton-. E. A. Withers. No. 952,291; Mar. 15; Sp. p. 3697; Gaz. vol. 152; p. 661.
Baling-press feeding device. C. J. Johnson. No. 959,144; May 24; Sp. p. 5920; Gaz. vol. 154; p. 991.
Baling press, Fibrous-material-. W. L. Spoon. No. 963,823; July 12; Sp. p. 1775; Gaz. vol. 156; p. 294.
Baling-press tying mechanism. C. A. Johnson. No. 966,099; Aug. 2; Sp. p. 541; Gaz. vol. 157; p. 88.
Baling-presses, Automatic binding attachment for. C. A. Robben. No. 963,180; July 5; Sp. p. 386; Gaz. vol. 156; p. 55.
Baling-presses, Spring and power pull-back for. G. Schubert. No. 971,152; Sept. 27; Sp. p. 4282; Gaz. vol. 158; p. 754.
Baling-presses, Wiring mechanism for. J. S. Tuttle. No. 962,273; June 21; Sp. p. 4268; Gaz. vol. 155; p. 738.
Baling-tie. P. Reither. No. 961,258; June 14; Sp. p. 2062; Gaz. vol. 155; p. 371.

Ball: *See* Cylindrical ball; Golf-ball; Tenpin-ball.
Ball. W. P. Whitley. No. 978,250; Dec. 13; Sp. p. 1808; Gaz. vol. 161; p. 316.
Ball and like game, Base-. P. P. Garbarino. No. 945,511; Jan. 4; Sp. p. 1092; Gaz. vol. 150; p. 168.
Ball-and-socket joint. F. A. Dillingham. No. 973,635; Oct. 25; Sp. p. 4674; Gaz. vol. 159; p. 812.
Ball-and-socket joint. L. Wessell. No. 978,091; Dec. 6; Sp. p. 1442; Gaz. vol. 161; p. 233.
Ball and tube mill, Combined. J. E. Kennedy. No. 953,092; Mar. 29; Sp. p. 5406; Gaz. vol. 152; p. 990.
Ball-bearing joint. S. C. Mason. No. 946,061; Jan. 11; Sp. p. 2324; Gaz. vol. 150; p. 387.
Ball-bearing lock. A. Kunkel. No. 977,655; Dec. 6; Sp. p. 534; Gaz. vol. 161; p. 81.
Ball-bearing lock for doors and gates. F. Ziganek. No. 948,387; Feb. 8; Sp. p. 1286; Gaz. vol. 151; p. 231.
Ball-bearing shears. D. A. Mickleson. No. 951,539; Mar. 8; Sp. p. 2189; Gaz. vol. 152; p. 380.
Ball-bearing wheel. C. M. Raymond. No. 963,650; July 5; Sp. p. 1377; Gaz. vol. 156; p. 214.
Ball-grinding machine. A. F. Rockwell. No. 949,912; Feb 22; Sp. p. 4495; Gaz. vol. 151; p. 803.
Ball-grip. M. A. Boland. No. 977,776; Dec. 6; Sp. p. 785; Gaz. vol. 161; p. 122.
Ball-joint, Flexible. C. O'Neill and W. H. Neubeck. No. 959,378; May 24; Sp. p. 6394; Gaz. vol. 154; p. 1069.
Ball-knocker. J. B. Oeink. No. 969,489; Sept. 6; Sp. p. 719; Gaz. vol. 158; p. 114.
Ball-mill or comminuter plate. H. D. Hibbard. No. 971,196; Sept. 27; Sp. p. 4383; Gaz. vol. 158; p. 769.
Ball-mill plate. J. M. Sherrerd. No. 971,153; Sept. 27; Sp. p. 4283; Gaz. vol. 158; p. 754.
Ball-playing apparatus. W. Lammersen. No. 950,569; Mar. 1; Sp. p. 227; Gaz. vol. 152; p. 38.
Balls, Making hollow metallic. J. W. Schatz. No. 955,698; Apr. 19; Sp. p. 4348; Gaz. vol. 153; p. 750.
Ballast-dresser. T. S. Cafferty and J. F. Markle. No. 978,691; Dec. 13; Sp. p. 2754; Gaz. vol. 161; p. 469.
Ballast-unloader. C. B. King and H. J. Barnhart. No. 957,348; May 10; Sp. p. 1845; Gaz. vol. 154; p. 321.
Ballast-unloader. W. Ferris. No. 972,070; Oct. 4; Sp. p. 1212; Gaz. vol. 159; p. 205.
Balloon. J. Schilling. No. 954,215; Apr. 5; Sp. p. 1119; Gaz. vol. 153; p. 186.
Balloon-coverings, Stiffening-skeleton for. W. Rettig. No. 974,434; Nov. 1; Sp. p. 807; Gaz. vol. 160; p. 122.
Ballot, Mechanical. D. L. Newcomb. No. 947,841; Feb 1; Sp. p. 128; Gaz. vol. 151; p. 23.
Ballot, Mechanical. D. L. Newcomb and H. A. Brooks. No. 969,718; Sept. 6; Sp. p. 1196; Gaz. vol. 158; p. 193.
Banana-carrier. L. Scheekman. No. 947,354; Jan. 25; Sp. p. 5228; Gaz. vol. 150; p. 880.
Band-brake. B. B. Bachman. No. 971,103; Sept. 27; Sp. p. 4185; Gaz. vol. 158; p. 739.
Band-brake. G. H. Denton. No. 977,714; Dec. 6; Sp. p. 664; Gaz. vol. 161; p. 101.
Band-cutter. J. Karmann, Jr. No. 970,624; Sept. 20; Sp. p. 3194; Gaz. vol. 158; p. 549.
Band-cutter and feeder. J. B. Bartholomew. No. 959,445; May 31; Sp. p. 6522; Gaz. vol. 154; p. 1116.
Band-cutter and feeder. J. B. Bartholomew. No. 959,446; May 31; Sp. p. 6530; Gaz. vol. 154; p. 1116.
Band-cutter and feeder. G. E. Morriss and H. F. Beard. No. 962,235; June 21; Sp. p. 4175; Gaz. vol. 155; p. 725.
Band-cutter and feeder. C. I. Blakley. No. 963,270; July 5; Sp p. 623; Gaz. vol. 156; p. 87.
Band-cutter knife. G. A. Hege. No. 950,448; Feb. 22; Sp. p. 5616; Gaz. vol. 151; p. 985.
Band stretcher and cutter, Wire-. C. E. Carrier. No. 978,694; Dec. 13; Sp. p. 2758; Gaz. vol. 161; p. 470.
Bandage. E. H. Saxe. No. 950,143; Feb. 22; Sp. p. 5016; Gaz. vol. 151; p. 882.
Bandage. S. Bottomley. No. 959,704; May 31; Sp. p. 7081; Gaz. vol. 154; p. 1202.
Bandage. G. S. Van Gorder. No. 978,794; Dec. 13; Sp. p. 2967; Gaz. vol. 161; p. 502.
Bandage, Ear-. K. Berthel. No. 973,158; Oct. 18; Sp. p. 3637; Gaz. vol. 159; p. 626.
Bandage, Hot-water. J. E. Forbes and B. A. Darr. No. 970,907; Sept. 20; Sp. p. 3777; Gaz. vol. 158; p. 645.
Bandage, Suspensory. S. D. Delp. No. 967,736; Aug. 16; Sp. p. 4041; Gaz. vol. 157; p. 692.
Banjo. A. G. Rengert and R. S. Schwandt. No. 977,127; Nov. 29; Sp. p. 6746; Gaz. vol. 160; p. 1148.
Banjo attachment. G. M. Spencer. No. 951,492; Mar. 8; Sp. p. 2105; Gaz. vol. 152; p. 364.
Banjo-bridge. E. L. Griffis. No. 974,053; Oct. 25; Sp. p. 5527; Gaz. vol. 159; p. 958.
Banjo finger-rest. W. H. Crown. No. 965,691; July 26; Sp. p. 5832; Gaz. vol. 156; p. 991.
Bank, Clock-. W. E. Porter. No. 977,126; Nov. 29; Sp. p. 6744; Gaz. vol. 160; p. 1148.
Bank-note cutter. H. E. Hoke. No. 959,342; May 24; Sp. p. 6324; Gaz. vol. 154; p. 1057.
Bank-protector. M. E. Frank. No. 974,564; Nov. 1; Sp. p. 1132; Gaz. vol. 160; p. 170.
Bank, Pocket-. A. L. Andrews. No. 963,200; July 5; Sp. p. 436; Gaz. vol. 156; p. 62.
Bank, Registering-. A. E. Jacobs. No. 964,025; July 12; Sp. p. 2203; Gaz. vol. 156; p. 362.
Bank, Registering-. G. E. Trask. No. 966,140; Aug. 2; Sp. p. 615; Gaz. vol. 157; p. 101.
Bank, Savings-. F. Rhode. No. 945,606; Jan. 4; Sp. p. 1280; Gaz. vol. 150; p. 200.
Bank, Savings-. R. W. Crary. No. 956,685; May 3; Sp. p. 388; Gaz. vol. 154; p. 64.
Bar: *See* Angle-bar; Boring-bar; Chisel-bar; Claw-bar; Claw and pinch bar; Commutator-bar; Cutter-bar; Dolly-bar; Draw-bar; Fire-bar; Furnace cleavage-bar; Furnace grate-bar; Furrow-opener drag-bar; Glazing-bar; Grate-bar; Harrow draft-bar; Harrow draw-bar; Harvester cutter-bar; Head-rest bar; Horseshoe toe-calk bar; Jewel-bar; Metal bar; Mowing-machine cutter-bar; Reinforcing-bar; Sash-bar; Sill-bar; Skylight-bar; Splice-bar; Tamping-bar; Tracker-bar; Transom-bar; Truss-bar; Type-bar; Window-bar.
Bar appliance. W. Jansen. No. 976,657; Nov. 22; Sp. p. 5685; Gaz. vol. 160; p. 961.
Bar-cutter, Rotary. P. Hilgers. No. 976,653; Nov. 22; Sp. p. 5675; Gaz. vol. 160; p. 959.
Bars on lathes for dressing, cutting, or workingthe same, Suspension for. F. Girard. No. 962,829; June 28; Sp. p. 5466; Gaz. vol. 155; p. 955.
Barber-pole. E. Richardson. No. 950,806; Mar. 1; Sp. p. 746; Gaz. vol. 152; p. 119.
Barber-shops, Registering-indicator for. S. H. Mason. No. 960,661; June 7; Sp. p. 862; Gaz. vol. 155; p. 142.
Barber's chair. A. Fiore. No. 947,015; Jan. 18; Sp. p. 4490; Gaz. vol. 150; p. 739.
Barber's chair. C. W. Fischer and C. Zimmerman. No. 947,380; Jan. 25; Sp. p. 5289; Gaz. vol. 150; p. 889.
Barber's chair. C. Pfanschmidt and A. Schwarzkopf. No. 968,404; Aug. 23; Sp. p. 5466; Gaz. vol. 157; p. 942.
Barber's chair, Hydraulic. H. H. Ross. No. 957,258; May 10; Sp. p. 1643; Gaz. vol. 154; p. 289.
Barge. R. J. Donovan. No. 973,860; Oct. 25; Sp. p. 5129; Gaz. vol. 159; p. 891.
Barge, Coal-loading. W. Yoha, C. P. Shatzer, and H. L. Yoha. No. 952,293; Mar. 15; Sp. p. 3703; Gaz. vol. 152; p. 662.
Barge, Header-. W. S. Alley. No. 957,483; May 10; Sp. p. 2107; Gaz. vol. 154; p. 366.
Barium chlorid and strontium chlorid for producing chlorin and hydroxid of the said metals, Treating. A. Clemm. No. 973,171; Oct. 18; Sp. p. 3684; Gaz. vol. 159; p. 631.
Barium hydroxid, Making anhydrous. C. Rollin. No. 974,993; Nov. 8; Sp. p. 2092; Gaz. vol. 160; p. 341.
Barium oxid, Making. C. Rollin. No. 974,921; Nov. 8; Sp. p. 1910; Gaz. vol. 160; p. 316.
Barium sulfite, Making. L. Baker. No. 967,488; Aug. 16; Sp. p. 3539; Gaz. vol. 157; p. 608.
Bark from wood, Separating. F. W. Ayer. No. 979,914; Dec. 27; Sp. p. 5407; Gaz. vol. 161; p. 935.
Bark-removing process. A. R. Wilkinson. No. 966,503; Aug. 9; Sp. p. 1414; Gaz. vol. 157; p. 248.
Bark-rossing device. C. Friedlund. No. 973,494; Oct. 25; Sp. p. 4372; Gaz. vol. 159; p. 765.
Barometers, Setting of. J. B. Mitchell. No. 951,140; Mar. 8; Sp. p. 1375; Gaz. vol. 152; p. 250.
Barovacuummeter. G. Frerichs. No. 960,633; June 7; Sp. p. 809; Gaz. vol. 155; p. 133.
Barrel. J. Wollar. No. 949,457; Feb. 15; Sp. p. 3516; Gaz. vol. 151; p. 614.
Barrel. G. L. O'Brien. No. 951,023; Mar. 1; Sp. p. 1148; Gaz. vol. 152; p. 187.
Barrel. G. Shields. No. 961,737; June 14; Sp. p. 3087; Gaz. vol. 155; p. 533.
Barrel. G. Shields. No. 969,205; Sept. 6; Sp. p. 136; Gaz. vol. 158; p. 22.
Barrel. W. L. Ward. No. 972,664; Oct. 11; Sp. p. 2518; Gaz. vol. 159; p. 428.
Barrel and constructing same, Knockdown bilge-. F. Prahl. No. 961,159; June 14; Sp. p. 1850; Gaz. vol. 155; p. 335.
Barrel-bodies, Making bilged. W. H. Decker. No. 957,457; May 10; Sp. p. 2060; Gaz. vol. 154; p. 357.
Barrel-carrying device. S. C. Jensen. No. 958,923; May 24; Sp. p. 5478; Gaz. vol. 154; p. 918.
Barrel-cleaning apparatus. S. Kellogg. No. 954,811; Apr. 12; Sp. p. 2441; Gaz. vol. 153; p. 417.
Barrel, Collapsible. O. T. Giroux. No. 948,318; Feb. 8; Sp. p. 1122; Gaz. vol. 151; p. 206.
Barrel, Collapsible and folding. S. P. Spitsnagle. No. 975,900; Nov. 15; Sp. p. 4012; Gaz. vol. 160; p. 676.
Barrel-cover. A. M. Weaver and H. E. Taylor. No. 960,606; June 7; Sp. p. 746; Gaz. vol. 155; p. 123.
Barrel-cover. J. R. Andrews and J. W. Waldrum. No. 977,425; Dec. 6; Sp. p. 1; Gaz. vol. 161; p. 3.
Barrel-cover fastener. A. Leclair. No. 947,714; Jan. 25; Sp. p. 6008; Gaz. vol. 150; p. 1000.
Barrel-cover fastener. H. U. Ruedy. No. 975,080; Nov. 8; Sp. p. 2271; Gaz. vol. 160; p. 370.
Barrel, Cyanid-. B. O. Webb. No. 956,655; May 3; Sp. p. 323; Gaz. vol. 154; p. 53.
Barrel-filling machine. H. W. Colby. No. 959,463; May 31; Sp. p. 6575; Gaz. vol. 154; p. 1122.
Barrel filling or tapping device. O. Jahr. No. 958,403; May 17; Sp. p. 4375; Gaz. vol. 154; p. 715.
Barrel-forming machine. E. P. Everett and G. W. Norton. No. 947,629; Jan. 25; Sp. p. 5855; Gaz. vol. 150; p. 972.

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Barrel-hanger. W. A. Johnson. No. 965,526; July 26; Sp. p. 5478; Gaz. vol. 156; p. 933.
Barrel-head. I. Francis. No. 965,803; July 26; Sp. p. 6069; Gaz. vol. 156; p. 1029.
Barrel-head fastener. J. N. Clouse. No. 949,975; Feb. 22; Sp. p. 4623; Gaz. vol. 151; p. 825.
Barrel-head fastener. J. N. Clouse. No. 956,759; May 3; Sp. p. 558; Gaz. vol. 154; p. 89.
Barrel-header. L. Weinman. No. 969,430; Sept. 6; Sp. p. 593; Gaz. vol. 158; p. 95.
Barrel-heading-up machine. E. F. Beugler. No. 946,714; Jan. 18; Sp. p. 3792; Gaz. vol. 150; p. 634.
Barrel-heater. H. Grahn. No. 954,623; Apr. 12; Sp. p. 1988; Gaz. vol. 153; p. 351.
Barrel-heater. W. D. Mount. No. 964,673; July 19; Sp. p. 3580; Gaz. vol. 156; p. 613.
Barrel-heating apparatus. H. E. Marten. No. 946,246; Jan. 11; Sp. p. 2723; Gaz. vol. 150; p. 452.
Barrel-hoop. C. Hoff. No. 951,912; Mar. 15; Sp. p. 2967; Gaz. vol. 152; p. 537.
Barrel-hoop. R. McGaffey. No. 953,639; Mar. 29; Sp. p. 6580; Gaz. vol. 152; p. 1175.
Barrel-hoop. F. X. Pfluger. No. 970,107; Sept. 13; Sp. p. 2070; Gaz. vol. 158; p. 352.
Barrel, Knockdown. G. K. Stitzer. No. 949,309; Feb. 15; Sp. p. 3199; Gaz. vol. 151; p. 564.
Barrel, Knockdown. D. E. Brown and L. L. Kast. No. 962,938; June 28; Sp. p. 5664; Gaz. vol. 155; p. 992.
Barrel, Knockdown bilge-. F. A. Prahl. No. 961,160; June 14; Sp. p. 1854; Gaz. vol. 155; p. 336.
Barrel, Knockdown bilge-. F. A. Prahl. No. 961,161; June 14; Sp. p. 1857; Gaz. vol. 155; p. 336.
Barrel, Metal. W. B. Goddard. No. 971,439; Sept. 27; Sp. p. 4841; Gaz. vol. 158; p. 847.
Barrel, Metal. F. E. Firth. No. 975,342; Nov. 8; Sp. p. 2844; Gaz. vol. 160; p. 459.
Barrel, Metallic. H. W. Avery. No. 966,513; Aug. 9; Sp. p. 1466; Gaz. vol. 157; p. 251.
Barrel, Metallic. J. H. George. No. 967,629; Aug. 9; Sp. p. 3819; Gaz. vol. 157; p. 656.
Barrel, Metallic. J. H. George. No. 967,630; Aug. 9; Sp. p. 3821; Gaz. vol. 157; p. 656.
Barrel, Metallic. J. H. George. No. 967,752; Aug. 16; Sp. p. 4071; Gaz. vol. 157; p. 697.
Barrel-sanding apparatus. H. F. Marten and H. Grahn. No. 973,059; Oct. 18; Sp. p. 3419; Gaz. vol. 159; p. 592.
Barrel-scrubbing machine. A. Danner. No. 957,659; May 10; Sp. p. 2463; Gaz. vol. 154; p. 425.
Barrel, Sheet-metal. H. W. Avery and W. S. Judd. No. 972,797; Oct. 18; Sp. p. 2790; Gaz. vol. 159; p. 498.
Barrel, Tumbling-. H. M. Greist. No. 965,813; July 26; Sp. p. 6087; Gaz. vol. 156; p. 1032.
Barrel-washing machine. J. Müller. No. 951,572; Mar. 8; Sp. p. 2251; Gaz. vol. 152; p. 391.
Barrel-washing machine. E. H. Wright. No. 966,507; Aug. 9; Sp. p. 1441; Gaz. vol. 157; p. 249.
Barrels and casks, Device for the extraction of spirits from used. R. W. Nicolls and J. Bogum. No. 950,512; Mar. 1; Sp. p. 107; Gaz. vol. 152; p. 18.
Barrels, casks, &c., Recovering soakage from. W. Miller. No. 951,328; Mar. 8; Sp. p. 1762; Gaz. vol. 152; p. 310.
Barrette. P. Ledger. No. 946,058; Jan. 11; Sp. p. 2321; Gaz. vol. 150; p. 386.
Barrette. A. Burke. No. 956,793; May 3; Sp. p. 628; Gaz. vol. 154; p. 100.
Barrette. M. J. Farrell and P. J. Dowd. No. 977,379; Nov. 29; Sp. p. 7275; Gaz. vol. 160; p. 1235.
Barrette. E. C. Glines. No. 979,471; Dec. 27; Sp. p. 4432; Gaz. vol. 161; p. 783.
Barrette, Double-tongue. A. Burke. No. 959,712; May 31; Sp. p. 7096; Gaz. vol. 154; p. 1205.
Barrette, Puff-forming. M. B. Nathanson. No. 956,991; May 3; Sp. p. 1069; Gaz. vol. 154; p. 168.
Barrow, Dumping-. L. M. Schoonmaker. No. 959,265; May 24; Sp. p. 6166; Gaz. vol. 154; p. 1031.
Basin, Wash-. J. Hartness. No. 949,396; Feb. 15; Sp. p. 3408; Gaz. vol. 151; p. 595.
Basket. T. C. Nelson. No. 955,824; Apr. 19; Sp. p. 4596; Gaz. vol. 153; p. 794.
Basket. J. Johnson. No. 960,555; June 7; Sp. p. 650; Gaz. vol. 155; p. 106.
Basket closure, Fishing or other. R. E. Eaton. No. 956,801; May 3; Sp. p. 647; Gaz. vol. 154; p. 103.
Basket-covers, Automatic machinery for making. R. B. Fuller. No. 947,324; Jan. 25; Sp. p. 5154; Gaz. vol. 150; p. 870.
Basket, Delivery-. W. S. Crum. No. 960,833; June 7; Sp. p. 1203; Gaz. vol. 155; p. 200.
Basket, Fruit-. N. E. Marshburn. No. 976,668; Nov. 22; Sp. p. 5700; Gaz. vol. 160; p. 964.
Basket, Hanging. J. E. Gillespie. No. 951,684; Mar. 8; Sp. p. 2473; Gaz. vol. 152; p. 428.
Basket-holder. G. S. Paine and A. D. Priest. No. 947,024; Jan. 18; Sp. p. 4508; Gaz. vol. 150; p. 742.
Basket-making machine. W. F. Barnes. No. 952,406; Mar. 15; Sp. p. 3908; Gaz. vol. 152; p. 700.
Basket, Work-. S. Krohnengold and A. Raphael. No. 957,066; May 3; Sp. p. 1220; Gaz. vol. 154; p. 193.
Baskets, Handling-machine for. F. L. Haberle. No. 945,521; Jan. 4; Sp. p. 1109; Gaz. vol. 150; p. 171.
Bat, Base-ball. J. R. Dean. No. 979,266; Dec. 20; Sp. p. 4030; Gaz. vol. 161; p. 693.
Bats, Machine for compressing and rolling. S. M. Ball, B. N. McNiel, and H. Pennington. No. 961,997; June 21; Sp. p. 3653; Gaz. vol. 155; p. 642.
Bath: *See* Oxygen-bath; Portable bath; Steam face-bath; Taboret-bath.
Bath apparatus, Shower-. J. A. Hickey. No. 947,330; Jan. 25; Sp. p. 5166; Gaz. vol. 150; p. 872.
Bath apparatus, Shower-. F. E. Youngs. No. 950,269; Feb. 22; Sp. p. 5291; Gaz. vol. 151; p. 927.
Bath apparatus, Shower-. G. Winters. No. 972,589; Oct. 11; Sp. p. 2366; Gaz. vol. 159; p. 403.
Bath apparatus, Shower-valve for. G. T. Kenly. No. 961,723; June 14; Sp. p. 3045; Gaz. vol. 155; p. 528.
Bath-cabinet. J. C. Hoyt. No. 959,743; May 31; Sp. p. 7162; Gaz. vol. 154; p. 1215.
Bath-cabinet. A. M. Holaday. No. 964,779; July 19; Sp. p. 3906; Gaz. vol. 156; p. 649.
Bath-cabinet. J. R. Ohmstede. No. 977,828; Dec. 6; Sp. p. 888; Gaz. vol. 161; p. 139.
Bath-hopper, Foldable. B. D. Knickerbocker. No. 954,972; Apr. 12; Sp. p. 2797; Gaz. vol. 153; p. 474.
Bath mixer, Shower-. W. Ingham. No. 953,787; Apr. 5; Sp. p. 204; Gaz. vol. 153; p. 38.
Bath-spray. J. J. Lawler. No. 969,292; Sept. 6; Sp. p. 297; Gaz. vol. 158; p. 49.
Bath-tub. S. F. Williams. No. 945,299; Jan. 4; Sp. p. 641; Gaz. vol. 150; p. 99.
Bath-tub. F. Oliver. No. 949,303; Feb. 15; Sp. p. 3189; Gaz. vol. 151; p. 562.
Bath-tub. J. H. Neal. No. 962,240; June 21; Sp. p. 4184; Gaz. vol. 155; p. 727.
Bath-tub. P. Musselman. No. 962,970; June 28; Sp. p. 5715; Gaz. vol. 155; p. 1002.
Bath-tub and lavatory fixture. E. G. Watrous. No. 975,662; Nov. 15; Sp. p. 3533; Gaz. vol. 160; p. 596.
Bath-tub cover. A. Messenger. No. 976,199; Nov. 22; Sp. p. 4653; Gaz. vol. 160; p. 801.
Bath-tub, Folding. L. F. O'Neill. No. 951,574; Mar. 8; Sp. p. 2254; Gaz. vol. 152; p. 391.
Bath-tub, Folding. R. L. Leo. No. 979,973; Dec. 27; Sp. p. 5520; Gaz. vol. 161; p. 953.
Bath-tub head-rest. A. Harrison. No. 977,950; Dec. 6; Sp. p. 1142; Gaz. vol. 161; p. 184.
Bath-tub-molding apparatus. T. S. Crane. No. 949,977; Feb. 22; Sp. p. 4626; Gaz. vol. 151; p. 826.
Bath-tub trap, waste and overflow pipe attachment. D. J. McIntyre. No. 952,081; Mar. 15; Sp. p. 3280; Gaz. vol. 152; p. 590.
Bath-tubs, Apparatus for molding undercut lugs on. T. S. Crane. No. 949,976; Feb. 22; Sp. p. 4624; Gaz. vol. 151; p. 825.
Bath-tubs, Bath or flesh brush attachment for. J. Booth. No. 964,843; July 19; Sp. p. 4033; Gaz. vol. 156; p. 671.
Bath wastes and overflows, Clean-out attachment for. E. Newsome. No. 976,593; Nov. 22; Sp. p. 5556; Gaz. vol. 160; p. 938.
Bath-water and the like, Apparatus for straining, aerating, filtering, and reheating. O. M. Row. No. 967,244; Aug. 16; Sp. p. 3033; Gaz. vol. 157; p. 525.
Baths, Hammock for douche and similar. G. L. H. Bürger. No. 975,016; Nov. 8; Sp. p. 2135; Gaz. vol. 160; p. 348.
Baths, Rose for shower-. H. Heldt. No. 977,389; Nov. 29; Sp. p. 7290; Gaz. vol. 160; p. 1238.
Bathing apparatus. G. W. Walters. No. 969,013; Aug. 30; Sp. p. 6753; Gaz. vol. 157; p. 1176.
Batteries and manufacture thereof, Negative plate for storage. P. G. Salom. No. 960,115; May 31; Sp. p. 7999; Gaz. vol. 154; p. 1344.
Batteries, Apparatus for filling dry. J. L. Heller. No. 958,394; May 17; Sp. p. 4359; Gaz. vol. 154; p. 711.
Batteries, &c., Connection for storage. L. H. Worne. No. 978,978; Dec. 20; Sp. p. 3369; Gaz. vol. 161; p. 592.
Batteries, Control for charging storage. F. W. Schmidt. No. 976,748; Nov. 22; Sp. p. 5847; Gaz. vol. 160; p. 990.
Batteries, Control for charging storage. F. W. Schmidt. No. 976,750; Nov. 22; Sp. p. 5850; Gaz. vol. 160; p. 991.
Batteries, Electrolyte for alkaline. W. Morrison. No. 976,277; Nov. 22; Sp. p. 4866; Gaz. vol. 160; p. 831.
Batteries, Grid for reversible galvanic. W. Morrison. No. 976,824; Nov. 22; Sp. p. 6018; Gaz. vol. 160; p. 1016.
Batteries, Making material for alkaline. W. Morrison. No. 976,279; Nov. 22; Sp. p. 4868; Gaz. vol. 160; p. 831.
Batteries, Manufacturing material for alkaline. W. Morrison. No. 976,278; Nov. 22; Sp. p. 4867; Gaz. vol. 160; p. 831.
Batteries, Rejuvenating storage. A. O. Tate. No. 949,506; Feb. 15; Sp. p. 3615; Gaz. vol. 151; p. 630.
Batteries, Rejuvenating storage. A. O. Tate. No. 949,507; Feb. 15; Sp. p. 3616; Gaz. vol. 151; p. 630.
Batteries, Treating cans of alkaline storage. T. A. Edison. No. 948,542; Feb. 8; Sp. p. 1600; Gaz. vol. 151; p. 282.
Batteries, Vent-tube for storage. M. Ekströmer. No. 971,737; Oct. 4; Sp. p. 481; Gaz. vol. 159; p. 83.
Batteries, Wood separator for secondary. L. H. Flanders. No. 963,216; July 5; Sp. p. 490; Gaz. vol. 156; p. 67.

Battery: *See* Alkaline battery; Electric battery; Fuse-battery; Galvanic battery; Primary battery; Secondary battery; Secondary or storage battery; Storage battery.
Battery and holder. G. L. Patterson. No. 964,687; July 19; Sp. p. 3715; Gaz. vol. 156; p. 618.
Battery-box. R. W. Magna. No. 948,111; Feb. 1; Sp. p. 689; Gaz. vol. 151; p. 112.
Battery-carrier. V. G. Apple. No. 971,876; Oct. 4; Sp. p. 776; Gaz. vol. 159; p. 135.
Battery cell, Electric-. M. E. Fuld. No. 960,222; May 31; Sp. p. 8203; Gaz. vol. 154; p. 1381.
Battery cell, Electric-. J. H. Gugler. No. 979,153; Dec. 20; Sp. p. 3786; Gaz. vol. 161; p. 655.
Battery-cell, Insulated. V. G. Apple. No. 954,370; Apr. 5; Sp. p. 1427; Gaz. vol. 153; p. 238.
Battery cells, Mechanical construction of storage-. P. Kennedy. No. 945,397; Jan. 4; Sp. p. 851; Gaz. vol. 150; p. 132.
Battery charging and discharging system. L. Fiedler. No. 957,321; May 10; Sp. p. 1787; Gaz. vol. 154; p. 312.
Battery-charging apparatus, Storage-. A. S. Krotz. No. 969,542; Sept. 6; Sp. p. 841; Gaz. vol. 158; p. 132.
Battery circuit controller and tester, Storage-. H. N. Motsinger. No. 972,210; Oct. 11; Sp. p. 1520; Gaz. vol. 159; p. 271.
Battery grid, Storage-. F. M. Michael. No. 969,387; Sept. 6; Sp. p. 506; Gaz. vol. 158; p. 81.
Battery-holder. R. W. Magna. No. 946,905; Jan. 18; Sp. p. 4272; Gaz. vol. 150; p. 702.
Battery-holder. C. T. Mason. No. 954,119; Apr. 5; Sp. p. 879; Gaz. vol. 153; p. 152.
Battery holder, Electric-. C. T. Mason. No. 952,268; Mar. 15; Sp. p. 3638; Gaz. vol. 152; p. 653.
Battery holder, Electrical-. H. Engel. No. 950,845; Mar. 1; Sp. p. 819; Gaz. vol. 152; p. 131.
Battery-holder system. G. L. Patterson. No. 953,640; Mar. 29; Sp. p. 6581; Gaz. vol. 152; p. 1175.
Battery indicator, Storage-. P. M. Marko. No. 964,994; July 19; Sp. p. 4334; Gaz. vol. 156; p. 723.
Battery jars, Machine for and process of forming linings for storage-. A. J. Meier. No. 962,714; June 28; Sp. p. 5238; Gaz. vol. 155; p. 914.
Battery plate, Primary-. A. O. Tate. No. 977,145; Nov. 29; Sp. p. 6789; Gaz. vol. 160; p. 1154.
Battery plate, Secondary-. W. Morrison. (Reissue.) No. 13,083; Feb. 15; Sp. p. 4112; Gaz. vol. 151; p. 713.
Battery plate, Secondary-. C. Busch. No. 968,119; Aug. 23; Sp. p. 4856; Gaz. vol. 157; p. 843.
Battery plate, Storage-. F. M. Holmes. No. 953,269; Mar. 29; Sp. p. 5790; Gaz. vol. 152; p. 1047.
Battery plate, Storage-. B. Ford. No. 977,443; Dec. 6; Sp. p. 29; Gaz. vol. 161; p. 8.
Battery plates, Preparation of secondary-. F. A. R. Wright. No. 956,919; May 3; Sp. p. 913; Gaz. vol. 154; p. 144.
Battery-receptacle and bell-support, Combined. J. L. Koerber. No. 962,033; June 21; Sp. p. 3729; Gaz. vol. 155; p. 655.
Battery separator, Storage-. E. M. Fitz. No. 963,284; July 5; Sp. p. 656; Gaz. vol. 156; p. 92.
Battery system, Combined primary and secondary. J. H. Gugler. No. 979,154; Dec. 20; Sp. p. 3788; Gaz. vol. 161; p. 656.
Battery system, Combined primary and secondary. J. H. Gugler. No. 979,155; Dec. 20; Sp. p. 3789; Gaz. vol. 161; p. 656.
Battery tank system. F. A. Decker. No. 971,597; Oct. 4; Sp. p. 187; Gaz. vol. 159; p. 34.
Battery temperature-controller. F. W. Schmidt. No. 976,747; Nov. 22; Sp. p. 5844; Gaz. vol. 160; p. 990.
Battery-transfer mechanism. T. V. Buckwalter. No. 969,154; Sept. 6; Sp. p. 7; Gaz. vol. 158; p. 4.
Battery-well. C. F. Massey. No. 951,192; Mar. 8; Sp. p. 1469; Gaz. vol. 152; p. 266.
Beam and trace connection. W. E. Lamb. No. 974,979; Nov. 8; Sp. p. 2062; Gaz. vol. 160; p. 336.
Beam clamp and hanger. R. Hankin and J. Mosner. No. 947,441; Jan. 25; Sp. p. 5428; Gaz. vol. 150; p. 909.
Beam construction, Trussed-. E. C. Covert. No. 976,436; Nov. 22; Sp. p. 5217; Gaz. vol. 160; p. 885.
Beam, Floor and ceiling. J. W. Vaughan. No. 960,740; June 7; Sp. p. 1012; Gaz. vol. 155; p. 170.
Beam structure, Composite. W. P. Francis. No. 957,048; May 3; Sp. p. 1181; Gaz. vol. 154; p. 187.
Bean-sorting machine. J. Q. Adams. No. 948,123; Feb. 1; Sp. p. 710; Gaz. vol. 151; p. 116.
Bearing. J. E. Sapp. No. 958,548; May 17; Sp. p. 4654; Gaz. vol. 154; p. 764.
Bearing. O. G. Cosby. No. 959,469; May 31; Sp. p. 6589; Gaz. vol. 154; p. 1124.
Bearing. C. L. Fowle. No. 962,629; June 28; Sp. p. 5059; Gaz. vol. 155; p. 884.
Bearing. H. B. Garman. No. 964,859; July 19; Sp. p. 4066; Gaz. vol. 156; p. 677.
Bearing. O. G. Cosby. No. 978,115; Dec. 6; Sp. p. 1494; Gaz. vol. 161; p. 241.
Bearing. A. T. Prescott. No. 978,202; Dec. 13; Sp. p. 1705; Gaz. vol. 161; p. 300.
Bearing. I. E. Palmer. No. 979,881; Dec. 27; Sp. p. 5337; Gaz. vol. 161; p. 924.
Bearing, Adjustable. M. Subber. No. 967,853; Aug. 16; Sp. p. 4268; Gaz. vol. 157; p. 730.
Bearing, Adjustable ball-. L. Mau. No. 951,194; Mar. 8; Sp. p. 1472; Gaz. vol. 152; p. 267.
Bearing and retainer therefor, Ball-. S. Schneider. No. 978,223; Dec. 13; Sp. p. 1744; Gaz. vol. 161; p. 307.
Bearing, Antifriction-. L. H. Seubert. No. 951,847; Mar. 15; Sp. p. 2821; Gaz. vol. 152; p. 514.
Bearing, Antifriction-. M. Gohlke and B. Eitner. No. 956,700; May 3; Sp. p. 438; Gaz. vol. 154; p. 70.
Bearing, Antifriction-. E. C. Chatham. No. 973,170; Oct. 18; Sp. p. 3682; Gaz. vol. 159; p. 631.
Bearing, Antifriction-. W. T. Newton. No. 978,392; Dec. 13; Sp. p. 2113; Gaz. vol. 161; p. 368.
Bearing, Antifriction-. E. S. Woods. No. 979,120; Dec. 20; Sp. p. 3706; Gaz. vol. 161; p. 642.
Bearing, Antifriction-. E. S. Woods. No. 979,727; Dec. 27; Sp. p. 4995; Gaz. vol. 161; p. 872.
Bearing, Antifrictional. A. Ponten. No. 954,464; Apr. 12; Sp. p. 1635; Gaz. vol. 153; p. 297.
Bearing, Ball-. E. B. Hess. No. 946,438; Jan. 11; Sp. p. 3226; Gaz. vol. 150; p. 518.
Bearing, Ball-. E. B. Hess. No. 946,439; Jan. 11; Sp. p. 3227; Gaz. vol. 150; p. 519.
Bearing, Ball-. H. Hess. No. 950,919; Mar. 1; Sp. p. 957; Gaz. vol. 152; p. 153.
Bearing, Ball-. H. Hess. No. 951,244; Mar. 8; Sp. p. 1570; Gaz. vol. 152; p. 282.
Bearing, Ball-. A Riebe. No. 955,286; Apr. 19; Sp. p. 3428; Gaz. vol. 153; p. 610.
Bearing, Ball-. H. Hess. No. 959,529; May 31; Sp. p. 6721; Gaz. vol. 154; p. 1144.
Bearing, Ball-. T. Partridge, Jr., J. Carr, and C. Gentle. No. 966,589; Aug. 9; Sp. p. 1628; Gaz. vol. 157; p. 277.
Bearing, Ball-. H. Hess. No. 967,124; Aug. 9; Sp. p. 2792; Gaz. vol. 157; p. 457.
Bearing, Ball-. H. Hess. No. 967,519; Aug. 16; Sp. p. 3609; Gaz. vol. 157; p. 619.
Bearing, Ball-. H. Hess. No. 967,520; Aug. 16; Sp. p. 3611; Gaz. vol. 157; p. 620.
Bearing, Ball-. O. von Schütz. No. 968,271; Aug. 23; Sp. p. 5204; Gaz. vol. 157; p. 896.
Bearing, Ball-. G. O. Leopold. No. 968,372; Aug. 23; Sp. p. 5399; Gaz. vol. 157; p. 931.
Bearing, Ball-. W. Sonnberg. No. 970,132; Sept. 13; Sp. p. 2113; Gaz. vol. 158; p. 360.
Bearing, Ball-. H. Hess. No. 975,616; Nov. 15; Sp. p. 3421; Gaz. vol. 160; p. 581.
Bearing cage, Ball-. B. Eitner. No. 980,082; Dec. 27; Sp. p. 5754; Gaz. vol. 161; p. 989.
Bearing, Center-. S. P. Bush. No. 967,721; Aug. 16; Sp. p. 4006; Gaz. vol. 157; p. 686.
Bearing, Center-. W. White. No. 976,326; Nov. 22; Sp. p. 4960; Gaz. vol. 160; p. 846.
Bearing, Centrifugal oiling-. F. A. Warren. No. 962,182; June 21; Sp. p. 4084; Gaz. vol. 155; p. 709.
Bearing, Combination roller-. C. S. Lockwood. No. 958,963; May 24; Sp. p. 5543; Gaz. vol. 154; p. 931.
Bearing, Combined roll and ball. C. S. Lockwood. No. 956,588; May 3; Sp. p. 176; Gaz. vol. 154; p. 30.
Bearing, Combined thrust and guide. O. Junggren. No. 974,392; Nov. 1; Sp. p. 699; Gaz. vol. 160; p. 106.
Bearing, Conical pivot-. A. F. Fletcher. No. 945,712; Jan. 4; Sp. p. 1505; Gaz. vol. 150; p. 235.
Bearing-cup, Adjustable. C. L. Jenness. No. 978,756; Dec. 13; Sp. p. 2900; Gaz. vol. 161; p. 490.
Bearing, Expansible. C. Van Middlesworth. No. 962,602; June 28; Sp. p. 5010; Gaz. vol. 155; p. 876.
Bearing-finder. R. Huntington. No. 961,862; June 21; Sp. p. 3379; Gaz. vol. 155; p. 598.
Bearing, Fluid-pressure thrust-. H. G. Reist. No. 949,989; Feb. 22; Sp. p. 4696; Gaz. vol. 151; p. 830.
Bearing for centrifugal machines. A. R. Robertson. No. 978,060; Dec. 6; Sp. p. 1374; Gaz. vol. 161; p. 220.
Bearing for centrifugal machines, Elastic collar-. C. H. Hackett and T. W. Morgan. No. 961,345; June 14; Sp. p. 2284; Gaz. vol. 155; p. 403.
Bearing for centrifugal machines, Resilient collar-. L. A. Bernard. No. 967,312; Aug. 16; Sp. p. 3164; Gaz. vol. 157; p. 547.
Bearing for conveying-rollers, Ball-. S. L. Goldman. No. 960,009; May 31; Sp. p. 7780; Gaz. vol. 154; p. 1309.
Bearing for pulleys, Self-oiling. C. M. Wheaton. No. 954,837; Apr. 12; Sp. p. 2502; Gaz. vol. 153; p. 423.
Bearing for railway-cars, Antifriction-. E. S. Woods. No. 979,119; Dec. 20; Sp. p. 3704; Gaz. vol. 161; p. 642.
Bearing for shafts, Roller-. T. F. Callahan. No. 950,433; Feb. 22; Sp. p. 5592; Gaz. vol. 151; p. 980.
Bearing for suspended shafts, Rotary. F. R. Barnheisel. No. 961,670; June 14; Sp. p. 2952; Gaz. vol. 155; p. 510.
Bearing for traverse-rings and the like, Ball-. F. L. Lathrop. No. 946,550; Jan. 18; Sp. p. 3463; Gaz. vol. 150; p. 582.
Bearing for trolley-wheels, Self-lubricating. A. M. Levering. No. 960,354; June 7; Sp. p. 237; Gaz. vol. 155; p. 40.
Bearing for twister spool-spindles. A. E. Rhoades. No. 951,548; Mar. 8; Sp. p. 2212; Gaz. vol. 152; p. 383.
Bearing, Guide-. E. W. Mix. No. 953,216; Mar. 29; Sp. p. 5672; Gaz. vol. 152; p. 1031.

Alphabetical list of inventions—Continued.

Bearing having grooved rolls and tension-band, Roller-. C. S. Lockwood. No. 977,458; Dec. 6; Sp. p. 65; Gaz. vol. 161; p. 13.
Bearing-roll with angular interspace. C. S. Lockwood. No. 950,110; Feb. 22; Sp. p. 4950; Gaz. vol. 151; p. 871.
Bearing rolls, Antifriction-cage for roller-. C. S. Lockwood. No. 961,303; June 14; Sp. p. 2170; Gaz. vol. 155; p. 388.
Bearing, Roller-. G. J. S. Collins. No. 951,177; Mar. 8; Sp. p. 1445; Gaz. vol. 152; p. 261.
Bearing, Roller-. G. Rennerfelt. No. 951,288; Mar. 8; Sp. p. 1671; Gaz. vol. 152; p. 296.
Bearing, Roller-. J. Ramslie. No. 952,358; Mar. 15; Sp. p. 3825; Gaz. vol. 152; p. 684.
Bearing, Roller-. H. C. Berry. No. 952,667; Mar. 22; Sp. p. 4501; Gaz. vol. 152; p. 818.
Bearing, Roller-. P. Massman. No. 953,789; Apr. 5; Sp. p. 212; Gaz. vol. 153; p. 39.
Bearing, Roller-. G. A. Brewer. No. 954,922; Apr. 12; Sp. p. 2701; Gaz. vol. 153; p. 456.
Bearing, Roller-. W. J. Brewer. No. 955,128; Apr. 19; Sp. p. 3088; Gaz. vol. 153; p. 555.
Bearing, Roller-. G. A. Carter. No. 955,848; Apr. 26; Sp. p. 4667; Gaz. vol. 153; p. 831.
Bearing, Roller-. W. J. Brewer. No. 958,586; May 17; Sp. p. 4729; Gaz. vol. 154; p. 777.
Bearing, Roller-. W. W. Dennis. No. 958,957; May 24; Sp. p. 5535; Gaz. vol. 154; p. 929.
Bearing, Roller-. J. F. Foster. No. 962,333; June 21; Sp. p. 4392; Gaz. vol. 155; p. 758.
Bearing, Roller-. J. H. K. Kirner. No. 967,934; Aug. 23; Sp. p. 4437; Gaz. vol. 157; p. 781.
Bearing, Roller-. J. Newmann. No. 969,763; Sept. 6; Sp. p. 1323; Gaz. vol. 158; p. 210.
Bearing, Roller-. W. B. Bary. No. 975,201; Nov. 8; Sp. p. 2555; Gaz. vol. 160; p. 413.
Bearing, Roller-. G. Rennerfelt. No. 977,128; Nov. 29; Sp. p. 6747; Gaz. vol. 160; p. 1148.
Bearing, Roller-. O. F. Zahn. No. 977,692; Dec. 6; Sp. p. 618; Gaz. vol. 161; p. 94.
Bearing, Roller-. E. L. Sharpneck. No. 978,496; Dec. 13; Sp. p. 2331; Gaz. vol. 161; p. 402.
Bearing, Roller-. H. Hess. No. 980,101; Dec. 27; Sp. p. 5804; Gaz. vol. 161; p. 996.
Bearing, Roller side. J. F. O'Connor. No. 946,261; Jan. 11; Sp. p. 2757; Gaz. vol. 150; p. 458.
Bearing, Roller side. P. N. Moore. No. 963,459; July 5; Sp. p. 997; Gaz. vol. 156; p. 150.
Bearing, Roller side. P. N. Moore. No. 963,460; July 5; Sp. p. 998; Gaz. vol. 156; p. 150.
Bearing, Self-contained roller-. C. S. Lockwood. No. 954,529; Apr. 12; Sp. p. 1779; Gaz. vol. 153; p. 319.
Bearing, Self-oiling. C. M. Wheaton. No. 954,836; Apr. 12; Sp. p. 2499; Gaz. vol. 153; p. 426.
Bearing, Shaft-. G. C. Hicks, Jr. No. 961,496; June 14; Sp. p. 2599; Gaz. vol. 155; p. 453.
Bearing, Shaft-. J. G. Callan. No. 974,119; Nov. 1; Sp. p. 24; Gaz. vol. 160; p. 7.
Bearing, Spindle step-. D. N. Wild. No. 972,743; Oct. 11; Sp. p. 2684; Gaz. vol. 159; p. 455.
Bearing, Step-. R. H. Rice. No. 974,186; Nov. 1; Sp. p. 175; Gaz. vol. 160; p. 31.
Bearing, Thrust-. A. Kingsbury. No. 947,242; Jan. 25; Sp. p. 4930; Gaz. vol. 150; p. 840.
Bearing, Thrust-. E. C. Ketchum. No. 961,140; June 14; Sp. p. 1811; Gaz. vol. 155; p. 329.
Bearing, Thrust-. O. Junggren. No. 963,155; July 5; Sp. p. 329; Gaz. vol. 156; p. 46.
Bearing, Thrust-. O. Junggren. No. 963,296; July 5; Sp. p. 674; Gaz. vol. 156; p. 95.
Bearing, Truck-. A. Franz. No. 960,532; June 7; Sp. p. 596; Gaz. vol. 155; p. 97.
Bearing, Wheel-. W. H. Arnold. No. 946,891; Jan. 18; Sp. p. 4234; Gaz. vol. 150; p. 697.
Bearing, Wheel-. H. B. Zerr. No. 968,911; Aug. 30; Sp. p. 6559; Gaz. vol. 157; p. 1142.
Bearing, Wheel-. L. S. Strepey. No. 971,417; Sept. 27; Sp. p. 4804; Gaz. vol. 158; p. 841.
Bearing with a plurality of cylindrical rollers, Thrust-. H. Brinkman. No. 947,368; Jan. 25; Sp. p. 5267; Gaz. vol. 150; p. 885.
Bearing with angular rolls, Roller-. C. S. Lockwood. No. 956,587; May 3; Sp. p. 174; Gaz. vol. 154; p. 30.
Bearing with combined thrust and bearing rolls, Roller-. C. S. Lockwood. No. 955,888; Apr. 26; Sp. p. 4777; Gaz. vol. 153; p. 845.
Bearing with self-adjusting casing, Ball-. C. S. Lockwood. No. 976,477; Nov. 22; Sp. p. 5302; Gaz. vol. 160; p. 899.
Bearing with transversely-divided rolls, Roller-. C. S. Lockwood. No. 964,286; July 12; Sp. p. 2737; Gaz. vol. 156; p. 452.
Bearings and the like, Manufacturing ball-. W. Dahlmann. No. 958,477; May 17; Sp. p. 4521; Gaz. vol. 154; p. 740.
Bearings, Cone-lock for ball-. J. J. Luckey. No. 950,071; Feb. 22; Sp. p. 4874; Gaz. vol. 151; p. 858.
Bearings, Journal-sleeve for roller-. C. I. Shirley and C. S. Lockwood. No. 964,322; July 12; Sp. p. 2808; Gaz. vol. 156; p. 463.
Bearings, Lubricating. C. R. Meston. No. 947,529; Jan. 25; Sp. p. 5644; Gaz. vol. 150; p. 938.
Bearings, Lubrication of thrust-. C. A. Parsons and J. Turnbull. No. 957,797; May 10; Sp. p. 2754; Gaz. vol. 154; p. 472.
Bearings, Self-adjusting casing for roller-. C. S. Lockwood. No. 958,143; May 17; Sp. p. 3696; Gaz. vol. 154; p. 624.
Bearings, Separator for antifriction-. F. E. Bright. No. 956,676; May 3; Sp. p. 369; Gaz. vol. 154; p. 61.
Bearings, Sleeve to guide the cages in roller-. C. S. Lockwood. No. 979,317; Dec. 20; Sp. p. 4120; Gaz. vol. 161; p. 710.
Bearings, Vibration-reducer for shaft-. L. N. Gooley. No. 954,859; Apr. 12; Sp. p. 2552; Gaz. vol. 153; p. 435.
Beater and mixer. W. H. Ashby. No. 959,420; May 24; Sp. p. 6460; Gaz. vol. 154; p. 1082.
Beater and scraper, Flexible. J. W. Kohlhepp. No. 971,049; Sept. 27; Sp. p. 4072; Gaz. vol. 158; p. 721.
Beater, Rotary. J. H. Pearson. No. 973,554; Oct. 25; Sp. p. 4494; Gaz. vol. 159; p. 784.
Beater, whipper, mixer, and masher for eggs, cream, vegetables, &c. W. Sturma. No. 946,169; Jan. 11; Sp. p. 2549; Gaz. vol. 150; p. 425.
Beating-engine used in the manufacture of paper. A. Masson and W. M. Wallace. No. 957,894; May 17; Sp. p. 2959; Gaz. vol. 154; p. 535.
Bed. F. M. Wilson and E. C. Brock. No. 948,120; Feb. 1; Sp. p. 705; Gaz. vol. 151; p. 115.
Bed. A. M. May. No. 949,655; Feb. 15; Sp. p. 3902; Gaz. vol. 151; p. 680.
Bed. A. L. Haley. No. 956,339; Apr. 26; Sp. p. 5754; Gaz. vol. 153; p. 1001.
Bed. G. W. Bent. No. 958,355; May 17; Sp. p. 4283; Gaz. vol. 154; p. 699.
Bed. A. F. Crandall. No. 972,099; Oct. 4; Sp. p. 1261; Gaz. vol. 159; p. 214.
Bed. L. E. Frye. No. 973,108; Oct. 18; Sp. p. 3518; Gaz. vol. 159; p. 608.
Bed. A. M. May. No. 974,287; Nov. 1; Sp. p. 472; Gaz. vol. 160; p. 69.
Bed, Adjustable. L. J. Gronde. No. 951,274; Mar. 8; Sp. p. 1641; Gaz. vol. 152; p. 292.
Bed, Adjustable. D. Hogan and C. W. Meinecke. No. 964,105; July 12; Sp. p. 2378; Gaz. vol. 156; p. 390.
Bed, Adjustable wardrobe-. R. E. Carlton. No. 947,730; Jan. 25; Sp. p. 6033; Gaz. vol. 150; p. 1005.
Bed and chair, Combined. F. G. Gale. No. 979,461; Dec. 27; Sp. p. 4409; Gaz. vol. 161; p. 780.
Bed and chair, Combined parlor. F. P. Anderson. No. 978,533; Dec. 13; Sp. p. 2406; Gaz. vol. 161; p. 415.
Bed and davenport, Combined. F. E. Joselin. No. 961,138; June 14; Sp. p. 1807; Gaz. vol. 155; p. 328.
Bed and douche pan. J. E. Gavin. No. 968,932; Aug. 30; Sp. p. 6600; Gaz. vol. 157; p. 1149.
Bed and table, Combined. E. Jenoi. No. 968,952; Aug. 30; Sp. p. 6637; Gaz. vol. 157; p. 1156.
Bed and the like, Sofa-. W. Prufrock. No. 952,635; Mar. 22; Sp. p. 4435; Gaz. vol. 152; p. 808.
Bed attachment. J. D. and H. E. Estes. No. 969,531; Sept. 6; Sp. p. 813; Gaz. vol. 158; p. 128.
Bed attachment or rest for invalids, Adjustable. G. M. Greaves. No. 947,383; Jan. 25; Sp. p. 5295; Gaz. vol. 150; p. 890.
Bed-bottom. C. Vallone. No. 946,173; Jan. 11; Sp. p. 2569; Gaz. vol. 150; p. 426.
Bed-bottom. W. A. Manchee. No. 958,266; May 17; Sp. p. 3947; Gaz. vol. 154; p. 664.
Bed-bottom. H. D. Sweinhagen and F. A. Theobald. No. 973,233; Oct. 18; Sp. p. 3818; Gaz. vol. 159; p. 652.
Bed-bottom fabric. W. H. Sleight. No. 969,568; Sept. 6; Sp. p. 893; Gaz. vol. 158; p. 142.
Bed-bottom, Spring. G. Mafera. No. 961,147; June 14; Sp. p. 1828; Gaz. vol. 155; p. 331.
Bed-bottom, Spring. E. V. Bair. No. 964,480; July 19; Sp. p. 3134; Gaz. vol. 156; p. 545.
Bed-bottom, Spring. J. Tóth, A. Beleznay, and J. Liptak. No. 972,040; Oct. 4; Sp. p. 1162; Gaz. vol. 159; p. 195.
Bed, Camping-. E. Lehmann. No. 947,472; Jan. 25; Sp. p. 5491; Gaz. vol. 150; p. 918.
Bed-clamp. C. F. Gooding. No. 958,246; May 17; Sp. p. 3909; Gaz. vol. 154; p. 658.
Bed, Combination-. W. Bubel. No. 948,411; Feb. 8; Sp. p. 1333; Gaz. vol. 151; p. 238.
Bed construction. J. F. Gail. No. 954,620; Apr. 12; Sp. p. 1973; Gaz. vol. 153; p. 350.
Bed, Convertible. M. D. Gavan. No. 953,687; Apr. 5; Sp. p. 17; Gaz. vol. 153; p. 6.
Bed, Cot-. C. H. Young. No. 956,018; Apr. 26; Sp. p. 5040; Gaz. vol. 153; p. 891.
Bed-couch. G. A. Lambert. No. 964,277; July 12; Sp. p. 2718; Gaz. vol. 156; p. 448.
Bed-couch, Folding. E. B. Millert. No. 977,529; Dec. 6; Sp. p. 263; Gaz. vol. 161; p. 38.
Bed-cover holder. H. K. Dial. No. 975,335; Nov. 8; Sp. p. 2825; Gaz. vol. 160; p. 457.
Bed-cover support. E. D. Peerstone. No. 951,618; Mar. 8; Sp. p. 2342; Gaz. vol. 152; p. 406.
Bed, Folding. G. F. Sisbower. No. 954,218; Apr. 5; Sp. p. 1123; Gaz. vol. 153; p. 186.

Bed, Folding. L. Stern. No. 956,219; Apr. 26; Sp. p. 5507; Gaz. vol. 153; p. 961.
Bed, Folding. J. Naugle. No. 957,240; May 10; Sp. p. 7604; Gaz. vol. 154; p. 283.
Bed, Folding. J. L. Tandy. No. 958,682; May 17; Sp. p. 4913; Gaz. vol. 154; p. 807.
Bed, Folding. L. A. Brownlee. No. 963,273; July 5; Sp. p. 628; Gaz. vol. 156; p. 88.
Bed, Folding. L. B. Jeffcott. No. 972,537; Oct. 11; Sp. p. 2226; Gaz. vol. 159; p. 385.
Bed, Folding. H. H. Carr. No. 974,747; Nov. 1; Sp. p. 1520; Gaz. vol. 160; p. 233.
Bed, Folding. H. B. Arnold. No. 977,696; Dec. 6; Sp. p. 628; Gaz. vol. 161; p. 95.
Bed, Folding. J. G. Friedel, Jr. No. 979,281; Dec. 20; Sp. p. 4057; Gaz. vol. 161; p. 698.
Bed for invalids. A. F. Crandall. No. 972,100; Oct. 4; Sp. p. 1264; Gaz. vol. 159; p. 214.
Bed-frame. J. Duke. No. 954,563; Apr. 12; Sp. p. 1850; Gaz. vol. 153; p. 331.
Bed-frame. E. J. Playfoot. No. 966,856; Aug. 9; Sp. p. 2223; Gaz. vol. 157; p. 365.
Bed-frame construction. F. I. Gould. No. 973,349; Oct. 18; Sp. p. 4048; Gaz. vol. 159; p. 693.
Bed-frame, Metal. F. B. French. No. 950,619; Mar. 1; Sp. p. 301; Gaz. vol. 152; p. 54.
Bed, Frameless spring-. T. A. B. Putnam. No. 959,164; May 24; Sp. p. 5970; Gaz. vol. 154; p. 998.
Bed, Hammock-. C. H. Young. No. 949,135; Feb. 15; Sp. p. 2858; Gaz. vol. 151; p. 505.
Bed, Hospital-. E. M. Heaton. No. 960,322; June 7; Sp. p. 160; Gaz. vol. 155; p. 30.
Bed, Hospital-. F. E. R. Jones and R. S. Barnum. No. 974,495; Nov. 1; Sp. p. 964; Gaz. vol. 160; p. 143.
Bed, Hospital or invalid's. J. G. Segesman and G. Binggeli. No. 970,357; Sept. 13; Sp. p. 2581; Gaz. vol. 158; p. 436.
Bed, Invalid-. R. L. Edgcombe. No. 945,449; Jan. 4; Sp. p. 949; Gaz. vol. 150; p. 149.
Bed, Invalid-. W. B. Sterling. No. 952,957; Mar. 22; Sp. p. 5105; Gaz. vol. 152; p. 916.
Bed, Invalid-. M. D. Gavan. No. 954,082; Apr. 5; Sp. p. 802; Gaz. vol. 153; p. 139.
Bed, Invalid-. L. W. Ward. No. 961,273; June 14; Sp. p. 2101; Gaz. vol. 155; p. 377.
Bed, Invalid-. J. B. Ford. No. 963,538; July 5; Sp. p. 1156; Gaz. vol. 156; p. 176.
Bed, Invalid-. J. M. Keller. No. 971,381; Sept. 27; Sp. p. 4745; Gaz. vol. 158; p. 829.
Bed, Invalid and like. H. S. Collier. No. 979,260; Dec. 20; Sp. p. 4019; Gaz. vol. 161; p. 691.
Bed joint, Metal-. F. W. Adams. No. 945,736; Jan. 11; Sp. p. 1611; Gaz. vol. 150; p. 273.
Bed movement, Shifting-rack. C. Backer. No. 952,973; Mar. 22; Sp. p. 5131; Gaz. vol. 152; p. 921.
Bed or cot, Invalid. G. McElveen. No. 945,282; Jan. 4; Sp. p. 573; Gaz. vol. 150; p. 94.
Bed or couch. W. J. Grotenhuis. No. 973,778; Oct. 25; Sp. p. 4963; Gaz. vol. 159; p. 863.
Bed or hammock, Swinging. A. T. Hallock. No. 979,157; Dec. 20; Sp. p. 3794; Gaz. vol. 161; p. 657.
Bed or seat, Spring. I. E. Palmer. No. 955,350; Apr. 19; Sp. p. 3571; Gaz. vol. 153; p. 632.
Bed, Ottoman-. C. J. Kindel. No. 978,032; Dec. 6; Sp. p. 1314; Gaz. vol. 161; p. 210.
Bed-pan. A. O. Jackson. No. 953,954; Apr. 5; Sp. p. 531; Gaz. vol. 153; p. 96.
Bed-pan. D. Hogan. No. 967,638; Aug. 16; Sp. p. 3835; Gaz. vol. 157; p. 658.
Bed-pan cushion. A. R. Logan and M. A. L. Barrelle. No. 967,533; Aug. 16; Sp. p. 3630; Gaz. vol. 157; p. 624.
Bed-pan, Elastic. F. M. Otis. No. 959,379; May 24; Sp. p. 6396; Gaz. vol. 154; p. 1069.
Bed-pan, Metallic. D. Saks. No. 978,940; Dec. 20; Sp. p. 3264; Gaz. vol. 161; p. 579.
Bed pillar or post. J. C. Wilson. No. 960,611; June 7; Sp. p. 756; Gaz. vol. 155; p. 125.
Bed-rail fastener. F. W. Merriweather. No. 953,480; Mar. 29; Sp. p. 6245; Gaz. vol. 152; p. 1120.
Bed, Recess-. R. H. Anderson. No. 950,362; Feb. 22; Sp. p. 5455; Gaz. vol. 151; p. 956.
Bed-rest, Invalid's. O. La Dow. No. 969,351; Sept. 6; Sp. p. 423; Gaz. vol. 158; p. 68.
Bed, Screen-. O. O. Richardson. No. 959,168; May 24; Sp. p. 5982; Gaz. vol. 154; p. 1000.
Bed, Settee-. C. J. Kindel. No. 966,841; Aug. 9; Sp. p. 2194; Gaz. vol. 157; p. 360.
Bed sheet and sheeting. C. C. Copeland and F. M. Bennet. No. 977,936; Dec. 6; Sp. p. 1115; Gaz. vol. 161; p. 178.
Bed, Sofa-. P. Thorbjornsen. No. 946,887; Jan. 18; Sp. p. 4228; Gaz. vol. 150; p. 696.
Bed, Sofa-. R. Deimel. No. 947,298; Jan. 25; Sp. p. 5088; Gaz. vol. 150; p. 859.
Bed, Sofa-. S. Karpen. No. 948,396; Feb. 8; Sp. p. 1298; Gaz. vol. 151; p. 233.
Bed, Sofa-. S. Karpen. No. 949,374; Feb. 15; Sp. p. 3354; Gaz. vol. 151; p. 587.
Bed, Sofa-. S. Karpen. No. 950,137; Feb. 22; Sp. p. 5005; Gaz. vol. 151; p. 880.
Bed, Sofa-. S. Karpen. No. 950,925; Mar. 1; Sp. p. 964; Gaz. vol. 152; p. 155.
Bed, Sofa-. S. Karpen. No. 951,531; Mar. 8; Sp. p. 2177; Gaz. vol. 152; p. 378.
Bed, Sofa-. J. Schwennesen. No. 956,190; Apr. 26; Sp. p. 5436; Gaz. vol. 153; p. 951.
Bed, Sofa-. S. Karpen. No. 956,972; May 3; Sp. p. 1035; Gaz. vol. 154; p. 162.
Bed, Sofa or davenport. E. M. Hulse. No. 971,008; Sept. 20; Sp. p. 3963; Gaz. vol. 158; p. 678.
Bed, Spring-. L. Clark. No. 945,911; Jan. 11; Sp. p. 2019; Gaz. vol. 150; p. 336.
Bed, Spring-. W. F. Ade. No. 977,253; Nov. 29; Sp. p. 7008; Gaz. vol. 160; p. 1192.
Bed-spring. E. Erickson. No. 947,332; Jan. 25; Sp. p. 5170; Gaz. vol. 150; p. 873.
Bed-spring. J. R. Hooker. No. 962,352; June 21; Sp. p. 4436; Gaz. vol. 155; p. 765.
Bed-spring. L. F. Schmitt. No. 966,365; Aug. 2; Sp. p. 1083; Gaz. vol. 157; p. 174.
Bed-spring. L. Downing. No. 974,758; Nov. 1; Sp. p. 1540; Gaz. vol. 160; p. 236.
Bed-spring. A. M. Sorey. No. 977,566; Dec. 6; Sp. p. 347; Gaz. vol. 161; p. 51.
Bed-spring. G. B. Smith. No. 979,042; Dec. 20; Sp. p. 3508; Gaz. vol. 161; p. 614.
Bed spring and frame. F. W. H. Weishaupt. No. 966,723; Aug. 9; Sp. p. 1905; Gaz. vol. 157; p. 322.
Bed-spring appliance. M. E. Wilder. No. 959,670; May 31; Sp. p. 7019; Gaz. vol. 154; p. 1192.
Bed-spring-attaching device. W. J. Lindemeyer. No. 948,613; Feb. 8; Sp. p. 1761; Gaz. vol. 151; p. 304.
Bed-spring-raising device. C. M. Schwab. No. 976,937; Nov. 29; Sp. p. 6309; Gaz. vol. 160; p. 1081.
Bed-spring-supporting frame. M. Sleeth. No. 969,501; Sept. 6; Sp. p. 744; Gaz. vol. 158; p. 117.
Bed-spring-supporting frame. W. F. Weppner. No. 971,867; Oct. 4; Sp. p. 762; Gaz. vol. 159; p. 132.
Bed-spring tightener. G. B. Elliott. No. 952,730; Mar. 22; Sp. p. 4632; Gaz. vol. 152; p. 839.
Bed-spring tightener. J. J. Tlustos. No. 963,663; July 5; Sp. p. 1395; Gaz. vol. 156; p. 218.
Bed-strap. J. S. Salinger. No. 973,977; Oct. 25; Sp. p. 5360; Gaz. vol. 159; p. 933.
Bed, table, and seat, Folding. G. A. Swanson. No. 972,484; Oct. 11; Sp. p. 2093; Gaz. vol. 159; p. 364.
Bed, Tent-. E. Lehmann. No. 947,341; Jan. 25; Sp. p. 5204; Gaz. vol. 150; p. 876.
Bed-tent. S. G. Wilson. No. 968,017; Aug. 23; Sp. p. 4630; Gaz. vol. 157; p. 809.
Bed, Tourist's. G. G. De Moss. No. 960,281; June 7; Sp. p. 82; Gaz. vol. 155; p. 18.
Bed, Uptilting. N. C. Merrill. No. 963,789; July 12; Sp. p. 1691; Gaz. vol. 156; p. 283.
Bed, Wall-. W. S. Jensen. No. 960,943; June 7; Sp. p. 1403; Gaz. vol. 155; p. 236.
Bed, Wall-. L. E. Fry. No. 966,898; Aug. 9; Sp. p. 2314; Gaz. vol. 157; p. 379.
Bed, Wall-. H. A. Javins. No. 974,065; Oct. 25; Sp. p. 5556; Gaz. vol. 159; p. 963.
Bed, Wheeling-. E. J. Leary. No. 964,527; July 19; Sp. p. 3256; Gaz. vol. 156; p. 561.
Bed, Window-. L. P. Armstrong. No. 971,016; Sept. 27; Sp. p. 3990; Gaz. vol. 158; p. 709.
Beds, Crib attachment for. R. J. Holt. No. 965,522; July 26; Sp. p. 5470; Gaz. vol. 156; p. 931.
Beds, Folding crib attachment for. T. R. Kemper. No. 973,439; Oct. 18; Sp. p. 4242; Gaz. vol. 159; p. 722.
Beds, Head and back rest for. J. S. Visger. No. 968,006; Aug. 23; Sp. p. 4608; Gaz. vol. 157; p. 806.
Beds, Leg-mounting for uptilting. N. C. Merrill. No. 972,462; Oct. 11; Sp. p. 2040; Gaz. vol. 159; p. 357.
Beds, Spring-frame for. J. W. Richardson. No. 951,427; Mar. 8; Sp. p. 1967; Gaz. vol. 152; p. 342.
Bedclothing-rest. M. E. L. Bergen. No. 958,718; May 24; Sp. p. 4987; Gaz. vol. 154; p. 844.
Bedclothes and the like, Filling for. L. J. Wolfe. No. 966,634; Aug. 9; Sp. p. 1714; Gaz. vol. 157; p. 292.
Bedclothes-fastener. L. T. Young. No. 950,712; Mar. 1; Sp. p. 547; Gaz. vol. 152; p. 86.
Bedclothes-holder. W. J. Lehr. No. 959,763; May 31; Sp. p. 7203; Gaz. vol. 154; p. 1223.
Bedclothes-holder. J. Campbell. No. 972,159; Oct. 11; Sp. p. 1414; Gaz. vol. 159; p. 254.
Bedstead. M. G. Merritt. No. 947,836; Feb. 1; Sp. p. 98; Gaz. vol. 151; p. 20.
Bedstead. O. R. Hunt. No. 948,054; Feb. 1; Sp. p. 574; Gaz. vol. 151; p. 92.
Bedstead. H. A. Sears. (Reissue.) No. 13,087; Mar. 1; Sp. p. 1288; Gaz. vol. 152; p. 211.
Bedstead. D. N. Garber. No. 958,107; May 17; Sp. p. 3624; Gaz. vol. 154; p. 611.
Bedstead. A. and R. Berg. No. 960,486; June 7; Sp. p. 494; Gaz. vol. 155; p. 82.
Bedstead. E. J. Robison. No. 964,812; July 19; Sp. p. 3970; Gaz. vol. 156; p. 660.
Bedstead attachment. J. E. Deweese. No. 948,416; Feb. 8; Sp. p. 1341; Gaz. vol. 151; p. 240.
Bedstead attachment. F. W. King. No. 957,422; May 10; Sp. p. 1998; Gaz. vol. 154; p. 345.
Bedstead canopy-frame, Metal-. O. Rudd. No. 977,552; Dec. 6; Sp. p. 313; Gaz. vol. 161; p. 46.

Alphabetical list of inventions—Continued.

Bedstead-corner. B. Shapiro. No. 947,858; Feb. 1; Sp. p. 168; Gaz. vol. 151; p. 28.
Bedstead, Extensible. C. F. Melander. No. 977,671; Dec. 6; Sp. p. 568; Gaz. vol. 161; p. 86.
Bedstead, Extension-. H. B. Arnold. No. 949,291; Feb. 15; Sp. p. 3166; Gaz. vol. 151; p. 558.
Bedstead, Folding. E. L. Elliott and W. H. Schroeder. No. 971,433; Sept. 27; Sp. p. 4831; Gaz. vol. 158; p. 845.
Bedstead-frames, Securing device for. C. Vallone and F. R. Rogers. No. 950,311; Feb. 22; Sp. p. 5365; Gaz. vol. 151; p. 942.
Bedstead, Invalid-. A. MacDonald. No. 969,174; Sept. 6; Sp. p. 64; Gaz. vol. 158; p. 11.
Bedstead, Metal. A. J. Logan and R. B. Harrison. No. 950,625; Mar. 1; Sp. p. 345; Gaz. vol. 152; p. 56.
Bedstead, Metal. R. F. Sawitzke, E. J. Yates, and J. M. Adams. No. 958,322; May 17; Sp. p. 4210; Gaz. vol. 154; p. 687.
Bedstead, Sofa-. M. Thomson. No. 972,293; Oct. 11; Sp. p. 1701; Gaz. vol. 159; p. 299.
Bedstead, Sofa-. C. A. Warner. No. 977,350; Nov. 29; Sp. p. 7201; Gaz. vol. 160; p. 1224.
Bedstead, Sofa-. R. Coopersmith. No. 978,270; Dec. 13; Sp. p. 1856; Gaz. vol. 161; p. 325.
Bedstead-spindles, Means for securing. J. C. Wilson. No. 959,093; May 24; Sp. p. 5818; Gaz. vol. 154; p. 975.
Bedsteads and the like, Attachment for. J. Taylor. No. 975,906; Nov. 15; Sp. p. 4021; Gaz. vol. 160; p. 678.
Bedsteads, Connection-fitting for. E. Vaughn. No. 965,769; July 26; Sp. p. 5988; Gaz. vol. 156; p. 1017.
Bedsteads, Shelf for. A. Krejci. No. 957,890; May 17; Sp. p. 2954; Gaz. vol. 154; p. 534.
Bee-hiving device. Z. A. Roberts and J. D. Hartwick. No. 973,702; Oct. 25; Sp. p. 4811; Gaz. vol. 159; p. 836.
Bee-trap. J. Nichols. No. 945,407; Jan. 4; Sp. p. 877; Gaz. vol. 150; p. 136.
Beehive. J. Toth. No. 945,642; Jan. 4; Sp. p. 1362; Gaz. vol. 150; p. 212.
Beehive. T. R. Runkle. No. 948,742; Feb. 8; Sp. p. 2043; Gaz. vol. 151; p. 349.
Beehive attachment. S. Blagg. No. 964,744; July 19; Sp. p. 3830; Gaz. vol. 156; p. 637.
Beehive attachment. S. Blagg. No. 976,031; Nov. 15; Sp. p. 4250; Gaz. vol. 160; p. 721.
Beehive-entrance guard and swarm-controller. G. T. Whitten. No. 956,615; May 3; Sp. p. 232; Gaz. vol. 154; p. 40.
Beehives, Non-swarming attachment for. H. Junge. No. 965,910; Aug. 2; Sp. p. 133; Gaz. vol. 157; p. 22.
Beef-cooler attachment. J. W. Ashworth. No. 950,628; Mar. 1; Sp. p. 352; Gaz. vol. 152; p. 57.
Beef-jack. A. B. Terril and M. Canning. No. 975,806; Nov. 15; Sp. p. 3824; Gaz. vol. 160; p. 644.
Beer and the like, Apparatus for chilling and carbonating. H. F. Stanley. No. 955,108; Apr. 12; Sp. p. 3037; Gaz. vol. 153; p. 515.
Beer-carbonating device. N. Ludwig. No. 972,883; Oct. 18; Sp. p. 2996; Gaz. vol. 159; p. 530.
Beer-case attachment. G. C. Kerkow. No. 970,237; Sept. 13; Sp. p. 2351; Gaz. vol. 158; p. 396.
Beer-case seal-lock. F. B. Williams. No. 968,222; Aug. 23; Sp. p. 5095; Gaz. vol. 157; p. 878.
Beer-cooler, Sanitary. P. H. Joyce. No. 964,270; July 12; Sp. p. 2699; Gaz. vol. 156; p. 445.
Beer-dispensing apparatus, W. A. Wentzell. No. 946,477; Jan. 11; Sp. p. 3309; Gaz. vol. 150; p. 532.
Beer-dispensing apparatus. A. D. Jones. No. 970,927; Sept. 20; Sp. p. 3817; Gaz. vol. 158; p. 651.
Beer filtration, Equalizing device for. F. Turek. No. 973,087; Oct. 18; Sp. p. 3475; Gaz. vol. 159; p. 600.
Beer, Producing a pale chill-proof. F. H. Wagemann. No. 949,011; Feb. 15; Sp. p. 2595; Gaz. vol. 151; p. 465.
Beer-reclaimer. J. H. Champ. No. 973,757; Oct. 25; Sp. p. 4916; Gaz. vol. 159; p. 855.
Beer-rod. M. W. Marsden and E. Dahn. No. 950,295; Feb. 22; Sp. p. 5334; Gaz. vol. 151; p. 935.
Beer-tap. W. P. Mahoney. No. 950,858; Mar. 1; Sp. p. 843; Gaz. vol. 152; p. 135.
Beet-digger. A. Clark. No. 971,253; Sept. 27; Sp. p. 4507; Gaz. vol. 158; p. 788.
Beet-flume cover. J. R. Lees. No. 973,442; Oct. 18; Sp. p. 4245; Gaz. vol. 159; p. 723.
Beet-lifter. A. Bourdeau. No. 954,610; Apr. 12; Sp. p. 1955; Gaz. vol. 153; p. 347.
Beet-topper. H. Catmull. No. 947,222; Jan. 25; Sp. p. 4889; Gaz. vol. 150; p. 834.
Beet-topper. M. Goodfellow. No. 950,909; Mar. 1; Sp. p. 938; Gaz. vol. 152; p. 150.
Beet topper and digger. J. J., Jr., and W. A. Devey. No. 975,218; Nov. 8; Sp. p. 2591; Gaz. vol. 160; p. 418.
Bell: *See* Dumb-bell.
Bell. J. R. Kidney. No. 950,396; Feb. 22; Sp. p. 5523; Gaz. vol. 151; p. 967.
Bell, Door-. W. R. Moore. No. 952,129; Mar. 15; Sp. p. 3377; Gaz. vol. 152; p. 607.
Bell, Electric signal-. H. W. Eden. No. 955,636; Apr. 19; Sp. p. 4198; Gaz. vol. 153; p. 730.
Bell, Electrically-operated. A. G. Wilson. No. 956,250; Apr. 26; Sp. p. 5567; Gaz. vol. 153; p. 971.
Bell-hammers, Construction of. H. W. Eden. No. 948,970; Feb. 8; Sp. p. 2496; Gaz. vol. 151; p. 425.
Bell-ringer. M. Jetté, A. Bellemare, E. Jette, and J. E. Carignan. No. 949,077; Feb. 15; Sp. p. 2730; Gaz. vol. 151; p. 486.
Bell-ringer. F. Simons. No. 961,544; June 14; Sp. p. 2702; Gaz. vol. 155; p. 469.
Bell-ringer, Automatic. C. Aalborg. No. 962,688; June 28; Sp. p. 5180; Gaz. vol. 155; p. 904.
Bell-ringer, Mechanical. G. J. Gollmar. No. 970,703; Sept. 20; Sp. p. 3351; Gaz. vol. 158; p. 575.
Bell-ringing mechanism. G. Boyd. No. 960,067; May 31; Sp. p. 7917; Gaz. vol. 154; p. 1329.
Bell, Signal-. E. P. Gray. No. 969,270; Sept. 6; Sp. p. 255; Gaz. vol. 158; p. 41.
Bell-support. P. C. Arnold. No. 956,664; May 3; Sp. p. 337; Gaz. vol. 154; p. 56.
Bell system. H. W. Herwig. No. 961,351; June 14; Sp. p. 2294; Gaz. vol. 155; p. 401.
Bellows-actuating mechanism. R. Lasrich. No. 956,982; May 3; Sp. p. 1057; Gaz. vol. 154; p. 165.
Bellows-like hydraulic and pneumatic machine and apparatus. P. Brandt. No. 968,642; Aug. 30; Sp. p. 5978; Gaz. vol. 157; p. 1051.
Bellows, Reversible. L. H. Maier. No. 959,771; May 31; Sp. p. 7218; Gaz. vol. 154; p. 1225.
Belly-rolling machine. E. R. Zehner. No. 976,113; Nov. 15; Sp. p. 4428; Gaz. vol. 160; p. 750.
Belt. G. W. Ream and P. E. Green. No. 958,538; May 17; Sp. p. 4634; Gaz. vol. 154; p. 761.
Belt. J. W. Foster and A. A. Stoddard. No. 962,563; June 28; Sp. p. 4929; Gaz. vol. 155; p. 863.
Belt. S. Gutman. No. 974,262; Nov. 1; Sp. p. 411; Gaz. vol. 160; p. 60.
Belt and hook uniter. R. R. Milas. No. 945,185; Jan. 4; Sp. p. 367; Gaz. vol. 150; p. 61.
Belt attachment. E. E. Nye. No. 948,792; Feb. 8; Sp. p. 2151; Gaz. vol. 151; p. 366.
Belt-clamp. F. B. Whitmore. No. 964,827; July 19; Sp. p. 3996; Gaz. vol. 156; p. 665.
Belt-clamp. A. Borup. No. 974,637; Nov. 1; Sp. p. 1279; Gaz. vol. 160; p. 196.
Belt-clasp. C. E. Smith. No. 953,927; Apr. 5; Sp. p. 484; Gaz. vol. 153; p. 88.
Belt, Conveyer-. M. C. Graney. No. 957,769; May 10; Sp. p. 2690; Gaz. vol. 154; p. 462.
Belt, Conveyer-. W. M. Metzler. No. 975,560; Nov. 15; Sp. p. 3312; Gaz. vol. 160; p. 562.
Belt, Conveyer-. C. S. Prosser. No. 979,200; Dec. 20; Sp. p. 3875; Gaz. vol. 161; p. 670.
Belt-driving mechanism. W. T. Henry. No. 947,408; Jan. 25; Sp. p. 5358; Gaz. vol. 150; p. 898.
Belt-fastener. C. O. L. Cardell. No. 949,519; Feb. 15; Sp. p. 3644; Gaz. vol. 151; p. 634.
Belt-fastener. M. Weixler. No. 965,777; July 26; Sp. p. 6006; Gaz. vol. 156; p. 1020.
Belt-fastener. M. Weixler. No. 965,778; July 26; Sp. p. 6007; Gaz. vol. 156; p. 1021.
Belt-fastener. J. H. Constantine and B. V. Tucker. No. 977,168; Nov. 29; Sp. p. 6844; Gaz. vol. 160; p. 1162.
Belt-fastener. I. Jackson. No. 978,025; Dec. 6; Sp. p. 1297; Gaz. vol. 161; p. 208.
Belt-fastening device. G. W. Southwick. No. 960,121; May 31; Sp. p. 8014; Gaz. vol. 154; p. 1346.
Belt-fastening device, Driving-. F. Mitchell and F. Gunn. No. 966,697; Aug. 9; Sp. p. 1834; Gaz. vol. 157; p. 313.
Belt-fastening machine. F. Rybář. No. 967,677; Aug. 16; Sp. p. 3909; Gaz. vol. 157; p. 670.
Belt for military or sporting use. H. H. Savage. No. 954,006; Apr. 5; Sp. p. 641; Gaz. vol. 153; p. 114.
Belt for traction-elevators, Multiple metallic. C. O. Pearson. No. 975,790; Nov. 15; Sp. p. 3791; Gaz. vol. 160; p. 639.
Belt for windows, Safety-. M. Miller. No. 971,062; Sept. 27; Sp. p. 4098; Gaz. vol. 158; p. 725.
Belt-guide. J. E. Fisher. No. 954,618; Apr. 12; Sp. p. 1967; Gaz. vol. 153; p. 349.
Belt-hooks, Mount for. J. C. Conn. No. 948,574; Feb. 8; Sp. p. 1675; Gaz. vol. 151; p. 292.
Belt-lacing machine. E. Toole. No. 967,083; Aug. 9; Sp. p. 2694; Gaz. vol. 157; p. 442.
Belt, Link. W. C. Brisse. No. 955,377; Apr. 19; Sp. p. 3631; Gaz. vol. 153; p. 640.
Belt-loop. F. O. Reichardt. No. 955,996; Apr. 26; Sp. p. 4995; Gaz. vol. 153; p. 883.
Belt-loop. J. L. Fredlihp. No. 980,175; Dec. 27; Sp. p. 6000; Gaz. vol. 161; p. 1021.
Belt or truss, Supporting. H. L. Benner. No. 966,787; Aug. 9; Sp. p. 2071; Gaz. vol. 157; p. 344.
Belt pin or buckle. L. Hauser. No. 959,340; May 24; Sp. p. 6322; Gaz. vol. 154; p. 1057.
Belt, Power-transmission. P. F. W. C. Krippendorf. No. 949,124; Feb. 15; Sp. p. 2837; Gaz. vol. 151; p. 501.
Belt-protector. A. A. Ellis. No. 974,780; Nov. 8; Sp. p. 1593; Gaz. vol. 160; p. 268.
Belt-rack. R. L. Smith. No. 949,553; Feb. 15; Sp. p. 3715; Gaz. vol. 151; p. 646.
Belt-regulator. W. O. Wakefield. No. 977,764; Dec. 6; Sp. p. 764; Gaz. vol. 161; p. 118.
Belt-shifter. T. Allsop and W. W. Sibson. No. 948,622; Feb. 8; Sp. p. 1790; Gaz. vol. 151; p. 307.

Alphabetical list of inventions—Continued.

Belt-shifter. I. W. Litchfield. No. 961,417; June 14; Sp. p. 2409; Gaz. vol. 155; p. 426.
Belt-shifter. G. C. Smith and O. A. Kraft. No. 964,127; July 12; Sp. p. 2424; Gaz. vol. 156; p. 397.
Belt-shifter. A. P. Redden. No. 967,673; Aug. 16; Sp. p. 3903; Gaz. vol. 157; p. 669.
Belt-shifter. B. M. W. Hanson. No. 975,356; Nov. 8; Sp. p. 2870; Gaz. vol. 160; p. 463.
Belt-shifter and gear-stop, Combined. T. Allsop and W. W. Sibson. No. 948,948; Feb. 8; Sp. p. 2450; Gaz. vol. 151; p. 417.
Belt shifter and tightener. H. A. Perkins. No. 964,051; July 12; Sp. p. 2262; Gaz. vol. 156; p. 372.
Belt-shifting mechanism. E. Hixon and P. D. Murrin. No. 976,655; Nov. 22; Sp. p. 5681; Gaz. vol. 160; p. 960.
Belt-strap, Detachable. C. E. Winquest. No. 953,884; Apr. 5; Sp. p. 397; Gaz. vol. 153; p. 72.
Belt-stretcher. D. Rudy, Jr. No. 960,201; May 31; Sp. p. 8165; Gaz. vol. 154; p. 1374.
Belt-stretcher. C. Cyr. No. 973,008; Oct. 18; Sp. p. 3306; Gaz. vol. 159; p. 575.
Belt-stretcher. F. Thomas. No. 979,599; Dec. 27; Sp. p. 4718; Gaz. vol. 161; p. 828.
Belt support and shifter, Driving-. R. W. Walker. No. 972,955; Oct. 18; Sp. p. 3197; Gaz. vol. 159; p. 556.
Belt, Supporting-. M. E. Williams. No. 971,946; Oct. 4; Sp. p. 965; Gaz. vol. 159; p. 162.
Belt-tightener. J. H. Hey. No. 945,326; Jan. 4; Sp. p. 708; Gaz. vol. 150; p. 109.
Belt-tightener. M. Meiers. No. 954,001; Apr. 5; Sp. p. 633; Gaz. vol. 153; p. 113.
Belt-tightener. L. White. No. 959,667; May 31; Sp. p. 7016; Gaz. vol. 154; p. 1191.
Belt-tightener. A. F. Kwis. No. 960,347; June 7; Sp. p. 221; Gaz. vol. 155; p. 38.
Belt-tightener. H. A. Perkins. No. 961,005; June 7; Sp. p. 1542; Gaz. vol. 155; p. 258.
Belt-tightener. J. G. Martin. No. 969,968; Sept. 13; Sp. p. 1790; Gaz. vol. 158; p. 304.
Belt-tightening device. M. J. Stauffer. No. 948,078; Feb. 1; Sp. p. 625; Gaz. vol. 151; p. 101.
Belt, Transmission-. A. H. Gits. No. 979,151; Dec. 20; Sp. p. 3781; Gaz. vol. 161; p. 654.
Belt, Waist-. D. Marinsky. No. 971,766; Oct. 4; Sp. p. 537; Gaz. vol. 159; p. 94.
Belting. V. K. Sturges. No. 965,250; July 26; Sp. p. 4851; Gaz. vol. 156; p. 838.
Belting. J. W. Hilton. No. 967,379; Aug. 16; Sp. p. 3298; Gaz. vol. 157; p. 571.
Bench: *See* Folding bench; Greenhouse-bench; Husking-bench; Jeweler's bench; Manual-training bench; Piano-bench; Plant-bench.
Bench-clamp. R. J. Colwell. No. 945,914; Jan. 11; Sp. p. 2026; Gaz. vol. 150; p. 337.
Bench-clamp. D. A. Anderson. No. 977,695; Dec. 6; Sp. p. 627; Gaz. vol. 161; p. 95.
Bench-dog. W. J. Stiver. No. 960,053; May 31; Sp. p. 7890; Gaz. vol. 154; p. 1325.
Bench-dog. T. W. McCormick. No. 979,528; Dec. 27; Sp. p. 4550; Gaz. vol. 161; p. 803.
Bench-dog, Adjustable. J. Fletcher. No. 972,610; Oct. 11; Sp. p. 2401; Gaz. vol. 159; p. 410.
Bench-hook. H. R. Mitchell. No. 960,369; June 7; Sp. p. 269; Gaz. vol. 155; p. 46.
Bench-key, Multiple. F. R. Cunningham. No. 966,529; Aug. 9; Sp. p. 1497; Gaz. vol. 157; p. 257.
Bench mold, Greenhouse-. F. C. McCaslin. No. 974,685; Nov. 1; Sp. p. 1376; Gaz. vol. 160; p. 214.
Bench plug or stop, Carpenter's-. G. F. Zaun. No. 967,287; Aug. 16; Sp. p. 3111; Gaz. vol. 157; p. 539.
Bench-stop. A. D. Goodell. No. 974,482; Nov. 1; Sp. p. 942; Gaz. vol. 160; p. 139.
Bench stop and clamp. W. R. McCoy. No. 978,918; Dec. 20; Sp. p. 3213; Gaz. vol. 161; p. 570.
Bench-stop, Carpenter's. A. G. Merkell. No. 968,866; Aug. 30; Sp. p. 6461; Gaz. vol. 157; p. 1125.
Bench-tool, Adjustable. F. O. Schalkle. No. 960,415; June 7; Sp. p. 361; Gaz. vol. 155; p. 61.
Bending and straightening machine. J. Olson. No. 963,636; July 5; Sp. p. 1352; Gaz. vol. 156; p. 210.
Bending-dies. B. J. Edema. No. 950,167; Feb. 22; Sp. p. 5075; Gaz. vol. 151; p. 891.
Bending-machine. J. Schlosser and A. W. Christian. No. 950,212; Feb. 22; Sp. p. 5171; Gaz. vol. 151; p. 907.
Bending-machine. T. H. Kane. No. 957,609; May 10; Sp. p. 2348; Gaz. vol. 154; p. 409.
Bending-machine. F. J. Fisher. No. 966,678; Aug. 9; Sp. p. 1795; Gaz. vol. 157; p. 307.
Bending-machine. J. H. Kimbell. No. 973,279; Oct. 18; Sp. p. 3899; Gaz. vol. 159; p. 667.
Bending-machine. E. T. Palmenberg. No. 975,787; Nov. 15; Sp. p. 3786; Gaz. vol. 160; p. 637.
Bending-machine. J. Kellner. No. 979,962; Dec. 27; Sp. p. 5495; Gaz. vol. 161; p. 950.
Bending machinery. J. F. Gail. No. 957,202; May 10; Sp. p. 1518; Gaz. vol. 154; p. 269.
Berry-box. P. Henrich. No. 972,696; Oct. 11; Sp. p. 2575; Gaz. vol. 159; p. 438.
Berry-box, Folding. W. W. Wood. No. 962,607; June 28; Sp. p. 5016; Gaz. vol. 155; p. 877.
Berry-stem remover. W. E. Urschel. No. 949,454; Feb. 15; Sp. p. 3509; Gaz. vol. 151; p. 613.
Berth and chair, Sleeping-car. F. J. Leigh. No. 967,137; Aug. 9; Sp. p. 2812; Gaz. vol. 157; p. 461.
Berth for infants, Collapsible. W. J. Temple. No. 972,732; Oct. 11; Sp. p. 2666; Gaz. vol. 159; p. 452.
Berth-guard. M. Schlesinger. No. 945,421; Jan. 4; Sp. p. 902; Gaz. vol. 150; p. 140.
Berth, Sleeping-car. L. J. Berg. No. 948,128; Feb. 1; Sp. p. 717; Gaz. vol. 151; p. 118.
Berths, Curtain attachment for sleeping-car. J. W. Winn. No. 946,417; Jan. 11; Sp. p. 3182; Gaz. vol. 150; p. 511.
Beveling-machine. A. H. Prenzel. No. 965,744; July 26; Sp. p. 5926; Gaz. vol. 156; p. 1009.
Beverage cooling and dispensing device. E. L. Boerner. No. 949,211; Feb. 15; Sp. p. 2994; Gaz. vol. 151; p. 531.
Beverages, Preparation of. G. Defren. No. 960,841; June 7; Sp. p. 1218; Gaz. vol. 155; p. 203.
Beverages, System for cooling and dispensing. M. W. Marsden. No. 968,378; Aug. 23; Sp. p. 5411; Gaz. vol. 157; p. 934.
Bias-band folder. I. L. Yost. No. 945,432; Jan. 4; Sp. p. 922; Gaz. vol. 150; p. 144.
Bib-relief, Safety compression. J. J. Divekey. No. 970,192; Sept. 13; Sp. p 2238; Gaz. vol. 158; p. 381.
Bicycle. R. M. Franklin. No. 958,618; May 17; Sp. p. 4791; Gaz. vol. 154; p. 787.
Bicycle and motor-cycle holder. W. A. Settle. No. 948,349; Feb. 8; Sp. p. 1185; Gaz. vol. 151; p. 217.
Bicycle attachment. G. T. Sampson. No. 947,945; Feb. 1; Sp. p. 352; Gaz. vol. 151; p. 57.
Bicycle attachment. J. H. Clark. No. 963,730; July 5; Sp. p. 1560; Gaz. vol. 156; p. 240.
Bicycle brake-controlling device. B. Péducasse. No. 952,349; Mar. 15; Sp. p. 3804; Gaz. vol. 152; p. 681.
Bicycle-carrier. C. M. Starr. No. 975,085; Nov. 8; Sp. p. 2278; Gaz. vol. 160; p. 372.
Bicycle-chain-adjusting means. G. Kindermans. No. 974,573; Nov. 1; Sp. p. 1146; Gaz. vol. 160; p. 173.
Bicycle-crank. T. Reynolds. No. 977,900; Dec. 6; Sp. p. 1047; Gaz. vol. 161; p. 166.
Bicycle-fork. L. H. Cobb. No. 963,992; July 12; Sp. p. 2148; Gaz. vol. 156; p. 351.
Bicycle-fork. J. Schmidt. No. 973,219; Oct. 18; Sp. p. 3789; Gaz. vol. 159; p. 647.
Bicycle-frame. A. Levedahl. No. 946,143; Jan. 11; Sp. p. 2482; Gaz. vol. 150; p. 414.
Bicycle-lock. F. Conta. No. 947,073; Jan. 18; Sp. p. 4586; Gaz. vol. 150; p. 757.
Bicycle-lock. C. H. Myers. No. 977,533; Dec. 6; Sp. p. 272; Gaz. vol. 161; p. 39.
Bicycle-lock. E. E. Eggleston. No. 979,453; Dec. 27; Sp. p. 4392; Gaz. vol. 161; p. 777.
Bicycle, Marine. C. F. and R. C. Krause. No. 956,533; May 3; Sp. p. 53; Gaz. vol. 154; p. 11.
Bicycle-saddle. A. F. Lang. No. 951,014; Mar. 1; Sp. p. 1131; Gaz. vol. 152; p. 183.
Bicycle-seat. F. M. Fleming. No. 969,096; Aug. 30; Sp. p. 6922; Gaz. vol. 157; p. 1205.
Bicycle-seat, Child's. W. H. Martin. No. 975,973; Nov. 15; Sp. p. 4150; Gaz. vol. 160; p. 702.
Bicycle-shade. L. and J. Cooper. No. 972,063; Oct. 4; Sp. p. 1203; Gaz. vol. 159; p. 203.
Bicycle shock-absorbing attachment. C. A. Redmond. No. 973,071; Oct. 18; Sp. p. 3438; Gaz. vol. 159; p. 595.
Bicycle spring-fork. L. H. Cobb. No. 963,993; July 12; Sp. p. 2150; Gaz. vol. 156; p. 351.
Bicycle spring-fork. L. E. Draper. No. 974,365; Nov. 1; Sp. p. 656; Gaz. vol. 160; p. 98.
Bicycle steering device. R. P. Noble. No. 973,806; Oct. 25; Sp. p. 5019; Gaz. vol. 159; p. 872.
Bicycle-support. H. P. Price. No. 945,284; Jan. 4; Sp. p. 579; Gaz. vol. 150; p. 95.
Bicycle-support. J. P. Taylor. No. 969,920; Sept. 13; Sp. p. 1678; Gaz. vol. 158; p. 289.
Bicycles and the like, Package-carrier for. H. G. Brott. No. 965,436; July 26; Sp. p. 5264; Gaz. vol. 156; p. 901.
Bicycles, Crank-shaft and crank-shaft bearing for. W. L. Lowrance. No. 951,137; Mar. 8; Sp. p. 1370; Gaz. vol. 152; p. 249.
Bicycles, Mounting of saddles upon. W. J. Welch. No. 960,467; June 7; Sp. p. 449; Gaz. vol. 155; p. 76.
Bicycles, Pivoted lug for the back forks of. C. M. Cosset. No. 972,510; Oct. 11; Sp. p. 2162; Gaz. vol. 159; p. 375.
Bicycles, &c., Support for. K. and F. Duve. No. 947,379; Jan. 25; Sp. p. 5288; Gaz. vol. 150; p. 888.
Bifocal testing-frame. H. I. Cowan. No. 980,070; Dec. 27; Sp. p. 5734; Gaz. vol. 161; p. 986.
Bifurcating-machine. R. L. Wilcox. No. 955,373; Apr. 19; Sp. p. 3622; Gaz. vol. 153; p. 639.
Bill. J. C. Bell. No. 971,106; Sept. 27; Sp. p. 4189; Gaz. vol. 158; p. 739.
Bill-board. J. B. Grant. No. 977,862; Dec. 6; Sp. p. 962; Gaz. vol. 161; p. 152.
Bill-filing cabinet. G. Jacobs. No. 966,448; Aug. 9; Sp. p. 1273; Gaz. vol. 157; p. 229.
Bill-fold. I. Barnett. No. 972,494; Oct. 11; Sp. p. 2119; Gaz. vol. 159; p. 369.
Bill-holder and coin-purse. D. O. Snyder. No. 979,806; Dec. 27; Sp. p. 5184; Gaz. vol. 161; p. 899.

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Billing and journal sheet, Combined. J. W. Hartley. No. 945,527; Jan. 4; Sp. p. 1126; Gaz. vol. 150; p. 173.
Billet-piercing machine. J. D. Adams. No. 971,512; Oct. 4; Sp. p. 1; Gaz. vol. 159; p. 3.
Billiard-bridge. J. N. McIntire. No. 968,187; Aug. 23; Sp. p. 5026; Gaz. vol. 157; p. 866.
Billiard-cue. C. Ransom. No. 951,453; Mar. 8; Sp. p. 2022; Gaz. vol. 152; p. 350.
Billiard-cue. J. Baeumle. No. 951,790; Mar. 15; Sp. p. 2712; Gaz. vol. 152; p. 495.
Billiard-cue. O. D. Bloom and J. H. Hill. No. 970,172; Sept. 13; Sp. p. 2198; Gaz. vol. 158; p. 374.
Billiard-cue-chalk holder. L. F. Dahl. No. 965,444; July 26; Sp. p. 5284; Gaz. vol. 156; p. 904.
Billiard-cue-chalking device. J. C. Morrison. No. 948,114; Feb. 1; Sp. p. 694; Gaz. vol. 151; p. 113.
Billard-cue powderer. H. Nahm. No. 960,574; June 7; Sp. p. 690; Gaz. vol. 155; p. 113.
Billiard-cue rack. R. B. Spikes. No. 972,277; Oct. 11; Sp. p. 1672; Gaz. vol. 159; p. 294.
Billiard-cue tip. A. L. Buckland. No. 952,600; Mar. 22; Sp. p. 4357; Gaz. vol. 152; p. 795.
Billiard or pool balls, Manufacturing. A. Burt. No. 979,397; Dec. 20; Sp. p. 4267; Gaz. vol. 161; p. 734.
Billiard-table. K. A. A. Bracher. No. 949,563; Feb. 15; Sp. p. 3743; Gaz. vol. 151; p. 650.
Billiard-table. Convertible sofa. J. N. McIntire. No. 954,757; Apr. 12; Sp. p. 2306; Gaz. vol. 153; p. 399.
Billiard-table cushion. G. Victor. No. 951,410; Mar. 8; Sp. p. 1939; Gaz. vol. 152; p. 336.
Billiard-table, pool-table, &c. H. G. Barrett. No. 945,150; Jan. 4; Sp. p. 291; Gaz. vol. 150; p. 50.
Billiard-table registering device. G. C. Pollay. No. 956,599; May 3; Sp. p. 198; Gaz. vol. 154; p. 34.
Billiard-table tops and the like, Portable stand for. E. S. Rayner. No. 963,651; July 5; Sp. p. 1379; Gaz. vol. 156; p. 214.
Billiard-tables, Apparatus for stretching cloth on. A. M. Hubert-Brierre. No. 976,570; Nov. 22; Sp. p. 5508; Gaz. vol. 160; p. 931.
Bin: *See* Flour-bin; Grain-bin; Knockdown bin; Measuring-bin.
Bin. F. J. McMenamin. No. 973,368; Oct. 18; Sp. p. 4093; Gaz. vol. 159; p. 699.
Bin. W. R. Leibe and A. P. Bonnaffons. No. 977,318; Nov. 29; Sp. p. 7124; Gaz. vol. 160; p. 1212.
Binder. H. S. Jones. No. 946,902; Jan. 18; Sp. p. 4267; Gaz. vol. 150; p. 701.
Binder. L. E. Heller. No. 962,568; June 28; Sp. p. 4938; Gaz. vol. 155; p. 865.
Binder. A. I. and C. C. Syverson. No. 966,268; Aug. 2; Sp. p. 900; Gaz. vol. 157; p. 144.
Binder. E. A. Trussell. No. 969,923; Sept. 13; Sp. p. 1683; Gaz. vol. 158; p. 290.
Binder and leaves. E. C. Holland. No. 949,959; Feb. 22; Sp. p. 4585; Gaz. vol. 151; p. 819.
Binder and punch, Loose-leaf. J. S. McComb. No. 947,976; Feb. 1; Sp. p. 416; Gaz. vol. 151; p. 66.
Binder attachment. J. D. Roberts. No. 949,911; Feb. 22; Sp. p. 4494; Gaz. vol. 151; p. 802.
Binder ball-lock, Sectional post-. P. A. Bowen. No. 962,416; June 28; Sp. p. 4585; Gaz. vol. 155; p. 811.
Binder, Bill-book and record. O. C. Manteufel. No. 953,046; Mar. 29; Sp. p. 5288; Gaz. vol. 152; p. 974.
Binder, File-. J. C. Dawson. No. 966,808; Aug. 9; Sp. p. 2116; Gaz. vol. 157; p. 350.
Binder-frame. L. P. Dixon. No. 968,138; Aug. 23; Sp. p. 4895; Gaz. vol. 157; p. 850.
Binder-hitch. J. Rutz. No. 979,709; Dec. 27; Sp. p. 4935; Gaz. vol. 161; p. 865.
Binder, Leaf-. H. G. Buchan. No. 969,936; Sept. 13; Sp. p. 1706; Gaz. vol. 158; p. 294.
Binder, Ledger-. W. S. Mendenhall and C. E. Stebbins. No. 948,578; Feb. 8; Sp. p. 1684; Gaz. vol. 151; p. 293.
Binder lock, Loose-leaf-. L. R. Dickerson. No. 964,765; July 19; Sp. p. 3882; Gaz. vol. 156; p. 644.
Binder, Loose-leaf. A. Benson. No. 945,681; Jan. 4; Sp. p. 1442; Gaz. vol. 150; p. 225.
Binder, Loose-leaf. R. J. Copeland and A. E. Chatterson. No. 945,916; Jan. 11; Sp. p. 2030; Gaz. vol. 150; p. 338.
Binder, Loose-leaf. C. F. Hudnall. No. 947,911; Feb. 1; Sp. p. 277; Gaz. vol. 151; p. 46.
Binder, Loose-leaf. F. G. Eichorn. No. 948,502; Feb. 8; Sp. p. 1527; Gaz. vol. 151; p. 269.
Binder, Loose-leaf. A. Benson. No. 949,143; Feb. 15; Sp. p. 2874; Gaz. vol. 151; p. 508.
Binder, Loose-leaf. L. E. Shipman. No. 950,247; Feb. 22; Sp. p. 5243; Gaz. vol. 151; p. 920.
Binder, Loose-leaf. J. C. Dawson. No. 950,613; Mar. 1; Sp. p. 315; Gaz. vol. 152; p. 51.
Binder, Loose-leaf. J. C. Dawson. No. 950,614; Mar. 1; Sp. p. 316; Gaz. vol. 152; p. 52.
Binder, Loose-leaf. J. L. Leslie. No. 950,769; Mar. 1; Sp. p. 664; Gaz. vol. 152; p. 106.
Binder, Loose-leaf. M. C. Neuner. No. 951,544; Mar. 8; Sp. p. 2196; Gaz. vol. 152; p. 382.
Binder, Loose-leaf. A. Trini. No. 954,063; Apr. 5; Sp. p. 765; Gaz. vol. 153; p. 133.
Binder, Loose-leaf. C. L. Bartling. No. 955,307; Apr. 19; Sp. p. 3475; Gaz. vol. 153; p. 617.
Binder, Loose-leaf. T. Brazil-Dineen. No. 956,278; Apr. 26; Sp. p. 5621; Gaz. vol. 153; p. 981.
Binder, Loose-leaf. R. H. Barlow and P. Barton. No. 956,509; May 3; Sp. p. 7; Gaz. vol. 154; p. 4.
Binder, Loose-leaf. T. Brazil-Dineen. No. 957,649; May 10; Sp. p. 2441; Gaz. vol. 154; p. 422.
Binder, Loose-leaf. J. C. Dawson. No. 958,099; May 17; Sp. p. 3610; Gaz. vol. 154; p. 608.
Binder, Loose-leaf. W. S. Proudfit, Jr. No. 958,171; May 17; Sp. p. 3755; Gaz. vol. 154; p. 634.
Binder, Loose-leaf. M. G. Griffin. No. 958,633; May 17; Sp. p. 4820; Gaz. vol. 154; p. 791.
Binder, Loose-leaf. A. L. Murphy, Sr. No. 960,674; June 7; Sp. p. 888; Gaz. vol. 155; p. 147.
Binder, Loose-leaf. W. C. Traher. No. 962,868; June 28; Sp. p. 5545; Gaz. vol. 155; p. 969.
Binder, Loose-leaf. H. A. Kretschmer. No. 963,780; July 12; Sp. p. 1672; Gaz. vol. 156; p. 279.
Binder, Loose-leaf. G. H. Robinson. No. 964,811; July 19; Sp. p. 3967; Gaz. vol. 156; p. 659.
Binder, Loose-leaf. J. C. Dawson. No. 965,373; July 26; Sp. p. 5124; Gaz. vol. 156; p. 879.
Binder, Loose-leaf. J. C. Dawson. No. 966,806; Aug. 9; Sp. p. 2114; Gaz. vol. 157; p. 350.
Binder, Loose-leaf. J. C. Dawson. No. 967,336; Aug. 16; Sp. p. 3216; Gaz. vol. 157; p. 557.
Binder, Loose-leaf. H. C. Miller. No. 967,537; Aug. 16; Sp. p. 3635; Gaz. vol. 157; p. 625.
Binder, Loose-leaf. H. C. Miller. No. 967,538; Aug. 16; Sp. p. 3637; Gaz. vol. 157; p. 625.
Binder, Loose-leaf. W. G. Baldwin. No. 967,705; Aug. 16; Sp. p. 3962; Gaz. vol. 157; p. 680.
Binder, Loose-leaf. B. S. Hubbard. No. 971,007; Sept. 20; Sp. p. 3962; Gaz. vol. 158; p. 678.
Binder, Loose-leaf. J. N. Larsen. No. 971,202; Sept. 27; Sp. p. 4396; Gaz. vol. 158; p. 771.
Binder, Loose-leaf. O. R. Mayer and J. W. Schoettle. No. 973,528; Oct. 25; Sp. p. 4441; Gaz. vol. 159; p. 776.
Binder, Loose-leaf. K. J. Sarles and T. E. Heeter. No. 973,707; Oct. 25; Sp. p. 4821; Gaz. vol. 159; p. 838.
Binder, Loose-leaf. H. G. Fornoff and H. C. Klages. No. 973,932; Oct. 25; Sp. p. 5280; Gaz. vol. 159; p. 917.
Binder, Loose-leaf. L. F. Scherzinger. No. 974,831; Nov. 8; Sp. p. 1694; Gaz. vol. 160; p. 285.
Binder, Loose-leaf. J. A. Mudd. No. 977,120; Nov. 29; Sp. p. 6731; Gaz. vol. 160; p. 1145.
Binder, Loose-leaf. T. E. Heeter. No. 978,744; Dec. 13; Sp. p. 2879; Gaz. vol. 161; p. 487.
Binder, Loose-leaf. R. J. Nicholson. No. 979,087; Dec. 20; Sp. p. 3603; Gaz. vol. 161; p. 628.
Binder, Loose-leaf. G. C. Moore. No. 979,326; Dec. 20; Sp. p. 4139; Gaz. vol. 161; p. 713.
Binder, Magazine-. J. Pohoralek. No. 848,546; Feb. 15; Sp. p. 3704; Gaz. vol. 151; p. 644.
Binder, Magazine-. H. B. Collins. No. 964,216; July 12; Sp. p. 2585; Gaz. vol. 156; p. 426.
Binder, One-piece loose-leaf. A. W. Badrow. No. 961,064; June 7; Sp. p. 1660; Gaz. vol. 155; p. 277.
Binder or loose-leaf holder, Temporary. G. P. Wigginton and F. W. Hodges. No. 979,622; Dec. 27; Sp. p. 4765; Gaz. vol. 161; p. 837.
Binder or loose-sheet holder, Temporary. J. A. Starkweather and O. W. Nottingham. No. 974,999; Nov. 8; Sp. p. 2109; Gaz. vol. 160; p. 343.
Binder or loose-sheet holder, Temporary. C. E. Morehouse. No. 978,922; Dec. 20; Sp. p. 3219; Gaz. vol. 161; p. 571.
Binder or loose-sheet holder, Temporary. F. L. Impey. No. 979,673; Dec. 27; Sp. p. 4868; Gaz. vol. 161; p. 853.
Binder, Pamphlet-. E. A. Sharp. No. 952,471; Mar. 22; Sp. p. 4062; Gaz. vol. 152; p. 751.
Binder-posts, Attachment means for. R. Krumming. No. 970,510; Sept. 20; Sp. p. 2914; Gaz. vol. 158; p. 508.
Binder, Pressed-steel ledger-. L. R. Dickerson. No. 952,668; Mar. 22; Sp. p. 4502; Gaz. vol. 152; p. 819.
Binder, Publication-. E. B. Arnold. No. 948,125; Feb. 1; Sp. p. 713; Gaz. vol. 151; p. 117.
Binder, Temporary. C. D. Trussell. No. 959,182; May 24; Sp. p. 6005; Gaz. vol. 154; p. 1004.
Binder, Temporary. C. D. and E. A. Trussell. No. 959,183; May 24; Sp. p. 6006; Gaz. vol. 154; p. 1004.
Binder, Temporary. C. B. Buck. No. 960,240; May 31; Sp. p. 8246; Gaz. vol. 154; p. 1387.
Binder, Temporary. R. R. Darwin. No. 960,279; June 7; Sp. p. 79; Gaz. vol. 155; p. 17.
Binder, Temporary. J. Patterson. No. 962,460; June 28; Sp. p. 4687; Gaz. vol. 155; p. 827.
Binder, Temporary. C. E. Morehouse. No. 967,541; Aug. 16; Sp. p. 3643; Gaz. vol. 157; p. 626.
Binder, Temporary. S. H. Wiberg. No. 968,620; Aug. 30; Sp. p. 5924; Gaz. vol. 157; p. 1043.
Binder, Temporary. C. D. Graves. No. 971,441; Sept. 27; Sp. p. 4844; Gaz. vol. 158; p. 848.
Binder, Temporary. A. D. Ray. No. 971,926; Oct. 4; Sp. p. 890; Gaz. vol. 159; p. 154.
Binder, Temporary. L. M. Morden and L. R. Hitchcock. No. 973,452; Oct. 18; Sp. p. 4266; Gaz. vol. 159; p. 727.
Binder, Temporary. L. M. Morden and L. R. Hitchcock. No. 973,453; Oct. 18; Sp. p. 4269; Gaz. vol. 159; p. 727.
Binder, Temporary. F. Wolff. No. 976,421; Nov. 22; Sp. p. 5181; Gaz. vol. 160; p. 880.

Alphabetical list of inventions—Continued.

Binders and the like, Seal-lock for loose-leaf. A. H. Chadwick. No. 972,817; Oct. 18; Sp. p. 2836; Gaz. vol. 159; p. 506.

Binders, Extensible pillar or post for loose-leaf. J. S. McComb. No. 947,978; Feb. 1; Sp. p. 419; Gaz. vol. 151; p. 66.

Binders, Extensible post or pillar for loose-leaf. J. S. McComb. No. 947,975; Feb. 1; Sp. p. 415; Gaz. vol. 151; p. 66.

Binders, Perforating attachment for loose-leaf. J. J. Diehl. No. 962,421; June 28; Sp. p. 4603; Gaz. vol. 155; p. 813.

Binders, Support for leaves of loose-leaf. J. S. McComb. No. 947,977; Feb. 1; Sp. p. 418; Gaz. vol. 151; p. 66.

Binders, Treating adhesive. J. D. McLaurin. No. 954,644; Apr. 12; Sp. p. 2035; Gaz. vol. 153; p. 358.

Binding device, Flexible. C. B. Smith. No. 950,354; Feb. 22; Sp. p. 5443; Gaz. vol. 151; p. 954.

Binding device, Loose-leaf-. M. C. Neuner. No. 951,545; Mar. 8; Sp. p. 2198; Gaz. vol. 152; p. 382.

Binding hinge, Loose-leaf-. A. S. Robertson. No. 952,642; Mar. 22; Sp. p. 4450; Gaz. vol. 152; p. 811.

Binding-post. G. W. Goodridge. No. 960,087; May 31; Sp. p. 7950; Gaz. vol. 154; p. 1335.

Binding-post. T. E. Murray. No. 970,089; Sept. 13; Sp. p. 2039; Gaz. vol. 158; p. 346.

Binding-post. A. F. Wallbillich. No. 973,898; Oct. 25; Sp. p. 5223; Gaz. vol. 159; p. 905.

Binocular periscope. C. H. Bedell. No. 954,160; Apr. 5; Sp. p. 988; Gaz. vol. 153; p. 167.

Binocular, Prism-. J. Heckel. No. 959,739; May 31; Sp. p. 7155; Gaz. vol. 154; p. 1214.

Bird-cage. J. E. Compton. No. 963,995; July 12; Sp. p. 2152; Gaz. vol. 156; p. 352.

Bird-guard. L. G. Swanson. No. 974,722; Nov. 1; Sp. p. 1464; Gaz. vol. 160; p. 225.

Bird-house. E. H. Barney. No. 968,523; Aug. 30; Sp. p. 5724; Gaz. vol. 157; p. 1009.

Biscuit-cutter. S. Craig. No. 965,991; Aug. 2; Sp. p. 310; Gaz. vol. 157; p. 51.

Biscuit-cutter. J. Hartmann. No. 973,192; Oct. 18; Sp. p. 3738; Gaz. vol. 159; p. 638.

Biscuits, Machine for making shredded-wheat. W. E. Williams. No. 949,013; Feb. 15; Sp. p. 2600; Gaz. vol. 151; p. 466.

Biscuits, Manufacture of cup, cornet, and like. T. O. Bates. No. 972,985; Oct. 18; Sp. p. 3258; Gaz. vol. 159; p. 567.

Bit: *See* Auger-bit; Boring or drilling bit; Box-bit; Bridle-bit; Expansible bit; Horse-bit; Mining-machine bit; Mining starter-bit; Rock-drilling bit; Router-bit; Under bit.

Bit. W. J. Engle. No. 962,134; June 21; Sp. p. 3978; Gaz. vol. 155; p. 691.

Bit-brace. C. R. Cousino. No. 953,518; Mar. 29; Sp. p. 6329; Gaz. vol. 152; p. 1135.

Bit-brace. E. S. Marks. No. 957,696; May 10; Sp. p. 2537; Gaz. vol. 154; p. 439.

Bit-brace. W. H. Whigham. No. 970,361; Sept. 13; Sp. p. 2589; Gaz. vol. 158; p. 437.

Bit-chuck and bit. M. Hardsocg. No. 945,735; Jan. 4; Sp. p. 1583; Gaz. vol. 150; p. 243.

Bit-holder. W. C. Fox. No. 972,179; Oct. 11; Sp. p. 1452; Gaz. vol. 159; p. 259.

Bit-holder, Extension. W. A. Peck. No. 954,046; Apr. 5; Sp. p. 727; Gaz. vol. 153; p. 127.

Bits and drills, Receptacle for. O. R. Milke. No. 979,981; Dec. 27; Sp. p. 5535; Gaz. vol. 161; p. 956.

Bituminous mixing machine. J. H. Ryan. No. 960,410; June 7; Sp. p. 353; Gaz. vol. 155; p. 59.

Bituminous structural material. H. R. Wardell. No. 958,450; May 17; Sp. p. 4469; Gaz. vol. 154; p. 731.

Blackboard and table, Combination. H. A. Snyder. No. 948,905; Feb. 8; Sp. p. 2370; Gaz. vol. 151; p. 403.

Blackener, Shoe-. S. G. H. Glasgow. No. 959,507; May 31; Sp. p. 6686; Gaz. vol. 154; p. 1138.

Blacking-box. M. A. Evans. No. 963,703; July 5; Sp. p. 1485; Gaz. vol. 156; p. 231.

Blacking box and brush case. S. W. Mendel. No. 950,940; Mar. 1; Sp. p. 1002; Gaz. vol. 152; p. 160.

Blacking case, Shoe-. A. Rydquist. No. 946,464; Jan. 11; Sp. p. 3287; Gaz. vol. 150; p. 528.

Blacking device. G. O. Hannah. No. 967,764; Aug. 16; Sp. p. 4091; Gaz. vol. 157; p. 701.

Blacking heated iron. G. H. Johnson. No. 945,954; Jan. 11; Sp. p. 2115; Gaz. vol. 150; p. 352.

Blacking machine, Boot-. A. T. Peffer, No. 947,933; Feb. 1; Sp. p. 318; Gaz. vol. 151; p. 53.

Blacking stand and bootjack, Combination shoe-. A. Bancroft. No. 960,148; May 31; Sp. p. 8064; Gaz. vol. 154; p. 1355.

Blacksmith's hardy. W. B. Robeson. No. 968,885; Aug. 30; Sp. p. 6506; Gaz. vol. 157; p. 1133.

Blade. O. A. Clark. No. 967,500; Aug. 16; Sp. p. 3573; Gaz. vol. 157; p. 613.

Blade-folder. O. A. Clark. No. 959,995; May 31; Sp. p. 7740; Gaz. vol. 154; p. 1304.

Blade-holder. F. J. Nash. No. 968,391; Aug. 23; Sp. p. 5438; Gaz. vol. 157; p. 938.

Blade holder and sharpener. A. A. Ensminger. No. 945,771; Jan. 11; Sp. p. 1701; Gaz. vol. 150; p. 285.

Blade-holding means. C. E. Sweet. No. 972,411; Oct. 11; Sp. p. 1942; Gaz. vol. 159; p. 341.

Blade-mounting means. C. E. Sweet. No. 945,204; Jan. 4; Sp. p. 410; Gaz. vol. 150; p. 68.

Blade-tie. D. H. Dugar. No. 973,639; Oct. 25; Sp. p. 4686; Gaz. vol. 159; p. 814.

Blades with soft centers, Making. O. A. Clark. No. 972,436; Oct. 11; Sp. p. 1988; Gaz. vol. 159; p. 349.

Blank-cutting machine. J. Bengough. No. 946,532; Jan. 18; Sp. p. 3435; Gaz. vol. 150; p. 577.

Blank-feed mechanism. A. C. Campbell. No. 959,918; May 31; Sp. p. 7556; Gaz. vol. 154; p. 1276.

Blank-feeding mechanism. J. E. Abrams. No. 955,112; Apr. 12; Sp. p. 3042; Gaz. vol. 153; p. 516.

Blank-forming machine. R. Mason. No. 965,919; Aug. 2; Sp. p. 151; Gaz. vol. 157; p. 26.

Blank-making machine, Skived-. L. L. Hartwell. No. 967,910; Aug. 23; Sp. p. 4387; Gaz. vol. 157; p. 773.

Blank-trimming machine. A. W. Ainsworth, S. J. Putnam, and K. A. Edstrom. No. 956,871; May 3; Sp. p. 808; Gaz. vol. 154; p. 128.

Blanks, Forming. W. J. Going. No. 961,119; June 14; Sp. p. 1778; Gaz. vol. 155; p. 322.

Blanks, Machine for making skived. L. L. Hartwell. No. 970,499; Sept. 20; Sp. p. 2886; Gaz. vol. 158; p. 504.

Blast-furnace. J. Scott. No. 964,885; July 19; Sp. p. 4122; Gaz. vol. 156; p. 686.

Blast-furnace. C. H. Bradley. No. 967,602; Aug. 16; Sp. p. 3765; Gaz. vol. 157; p. 647.

Blasting-barrel. E. R. Harkins. No. 970,372; Sept. 13; Sp. p. 2619; Gaz. vol. 158; p. 441.

Blasting charge, Means for firing a. J. Cartwright. No. 953,594; Mar. 29; Sp. p. 6490; Gaz. vol. 152; p. 1160.

Blasting charges, Means for preparing and fixing. C. S. Bahney. No. 947,289; Jan. 25; Sp. p. 5063; Gaz. vol. 150; p. 856.

Blasting-plug. F. A. Goodrow and E. F. Gooding. No. 971,264; Sept. 27; Sp. p. 4525; Gaz. vol. 158; p. 791.

Bleacher. W. F. Rotzien. No. 965,947; Aug. 2; Sp. p. 204; Gaz. vol. 157; p. 35.

Bleaching agents, Apparatus for storing, diluting, and applying. J. A. Wesener. No. 954,835; Apr. 12; Sp. p. 2497; Gaz. vol. 153; p. 425.

Bleaching union cotton and wool goods. J. S. Armstrong. No. 977,848; Dec. 6; Sp. p. 931; Gaz. vol. 161; p. 147.

Blind-fastener. E. L. Pratt. No. 971,789; Oct. 4; Sp. p. 584; Gaz. vol. 159; p. 102.

Blind-fastener. H. W. Otto. No. 978,479; Dec. 13; Sp. p. 2297; Gaz. vol. 161; p. 396.

Blind for fireproof buildings. A. T. Ellis. No. 962,011; June 21; Sp. p. 3680; Gaz. vol. 155; p. 647.

Blind holder, Window-. O. Thomasen. No. 959,403; May 24; Sp. p. 6432; Gaz. vol. 154; p. 1076.

Blind lock and catch, Combination. W. J. D. Branscom. No. 977,777; Dec. 6; Sp. p. 786; Gaz. vol. 161; p. 122.

Blind-operating device. J. Bolewicz. No. 952,064; Mar. 15; Sp. p. 3253; Gaz. vol. 152; p. 585.

Blind or awning. S. Mrokowski. No. 960,230; May 31; Sp. p. 8222; Gaz. vol. 154; p. 1384.

Blind-slat-operating device. J. Bolewicz. No. 952,065; Mar. 15; Sp. p. 3254; Gaz. vol. 152; p. 586.

Blind-stop. J. A. Hedberg. No. 975,423; Nov. 15; Sp.-p. 3007; Gaz. vol. 160; p. 513.

Blind, Ventilating-. H. K. Wheeler. No. 975,491; Nov. 15; Sp. p. 3146; Gaz. vol. 160; p. 537.

Blindstitch-machines, Presser-foot for. L. Onderdonk. No. 976,095; Nov. 15; Sp. p. 4392; Gaz. vol. 160; p. 744.

Block: *See* Abrading-block; Building-block; Cement block; Concrete block; Crown-block; Engraver's block; Fulcrum-block; Fuse-block; Game-block; Jack-block; Keel-block; Meat-block; Meter-connecting block; Miter-block; Paving-block; Pulley-block; Resilient block; Sheave-block; Space-block; Stereotype-block; Switch-block; Tackle-block; Tool-holding block; Toy building-block; Track-leveling jack-block; Wire-drawing block.

Block-and-tackle device. E. Moore. No. 947,595; Jan. 25; Sp. p. 5783; Gaz. vol. 150; p. 961.

Block-making machine. A. G. Van Schaick and E. L. Catlin. No. 967,467; Aug. 16; Sp. p. 3481; Gaz. vol. 157; p. 600.

Block mold, Hollow-partition-. J. F. Makowski. No. 977,025; Nov. 29; Sp. p. 6519; Gaz. vol. 160; p. 1113.

Block mold, Plastic-. W. W. Owens. No. 978,056; Dec. 6; Sp. p. 1364; Gaz. vol. 161; p. 219.

Block-molding machine. J. W. Bragstad. No. 959,050; May 24; Sp. p. 5714; Gaz. vol. 154; p. 960.

Block-molding machine. J. C. Yarwood. No. 965,978; Aug. 2; Sp. p. 284; Gaz. vol. 157; p. 47.

Block-signal mechanism, Electrically-operated. R. A. Streeter. No. 972,660; Oct. 11; Sp. p. 2512; Gaz. vol. 159; p. 427.

Block-signal system. L. A. Hawkins. No. 949,322; Feb. 15; Sp. p. 3224; Gaz. vol. 151; p. 568.

Block-signal system. G. S. Pfasterer. No. 979,556; Dec. 27; Sp. p. 4620; Gaz. vol. 161; p. 812.

Block-switch. J. R. McKinnis. No. 946,612; Jan. 18; Sp. p. 3579; Gaz. vol. 150; p. 602.

Blocks and bricks, Mold for making. H. A. Zurbuch. No. 950,811; Mar. 1; Sp. p. 753; Gaz. vol. 152; p. 120.

Blotter. M. F. Montague. No. 967,951; Aug. 23; Sp. p. 4469; Gaz. vol. 157; p. 786.

Alphabetical list of inventions—Continued.

Blotter attachment. G. F. Geiger. No. 649,702; Feb. 15; Sp. p. 3995; Gaz. vol. 151; p. 695.
Blotter for penholders, Rotary. W. L. Hare and E. E. Winne. No. 957,329; May 10; Sp. p. 1804; Gaz. vol. 154; p. 315.
Blotter, Ink-. O. B. Moebes. No. 950,540; Mar. 1; Sp. p. 165; Gaz. vol. 152; p. 28.
Blotting device. H. Uehlinger. No. 960,603; June 7; Sp. p. 741; Gaz. vol. 155; p. 122.
Blower. M. A. O'Connor. No. 951,197; Mar. 8; Sp. p. 1476; Gaz. vol. 152; p. 268.
Blower. J. J. Stocker. No. 963,957; July 12; Sp. p. 2067; Gaz. vol. 156; p. 337.
Blower-actuating means. H. Walther. No. 970,448; Sept. 13; Sp. p. 2767; Gaz. vol. 158; p. 465.
Blower and exhauster, Rotary. T. W. Green. No. 973,190; Oct. 18; Sp. p. 3733; Gaz. vol. 159; p. 638.
Blower, Fan-. A. Mathis. No. 952,993; Mar. 22; Sp. p. 5167; Gaz. vol. 152; p. 928.
Blower, Fan-. S. Higgins. No. 957,607; May 10; Sp. p. 2345; Gaz. vol. 154; p. 408.
Blower for water-tube boilers. T. S. Waller and E. B. Barnhill. No. 969,316; Sept. 6; Sp. p. 339; Gaz. vol. 158; p. 56.
Blower or pump. F. J. Miner. No. 979,324; Dec. 20; Sp. p. 4134; Gaz. vol. 161; p. 712.
Blower, Positive-displacement rotary. J. J. Gibson and C. L. W. Trinks. No. 974,481; Nov. 1; Sp. p. 939; Gaz. vol. 160; p. 139.
Blower, Positive-pressure. F. P. Boland. No. 959,049; May 24; Sp. p. 5713; Gaz. vol. 154; p. 959.
Blower, Rotary. P. Laut. No. 950,856; Mar. 1; Sp. p. 840; Gaz. vol. 152; p. 134.
Blower, Rotary pressure-. P. D. Brewster. No. 971,660; Oct. 4; Sp. p. 311; Gaz. vol. 159; p. 56.
Blower-unloading device. J. G. Maclaren. No. 961,364; June 14; Sp. p. 2313; Gaz. vol. 155; p. 409.
Blowing-engine. P. H. Kane. No. 960,556; June 7; Sp. p. 650; Gaz. vol. 155; p. 106.
Blowing-engine. G. B. Petsche. No. 966,469; Aug. 9; Sp. p. 1320; Gaz. vol. 157; p. 235.
Blowing-engine or compressor. G. Mesta. No. 958,705; May 17; Sp. p. 4955; Gaz. vol. 154; p. 814.
Blowpipe. J. Harris. No. 948,323; Feb. 8; Sp. p. 1130; Gaz. vol. 151; p. 208.
Blowpipe. O. P. Davis. No. 948,875; Feb. 8; Sp. p. 2309; Gaz. vol. 151; p. 392.
Blowpipe. J. F. Mason. No. 950,235; Feb. 22; Sp. p. 5223; Gaz. vol. 151; p. 916.
Blowpipe. F. L. McGahan. No. 955,092; Apr. 12; Sp. p. 3013; Gaz. vol. 153; p. 511.
Blowpipe. R. W. Magna and L. G. W. Carpenter. No. 969,487; Sept. 6; Sp. p. 707; Gaz. vol. 158; p. 113.
Blowpipe. J. H. Flower. No. 972,759; Oct. 11; Sp. p. 2710; Gaz. vol. 159; p. 461.
Blowpipe. B. C. Gilligan. No. 976,796; Nov. 22; Sp. p. 5967; Gaz. vol. 160; p. 1007.
Blowpipe and operating the same. H. C. Harrison. No. 968,350; Aug. 23; Sp. p. 5357; Gaz. vol. 157; p. 924.
Blowpipe for welding metal. P. J. Griffin. No. 955,064; Apr. 12; Sp. p. 2966; Gaz. vol. 153; p. 503.
Blue-print machine. A. R. Murray. No. 949,084; Feb. 15; Sp. p. 2749; Gaz. vol. 151; p. 488.
Board: *See* Bill-board; Blackboard; Bulletin-board; Cigar-maker's rolling-board; Composite board; Cutting-board; Distributing-board; Drawing-board; Electrical distributing-board; Fiber-board; Flash-board; Game-board; Ironing-board; Lap-board; Leather-board; Metering panel-board; Molding-board; Music-instruction board; Panel-board; Paper-hanger's board; Papering-board; Plaster-board; Pressing-board; Printing-press delivery-board; Running-board; Score-board; Shoveling-board; Sign-board; Stove-board; Switchboard; Tally-board; Thread-board; Tile-board; Tracker-board; Washboard.
Board. J. T. Ferres. No. 952,074; Mar. 15; Sp. p. 3265; Gaz. vol. 152; p. 588.
Boards into quartered-grained boards, Converting plain-grained. H. Kertscher. No. 947,001; Jan. 18; Sp. p. 4453; Gaz. vol. 150; p. 734.
Boards, Machine for the manufacture of cellular. T. H. Taylor. No. 978,234; Dec. 13; Sp. p. 1774; Gaz. vol. 161; p. 311.
Boat. S. C. Johnson. No. 946,513; Jan. 11; Sp. p. 3400; Gaz. vol. 150; p. 544.
Boat. H. W. Vaniman. No. 957,820; May 10; Sp. p. 2790; Gaz. vol. 154; p. 479.
Boat. A. Ege. No. 964,627; July 19; Sp. p. 3487; Gaz. vol. 156; p. 596.
Boat apparatus, Life-. A. Brun. No. 972,809; Oct. 18; Sp. p. 2812; Gaz. vol. 159; p. 503.
Boat attachment for delivering seines into the water. N. O. Davidson. No. 963,211; July 5; Sp. p. 479; Gaz. vol. 156; p. 66.
Boat, Auto-drive. J. W. Freeman. No. 956,491; Apr. 26; Sp. p. 6090; Gaz. vol. 153; p. 1054.
Boat-balancing device. F. Nielson. No. 972,398; Oct. 11; Sp. p. 1912; Gaz. vol. 159; p. 336.
Boat, Bicycle-. H. F. Neu. No. 978,391; Dec. 13; Sp. p. 2112; Gaz. vol. 161; p. 368.
Boat-canopy. R. L. Kenyon. No. 974,072; Oct. 25; Sp. p. 5569; Gaz. vol. 159; p. 965.
Boat-cover fastening, Life-. C. F. Hudgins. No. 969,628; Sept. 6; Sp. p. 1017; Gaz. vol. 158; p. 163.
Boat equipped with submerging-planes, Submarine. L. Y. Spear. No. 973,227; Oct. 18; Sp. p. 3804; Gaz. vol. 159; p. 650.
Boat-fender. L. M. White. No. 950,685; Mar. 1; Sp. p. 473; Gaz. vol. 152; p. 76.
Boat fender-brake. J. Boydell. No. 959,299; May 24; Sp. p. 6235; Gaz. vol. 154; p. 1043.
Boat-flooring. F. Schmidt. No. 950,871; Mar. 1; Sp. p. 866; Gaz. vol. 152; p. 139.
Boat, Folding. J. Vaghi. No. 955,020; Apr. 12; Sp. p. 2891; Gaz. vol. 153; p. 489.
Boat gearing, Motor-. T. P. Cole. No. 968,128; Aug. 23; Sp. p. 4876; Gaz. vol. 157; p. 846.
Boat, Hand-propelled motor-. M. Alderman. No. 946,711; Jan. 18; Sp. p. 3789; Gaz. vol. 150; p. 634.
Boat, High-speed. J. H. Branth. No. 961,750; June 21; Sp. p. 3115; Gaz. vol. 155; p. 561.
Boat-hull. J. S. Anderson. No. 965,145; July 19; Sp. p. 4630; Gaz. vol. 156; p. 772.
Boat, Hydroplane-. W. M. and L. E. Meacham. No. 955,343; Apr. 19; Sp. p. 3559; Gaz. vol. 153; p. 629.
Boat, Hydroplane-. W. H. Fauber. No. 956,487; Apr. 26; Sp. p. 6079; Gaz. vol. 153; p. 1053.
Boat, Hydroplane-. W. H. Folk. No. 966,000; Aug. 2; Sp. p. 336; Gaz. vol. 157; p. 54.
Boat, Hydroplane-. W. H. Fauber. No. 971,029; Sept. 27; Sp. p. 4018; Gaz. vol. 158; p. 713.
Boat, Hydroplane motor-. C. Meldau. No. 976,588; Nov. 22; Sp. p. 5542; Gaz. vol. 160; p. 937.
Boat, Life-. J. E. Allen. No. 960,479; June 7; Sp. p. 474; Gaz. vol. 155; p. 80.
Boat lowering and launching means. J. H. Stoelt. No. 950,967; Mar. 1; Sp. p. 1058; Gaz. vol. 152; p. 169.
Boat, Motor-. S. Lake. No. 978,311; Dec. 13; Sp. p. 1939; Gaz. vol. 161; p. 330.
Boat, Motor-. J. L. Crawford. No. 979,383; Dec. 20; Sp. p. 4237; Gaz. vol. 161; p. 730.
Boat or other vessel, Submarine. A. H. Atteridge. No. 969,128; Aug. 30; Sp. p. 6997; Gaz. vol. 157; p. 1217.
Boat-outrigger. H. Propp. No. 967,669; Aug. 16; Sp. p. 3897; Gaz. vol. 157; p. 668.
Boat-releasing hook. J. Y. Porter, Jr. No. 965,655; July 26; Sp. p. 5752; Gaz. vol. 156; p. 978.
Boat salvage device. G. Salles. No. 945,141; Jan. 4; Sp. p. 266; Gaz. vol. 150; p. 47.
Boat, Stone-. J. B. Carey. No. 966,164; Aug. 2; Sp. p. 695; Gaz. vol. 157; p. 109.
Boat, Submarine. L. E. Goetz. No. 960,537; June 7; Sp. p. 615; Gaz. vol. 155; p. 99.
Boat, Submarine. S. Lake. No. 970,064; Sept. 13; Sp. p. 1995; Gaz. vol. 158; p. 338.
Boat, Submarine torpedo-. A. M. Fuller. No. 970,210; Sept. 13; Sp. p. 2288; Gaz. vol. 158; p. 387.
Boat, Torpedo-. H. Maxim. No. 946,944; Jan. 18; Sp. p. 4343; Gaz. vol. 150; p. 714.
Boats and the like, Device for regulating the submersion of submarine. M. F. Hay. No. 977,951; Dec. 6; Sp. p. 1143; Gaz. vol. 161; p. 184.
Boats, Device for conning submarine. L. Y. Spear. No. 954,707; Apr. 12; Sp. p. 2173; Gaz. vol. 153; p. 380.
Boats, Means for emptying submergence-tanks in submergible. L. Y. Spear. No. 964,943; July 19; Sp. p. 4231; Gaz. vol. 156; p. 707.
Boats, Means for expelling the gas-engine exhaust of submarine. L. Noé. No. 953,283; Mar. 29; Sp. p. 5816; Gaz. vol. 152; p. 1052.
Boats, Message-carrier for. F. J. Meno. No. 980,176; Dec. 27; Sp. p. 6002; Gaz. vol. 161; p. 1021.
Boats, Safety device for submarine. W. A. Stevenson. No. 952,379; Mar. 15; Sp. p. 3856; Gaz. vol. 152; p. 690.
Boats while in motion, Device for automatically draining bilge-water and other refuse from. J. A. Pyke. No. 965,011; July 19; Sp. p. 4367; Gaz. vol. 156; p. 728.
Boats while in operation, Maintaining equality of weight in submarine. P. Winand. No. 953,881; Apr. 5; Sp. p. 392; Gaz. vol. 153; p. 71.
Bobbin. M. A. Bland. No. 956,277; Apr. 26; Sp. p. 5620; Gaz. vol. 153; p. 980.
Bobbin. T. P. Walsh. No. 957,825; May 10; Sp. p. 2798; Gaz. vol. 154; p. 481.
Bobbin-boring machine. L. C. Baldwin. No. 970,601; Sept. 20; Sp. p. 3102; Gaz. vol. 158; p. 541.
Bobbin-boring machine. L. C. Baldwin and E. C. Buffington. No. 974,545; Nov. 1; Sp. p. 1088; Gaz. vol. 160; p. 164.
Bobbin-holder. R. S. Matteson. No. 955,088; Apr. 12; Sp. p. 3008; Gaz. vol. 153; p. 510.
Bobbin-holder and yarn-catcher, Combined. W. C. Boswell. No. 964,084; July 12; Sp. p. 2328; Gaz. vol. 156; p. 383.
Bobbin-holder for spinning-spindles. F. Oskrit. No. 970,745; Sept. 20; Sp. p. 3450; Gaz. vol. 158; p. 590.
Bobbin machine, Single-thread lace-. E. Krenzler. No. 946,445; Jan. 11; Sp. p. 3241; Gaz. vol. 150; p. 521.
Bobbin or spool. F. G. Snyder and C. P. Mullen. No. 968,276; Aug. 23; Sp. p. 5216; Gaz. vol. 157; p. 898.
Bobbin-spindle. J. A. Clark. No. 950,090; Mar. 1; Sp. p. 900; Gaz. vol. 152; p. 144.

Alphabetical list of inventions—Continued.

Bobbin-support. J. O. Wade. No. 947,465; Jan. 25; Sp. p. 5479; Gaz. vol. 150; p. 916.
Bobbin-winder. E. Berger. No. 977,157; Nov. 29; Sp. p. 6812; Gaz. vol. 160; p. 1158.
Bobbins, Machine for applying split rings on the butts of. D. S. Courtney. No. 979,438; Dec. 27; Sp. p. 4355; Gaz. vol. 161; p. 772.
Bobbins or spools, Holder for. T. F. Roney. No. 955,208; Apr. 19; Sp. p. 3266; Gaz. vol. 153; p. 585.
Body-brace. J. U. Adams. No. 945,359; Jan. 4; Sp. p. 774; Gaz. vol. 150; p. 119.
Body-brace. R. F. MacClemmy. No. 948,233; Feb. 1; Sp. p. 925; Gaz. vol. 151; p. 152.
Body-brace. R. F. MacClemmy. No. 948,234; Feb. 1; Sp. p. 928; Gaz. vol. 151; p. 152.
Body-brace. H. M. Powers. No. 975,454; Nov. 15; Sp. p. 3068; Gaz. vol. 160; p. 524.
Body-conformer. J. N. Faust. No. 965,886; Aug. 2; Sp. p. 74; Gaz. vol. 157; p. 15.
Body-forming machine. C. W. Graham. No. 970,620; Sept. 20; Sp. p. 3139; Gaz. vol. 158; p. 547.
Body-supported bracket. R. J. Birdwell. No. 956,274; Apr. 26; Sp. p. 5616; Gaz. vol. 153; p. 979.
Boiler: *See* Clothes-boiler; Domestic boiler; Downdraft sectional boiler; Egg-boiler; Electrically-heated boiler; Evaporation-boiler; Food-boiler; Heating-boiler; High-power boiler; Hot-water boiler; Locomotive-boiler; Range-boiler; Sectional boiler; Stand-boiler; Steam-boiler; Steam and hot-water boiler; Superheater-boiler; Superheating-boiler; Vertical boiler; Washboiler; Water-tube boiler.
Boiler. G. Engel. No. 948,271; Feb. 1; Sp. p. 997; Gaz. vol. 151; p. 164.
Boiler. J. G. Hayden. No. 952,429; Mar. 15; Sp. p. 3952; Gaz. vol. 152; p. 708.
Boiler. H. S. Martin. No. 963,915; July 12; Sp. p. 1978; Gaz. vol. 156; p. 325.
Boiler. P. A. Deasy. No. 966,532; Aug. 9; Sp. p. 1503; Gaz. vol. 157; p. 258.
Boiler. H. C. Clay. No. 969,746; Sept. 6; Sp. p. 1277; Gaz. vol. 158; p. 204.
Boiler. F. W. Meyer. No. 971,296; Sept. 27; Sp. p. 4576; Gaz. vol. 158; p. 801.
Boiler. L. C. Rhea. No. 971,561; Oct. 4; Sp. p. 111; Gaz. vol. 159; p. 21.
Boiler. A. G. Sherman. No. 972,580; Oct. 11; Sp. p. 2342; Gaz. vol. 159; p. 400.
Boiler. W. F. Sellers and C. J. Davidson. No. 975,897; Nov. 15; Sp. p. 4007; Gaz. vol. 160; p. 675.
Boiler. W. F. Sellers and C. J. Davidson. No. 976,103; Nov. 15; Sp. p. 4409; Gaz. vol. 160; p. 747.
Boiler. J. G. Hayden. No. 976,650; Nov. 22; Sp. p. 5671; Gaz. vol. 160; p. 958.
Boiler. S. Prébandier. No. 976,912; Nov. 29; Sp. p. 6232; Gaz. vol. 160; p. 1072.
Boiler. E. M. Wilkinson. No. 977,915; Dec. 6; Sp. p. 1072; Gaz. vol. 161; p. 170.
Boiler accessories, Water-tube-. C. M. Clausen. No. 946,934; Jan. 18; Sp. p. 4328; Gaz. vol. 150; p. 711.
Boiler-alarm. A. J. Aderhold. No. 963,028; July 5; Sp. p. 1; Gaz. vol. 156; p. 3.
Boiler attachment. G. M. Morris and J. H. Watkins. No. 960,229; May 31; Sp. p. 8220; Gaz. vol. 154; p. 1383.
Boiler attachment, Locomotive or other. C. F. Harris. No. 959,134; May 24; Sp. p. 5897; Gaz. vol. 154; p. 988.
Boiler-blower. E. B. Barnhill. No. 966,987; Aug. 9; Sp. p. 2492; Gaz. vol. 157; p. 409.
Boiler-bottom. D. J. Lahay. No. 955,084; Apr. 12; Sp. p. 2999; Gaz. vol. 153; p. 509.
Boiler-brace. C. Neblett. No. 961,522; June 14; Sp. p. 2639; Gaz. vol. 155; p. 461.
Boiler casing, Water-tube-. J. Suck. No. 945,203; Jan. 4; Sp. p. 409; Gaz. vol. 150; p. 68.
Boiler circulating attachment. T. Barrow. No. 974,736; Nov. 1; Sp. p. 1484; Gaz. vol. 160; p. 229.
Boiler circulating device. F. H. Newhall. No. 945,977; Jan. 11; Sp. p. 2161; Gaz. vol. 150; p. 360.
Boiler-cleaner. B. F. Parker. No. 950,188; Feb. 22; Sp. p. 5118; Gaz. vol. 151; p. 898.
Boiler-cleaner. L. J. Bayer. No. 978,830; Dec. 20; Sp. p. 3030; Gaz. vol. 161; p. 539.
Boiler-cleaner, Mechanical. A. C. Clark. No. 975,328; Nov. 8; Sp. p. 2815; Gaz. vol. 160; p. 455.
Boiler-cleaning attachment, Water-tube-. E. Stephenson. No. 958,842; May 24; Sp. p. 5282; Gaz. vol. 154; p. 891.
Boiler-cleaning composition. E. Vezie. No. 948,833; Feb. 8; Sp. p. 2238; Gaz. vol. 151; p. 379.
Boiler-cleansing apparatus. J. Zetka. No. 947,955; Feb. 1; Sp. p. 371; Gaz. vol. 151; p. 60.
Boiler compound. J. Q. Maule. No. 976,894; Nov. 29; Sp. p. 6192; Gaz. vol. 160; p. 1066.
Boiler construction. A. B. Stirling. No. 977,143; Nov. 29; Sp. p. 6783; Gaz. vol. 160; p. 1153.
Boiler construction. A. B. Stirling. No. 977,144; Nov. 29; Sp. p. 6786; Gaz. vol. 160; p. 1153.
Boiler-crown-sheet-cleaning device. W. D. Randall. No. 973,069; Oct. 18; Sp. p. 3435; Gaz. vol. 159; p. 595.
Boiler explosions, Means for preventing. J. V. Hoffmann. No. 948,881; Feb. 8; Sp. p. 2318; Gaz. vol. 151; p. 394.
Boiler fire-box. J. M. McClellon. No. 963,627; July 5; Sp. p. 1332; Gaz. vol. 156; p. 206.
Boiler-flue. J. R. Crowley. No. 977,276; Nov. 29; Sp. p. 7049; Gaz. vol. 160; p. 1199.
Boiler-flue cleaner. A. Connor. No. 969,461; Sept. 6; Sp. p. 641; Gaz. vol. 158; p. 103.
Boiler-flue cleaner. R. O. Hodge. No. 972,374; Oct. 11; Sp. p. 1857; Gaz. vol. 159; p. 326.
Boiler-flue, Detachable. J. F. Drake. No. 958,910; May 24; Sp. p. 5456; Gaz. vol. 154; p. 914.
Boiler-flue, Detachable. J. M. Crozier. No. 972,164; Oct. 11; Sp. p. 1421; Gaz. vol. 159; p. 255.
Boiler-flue, Detachable. O. C. Borgen. No. 973,471; Oct. 25; Sp. p. 4316; Gaz. vol. 159; p. 757.
Boiler-flue scraper. H. Smith. No. 945,732; Jan. 4; Sp. p. 1578; Gaz. vol. 150; p. 242.
Boiler-flue-work apparatus. C. A. Anderson. No. 966,638; Aug. 9; Sp. p. 1719; Gaz. vol. 157; p. 293.
Boiler-furnace. C. H. Wilson. No. 949,048; Feb. 15; Sp. p. 2681; Gaz. vol. 151; p. 477.
Boiler-furnace G. de Grahl. No. 965,292; July 26; Sp. p. 4938; Gaz. vol. 156; p. 851.
Boiler-furnace. G. de Grahl. No. 969,250; Sept. 6; Sp. p. 220; Gaz. vol. 158; p. 36.
Boiler-furnace. G. de Grahl. No. 975,763; Nov. 15; Sp. p. 3737; Gaz. vol. 160; p. 630.
Boiler furnace, Steam-. C. H. Knowles. No. 945,959; Jan. 11; Sp. p. 2128; Gaz. vol. 150; p. 353.
Boiler furnace, Steam-. T. Seevers. No. 946,525; Jan. 11; Sp. p. 3421; Gaz. vol. 150; p. 548.
Boiler furnace, Steam-. E. F. Edgar. No. 946,840; Jan. 18; Sp. p. 4106; Gaz. vol 150; p. 679.
Boiler furnace, Steam-. W. J. Ellis. No. 950,662; Mar. 1; Sp. p. 428; Gaz. vol. 152; p. 69.
Boiler furnace, Steam-. W. J. Ellis. No. 950,664; Mar. 1; Sp. p. 432; Gaz. vol. 152; p. 70.
Boiler furnace, Steam-. J. A. Forsyth. No. 951,069; Mar. 1; Sp. p. 1227; Gaz. vol. 152; p. 201.
Boiler furnace, Steam-. P. Doran. No. 953,023; Mar. 29; Sp. p. 5243; Gaz. vol. 152; p. 967.
Boiler furnace, Steam-. H. A. Poppenhusen and J. Harrington. No. 964,053; July 12; Sp. p. 2265; Gaz. vol. 156; p. 373.
Boiler furnace, Steam-. G. S. Gallagher. No. 966,680; Aug. 9; Sp. p. 1798; Gaz. vol. 157; p. 307.
Boiler furnace, Steam-. A. H. Hausler. No. 971,996; Oct. 4; Sp. p. 1077; Gaz. vol. 159; p. 180.
Boiler furnace, Steam-. F. Duffy. No. 977,078; Nov. 29; Sp. p. 6632; Gaz. vol. 160; p. 1130.
Boiler gage, Steam-. W. T. Piper. No. 961,008; June 7; Sp. p. 1548; Gaz. vol. 155; p. 259.
Boiler-hanger. J. P. Bauer and F. C. Stimmel. No. 979,732; Dec. 27; Sp. p. 5006; Gaz. vol. 161; p. 874.
Boiler-header. W. F. Sellers. No. 960,044; May 31; Sp. p. 7869; Gaz. vol. 154; p. 1321.
Boiler-headers, Boring and facing machine for. W. F. and C. Sellers, Jr., and T. T. Collins. No. 961,542; June 14; Sp. p. 2699; Gaz. vol. 155; p. 468.
Boiler or heater. J. H. Paton. No. 963,936; July 12; Sp. p. 2015; Gaz. vol. 156; p. 331.
Boiler-patch. F. Strattner. No. 953,562; Mar. 29; Sp. p. 6423; Gaz. vol. 152; p. 1149.
Boiler regulator and feeder, Steam-. V. Garbarino. No. 956,635; May 3; Sp. p. 276; Gaz. vol. 154; p. 45.
Boiler-rivets, Scale-scraper for. G. Zein. No. 949,513; Feb. 15; Sp. p. 3634; Gaz. vol. 151; p. 633.
Boiler safety appliance, Steam-. E. Roth. No. 954,764; Apr. 12; Sp. p. 2324; Gaz. vol. 153; p. 402.
Boiler-scale preventer. J. W. Stephens. No. 973,989; Oct. 25; Sp. p. 5400; Gaz. vol. 159; p. 936.
Boiler-sections, Clamp for assembling. J. B. Bernhard. No. 979,737; Dec. 27; Sp. p. 5013; Gaz. vol. 161; p. 875.
Boiler sediment-remover, Steam. M. Huffman. No. 974,064; Oct. 25; Sp. p. 5555; Gaz. vol. 159; p. 962.
Boiler-setting. E. H. Cheney. No. 952,232; Mar. 15; Sp. p. 3569; Gaz. vol. 152; p. 641.
Boiler-setting. G. B. McLeod. No. 964,931; July 19; Sp. p. 4208; Gaz. vol. 156; p. 702.
Boiler superheater, Steam-. W. Schmidt. No. 946,466; Jan. 11; Sp. p. 3292; Gaz. vol. 150; p. 529.
Boiler superheater, Steam-. F. J. Cole and H. B. Oatley. No. 949,147; Feb. 15; Sp. p. 2881; Gaz. vol. 151; p. 510.
Boiler superheater, Steam-. F. J. Cole. No. 978,987; Dec. 20; Sp. p. 3387; Gaz. vol. 161; p. 596.
Boiler tube and flue cleaner. H. S. Stormer. No. 949,637; Feb. 15; Sp. p. 3873; Gaz. vol. 151; p. 675.
Boiler-tube cleaner. E. I. K. Noyes. No. 955,348; Apr. 19; Sp. p. 3568; Gaz. vol. 153; p. 631.
Boiler-tube cleaner. R. W. Hamann. No. 955,870; Apr. 26; Sp. p. 4733; Gaz. vol. 153; p. 839.
Boiler-tube cleaner. R. W. Hamann. No. 955,871; Apr. 26; Sp. p. 4736; Gaz. vol. 153; p. 840.
Boiler-tube cleaner. H. F. Weinland. No. 958,202; May 17; Sp. p. 3815; Gaz. vol. 154; p. 645.
Boiler-tube cleaner. G. H. Ainge. No. 958,205; May 17; Sp. p. 3820; Gaz. vol. 154; p. 646.
Boiler-tube cleaner. E. J. Buckmaster. No. 960,496; June 7; Sp. p. 516; Gaz. vol. 155; p. 86.
Boiler-tube cleaner. F. E. Carlson. No. 966,998; Aug. 9; Sp. p. 2515; Gaz. vol. 157; p. 414.
Boiler-tube cleaner. W. L. Miggett. No. 978,326; Dec. 13; Sp. p. 1972; Gaz. vol. 161; p. 344.

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Boiler-tube spreader. J. J. Maher. No. 956,985; May 3; Sp. p. 1060; Gaz. vol. 154; p. 166.
Boiler-tube spreader. J. J. Maher. No. 956,986; May 3; Sp. p. 1062; Gaz. vol. 154; p. 166.
Boiler-tubes, Apparatus for beading or turning over. H. E. A. Gallon. No. 956,334; Apr. 26; Sp. p. 5745; Gaz. vol. 153; p. 1000.
Boiler-tubes, Device for tightening damaged. C. F. H. Dittmann. No. 956,311; Apr. 26; Sp. p. 5701; Gaz. vol. 153; p. 992.
Boiler-tubes, Leak-stopper for. C. S. Clark. No. 955,500; Apr. 19; Sp. p. 3891; Gaz. vol. 153; p. 683.
Boiler-tubes, Tool for spreading. A. P. Gerald. No. 968,338; Aug. 23; Sp. p. 5336; Gaz. vol. 157; p. 919.
Boiler water-gage. T. R. Cook. No. 945,756; Jan. 11; Sp. p. 1664; Gaz. vol. 150; p. 279.
Boiler water-glass. L. J. Bordo. No. 973,337; Oct. 18; Sp. p. 4024; Gaz. vol. 159; p. 688.
Boiler-water-glass shield. G. H. Sargent and A. G. Hollingshead. No. 974,299; Nov. 1; Sp. p. 497; Gaz. vol. 160; p. 73.
Boiler water-level indicator. J. J. Dewey. No. 945,085; Jan. 4; Sp. p. 166; Gaz. vol. 150; p. 27.
Boilers and conserving the heat energy therein, Apparatus for recovering blow-off products from. H. L. Winslow. No. 973,603; Oct. 25; Sp. p. 4587; Gaz. vol. 159; p. 800.
Boilers and the like, Furnace of steam-. W. G. Crosthwaite. No. 957,310; May 10; Sp. p. 1756; Gaz. vol. 154; p. 307.
Boilers and the like, Rack for. W. C. Leonard. No. 972,879; Oct. 18; Sp. p. 2983; Gaz. vol. 159; p. 528.
Boilers, Apparatus for cleaning fire-tubes of. M. Domiszewski. No. 958,376; May 17; Sp. p. 4322; Gaz. vol. 154; p. 705.
Boilers, Automatic jack for engine-. C. Kent. No. 958,928; May 24; Sp. p. 5485; Gaz. vol. 154; p. 920.
Boilers, Automatic water-controller for. C. E. Lindgren. No. 974,085; Oct. 25; Sp. p. 5590; Gaz. vol. 159; p. 969.
Boilers, Brick for flame-walls of water-tube. T. G. Turner. No. 979,604; Dec. 27; Sp. p. 4731; Gaz. vol. 161; p. 830.
Boilers, Combined heating system for a plurality of. J. Schwab. No. 961,900; June 21; Sp. p. 3451; Gaz. vol. 155; p. 610.
Boilers, Composition for preventing scale in. A. M. Urista. No. 950,582; Mar. 1; Sp. p. 250; Gaz. vol. 152; p. 41.
Boilers, Draft appliance for steam-engine. J. S. Downing. No. 947,660; Jan. 25; Sp. p. 5917; Gaz. vol. 150; p. 983.
Boilers due to electrochemical action, Means for preventing the corrosion of the internal parts of. P. E. G. Cumberland. No. 948,968; Feb. 8; Sp. p. 2493; Gaz. vol. 151; p. 424.
Boilers, Fastening flues in steam-. F. Schmitt. No. 953,062; Mar. 29; Sp. p. 5327; Gaz. vol. 152; p. 981.
Boilers, Flame or baffle bridge for water-tube. A. P. Gerald. No. 975,853; Nov. 15; Sp. p. 3917; Gaz. vol. 160; p. 660.
Boilers, Heating-tube for tubular steam-. E. Pielock. No. 948,741; Feb. 8; Sp. p. 2042; Gaz. vol. 151; p. 349.
Boilers, Means for regulating pressure in steam-. J. C. Parker. No. 974,911; Nov. 8; Sp. p. 1882; Gaz. vol. 160; p. 311.
Boilers, Means for retaining heat in steam-. W. C. Clarke. No. 949,792; Feb. 22; Sp. p. 4209; Gaz. vol. 151; p. 760.
Boilers, Means for separating water from steam in steam-. D. Mills and A. J. Irvine. No. 952,831; Mar. 22; Sp. p. 4859; Gaz. vol. 152; p. 875.
Boilers, Mold for baffle-wall construction for. G. W. Laughton. No. 974,894; Nov. 8; Sp. p. 1839; Gaz. vol. 160; p. 306.
Boilers, Pressure-controlling device for. J. D. Walsh. No. 965,053; July 19; Sp. p. 4457; Gaz. vol. 156; p. 742.
Boilers, Pressure-reducing device for high-pressure. J. C. Mirick. No. 955,977; Apr. 26; Sp. p. 4962; Gaz. vol. 153; p. 877.
Boilers, Soot-ejector for water-tube. J. J. Hanlon. No. 948,761; Feb. 8; Sp. p. 2097; Gaz. vol. 151; p. 356.
Boilers, Tool for spreading tubes of water-tube. P. Heely. No. 979,162; Dec. 20; Sp. p. 3801; Gaz. vol. 161; p. 659.
Boiling-cap. W. E. Lummus. No. 973,795; Oct. 25; Sp. p. 4996; Gaz. vol. 159; p. 869.
Bolster. F. W. Bleckley. No. 946,834; Jan. 18; Sp. p. 4096; Gaz. vol. 150; p. 677.
Bolster. F. W. Bleckley. No. 946,835; Jan. 18; Sp. p. 4098; Gaz. vol. 150; p. 677.
Bolster. J. M. Rohlfing. No. 965,228; July 26; Sp. p. 4800; Gaz. vol. 156; p. 830.
Bolster. J. M. Rohlfing. No. 965,943; Aug. 2; Sp. p. 197; Gaz. vol. 157; p. 34.
Bolster. J. M. Rohlfing. No. 965,944; Aug. 2; Sp. p. 198; Gaz. vol. 157; p. 34.
Bolster. H. T. Krakau. No. 972,768; Oct. 11; Sp. p. 2726; Gaz. vol. 159; p. 464.
Bolster, Body-. O. S. Pulliam. No. 956,997; May 3; Sp. p. 1085; Gaz. vol. 154; p. 170.
Bolster-spring. H. J. Noll. No. 955,673; Apr. 19; Sp. p. 4287; Gaz. vol. 153; p. 741.
Bolt: *See* Anchor-bolt; Clutch-bolt; Concreter's bolt; Coupling-bolt; Door-bolt; Expansion-bolt; Flush bolt; Locking-bolt; Panic-bolt; Railway-rail bolt; Railway-track bolt; Ribbon-bolt; Sectional bolt; Self-locking bolt; Sliding bolt; Stay-bolt; Toggle-bolt.
Bolt. N. W. Trautner. No. 954,481; Apr. 12; Sp. p. 1673; Gaz. vol. 153; p. 303.
Bolt. R. B. Ingels. No. 960,938; June 7; Sp. p. 1391; Gaz. vol. 155; p. 235.
Bolt. E. K. Thomas. No. 966,780; Aug. 9; Sp. p. 2058; Gaz. vol. 157; p. 342.
Bolt. L. J. Nelson. No. 966,849; Aug. 9; Sp. p. 2208; Gaz. vol. 157; p. 363.
Bolt-anchor. C. J. Clements. No. 961,583; June 14; Sp. p. 2774; Gaz. vol. 155; p. 481.
Bolt-anchor. T. F. Keller. No. 966,024; Aug. 2; Sp. p. 390; Gaz. vol. 157; p. 62.
Bolt anchor, Expansion-. H. W. Pleister. No. 950,492; Mar. 1; Sp. p. 64; Gaz. vol. 152; p. 12.
Bolt-and-latch lock. P. Duret. No. 954,427; Apr. 12; Sp. p. 1542; Gaz. vol. 153; p. 283.
Bolt and nut. R. Stahl and T. H. Hunter. No. 947,602; Jan. 25; Sp. p. 5797; Gaz. vol. 150; p. 963.
Bolt and nut. J. A. Ludlow. No. 963,783; July 12; Sp. p. 1679; Gaz. vol. 156; p. 281.
Bolt and nut lock. C. H. Ferguson. No. 950,282; Feb. 22; Sp. p. 5315; Gaz. vol. 151; p. 931.
Bolt and nut lock for connecting-rods. M. W. Smith. No. 945,110; Jan. 4; Sp. p. 213; Gaz. vol. 150; p. 36.
Bolt-cleaner. J. K. Witzel. No. 954,237; Apr. 5; Sp. p. 1158; Gaz. vol. 153; p. 193.
Bolt cutting and pointing machine. A. B. Landis. No. 948,885; Feb. 8; Sp. p. 2324; Gaz. vol. 151; p. 396.
Bolt-cutting machine. A. B. Landis. No. 948,887; Feb. 8; Sp. p. 2331; Gaz. vol. 151; p. 397.
Bolt-cutting mechanism. Z. B. Coes, R. F. Scott, and C. H. Thumlert. No. 965,156; July 26; Sp. p. 4662; Gaz. vol. 156; p. 807.
Bolt-feeding machine. C. E. Mitchell. No. 976,483; Nov. 22; Sp. p. 5316; Gaz. vol. 160; p. 901.
Bolt-heading machine. S. D. and H. T. Latty. No. 948,060; Feb. 1; Sp. p. 591; Gaz. vol. 151; p. 95.
Bolt-holder. W. V. Gist. No. 960,307; June 7; Sp. p. 133; Gaz. vol. 155; p. 26.
Bolt-holder and wrench. C. E. Wood. No. 978,100; Dec. 6; Sp. p. 1460; Gaz. vol. 161; p. 235.
Bolt-jack. H. H. Smith. No. 953,106; Mar. 29; Sp. p. 5444; Gaz. vol. 152; p. 995.
Bolt lock, Wedge-. L. G. Roblin. No. 976,497; Nov. 22; Sp. p. 5344; Gaz. vol. 160; p. 906.
Bolt-machine. E. C. Henn. No. 965,184; July 26; Sp. p. 4713; Gaz. vol. 156; p. 816.
Bolt-operating-mechanism controlling device. G. L. Damon. No. 956,889; May 3; Sp. p. 850; Gaz. vol. 154; p. 135.
Bolt washer, Screw-. G. L. Hall. No. 946,127; Jan. 11; Sp. p. 2452; Gaz. vol. 150; p. 409.
Bolts in bodies of hardened plastic material, Means for securing. D. Craig. No. 977,710; Dec. 6; Sp. p. 656; Gaz. vol. 161; p. 100.
Bolts, nuts, &c., Means for protecting. A. Adam. No. 972,140; Oct. 4; Sp. p. 1354; Gaz. vol. 159; p. 228.
Bolts, Tool for upsetting and calking stay-. G. E. Wood and E. C. Meier. No. 968,625; Aug. 30; Sp. p. 5932; Gaz. vol. 157; p. 1045.
Bolter. J. Forrest. No. 965,447; July 26; Sp. p. 5288; Gaz. vol. 156; p. 904.
Bolting-machine. O. and C. H. Evans. No. 960,864; June 7; Sp. p. 1260; Gaz. vol. 155; p. 211.
Bolting-machine, Centrifugal. I. A. Chavanne and B. Ollagnier. No. 964,144; July 12; Sp. p. 2453; Gaz. vol. 156; p. 403.
Bond-tester. J. B. West. No. 957,020; May 3; Sp. p. 1130; Gaz. vol. 154; p. 178.
Bonded article and making same. G. N. Jeppson. No. 954,809; Apr. 12; Sp. p. 2438; Gaz. vol. 153; p. 416.
Bonding-pin. L. S. Bacon. No. 961,475; June 14; Sp. p. 2542; Gaz. vol. 155; p. 445.
Bone-black furnace. O. P. Nichols. No. 978,625; Dec. 13; Sp. p. 2625; Gaz. vol. 161; p. 448.
Bone-burner. V. O. Ritchay and F. W. Besselman. No. 972,023; Oct. 4; Sp. p. 1126; Gaz. vol. 159; p. 189.
Book. W. J. Walsh. No. 978,244; Dec. 13; Sp. p. 1790; Gaz. vol. 161; p. 314.
Book and album, Letter. E. Jay. No. 950,721; Mar. 1; Sp. p. 566; Gaz. vol. 152; p. 89.
Book and cover therefor, Score-. A. S. Hendry. No. 966,545; Aug. 9; Sp. p. 1533; Gaz. vol. 157; p. 262.
Book and file case, Revolving. T. H. Knight. No. 969,959; Sept. 13; Sp. p. 1773; Gaz. vol. 158; p. 301.
Book and newspaper holder. M. J. Johnson. No. 974,067; Oct. 25; Sp. p. 5561; Gaz. vol. 159; p. 963.
Book and pamphlet, Illustrated. P. S. H. Newell. No. 970,943; Sept. 20; Sp. p. 3846; Gaz. vol. 158; p. 657.
Book and type-writer stand, Combined. B. A. Davis. No. 969,247; Sept. 6; Sp. p. 215; Gaz. vol. 158; p. 35.
Book, Bill-. R. N. Pemberton. No. 966,352; Aug. 2; Sp. p. 1052; Gaz. vol. 157; p. 170.
Book, Blank. H. G. Razall. No. 958,008; May 17; Sp. p. 3305; Gaz. vol. 154; p. 576.

Alphabetical list of inventions—Continued.

Book, Check-. M. T. Levey. No. 956,861; May 3; Sp. p. 788; Gaz. vol. 154; p. 125.
Book, Check-. E. E. Hamilton. No. 961,956; June 21; Sp. p. 3576; Gaz. vol. 155; p. 630.
Book, Check-. C. W. Simpson. No. 973,310; Oct. 18; Sp. p. 3962; Gaz. vol. 159; p. 678.
Book-clasp. C. L. Baldauf. No. 964,368; July 12; Sp. p. 2890; Gaz. vol. 156; p. 477.
Book, Combination fashion and sample. H. E. Bodine. No. 958,582; May 17; Sp. p. 4721; Gaz. vol. 154; p. 775.
Book, Conductor's report-. S. E. Creasey. No. 959,470; May 31; Sp. p. 6591; Gaz. vol. 154; p. 1124.
Book, Conductor's train-. J. C. A. Crane. No. 954,853; Apr. 12; Sp. p. 2534; Gaz. vol. 153; p. 432.
Book, Copy-. H. G. Carter. No. 950,474; Mar. 1; Sp. p. 27; Gaz. vol. 152; p. 6.
Book-cover. G. V. D. Southworth. No. 961,548; June 14; Sp. p. 2711; Gaz. vol. 155; p. 470.
Book-cover, Adjustable. W. H. Smalley. No. 949,307; Feb. 15; Sp. p. 3197; Gaz. vol. 151; p. 563.
Book cover, Manifolding-sales-. F. H. Spencer. No. 960,727; June 7; Sp. p. 990; Gaz. vol. 155; p. 165.
Book-cover, Metallic. S. S. Andrews and F. Turner. No. 959,284; May 24; Sp. p. 6208; Gaz. vol. 154; p. 1037.
Book-cover protector. B. C. McAndrews. No. 949,128; Feb. 15; Sp. p. 2845; Gaz. vol. 151; p. 503.
Book device, Loose-leaf-. C. Forgerson. No. 959,849; May 31; Sp. p. 7395; Gaz. vol. 154; p. 1252.
Book, Duplex account-. K. V. Haymaker. No. 979,487; Dec. 27; Sp. p. 4463; Gaz. vol. 161; p. 789.
Book-holder. E. S. Antisdale. No. 945,257; Jan. 4; Sp. p. 524; Gaz. vol. 150; p. 86.
Book-holder. A. Peterson. No. 951,334; Mar. 8; Sp. p. 1770; Gaz. vol. 152; p. 311.
Book-holder. S. G. Eghian. No. 952,103; Mar. 15; Sp. p. 3323; Gaz. vol. 152; p. 598.
Book-holder. W. C. Traher. No. 959,405; May 24; Sp. p. 6435; Gaz. vol. 154; p. 1077.
Book-holder. A. M. Limpus. No. 965,720; July 26; Sp. p. 5892; Gaz. vol. 156; p. 1001.
Book-holder. A. G. Bauer. No. 967,877; Aug. 23; Sp. p. 4317; Gaz. vol. 157; p. 761.
Book holder, Manifolding-sales-. C. A. Monson. No. 960,030; May 31; Sp. p. 7837; Gaz. vol. 154; p. 1316.
Book holder, Sales-. N. F. Garbo. No. 958,739; May 24; Sp. p. 5044; Gaz. vol. 154; p. 852.
Book, Loose-leaf. C. H. Payne. No. 947,620; Jan. 25; Sp. p. 5838; Gaz. vol. 150; p. 969.
Book, Loose-leaf. A. L. Murphy, Sr. No. 960,672; June 7; Sp. p. 885; Gaz. vol. 155; p. 146.
Book, Loose-leaf. A. L. Murphy, Sr. No. 960,673; June 7; Sp. p. 886; Gaz. vol. 155; p. 146.
Book, Loose-leaf. J. C. Dawson. No. 966,807; Aug. 9; Sp. p. 2114; Gaz. vol. 157; p. 350.
Book, Loose-leaf. G. F. Mewes. No. 967,535; Aug. 16; Sp. p. 3633; Gaz. vol. 157; p. 624.
Book, Loose-leaf. L. D. Hamacher and C. A. Melchert. No. 968,657; Aug. 30; Sp. p. 6018; Gaz. vol. 157; p. 1056.
Book, Loose-leaf. J. C. Dawson. No. 978,707; Dec. 13; Sp. p. 2790; Gaz. vol. 161; p. 475.
Book, Loose-leaf credit-. E. H. Cooper. No. 966,736; Aug. 9; Sp. p. 1932; Gaz. vol. 157; p. 327.
Book, Loose-leaf invoice and similar. W. H. Ingraham. No. 966,098; Aug. 2; Sp. p. 539; Gaz. vol. 157; p. 88.
Book, Manifolding-. I. H. Rice. No. 952,638; Mar. 22; Sp. p. 4443; Gaz. vol. 152; p. 809.
Book, Manifolding-. P. Auscher. No. 954,246; Apr. 5; Sp. p. 1172; Gaz. vol. 153; p. 195.
Book, Manifolding-. B. C. Maxwell. No. 959,775; May 31; Sp. p. 7225; Gaz. vol. 154; p. 1226.
Book, Manifolding-. B. C. Maxwell. No. 959,776; May 31; Sp. p. 7227; Gaz. vol. 154; p. 1227.
Book, Manifolding record-. E. Z. Lewis. No. 972,550; Oct. 11; Sp. p. 2255; Gaz. vol. 159; p. 389.
Book, Manifolding sales-. E. K. Bottle. No. 973,746; Oct. 25; Sp. p. 4893; Gaz. vol. 159; p. 851.
Book-mark. G. H. Brooks. No. 955,114; Apr. 12; Sp. p. 3048; Gaz. vol. 153; p. 517.
Book-mark. L. Aray. No. 975,924; Nov. 15; Sp. p. 4063; Gaz. vol. 160; p. 685.
Book-mark and corner-protector, Combined. J. Bernhardt. No. 964,895; July 19; Sp. p. 4142; Gaz. vol. 156; p. 689.
Book-marker. T. A. Chelson and H. J. Benedict. No. 952,185; Mar. 15; Sp. p. 3471; Gaz. vol. 152; p. 625.
Book-marker. J. Jackson. No. 957,465; May 10; Sp. p. 2074; Gaz. vol. 154; p. 359.
Book or binder, Loose-sheet. E. Jay. No. 963,575; July 5; Sp. p. 1234; Gaz. vol. 156; p. 189.
Book or pad, Manifolding. B. C. Maxwell. No. 957,233; May 10; Sp. p. 1589; Gaz. vol. 154; p. 281.
Book or pad, Manifolding. B. C. Maxwell. No. 973,527; Oct. 25; Sp. p. 4439; Gaz. vol. 159; p. 775.
Book or pad, Manifolding. B. C. Maxwell. No. 974,102; Oct. 25; Sp. p. 5622; Gaz. vol. 159; p. 975.
Book or pad, Triplicate manifolding. F. J. Krueger. No. 971,283; Sept. 27; Sp. p. 4556; Gaz. vol. 158; p. 797.
Book, Pass-. F. J. Hicks. No. 961,857; June 21; Sp. p. 3372; Gaz. vol. 155; p. 597.
Book-rack. T. E. Layton. No. 945,333; Jan. 4; Sp. p. 720; Gaz. vol. 150; p. 110.
Book-rack. E. Oldenbusch. No. 952,839; Mar. 22; Sp. p. 4876; Gaz. vol. 152; p. 878.
Book, Record-. B. W. Mulkey. No. 971,396; Sept. 27; Sp. p. 4768; Gaz. vol. 158; p. 834.
Book, Renewal check-. H. F. Johnson. No. 953,956; Apr. 5; Sp. p. 534; Gaz. vol. 153; p. 97.
Book-rest. E. C. Lockwood. No. 975,140; Nov. 8; Sp. p. 2406; Gaz. vol. 160; p. 391.
Book rest and marker, Combined. S. J. Connies. No. 953,409; Mar. 29; Sp. p. 6099; Gaz. vol. 152; p. 1095.
Book, Sample-card. J. A. Soderstrom. No. 959,632; May 31; Sp. p. 6931; Gaz. vol. 154; p. 1180.
Book, Self-indexing. J. B. Perrine. No. 960,693; June 7; Sp. p. 928; Gaz. vol. 155; p. 154.
Book-smashing machine. S. K. White. No. 958,787; May 24; Sp. p. 5157; Gaz. vol. 154; p. 869.
Book-stack. F. W. Smith and W. J. Stilling. No. 947,583; Jan. 25; Sp. p. 5757; Gaz. vol. 150; p. 957.
Book-stack. R. O. Wheeler. No. 969,822; Sept. 13; Sp. p. 1472; Gaz. vol. 158; p. 254.
Book-support. J. E. Benjamin. No. 949,054; Feb. 15; Sp. p. 2691; Gaz. vol. 151; p. 479.
Book support and holder, Combined. G. O. Moody. No. 967,218; Aug. 16; Sp. p. 2975; Gaz. vol. 157; p. 515.
Books and the like, Making scrap-. T. E. Layton. No. 960,352; June 7; Sp. p. 234; Gaz. vol. 155; p. 40.
Books, Fitting for loose-leaf. A. T. Warne. No. 970,582; Sept. 20; Sp. p. 3065; Gaz. vol. 158; p. 534.
Books, Machine for making head-bands for. A. G. Hoelscher. No. 965,901; Aug. 2; Sp. p. 117; Gaz. vol. 157; p. 20.
Books, Making invoice and scrap. W. G. Butler. No. 970,682; Sept. 20; Sp. p. 3306; Gaz. vol. 158; p. 568.
Books, papers, &c., Adjustable support for. C. T. Hard. No. 958,637; May 17; Sp. p. 4828; Gaz. vol. 154; p. 793.
Bookbinder. C. H. Hoyt. No. 977,873; Dec. 6; Sp. p. 988; Gaz. vol. 161; p. 155.
Bookbinder's appliance. G. D. Steere. No. 962,867; June 28; Sp. p. 5543; Gaz. vol. 155; p. 969.
Bookbinder's gluing-press. J. Giesecke, B. F. Nebergall, and G. F. Oheim. No. 972,617; Oct. 11; Sp. p. 2422; Gaz. vol. 159; p. 413.
Bookbinder's perforating-machine. C. F. McBee. No. 949,195; Feb. 15; Sp. p. 2970; Gaz. vol. 151; p. 526.
Bookbinding. C. R. Duryea. No. 951,436; Mar. 8; Sp. p. 1983; Gaz. vol. 152; p. 345.
Bookbinding. M. C. Neuner. No. 951,885; Mar. 15; Sp. p. 2907; Gaz. vol. 152; p. 527.
Bookbinding. E. J. Sullivan. No. 956,608; May 3; Sp. p. 221; Gaz. vol. 154; p. 38.
Bookbinding. W. S. Proudfit, Jr. No. 958,170; May 17; Sp. p. 3750; Gaz. vol. 154; p. 634.
Bookbinding, Temporary. C. F. McBee. No. 971,294; Sept. 27; Sp. p. 4573; Gaz. vol. 158; p. 801.
Bookbinding, Tooling-machine for. T. V. Bell. No. 979,367; Dec. 20; Sp. p. 4208; Gaz. vol. 161; p. 725.
Bookcase, Sectional. D. W. Bair. No. 946,872; Jan. 18; Sp. p. 4193; Gaz. vol. 150; p. 691.
Bookkceper's loose-sheet holder. A. O. Krieger. No. 971,542; Oct. 4; Sp. p. 69; Gaz. vol. 159; p. 14.
Booklet, Loose-leaf. L. F. Smith. No. 964,189; July 12; Sp. p. 2529; Gaz. vol. 156; p. 416.
Boot. E. Daniel. No. 951,986; Mar. 15; Sp. p. 3105; Gaz. vol. 152; p. 560.
Boot and shoe. W. J. MacFarland and C. H. Baker. No. 954,749; Apr. 12; Sp. p. 2286; Gaz. vol. 153; p. 396.
Boot and shoe. F. W. Savage. No. 967,064; Aug. 9; Sp. p. 2649; Gaz. vol. 157; p. 436.
Boot and shoe. J. Jepperson. No. 968,359; Aug. 23; Sp. p. 5374; Gaz. vol. 157; p. 927.
Boot and shoe. H. H. Schwartz. No. 973,077; Oct. 18; Sp. p. 3447; Gaz. vol. 159; p. 597.
Boot and shoe buffing machine. T. G. Plant. No. 958,288; May 17; Sp. p. 4042; Gaz. vol. 154; p. 673.
Boot and shoe channeling machine. G. F. Stewart. No. 958,027; May 17; Sp. p. 3355; Gaz. vol. 154; p. 583.
Boot and shoe cleaner. G. E. Sipherd. No. 965,029; July 19; Sp. p. 4399; Gaz. vol. 156; p. 734.
Boot and shoe construction. J. T. Woolston. No. 974,732; Nov. 1; Sp. p. 1477; Gaz. vol. 160; p. 228.
Boot and shoe cutting machine. E. R. Shaw. No. 967,577; Aug. 16; Sp. p. 3714; Gaz. vol. 157; p. 639.
Boot and shoe edge trimming machine. A. S. Vose. No. 949,047; Feb. 15; Sp. p. 2679; Gaz. vol. 151; p. 477.
Boot and shoe form. M. Brock. No. 965,865; Aug. 2; Sp. p. 34; Gaz. vol. 157; p. 8.
Boot and shoe form holder. J. S. Hansen. No. 979,851; Dec. 27; Sp. p. 5279; Gaz. vol. 161; p. 814.
Boot and shoe ironing and dressing jack. T. G. Plant. No. 958,287; May 17; Sp. p. 4035; Gaz. vol. 154; p. 673.
Boot and shoe machine. T. G. Plant. No. 958,289; May 17; Sp. p. 4044; Gaz. vol. 154; p. 674.
Boot and shoe machine work-support. W. C. Stewart. No. 958,042; May 17; Sp. p. 3447; Gaz. vol 154; p. 590.
Boot and shoe polishing machine. J. A. Choquette and J. C. Dallas. No. 968,540; Aug. 30; Sp. p. 5762; Gaz. vol. 157; p. 1014.
Boot and shoe protector. C. B. Reese. No. 977,399; Nov. 29; Sp. p. 7340; Gaz. vol. 160; p. 1241.
Boot and shoe protector setting machine. H. W. Winter. No. 973,604; Oct. 25; Sp. p. 4598; Gaz. vol. 159; p. 801.

Alphabetical list of inventions—Continued.

Boot and shoe shanks, Forming. J. E. Davidson. No. 978,278; Dec. 13; Sp. p. 1871; Gaz. vol. 161; p. 328.
Boot and shoe tree. T. G. Stevens and C. Wakefield. No. 945,202; Jan. 4; Sp. p. 409; Gaz. vol. 150; p. 67.
Boot and shoe tree. C. A. Batchelder. No. 970,165; Sept. 13; Sp. p. 2177; Gaz. vol. 158; p. 371.
Boot and shoe uppers, Forming. K. Engel. No. 947,895; Feb. 1; Sp. p. 249; Gaz. vol. 151; p. 41.
Boot and shoe welt. G. F. Dunn. No. 963,694; July 5; Sp. p. 1468; Gaz. vol. 156; p. 228.
Boot-black stand. E. W. Purves. No. 970,265; Sept. 13; Sp. p. 2414; Gaz. vol. 158; p. 407.
Boot-black stand and foot-rest. E. Riebel. No. 946,564; Jan. 18; Sp. p. 3485; Gaz. vol. 150; p. 586.
Boot-lace and necktie clip or fastener. C. J. F. Highfield. No. 960,013; May 31; Sp. p. 7785; Gaz. vol. 154; p. 1310.
Boot or shoe. D. E. Little. No. 966,340; Aug. 2; Sp. p. 1023; Gaz. vol. 157; p. 166.
Boot or shoe attachment. C. Waldstein. No. 958,984; May 24; Sp. p. 5586; Gaz. vol. 154; p. 539.
Boot or shoe caps, Manufacture of. V. Frey. No. 976,451; Nov. 22; Sp. p. 5249; Gaz. vol. 160; p. 891.
Boot tree or last. W. W. Duncan. No. 950,379; Feb. 22; Sp. p. 5495; Gaz. vol. 151; p. 962.
Boot-treeing machine. H. H. Cummings. No. 945,306; Jan. 4; Sp. p. 655; Gaz. vol. 150; p. 102.
Boot, Waterproof. F. W. Savage. No. 966,774; Aug. 9; Sp. p. 2049; Gaz. vol. 157; p. 341.
Boots and shoes, Machine for operating on the bottoms of. T. G. Plant. No. 958,306; May 17; Sp. p. 4158; Gaz. vol. 154; p. 681.
Boots and shoes, Machine for tempering outsoles of. G. T. McLeod. No. 957,992; May 17; Sp. p. 3246; Gaz. vol. 154; p. 570.
Boots and shoes, Machine for the manufacture of. J. N. Busell. No. 961,752; June 21; Sp. p. 3119; Gaz. vol. 155; p. 562.
Boots and shoes, Machine having a vibrating tool employed in the manufacture of. A. Bates. No. 979,249; Dec. 20; Sp. p. 3995; Gaz. vol. 161; p. 687.
Boots and shoes, Manufacture of. J. Micheel. No. 978,324; Dec. 13; Sp. p. 1966; Gaz. vol. 161; p. 343.
Boots and shoes, Pulling-over machine for. J. J. Heys. No. 957,955; May 17; Sp. p. 3115; Gaz. vol. 154; p. 556.
Boots and shoes, Ventilating-oversock for. H. M. Guenther. No. 945,036; Jan. 4; Sp. p. 59; Gaz. vol. 150; p. 11.
Boots by means of spring-buttons, System for closing. L. J. M. Delaveau. No. 973,012; Oct. 18; Sp. p. 3314; Gaz. vol. 159; p. 576.
Boots or shoes and producing same, Covered strap for. L. A. Gale. No. 968,461; Aug. 23; Sp. p. 5572; Gaz. vol. 157; p. 961.
Bootjack and foot-rest, Combined. H. Seckendorff. No. 960,042; May 31; Sp. p. 7867; Gaz. vol. 154; p. 1321.
Boring-bar. R. J. Mason. No. 955,180; Apr. 19; Sp. p. 3195; Gaz. vol. 153; p. 574.
Boring device. E. M. Cobb. No. 976,635; Nov. 22; Sp. p. 5634; Gaz. vol. 160; p. 952.
Boring drill, Roller-. H. R. Hughes. No. 979,496; Dec. 27; Sp. p. 4479; Gaz. vol. 161; p. 792.
Boring implement. J. W. Riggle and B. D. Snyder. No. 950,542; Mar. 1; Sp. p. 167; Gaz. vol. 152; p. 28.
Boring-machine. J. H. Parman. No. 946,984; Jan. 18; Sp. p. 4420; Gaz. vol. 150; p. 727.
Boring-machine. S. F. Waddell. No. 947,138; Jan. 18; Sp. p. 4698; Gaz. vol. 150; p. 776.
Boring-machine. E. G. Schillo. No. 949,689; Feb. 15; Sp. p. 3960; Gaz. vol. 151; p. 690.
Boring-machine. E. Prescott. No. 957,090; May 3; Sp. p. 1271; Gaz. vol. 154; p. 201.
Boring-machine. G. H. Smith. No. 959,083; May 24; Sp. p. 5796; Gaz. vol. 154; p. 971.
Boring-machine. F. Fischer. No. 966,816; Aug. 9; Sp. p. 2142; Gaz. vol. 157; p. 353.
Boring-machine. J. P. Weddle and G. A. Robinson. No 968,298; Aug. 23; Sp. p. 5257; Gaz. vol. 157; p. 905.
Boring-machine. L. W. Jones. No. 969,632; Sept. 6; Sp. p. 1023; Gaz. vol. 158; p. 164.
Boring-machine. J. W. Ogle. No. 973,136; Oct. 18; Sp. p. 3583; Gaz. vol. 159; p. 618.
Boring machine, Angle-. L. M. Keithley and A. E. Schien. No. 960,097; May 31; Sp. p. 7967; Gaz. vol. 154; p. 1338.
Boring-machine, Portable. L. Dailey. No. 960,002; May 31; Sp. p. 7757; Gaz. vol. 154; p. 1307.
Boring machine, Taper-. R. R. Kuss. No. 962,848; June 28; Sp. p. 5497; Gaz. vol. 155; p. 961.
Boring or drilling bit. W. Geddes. No. 960,635; June 7; Sp. p. 814; Gaz. vol. 155; p. 133.
Boring or drilling machine. W. T. Sears and H. J. Ruch. No. 953,183; Mar. 29; Sp. p. 5607; Gaz. vol. 152; p. 1019.
Boring or milling cutters, Manufacturing. J. G. Matthews. No. 949,377; Feb. 15; Sp. p. 3363; Gaz. vol. 151; p. 588.
Boring, reaming, and tapping machine. T. M. Boggs. No. 979,418; Dec. 27; Sp. p. 4315; Gaz. vol. 161; p. 765.
Boring-tool. T. S. Halliwell and H. B. Maschmeier. No. 958,112; May 17; Sp. p. 3631; Gaz. vol. 154; p. 612.
Boring-tool. O. B. Elder. No. 963,022; June 28; Sp. p. 5824; Gaz. vol. 155; p. 1019.
Boring-tool. T. J. Hines. No. 963,559; July 5; Sp. p. 1193; Gaz. vol. 156; p. 184.
Boring-tool. L. K. Snell and W. E. Wilber. No. 967,255; Aug. 16; Sp. p. 3056; Gaz. vol. 157; p. 529.
Boring-tools, Angle guide attachment for. W. H. Whigham. No. 970,360; Sept. 13; Sp. p. 2588; Gaz. vol. 158; p. 437.
Borneol to camphor, Oxidizing. G. Austerweil. No. 979,247; Dec. 20; Sp. p. 3993; Gaz. vol. 161; p. 687.
Bottle. F. E. Scotford. No. 947,421; Jan. 25; Sp. p. 5383; Gaz. vol. 150; p. 902.
Bottle. F. Blumenthal. No. 948,809; Feb. 8; Sp. p. 2191; Gaz. vol. 151; p. 372.
Bottle. J. E. Campbell. No. 948,919; Feb. 8; Sp. p. 2394; Gaz. vol. 151; p. 407.
Bottle. J. Auger. No. 949,873; Feb. 22; Sp. p. 4408; Gaz. vol. 151; p. 789.
Bottle. G. Hall. No. 950,446; Feb. 22; Sp. p. 5614; Gaz. vol. 151; p. 984.
Bottle. W. P. Bebler. No. 955,309; Apr. 19; Sp. p. 3480; Gaz. vol. 153; p. 618.
Bottle. L. R. Steel. No. 957,809; May 10; Sp. p. 2774; Gaz. vol. 154; p. 476.
Bottle. F. McCarron. No. 964,044; July 12; Sp. p. 2240; Gaz. vol. 156; p. 369.
Bottle. J. H. Graham. No. 978,736; Dec. 13; Sp. p. 2862; Gaz. vol. 161; p. 484.
Bottle. G. M. McNally. No. 979,018; Dec. 20; Sp. p 3456; Gaz. vol. 161; p. 606.
Bottle and attachment therefor. C. A. Hervey. No. 960,918; June 7; Sp. p. 1356; Gaz. vol. 155; p. 228.
Bottle and jar cleansing apparatus. G. E. Gordon. No. 979,842; Dec. 27; Sp. p. 5261; Gaz. vol. 161; p. 911.
Bottle and jar closure. P. J. O'Brien. No. 970,538; Sept. 20; Sp. p. 2973; Gaz. vol. 158; p. 519.
Bottle and lamp-chimney cleaner. P. Buck. No. 973,911; Oct. 25; Sp. p. 5245; Gaz. vol. 159; p. 909.
Bottle and lid. F. C. Borgmeyer. No. 949,644; Feb. 15; Sp. p. 3885; Gaz. vol. 151; p. 677.
Bottle and nipple, Nursing. D. B. Smith. No. 956,741; May 3; Sp. p. 514; Gaz. vol. 154; p. 83.
Bottle and stopper. A. T. Wannenwetsch. No. 952,287; Mar. 15; Sp. p. 3691; Gaz. vol. 152; p. 660.
Bottle and stopper. M. Pilz. No. 958,169; May 17; Sp. p. 3749; Gaz. vol. 154; p. 634.
Bottle and stopper therefor. W. Douglas. No. 955,772; Apr. 19; Sp. p. 4490; Gaz. vol. 153; p. 775.
Bottle and syringe-reservoir, Combined hot-water. S. L. Axford. No. 951,044; Mar. 1; Sp. p. 1180; Gaz. vol. 152; p. 193.
Bottle annealing and delivering machine. J. Horvath. No. 953,337; Mar. 29; Sp. p. 5929; Gaz. vol. 152; p. 1070.
Bottle, Antirefillable. H. N. Cupp. No. 963,524; July 5; Sp. p. 1131; Gaz. vol. 156; p. 172.
Bottle, Antirefillable. P. Fuzy. No. 964,858; July 19; Sp. p. 4064; Gaz. vol. 156; p. 677.
Bottle, Antirefillable. J. H. Quinn. No. 970,392; Sept. 13; Sp. p. 2653; Gaz. vol. 158; p. 448.
Bottle attachment. E. W. Becker. No. 945,679; Jan. 4; Sp. p. 1437; Gaz. vol. 150; p. 224.
Bottle attachment. V. Xicovich. No. 956,466; Apr. 26; Sp. p. 6021; Gaz. vol. 153; p. 1045.
Bottle attachment, Milk-. T. J. Reynolds. No. 958,312; May 17; Sp. p. 4187; Gaz. vol. 154; p. 683.
Bottle attachment, Poison-. L. Inglee and C. M. Hart. No. 950,484; Mar. 1; Sp. p. 42; Gaz. vol. 152; p. 9.
Bottle-bodies for the insertion of closures, Device for holding. C. F. Jenkins. No. 958,252; May 17; Sp. p. 3923; Gaz. vol. 154; p. 660.
Bottle-box. M. F. Flynn. No. 945,121; Jan. 4; Sp. p. 233; Gaz. vol. 150; p. 40.
Bottle-brushing machine. J. W. Dawson. No. 973,178; Oct. 18; Sp. p. 3695; Gaz. vol. 159; p. 633.
Bottle-cap. A. Calleson. No. 955,380; Apr. 19; Sp. p. 3637; Gaz. vol. 153; p. 641.
Bottle-cap. B. L. Weil. No. 967,593; Aug. 16; Sp. p. 3748; Gaz. vol. 157; p. 644.
Bottle-cap-assembling machine. B. Adriance and A. Calleson. No. 947,272; Jan. 25; Sp. p. 5021; Gaz. vol. 150; p. 850.
Bottle-cap container. F. Recht. No. 947,847; Feb. 1; Sp. p. 148; Gaz. vol. 151; p. 25.
Bottle-cap lifter. W. R. Clough. No. 950,509; Mar. 1; Sp. p. 102; Gaz. vol. 152; p. 17.
Bottle-cap-making machine. R. B. Cochran. No. 956,887; May 3; Sp. p. 845; Gaz. vol. 154; p. 134.
Bottle-cap remover and stopper, Combined. A. R. Hoeft. No. 959,220; May 24; Sp. p. 6075; Gaz. vol. 154; p. 1016.
Bottle-caps, Apparatus for making and inserting. C. F. Jenkins. No. 950,022; Feb. 22; Sp. p. 4793; Gaz. vol. 151; p. 843.
Bottle-caps, Machine for applying. J. M. Stark and T. L. Turner. No. 958,333; May 17; Sp. p. 4236; Gaz. vol. 154; p. 691.
Bottle-caps, Tool for applying. J. E. Abrams and J. C. Taliaferro. No. 949,609; Feb. 15; Sp. p. 3819; Gaz. vol. 151; p. 665.

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Bottle-capper. H. A. Olsson. No. 968,792; Aug. 30; Sp. p. 6319; Gaz. vol. 157; p. 1102.
Bottle-capping device. C. W. Carey. No. 979,378; Dec. 20; Sp. p. 4227; Gaz. vol. 161; p. 728.
Bottle-capping head. H. E. Marshall and J. Schlagel. No. 964,926; July 19; Sp. p. 4201; Gaz. vol. 156; p. 701.
Bottle-capping machine. G. Kirkegaard. No. 946,138; Jan. 11; Sp. p. 2472; Gaz. vol. 150; p. 413.
Bottle-capping machine. F. C. H. Strasburger. No. 948,461; Feb. 8; Sp. p. 1423; Gaz. vol. 151; p. 254.
Bottle-capping machine. R. B. Yerby. No. 948,569; Feb. 8; Sp. p. 1669; Gaz. vol. 151; p. 291.
Bottle-capping machine. E. Dray. No. 949,417; Feb. 15; Sp. p. 3452; Gaz. vol. 151; p. 602.
Bottle-capping machine. R. Littler. No. 951,015; Mar. 1; Sp. p. 1133; Gaz. vol. 152; p. 184.
Bottle-capping machine. J. A. McAnulty. No. 954,685; Apr. 12; Sp. p. 2123; Gaz. vol. 153; p. 372.
Bottle-capping machine. L. C. Krummel and J. C. Taliaferro. No. 960,960; June 7; Sp. p. 1440; Gaz. vol. 155; p. 242.
Bottle-capping machine. G. Kirkegaard. No. 962,029; June 21; Sp. p. 3720; Gaz. vol. 155; p. 653.
Bottle-capping machine. R. W. Wittemann. No. 963,017; June 28; Sp. p. 5811; Gaz. vol. 155; p. 1018.
Bottle-capping machine. H. E. Marshall. No. 964,925; July 19; Sp. p. 4198; Gaz. vol. 156; p. 700.
Bottle-capping machine. H. A. Olsson. No. 968,791; Aug. 30; Sp. p. 6313; Gaz. vol. 157; p. 1101.
Bottle-capping machine. J. H. Baltzley, Jr. No. 977,581; Dec. 6; Sp. p. 377; Gaz. vol. 161; p. 55.
Bottle-capping machine. C. F. Jenkins. No. 979,766; Dec. 27; Sp. p. 5081; Gaz. vol. 161; p. 885.
Bottle-capping-machine feeding mechanism. G. Kirkegaard. No. 962,030; June 21; Sp. p. 3722; Gaz. vol. 155; p. 654.
Bottle-capping machine, Milk-. D. S. Yard. No. 959,038; May 24; Sp. p. 5690; Gaz. vol. 154; p. 956.
Bottle-capping machines, Bottle rest or guide for. W. Nottberg and W. Lehmann. No. 949,712; Feb. 15; Sp. p. 4010; Gaz. vol. 151; p. 698.
Bottle-capping machines, Compensating device for. L. Bartlett. No. 957,926; May 17; Sp. p. 3044; Gaz. vol. 154; p. 546.
Bottle-capping machines, Compensating device for. L. Bartlett. No. 957,927; May 17; Sp. p. 3045; Gaz. vol. 154; p. 546.
Bottle-capping machines, Compensating device for. L. Bartlett. No. 957,928; May 17; Sp. p. 3046; Gaz. vol. 154; p. 547.
Bottle-capping machines, Guard attachment for. L. Röd and A. F. Atwood. No. 963,181; July 5; Sp. p. 393; Gaz. vol. 156; p. 55.
Bottle-carrying case. H. A. and H. C. Peterman. No. 978,825; Dec. 13; Sp. p. 3013; Gaz. vol. 161; p. 511.
Bottle-case. L. Sochurek. No. 966,259; Aug. 2; Sp. p. 887; Gaz. vol. 157; p. 141.
Bottle case, Milk and other. H. A. and H. C. Peterman. No. 950,863; Mar. 1; Sp. p. 853; Gaz. vol. 152; p. 136.
Bottle-cleaning machine, Brush. C. Buchheit. No. 957,301; May 10; Sp. p. 1745; Gaz. vol. 154; p. 305.
Bottle-cleansing apparatus. O. Eick. No. 947,151; Jan. 18; Sp. p. 4722; Gaz. vol. 150; p. 780.
Bottle-closing apparatus. C. W. V. Messerschmidt. No. 955,891; Apr. 26; Sp. p. 4785; Gaz. vol. 153; p. 847.
Bottle-closing device. C. F. Jenkins. No. 954,109; Apr. 5; Sp. p. 862; Gaz. vol. 153; p. 149.
Bottle-closure. F. A. Anthony and J. P. Cregg. No. 956,923; May 3; Sp. p. 921; Gaz. vol. 154; p. 146.
Bottle-closure. J. W. Hughes and D. T. Borden. No. 968,947; Aug. 30; Sp. p. 6625; Gaz. vol. 157; p. 1154.
Bottle-closure. G. M. Donaldson. No. 969,350; Sept. 6; Sp. p. 422; Gaz. vol. 158; p. 68.
Bottle-closure. C. J. Henry. No. 969,621; Sept. 6; Sp. p. 1006; Gaz. vol. 158; p. 160.
Bottle-closure. F. E. Joselin. No. 970,234; Sept. 13; Sp. p. 2346; Gaz. vol. 158; p. 396.
Bottle-closure. L. Huethwohl. No. 978,164; Dec. 13; Sp. p. 1623; Gaz. vol. 161; p. 287.
Bottle-closure. L. Walton. No. 979,233; Dec. 20; Sp. p. 3953; Gaz. vol. 161; p. 682.
Bottle closure and seal. R. T. Taylor. No. 962,396; June 21; Sp. p. 4514; Gaz. vol. 155; p. 779.
Bottle closure, Wide-mouthed-. R. Zastrow. No. 953,730; Apr. 5; Sp. p. 94; Gaz. vol. 153; p. 19.
Bottle-closures, Means for attaching. S. J. C. Wilkinson. No. 965,784; July 26; Sp. p. 6023; Gaz. vol. 156; p. 1023.
Bottle-cooler. H. A. Tomppert. No. 954,598; Apr. 12; Sp. p. 1925; Gaz. vol. 153; p. 342.
Bottle-cooling device. J. J. Lane. No. 965,307; July 26; Sp. p. 4981; Gaz. vol. 156; p. 857.
Bottle-cover-fastening device. L. Blumenthal. No. 978,109; Dec. 6; Sp. p. 1474; Gaz. vol. 161; p. 238.
Bottle cover, Nursing-. F. O. Janssen. No. 978,892; Dec. 20; Sp. p. 3157; Gaz. vol. 161; p. 561.
Bottle-dam. W. S. Gray. No. 960,894; June 7; Sp. p. 1319; Gaz. vol. 155; p. 221.
Bottle ends with tin-foil, Machine for closing. T. K. Keith. No. 955,270; Apr. 19; Sp. p. 3397; Gaz. vol. 153; p. 605.
Bottle-filler. J. Willmann. No. 969,017; Aug. 30; Sp. p. 6759; Gaz. vol. 157; p. 1178.
Bottle filler, Siphon-. G. L. Kennedy. No. 962,027; June 21; Sp. p. 3717; Gaz. vol. 155; p. 653.
Bottle filling and capping apparatus. H. D. Naum. No. 969,391; Sept. 6; Sp. p. 512; Gaz. vol. 158; p. 82.
Bottle-filling device. A. R. Scutt. No. 950,161; Feb. 22; Sp. p. 5064; Gaz. vol. 151; p. 889.
Bottle-filling machine. J. H. Champ. No. 956,285; Apr. 26; Sp. p. 5629; Gaz. vol. 153; p. 983.
Bottle-filling machine. J. H. Champ. No. 956,286; Apr. 26; Sp. p. 5640; Gaz. vol. 153; p. 983.
Bottle-filling machine. C. F. McEwan. No. 959,577; May 31; Sp. p. 6824; Gaz. vol. 154; p. 1162.
Bottle-filling machine. B. Gallagher. No. 962,564; June 28; Sp. p. 4931; Gaz. vol. 155; p. 863.
Bottle-filling machine. J. Nader. No. 963,801; July 12; Sp. p. 1724; Gaz. vol. 156; p. 287.
Bottle-filling machine. H. W. Van Leir. No. 966,270; Aug. 2; Sp. p. 903; Gaz. vol. 157; p. 144.
Bottle-filling machine. F. C. Stöckel and J. L. T. Popp. No. 969,572; Sept. 6; Sp. p. 903; Gaz. vol. 158; p. 143.
Bottle-filling machine. C. L. Bastian. No. 971,962; Oct. 4; Sp. p. 1014; Gaz. vol. 159; p. 168.
Bottle-filling machines, Centering-bell for. F. C. H. Strasburger. No. 947,314; Jan. 25; Sp. p. 5129; Gaz. vol. 150; p. 866.
Bottle for adhesive liquids. N. C. Phillips. No. 973,066; Oct. 18; Sp. p. 3433; Gaz. vol. 159; p. 594.
Bottle for children, Feeding-. P. Bruders. No. 953,256; Mar. 29; Sp. p. 5765; Gaz. vol. 152; p. 1043.
Bottle-handling device. T. Holz. No. 965,629; July 26; Sp. p. 5708; Gaz. vol. 156; p. 970.
Bottle-holder. T. W. Green. No. 950,790; Mar. 1; Sp. p. 714; Gaz. vol. 152; p. 114.
Bottle-holder. A. H. Allen. No. 956,749; May 3; Sp. p. 528; Gaz. vol. 154; p. 86.
Bottle-holder. W. P. Ries. No. 961,647; June 14; Sp. p. 2905; Gaz. vol. 155; p. 502.
Bottle holder and lock, Milk-. M. C. Randolph. No. 957,712; May 10; Sp. p. 2568; Gaz. vol. 154; p. 444.
Bottle-holder for cork-pullers and other machinery. E. Walker. No. 964,588; July 19; Sp. p. 3415; Gaz. vol. 156; p. 583.
Bottle holder, Milk-. F. M. Furber. No. 952,107; Mar. 15; Sp. p. 3329; Gaz. vol. 152; p. 599.
Bottle holder, Milk-. W. C. Whittemore. No. 978,972; Dec. 20; Sp. p. 3356; Gaz. vol. 161; p. 590.
Bottle, Indicating-. W. T. Cassidy. No. 962,004; June 21; Sp. p. 3670; Gaz. vol. 155; p. 645.
Bottle, Ink-. W Sundquist. No. 963,660; July 5; Sp. p. 1391; Gaz. vol. 156; p. 217.
Bottle, jar, and like cover. W. E. File. No. 950,749; Mar. 1; Sp. p. 622; Gaz. vol. 152; p. 99.
Bottle-lip-protecting device, Sanitary. W. B. Degan. No. 960,842; June 7; Sp. p. 1219; Gaz. vol. 155; p. 203.
Bottle-lip protector, Sanitary. W. B. Degan. No. 960,843; June 7; Sp. p. 1220; Gaz. vol. 155; p. 203.
Bottle-making machine. L. P. Brown. No. 968,535; Aug. 30; Sp. p. 5744; Gaz. vol. 157; p. 1013.
Bottle, Milk-. T. L. Camier. No. 945,220; Jan. 4; Sp. p. 445; Gaz. vol. 150; p. 74.
Bottle, Milk-. H. R. Schiff. No. 968,425; Aug. 23; Sp. p. 5504; Gaz. vol. 157; p. 949.
Bottle, Milk-testing. A. Jensen. No. 956,708; May 3; Sp. p. 450; Gaz. vol. 154; p. 72.
Bottle-neck and the like for use with correspondingly-ground stoppers, Ground. C. M. Conradson. No. 953,123; Mar. 29; Sp. p. 5481; Gaz. vol. 152; p. 1000.
Bottle-neck-forming tool. G. E. Bolton. No. 947,632; Jan. 25; Sp. p. 5858; Gaz. vol. 150; p. 973.
Bottle-necks, &c., Ground stopper for use with correspondingly-ground. C. M. Conradson. No. 953,124; Mar. 29; Sp. p. 5482; Gaz. vol. 152; p. 1000.
Bottle, Non-refillable. J. T. Holtfoth and E. T. Remisch. No. 945,168; Jan. 4; Sp. p. 332; Gaz. vol. 150; p. 56.
Bottle, Non-refillable. D. A. Hoyer. No. 945,541; Jan. 4; Sp p. 1154; Gaz. vol. 150; p. 178.
Bottle, Non-refillable. C. V. Shaw. No. 945,620; Jan. 4; Sp. p. 1306; Gaz. vol. 150; p. 205.
Bottle, Non-refillable. J. Bjorklund. No. 946,954; Jan. 18; Sp. p. 4363; Gaz. vol. 150; p. 717.
Bottle, Non-refillable. F. Lenzi. No. 947,110; Jan. 18; Sp. p. 4656; Gaz. vol. 150; p. 768.
Bottle, Non-refillable. G. A. Roberts. No. 947,852; Feb. 1; Sp. p. 159; Gaz. vol. 151; p. 26.
Bottle, Non-refillable. G. H. Gumbel. No. 948,420; Feb. 8; Sp. p. 1347; Gaz. vol. 151; p. 241.
Bottle, Non-refillable. H. E. Walker. No. 948,536; Feb. 8; Sp. p. 1588; Gaz. vol. 151; p. 280.
Bottle, Non-refillable. J. P. Boardman. No. 948,915; Feb. 8; Sp. p. 2387; Gaz. vol. 151; p. 406.
Bottle, Non-refillable. H. Corrigan. No. 949,220; Feb. 15; Sp. p. 3008; Gaz. vol. 151; p. 534.

Alphabetical list of inventions—Continued.

Bottle, Non-refillable. J. F. Fitzgerald. No. 950,479; Mar. 1; Sp. p. 34; Gaz. vol. 152; p. 7.
Bottle, Non-refillable. L. J. Loeffelman. No. 951,424; Mar. 8; Sp. p. 1960; Gaz. vol. 152; p. 341.
Bottle, Non-refillable. H. S. Cronk. No. 951,939; Mar. 15; Sp. p. 3014; Gaz. vol. 152; p. 546.
Bottle, Non-refillable. S. O. Martin. No. 951,957; Mar. 15; Sp. p. 3045; Gaz. vol. 152; p. 551.
Bottle, Non-refillable. F. Adams. No. 952,400; Mar. 15; Sp. p. 3897; Gaz. vol. 152; p. 697.
Bottle, Non-refillable. R. Williams. No. 953,880; Apr. 5; Sp. p. 391; Gaz. vol. 153; p. 71.
Bottle, Non-refillable. B. E. Paul. No. 954,044; Apr. 5; Sp. p. 723; Gaz. vol. 153; p. 127.
Bottle, Non-refillable. L. Anderson. No. 954,244; Apr. 5; Sp. p. 1170; Gaz. vol. 153; p. 195.
Bottle, Non-refillable. J. Stephen. No. 955,919; Apr. 26; Sp. p. 4835; Gaz. vol. 153; p. 855.
Bottle, Non-refillable. M. Perez. No. 956,597; May 3; Sp. p. 194; Gaz. vol. 154; p. 33.
Bottle, Non-refillable. W. J. Burleigh. No. 958,588; May 17; Sp. p. 4732; Gaz. vol. 154; p. 777.
Bottle, Non-refillable. W. C. Wilson. No. 959,186; May 24; Sp. p. 6015; Gaz. vol. 154; p. 1005.
Bottle, Non-refillable. C. Councell. No. 959,201; May 24; Sp. p. 6041; Gaz. vol. 154; p. 1009.
Bottle, Non-refillable. L. M. Packard. No. 959,792; May 31; Sp. p. 7270; Gaz. vol. 154; p. 1232.
Bottle, Non-refillable. A. W. Partrick. No. 959,794; May 31; Sp. p. 7274; Gaz. vol. 154; p. 1233.
Bottle, Non-refillable. C. Schickerling. No. 960,416; June 7; Sp. p. 362; Gaz. vol. 155; p. 61.
Bottle, Non-refillable. W. W. Humes. No. 961,134; June 14; Sp. p. 1800; Gaz. vol. 155; p. 326.
Bottle, Non-refillable. W. M. Way. No. 961,822; June 21; Sp. p. 3282; Gaz. vol. 155; p. 585.
Bottle, Non-refillable. F. B. Locke. No. 963,302; July 5; Sp. p. 683; Gaz. vol. 156; p. 97.
Bottle, Non-refillable. H. C. Niederée. No. 963,926; July 12; Sp. p. 1996; Gaz. vol. 156; p. 328.
Bottle, Non-refillable. J. Humphrey. No. 965,524; July 26; Sp. p. 5474; Gaz. vol. 156; p. 932.
Bottle, Non-refillable. F. W. Herbert. No. 965,899; Aug. 2; Sp. p. 115; Gaz. vol. 157; p. 19.
Bottle, Non-refillable. H. V. Colvin. No. 966,084; Aug. 2; Sp. p. 512; Gaz. vol. 157; p. 83.
Bottle, Non-refillable. W. R. McDonald. No. 966,944; Aug. 9; Sp. p. 2398; Gaz. vol. 157; p. 394.
Bottle, Non-refillable. W. R. and E. P. Hoe. No. 967,771; Aug. 16; Sp. p. 4103; Gaz. vol. 157; p. 703.
Bottle, Non-refillable. J. O. Walsh. No. 968,212; Aug. 23; Sp. p. 5079; Gaz. vol. 157; p. 874.
Bottle, Non-refillable. J. B. Zorn. No. 968,227; Aug. 23; Sp. p. 5104; Gaz. vol. 157; p. 879.
Bottle, Non-refillable. R. Siena. No. 968,993; Aug. 30; Sp. p. 6712; Gaz. vol. 157; p. 1169.
Bottle, Non-refillable. R. J. Potter. No. 969,563; Sept. 6; Sp. p. 886; Gaz. vol. 158; p. 140.
Bottle, Non-refillable. C. D. Hudson. No. 969,697; Sept. 6; Sp. p. 1150; Gaz. vol. 158; p. 186.
Bottle, Non-refillable. J. F. McGrane. No. 970,384; Sept. 13; Sp. p. 2637; Gaz. vol. 158; p. 445.
Bottle, Non-refillable. L. G. Bugnon. No. 971,488; Sept. 27; Sp. p. 4933; Gaz. vol. 158; p. 864.
Bottle, Non-refillable. J. Missall and A. Sommer. No. 971,916; Oct. 4; Sp. p. 872; Gaz. vol. 159; p. 150.
Bottle, Non-refillable. J. T. Bluff. No. 972,094; Oct. 4; Sp. p. 1254; Gaz. vol. 159; p. 213.
Bottle, Non-refillable. J. Wiberg. No. 972,423; Oct. 11; Sp. p. 1964; Gaz. vol. 159; p. 345.
Bottle, Non-refillable. I. B. Solomon. No. 972,780; Oct. 11; Sp. p. 2746; Gaz. vol. 159; p. 467.
Bottle, Non-refillable. E. B. Barner. No. 973,099; Oct. 18; Sp. p. 3501; Gaz. vol. 159; p. 604.
Bottle, Non-refillable. W. B. Powell. No. 973,970; Oct. 25; Sp. p. 5347; Gaz. vol. 159; p. 930.
Bottle, Non-refillable. P. Vice. No. 974,215; Nov. 1; Sp. p. 254; Gaz. vol. 160; p. 42.
Bottle, Non-refillable. S. E. Gill. No. 976,065; Nov. 15; Sp. p. 4315; Gaz. vol. 160; p. 732.
Bottle, Non-refillable. M. Pelz. No. 979,998; Dec. 27; Sp. p. 5565; Gaz. vol. 161; p. 962.
Bottle, Nursing-. H. D. Williams. No. 950,710; Mar. 1; Sp. p. 545; Gaz. vol. 152; p. 85.
Bottle, Nursing-. C. P. Eberley. No. 951,419; Mar. 8; Sp. p. 1954; Gaz. vol. 152; p. 339.
Bottle, Nursing-. H. C. Dunfee. No. 954,564; Apr. 12; Sp. p. 1851; Gaz. vol. 153; p. 331.
Bottle, Nursing-. F. Herb. No. 967,913; Aug. 23; Sp. p. 4395; Gaz. vol. 157; p. 774.
Bottle, Nursing-. R. A. Van Cleave. No. 979,607; Dec. 27; Sp. p. 4735; Gaz. vol. 161; p. 831.
Bottle-opener. G. Fischer. No. 961,224; June 14; Sp. p. 1997; Gaz. vol. 155; p. 360.
Bottle opener, Milk-. O. T. Dougherty. No. 948,392; Feb. 8; Sp. p. 1292; Gaz. vol. 151; p. 232.
Bottle or other like receptacle for containing liquids. G. W. Banta and A. E. Wicks. No. 963,414; July 5; Sp. p. 909; Gaz. vol. 156; p. 134.
Bottle or receptacle, Vacuum. J. E. Miller. No. 956,395; Apr. 26; Sp. p. 5870; Gaz. vol. 153; p. 1020.
Bottle, Poison-. S. H. Kellogg. No. 959,751; May 31; Sp. p. 7178; Gaz. vol. 154; p. 1218.
Bottle-rack. S. L. Goldman. No. 966,008; Aug. 2; Sp. p. 347; Gaz. vol. 157; p. 56.
Bottle rinser and sterilizer. S. R. Wood. No. 950,885; Mar. 1; Sp. p. 893; Gaz. vol. 152; p. 143.
Bottle-rinsing machine. S. Volz. No. 951,466; Mar. 8; Sp. p. 2052; Gaz. vol. 152; p. 356.
Bottle-rinsing machine. L. Weiscopf. No. 971,231; Sept. 27; Sp. p. 4463; Gaz. vol. 158; p. 781.
Bottle, Shaker-. J. L. Dunnock. No. 965,165; July 26; Sp. p. 4676; Gaz. vol. 156; p. 810.
Bottle, Shoe-polish. W. R. Campbell. No. 979,377; Dec. 20; Sp. p. 4226; Gaz. vol. 161; p. 728.
Bottle, Siphon-. F. Spitzenberg. No. 956,443; Apr. 26; Sp. p. 5973; Gaz. vol. 153; p. 1037.
Bottle-soaking machine. W. L. Bodman. No. 966,403; Aug. 2; Sp. p. 1153; Gaz. vol. 157; p. 187.
Bottle-soaking machine. W. L. Bodman. No. 966,405; Aug. 2; Sp. p. 1157; Gaz. vol. 157; p. 187.
Bottle-stopper. M. L. and F. C. Orr. No. 946,559; Jan. 18; Sp. p. 3477; Gaz. vol. 150; p. 585.
Bottle-stopper. K. Haugeland. No. 951,528; Mar. 8; Sp. p. 2171; Gaz. vol. 152; p. 377.
Bottle-stopper. C. A. Natt. No. 952,683; Mar. 22; Sp. p. 4537; Gaz. vol. 152; p. 824.
Bottle-stopper. G. E. Bolton. No. 958,221; May 17; Sp. p. 3850; Gaz. vol. 154; p. 651.
Bottle-stopper. J. Hedlund. No. 963,222; July 5; Sp. p. 498; Gaz. vol. 156; p. 69.
Bottle-stopper. A. C. Appleton. No. 972,492; Oct. 11; Sp. p. 2112; Gaz. vol. 159; p. 368.
Bottle-stopper. A. C. Appleton. No. 972,493; Oct. 11; Sp. p. 2115; Gaz. vol. 159; p. 368.
Bottle-stopper. E. S. Church. No. 972,508; Oct. 11; Sp. p. 2153; Gaz. vol. 159; p. 373.
Bottle-stopper. E. L. Beck. No. 973,616; Oct. 25; Sp. p. 4628; Gaz. vol. 159; p. 805.
Bottle-stopper. E. S. Church. No. 974,122; Nov. 1; Sp. p. 30; Gaz. vol. 160; p. 8.
Bottle-stopper. C. J. Stauffiger. No. 974,444; Nov. 1; Sp. p. 839; Gaz. vol. 160; p. 124.
Bottle-stopper. G. Colucci. No. 977,167; Nov. 29; Sp. p. 6840; Gaz. vol. 160; p. 1161.
Bottle-stopper. F. M. Harrison. No. 978,449; Dec. 13; Sp. p. 2223; Gaz. vol. 161; p. 385.
Bottle-stopper. J. Ottowitz. No. 978,633; Dec. 13; Sp. p. 2652; Gaz. vol. 161; p. 451.
Bottle-stopper. C. F. Drenk. No. 978,712; Dec. 13; Sp. p. 2807; Gaz. vol. 161; p. 477.
Bottle-stopper fastener. J. A. Albertoni and T. Zuppa. No. 978,262; Dec. 13; Sp. p. 1838; Gaz. vol. 161; p. 321.
Bottle stopper, Non-refillable-. W. R. Voss. No. 962,681; June 28; Sp. p. 5157; Gaz. vol. 155; p. 902.
Bottle stopper, Water-. M. C. Schweinert and H. P. Kraft. No. 955,441; Apr. 19; Sp. p. 3766; Gaz. vol. 153; p. 661.
Bottle-stoppers, Device for seating rings of easily-breakable material on. R. Veeck. No. 951,351; Mar. 8; Sp. p. 1805; Gaz. vol. 152; p. 317.
Bottle-stoppering mechanism. J. H. Brandt. No. 966,647; Aug. 9; Sp. p. 1733; Gaz. vol. 157; p. 296.
Bottle-supporting device, Milk-. W. L. Jackson. No. 958,131; May 17; Sp. p. 3674; Gaz. vol. 154; p. 619.
Bottle-treating machine. L. S. Pfouts. No. 963,247; July 5; Sp. p. 570; Gaz. vol. 156; p. 79.
Bottle, Vacuum-. K. Kather and G. F. Schild. No. 966,216; Aug. 2; Sp. p. 806; Gaz. vol. 157; p. 127.
Bottle-washer. R. J. Pfeifer. No. 950,302; Feb. 22; Sp. p. 5347; Gaz. vol. 151; p. 938.
Bottle-washer. H. Krause. No. 967,938; Aug. 23; Sp. p. 4445; Gaz. vol. 157; p. 782.
Bottle-washer. D. Neilly. No. 979,191; Dec. 20; Sp. p. 3860; Gaz. vol. 161; p 668.
Bottle-washer mouthpiece. C. K. Volckening. No. 965,051; July 19; Sp. p. 4453; Gaz. vol. 156; p. 741.
Bottle-washer neck-cleaning device. W. Penman. No. 975,066; Nov. 8; Sp. p. 2240; Gaz. vol. 160; p. 365.
Bottle washing and draining machine. T. D. Kyle and E. H. Waugh. No. 957,220; May 10; Sp. p. 1557; Gaz. vol. 154; p. 276.
Bottle-washing apparatus. C. H. Loew, G. R. Lawrence, and H. Brunner. No. 950,934; Mar. 1; Sp. p. 987; Gaz. vol. 152; p. 158.
Bottle-washing apparatus. O. Eick. No. 956,056; Apr. 26; Sp. p. 5117; Gaz. vol. 153; p. 903.
Bottle-washing machine. W. J. Cunningham. No. 946,895; Jan. 18; Sp. p. 4243; Gaz. vol. 150; p. 698.
Bottle-washing machine. J. Hauk, Jr. No. 947,775; Jan. 25; Sp. p. 6114; Gaz. vol. 150; p. 1019.
Bottle-washing machine. W. L. Bodman. No. 948,586; Feb. 8; Sp. p. 1712; Gaz. vol. 151; p. 296.

Bottle-washing machine. W. L. Bodman. No. 966,404; Aug. 2; Sp. p. 1155; Gaz. vol. 157; p. 187.
Bottle-washing machine. W. Lipps. No. 967,399; Aug. 16; Sp. p. 3360; Gaz. vol. 157; p. 579.
Bottle-washing machine. H. W. Van Leir. No. 968,901; Aug. 30; Sp. p. 6540; Gaz. vol. 157; p. 1139.
Bottle-washing machine. W. Seidel. No. 970,758; Sept. 20; Sp. p. 3477; Gaz. vol. 158; p. 595.
Bottle-washing machine. J. Nader. No. 978,623; Dec. 13; Sp. p. 2622; Gaz. vol. 161; p. 447.
Bottle, Water-. T. G. Strater. No. 957,013; May 3; Sp. p. 1115; Gaz. vol. 154; p. 175.
Bottle, Water-. A. L. Swingle. No. 970,767; Sept. 20; Sp. p. 3496; Gaz. vol. 158; p. 598.
Bottle-wrapper. X. Pène. No. 950,785; Mar. 1; Sp. p. 700; Gaz. vol. 152; p. 112.
Bottles and the like, Combined holder and protector for milk-. D. F. Jones. No. 945,170; Jan. 4; Sp. p. 336; Gaz. vol. 150; p. 57.
Bottles and the like to prevent fraudulent refilling, Stoppering device for. L. Blew-Jones. No. 947,052; Jan. 18; Sp. p. 4544; Gaz. vol. 150; p. 749.
Bottles and vessels, Cap for. A. G. Kent. No. 955,808; Apr. 19; Sp. p. 4559; Gaz. vol. 153; p. 788.
Bottles, Combined stopper and connection for water-. J. J. Honecker. No. 966,748; Aug. 9; Sp. p. 1991; Gaz. vol. 157; p. 332.
Bottles, &c., Device for applying adhesive material to. S. B. Goff. No. 950,207; Feb. 22; Sp. p. 5162; Gaz. vol. 151; p. 905.
Bottles, jars, &c., Closure for. L. J. Campbell. No. 945,444; Jan. 4; Sp. p. 940; Gaz. vol. 150; p. 148.
Bottles or like vessels, Closure for. P. Leinbrock. No. 954,115; Apr. 5; Sp. p. 871; Gaz. vol. 153; p. 151.
Bottles or other receptacles, Means for stoppering or sealing. H. W. Johnson. No. 955,079; Apr. 12; Sp. p. 2992; Gaz. vol. 153; p. 507.
Bottles or other vessels, Closing device for. J. E. Fagerström, A. E. Johansson, and K. B. Zetterberg. No. 945,842; Jan. 11; Sp. p. 1876; Gaz. vol. 150; p. 311.
Bottles or receptacles, Container for. H. R. Myers. No. 961,885; June 21; Sp. p. 3431; Gaz. vol. 155; p. 606.
Bottles or the like, Stoppering device for. T. Heffernan and H. C. Braun. No. 948,325; Feb. 8; Sp. p. 1135; Gaz. vol. 151; p. 208.
Bottles, Safety device for antirefillable. J. B. Arsac. No. 956,750; May 3; Sp. p. 530; Gaz. vol. 154; p. 86.
Bottles, &c., Screw-closure for. A. Wilzin. No. 973,397; Oct. 18; Sp. p. 4156; Gaz. vol. 159; p. 709.
Bottles, Stopper-lock for. J. L. Peters. No. 955,099; Apr. 12; Sp. p. 3024; Gaz. vol. 153; p. 513.
Bottles, Wiring. O. Topp. No. 948,286; Feb. 1; Sp. p. 1037; Gaz. vol. 151; p. 170.
Bottles with aerated liquids and beverages, Apparatus for filling. H. L. J. Torpy. No. 968,898; Aug. 30; Sp. p. 6535; Gaz. vol. 157; p. 1138.
Bottling device. R. L. Hepler. No. 956,704; May 3; Sp. p. 443; Gaz. vol. 154; p. 71.
Bottling-machine. A. Schneider. No. 954,824; Apr. 12; Sp. p. 2473; Gaz. vol. 153; p. 422.
Bottling-machine. S. Reinsberg. No. 955,551; Apr. 19; Sp. p. 3988; Gaz. vol. 153; p. 700.
Bottling-machine. J. H. Champ. No. 963,119; July 5; Sp. p. 243; Gaz. vol. 156; p. 32.
Bottling-machine. A. A. Pindstofte. No. 967,049; Aug. 9; Sp. p. 2630; Gaz. vol. 157; p. 431.
Bottling-machine. A. A. Pindstofte. No. 976,688; Nov. 22; Sp. p. 5725; Gaz. vol. 160; p. 969.
Bottling-machine. J. H. Champ. No. 979,745; Dec. 27; Sp. p. 5028; Gaz. vol. 161; p. 878.
Bottling machine, Liquid-. A. Schneider. No. 976,751; Nov. 22; Sp. p. 5853; Gaz. vol. 160; p. 991.
Bottling-machine, Rotary. A. A. Pindstofte. No. 967,050; Aug. 9; Sp. p. 2631; Gaz. vol. 157; p. 432.
Bottom-finishing machine. C. Pease. No. 960,391; June 7; Sp. p. 316; Gaz. vol. 155; p. 53.
Bouquet-holder. E. H. Cowdrick. No. 968,452; Aug. 23; Sp. p. 5555; Gaz. vol. 157; p. 958.
Bouquet-holder. C. Muir. No. 971,774; Oct. 4; Sp. p. 552; Gaz. vol. 159; p. 96.
Bow for apparel. C. S. Clinch. No. 952,726; Mar. 22; Sp. p. 4629; Gaz. vol. 152; p. 839.
Bow for stringed instruments. A. H. Elsmore. No. 961,589; June 14; Sp. p. 2796; Gaz. vol. 155; p. 483.
Bow forming, holding, and attaching device. M. Froesé. No. 967,569; Aug. 16; Sp. p. 3586; Gaz. vol. 157; p. 615.
Bow-tie. C. H. Stephan. No. 953,446; Mar. 29; Sp. p. 6175; Gaz. vol. 152; p. 1107.
Bowling-alley. A. B. Wetherell. No. 960,750; June 7; Sp. p. 1031; Gaz. vol. 155; p. 174.
Bowling-alley. E. Lee. No. 974,400; Nov. 1; Sp. p. 718; Gaz. vol. 160; p. 109.
Bowling-alley, Portable. J. E. Noonan. No. 972,568; Oct. 11; Sp. p. 2311; Gaz. vol. 159; p. 396.
Bowling apparatus. C. C. Hildreth and H. F. Cook. No. 976,738; Nov. 22; Sp. p. 5822; Gaz. vol. 160; p. 987.
Bowling-cabinet. R. H. Mulford. No. 948,238; Feb. 1; Sp. p. 936; Gaz. vol. 151; p. 154.
Box: *See* Alarm call-box; Annealing-box; Artist's sketch-box; Ash-box; Automobile tool-box; Axle-box; Axle bearing-box; Bale-box; Battery-box; Berry-box; Blacking-box; Boiler fire-box; Bottle-box; Breeding-box; Butter-box; Can-shipping box; Car sand-box; Car view-box; Cash-box, Chart-box; Cigar-box; Cigar-maker's box; Cigarette-box; Coal and wood box; Collapsible box; Collar-box; Color-box; Core-box; Cracker-box; Curb-box; Deposit-box; Depositing-box; Display-box; Drop-box; Egg-box; Electrode-box; Fare-box; Feed-box; Fire-box; Fire-alarm box; Flush-box; Folding box; Fruit-box; Fuse-box; Gum-box; Hair-pin box; Hat-box; Hone-box; Ice-box; Jack-box; Journal-box; Junction-box; Knock-down box; Lamp-box; Lecturer's reading-box; Letter-box; Lock-box; Locomotive smoke-box; Lunch-box; Mail-box; Mail-carrier's box; Mailing-box; Match-box; Metal box; Metal-reinforced box; Meter-box; Miter-box; Molding-box · Oil-can or tool box; Oil-press box; Outlet-box; Outlet or junction box; Packing-box; Paper box; Paste-box; Pen and pencil box; Pencil-box; Phonograph sound-box; Powder-box; Puff-box; Resistance-box; Rolling-mill guide-box; Sand-box; Service-box; Sewer air-inlet box; Sheet-metal box; Shipping-box; Shipping and display box; Shuttle-box; Signal-box; Signaling-box; Sluice-box; Snuff-box; Soap-box; Sound-box; Stationery-box; Stereotype-casting box; Street-box; Stuffing-box; Suction-box; Switch-box; Switch or outlet box; Talking-machine sound-box; Toilet-box; Toilet or vanity box; Toy handkerchief-box; Tracker-box; Transplanting-box; Type-writer-ribbon box; Valve and fire-plug box; Valve-core box; Veneer box; Wagon-box; Wall or switch box; Well-boring box; Window cooling-box; Window provision-box.
Box. R. E. Eve. No. 945,155; Jan. 4; Sp. p. 301; Gaz. vol. 150; p. 51.
Box. H. B. Walter. No. 947,767; Jan. 25; Sp. p. 6103; Gaz. vol. 150; p. 1017.
Box. E. S. J. Child. No. 948,967; Feb. 8; Sp. p. 2492; Gaz. vol. 151; p. 424.
Box. W. S. King. No. 949,904; Feb. 22; Sp. p. 4482; Gaz. vol. 151; p. 800.
Box. F. A. Rebentisch. No. 953,290; Mar. 29; Sp. p. 5830; Gaz. vol. 152; p. 1054.
Box. S. C. Horton and A. B. Choate. No. 954,676; Apr. 12; Sp. p. 2108; Gaz. vol. 153; p. 369.
Box. F. Jager. No. 955,880; Apr. 26; Sp. p. 4761; Gaz. vol. 153; p. 842.
Box. J. S. Lauterbach. No. 956,859; May 3; Sp. p. 785; Gaz. vol. 154; p. 124.
Box. H. B. Walter. No. 957,395; May 10; Sp. p. 1940; Gaz. vol. 154; p. 336.
Box. C. S. Stafford. No. 958,707; May 17; Sp. p. 4959; Gaz. vol. 154; p. 815.
Box. C. W. Cohn. No. 959,922; May 31; Sp. p. 7562; Gaz. vol. 154; p. 1277.
Box. G. J. Eichhorn. No. 960,220; May 31; Sp. p. 8200; Gaz. vol. 154; p. 1380.
Box. H. L. Hudson. No. 966,919; Aug. 9; Sp. p. 2360; Gaz. vol. 157; p. 386.
Box. W. C. Heller. No. 972,449; Oct. 11; Sp. p. 2015; Gaz. vol. 159; p. 353.
Box. J. Torango. No. 973,321; Oct. 18; Sp. p. 3987; Gaz. vol. 159; p. 682.
Box. C. F. A. Eddy. No. 973,927; Oct. 25; Sp. p. 5271; Gaz. vol. 159; p. 914.
Box. J. H. Carter. No. 975,121; Nov. 8; Sp. p. 2361; Gaz. vol. 160; p. 385.
Box. P. R. Warren. No. 975,911; Nov. 15; Sp. p. 4031; Gaz. vol. 160; p. 680.
Box. P. R. Warren. No. 979,812; Dec. 27; Sp. p. 5195; Gaz. vol. 161; p. 901.
Box-bit, Adjustable. F. A. Hanes and W. Staples. No. 960,315; June 7; Sp. p. 151; Gaz. vol. 155; p. 28.
Box-blank and using the same. J. F. Adams. No. 959,098; May 24; Sp. p. 5828; Gaz. vol. 154; p. 976.
Box-blank-making machine. E. G. Staude. No. 955,713; Apr. 19; Sp. p. 4381; Gaz. vol. 153; p. 756.
Box-blank-making machine F. Meisel. No. 958,661; May 17; Sp. p. 4872; Gaz. vol. 154; p. 800.
Box-blanks, Stacking and counting mechanism for flexible. E. G. Staude. No. 961,263; June 14; Sp. p. 2070; Gaz. vol. 155; p. 373.
Box bottoms or lids, Manufacturing. B. G. Nice and J. L. McMichael. No. 962,851; June 28; Sp. p. 5503; Gaz. vol. 155; p. 963.
Box-catch. W. M. Brooks. No. 967,605; Aug. 16; Sp. p. 3771; Gaz. vol. 157; p. 648.
Box-clamp. H. Burch. No. 949,619; Feb. 15; Sp. p. 3839; Gaz. vol. 151; p. 669.
Box-closure. A. H. McAllister. No. 966,699; Aug. 9; Sp. p. 1837; Gaz. vol. 157; p. 314.
Box-closure. H. Matchett. No. 970,844; Sept. 20; Sp. p. 3662; Gaz. vol. 158; p. 626.
Box construction. H. W. Hildebrand, Jr. No. 945,094; Jan. 4; Sp. p. 185; Gaz. vol. 150; p. 31.
Box construction, Folding-. D. J. Rex. No. 976,914; Nov. 29; Sp. p. 6234; Gaz. vol. 160; p. 1073.
Box-corner-trimming machine. J. T. Leckenby. No. 976,471; Nov. 22; Sp. p. 5284; Gaz. vol. 160; p. 897.
Box-cover fastener. J. H. Sower and J. T. Richards. No. 958,022; May 17; Sp. p. 3337; Gaz. vol. 154; p. 581.

Alphabetical list of inventions—Continued.

Box-cover fastener. C. A. Lauzon. No. 961,780; June 21; Sp. p. 3180; Gaz. vol. 155; p. 571.
Box-cover fastener. B. Tukis. No. 961,990; June 21; Sp. p. 3639; Gaz. vol. 155; p. 640.
Box-cover fastener. C. R. Ragsdale. No. 967,435; Aug. 16; Sp. p. 3423; Gaz. vol. 157; p. 590.
Box-cover fastener. H. W. Drew. No. 978,362; Dec. 13; Sp. p. 2041; Gaz. vol. 161; p. 356.
Box-covering and corner-staying machine. W. C. Carlson. No. 961,841; June 21; Sp. p. 3321; Gaz. vol. 155; p. 591.
Box-covering machine. W. B. Paton. No. 965,738; July 26; Sp. p. 5918; Gaz. vol. 156; p. 1006.
Box, ejector, and cover, Combined. H. C. Leighton. No. 963,229; July 5; Sp. p. 510; Gaz. vol. 156; p. 72.
Box end, Wire-bound-. F. A. Prahl. No. 968,192; Aug. 23; Sp. p. 5032; Gaz. vol. 157; p. 867.
Box-ending machine. J. P. Bird. No. 964,200; July 12; Sp. p. 2552; Gaz. vol. 156; p. 421.
Box-fastener. E. P. Warfield. No. 956,747; May 3; Sp. p. 526; Gaz. vol. 154; p. 85.
Box-fastener. J. P. Fritz. No. 958,916; May 24; Sp. p. 5466; Gaz. vol. 154; p. 916.
Box-fastener. W. H. Murphy. No. 970,639; Sept. 20; Sp. p. 3216; Gaz. vol. 158; p. 552.
Box-fastener. F. R. Prescott. No. 971,790; Oct. 4; Sp. p. 586; Gaz. vol. 159; p. 102.
Box-fastener. P. Rank. No. 974,430; Nov. 1; Sp. p. 799; Gaz. vol. 160; p. 120.
Box-fastener. C. W. Beehler. No. 976,025; Nov. 15; Sp. p. 4243; Gaz. vol. 160; p. 720.
Box-fastener. C. W. Beehler. No. 976,026; Nov. 15; Sp. p. 4244; Gaz. vol. 160; p. 720.
Box-fastener. C. W. Beehler. No. 976,027; Nov. 15; Sp. p. 4246; Gaz. vol. 160; p. 720.
Box folding and gluing machines, Automatic stacker and counter for. H. F. Teetsell. No. 964,460; July 12; Sp. p. 3076; Gaz. vol. 156; p. 505.
Box-folding machine. A. B. Cowles. No. 978,702; Dec. 13; Sp. p. 2775; Gaz. vol. 161; p. 473.
Box for toilet preparations and the like. E. Herzstam. No. 947,198; Jan. 18; Sp. p. 4826; Gaz. vol. 150; p. 796.
Box for vials, flasks, and similar objects. E. Barell and W. Girard. No. 955,041; Apr. 12; Sp. p. 2928; Gaz. vol. 153; p. 496.
Box-hinging machine. W. McMurray. No. 968,784; Aug. 30; Sp. p. 6300; Gaz. vol. 157; p. 1099.
Box-hinging machine. W. McMurray. No. 968,785; Aug. 30; Sp. p. 6306; Gaz. vol. 157; p. 1100.
Box-lid clamp or holder. F. R. Covey. No. 965,087; July 19; Sp. p. 4523; Gaz. vol. 156; p. 754.
Box-lid fastener. C. E. Hendrix. No. 964,912; July 19; Sp. p. 4176; Gaz. vol. 156; p. 696.
Box-lid fastener. R. D. Smith. No. 965,043; July 19; Sp. p. 4437; Gaz. vol. 156; p. 738.
Box-lid holder. M. Davidson. No. 977,278; Nov. 29; Sp. p. 7052; Gaz. vol. 160; p. 1200.
Box lid or cover, Shoe-polish-. J. W. Davis. No. 949,148; Feb. 15; Sp. p. 2883; Gaz. vol. 151; p. 510.
Box-lifter. A. F. Dehn. No. 964,090; July 12; Sp. p. 2345; Gaz. vol. 156; p. 385.
Box-lining machine. W. A. Joplin. No. 954,739; Apr. 12; Sp. p. 2260; Gaz. vol. 153; p. 392.
Box-lock. J. F. Beehler. No. 968,024; Aug. 23; Sp. p. 4645; Gaz. vol. 157; p. 811.
Box-making apparatus. L. D. Lewis. No. 971,455; Sept. 27; Sp. p. 4869; Gaz. vol. 158; p. 853.
Box-making machine. E. H. Taylor. No. 948,298; Feb. 1; Sp. p. 1075; Gaz. vol. 151; p. 174.
Box-making machine. G. D. Parker. No. 959,158; May 24; Sp. p. 5948; Gaz. vol. 154; p. 996.
Box-making machine. E. W. Labombarde. No. 960,348; June 7; Sp. p. 224; Gaz. vol. 155; p. 38.
Box-opener. C. L. Curtis. No. 950,256; Feb. 22; Sp. p. 5263; Gaz. vol. 151; p. 923.
Box-opener. J. Tremblay. No. 951,890; Mar. 15; Sp. p. 2920; Gaz. vol. 152; p. 528.
Box-opener and nail-puller, Combined. F. T. Lestage. No. 948,230; Feb. 1; Sp. p. 922; Gaz. vol. 151; p. 151.
Box-opening device. G. C. Weber. No. 948,152; Feb. 1; Sp. p. 769; Gaz. vol. 151; p. 126.
Box or package. J. N. Hahn and G. H. Eckhouse. No. 953,828; Apr. 5; Sp. p. 292; Gaz. vol. 153; p. 52.
Box or receptacle. W. Kreuzkamp and C. T. Bowman. No. 952,263; Mar. 15; Sp. p. 3628; Gaz. vol. 152; p. 652.
Box press, Fruit-. J. Osborn. No. 958,163; May 17; Sp. p. 3739; Gaz. vol. 154; p. 632.
Box-strap puller, cutter, and nail-guide. W. M. Brooks. No. 960,494; June 7; Sp. p. 512; Gaz. vol. 155; p. 85.
Box structure. C. W. Lewis. No. 951,136; Mar. 8; Sp. p. 1367; Gaz. vol. 152; p. 248.
Box-tops, Mechanism for forming finger-notches in. N. E. Larocque. No. 968,368; Aug. 23; Sp. p. 5393; Gaz. vol. 157; p. 930.
Boxes and the like, Corner-trimming machine for. H. W. Morgan. No. 974,807; Nov. 8; Sp. p. 1647; Gaz. vol. 160; p. 276.
Boxes, Assembling and nailing form for. H. B. Walter. No. 952,968; Mar. 22; Sp. p. 5124; Gaz. vol. 152; p. 920.
Boxes, Blank for covering shouldered-neck. J. P. Markert. No. 956,590; May 3; Sp. p. 182; Gaz. vol. 154; p. 31.
Boxes, crates, &c., Corner-fastening device for. J. A. Coffey and C. C. Bowen. No. 952,785; Mar. 22; Sp. p. 4765; Gaz. vol. 152; p. 858.
Boxes, Form for folding. H. B. Walter. No. 952,967; Mar. 22; Sp. p. 5123; Gaz. vol. 152; p. 920.
Boxes, Machine for attaching fly-strips to. J. P. Bird. No. 966,422; Aug. 9; Sp. p. 1199; Gaz. vol. 157; p. 218.
Boxes, Machine for making flexible. E. G. Staude. No. 948,710; Feb. 8; Sp. p. 1969; Gaz. vol. 151; p. 338.
Boxes, Machine for manufacturing match-. K. A. Johansson. No. 979,308; Dec. 20; Sp. p. 4104; Gaz. vol. 161; p. 707.
Boxes, Partition for. J. T. Ferres. No. 949,958; Feb. 22; Sp. p. 4583; Gaz. vol. 151; p. 819.
Boxing-machine. S. S. and W. W. Tainter and G. P. Stanley. No. 953,358; Mar. 29; Sp. p. 5984; Gaz. vol. 152; p. 1077.
Brace: *See* Animal foot-brace; Bit-brace; Body-brace; Boiler-brace; Broom-brace; Car-brace; Carpenter's brace; Cross-brace; Cross-arm brace; Drill-brace; Fence-post brace; Ladder-brace; Post-brace; Rail-brace; Shaft-brace; Shoulder-brace; Track-brace; Vehicle-spring brace; Wagon-box brace.
Brace. M. A. Goodson. No. 976,564; Nov. 22; Sp. p. 5492; Gaz. vol. 160; p. 928.
Brace-clamp. J. D. Maddox. No. 959,147; May 24; Sp. p. 5927; Gaz. vol. 154; p. 992.
Brace-waist, Combination. E. M. Clewell. No. 971,524; Oct. 4; Sp. p. 28; Gaz. vol. 159; p. 7.
Braces, Gentleman's. E. Nesbitt. No. 949,805; Feb. 22; Sp. p. 4237; Gaz. vol. 151; p. 764.
Bracelet. H. R. Holbrook. No. 949,323; Feb. 15; Sp. p. 3228; Gaz. vol. 151; p. 569.
Bracelet and the like. G. Widenmeyer. No. 973,601; Oct. 25; Sp. p. 4583; Gaz. vol. 159; p. 800.
Bracelet, belt, &c. J. J. Sommer. No. 960,050; May 31; Sp. p. 7885; Gaz. vol. 154; p. 1324.
Bracelet-fastening. A. Emrich. No. 960,079; May 31; Sp. p. 7937; Gaz. vol. 154; p. 1333.
Bracelet or finger-ring having a variable diameter. P. Döppenschmitt. No. 946,342; Jan. 11; Sp. p. 2926; Gaz. vol. 150; p. 485.
Bracelets and other articles, Hinge-joint for. C. Spatschil. No. 947,312; Jan. 25; Sp. p. 5125; Gaz. vol. 150; p. 865.
Bracelets, &c., Band for. T. S. Bennett. No. 947,322; Jan. 25; Sp. p. 5150; Gaz. vol. 150; p. 869.
Bracket. *See* Adjustable bracket; Angle-bracket; Body-supported bracket; Builder's bracket; Car-door bracket; Corner-bracket; Counter-guard bracket; Curtain-bracket; Curtain-pole bracket; Detachable bracket; Door guide-bracket; Electric and gas fixture bracket; Electric-light supporting-bracket; Extensible bracket; Folding bracket; Ironing-board bracket; Ladder-bracket; Lamp-bracket; Portable bracket; Pull-out bracket; Pulley-bracket; Roof-bracket; Roofing-bracket; Scaffold-bracket; Scaffolding-bracket; Shade-bracket; Shade and curtain bracket; Shade and curtain fixture bracket; Shade and pole bracket; Shade or curtain bracket; Shade-roller bracket; Shelf-bracket; Shingling-bracket; Sink-bracket; Smoke-canopy-supporting bracket; Staging-bracket; Telephone-bracket; Telephone-receiver bracket; Wagon-bracket; Window-bracket.
Bracket. C. F. Laun. No. 956,983; May 3; Sp. p. 1058; Gaz. vol. 154; p. 166.
Bracket. W. A. Scott. No. 961,319; June 14; Sp. p. 2219; Gaz. vol. 155; p. 393.
Bracket. J. Kroder. No. 961,502; June 14; Sp. p. 2606; Gaz. vol. 155; p. 455.
Bracket. F. B. Cook. No. 962,494; June 28; Sp. p. 4766; Gaz. vol. 155; p. 839.
Bracket. W. J. Neidl. No. 967,419; Aug. 16; Sp. p. 3400; Gaz. vol. 157; p. 586.
Bracket for structural work. F. A. Winslow. No. 957,531; May 10; Sp. p. 2210; Gaz. vol. 154; p. 382.
Brad holder and set. A. G. Lamb. No. 952,571; Mar. 22; Sp. p. 4283; Gaz. vol. 152; p. 784.
Braid. R. C. Rahm. No. 972,718; Oct. 11; Sp. p. 2634; Gaz. vol. 159; p. 447.
Braid lapping or bolting machine. H. W. Schloss and H. Hawley. No. 978,657; Dec. 13; Sp. p. 2696; Gaz. vol. 161; p. 459.
Braider-spool. F. Mossberg. No. 962,715; June 28; Sp. p. 5240; Gaz. vol. 155; p. 915.
Braiding and plaiting machine. F. A. Schmidt. No. 952,950; Mar. 22; Sp. p. 5093; Gaz. vol. 152; p. 914.
Braiding-machine. A. Orthmann. No. 949,245; Feb. 15; Sp. p. 3062; Gaz. vol. 151; p. 542.
Braiding-machine. A. C. Faire. No. 949,823; Feb. 22; Sp. p. 4280; Gaz. vol. 151; p. 771.
Braiding-machine. E. Rankin. No. 958,175; May 17; Sp. p. 3765; Gaz. vol. 154; p. 636.
Braiding-machine. W. T. Le Blanc. No. 958,512; May 17; Sp. p. 4584; Gaz. vol. 154; p. 753.
Braiding-machine. O. Steinmann and X. Pfrunder. No. 960,122; May 31; Sp. p. 8017; Gaz. vol. 154; p. 1346.
Braiding-machine. M. D. Brown and H. K. Beach. No. 965,437; July 26; Sp. p. 5265; Gaz. vol. 156; p. 901.
Braiding-machine. R. C. Rahm. No. 971,403; Sept. 27; Sp. p. 4781; Gaz. vol. 158; p. 837.

Braiding-machine. G. Donat. No. 973,637; Oct. 25; Sp. p. 4678; Gaz. vol. 159; p. 813.
Braiding-machine. G. Dingendahl. No. 979,446; Dec. 27; Sp. p. 4379; Gaz. vol. 161; p. 775.
Braiding-machine. H. Janssen and R. C. Rahm. No. 979,502; Dec. 27; Sp. p. 4492; Gaz. vol. 161; p. 793.
Braiding-machine attachment. R. C. Rahm. No. 967,670; Aug. 16; Sp. p. 3898; Gaz. vol. 157; p. 669.
Braiding-machine carrier. E. F. Parks and S. W. Wardwell. No. 962,522; June 28; Sp. p. 4824; Gaz. vol. 155; p. 848.
Braiding-machines, Thread-supply device for. J. O. McKean. No. 947,416; Jan. 25; Sp. p. 5373; Gaz. vol. 150; p. 900.
Brake: *See* Air-brake; Air emergency-brake; Automatic brake; Automatic and independent brake; Automobile-brake; Automobile air-brake; Automobile emergency-brake; Band-brake; Boat fender-brake; Car-brake; Car hand-brake; Car safety-brake; Clutch-brake; Coaster-brake; Dough-brake; Electric brake; Electromechanical compound brake; Elevator-brake; Emergency-brake; Fluid-brake; Fluid-pressure brake; Friction-brake; Graduated release-brake; Hay-rack brake; Hoist-brake; Hoisting-device brake; Load-regulated brake; Machine-brake; Machinery-brake; Magnetic brake; Pulley-brake; Railway-brake; Railway-track brake; Roll-brake; Safety-brake; Sled-brake; Sleigh-brake; Talking-machine brake; Truck-brake; Vehicle-brake; Vehicle back-up brake; Vehicle emergency-brake; Vehicle or roller-coaster brake; Vessel-brake; Wagon-brake; Wagon and auto brake; Wheel-brake; Wheel automatic brake.
Brake. E. B. Knowles. No. 946,057; Jan. 11; Sp. p. 2320; Gaz. vol. 150; p. 386.
Brake. W. E. Baldwin, Jr. No. 948,155; Feb. 1; Sp. p. 774; Gaz. vol. 151; p. 127.
Brake. J. Hurck. No. 949,631; Feb. 15; Sp. p. 3858; Gaz. vol. 151; p. 673.
Brake. J. D. Wenier. No. 953,878; Apr. 5; Sp. p. 388; Gaz. vol. 153; p. 70.
Brake. C. W. Aveling. No. 956,263; Apr. 26; Sp. p. 5594; Gaz. vol. 153; p. 976.
Brake. H. Vanderbeek. No. 958,446; May 17; Sp. p. 4462; Gaz. vol. 154; p. 730.
Brake. W. J. Smith. No. 960,425; June 7; Sp. p. 378; Gaz. vol. 155; p. 63.
Brake. O. M. Taylor. No. 968,893; Aug. 30; Sp. p. 6524; Gaz. vol. 157; p. 1136.
Brake. J. A. Landers. No. 969,167; Sept. 6; Sp. p. 37; Gaz. vol. 158; p. 9.
Brake. E. A. Nelson. No. 970,738; Sept. 20; Sp. p. 3426; Gaz. vol. 158; p. 587.
Brake. G. and C. A. Kunz. No. 976,083; Nov. 15; Sp. p. 4351; Gaz. vol. 160; p. 739.
Brake. E. F. Kelley. No. 977,744; Dec. 6; Sp. p. 715; Gaz. vol. 161; p. 112.
Brake-adjuster, Automatic. J. S. Washburn. No. 974,004; Oct. 25; Sp. p. 5434; Gaz. vol. 159; p. 942.
Brake-adjuster, Automatic. J. S. Washburn. No. 974,005; Oct. 25; Sp. p. 5435; Gaz. vol. 159; p. 942.
Brake apparatus and switch mechanism, Combined. W. H. Hultgren. No. 979,498; Dec. 27; Sp. p. 4485; Gaz. vol. 161; p. 792.
Brake apparatus, Electromagnetic. A. Sundh. No. 960,055; May 31; Sp. p. 7894; Gaz. vol. 154; p. 1325.
Brake apparatus, Safety release-magnet for. W. N. Dickinson, Jr. No. 950,223; Feb. 22; Sp. p. 5190; Gaz. vol. 151; p. 911.
Brake appliance, Accident. M. E. Troutt. No. 976,107; Nov. 15; Sp. p. 4416; Gaz. vol. 160; p. 748.
Brake appliance, Truck. A. L. Saxon. No. 969,149; Aug. 30; Sp. p. 7034; Gaz. vol. 157; p. 1224.
Brake-applying mechanism. P. Conniff and Y. Burgess. No. 956,293; Apr. 26; Sp. p. 5661; Gaz. vol. 153; p. 986.
Brake attachment, Auxiliary coaster-. H. K. Jones. No. 975,432; Nov. 15; Sp. p. 3028; Gaz. vol. 160; p. 516.
Brake attachment, Vehicle. W. W. Walton. No. 964,345; July 12; Sp. p. 2855; Gaz. vol. 156; p. 471.
Brake-band. J. C. Crenshaw. No. 966,312; Aug. 2; Sp. p. 980; Gaz. vol. 157; p. 157.
Brake-bands, Antirattling device for. J. Evans. No. 947,628; Jan. 25; Sp. p. 5854; Gaz. vol. 150; p. 972.
Brake-beam. P. B. Harrison. No. 949,892; Feb. 22; Sp. p. 4457; Gaz. vol. 151; p. 796.
Brake-beam. W. P. Bettendorf. No. 950,653; Mar. 1; Sp. p. 411; Gaz. vol. 152; p. 66.
Brake-beam. C. H. Williams, Jr. No. 951,866; Mar. 15; Sp. p. 2860; Gaz. vol. 152; p. 520.
Brake-beam. E. A. Le Beau. No. 953,148; Mar. 29; Sp. p. 5532; Gaz. vol. 152; p. 1009.
Brake-beam. C. F. Huntoon. No. 953,695; Apr. 5; Sp. p. 33; Gaz. vol. 153; p. 9.
Brake-beam. C. H. Williams, Jr. No. 953,772; Apr. 5; Sp. p. 179; Gaz. vol. 153; p. 33.
Brake-beam. P. B. Harrison. No. 953,784; Apr. 5; Sp. p. 199; Gaz. vol. 153; p. 37.
Brake-beam. C. H. Williams, Jr. No. 955,239; Apr. 19; Sp. p. 3334; Gaz. vol. 153; p. 595.
Brake-beam. C. H. Williams, Jr. No. 955,240; Apr. 19; Sp. p. 3336; Gaz. vol. 153; p. 595.
Brake-beam. S. U. Walck. No. 955,620; Apr. 19; Sp. p. 4157; Gaz. vol. 153; p. 724.
Brake-beam. P. B. Harrison. No. 956,087; Apr. 26; Sp. p. 5203; Gaz. vol. 153; p. 915.
Brake-beam. C. H. Williams, Jr. No. 956,616; May 3; Sp. p. 234; Gaz. vol. 154; p. 40.
Brake-beam. P. B. Harrison. No. 956,637; May 3; Sp. p. 279; Gaz. vol. 154; p. 46.
Brake-beam. C. H. Williams, Jr. No. 957,399; May 10; Sp. p. 1946; Gaz. vol. 154; p. 337.
Brake-beam. C. H. Williams, Jr. No. 957,400; May 10; Sp. p. 1948; Gaz. vol. 154; p. 337.
Brake-beam. H. Ziemss, Jr. No. 958,060; May 17; Sp. p. 3532; Gaz. vol. 154; p. 595.
Brake-beam. C. F. Huntoon. No. 960,935; June 7; Sp. p. 1386; Gaz. vol. 155; p. 233.
Brake-beam. C. H. Williams, Jr. No. 961,920; June 21; Sp. p. 3490; Gaz. vol. 155; p. 618.
Brake-beam. F. R. Cornwall. No. 966,429; Aug. 9; Sp. p. 1219; Gaz. vol. 157; p. 221.
Brake-beam. B. Haskell. No. 969,861; Sept. 13; Sp. p. 1557; Gaz. vol. 158; p. 268.
Brake-beam. J. B. Hoagland. No. 974,270; Nov. 1; Sp. p. 426; Gaz. vol. 160; p. 63.
Brake-beam. J. A. Lamont. No. 974,283; Nov. 1; Sp. p. 463; Gaz. vol. 160; p. 68.
Brake-beam. C. F. Huntoon. No. 974,797; Nov. 8; Sp. p. 1620; Gaz. vol. 160; p. 273.
Brake-beam. J. J. Hoffman. No. 976,461; Nov. 22; Sp. p. 5264; Gaz. vol. 160; p. 894.
Brake-beam. C. H. Williams, Jr. No. 979,624; Dec. 27; Sp. p. 4769; Gaz. vol. 161; p. 837.
Brake-beam. B. Haskell. No. 979,668; Dec. 27; Sp. p. 4856; Gaz. vol. 161; p. 851.
Brake-beam. C. H. Kofske. No. 979,968; Dec. 27; Sp. p. 5508; Gaz. vol. 161; p. 952.
Brake-beam finger-guard. C. E. Bauer. No. 953,314; Mar. 29; Sp. p. 5876; Gaz. vol. 152; p. 1061.
Brake-beam guard. F. T. De Long. No. 950,632; Mar. 1; Sp. p. 361; Gaz. vol. 152; p. 58.
Brake-beam hanger. S. S. Underwood. No. 965,964; Aug. 2; Sp. p. 245; Gaz. vol. 157; p. 41.
Brake-beam hanger. S. S. Underwood. No. 965,965; Aug. 2; Sp. p. 246; Gaz. vol. 157; p. 41.
Brake-beam hanger. S. S. Underwood. No. 966,141; Aug. 2; Sp. p. 616; Gaz. vol. 157; p. 101.
Brake-beam hanger. S. S. Underwood. No. 966,142; Aug. 2; Sp. p. 617; Gaz. vol. 157; p. 101.
Brake-beam hanger. J. J. Hoffman. No. 976,462; Nov. 22; Sp. p. 5266; Gaz. vol. 160; p. 894.
Brake-beam strut. E. G. Busse. No. 949,882; Feb. 22; Sp. p. 4430; Gaz. vol. 151; p. 792.
Brake-beams and bolsters, Beam for. A. P. Rissler. No. 952,581; Mar. 22; Sp. p. 4305; Gaz. vol. 152; p. 788.
Brake-beams, Forged-steel fulcrum for trussed type of. P. T. Handiges. No. 959,524; May 31; Sp. p. 6713; Gaz. vol. 154; p. 1143.
Brake-block holder, Adjustable vehicle-. L. J. Badgley. No. 974,012; Oct. 25; Sp. p. 5454; Gaz. vol. 159; p. 945.
Brake device, Magnetic. J. N. Mahoney and O. S. McCurdy. No. 977,111; Nov. 29; Sp. p. 6707; Gaz. vol. 160; p. 1142.
Brake-hanger. W. H. Kaldrider. No. 969,704; Sept. 6; Sp. p. 1162; Gaz. vol. 158; p. 188.
Brake-head, Adjustable. L. Porter. No. 957,251 · May 10; Sp. p. 1624; Gaz. vol. 154; p. 287.
Brake-head, Adjustable. F. R. Cornwall. No. 959,466; May 31; Sp. p. 6583; Gaz. vol. 154; p. 1123.
Brake-head, Adjustable. L. Porter and C. H. Williams, Jr. No. 959,600; May 31; Sp. p. 6870; Gaz. vol. 154; p. 1169.
Brake-head, Adjustable. F. R. Cornwall. No. 960,828; June 7; Sp. p. 1196; Gaz. vol. 155; p. 199.
Brake-head, Adjustable. C. H. Williams, Jr. No. 961,921; June 21; Sp. p. 3492; Gaz. vol. 155; p. 618.
Brake-head, Adjustable. C. H. Williams, Jr. No. 979,623; Dec. 27; Sp. p. 4767; Gaz. vol. 161; p. 837.
Brake head and shoe. C. H. Williams, Jr. No. 952,553; Mar. 22; Sp. p. 4243; Gaz. vol. 152; p. 778.
Brake head and shoe. B. F. Hysell and R. M. Cavedo. No. 959,542; May 31; Sp. p. 6754; Gaz. vol. 154; p. 1149.
Brake-head for solid beams, Reinforced. C. H. Williams, Jr. No. 951,865; Mar. 15; Sp. p. 2859; Gaz. vol. 152; p. 520.
Brake-lever fulcrum. C. H. Williams, Jr. No. 953,163; Mar. 29; Sp. p. 5559; Gaz. vol. 152; p. 1014.
Brake-lever strut. L. Porter. No. 950,640; Mar. 1; Sp. p. 380; Gaz. vol. 152; p. 61.
Brake-lever strut. C. H. Williams, Jr. No. 951,165; Mar. 8; Sp. p. 1419; Gaz. vol. 152; p. 258.
Brake-lever strut. C. H. Williams, Jr. No. 951,166; Mar. 8; Sp. p. 1421; Gaz. vol. 152; p. 258.
Brake-lever strut or post. C. H. Williams, Jr. No. 956,249; Apr. 26; Sp. p. 5565; Gaz. vol. 153; p. 970.
Brake-lever, Vehicle. J. M. Custer. No. 948,106; Feb. 1; Sp. p. 682; Gaz. vol. 151; p. 111.
Brake mechanism. R. M. Downie. No. 952,514; Mar. 22; Sp. p. 4150; Gaz. vol. 152; p. 764.
Brake mechanism, Car. W. H. Durant. No. 976,991; Nov. 29; Sp. p. 6445; Gaz. vol. 160; p. 1100.
Brake mechanism for car-trucks. H. W. Blake. No. 976,844; Nov. 29; Sp. p. 6083; Gaz. vol. 160; p. 1048.

Alphabetical list of inventions—Continued.

Brake mechanism for self-acting mules, Backing-off. J. G. Bodemer. No. 964,378; July 12; Sp. p. 2906; Gaz. vol. 156; p. 480.

Brake mechanism, Hand. C. H. Anderson. No. 973,097; Oct. 18; Sp. p. 3499; Gaz. vol. 159; p. 604.

Brake mechanism, Hand. J. R. Carmer. No. 979,379; Dec. 20; Sp. p. 4228; Gaz. vol. 161; p. 729.

Brake mechanisms, Automatic pressure-controlling device for. H. Rowntree. No. 976,925; Nov. 29; Sp. p. 6271; Gaz. vol. 160; p. 1077.

Brake-operating mechanism. L. Courtois. No. 950,477; Mar. 1; Sp. p. 31; Gaz. vol. 152; p. 7.

Brake-operating mechanism. J. A. and J. A. Schuchardt, Sr. and Jr. No. 952,759; Mar. 22; Sp. p. 4702; Gaz. vol. 152; p. 849.

Brake-operating mechanism. J. F. Kieffer. No. 968,957; Aug. 30; Sp. p. 6645; Gaz. vol. 157; p. 1157.

Brake pipes, Crossover connection for fluid-pressure-. J. A. Hicks. No. 973,043; Oct. 18; Sp. p. 3385; Gaz. vol. 159; p. 586.

Brake-power-limiting apparatus. W. G. Ransom. No. 961,257; June 14; Sp. p. 2059; Gaz. vol. 155; p. 371.

Brake-rigging. W. H. Sauvage. No. 963,947; July 12; Sp. p. 2031; Gaz. vol. 156; p. 335.

Brake-rigging. W. G. Price. No. 967,433; Aug. 16; Sp. p. 3420; Gaz. vol. 157; p. 590.

Brake-rod jaw. L. A. Hoerr. No. 977,629; Dec. 6; Sp. p. 476; Gaz. vol. 161; p. 72.

Brake safety attachment, Car-. J. B. Wright. No. 947,142; Jan. 18; Sp. p. 4703; Gaz. vol. 150; p. 777.

Brake-setting mechanism, Automatic. J. F. Reynolds. No. 977,967; Dec. 6; Sp. p. 1189; Gaz. vol. 161; p. 190.

Brake-shoe. J. E. Osmer. No. 945,409; Jan. 4; Sp. p. 880; Gaz. vol. 150; p. 136.

Brake-shoe. H. Pries. No. 949,945; Feb. 22; Sp. p. 4562; Gaz. vol. 151; p. 815.

Brake-shoe. O. A. Koenig. No. 950,486; Mar. 1; Sp. p. 47; Gaz. vol. 152; p. 9.

Brake-shoe. H. H. Urquhart. No. 951,350; Mar. 8; Sp. p. 1802; Gaz. vol. 152; p. 317.

Brake-shoe. F. H. Gibbs. No. 961,344; June 14; Sp. p. 2282; Gaz. vol. 155; p. 403.

Brake-shoe. J. A. Panton. No. 963,640; July 5; Sp. p. 1359; Gaz. vol. 156; p. 211.

Brake-shoe. H. Jones. No. 963,771; July 12; Sp. p. 1642; Gaz. vol. 156; p. 277.

Brake-shoe. D. Rawstron. No. 965,938; Aug. 2; Sp. p. 186; Gaz. vol. 157; p. 32.

Brake-shoe. J. Stromeyer. No. 966,616; Aug. 9; Sp. p. 1673; Gaz. vol. 157; p. 286.

Brake-shoe. W. H. Kaldrider. No. 969,705; Sept. 6; Sp. p. 1164; Gaz. vol. 158; p. 189.

Brake-shoe. C. A. Malcolm. No. 972,202; Oct. 11; Sp. p. 1507; Gaz. vol. 159; p. 268.

Brake-shoe. J. H. Davis. No. 974,243; Nov. 1; Sp. p. 363; Gaz. vol. 160; p. 52.

Brake shoe and head, Self-locking. J. J. McConnell. No. 978,772; Dec. 13; Sp. p. 2925; Gaz. vol. 161; p. 495.

Brake-shoe holder. G. W. Maples. No. 947,923; Feb. 1; Sp. p. 298; Gaz. vol. 151; p. 50.

Brake-shoe, Interlocking. H. Jones. No. 963,772; July 12; Sp. p. 1644; Gaz. vol. 156; p. 277.

Brake-shoe machine. F. K. Caswell. No. 973,169; Oct. 18; Sp. p. 3678; Gaz. vol. 159; p. 630.

Brake-shoe machine, Automatic. F. K. Caswell. No. 973,167; Oct. 18; Sp. p. 3667; Gaz. vol. 159; p. 629.

Brake-shoe, Magnetic. E. H. Cockshott and A. W. Maley. No. 965,798; July 26; Sp. p. 6057; Gaz. vol. 156; p. 1027.

Brake-shoe mold. C. B. Carter. No. 965,869; Aug. 2; Sp. p. 45; Gaz. vol. 157; p. 10.

Brake-shoe, Reinforced. J. A. Panton. No. 974,589; Nov. 1; Sp. p. 1175; Gaz. vol. 160; p. 179.

Brake-shoes, Making. F. K. Caswell. No. 973,168; Oct. 18; Sp. p. 3673; Gaz. vol. 159; p. 630.

Brake-shoes, Molding and casting reinforced. D. Rawstron. No. 964,054; July 12; Sp. p. 2269; Gaz. vol. 156; p. 373.

Brake slack-adjuster, Car-. W. K. Price. No. 951,577; Mar. 8; Sp. p. 2260; Gaz. vol. 152; p. 392.

Brake systems, Crossover connection for fluid-pressure-. J. A. Hicks. No. 973,042; Oct. 18; Sp. p. 3383; Gaz. vol. 159; p. 586.

Brakes, Means for automatically varying, proportionally to the load, the pneumatic application of friction-. L. H. Schenck. No. 976,000; Nov. 15; Sp. p. 4196; Gaz. vol. 160; p. 711.

Brakes, Pressure-regulator for automatic. J. E. A. Michel. No. 971,207; Sept. 27; Sp. p. 4407; Gaz. vol. 158; p. 773.

Braking, Electric. E. F. W. Alexanderson. No. 967,296; Aug. 16; Sp. p. 3131; Gaz. vol. 157; p. 542.

Braking, Electric. E. F. W. Alexanderson. No. 974,224; Nov. 1; Sp. p. 266; Gaz. vol. 160; p. 45.

Bran digestible, Rendering. D. Finkler. No. 953,946; Apr. 5; Sp. p. 520; Gaz. vol. 153; p. 94.

Branding-machine. H. Waibel. No. 949,786; Feb. 22; Sp. p. 4195; Gaz. vol. 151; p. 758.

Branding-machine. H. Waibel. No. 958,449; May 17; Sp. p. 4467; Gaz. vol. 154; p. 731.

Brass-dust, Manufacturing. A. Sang. No. 946,738; Jan. 18; Sp. p. 3854; Gaz. vol. 150; p. 643.

Brass-polishing device. C. E. Merrill. No. 961,875; June 21; Sp. p. 3408; Gaz. vol. 155; p. 602.

Brassière. A. Benjamin. No. 948,642; Feb. 8; Sp. p. 1832; Gaz. vol. 151; p. 315.

Brazing or welding rail-bonds, Apparatus for. C. R. Sturdevant. No. 950,033; Feb. 22; Sp. p. 4812; Gaz. vol. 151; p. 846.

Bread-making composition. D. Chidlow. No. 976,343; Nov. 22; Sp. p. 5011; Gaz. vol. 160; p. 851.

Bread-making machine. V. A. Hellstrom. No. 969,058; Aug. 30; Sp. p. 6848; Gaz. vol. 157; p. 1192.

Bread, Manufacture of. C. A. Heudebert. No. 950,920; Mar. 1; Sp. p. 958; Gaz. vol. 152; p. 153.

Bread, Manufacture of. C. A. Heudebert. No. 950,921; Mar. 1; Sp. p. 959; Gaz. vol. 152; p. 153.

Bread, meat, and the like, Cutting device for. M. Korallis. No. 954,112; Apr. 5; Sp. p. 868; Gaz. vol. 153; p. 150.

Bread-mixer. W. A. Babbitt. No. 959,101; May 24; Sp. p. 5832; Gaz. vol. 154; p. 977.

Bread-mixer. G. Friedman. No. 960,878; June 7; Sp. p. 1287; Gaz. vol. 155; p. 215.

Bread-molding machine. J. A. Sexauer. No. 964,321; July 12; Sp. p. 2807; Gaz. vol. 156; p. 463.

Bread or other commodity catching device. G. Mueller. No. 977,213; Nov. 29; Sp. p. 6932; Gaz. vol. 160; p. 1178.

Bread, Peppermint-. M. A. Heinzer. No. 952,114; Mar. 15; Sp. p. 3346; Gaz. vol. 152; p. 602.

Bread-raising cabinet. W. J. Loudenslager. No. 966,341; Aug. 2; Sp. p. 1025; Gaz. vol. 157; p. 166.

Bread-wrapping machine. I. F. Peck. No. 956,994; May 3; Sp. p. 1076; Gaz. vol. 154; p. 169.

Breakers, spreaders, &c., Automatic regulating device for. W. H. L. Mellis. No. 959,148; May 24; Sp. p. 5928; Gaz. vol. 154; p. 992.

Breaking and scutching machine. J. W. Poindexter. No. 962,783; June 28; Sp. p. 5375; Gaz. vol. 155; p. 939.

Breaking or granulating machine. J. H. Spencer. No. 946,283; Jan. 11; Sp. p. 2799; Gaz. vol. 150; p. 466.

Breast-strap. D. P. Hewitt. No. 953,333; Mar. 29; Sp. p. 5920; Gaz. vol. 152; p. 1069.

Breeches, Riding-. C. J. Larkin. No. 967,023; Aug. 9; Sp. p. 2573; Gaz. vol. 157; p. 422.

Breeching. A. Short. No. 971,695; Oct. 4; Sp. p. 380; Gaz. vol. 159; p. 67.

Breeding box, Stock-. O. C. Black. No. 952,500; Mar. 22; Sp. p. 4124; Gaz. vol. 152; p. 759.

Brewing. R. Kubessa. No. 949,581; Feb. 15; Sp. p. 3773; Gaz. vol. 151; p. 656.

Brewing. J. Schneible. No. 961,539; June 14; Sp. p. 2692; Gaz. vol. 155; p. 467.

Brewing. W. P. F. Moeller. No. 963,458; July 5; Sp. p. 994; Gaz. vol. 156; p. 149.

Brewing beer, &c. F. Rogerson. No. 976,602; Nov. 22; Sp. p. 5571; Gaz. vol. 160; p. 942.

Brewing beer of low alcoholic contents. H. E. Deckebach. No. 977,603; Dec. 6; Sp. p. 434; Gaz. vol. 161; p. 63.

Brewing purposes, Filter-basin for. H. Stockheim. No. 953,495; Mar. 29; Sp. p. 6285; Gaz. vol. 152; p. 1126.

Brick and delivering the same for use or storage, Handling. R. C. Penfield. No. 961,314; June 14; Sp. p. 2208; Gaz. vol. 155; p. 392.

Brick, Burning. J. Q. Bennett and R. A. Parry. No. 956,620; May 3; Sp. p. 242; Gaz. vol. 154; p. 41.

Brick-cutting machine. F. B. Dunn. No. 967,350; Aug. 16; Sp. p. 3241; Gaz. vol. 157; p. 562.

Brick-drier. E. H. Callaway. No. 948,988; Feb. 15; Sp. p. 2542; Gaz. vol. 151; p. 458.

Brick-driers, Steam-distributing apparatus for. E. H. Callaway. No. 945,219; Jan. 4; Sp. p. 441; Gaz. vol. 150; p. 73.

Brick-drying apparatus. W. R. Martin. No. 956,123; Apr. 26; Sp. p. 5279; Gaz. vol. 153; p. 927.

Brick-drying shed. E. H. Callaway. No. 952,230; Mar. 15; Sp. p. 3566; Gaz. vol. 152; p. 641.

Brick-ejecting mechanism. F. Zagelmeyer. No. 976,243; Nov. 22; Sp. p. 4780; Gaz. vol. 160; p. 818.

Brick-handling appliance. M. Trinaistich. No. 947,403; Jan. 25; Sp. p. 5347; Gaz. vol. 150; p. 896.

Brick-handling device. R. C. Penfield. No. 967,662; Aug. 16; Sp. p. 3879; Gaz. vol. 157; p. 666.

Brick-handling device. E. J. Fritsch. No. 977,610; Dec. 6; Sp. p. 443; Gaz. vol. 161; p. 65.

Brick-handling device, Portable. R. C. Penfield. No. 967,663; Aug. 16; Sp. p. 3883; Gaz. vol. 157; p. 666.

Brick-handling device, Portable. R. C. Penfield. No. 976,393; Nov. 22; Sp. p. 5128; Gaz. vol. 160; p. 870.

Brick-handling machine. R. C. Penfield. No. 954,584; Apr. 12; Sp. p. 1893; Gaz. vol. 153; p. 338.

Brick-handling machine. E. J. Fritsch. No. 956,330; Apr. 26; Sp. p. 5736; Gaz. vol. 153; p. 998.

Brick-handling machine. R. C. Penfield. No. 957,368; May 10; Sp. p. 1880; Gaz. vol. 154; p. 327.

Brick-handling machine. R. C. Penfield. No. 962,584; June 28; Sp. p. 4966; Gaz. vol. 155; p. 870.

Brick-handling machine. R. C. Penfield. No. 974,292; Nov. 1; Sp. p. 485; Gaz. vol. 160; p. 71.

Brick-handling machine. R. C. Penfield. No. 975,713; Nov. 15; Sp. p. 3635; Gaz. vol. 160; p. 612.

Brick-handling machine. R. C. Penfield. No. 976,394; Nov. 22; Sp. p. 5132; Gaz. vol. 160; p. 870.

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Brick-kiln. E. H. Bradley. No. 966,991; Aug. 9; Sp. p. 2500; Gaz. vol. 157; p. 411.
Brick-kiln. E. H. Callaway. No. 967,608; Aug. 16; Sp. p. 3777; Gaz. vol. 157; p. 649.
Brick-kiln. R. C. Penfield and F. S. Naugle. No. 972,570; Oct. 11; Sp. p. 2315; Gaz. vol. 159; p. 397.
Brick-kiln. W. T. Hurd. No. 974,969; Nov. 8; Sp. p. 2039; Gaz. vol. 160; p. 333.
Brick-kiln and process of burning bricks. W. H. Francis. No. 972,524; Oct. 11; Sp. p. 2201; Gaz. vol. 159; p. 380.
Brick-kiln furnace. E. H. Callaway. No. 967,607; Aug. 16; Sp. p. 3773; Gaz. vol. 157; p. 648.
Brick-kilns, Portable blower for. E. H. Callaway. No. 958,223; May 17; Sp. p. 3854; Gaz. vol. 154; p. 651.
Brick-machine. R. F. Ollmann. No. 945,246; Jan. 4; Sp. p. 502; Gaz. vol. 150; p. 82.
Brick-machine. L. M. Pratt. No. 949,043; Feb. 15; Sp. p. 2671; Gaz. vol. 151; p. 476.
Brick-machine. H. K. King. No. 953,670; Mar. 29; Sp. p. 6649; Gaz. vol. 152; p. 1185.
Brick-machine. G. W. Bond. No. 957,543; May 10; Sp. p. 2235; Gaz. vol. 154; p. 387.
Brick-machine. C. S. Wert. No. 965,350; July 26; Sp. p. 5082; Gaz. vol. 156; p. 873.
Brick-machine. W. B. Ferris. No. 968,140; Aug. 23; Sp. p. 4899; Gaz. vol. 157; p. 850.
Brick-machine. H. W. Lampman. No. 978,600; Dec. 13; Sp. p. 2574; Gaz. vol. 161; p. 439.
Brick-machine, End-cut. J. Bensing. No. 975,502; Nov. 15; Sp. p. 3174; Gaz. vol. 160; p. 541.
Brick-making machine, Automatic compressed-. J. A. Plopper. No. 947,456; Jan. 25; Sp. p. 5458; Gaz. vol. 150; p. 913.
Brick. Manufacturing. J. C. Dunton. No. 958,997; May 24; Sp. p. 5614; Gaz. vol. 154; p. 943.
Brick-mold conveying and dumping apparatus. W. E. Loomis. No. 969,071; Aug. 30; Sp. p. 6874; Gaz. vol. 157; p. 1197.
Brick-molds, Method or system of conveying and dumping. W. E. Loomis. No. 969,072; Aug. 30; Sp. p. 6877; Gaz. vol. 157; p. 1197.
Brick-molding machine. T. Young. No. 958,898; May 24; Sp. p. 5434; Gaz. vol. 154; p. 910.
Brick-press off-bearing attachment. W. R. Cunningham. No. 973,411; Oct. 18; Sp. p. 4186; Gaz. vol. 159; p. 713.
Brick re-press. C. E. Simpson. No. 946,583; Jan. 18; Sp. p. 3514; Gaz. vol. 150; p. 592.
Brick-setting frame. R. C. Penfield. No. 958,973; May 24; Sp. p. 5566; Gaz. vol. 154; p. 935.
Brick, tile, and building-blocks, Press for making. G. Hoffman. No. 972,375; Oct. 11; Sp. p. 1861; Gaz. vol. 159; p. 326.
Brick, tile, or other articles, Apparatus for baking, glazing, or enameling. L. Houze. No. 952,196; Mar. 15; Sp. p. 3486; Gaz. vol. 152; p. 628.
Bricks, Composition of matter for the manufacture of building-. H. D. Phillips. No. 954,693; Apr. 12; Sp. p. 2138; Gaz. vol. 153; p. 374.
Bricks, Composition of matter for the manufacture of road or street. H. D. Phillips. No. 954,694; Apr. 12; Sp. p. 2139; Gaz. vol. 153; p. 374.
Bricks in bulk, Apparatus for handling. R. C. Penfield. No. 967,661; Aug. 16; Sp. p. 3875; Gaz. vol. 157; p. 665.
Bricks, Molding. H. Schulte-Steinberg. No. 971,693; Oct. 4; Sp. p. 378; Gaz. vol. 159; p. 67.
Brickmaking apparatus. W. Hanley. No. 959,006; May 24; Sp. p. 5628; Gaz. vol. 154; p. 946.
Brickmaking apparatus. J. P. B. Fiske. No. 974,782; Nov. 8; Sp. p. 1597; Gaz. vol. 160; p. 269.
Brickmaking machine. J. H. Dyett. No. 952,790; Mar. 22; Sp. p. 4772; Gaz. vol. 152; p. 860.
Brickmaking-machine. G. W. Taylor. No. 957,174; May 3; Sp. p. 1434; Gaz. vol. 154; p. 230.
Bridge. J. B. Strauss. No. 974,538; Nov. 1; Sp. p. 1074; Gaz. vol. 160; p. 160.
Bridge, Bascule-. J. A. L. Waddell and J. L. Harrington. No. 952,485; Mar. 22; Sp. p. 4091; Gaz. vol. 152; p. 755.
Bridge, Bascule-. A. H. Scherzer. No. 963,399; July 5; Sp. p. 877; Gaz. vol. 156; p. 129.
Bridge center lock, Bascule-. A. H. Scherzer. No. 968,988; Aug. 30; Sp. p. 6704; Gaz. vol. 157; p. 1167.
Bridge-floor. T. E. Stockford. No. 972,482; Oct. 11; Sp. p. 2091; Gaz. vol. 159; p. 364.
Bridge-gate. C. Faust. No. 979,270; Dec. 20; Sp. p. 4035; Gaz. vol. 161; p. 694.
Bridge-gate. C. Faust. No. 979,271; Dec. 20; Sp. p. 4037; Gaz. vol. 161; p. 695.
Bridge, Gutter-. C. C. Fouts. No. 979,754; Dec. 27; Sp. p. 5059; Gaz. vol. 161; p. 881.
Bridge, Lift-. J. A. L. Waddell and J. L. Harrington. No. 952,486; Mar. 22; Sp. p. 4095; Gaz. vol. 152; p. 755.
Bridge, Lift-. J. A. L. Waddell and J. L. Harrington. No. 953,307; Mar. 29; Sp. p. 5860; Gaz. vol. 152; p. 1059.
Bridge-locking means, Bascule-. A. H. Scherzer. No. 968,987; Aug. 30; Sp. p. 6701; Gaz. vol. 157; p. 1167.
Bridge, Pontoon-. A. Norman. No. 951,379; Mar. 8; Sp. p. 1872; Gaz. vol. 152; p. 326.
Bridge rear-end lock, Bascule-. A. H. Scherzer. No. 978,493; Dec. 13; Sp. p. 2325; Gaz. vol. 161; p. 401.
Bridge safety-gate. C. Faust. No. 974,558; Nov. 1; Sp. p. 1117; Gaz. vol. 160; p. 168.
Bridge, Submerged. W. Blanchard. No. 949,791; Feb. 22; Sp. p. 4205; Gaz. vol. 151; p. 759.
Bridge, Suspension-. W. A. Wood. No. 951,874; Mar. 15; Sp. p. 2888; Gaz. vol. 152; p. 523.
Bridge, Suspension-. W. H. C. Greer. No. 968,552; Aug. 30; Sp. p. 5786; Gaz. vol. 157; p. 1019.
Bridges, Safety device for preventing runaway accidents on. M. Goodman. No. 963,433; July 5; Sp. p. 949; Gaz. vol. 156; p. 141.
Bridle. H. W. Daly and D. H. Boughton. No. 952,610; Mar. 22; Sp. p. 4374; Gaz. vol. 152; p. 799.
Bridle attachment. J. J. Horn. No. 978,296; Dec. 13; Sp. p. 1909; Gaz. vol. 161; p. 334.
Bridle-bit. O. Finnel and F. Carson. No. 956,063; Apr. 26; Sp. p. 5144; Gaz. vol. 153; p. 907.
Bridle-bit. L. N. Kelly. No. 964,917; July 19; Sp. p. 4187; Gaz. vol. 156; p. 698.
Bridle-bit. M. D. and A. Q. Moss. No. 970,083; Sept. 13; Sp. p. 2028; Gaz. vol. 158; p. 344.
Bridle-bit. L. Y. Janes. No. 973,276; Oct. 18; Sp. p. 3895; Gaz. vol. 159; p. 667.
Bridle-bit. J. A. Fairbanks. No. 976,058; Nov. 15; Sp. p. 4305; Gaz. vol. 160; p. 730.
Bridle-bit, Reversible. E. M. Coe. No. 962,005; June 21; Sp. p. 3671; Gaz. vol. 155; p. 645.
Bridle eye-cover or blinker. M. Koppel. No. 960,648; June 7; Sp. p. 839; Gaz. vol. 155; p. 137.
Brine-cooler. G. Knox. No. 948,143; Feb. 1; Sp. p. 751; Gaz. vol. 151; p. 123.
Briquet and making the same. E. J. Callahan. No. 979,258; Dec. 20; Sp. p. 4017; Gaz. vol. 161; p. 691.
Briquet-machine. E. Fernholtz. No. 952,960; Mar. 22; Sp. p. 5108; Gaz. vol. 152; p. 917.
Briquet-machine. G. Komarek. No. 969,540; Sept. 6; Sp. p. 833; Gaz. vol. 158; p. 132.
Briquet-machine. J. W. Peters and D. I. Brown. No. 970,546; Sept. 20; Sp. p. 2994; Gaz. vol. 158; p. 521.
Briquet-machines, Mixing apparatus for. G. Komarek. No. 959,062; May 24; Sp. p. 5748; Gaz. vol. 154; p. 964.
Briquet-making machine. W. H. Wyman. No. 953,655; Mar. 29; Sp. p. 6615; Gaz. vol. 152; p. 1181.
Briquet-mold. L. H. Martens. No. 948,335; Feb. 8; Sp. p. 1151; Gaz. vol. 151; p. 212.
Briquet-press. J. T. Davis. No. 967,617; Aug. 16; Sp. p. 3796; Gaz. vol. 157; p. 652.
Briquets, Composition for. W. J. Shaw. No. 963,400; July 5; Sp. p. 886; Gaz. vol. 156; p. 130.
Briquets, Manufacture of. E. Trainer and W. Haage. No. 969,504; Sept. 6; Sp. p. 748; Gaz. vol. 158; p. 118.
Briquets, Manufacturing. T. G. A. Wilson. No. 958,950; May 24; Sp. p. 5517; Gaz. vol. 154; p. 927.
Briqueting-machine. G. W. Rigby. No. 951,579; Mar. 8; Sp. p. 2267; Gaz. vol. 152; p. 393.
Briqueting-machine. G. W. Herbein. No. 965,298; July 26; Sp. p. 4950; Gaz. vol. 156; p. 854.
Bristle-redeeming machine. E. Vogel. No. 976,955; Nov. 29; Sp. p. 6358; Gaz. vol. 160; p. 1088.
Bristles, Redeeming. E. Vogel. No. 977,057; Nov. 29; Sp. p. 6577; Gaz. vol. 160; p. 1122.
Broiler. B. McCaughey. No. 946,859; Jan. 18; Sp. p. 4149; Gaz. vol. 150; p. 686.
Broiler. W. F. Rape. No. 969,495; Sept. 6; Sp. p. 729; Gaz. vol. 158; p. 115.
Brooch. C. E. Smith. No. 969,666; Sept. 6; Sp. p. 1091; Gaz. vol. 158; p. 175.
Brooder. A. P. Ward. No. 945,483; Jan. 4; Sp. p. 1018; Gaz. vol. 150; p. 159.
Brooder. W. Bachmann. No. 950,831; Mar. 1; Sp. p. 797; Gaz. vol. 152; p. 127.
Brooder. J. H. Johnson. No. 953,667; Mar. 29; Sp. p. 6642; Gaz. vol. 152; p. 1184.
Brooder. H. A. Nourse. No. 955,473; Apr. 19; Sp. p. 3831; Gaz. vol. 153; p. 673.
Brooder. C. E. Adair. No. 959,097; May 24; Sp. p. 5826; Gaz. vol. 154; p. 976.
Brooder. A. Waldwick. No. 959,975; May 31; Sp. p. 7694; Gaz. vol. 154; p. 1296.
Brooder. P. R. Park. No. 965,650; July 26; Sp. p. 5745; Gaz. vol. 156; p. 977.
Brooder. G. H. Lee. No. 966,222; Aug. 2; Sp. p. 813; Gaz. vol. 157; p. 129.
Brooder. R. J. Lore. No. 969,710; Sept. 6; Sp. p. 1172; Gaz. vol. 158; p. 190.
Brooder. J. A. Connolly. No. 973,174; Oct. 18; Sp. p. 3689; Gaz. vol. 159; p. 632.
Brooder. N. D. Ford. No. 973,420; Oct. 18; Sp. p. 4207; Gaz. vol. 159; p. 716.
Brooder. F. O. Penney. No. 976,685; Nov. 22; Sp. p. 5721; Gaz. vol. 160; p. 969.
Brooder. W. T. Faust. No. 978,010; Dec. 6; Sp. p. 1264; Gaz. vol. 161; p. 203.
Brooder and incubator heater. C. E. Adair. No. 961,667; June 14; Sp. p. 2946; Gaz. vol. 155; p. 509.
Brooder and incubator heater. G. M. Curtis. No. 967,173; Aug. 16; Sp. p. 2892; Gaz. vol. 157; p. 501.
Brooder-coop for chickens, &c. J. F. Richards. No. 946,706; Jan. 18; Sp. p. 3777; Gaz. vol. 150; p. 632.
Brooder, Fireless. G. H. Lee. No. 960,099; May 31; Sp. p. 7970; Gaz. vol. 154; p. 1339.

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Brooder, Fireless. C. E. La Pointe. No. 967,528; Aug. 16; Sp. p. 3624; Gaz. vol. 157; p. 622.
Brooder, Poultry-. C. L. Cambridge. No. 976,984; Nov. 29; Sp. p. 6434; Gaz. vol. 160; p. 1098.
Broom. J. M. Zimmerlee. No. 962,188; June 21; Sp. p. 4095; Gaz. vol. 155; p. 711.
Broom. H. M. Marsh. No. 970,843; Sept. 20; Sp. p. 3661; Gaz. vol. 158; p. 625.
Broom. G. Dieckmann. No. 971,362; Sept. 27; Sp. p. 4710; Gaz. vol. 158; p. 823.
Broom and brush cloth-holder. C. B. Davis. No. 964,402; July 12; Sp. p. 2954; Gaz. vol. 156; p. 488.
Broom and scraper, Combination. J. S. Bender. No. 950,012; Feb. 22; Sp. p. 4748; Gaz. vol. 151; p. 839.
Broom attachment. S. G. Wilson. No. 953,112; Mar. 29; Sp. p. 5456; Gaz. vol. 152; p. 997.
Broom-brace. S. G. Wilson. No. 975,916; Nov. 15; Sp. p. 4050; Gaz. vol. 160; p. 682.
Broom-corn and the like, Machine for bundling or compressing. J. F. Foley. No. 958,866; May 24; Sp. p. 5349; Gaz. vol. 154; p. 898.
Broom-corn knife. G. W. Hanson. No. 972,187; Oct. 11; Sp. p. 1477; Gaz. vol. 159; p. 263.
Broom-cover. J. G. Cummings and J. Lynch. No. 960,158; May 31; Sp. p. 8077; Gaz. vol. 154; p. 1358.
Broom-cover-making machine. F. Kenoyer. No. 953,039; Mar. 29; Sp. p. 5273; Gaz. vol. 152; p. 972.
Broom-handle. H. Post. No. 968,518; Aug. 23; Sp. p. 5699; Gaz. vol. 157; p. 982.
Broom-hanger. F. M. Thorpe. No. 974,612; Nov. 1; Sp. p. 1215; Gaz. vol. 160; p. 187.
Broom-head. L. R. Reeder. No. 960,198; May 31; Sp. p. 8161; Gaz. vol. 154; p. 1373.
Broom-holder. S. A. Watson. No. 958,570; May 17; Sp. p. 4694; Gaz. vol. 154; p. 771.
Broom-holder. J. T. Holte. No. 959,139; May 24; Sp. p. 5911; Gaz. vol. 154; p. 990.
Broom-holder. S. G. Wilson. No. 961,472; June 14; Sp. p. 2535; Gaz. vol. 155; p. 444.
Broom-holder. C. H. Sorensen. No. 974,998; Nov. 8; Sp. p. 2108; Gaz. vol. 160; p. 343.
Broom-holder. H. M. Keller. No. 976,809; Nov. 22; Sp. p. 5986; Gaz. vol. 160; p. 1011.
Broom-holding device. H. W. Harrison. No. 957,673; May 10; Sp. p. 2498; Gaz. vol. 154; p. 432.
Broom, Metal-case. S. C. Lay. No. 946,234; Jan. 11; Sp. p. 2693; Gaz. vol. 150; p. 448.
Broom-nailing machine. S. C. Lay. No. 965,588; July 26; Sp. p. 5611; Gaz. vol. 156; p. 955.
Broom-protector, Removable. B. Clark. No. 947,012; Jan. 18; Sp. p. 4485; Gaz. vol. 150; p. 738.
Broom, Shoe-. J. L. Burney. No. 977,432; Dec. 6; Sp. p. 12; Gaz. vol. 161; p. 5.
Broom with detachable handle. P. J. Karst. No. 949,577; Feb. 15; Sp. p. 3767; Gaz. vol. 151; p. 655.
Brooms, brushes, &c., Dust-blowing attachment for. F. C. Davis. No. 954,260; Apr. 5; Sp. p. 1195; Gaz. vol. 153; p. 200.
Brush. G. Lange. No. 945,238; Jan. 4; Sp. p. 486; Gaz. vol. 150; p. 79.
Brush. P. Bajusz. No. 946,314; Jan. 11; Sp. p. 2875; Gaz. vol. 150; p. 477.
Brush. R. M. Kelmel. No. 946,370; Jan. 11; Sp. p. 3079; Gaz. vol. 150; p. 495.
Brush. J. F. Bowditch. No. 951,432; Mar. 8; Sp. p. 1973; Gaz. vol. 152; p. 343.
Brush. M. Marcus. No. 953,277; Mar. 29; Sp. p. 5806; Gaz. vol. 152; p. 1050.
Brush. J. L. Erskine. No. 955,061; Apr. 12; Sp. p. 2962; Gaz. vol. 153; p. 502.
Brush. C. Miller. No. 957,078; May 3; Sp. p. 1247; Gaz. vol. 154; p. 198.
Brush. H. W. Hascy. No. 957,331; May 10; Sp. p. 1809; Gaz. vol. 154; p. 315.
Brush. J. F. Moore. No. 959,574; May 31; Sp. p. 6821; Gaz. vol. 154; p. 1161.
Brush. P. Maendler. No. 960,362; June 7; Sp. p. 259; Gaz. vol. 155; p. 43.
Brush. G. D. Pushee. No. 960,582; June 7; Sp. p. 703; Gaz. vol. 155; p. 116.
Brush. H. H. Stevens. No. 964,707; July 19; Sp. p. 3756; Gaz. vol. 156; p. 624.
Brush. H. Nelson. No. 969,075; Aug. 30; Sp. p. 6883; Gaz. vol. 157; p. 1198.
Brush. T. Brantley. No. 969,456; Sept. 6; Sp. p. 634; Gaz. vol. 158; p. 101.
Brush. L. H. Pfleghardt. No. 971,306; Sept. 27; Sp. p. 4592; Gaz. vol. 158; p. 804.
Brush. C. Z. McKinney. No. 972,011; Oct. 4; Sp. p. 1103; Gaz. vol. 159; p. 185.
Brush. R. J. Montgomery. No. 972,898; Oct. 18; Sp. p. 3049; Gaz. vol. 159; p. 537.
Brush. J. L. Hitz. No. 973,865; Oct. 25; Sp. p. 5140; Gaz. vol. 159; p. 893.
Brush. J. B. Rose. No. 974,922; Nov. 8; Sp. p. 1912; Gaz. vol. 160; p. 316.
Brush. S. B. McHenry. No. 975,776; Nov. 15; Sp. p. 3767; Gaz. vol. 160; p. 634.
Brush. J. Knoller. No. 980,161; Dec. 27; Sp. p. 5952; Gaz. vol. 161; p. 1016.
Brush, Air-. T. A. De Vilbiss. No. 977,281; Nov. 29; Sp. p. 7057; Gaz. vol. 160; p. 1200.
Brush and cleaning rod, Combined. F. I. Johnson. No. 966,100; Aug. 2; Sp. p. 549; Gaz. vol. 157; p. 89.
Brush and holder, Shaving-. W. C. Dickinson. No. 952,884; Mar. 22; Sp. p. 4957; Gaz. vol. 152; p. 892.
Brush and means for automatically cleaning the same, Stripping-. W., T. W. H., and P. C. Philipson. No. 945,591; Jan. 4; Sp. p. 1256; Gaz. vol. 150; p. 195.
Brush and mop attachment, Combination. L. F. Schmid. No. 954,217; Apr. 5; Sp. p. 1121; Gaz. vol. 153; p. 186.
Brush and polisher, Renewable shoe. E. Wilson. No. 964,355; July 12; Sp. p. 2867; Gaz. vol. 156; p. 473.
Brush and reservoir therefor, Fountain-. W. L. Clark. No. 953,374; Mar. 29; Sp. p. 6025; Gaz. vol. 152; p. 1083.
Brush-back. S. G. Wilson. No. 965,786; July 26; Sp. p. 6026; Gaz. vol. 156; p 1023.
Brush-cleaner. G. T. McLeod. No. 957,989; May 17; Sp. p. 3239; Gaz. vol. 154; p. 569.
Brush-cleaner for sieves and bolters. W. D. and J. G. Anderson. No. 971,715; Oct. 4; Sp. p. 425; Gaz. vol. 159; p. 74.
Brush-cutter. W. Gilbert. No. 951,812; Mar. 15; Sp. p. 2746; Gaz. vol. 152; p. 502.
Brush-cutting machine. G. E. Roose. No. 957,101; May 3; Sp. p. 1288; Gaz. vol. 154; p. 205.
Brush-cutting machine. B. Miller and J. Clegg. No. 958,417; May 17; Sp. p. 4399; Gaz. vol. 154; p. 719.
Brush-cylinder, Metallic. A. A. Vardell. No. 968,820; Aug. 30; Sp. p. 6367; Gaz. vol. 157; p. 1110.
Brush, Dabbing-. F. H. Hardy. No. 964,103; July 12; Sp. p. 2374; Gaz. vol. 156; p. 389.
Brush, Dental. J. H. Abbott. No. 959,191; May 24; Sp. p. 6023; Gaz. vol. 154; p. 1006.
Brush, Dental. J. H. Abbott. No. 959,416; May 24; Sp. p. 6454; Gaz. vol. 154; p. 1081.
Brush, Dusting-. J. E. Snevely. No. 948,617; Feb. 8; Sp. p. 1778; Gaz. vol. 151; p. 305.
Brush, Feather. E. E. Smith. No. 954,354; Apr. 5; Sp. p. 1397; Gaz. vol. 153; p. 232.
Brush, Folding tooth-. F. E. Kress. No. 949,540; Feb. 15; Sp. p. 3695; Gaz. vol. 151; p. 642.
Brush for bottle-washing machines. C. K. Volckening. No. 961,563; June 14; Sp. p. 2741; Gaz. vol. 155; p. 475.
Brush for bottle-washing machines. H. W. Van Leir. No. 968,902; Aug. 30; Sp. p. 6543; Gaz. vol. 157; p. 1139.
Brush for hair-tinting. E. G. Helm. No. 961,127; June 14; Sp. p. 1791; Gaz. vol. 155; p. 324.
Brush for plan sifters, Sliding. E. Roth. No. 976,697; Nov. 22; Sp. p. 5745; Gaz. vol. 160; p. 973.
Brush for power marking-machines. W. W. McCoy. No. 975,883; Nov. 15; Sp. p. 3978; Gaz. vol. 160; p. 670.
Brush, Fountain-. W. E. Miller. No. 950,074; Feb. 22; Sp. p. 4878; Gaz. vol. 151; p. 858.
Brush, Fountain-. J. Danbeck and V. Lawrence. No. 950,612; Mar. 1; Sp. p. 314; Gaz. vol. 152; p. 51.
Brush, Fountain-. W. L. Clark. No. 953,371; Mar. 29; Sp. p. 6019; Gaz. vol. 152; p. 1081.
Brush, Fountain-. W. L. Clark. No. 953,372; Mar. 29; Sp. p. 6020; Gaz. vol. 152; p. 1082.
Brush, Fountain-. W. L. Clark. No. 953,376; Mar. 29; Sp. p. 6029; Gaz. vol. 152; p. 1083.
Brush, Fountain-. L. R. Reed. No. 954,133; Apr. 5; Sp. p. 901; Gaz. vol. 153; p. 156.
Brush, Fountain-. A. D. Cardinet. No. 965,075; July 19; Sp. p. 4502; Gaz. vol. 156; p. 749.
Brush, Fountain-. C. E. Stubbs. No. 967,686; Aug. 16; Sp. p. 3925; Gaz. vol. 157; p. 674.
Brush, Fountain-. J. W. McCardle and C. M. Chapman. No. 968,186; Aug. 23; Sp. p. 5025; Gaz. vol. 157; p. 866.
Brush, Fountain marking-. C. W. Howe. No. 950,483; Mar. 1; Sp. p. 41; Gaz. vol. 152; p. 9.
Brush, Fountain shaving-. H. H. Woodmansee. No. 953,452; Mar. 29; Sp. p. 6188; Gaz. vol. 152; p. 1109.
Brush, Fountain toilet-. W. T. Schaefer and J. E. Steers. No. 974,994; Nov. 8; Sp. p. 2093; Gaz. vol. 160; p. 341.
Brush, Fountain tooth-. F. L. MacDonald. No. 965,309; July 26; Sp. p. 4985; Gaz. vol. 156; p. 858.
Brush-handle, Adjustable. C. W. Mabey. No. 960,655; June 7; Sp. p. 849; Gaz. vol. 155; p. 140.
Brush having sponge surface, Fountain bath-. B. D. Knickerbocker. No. 956,105; Apr. 26; Sp. p. 5235; Gaz. vol. 153; p. 920.
Brush-holder. R. Siegfried. No. 956,739; May 3; Sp. p. 511; Gaz. vol. 154; p. 82.
Brush-holder. P. T. Flach. No. 959,211; May 24; Sp. p. 6061; Gaz. vol. 154; p. 1013.
Brush-holder. A. Freier. No. 960,875; June 7; Sp. p. 1280; Gaz. vol. 155; p. 214.
Brush-holder. M. Brodeur. No. 963,508; July 5; Sp. p. 1090; Gaz. vol. 156; p. 166.
Brush-holder. R. B. Williamson. No. 967,474; Aug. 16; Sp. p. 3505; Gaz. vol. 157; p. 603.
Brush-holder. E. R. Knight. No. 967,527; Aug. 16; Sp. p. 3621; Gaz. vol. 157; p. 622.
Brush-holder. W. T. Hensley. No. 975,424; Nov. 15; Sp. p. 3008; Gaz. vol. 160; p. 513.
Brush-holder. F. W. Reeves. No. 977,400; Nov. 29; Sp. p. 7343; Gaz. vol. 160; p. 1242.

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Brush holder, Paint-. C. H. Jorey. No. 955,646; Apr. 19; Sp. p. 4229; Gaz. vol. 153; p. 733.
Brush holder, Tooth-. E. L. Smith. No. 973,311; Oct. 18; Sp. p. 3964; Gaz. vol. 159; p. 678.
Brush-holders and similar devices, Manufacturing parts of. J. M. Barr. No. 969,511; Sept. 6; Sp. p. 760; Gaz. vol. 158; p. 120.
Brush, Jeweler's polishing-. W. Dixon. No. 960,216; May 31; Sp. p. 8194; Gaz. vol. 154; p. 1379.
Brush-making apparatus. G. D. Pushee. No. 957,255; May 10; Sp. p. 1633; Gaz. vol. 154; p. 288.
Brush-making machinery. A. S. Payne and B. J. Wade. No. 958,431; May 17; Sp. p. 4437; Gaz. vol. 154; p. 725.
Brush, Metallic. R. Henry. No. 946,512; Jan. 11; Sp. p. 3400; Gaz. vol. 150; p. 544.
Brush, Polishing-. J. H. Doyle. No. 946,938; Jan. 18; Sp. p. 4335; Gaz. vol. 150; p. 712.
Brush, Revolving upholsterer's. D. R. Johnson. No. 962,433; June 28; Sp. p. 4628; Gaz. vol. 155; p. 817.
Brush, Rotary. M. Cummins. No. 950,128; Feb. 22; Sp. p. 4990; Gaz. vol. 151; p. 877.
Brush, Rotary. J. W. Adler. No. 961,061; June 7; Sp. p. 1655; Gaz. vol. 155; p. 276.
Brush, Rotary. C. L. Friedey. No. 980,091; Dec. 27; Sp. p. 5787; Gaz. vol. 161; p. 992.
Brush, Scrubbing-. J. P. Raymond and C. E. Baker. No. 954,542; Apr. 12; Sp. p. 1804; Gaz. vol. 153; p. 324.
Brush, Scrubbing-. J. L. Pate. No. 969,184; Sept. 6; Sp. p. 90; Gaz. vol. 158; p. 14.
Brush, Shaving-. H. H. Belknap. No. 949,642; Feb. 15; Sp. p. 3884; Gaz. vol. 151; p. 676.
Brush, Shaving-. W. H. J. Downey. No. 950,377; Feb. 22; Sp. p. 5493; Gaz. vol. 151; p. 961.
Brush, Shaving-. J. C. Ramey. No. 967,236; Aug. 16; Sp. p. 3019; Gaz. vol. 157; p. 522.
Brush, Toilet-. G. L. Street, Jr. No. 972,483; Oct. 11; Sp. p. 2092; Gaz. vol. 159; p. 364.
Brush, Tooth-. R. Ludington. No. 949,587; Feb. 15; Sp. p. 3781; Gaz. vol. 151; p. 658.
Brush, Tooth-. D. H. Danek. No. 958,371; May 17; Sp. p. 4309; Gaz. vol. 154; p. 703.
Brush, Tooth-. E. L. McCain. No. 967,413; Aug. 16; Sp. p. 3388; Gaz. vol. 157; p. 584.
Brush, Tooth-. L. Langh. No. 969,639; Sept. 6; Sp. p. 1040; Gaz. vol. 158; p. 167.
Brush, Wire. E. E. Rice. No. 969,191; Sept. 6; Sp. p. 103; Gaz. vol. 158; p. 17.
Brushes and the like, Manufacture of flexible tubes for fountain paint-. G. Meyer. No. 976,899; Nov. 29; Sp. p. 6201; Gaz. vol. 160; p. 1067.
Brushes, Bristle-rim for rotary. I. Abrahmsohn. No. 955,738; Apr. 19; Sp. p. 4430; Gaz. vol. 153; p. 764.
Brushing and polishing machine, Shoe. J. A. Brewer. No. 955,941; Apr. 26; Sp. p. 4874; Gaz. vol. 153; p. 862.
Bucket. J. S. Barron. No. 959,695; May 31; Sp. p. 7060; Gaz. vol. 154; p. 1199.
Bucket. F. Wagner. No. 974,217; Nov. 1; Sp. p. 256; Gaz. vol. 160; p. 42.
Bucket. D. C. McCan. No. 978,181; Dec. 13; Sp. p. 1667; Gaz. vol. 161; p. 293.
Bucket, Bottom-dump. G. Focht. No. 946,726; Jan. 18; Sp. p. 3822; Gaz. vol. 150; p. 638.
Bucket, Bottom-dump. G. Focht. No. 952,894; Mar. 22; Sp. p. 4973; Gaz. vol. 152; p. 895.
Bucket, Bottom-dumping. G. L. Stuebner. No. 954,480; Apr. 12; Sp. p. 1671; Gaz. vol. 153; p. 302.
Bucket, Bottom-dumping. G. L. Stuebner. No. 962,930; June 28; Sp. p. 5649; Gaz. vol. 155; p. 989.
Bucket, Clam-shell. E. Murrey. No. 956,137; Apr. 26; Sp. p. 5306; Gaz. vol. 153; p. 933.
Bucket-cutting machines, Milling attachment for. J. Riddell. No. 970,554; Sept. 20; Sp. p. 3010; Gaz. vol. 158; p. 524.
Bucket, Dump-. G. H. Budke. No. 958,222; May 17; Sp. p. 3852; Gaz. vol. 154; p. 651.
Bucket, Dumping-. A. W. French. No. 965,511; July 26; Sp. p. 5433; Gaz. vol. 156; p. 927.
Bucket, Dumping-. C. W. Hunt. No. 967,922; Aug. 23; Sp. p. 4415; Gaz. vol. 157; p. 777.
Bucket, Dumping-. A. W. French. No. 975,345; Nov. 8; Sp. p. 2848; Gaz. vol. 160; p. 460.
Bucket-ear. H. L. Pague. No. 965,732; July 26; Sp. p. 5907; Gaz. vol. 156; p. 1004.
Bucket, Fruit-. T. Meixner. No. 956,715; May 3; Sp. p. 464; Gaz. vol. 154; p. 74.
Bucket, Grab-. A. E. Brown. No. 947,540; Jan. 25; Sp. p. 5670; Gaz. vol. 150; p. 942.
Bucket-handle, Tipping. A. T. McCanlis. No. 964,118; July 12; Sp. p. 2404; Gaz. vol. 156; p. 394.
Bucket, Minnow-. C. Sonke. No. 965,662; July 26; Sp. p. 5764; Gaz. vol. 156; p. 981.
Bucket, Sanitary. A. P. Krummert. No. 952,676; Mar. 22; Sp. p. 4522; Gaz. vol. 152; p. 822.
Bucket, Self-closing bottom-dumping. R. N. Schalkenbach. No. 958,323; May 17; Sp. p. 4213; Gaz. vol. 154; p. 688.
Bucket, Sewer-. A. W. Shirk. No. 951,202; Mar. 8; Sp. p. 1491; Gaz. vol. 152; p. 269.
Bucket, Stock feed-. J. F. Alexander. No. 953,773; Apr. 5; Sp. p. 180; Gaz. vol. 153; p. 33.
Bucket, Telescopic. C. A. Frayer. No. 977,608; Dec. 6; Sp. p. 440; Gaz. vol. 161; p. 65.
Bucking apparatus. E. Bonnin. No. 975,116; Nov. 8; Sp. p. 2354; Gaz. vol. 160; p. 383.
Buckle. J. Stanley. No. 946,884; Jan. 18; Sp. p. 4221; Gaz. vol. 150; p. 694.
Buckle. G. M. Hubbard. No. 946,917; Jan. 18; Sp. p. 4304; Gaz. vol. 150; p. 706.
Buckle. J. F. Molloy. No. 946,974; Jan. 18; Sp. p. 4407; Gaz. vol. 150; p. 725.
Buckle. J. S. Sourek. No. 947,284; Jan. 25; Sp. p. 5055; Gaz. vol. 150; p. 855.
Buckle. J. R. Kidney. No. 947,970; Feb. 1; Sp. p. 403; Gaz. vol. 151; p. 65.
Buckle. A. R. Collicutt. No. 950,476; Mar. 1; Sp. p. 30; Gaz. vol. 152; p. 6.
Buckle. J. F. Dunn. No. 950,901; Mar. 1; Sp. p. 925; Gaz. vol. 152; p. 148.
Buckle. J. M. Brown. No. 950,992; Mar. 1; Sp. p. 1099; Gaz. vol. 152; p. 177.
Buckle. I. T. Thorne. No. 954,227; Apr. 5; Sp. p. 1142; Gaz. vol. 153; p. 190.
Buckle. E. N. Humphrey. No. 954,395; Apr. 5; Sp. p. 1478; Gaz. vol. 153; p. 246.
Buckle. A. Nordlund. No. 956,149; Apr. 26; Sp. p. 5331; Gaz. vol. 153; p. 937.
Buckle. P. R. Tuttle. No. 956,909; May 3; Sp. p. 896; Gaz. vol. 154; p. 142.
Buckle. E. B. Anderson. No. 958,065; May 17; Sp. p. 3539; Gaz. vol. 154; p. 597.
Buckle. W. A. Holden. No. 958,397; May 17; Sp. p. 4365; Gaz. vol. 154; p. 713.
Buckle. W. A. Holden. No. 959,138; May 24; Sp. p. 5909; Gaz. vol. 154; p. 989.
Buckle. W. A. Holden. No. 960,325; June 7; Sp. p. 170; Gaz. vol. 155; p. 31.
Buckle. J. E. Smith. No. 960,593; June 7; Sp. p. 723; Gaz. vol. 155; p. 119.
Buckle. J. A. Wheeler, Jr. No. 963,193; July 5; Sp. p. 423; Gaz. vol. 156; p. 60.
Buckle. S. S. Arnold. No. 963,201; July 5; Sp. p. 438; Gaz. vol. 156; p. 62.
Buckle. J. A. Wheeler, Jr. No. 964,136; July 12; Sp. p. 2439; Gaz. vol. 156; p. 400.
Buckle. J. W. Johnson. No. 964,973; July 19; Sp. p. 4291; Gaz. vol. 156; p. 716.
Buckle. S. Warren. No. 965,425; July 26; Sp. p. 5239; Gaz. vol. 156; p. 897.
Buckle. H. D. Sargent. No. 967,445; Aug. 16; Sp. p. 3443; Gaz. vol. 157; p. 593.
Buckle. A. Van Duzer. No. 967,588; Aug. 16; Sp. p. 3740; Gaz. vol. 157; p. 643.
Buckle. W. A. Holden. No. 970,374; Sept. 13; Sp. p. 2624; Gaz. vol. 158; p. 442.
Buckle. M. Schwartz. No. 971,694; Oct. 4; Sp. p. 379; Gaz. vol. 159; p. 67.
Buckle. W. D. Flynn. No. 975,942; Nov. 15; Sp. p. 4094; Gaz. vol. 160; p. 691.
Buckle. J. B. Hawkins. No. 976,799; Nov. 22; Sp. p. 5971; Gaz. vol. 160; p. 1008.
Buckle. J. C. Bowers. No. 977,999; Dec. 6; Sp. p. 1247; Gaz. vol. 161; p. 199.
Buckle. I. H. Abell. No. 978,101; Dec. 6; Sp. p. 1461; Gaz. vol. 161; p. 236.
Buckle. A. Burke. No. 979,744; Dec. 27; Sp. p. 5027; Gaz. vol. 161; p. 878.
Buckle and strap loop. F. Conway. No. 970,184; Sept. 13; Sp. p. 2222; Gaz. vol. 158; p. 378.
Buckle, Back-band. J. A. Henson. No. 979,490; Dec. 27; Sp. p. 4470; Gaz. vol. 161; p. 790.
Buckle, Baling-tie. D. W. Bartran. No. 948,585; Feb. 8; Sp. p. 1710; Gaz. vol. 151; p. 296.
Buckle, Belt-. J. F. Dunn. No. 980,077; Dec. 27; Sp. p. 5747; Gaz. vol. 161; p. 988.
Buckle, Cross-line. H. Hall. No. 961,347; June 14; Sp. p. 2286; Gaz. vol. 155; p. 404.
Buckle, Cross-line. F. Knobel. No. 971,759; Oct. 4; Sp. p. 525; Gaz. vol. 159; p. 91.
Buckle, Double-rein. W. H. Pipes and D. W. Fugler. No. 952,712; Mar. 22; Sp. p. 4600; Gaz. vol. 152; p. 834.
Buckle-fastening. E. M. Chapman. No. 973,918; Oct. 25; Sp. p. 5257; Gaz. vol. 159; p. 912.
Buckle for bale-ties. D. E. Eddleman and J. E. Armstrong. No. 972,834; Oct. 18; Sp. p. 2877; Gaz. vol. 159; p. 512.
Buckle for use on suspenders. C. S. Comstock. No. 965,370; July 26; Sp. p. 5119; Gaz. vol. 156; p. 878.
Buckle-frames, Machine for forming. C. S. Huntington. No. 959,941; May 31; Sp. p. 7612; Gaz. vol. 154; p. 1285.
Buckle, Harness-. G. Schoenberger. No. 963,078; July 5; Sp. p. 107; Gaz. vol. 156; p. 19.
Buckle or elastic link. J. J. Jacobs. No. 969,060; Aug. 30; Sp. p. 6853; Gaz. vol. 157; p. 1192.
Buckle, Ornamental suspender-. E. N. Humphrey. No. 948,094; Feb. 1; Sp. p. 661; Gaz. vol. 151; p. 107.
Buckle, Rope-. S. Kvam. No. 947,388; Jan. 25; Sp. p. 5302; Gaz. vol. 150; p. 891.
Buckle, Rope-. G. L. Leisner. No. 977,642; Dec. 6; Sp. p. 511; Gaz. vol. 161; p. 76.
Buckle, Suspender-. W. Jacobs and P. Forschler. No. 952,619; Mar. 22; Sp. p. 4393; Gaz. vol. 152; p. 802.

Alphabetical list of inventions—Continued.

Buckle, Trace-. W. M. Giffee. No. 957,415; May 10; Sp. p. 1978; Gaz. vol. 154; p. 342.
Buckle, Trace-. E. C. Kimball. No. 959,868; May 31; Sp. p. 7442; Gaz. vol. 154; p. 1259.
Buckle, Trace-. W. W. Welch. No. 961,823; June 21; Sp. p. 3283; Gaz. vol. 155; p. 585.
Buckle, Tug-. C. C. De Witt and C. B. Stiles. No. 951,727; Mar. 8; Sp. p. 2540; Gaz. vol. 152; p. 442.
Buckle, Tug-. T. A. McKee. No. 976,090; Nov. 15; Sp. p. 4371; Gaz. vol. 160; p. 743.
Buffer. C. Buss. No. 965,073; July 19; Sp. p. 4497; Gaz. vol. 156; p. 748.
Buffer. J. C. Regan. No. 967,674; Aug. 16; Sp. p. 3904; Gaz. vol. 157; p. 670.
Buffer. J. W. Campbell. No. 971,970; Oct. 4; Sp. p. 1027; Gaz. vol. 159; p. 171.
Buffer and fender, Combined. G. Hipwood. No. 967,380; Aug. 16; Sp. p. 3299; Gaz. vol. 157; p. 572.
Buffer, Friction-. J. Nichols. No. 945,473; Jan. 4; Sp. p. 1004; Gaz. vol. 150; p. 157.
Buffer, Swinging. A. Christianson. No. 962,818; June 28; Sp. p. 5441; Gaz. vol. 155; p. 951.
Buffing and polishing machine. A. B. Nutting. No. 973,135; Oct. 18; Sp. p. 3580; Gaz. vol. 159; p. 618.
Buffing-machine. J. F. Gail. No. 957,198; May 10; Sp. p. 1495; Gaz. vol. 154; p. 267.
Buffing-machine. J. F. Gail. No. 959,502; May 31; Sp. p. 6667; Gaz. vol. 154; p. 1136.
Buffing-machine. A. B. Fowler. No. 972,843; Oct. 18; Sp. p. 2897; Gaz. vol. 159; p. 515.
Buffing machinery. J. F. Gail. No. 957,201; May 10; Sp. p. 1510; Gaz. vol. 154; p. 268.
Buffing mechanism. R. D. Gallagher, Jr. No. 974,654; Nov. 1; Sp. p. 1312; Gaz. vol. 160; p. 203.
Buffing or polishing wheel. F. M. Levett. No. 945,177; Jan. 4; Sp. p. 351; Gaz. vol. 150; p. 59.
Bug and worm killing machine. L. Thortvedt. No. 957,634; May 10; Sp. p. 2407; Gaz. vol. 154; p. 417.
Bug-destroying device. A. Lima. No. 973,359; Oct. 18; Sp. p. 4064; Gaz. vol. 159; p. 696.
Buggy-boot. J. E. Carroll. No. 960,629; June 7; Sp. p. 802; Gaz. vol. 155; p. 131.
Buggy-boot spring. T. Sizer. No. 947,949; Feb. 1; Sp. p. 360; Gaz. vol. 151; p. 58.
Buggy-bow rest. J. A. Stafford. No. 973,718; Oct. 25; Sp. p. 4846; Gaz. vol. 159; p. 843.
Buggy-evener. E. A. Kast. No. 956,973; May 3; Sp. p. 1037; Gaz. vol. 154; p. 163.
Buggy-shackle. C. F. Perry. No. 966,401; Aug. 2; Sp. p. 1149; Gaz. vol. 157; p. 186.
Buggy-top and rein and robe holder, Combined. A. Hitt. No. 965,459; July 26; Sp. p. 5317; Gaz. vol. 156; p. 908.
Buggy-top attachment. W. P. Bliss. No. 950,038; Feb. 22; Sp. p. 4824; Gaz. vol. 151; p. 848.
Buggy-top attachment. E. C. F. Becker. No. 968,527; Aug. 30; Sp. p. 5732; Gaz. vol. 157; p. 1010.
Buggy-top clip. J. C. and J. M. Horn. No. 960,326; June 7; Sp. p. 173; Gaz. vol. 155; p. 32.
Buggy-top support. E. McCoy. No. 947,738; Jan. 25; Sp. p. 6048; Gaz. vol. 150; p. 1008.
Builder's apparatus. J. Daisley. No. 966,801; Aug. 9; Sp. p. 2101; Gaz. vol. 157; p. 349.
Builder's apparatus. J. Daisley. No. 966,802; Aug. 9; Sp. p. 2105; Gaz. vol. 157; p. 349.
Builder's bracket. A. H. Danforth. No. 968,836; Aug. 30; Sp. p. 6401; Gaz. vol. 157; p. 1116.
Builder's jack. G. W. Hause. No. 945,162; Jan. 4; Sp. p. 321; Gaz. vol. 150; p. 54.
Building-block. F. H. Neuberger. No. 945,859; Jan. 11; Sp. p. 1907; Gaz. vol. 150; p. 317.
Building-block. O. Brumbaugh. No. 946,330; Jan. 11; Sp. p. 2904; Gaz. vol. 150; p. 481.
Building-block. S. H. Wightman. No. 948,752; Feb. 8; Sp. p. 2064; Gaz. vol. 151; p. 352.
Building-block. W. B. Bolles. No. 950,609; Mar. 1; Sp. p. 309; Gaz. vol. 152; p. 50.
Building-block. D. McIntyre. No. 952,080; Mar. 15; Sp. p. 3278; Gaz. vol. 152; p. 590.
Building block. O. F. Mann. No. 952,918; Mar. 22; Sp. p. 5024; Gaz. vol. 152; p. 903.
Building-block. A. D'Elia. No. 959,846; May 31; Sp. p. 7391; Gaz. vol. 154; p. 1251.
Building-block. W. R. Dodds. No. 960,217; May 31; Sp. p. 8195; Gaz. vol. 154; p. 1380.
Building-block. L. Phillips. No. 962,463; June 28; Sp. p. 4695; Gaz. vol. 155; p. 828.
Building-block. F. W. MacQuesten. No. 966,226; Aug. 2; Sp. p. 821; Gaz. vol. 157; p. 131.
Building-block. W. G. Bate. No. 968,731; Aug. 30; Sp. p. 6195; Gaz. vol. 157; p. 1082.
Building-block. E. M. Campfield. No. 969,036; Aug. 30; Sp. p. 6797; Gaz. vol. 157; p. 1184.
Building-block. H. Hradilek. No. 973,785; Oct. 25; Sp. p. 4976; Gaz. vol. 159; p. 865.
Building-block. F. Burchartz. No. 978,002; Dec. 6; Sp. p. 1251; Gaz. vol. 161; p. 200.
Building-block. J. M. Ault. No. 979,913; Dec. 27; Sp. p. 5406; Gaz. vol. 161; p. 935.

Building-block bonding and tie plate. G. M. Griswold and H. C. Beagley. No. 977,794; Dec. 6; Sp. p. 821; Gaz. vol. 161; p. 128.
Building-block, Interlocking cellular. L. Ribereau y Marteaux. No. 958,413; May 17; Sp. p. 4392; Gaz. vol. 154; p. 717.
Building-block machine. H. Pocock. No. 971,213; Sept. 27; Sp. p. 4423; Gaz. vol. 158; p. 775.
Building-block mold. C. J. T. Cordes. No. 950,370; Feb. 22; Sp. p. 5472; Gaz. vol. 151; p. 959.
Building-block mold. J. W. Bragstad. No. 962,303; June 21; Sp. p. 4334; Gaz. vol. 155; p. 748.
Building-block mold, Hollow-. J. C. Vreeland. No. 973,323; Oct. 18; Sp. p. 3990; Gaz. vol. 159; p. 683.
Building-block-molding machine. J. R. Vinsant. No. 966,271; Aug. 2; Sp. p. 905; Gaz. vol. 157; p. 145.
Building-block tie. J. M. Crocker and F. T. Tappan. No. 952,878; Mar. 22; Sp. p. 4943; Gaz. vol. 152; p. 890.
Building-block-trimming machine. F. Koch. No. 945,847; Jan. 11; Sp. p. 1882; Gaz. vol. 150; p. 313.
Building-blocks. G. A. Kahl. No. 960,948; June 7; Sp. p. 1412; Gaz. vol. 155; p. 238.
Building blocks and wall. H. Van Caeyseele. No. 955,230; Apr. 19; Sp. p. 3319; Gaz. vol. 153; p. 592.
Building-blocks, Apparatus for making hollow. F. Burchartz. No. 978,003; Dec. 6; Sp. p. 1253; Gaz. vol. 161; p. 201.
Building-blocks, Manufacture of. C. Körtling and C. Jaentsch. No. 957,351; May 10; Sp. p. 1850; Gaz. vol. 154; p. 322.
Building-blocks, Molding artificial-stone. A. O. Thomas. No. 958,194; May 17; Sp. p. 3800; Gaz. vol. 154; p. 642.
Building construction. S. B. Minnich. No. 946,066; Jan. 11; Sp. p. 2334; Gaz. vol. 150; p. 388.
Building construction. J. Kahn. No. 948,395; Feb. 8; Sp. p. 1297; Gaz. vol. 151; p. 233.
Building construction. T. J. George. No. 971,035; Sept. 27; Sp. p. 4040; Gaz. vol. 158; p. 716.
Building construction. H. I. Jeffers. No. 975,692; Nov. 15; Sp. p. 3595; Gaz. vol. 160; p. 606.
Building construction. H. I. Jeffers. No. 980,102; Dec. 27; Sp. p. 5806; Gaz. vol. 161; p. 996.
Building construction, Bond-plate for. E. S. Heller. No. 956,347; Apr. 26; Sp. p. 5771; Gaz. vol. 153; p. 1004.
Building construction, False work for. A. Arnn. No. 962,295; June 21; Sp. p. 4320; Gaz. vol. 155; p. 745.
Building foundation. F. Schär. No. 951,028; Mar. 1; Sp. p. 1155; Gaz. vol. 152; p. 189.
Building-frame. C. Worthington. No. 946,189; Jan. 11; Sp. p. 2598; Gaz. vol. 150; p. 431.
Building-frame structure, Composite. R. H. Robinson. No. 973,814; Oct. 25; Sp. p. 5034; Gaz. vol. 159; p. 875.
Building-frame structure, Composite. R. H. Robinson. No. 973,815; Oct. 25; Sp. p. 5035; Gaz. vol. 159; p. 875.
Building-frames, &c., Coupling for members for. D. J. Daly. No. 949,394; Feb. 15; Sp. p. 3406; Gaz. vol. 151; p. 595.
Building material. W. E. Brock. No. 971,967; Oct. 4; Sp. p. 1023; Gaz. vol. 159; p. 170.
Building purposes, Machine for producing slabs for. J. C. Snelling. No. 949,505; Feb. 15; Sp. p. 3613; Gaz. vol. 151; p. 630.
Building-wall. A. J. Kopren. No. 953,534; Mar. 29; Sp. p. 6370; Gaz. vol. 152; p. 1140.
Building-walls, Machine for pointing. C. Hansson. No. 951,242; Mar. 8; Sp. p. 1568; Gaz. vol. 152; p. 282.
Building-work, Process of and apparatus for producing. L. Callahan. No. 946,332; Jan. 11; Sp. p. 2907; Gaz. vol. 150; p. 482.
Buildings and other structures, Apparatus for the construction of supports for. J. B. Goldsborough. No. 979,474; Dec. 27; Sp. p. 4436; Gaz. vol. 161; p. 784.
Buildings and other structures, Method and apparatus for construction of supports of. J. B. Goldsborough. No. 961,438; June 14; Sp. p. 2459; Gaz. vol. 155; p. 433.
Buildings, Constructing foundations of. J. Breuchaud. No. 957,844; May 10; Sp. p. 2835; Gaz. vol. 154; p. 486.
Buildings, Lining or back plaster for. C. D. Jennings. No. 960,554; June 7; Sp. p. 649; Gaz. vol. 155; p. 106.
Buildings, Moisture-proof interior covering or lining for use in. L. Sauerbeck. No. 978,655; Dec. 13; Sp. p. 2693; Gaz. vol. 161; p. 458.
Built-up die. J. H. Ames. No. 958,459; May 17; Sp. p. 4492; Gaz. vol. 154; p. 735.
Bull-wheel, Derrick. A. M. Kruger. No. 979,173; Dec. 20; Sp. p. 3828; Gaz. vol. 161; p. 662.
Bulldozer. R. H. Schweitzer. No. 979,099; Dec. 20; Sp. p. 3642; Gaz. vol. 161; p. 633.
Bullet. C. Ross. No. 949,028; Feb. 15; Sp. p. 2645; Gaz. vol. 151; p. 471.
Bullet. G. A. Muenzenmaier and F. M. See. No. 974,418; Nov. 1; Sp. p. 762; Gaz. vol. 160; p. 115.
Bullet, Expanding. J. Schenk. No. 948,148; Feb. 1; Sp. p. 760; Gaz. vol. 151; p. 125.
Bulletin-board. G. H. Parker. No. 962,164; June 21; Sp. p. 4046; Gaz. vol. 155; p. 703.
Bulletin-board. I. S. Parkey. No. 968,596; Aug. 30; Sp. p. 5871; Gaz. vol. 157; p. 1035.

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Bulletin-board. J. M. Johnson. No. 969,703; Sept. 6; Sp. p. 1161; Gaz. vol. 158; p. 188.
Bundle-carrier. C. S. Sharp. No. 949,334; Feb. 15; Sp. p. 3257; Gaz. vol. 151; p. 572.
Bundle or package tie. F. S. Chappell. No. 959,310; May 24; Sp. p. 6254; Gaz. vol. 154; p. 1046.
Bundle-tying device. J. Gregory. No. 960,089; May 31; Sp. p. 7952; Gaz. vol. 154; p. 1336.
Bundle-wiring machine. T. Magson. No. 956,387; Apr. 26; Sp. p. 5853; Gaz. vol. 153; p. 1018.
Bundling-machine. C. Owens. No. 948,244; Feb. 1; Sp. p. 946; Gaz. vol. 151; p. 156.
Bundling-machine. H. Zimmerman. No. 961,709; June 14; Sp. p. 3023; Gaz. vol. 155; p. 523.
Bundling-machine. R. C. Lowry and L. F. Winter. No. 972,389; Oct. 11; Sp. p. 1891; Gaz. vol. 159; p. 322.
Bung. J. Falasca. No. 953,129; Mar. 29; Sp. p. 5492; Gaz. vol. 152; p. 1002.
Bung. J. T. Delaney. No. 956,797; May 3; Sp. p. 636; Gaz. vol. 154; p. 101.
Bung. P. Heine. No. 974,378; Nov. 1; Sp. p. 680; Gaz. vol. 160; p. 102.
Bung and tap, Barrel. E. Friedman. No. 976,647; Nov. 22; Sp. p. 5663; Gaz. vol. 160; p. 958.
Bung-extractor. M. P. Schmidt. No. 953,439; Mar. 29; Sp. p. 6157; Gaz. vol. 152; p. 1105.
Bung-extractor. J. S. McLeroy. No. 965,481; July 26; Sp. p. 5356; Gaz. vol. 156; p. 917.
Bungs, &c., Handle for. R. and A. M. Stock. No. 975,174; Nov. 8; Sp. p. 2490; Gaz. vol. 160; p. 403.
Bunk-dog. B. Tucker. No. 972,041; Oct. 4; Sp. p. 1163; Gaz. vol. 159; p. 196.
Bunsen burners, Gas-regulator for. F. S. Parker. No. 964,804; July 19; Sp. p. 3955; Gaz. vol. 156; p. 657.
Buoy. T. Matthews. No. 977,959; Dec 6; Sp. p. 1170; Gaz. vol. 161; p. 187.
Buoy, Mooring-. W. P. Jordan. No. 970,339; Sept. 13; Sp. p. 2550; Gaz. vol. 158; p. 430.
Buoy, Reel life-. A. Rust. No. 951,846; Mar. 15; Sp. p. 2818; Gaz. vol. 152; p. 514.
Bur-remover. E. H. Lescure. No. 963,596; July 5; Sp. p. 1278; Gaz vol. 156; p. 196.
Bur-remover. A. J. Sellers. No. 963,725; July 5; Sp. p. 1530; Gaz. vol. 156; p. 238.
Bureau, Portable. O. Rangnow. No. 947,939; Feb. 1; Sp. p. 342; Gaz. vol. 151; p. 55.
Burglar-alarm. J. A. Helquist. No. 945,946; Jan. 11; Sp. p. 2096; Gaz. vol. 150; p. 349.
Burglar-alarm. H. M. Sciple. No. 947,132; Jan. 18; Sp. p. 4689; Gaz. vol. 150; p. 774.
Burglar-alarm. O. J. Burst. No. 950,762; Mar. 1; Sp. p. 642; Gaz. vol. 152; p. 103.
Burglar-alarm. J. G. Payton. No. 956,160; Apr. 26; Sp. p. 5358; Gaz. vol. 153; p. 941.
Burglar-alarm. S. Chritchfield. No. 956,288; Apr. 26; Sp. p. 5654; Gaz. vol. 153; p. 984.
Burglar-alarm. C. C. Ranlett. No. 956,414; Apr. 26; Sp. p. 5904; Gaz. vol. 153; p. 1027.
Burglar-alarm. W. G. Tillman. No. 957,635; May 10; Sp. p. 2412; Gaz. vol. 154; p. 417.
Burglar-alarm. E. A. Canavan. No. 963,118; July 5; Sp. p. 241; Gaz. vol. 156; p. 32.
Burglar-alarm. S. Hambourger. No. 968,469; Aug. 23; Sp. p. 5591; Gaz. vol. 157; p. 965.
Burglar-alarm. W. H. Cook. No. 970,468; Sept. 20; Sp. p. 2827; Gaz. vol. 158; p. 494.
Burglar-alarm. C. H. Smith. No. 970,565; Sept. 20; Sp. p. 3034; Gaz. vol. 158; p. 528.
Burglar-alarm. G. H. Chappell. No. 971,729; Oct. 4; Sp. p. 465; Gaz. vol. 159; p. 80.
Burglar-alarm. L. Myers. No. 971,776; Oct. 4; Sp. p. 554; Gaz. vol. 159; p. 97.
Burglar-alarm. F. L. Holmes. No. 975,952; Nov. 15; Sp. p. 4112; Gaz. vol. 160; p. 694.
Burglar-alarm and telephone system, Combined. J. G. Nolen. No. 946,259; Jan. 11; Sp. p. 2751; Gaz. vol. 150; p. 457.
Burglar-alarm, Automatic. H. B. Collier. No. 978,269; Dec. 13; Sp. p. 1854; Gaz. vol. 161; p. 324.
Burglar-alarm, Car-door. G. A. Ulrich. No. 954,231; Apr. 5; Sp. p. 1148; Gaz. vol. 153; p. 191.
Burglar-alarm for vaults, safes, or the like, Electric. E. Seragnoli. No. 949,451; Feb. 15; Sp. p. 3506; Gaz. vol. 151; p. 612.
Burglar-alarm, Repeating. E. Allen. No. 971,813; Oct. 4; Sp. p. 630; Gaz. vol. 159; p. 110.
Burglar-alarm systems, Electric cable for. J. P. Williams. No. 961,827; June 21; Sp. p. 3291; Gaz. vol. 155; p. 587.
Burglar and fire alarm. B. Kohlen. No. 950,853; Mar. 1; Sp. p. 833; Gaz. vol. 152; p. 134.
Burglar apparatus. M. Plesec. No. 978,396; Dec. 13; Sp. p. 2120; Gaz. vol. 161; p. 369.
Burglar-trap vault. E. R. Eckman. No. 948,922; Feb. 8; Sp. p. 2399; Gaz. vol. 151; p. 408.
Burial casing or vault, Metallic. H. D. Clark. No. 951,364; Mar. 8; Sp. p. 1833; Gaz. vol. 152; p. 321.
Burling-combs. C. Maryns and R. Verlinde. No. 946,247; Jan. 11; Sp. p. 2725; Gaz. vol. 150; p. 453.
Burner: *See* Acetylene-burner; Automatic safety-burner; Bone-burner; Coke-oven burner; Electrically-lighted burner; Furnace-burner; Garbage-burner; Gas-burner; Gas and oil burner; Gaseous-fuel burner; Gasolene-burner; Headlight-burner; Heater-burner; Hydrocarbon-burner; Hydrocarbon injector-burner; Inverted mantle-burner; Kerosene-burner; Lamp-burner; Lamp gas-burner; Liquid-fuel burner; Oil-burner; Oil and gas burner; Oil brazing-burner; Oil or gas burner; Pilot-burner; Pressure-burner; Rubbish-burner; Safety-burner; Sawmill-refuse burner; Spray-burner; Stove-burner; Stubble-burner; Sulfur-burner; Vapor-burner; Vapor and steam burner; Vapor mantle-burner; Water-heater burner; Weed-burner; Welding-burner; Wick blue-flame burner.
Burner. C. C. and H. W. Foote. No. 948,009; Feb. 1; Sp. p. 473; Gaz. vol. 151; p. 77.
Burner. W. W. Case. No. 950,996; Mar. 1; Sp. p. 1104; Gaz. vol. 152; p. 178.
Burner. O. C. Musser. No. 954,125; Apr. 5; Sp. p. 887; Gaz. vol. 153; p. 154.
Burner. J. M. Green. No. 954,389; Apr. 5; Sp. p. 1465; Gaz. vol. 153; p. 244.
Burner. D. O. Rose. No. 954,702; Apr. 12; Sp. p. 2159; Gaz. vol. 153; p. 377.
Burner. S. C. Hix. No. 956,094; Apr. 26; Sp. p. 5217; Gaz. vol. 153; p. 917.
Burner. A. T. Still. No. 956,223; Apr. 26; Sp. p. 5515; Gaz. vol. 153; p. 962.
Burner. J. J. Riehl. No. 957,098; May 3; Sp. p. 1285; Gaz. vol. 154; p. 204.
Burner. A. C. Butler. No. 957,143; May 3; Sp. p. 1364; Gaz. vol. 154; p. 218.
Burner. O. M. Graves. No. 957,857; May 10; Sp. p. 2868; Gaz. vol. 154; p. 491.
Burner. F. E. Fender. No. 962,329; June 21; Sp. p. 4385; Gaz. vol. 155; p. 757.
Burner. G. J. McPherson. No. 962,971; June 28; Sp. p. 5716; Gaz. vol. 155; p. 1002.
Burner. D. L. Reese. No. 965,407; July 26; Sp. p. 5190; Gaz. vol. 156; p. 891.
Burner. A. Otto. No. 967,657; Aug. 16; Sp. p. 3869; Gaz. vol. 157; p. 664.
Burner. J. E. Flitcroft. No. 975,518; Nov. 15; Sp. p. 3213; Gaz. vol. 160; p. 547.
Burner. W. J. Hackmann. No. 975,859; Nov. 15; Sp. p. 3926; Gaz. vol. 160; p. 662.
Burner. J. P. Reinecke. No. 976,294; Nov. 22; Sp. p. 4891; Gaz. vol. 160; p. 836.
Burner and support for vaporizers. C. A. Butler. No. 960,500; June 7; Sp. p. 524; Gaz. vol. 155; p. 87.
Burner attachment. T. Mowcomber. No. 962,161; June 21; Sp. p. 4040; Gaz. vol. 155; p. 702.
Burner attachment. C. Miedel. No. 964,292; July 12; Sp. p. 2748; Gaz. vol. 156; p. 453.
Burner for combustion under high pressure. C. A. Backstrom. No. 974,624; Nov. 1; Sp. p. 1248; Gaz. vol. 160; p. 192.
Burner for fire-pots, blow-torches, and the like. E. Beyer. No. 970,416; Sept. 13; Sp. p. 2691; Gaz. vol. 158; p. 455.
Burner starting device. A. A. Ball, Jr. No. 974,111; Nov. 1; Sp. p. 9; Gaz. vol. 160; p. 4.
Burners, Heat-distributing top for. A. B. Coleman. No. 961,755; June 21; Sp. p. 3129; Gaz. vol. 155; p. 563.
Burning cement and other materials. P. T. Lindhard. No. 969,169; Sept. 6; Sp. p. 43; Gaz. vol. 158; p. 10.
Burnt-wood articles, Apparatus for producing. F. G. McAlpin. No. 959,783; May 31; Sp. p. 7238; Gaz. vol. 154; p. 1229.
Burnishing and scarifying device. G. Calvert. No. 967,724; Aug. 16; Sp. p. 4011; Gaz. vol. 157; p. 687.
Burnishing-machine. C. Pease. No. 959,880; May 31; Sp. p. 7471; Gaz. vol. 154; p. 1263.
Burnishing-machine. W. G. Dalton. No. 974,032; Oct. 25; Sp. p. 5492; Gaz. vol. 159; p. 952.
Burnishing-machine. C. Pease. No. 974,422; Nov. 1; Sp. p. 770; Gaz. vol. 160; p. 117.
Burnishing-machine. J. J. Murdoch. No. 975,886; Nov. 15; Sp. p. 3983; Gaz. vol. 160; p. 671.
Burrowing-pest destroyer. T. G. Hitt. No. 951,119; Mar. 8; Sp. p. 1327; Gaz. vol. 152; p. 243.
Bush for tap-holes of casks, barrels, jars, or other vessels. A. Nixon. No. 948,566; Feb. 8; Sp. p. 1661; Gaz. vol. 151; p. 290.
Bush-hook. R. W. Dunn. No. 961,218; June 14; Sp. p. 1986; Gaz. vol. 155; p. 358.
Bush-puller. J. G. O'Donnell. No. 959,377; May 24; Sp. p. 6392; Gaz. vol. 154; p. 1068.
Bust and abdominal supporter. B. Lazell. No. 977,455; Dec. 6; Sp. p. 57; Gaz. vol. 161; p. 12.
Butter box or receptacle, Creamery-. R. F. Stewart. No. 954,220; Apr. 5; Sp. p. 1127; Gaz. vol. 153; p. 187.
Butter-cutter. W. P. Hart. No. 949,929; Feb. 22; Sp. p. 4529; Gaz. vol. 151; p. 808.
Butter-cutter. W. P. Hart. No. 958,639; May 17; Sp. p. 4831; Gaz. vol. 154; p. 794.
Butter-cutter. F. Hostetter. No. 966,688; Aug. 9; Sp. p. 1817; Gaz. vol. 157; p. 310.
Butter-cutting tool. C. Glaus. No. 956,072; Apr. 26; Sp. p. 5169; Gaz. vol. 153; p. 910.

Alphabetical list of inventions—Continued.

Butter-cutting tool. C. Glaus. No. 969,947; Sept. 13; Sp. p. 1733; Gaz. vol. 158; p. 298.
Butter-making machine. R. Montague. No. 966,574; Aug. 9; Sp. p. 1599; Gaz. vol. 157; p. 272.
Butter, Manufacturing. W. Cole. No. 961,483; June 14; Sp. p. 2565; Gaz. vol. 155; p. 448.
Butter or cheese receptacle. E. D. Burton. No. 958,991; May 24; Sp. p. 5597; Gaz. vol. 154; p. 941.
Butter-pat-making device. F. W. Billings. No. 954,608; Apr. 12; Sp. p. 1949; Gaz. vol. 153; p. 345.
Butter-producing apparatus. R. A. Marshall. No. 979,524; Dec. 27; Sp. p. 4540; Gaz. vol. 161; p. 801.
Butter-separator. W. B. Spencer. No. 977,050; Nov. 29; Sp. p. 6569; Gaz. vol. 160; p. 1121.
Butter-spade. R. B. Disbrow. No. 969,528; Sept. 6; Sp. p. 807; Gaz. vol. 158; p. 126.
Butter-tester. C. Wagner. No. 955,725; Apr. 19; Sp. p. 4405; Gaz. vol. 153; p. 760.
Butter-treating apparatus. C. Glaus. No. 959,508; May 31; Sp. p. 6688; Gaz. vol. 154; p. 1138.
Butter-worker. E. Wells. No. 957,723; May 10; Sp. p. 2590; Gaz. vol. 154; p. 448.
Button. N. Tweet. No. 946,742; Jan. 18; Sp. p. 3859; Gaz. vol. 150; p. 644.
Button. J. Tams. No. 949,310; Feb. 15; Sp. p. 3201; Gaz. vol. 151; p. 564.
Button. S. J. Serwer. No. 958,328; May 17; Sp. p. 4228; Gaz. vol. 154; p. 690.
Button. N. Tweet. No. 975,808; Nov. 15; Sp. p. 3828; Gaz. vol. 160; p. 645.
Button and necktie-fastener, Collar-. C. E. Morrison. No. 950,052; Feb. 22; Sp. p. 4845; Gaz. vol. 151; p. 853.
Button-assembling machine. E. F. T. Lundquist. No. 950,772; Mar. 1; Sp. p. 672; Gaz. vol. 152; p. 107.
Button-attaching means. H. Rosenthal. No. 967,978; Aug. 23; Sp. p. 4534; Gaz. vol. 157; p. 796.
Button, Bachelor-. E. V. Winston. No. 972,309; Oct. 11; Sp. p. 1736; Gaz. vol. 159; p. 305.
Button-blanks, Apparatus for drilling and counterboring thread-holes and cutting thread-niches in. H. J. Skipp. No. 974,532; Nov. 1; Sp. p. 1050; Gaz. vol. 160; p. 157.
Button-blanks, Holding or clamping chuck for machines for boring and niching thread-holes in. H. J. Skipp. No. 979,714; Dec. 27; Sp. p. 4943; Gaz. vol. 161; p. 867.
Button-clasp. M. F. Burns. No. 953,120; Mar. 29; Sp. p. 5471; Gaz. vol. 152; p. 999.
Button, Collar-. F. M. and N. Yonkman. No. 956,662; May 3; Sp. p. 335; Gaz. vol. 154; p. 55.
Button, Collar-. N. Benincasa. No. 977,925; Dec. 6; Sp. p. 1095; Gaz. vol. 161; p. 174.
Button, Cuff-. J. A. Monroe. No. 949,832; Feb. 22; Sp. p. 4292; Gaz. vol. 151; p. 774.
Button, Cuff-. J. H. Simpson. No. 950,353; Feb. 22; Sp. p. 5442; Gaz. vol. 151; p. 954.
Button, Cuff-. R. N. Brothers. No. 957,864; May 17; Sp. p. 2892; Gaz. vol. 154; p. 524.
Button, Cuff-. J. Pejchar. No. 969,297; Sept. 6; Sp. p. 307; Gaz. vol. 158; p. 50.
Button, Cuff-. J. L. Herzog. No. 973,864; Oct. 25; Sp. p. 5139; Gaz. vol. 159; p. 893.
Button, Cuff-. H. R. Kohlweyer. No. 974,976; Nov. 8; Sp. p. 2057; Gaz. vol. 160; p. 335.
Button cutting and drilling machine. R. McCoy. No. 959,151; May 24; Sp. p. 5934; Gaz. vol. 154; p. 993.
Button-fastener. H. G. C. Hörning. No. 950,289; Feb. 22; Sp. p. 5326; Gaz. vol. 151; p. 934.
Button-fastening device. B. Joachim. No. 962,151; June 21; Sp. p. 4018; Gaz. vol. 155; p. 698.
Button-fastening means. J. L. Nelson. No. 947,557; Jan. 25; Sp. p. 5701; Gaz. vol. 150; p. 946.
Button-fastening, Sliding. A Heergeist. No. 964,862; July 19; Sp. p. 4072; Gaz. vol. 156; p. 679.
Button, Hinged-flap. L. A. Pichon and C. M. V. Allenou. No. 976,288; Nov. 22; Sp. p. 4882; Gaz. vol. 160; p. 834.
Button-hook hanger and toy, Combined. C. A. Evans. No. 978,720; Dec. 13; Sp. p. 2827; Gaz. vol. 161; p. 480.
Button, Ivory. W. G. Schimmel. No. 968,085; Aug. 23; Sp. p. 4783; Gaz. vol. 157; p. 832.
Button lock, Collar-. E. M. Pletcher and J. C. Gibbs. No. 977,837; Dec. 6; Sp. p. 906; Gaz. vol. 161; p. 143.
Button-loop for overalls. A. E. Plowman. No. 965,405; July 26; Sp. p. 5185; Gaz. vol. 156; p. 890.
Button-machine. J. W. Miller. No. 947,995; Feb. 1; Sp. p. 446; Gaz. vol. 151; p. 72.
Button-making machine. J. M. Sherwig and M. C. Petitt, No. 966,778; Aug. 9; Sp. p. 2053; Gaz. vol. 157; p. 341.
Button or garment-fastener, Cuff-. C. A. Berkey. No. 947,586; Jan. 25; Sp. p. 5765; Gaz. vol. 150; p. 958.
Button-remover. S. E. Burke. No. 974,118; Nov. 1; Sp. p. 22; Gaz. vol. 160; p. 7.
Button-ring. C. S. Comstock, Sr. No. 963,687; July 5; Sp. p. 1439; Gaz. vol. 156; p. 226.
Button, Rotary locking collar-. G. Ponarouse. No. 960,698; June 7; Sp. p. 936; Gaz. vol. 155; p. 155.
Button, Separable. W. L. Bate. No. 960,780; June 7; Sp. p. 1094; Gaz. vol. 155; p. 184.
Button, Separable. F. H. Mooney and F. S. Crane. No. 964,928; July 19; Sp. p. 4204; Gaz. vol. 156; p. 701.
Button-setting machine. C. Romm. No. 954,821; Apr. 12; Sp. p. 2465; Gaz. vol. 153; p. 421.
Button turning and finishing machine. S. P. MacCordy. No. 968,673; Aug. 30; Sp. p. 6052; Gaz. vol. 157; p. 1062.
Button, Whip-. J. McLaughlin and H. D. Beman. No. 977,670; Dec. 6; Sp. p. 566; Gaz. vol. 161; p. 86.
Buttons and button-fasteners and coupling mechanism, Feed-tube for. G. E. Parker. No. 977,124; Nov. 29; Sp. p. 6739; Gaz. vol. 160; p. 1147.
Buttons, Forming cuff-. J. L. Herzog. No. 979,163; Dec. 20; Sp. p. 3803; Gaz. vol. 161; p. 659.
Buttoner, Lasting-. P. F. W. C. Krippendorf. No. 967,939; Aug. 23; Sp. p. 4448; Gaz. vol. 157; p. 783.
Buttoning device. J. G. Robison. No. 976,098; Nov. 15; Sp. p. 4398; Gaz. vol. 160; p. 745.
Buttonhole-cutter. C. L. Rogers. No. 976,300; Nov. 22; Sp. p. 4919; Gaz. vol. 160; p. 838.
Buttonhole device. K. Gorman. No. 951,561; Mar. 8; Sp. p. 2235; Gaz. vol. 152; p. 388.
Buttonhole-guide. M. L. Stanton. No. 959,639; May 31; Sp. p. 6940; Gaz. vol. 154; p. 1182.
Buttonhole, Imitation. C. McNeil. No. 970,094; Sept. 13; Sp. p. 2050; Gaz. vol. 158; p. 348.
Buttonhole-machine. G. W. Nelson. No. 949,401; Feb. 15; Sp. p. 3419; Gaz. vol. 151; p. 597.
Buttonhole-protector and neckband-guard. R. B. Johnson. No. 947,104; Jan. 18; Sp. p. 4646; Gaz. vol. 150; p. 766.
Buttonholes in collars, cuffs, &c., Machine for making. M. Tillie. No. 947,605; Jan. 25; Sp. p. 5803; Gaz. vol. 150; p. 964.
Buzzer or bell, Door. W. R. Moore. No. 950,185; Feb. 22; Sp. p. 5112; Gaz. vol. 151; p. 897.
By-products, Means for recovering. P. M. Hamlin. No. 960,542; June 7; Sp. p. 626; Gaz. vol. 155; p. 101.
Cabinet. W. M. Shields. No. 952,146; Mar. 15; Sp. p. 3406; Gaz. vol. 152; p. 613.
Cabinet. M. M. and L. S. Munger. No. 952,573; Mar. 22; Sp. p. 4287; Gaz. vol. 152; p. 785.
Cabinet. H. C. Brinker. No. 953,457; Mar. 29; Sp. p. 6196; Gaz. vol. 152; p. 1111.
Cabinet, Adjustable revolving grocer's. J. R. O'Connell. No. 949,944; Feb. 22; Sp. p. 4560; Gaz. vol. 151; p. 814.
Cabinet and paper therefor. J. Welsh. No. 965,780; July 26; Sp. p. 6011; Gaz. vol. 156; p. 1021.
Cabinet, Automatic weighing-. A. J. Grissom. No. 976,069; Nov. 15; Sp. p. 4323; Gaz. vol. 160; p. 734.
Cabinet, Book-. R. M. Hooker. No. 966,549; Aug. 9; Sp. p. 1543; Gaz. vol. 157; p. 263.
Cabinet-closet. J. W. Softley. No. 953,401; Mar. 29; Sp. p. 6081; Gaz. vol. 152; p. 1093.
Cabinet, Clothes-. W. D. Baker. No. 969,025; Aug. 30; Sp. p. 6776; Gaz. vol. 157; p. 1181.
Cabinet, Combination egg-. W. H. Dear. No. 977,075; Nov. 29; Sp. p. 6629; Gaz. vol. 160; p. 1129.
Cabinet, Commodity-. J. H. Boye. No. 946,852; Jan. 18; Sp. p. 4128; Gaz. vol. 150; p. 683.
Cabinet, Commodity-. J. H. Boye. No. 972,499; Oct. 11; Sp. p. 2127; Gaz. vol. 159; p. 370.
Cabinet, Cotton-sampler's. L. T. Bow. No. 946,421; Jan. 11; Sp. p. 3189; Gaz. vol. 150; p. 513.
Cabinet, Credit-. R. N. Vick. No. 959,821; May 31; Sp. p. 7333; Gaz. vol. 154; p. 1242.
Cabinet, Credit-. A. J. Tice. No. 962,177; June 21; Sp. p. 4073; Gaz. vol. 155; p. 707.
Cabinet, Credit-account. W. K. Edgar. No. 977,942; Dec. 6; Sp. p. 1127; Gaz. vol. 161; p. 181.
Cabinet, Cuspidor-. F. B. Scaife. No. 946,870; Jan. 18; Sp. p. 4189; Gaz. vol. 150; p. 690.
Cabinet, Druggist's. M. P. Schwartz. No. 946,467; Jan. 11; Sp. p. 3294; Gaz. vol. 150; p. 529.
Cabinet, Extensible. J. Gaynor. No. 957,605; May 10; Sp. p. 2342; Gaz. vol. 154; p. 407.
Cabinet, Film-. G. J. Gilmore. No. 976,068; Nov. 15; Sp. p. 4320; Gaz. vol. 160; p. 733.
Cabinet-finishing tool. J. F. Weber. No. 975,590; Nov. 15; Sp. p. 3368; Gaz. vol. 160; p. 572.
Cabinet for needle-packages, &c. J. H. Boye. No. 946,873; Jan. 18; Sp. p. 4195; Gaz. vol. 150; p. 691.
Cabinet for sheet fabrics, Storing and dispensing. J. E. Hart. No. 954,801; Apr. 12; Sp. p. 2421; Gaz. vol. 153; p. 414.
Cabinet for stationery. F. W. Bliss. No. 957,859; May 10; Sp. p. 2871; Gaz. vol. 154; p. 492.
Cabinet for theatrical use, Make-up. A. E. Spinner. No. 960,596; June 7; Sp. p. 726; Gaz. vol. 155; p. 120.
Cabinet, Hanging. J. Gall. No. 957,324; May 10; Sp. p. 1792; Gaz. vol. 154; p. 313.
Cabinet, Information and directory. E. A. Ovenshire. No. 958,673; May 17; Sp. p. 4894; Gaz. vol. 154; p. 804.
Cabinet, Ironing-board. H. Mendenhall and R. G. Ping. No. 950,397; Feb. 22; Sp. p. 5525; Gaz. vol. 151; p. 968.
Cabinet, Kitchen-. F. Westerbeck. No. 946,927; Jan. 18; Sp. p. 4316; Gaz. vol. 150; p. 709.
Cabinet, Kitchen-. J. M. Bainer. No. 955,746; Apr. 19; Sp. p. 4444; Gaz. vol. 153; p. 767.
Cabinet, Kitchen-. J. E. Tate. No. 965,253; July 26; Sp. p. 4858; Gaz. vol. 156; p. 839.
Cabinet, Kitchen-. G. W. Druliner. No. 970,025; Sept. 13; Sp. p. 1912; Gaz. vol. 158; p. 325.
Cabinet, Kitchen-. J. S. McQuinn. No. 970,537; Sept. 20; Sp. p. 2971; Gaz. vol. 158; p. 518.

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Cabinet, Label and ticket. C. W. De Laney. No. 972,683; Oct. 11; Sp. p. 2548; Gaz. vol. 159; p. 434.
Cabinet, Lace-. J. H. Adkins. No. 958,062; May 17; Sp. p. 3535; Gaz. vol. 154; p. 596.
Cabinet, Lace-. T. H. Morgan and W. H. Austin. No. 963,795; July 12; Sp. p. 1713; Gaz. vol. 156; p. 285.
Cabinet locking device, Sectional-. A. T. Weiss. No. 960,465; June 7; Sp. p. 445; Gaz. vol. 155; p. 75.
Cabinet, Medicine-. C. Belfi. No. 955,312; Apr. 19; Sp. p. 3487; Gaz. vol. 153; p. 619.
Cabinet, Quick-lunch. W. E. Kellogg. No. 967,783; Aug. 16; Sp. p. 4129; Gaz. vol. 157; p. 707.
Cabinet, Receiving-. P. W. Hebebrand. No. 963,148; July 5; Sp. p. 316; Gaz. vol. 156; p. 44.
Cabinet, Ribbon-. H. E. Blevins and L. Brazille. No. 976,541; Nov. 22; Sp. p. 5447; Gaz. vol. 160; p. 920.
Cabinet, Roller-towel. A. Allen. No. 945,669; Jan. 4; Sp. p. 1415; Gaz. vol. 150; p. 221.
Cabinet, Rural-carrier's. C. A. Boyer. No. 945,014; Jan. 4; Sp. p. 7; Gaz. vol. 150; p. 4.
Cabinet, Sanitary cold-air food-. C. A. Buel, Jr. No. 959,709; May 31; Sp. p. 7093; Gaz. vol. 154; p. 1204.
Cabinet, Sectional. L. H. Walker and C. E. Wilson. No. 963,669; July 5; Sp. p. 1406; Gaz. vol. 156; p. 220.
Cabinet, Spool-. O. and C. Engel. No. 946,116; Jan. 11; Sp. p. 2434; Gaz. vol. 150; p. 405.
Cabinet, Stamp-. F. H. Chase. No. 978,560; Dec. 13; Sp. p. 2487; Gaz. vol. 161; p. 425.
Cabinet, Stamp holding and delivering. E. O. Webb, Jr. No. 976,018; Nov. 15; Sp. p. 4231; Gaz. vol. 160; p. 717.
Cabinet, Store-. J. W. Burrows. No. 964,388; July 12; Sp. p. 2931; Gaz. vol. 156; p. 484.
Cabinet-table. W. A. Snyder. No. 960,594; June 7; Sp. p. 724; Gaz. vol. 155; p. 119.
Cabinet, Thread-. J. A. Witt. No. 962,285; June 21; Sp. p. 4296; Gaz. vol. 155; p. 742.
Cabinets, &c., Flexible closure for. T. M. Jones and G. Seel. No. 970,832; Sept. 20; Sp. p. 3646; Gaz. vol. 158; p. 622.
Cabinets or the like, Margin-piece for. D. E. Hunter. No. 959,939; May 31; Sp. p. 7610; Gaz. vol. 154; p. 1284.
Cable angle-support. W. F. Curran. No. 979,932; Dec. 27; Sp. p. 5441; Gaz. vol. 161; p. 940.
Cable-button. J. Penglase. No. 965,739; July 26; Sp. p. 5920; Gaz. vol. 156; p. 1007.
Cable-carrier apparatus. J. A. Pitt. No. 951,335; Mar. 8; Sp. p. 1771; Gaz. vol. 152; p. 312.
Cable-carrier apparatus. G. A. Amsden. No. 958,207; May 17; Sp. p. 3826; Gaz. vol. 154; p. 646.
Cable-carrier apparatus. G. A. Amsden. No. 960,617; June 7; Sp. p. 781; Gaz. vol. 155; p. 127.
Cable-carrier apparatus. J. T. Cowley. No. 977,070; Nov. 29; Sp. p. 6612; Gaz. vol. 160; p. 1127.
Cable-carrier apparatus. G. A. Amsden. No. 978,826; Dec. 20; Sp. p. 3017; Gaz. vol. 161; p. 537.
Cable-carrier apparatus, Carrier for. C. R. Libby. No. 978,174; Dec. 13; Sp. p. 1652; Gaz. vol. 161; p. 290.
Cable-clamp. C. A. Butler. No. 950,275; Feb. 22; Sp. p. 5303; Gaz. vol. 151; p. 929.
Cable-clip. F. D. Ogden. No. 955,539; Apr. 19; Sp. p. 3968; Gaz. vol. 153; p. 696.
Cable-clip. T. J. Baugh. No. 957,300; May 10; Sp. p. 1744; Gaz. vol. 154; p. 305.
Cable conductor, Identifiable. A. B. Porter. No. 951,147; Mar. 8; Sp. p. 1387; Gaz. vol. 152; p. 252.
Cable connection. O. Tångring. No. 949,921; Feb. 22; Sp. p. 4516; Gaz. vol. 151; p. 806.
Cable construction. H. W. Fisher. No. 964,961; July 19; Sp. p. 4267; Gaz. vol. 156; p. 712.
Cable-grip. J. S. Skelly. No. 963,479; July 5; Sp. p. 1034; Gaz. vol. 156; p. 157.
Cable-hanger. C. L. Peirce, Jr. No. 953,394; Mar. 29; Sp. p. 6069; Gaz. vol. 152; p. 1090.
Cable-hanger. R. W. Hubbard. No. 958,951; Apr. 5; Sp. p. 526; Gaz. vol. 153; p. 95.
Cable-hanger. F. D. Ogden. No. 959,064; May 24; Sp. p. 5755; Gaz. vol. 154; p. 965.
Cable-hanger. C. E. Robinson. No. 967,564; Aug. 16; Sp. p. 3688; Gaz. vol. 157; p. 634.
Cable-hanger. E. G. Jeffries. No. 974,669; Nov. 1; Sp. p. 1337; Gaz. vol. 160; p. 208.
Cable-hanger. G. G. Larsen. No. 976,470; Nov. 22; Sp. p. 5283; Gaz. vol. 160; p. 897.
Cable-hauling engine. O. Potter. No. 955,283; Apr. 19; Sp. p. 3423; Gaz. vol. 153; p. 608.
Cable-lubricator. W. F. Slaughter. No. 945,622; Jan. 4; Sp. p. 1312; Gaz. vol. 150; p. 205.
Cable-operating drum. J. N. Anderson. No. 969,438; Sept. 6; Sp. p. 608; Gaz. vol. 158; p. 97.
Cable-reel. G. E. Lynch. No. 951,955; Mar. 15; Sp. p. 3041; Gaz. vol. 152; p. 550.
Cable-roller. S. Haverly. No. 964,019; July 12; Sp. p. 2195; Gaz. vol. 156; p. 360.
Cable-splicer. J. Urbanz. No. 959,407; May 24; Sp. p. 6440; Gaz. vol. 154; p. 1078.
Cable-support. T. A. Dissel. No. 950,148; Feb. 22; Sp. p. 5024; Gaz. vol. 151; p. 884.
Cable support, Aerial-. W. K. Krips and G. W. Wright. No. 960,344; June 7; Sp. p. 214; Gaz. vol. 155; p. 37.
Cable-support for terminal or junction boxes. H. H. Nicholson. No. 948,674; Feb. 8; Sp. p. 1890; Gaz. vol. 151; p. 326.
Cable-switching device. E. Newman. No. 979,687; Dec. 27; Sp. p. 4897; Gaz. vol. 161; p. 858.
Cable-terminal. F. G. Jones. No. 951,129; Mar. 8; Sp. p. 1353; Gaz. vol. 152; p. 246.
Cable-terminal, Sleeve. R. S. Donaldson and V. E. Furnas. No. 970,194; Sept. 13; Sp. p. 2241; Gaz. vol. 158; p. 381.
Cable-track support. W. T. Buck. No. 978,134; Dec. 13; Sp. p. 1562; Gaz. vol. 161; p. 277.
Cable-traction system for shiftable endless tracks. A. Anrep. No. 971,654; Oct. 4; Sp. p. 301; Gaz. vol. 159; p. 54.
Cable-traveler. J. E. Magner. No. 945,184; Jan. 4; Sp. p. 365; Gaz. vol. 150; p. 61.
Cables and the like, Winding-head for armoring. E. Witzenmann. No. 962,186; June 21; Sp. p. 4092; Gaz. vol. 155; p. 710.
Cables, Automatic clutch and releasing mechanism for. A. J. Dunton. No. 972,685; Oct. 11; Sp. p. 2551; Gaz. vol. 159; p. 435.
Cables, Branch-block for suspended. J. S. Stewart. No. 959,969; May 31; Sp. p. 7681; Gaz. vol. 154; p. 1295.
Cables, Machine for armoring. E. Witzenmann. No. 946,090; Jan. 4; Sp. p. 2386; Gaz. vol. 150; p. 397.
Cables, Support for stringing. L. J. Muehr. No. 979,989; Dec. 27; Sp. p. 5548; Gaz. vol. 161; p. 959.
Cableway. J. J. Fitzgerald. No. 969,356; Sept. 6; Sp. p. 434; Gaz. vol. 158; p. 70.
Cableway apparatus. A. E. Norris. No. 956,150; Apr. 26; Sp. p. 5333; Gaz. vol. 153; p. 937.
Cacao-beans, Machine for operating upon. G. E. B. Barnard. No. 953,504; Mar. 29; Sp. p. 6300; Gaz. vol. 152; p. 1129.
Cachou-holder. A. M. Ernsberger. No. 975,681; Nov. 15; Sp. p. 3577; Gaz. vol. 160; p. 602.
Caffein, Extracting. H. Trillich. No. 950,357; Feb. 22; Sp. p. 5447; Gaz. vol. 151; p. 955.
Cager, Automatic. B. C. Buxton. No. 956,037; Apr. 26; Sp. p. 5075; Gaz. vol. 153; p. 897.
Cages, Catching devices for. H. W. Solfrian. No. 956,214; Apr. 26; Sp. p. 5499; Gaz. vol. 153; p. 959.
Caisson construction. O. Merrill. No. 956,126; Apr. 26; Sp. p. 5287; Gaz. vol. 153; p. 929.
Cake-beater. G. B. Smith. No. 959,811; May 31; Sp. p. 7315; Gaz. vol. 154; p. 1239.
Cake-icing machine. R. V. Sucher. No. 954,147; Apr. 5; Sp. p. 945; Gaz. vol. 153; p. 162.
Cake machine, Wire-cut soft-. T. L. Green. No. 970,370; Sept. 13; Sp. p. 2611; Gaz. vol. 158; p. 441.
Cake, Machinery for the manufacture of feeding-. E. Evans. No. 969,049; Aug. 30; Sp. p. 6825; Gaz. vol. 157; p. 1189.
Cake-trimmer. F. Smetana. No. 946,159; Jan. 11; Sp. p. 2526; Gaz. vol. 150; p. 422.
Cake-trimmer. J. H. Hempen. No. 949,149; Feb. 15; Sp. p. 2884; Gaz. vol. 151; p. 510.
Calcining-kiln. W. J. Willis. No. 969,931; Sept. 13; Sp. p. 1697; Gaz. vol. 158; p. 292.
Calcium carbid, Making. H. L. Hartenstein. No. 966,542; Aug. 9; Sp. p. 1525; Gaz. vol. 157; p. 261.
Calcium carbid, Manufacture of. H. L. Hartenstein. No. 946,510; Jan. 11; Sp. p. 3396; Gaz. vol. 150; p. 544.
Calcium carbid, Treatment of. C. C. Wakefield. No. 975,306; Nov. 8; Sp. p. 2777; Gaz. vol. 160; p. 448.
Calcium-cyanamid powder, Granulating commercial. A. D'Ercole. No. 973,019; Oct. 18; Sp. p. 3327; Gaz. vol. 159; p. 578.
Calculating and listing machines, Automatic check-handling attachment for. A. S. McCaskey. No. 951,143; Mar. 8; Sp. p. 1378; Gaz. vol. 152; p. 250.
Calculating device. A. D. Burnett. No. 948,966; Feb. 8; Sp. p. 2487; Gaz. vol. 151; p. 423.
Calculating device. M. T. Joy. No. 966,752; Aug. 9; Sp. p. 2000; Gaz. vol. 157; p. 333.
Calculating device. N. R. Long. No. 979,678; Dec. 27; Sp. p. 4878; Gaz. vol. 161; p. 855.
Calculating fractions, Machine for. J. Vermehren. No. 953,160; Mar. 29; Sp. p. 5553; Gaz. vol. 152; p. 1013.
Calculating-machine. W. P. Quentell and F. Judge. No. 945,601; Jan. 4; Sp. p. 1270; Gaz. vol. 150; p. 198.
Calculating-machine. J. T. Howieson. No. 946,366; Jan. 11; Sp. p. 2970; Gaz. vol. 150; p. 493.
Calculating-machine. E. Jahnz. No. 946,367; Jan. 11; Sp. p. 3071; Gaz. vol. 150; p. 494.
Calculating-machine. R. Rein. No. 947,188; Jan. 18; Sp. p. 4808; Gaz. vol. 150; p. 792.
Calculating-machine. A. Burkhardt. No. 951,982; Mar. 15; Sp. p. 3098; Gaz. vol. 152; p. 558.
Calculating-machine. E. Jahnz. No. 952,257; Mar. 15; Sp. p. 3617; Gaz. vol. 152; p. 650.
Calculating-machine. F. Trinks. No. 953,242; Mar. 29; Sp. p. 5732; Gaz. vol. 152; p. 1039.
Calculating-machine. E. Jahnz. No. 953,622; Mar. 29; Sp. p. 6546; Gaz. vol. 152; p. 1169.
Calculating-machine. H. Goldman. No. 956,846; May 3; Sp. p. 755; Gaz. vol. 154; p. 119.
Calculating-machine. E. Jahnz. No. 957,062; May 3; Sp. p. 1212; Gaz. vol. 154; p. 192.

Alphabetical list of inventions—Continued.

Calculating-machine. D. E. Felt. No. 960,528; June 7; Sp. p. 578; Gaz. vol. 155; p. 96.
Calculating-machine. C. A. Mellicke. No. 961,631; June 14; Sp. p. 2875; Gaz. vol. 155; p. 497.
Calculating-machine. G. H. Sears. No. 961,806; June 21; Sp. p. 3228; Gaz. vol. 155; p. 579.
Calculating-machine. A. Hoch. No. 961,961; June 21; Sp. p. 3587; Gaz. vol. 155; p. 632.
Calculating-machine. J. A. Lutz. No. 961,977; June 21; Sp. p. 3613; Gaz. vol. 155; p. 636.
Calculating-machine. I. Moe. No. 964,296; July 12; Sp. p. 2756; Gaz. vol. 156; p. 455.
Calculating-machine. W. P. Quentell. No. 966,410; Aug. 2; Sp. p. 1169; Gaz. vol. 157; p. 189.
Calculating-machine. T. Bäuerle. No. 967,489; Aug. 16; Sp. p. 3541; Gaz. vol. 157; p. 608.
Calculating machine. F. Naumann. No. 967,821; Aug. 16; Sp. p. 4198; Gaz. vol. 157; p. 719.
Calculating-machine. B. R. Webster. No. 968,103; Aug. 23; Sp. p. 4824; Gaz. vol. 157; p. 838.
Calculating-machine. E. H. Palmer. No. 969,801; Sept. 13; Sp. p. 1411; Gaz. vol. 158; p. 247.
Calculating-machine. L. T. Fite. No. 972,072; Oct. 4; Sp. p. 1218; Gaz. vol. 159; p. 206.
Calculating-machine. J. Graber. No. 972,360; Oct. 11; Sp. p. 1833; Gaz. vol. 159; p. 322.
Calculating-machine. F. Trinks. No. 975,180; Nov. 8; Sp. p. 2502; Gaz. vol. 160; p. 405.
Calculating-machine. B. T. O'Brien and W. H. Browning. No. 975,633; Nov. 15; Sp. p. 3453; Gaz. vol. 160; p. 586.
Calculating-machine. B. T. O'Brien and W. H. Browning. No. 975,634; Nov. 15; Sp. p. 3458; Gaz. vol. 160; p. 587.
Calculating-machine. J. Suleder. No. 975,654; Nov. 15; Sp. p. 3512; Gaz. vol. 160; p. 593.
Calculating-machine. O. E. Cloud and A. W. Albers. No. 976,152; Nov. 22; Sp. p. 4532; Gaz. vol. 160; p. 785.
Calculating-machine. G. J. Barrett. No. 976,336; Nov. 22; Sp. p. 4978; Gaz. vol. 160; p. 848.
Calculating-machine. F. Trinks. No. 979,358; Dec. 20; Sp. p. 4187; Gaz. vol. 161; p. 723.
Calculating-machine displacing device. R. Bürk. No. 947,526; Jan. 25; Sp. p. 5638; Gaz. vol. 150; p. 937.
Calculating-machine, Recording. J. Mallman. No. 968,674; Aug. 30; Sp. p. 6057; Gaz. vol. 157; p. 1063.
Calculating-machine reversing mechanism. R. Rein. No. 957,095; May 3; Sp. p. 1280; Gaz. vol. 154; p. 203.
Calculating-machines and the like, Carrying mechanism for. D. W. Shiek. No. 948,188; Feb. 1; Sp. p. 832; Gaz. vol. 151; p. 137.
Calculating-machines, &c., Full-stroke mechanism for. W. W. Hopkins. No. 977,190; Nov. 29; Sp. p. 6892; Gaz. vol. 160; p. 1170.
Calculating-machines, Ribbon-feeding mechanism for. O. D. Johantgen. No. 953,090; Mar. 29; Sp. p. 5398; Gaz. vol. 152; p. 990.
Calculating or computing machine. H. R. Griffen. No. 979,391; Dec. 20; Sp. p. 4250; Gaz. vol. 161; p. 732.
Calculator. H. L. Lerner. No. 962,441; June 28; Sp. p. 4647; Gaz. vol. 155; p. 820.
Calculator. G. W. Goss. No. 970,038; Sept. 13; Sp. p. 1939; Gaz. vol. 158; p. 329.
Calculator, Recording-. J. Mallman. No. 970,250; Sept. 13; Sp. p. 2382; Gaz. vol. 158; p. 401.
Calendar. J. C. Vaughan. No. 948,263; Feb. 1; Sp. p. 984; Gaz. vol. 151; p. 162.
Calendar. W. G. Fairchild. No. 958,106; May 17; Sp. p. 3621; Gaz. vol. 154; p. 610.
Calendar. C. T. Ehmling. No. 967,893; Aug. 23; Sp. p. 4346; Gaz. vol. 157; p. 767.
Calendar. D. T. Davis. No. 974,754; Nov. 1; Sp. p. 1532; Gaz. vol. 160; p. 235.
Calendar indicator, Perpetual-. J. M. Crawford. No. 979,655; Dec. 27; Sp. p. 4835; Gaz. vol. 161; p. 848.
Calendar, Perpetual. E. W. Doolittle. No. 959,479; May 31; Sp. p. 6610; Gaz. vol. 154; p. 1128.
Calendar, Perpetual. C. E. Boillot. No. 968,319; Aug. 23; Sp. p. 5298; Gaz. vol. 157; p. 914.
Calendar, Perpetual. C. D. Kendig. No. 968,363; Aug. 23; Sp. p. 5383; Gaz. vol. 157; p. 929.
Calendar, Perpetual. S. L. Berry. No. 975,319; Nov. 8; Sp. p. 2803; Gaz. vol. 160; p. 452.
Calender-machine attachment. J. Stuart. No. 957,812; May 10; Sp. p. 2778; Gaz. vol. 154; p. 476.
Calender-roll. W. S. Granger. No. 975,686; Nov. 15; Sp. p. 3585; Gaz. vol. 160; p. 604.
Calender-rollers, Device for the automatic introduction of cloth between. O. Girndt. No. 946,429; Jan. 11; Sp. p. 3202; Gaz. vol. 150; p. 515.
Calender-rolls, Safety device for. W. Jameson. No. 962,572; June 28; Sp. p. 4945; Gaz. vol. 155; p. 866.
Calendering-roll. J. L. Perkins. (Reissue.) No. 13,127; July 5; Sp. p. 1570; Gaz. vol. 156; p. 242.
Calendering-roll. J. L. Perkins. (Reissue.) No. 13,128; July 5; Sp. p. 1572; Gaz. vol. 156; p. 243.
Caliper-gage. J. Dittrich and F. Devecis. No. 976,559; Nov. 22; Sp. p. 5485; Gaz. vol. 160; p. 927.
Calipers. H. Sauter. No. 966,773; Aug. 9; Sp. p. 2047; Gaz. vol. 157; p. 340.
Calipers. W. H. Harris. No. 970,817; Sept. 20; Sp. p. 3615; Gaz. vol. 158; p. 617.
Calipers and poising-tool, Combination. E. Benson. No. 959,699; May 31; Sp. p. 7073; Gaz. vol. 154; p. 1201.
Calipers, Micrometer-. Z. R. Tucker. No. 959,974; May 31; Sp. p. 7692; Gaz. vol. 154; p. 1296.
Calipers, Micrometer attachment for machinists'. J. H. Pember. No. 962,583; June 28; Sp. p. 4965; Gaz. vol. 155; p. 869.
Calipering attachment, Automatic. H. B. Nichols. No. 980,164; Dec. 27; Sp. p. 5957; Gaz. vol. 161; p. 1017.
Call and alarm system, Electric. G. S. Loveridge. No. 977,809; Dec. 6; Sp. p. 848; Gaz. vol. 161; p. 133.
Call-distributing switch. P. V. Christensen. No. 959,462; May 31; Sp. p. 6572; Gaz. vol. 154; p. 1122.
Calorimeter. S. W. Parr. No. 947,418; Jan. 25; Sp. p. 5377; Gaz. vol. 150; p. 901.
Calorimeter. A. H. Walrath. No. 951,709; Mar. 8; Sp. p. 2508; Gaz. vol. 152; p. 436.
Calorimeter-bombs, Charging device for. C. J. Emerson. No. 959,488; May 31; Sp. p. 6638; Gaz. vol. 154; p. 1131.
Calorimeter-bombs, Holder for. C. J. Emerson. No. 963,426; July 5; Sp. p. 931; Gaz. vol. 156; p. 139.
Cam. G. T. Watkins. No. 975,589; Nov. 15; Sp. p. 3367; Gaz. vol. 160; p. 571.
Cam and lever. W. Rose. No. 978,783; Dec. 13; Sp. p. 2948; Gaz. vol. 161; p. 498.
Cam-and-tappet mechanism. E. A. Wall. No. 947,874; Feb. 1; Sp. p. 216; Gaz. vol. 151; p. 34.
Cam mechanism. H. Wyman. No. 957,724; May 10; Sp. p. 2591; Gaz. vol. 154; p. 448.
Cam mechanism. E. Traub. No. 977,488; Dec. 6; Sp. p. 136; Gaz. vol. 161; p. 23.
Camera. E. L. Hall. No. 965,516; July 26; Sp. p. 5445; Gaz. vol. 156; p. 929.
Camera. O. W. Plant. No. 974,990; Nov. 8; Sp. p. 2083; Gaz. vol. 160; p. 340.
Camera. J. A. Robertson. No. 975,461; Nov. 15; Sp. p. 3084; Gaz. vol. 160; p. 527.
Camera. I. O. Perring. No. 976,208; Nov. 22; Sp. p. 4666; Gaz. vol. 160; p. 804.
Camera attachment. G. A. Roberds. No. 948,868; Feb. 8; Sp. p. 2294; Gaz. vol. 151; p. 390.
Camera attachment. H. G. Bauman. No. 961,425; June 14; Sp. p. 2426; Gaz. vol. 155; p. 428.
Camera attachment. C. W. Kaufmann. No. 962,844; June 28; Sp. p. 5489; Gaz. vol. 155; p. 960.
Camera film attachment. A. M. Vale. No. 968,716; Aug. 30; Sp. p. 6162; Gaz. vol. 157; p. 1076.
Camera-finder. G. F. Hammond. No. 970,443; Sept. 13; Sp. p. 2757; Gaz. vol. 158; p. 464.
Camera flash-light attachment. S. Roesner. No. 961,021; June 7; Sp. p. 1572; Gaz. vol. 155; p. 263.
Camera-front, Sliding. A. A. Johnson. No. 978,027; Dec. 6; Sp. p. 1301; Gaz. vol. 161; p. 208.
Camera, Moving-picture. N. C. Travis. No. 978,077; Dec. 6; Sp. p. 1407; Gaz. vol. 161; p. 227.
Camera-multiplier. G. J. Schaubert. No. 967,569; Aug. 16; Sp. p. 3698; Gaz. vol. 157; p. 636.
Camera, Photographic. J. E. Thornton. No. 948,939; Feb. 8; Sp. p. 2428; Gaz. vol. 151; p. 414.
Camera, Photographic. J. Gaut. No. 948,942; Feb. 8; Sp. p. 2435; Gaz. vol. 151; p. 414.
Camera, Photographic. R. Goldstein. No. 973,272; Oct. 18; Sp. p. 3888; Gaz. vol. 159; p. 665.
Camera, Photographic pocket-. A. Boreux. No. 966,886; Aug. 9; Sp. p. 2291; Gaz. vol. 157; p. 375.
Camera-shutter and means for operating the same. L. C. Knee. No. 965,389; July 26; Sp. p. 5157; Gaz. vol. 156; p. 884.
Camera-shutter-operating attachment. J. Becker. No. 975,602; Nov. 15; Sp. p. 3388; Gaz. vol. 160; p. 576.
Camera-shutter-operating mechanism. J. Becker. No. 975,497; Nov. 15; Sp. p. 3160; Gaz. vol. 160; p. 539.
Camera-shutter-operating mechanism. J. Becker. No. 975,601; Nov. 15; Sp. p. 3386; Gaz. vol. 160; p. 575.
Camera shutter, Photographic-. F. C. Schmid and C. F. Dewey. No. 975,464; Nov. 15; Sp. p. 3090; Gaz. vol. 160; p. 528.
Camera timing attachment. J. H. Dolby. No. 977,440; Dec. 6; Sp. p. 23; Gaz. vol. 161; p. 7.
Cameras, Automatic shutter-controlling mechanism for. S. Roesner. No. 964,318; July 12; Sp. p. 2795; Gaz. vol. 156; p. 462.
Cameras, Flash-light attachment for photographic. W. H. Wallace. No. 972,419; Oct. 11; Sp. p. 1959; Gaz. vol. 159; p. 344.
Cameras, Multiplying-back for. J. Goddard. No. 953,005; Mar. 22; Sp. p. 5198; Gaz. vol. 152; p. 932.
Cameras, Panorama attachment for. F. F. Groff. No. 946,800; Jan. 18; Sp. p. 4013; Gaz. vol. 150; p. 665.
Cameras, Positioning and focusing indicator for enlarging and reducing. A. Fruwirth. No. 971,367; Sept. 27; Sp. p. 4720; Gaz. vol. 158; p. 824.
Cameras, Winding-key for. C. Bornmann. No. 970,603; Sept. 20; Sp. p. 3109; Gaz. vol. 158; p. 541.
Camping apparatus. G. E. Cronk. No. 955,140; Apr. 19; Sp. p. 3118; Gaz. vol. 153; p. 559.

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Can: *See* Ash-can; Dispensing-can; Display-can; Drying-can; Garbage-can; Key-opening can; Milk-can; Milk and cream can; Oil-can; Oil-distributing can; Safety-can; Sheet-metal can; Shipping-can; Sifter-top can.

Can. G. M. Clapp. No. 953,595; Mar. 29; Sp. p. 6492; Gaz. vol. 152; p. 1160.

Can. J. S. Stevens. No. 964,458; July 12; Sp. p. 3073; Gaz. vol. 156; p. 505.

Can and cooker, Combined. F. P. White. No. 972,304; Oct. 11; Sp. p. 1726; Gaz. vol. 159; p. 303.

Can-antibuckling press. J. B. Frost. No. 957,323; May 10; Sp. p. 1790; Gaz. vol. 154; p. 313.

Can-bodies, &c., Machine for slitting or trimming blanks for. C. W. Graham. No. 954,622; Apr. 12; Sp. p. 1975; Gaz. vol. 153; p. 350.

Can-bodies, Making. C. W. Graham. No. 970,622; Sept. 20; Sp. p. 3173; Gaz. vol. 158; p. 548.

Can-body-coating machine. C. D. Woods. No. 947,537; Jan. 25; Sp. p. 5662; Gaz. vol. 150; p. 941.

Can-body-flanging machine. E. V. Swangren. No. 948,353; Feb. 8; Sp. p. 1194; Gaz. vol. 151; p. 218.

Can-body-flanging machine, Automatic. F. Rudolphi. No. 948,346; Feb. 8; Sp. p. 1179; Gaz. vol. 151; p. 216.

Can-body-forming machine. J. E. Abrams. No. 949,722; Feb. 15; Sp. p. 4026; Gaz. vol. 151; p. 701.

Can-body machine. F. Rudolphi. No. 956,180; Apr. 26; Sp. p. 5414; Gaz. vol. 153; p. 949.

Can-body-making machine. F. Rudolphi. No. 956,179; Apr. 26; Sp. p. 5403; Gaz. vol. 153; p. 948.

Can-body-making machine. L. C. Sharp. No. 967,068; Aug. 9; Sp. p. 2656; Gaz. vol. 157; p. 437.

Can-body-making machine. O. J. Johnson. No. 971,278; Sept. 27; Sp. p. 4549; Gaz. vol. 158; p. 795.

Can-body-making machine. E. V. Swangren. No. 975,655; Nov. 15; Sp. p. 3514; Gaz. vol. 160; p. 594.

Can-cap dropper. E. M. Cobb. No. 962,316; June 21; Sp. p. 4360; Gaz. vol. 155; p. 753.

Can-cap hemmer. V. Odquist and H. H. Lyche. No. 970,539; Sept. 20; Sp. p. 2975; Gaz. vol. 158; p. 519.

Can-cap-placing machine. W. G. Palmer. No. 947,685; Jan. 25; Sp. p. 5954; Gaz. vol. 150; p. 991.

Can-cap-tipping machine. C. H. Ayars. No. 948,963; Feb. 8; Sp. p. 2479; Gaz. vol. 151; p. 422.

Can-caps, Means for applying solder rings to. W. J. Phelps. No. 959,163; May 24; Sp. p. 5962; Gaz. vol. 154; p. 998.

Can-capping machine. F. Seitz. No. 958,549; May 17; Sp. p. 4657; Gaz. vol. 154; p. 765.

Can-capping machine. L. J. Miller. No. 962,038; June 21; Sp. p. 3742; Gaz. vol. 155; p. 656.

Can-carrier. F. L. Taulman. No. 956,835; May 3; Sp. p. 729; Gaz. vol. 154; p. 115.

Can-carrier. C. L. Holloway. No. 962,025; June 21; Sp. p. 3713; Gaz. vol. 155; p. 652.

Can centering and truing device. L. C. Krummel and J. C. Taliaferro. No. 954,976; Apr. 12; Sp. p. 2802; Gaz. vol. 153; p. 475.

Can-cleaning apparatus. C. H. Hood. No. 949,121; Feb. 15; Sp. p. 2829; Gaz. vol. 151; p. 500.

Can-cleaning machine. C. W. Graham. No. 969,949; Sept. 13; Sp. p. 1736; Gaz. vol. 158; p. 298.

Can-closure. G. A. Cibulka. No. 949,974; Feb. 22; Sp. p. 4622; Gaz. vol. 151; p. 825.

Can-closure. O. Becher. No. 975,317; Nov. 8; Sp. p. 2798; Gaz. vol. 160; p. 452.

Can closure, Milk-. A. R. Ruppenthal. No. 958,012; May 17; Sp. p. 3313; Gaz. vol. 154; p. 577.

Can container and perforator, Combined. H. A. Javins. No. 979,072; Dec. 20; Sp. p. 3563; Gaz. vol. 161; p. 623.

Can-cover. L. D. Lewis. No. 963,598; July 5; Sp. p. 1282; Gaz. vol. 156; p. 196.

Can-cover fastener. W. J. Tetreault. No. 946,586; Jan. 18; Sp. p. 3523; Gaz. vol. 150; p. 593.

Can-cover holder. H. M. F. Leighty. No. 951,916; Mar. 15; Sp. p. 2977; Gaz. vol. 152; p. 538.

Can cover, Ice-cream-. M. Mansor. No. 971,290; Sept. 27; Sp. p. 4567; Gaz. vol. 158; p. 799.

Can-cover, Locking. B. Vigdal. No. 977,491; Dec. 6; Sp. p. 141; Gaz. vol. 161; p. 25.

Can-cover-locking device, Milk-. H. M. F. Leighty. No. 951,423; Mar. 8; Sp. p. 1959; Gaz. vol. 152; p. 341.

Can-cover-locking device, Milk-. M. B. Burley. No. 973,624; Oct. 25; Sp. p. 4644; Gaz. vol. 159; p. 808.

Can-crushing mechanism. M. B. Pickett. No. 969,720; Sept. 6; Sp. p. 1202; Gaz. vol. 158; p. 194.

Can end. D. P. Robinson. No. 960,109; May 31; Sp. p. 7990; Gaz. vol. 154; p. 1342.

Can-end-flanging and head-seaming apparatus. A. Johnson. No. 956,709; May 3; Sp. p. 451; Gaz. vol. 154; p. 72.

Can feeding and delivering mechanism. J. W. White. No. 955,731; Apr. 19; Sp. p. 4414; Gaz. vol. 153; p. 762.

Can-feeding apparatus. E. M. Burr. No. 956,036; Apr. 26; Sp. p. 5073; Gaz. vol. 153; p. 897.

Can-feeding device. W. L. Wight. No. 945,658; Jan. 4; Sp. p. 1398; Gaz. vol. 150; p. 218.

Can-filler. W. F. Thomas. No. 956,652; May 3; Sp. p. 313; Gaz. vol. 154; p. 51.

Can-filling apparatus. C. Robertson. No. 979,096; Dec. 20; Sp. p. 3619; Gaz. vol. 161; p. 632.

Can-filling mechanism. R. Schilling. No. 952,145; Mar. 15; Sp. p. 3404; Gaz. vol. 152; p. 613.

Can-filling machine. W. F. Hebrank. No. 961,408; June 14; Sp. p. 2388; Gaz. vol. 155; p. 423.

Can-flange swaging and soldering machine. G. W. Weber. No. 977,689; Dec. 6; Sp. p. 608; Gaz. vol. 161; p. 93.

Can for maple-syrup and the like. J. Vincent. No. 965,256; July 26; Sp. p. 4862; Gaz. vol. 156; p. 840.

Can-forming apparatus. C. W. Graham. No. 958,741; May 24; Sp. p. 5048; Gaz. vol. 154; p. 853.

Can handle, Oil-. J. Boothby and C. A. Brown. No. 956,883; May 3; Sp. p. 840; Gaz. vol. 154; p. 133.

Can-heading machine. E. J. Morris. No. 949,682; Feb. 15; Sp. p. 3947; Gaz. vol. 151; p. 688.

Can-heading machine. J. Eldridge. No. 950,017; Feb. 22; Sp. p. 4780; Gaz. vol. 151; p. 841.

Can-heading machine. F. Wegner. No. 954,151; Apr. 5; Sp. p. 973; Gaz. vol. 153; p. 164.

Can-heading machine. E. Norton. No. 968,493; Aug. 23; Sp. p. 5647; Gaz. vol. 157; p. 973.

Can-heading machine. C. W. Graham. No. 969,470; Sept. 6; Sp. p. 660; Gaz. vol. 158; p. 106.

Can-heading machine, Duplex. B. Adriance and A. Calleson. No. 947,271; Jan. 25; Sp. p. 5016; Gaz. vol. 150; p. 850.

Can-lacquering-machine feeder. A. Y. Seely. No. 967,449; Aug. 16; Sp. p. 3450; Gaz. vol. 157; p. 594.

Can lid, Ice-. O. W. Michelfelder. No. 946,945; Jan. 18; Sp. p. 4346; Gaz. vol. 150; p. 714.

Can-lids, Means for loosening. O. H. Thompson. No. 979,226; Dec. 20; Sp. p. 3944; Gaz. vol. 161; p. 681.

Can lock, Milk-. D. J. Thayer. No. 962,801; June 28; Sp. p. 5414; Gaz. vol. 155; p. 945.

Can lock, Milk-. J. Lokody. No. 965,590; July 26; Sp. p. 5618; Gaz. vol. 156; p. 956.

Can lock, Milk-. J. F. Leppzer and O. J. Lytle. No. 966,339; Aug. 2; Sp. p. 1022; Gaz. vol. 157; p. 165.

Can lock, Milk-. F. Weisnek. No. 967,694; Aug. 16; Sp. p. 3940; Gaz. vol. 157; p. 676.

Can lock, Milk-. L. F. Scott. No. 967,844; Aug. 16; Sp. p. 4250; Gaz. vol. 157; p. 727.

Can lock, Milk-. J. F. Billy. No. 971,349; Sept. 27; Sp. p. 4684; Gaz. vol. 158; p. 819.

Can lock, Milk-. L. Hofer. No. 972,000; Oct. 4; Sp. p. 1083; Gaz. vol. 159; p. 182.

Can lock, Milk-. H. H. Hambry and G. McCans. No. 972,853; Oct. 18; Sp. p. 2921; Gaz. vol. 159; p. 519.

Can lock, Milk-. F. Fülöp and S. Nagy. No. 973,271; Oct. 18; Sp. p. 3886; Gaz. vol. 159; p. 665.

Can lock, Milk-. T. A. Mather. No. 975,882; Nov. 15; Sp. p. 3976; Gaz. vol. 160; p. 670.

Can-making apparatus. C. W. Graham. No. 970,704; Sept. 20; Sp. p. 3354; Gaz. vol. 158; p. 576.

Can-making machinery. H. C. Black. No. 950,742; Mar. 1; Sp. p. 606; Gaz. vol. 152; p. 96.

Can-opener. J. P. Keeley. No. 953,843; Apr. 5; Sp. p. 324; Gaz. vol. 153; p. 57.

Can-opener. J. L. Shrode. No. 954,054; Apr. 5; Sp. p. 741; Gaz. vol. 153; p. 130.

Can-opener. J. M. Allen. No. 960,060; May 31; Sp. p. 7905; Gaz. vol. 154; p. 1327.

Can-opener. R. Franken. No. 961,946; June 21; Sp. p. 3548; Gaz. vol. 155; p. 626.

Can-opener. H. Ferguson. No. 963,283; July 5; Sp. p. 655; Gaz. vol. 156; p. 91.

Can-opener. C. Abbott. No. 964,361; July 12; Sp. p. 2878; Gaz. vol. 156; p. 475.

Can-opener. A. A. West. No. 964,461; July 12; Sp. p. 3079; Gaz. vol. 156; p. 506.

Can-opener. N. Simmons. No. 966,711; Aug. 9; Sp. p. 1860; Gaz. vol. 157; p. 318.

Can-opener. E. W. Bishop. No. 970,170; Sept. 13; Sp. p. 2195; Gaz. vol. 158; p. 373.

Can-opener. H. G. Hill. No. 970,331; Sept. 13; Sp. p. 2538; Gaz. vol. 158; p. 428.

Can-opener. G. F. Hall. No. 974,484; Nov. 1; Sp. p. 945; Gaz. vol. 160; p. 140.

Can opening and closing implement. A. E. Zesse. No. 952,170; Mar. 15; Sp. p. 3447; Gaz. vol. 152; p. 620.

Can-packing apparatus. F. J. Heybach. No. 945,533; Jan. 4; Sp. p. 1135; Gaz. vol. 150; p. 175.

Can receptacle, Garbage-. T. P. Bolger. No. 962,887; June 28; Sp. p. 5581; Gaz. vol. 155; p. 976.

Can receptacle, Sanitary garbage-. R. S. Darling. No. 971,731; Oct. 4; Sp. p. 474; Gaz. vol. 159; p. 82.

Can-righting device. C. F. Colbert. No. 949,647; Feb. 15; Sp. p. 3889; Gaz. vol. 151; p. 677.

Can-roller, Mechanical. M. D. Blakeslee. No. 945,685; Jan. 4; Sp. p. 1448; Gaz. vol. 150; p. 226.

Can-seams, Making. C. W. Graham. No. 953,381; Mar. 29; Sp. p. 6039; Gaz. vol. 152; p. 1085.

Can-shearing machine. C. Cosby. No. 972,828; Oct. 18; Sp. p. 2858; Gaz. vol. 159; p. 510.

Can shield, Milk-. W. H. Schmeling. No. 978,337; Dec. 13; Sp. p. 1996; Gaz. vol. 161; p. 348.

Can-shipping box. H. Mayo. No. 969,386; Sept. 6; Sp. p. 505; Gaz. vol. 158; p. 80.

Can sifter-top. E. Hull. No. 950,819; Mar. 1; Sp. p. 771; Gaz. vol. 152; p. 123.

Alphabetical list of inventions—Continued.

Can spout attachment. A. L. Whitney. No. 965,782; July 26; Sp. p. 6017; Gaz. vol. 156; p. 1022.
Can spout, Oil-. A. P. Hurt. No. 947,991; Feb. 1; Sp. p. 440; Gaz. vol. 151; p. 71.
Can spout, Powder-. D. Locandro. No. 971,055; Sept. 27; Sp. p. 4083; Gaz. vol. 158; p. 723.
Can spout, Powder-. J. R. Hughes. No. 977,095; Nov. 29; Sp. p. 6669; Gaz. vol. 160; p. 1136.
Can stopper attachment. W. S. Van Sant. No. 945,643; Jan. 4; Sp. p. 1363; Gaz. vol. 150; p. 212.
Can-stripper. J. E. Baster. No. 954,159; Apr. 5; Sp. p. 984; Gaz. vol. 153; p. 166.
Can-syruping machine. A. J. Keast. No. 962,026; June 21; Sp. p. 3714; Gaz. vol. 155; p. 652.
Can-testing machine. C. B. and C. D. McDonald. No. 945,573; Jan. 4; Sp. p. 1223; Gaz. vol. 150; p. 189.
Can-testing machine. C. W. Graham No. 970,621; Sept. 20; Sp. p. 3168; Gaz. vol. 158; p. 547.
Can-top. J. R. Harbeck. No. 960,637; June 7; Sp. p. 817; Gaz. vol. 155; p. 134.
Can-top fastener and opener. C. Huber. No. 978,585; Dec. 13; Sp. p. 2547; Gaz. vol. 161; p. 434.
Can-vent protector. F. G. Dickerson. No. 965,799; July 26; Sp. p. 6059; Gaz. vol. 156; p. 1027.
Can-washing machine. H. Goodhue. No. 963,219; July 5; Sp. p. 494; Gaz. vol. 156; p. 68.
Cans, Aerating-cover for milk-. S. Shapiro. No. 975,725; Nov. 15; Sp. p. 3653; Gaz. vol. 160; p. 616.
Cans and like receptacles, Closure for. C. Lee. No. 975,964; Nov. 15; Sp. p. 4133; Gaz. vol. 160; p. 699.
Cans and like receptacles, Machine for closing. C. T. Lack. No. 969,166; Sept. 6; Sp. p. 33; Gaz. vol. 158; p. 8.
Cans and the like, Aerating-cover for milk-. S. Shapiro. No. 951,152; Mar. 8; Sp. p. 1398; Gaz. vol. 152; p. 254.
Cans, Dredge for powder-. E. H. W. Ullrich. No. 961,991; June 21; Sp. p. 3641; Gaz. vol. 155; p. 640.
Cans, Hermetically-sealing stopper for. L. Sturgis. No. 952,717; Mar. 22; Sp. p. 4612; Gaz. vol. 152; p. 836.
Cans or boxes, Apparatus for the manufacture of sheet-metal. A. W. Stoker. No. 949,406; Feb. 15; Sp. p. 3431; Gaz. vol. 151; p. 599.
Cans or the like, Closing device for. H. Hintermann. No. 959,012; May 24; Sp. p. 5638; Gaz. vol. 154; p. 947.
Cans, Spring attachment for oil-. W. B. King. No. 962,902; June 28; Sp. p. 5601; Gaz. vol. 155; p. 980.
Canned goods, Apparatus for processing. A. N. Peters. No. 976,286; Nov. 22; Sp. p. 4879; Gaz. vol. 160; p. 833.
Canned goods, Machine for shaking. F. H. and F. R. Flounders. No. 965,802; July 26; Sp. p. 6066; Gaz. vol. 156; p. 1028.
Canning apparatus. A. McKnight. No. 949,710; Feb. 15; Sp. p. 4007; Gaz. vol. 151; p. 697.
Canning apparatus. J. S. Hildebrand. No. 959,861; May 31; Sp. p. 7428; Gaz. vol. 154; p. 1257.
Canning device. N. Barrett. No. 972,800; Oct. 18; Sp. p. 2797; Gaz. vol. 159; p. 500.
Canning green corn. A. J. Judge. No. 970,058; Sept. 13; Sp. p. 1982; Gaz. vol. 158; p. 336.
Canning-machine. C. L. Carter. No. 953,516; Mar. 29; Sp. p. 6325; Gaz. vol. 152; p. 1134.
Canning-machine marking attachment. G. J. Lange. No. 970,839; Sept. 20; Sp. p. 3655; Gaz. vol. 158; p. 624.
Canceling-machine. C. E. Johnson. No. 969,061; Aug. 30; Sp. p. 6854; Gaz. vol. 157; p. 1193.
Candelabrum. C. Yoos. No. 957,134; May 3; Sp. p. 1348; Gaz. vol. 154; p. 216.
Candelabrum. O. H. Van Guelpen. No. 958,568; May 17; Sp. p. 4692; Gaz. vol. 154; p. 771.
Candelabrum. G. J. Bernau. No. 964,841; July 19; Sp. p. 4029; Gaz. vol. 156; p. 671.
Candies with sugar, Apparatus for coating. C. H. Wild and C. Mahan. No. 945,355; Jan. 4; Sp. p. 762; Gaz. vol. 150; p. 117.
Candy-casting machine. J. Werner. No. 959,665; May 31; Sp. p. 7008; Gaz. vol. 154; p. 1190.
Candy-cooler. G. F. Dickson. No. 955,771; Apr. 19; Sp. p. 4489; Gaz. vol. 153; p. 775.
Candy-cutting machine. E. R. Knott. No. 949,434; Feb. 15; Sp. p. 3484; Gaz. vol. 151; p. 609.
Candy-cutting machine. J. H. Bennett. No. 958,717; May 24; Sp. p. 4986; Gaz. vol. 154; p. 844.
Candy-machine. G. F. Dickson. No. 948,969; Feb. 8; Sp. p. 2494; Gaz. vol. 151; p. 424.
Candy-machine. F. H. Woolf. No. 971,097; Sept. 27; Sp. p. 4173; Gaz. vol. 158; p. 736.
Candy-making apparatus. R. W. H. Crabb. No. 972,511; Oct. 11; Sp. p. 2163; Gaz. vol. 159; p. 375.
Candy-molding machine. J. Werner. No. 959,664; May 31; Sp. p. 6991; Gaz. vol. 154; p. 1190.
Candy pipes and other articles, Machine for molding. G. H. Fox. No. 978,726; Dec. 13; Sp. p. 2836; Gaz. vol. 161; p. 481.
Candy-pulling machine. H. S. Brewington. No. 977,161; Nov. 29; Sp. p. 6825; Gaz. vol. 160; p. 1159.
Candy-pulling machine. H. S. Brewington. No. 979,125; Dec. 20; Sp. p. 3720; Gaz. vol. 161; p. 645.
Candy scouring and cleaning machine. W. F. Walker. No. 958,338; May 17; Sp. p. 4247; Gaz. vol. 154; p. 693.
Candy-stick-cooling apparatus. P. R. Camp and T. J. Eubanks. No. 963,513; July 5; Sp. p. 1099; Gaz. vol. 156; p. 168.
Candy-wrapping machine. W. J. Pendleberry. No. 964,689; July 19; Sp. p. 3718; Gaz. vol. 156; p. 618.
Candle-holder. H. Berg. No. 969,767; Sept. 13; Sp. p. 1333; Gaz. vol. 158; p. 236.
Candle-holder and candlestick. G. C. Nott. No. 952,935; Mar. 22; Sp. p. 5061; Gaz. vol. 152; p. 909.
Candle-light. J. P. Eustis. No. 966,185; Aug. 2; Sp. p. 739; Gaz. vol. 157; p. 117.
Candle-protector. M. H. Sterling. No. 977,567; Dec. 6; Sp. p. 348; Gaz. vol. 161; p. 51.
Candle-shade holder. G. L. Lang. No. 945,963; Jan. 11; Sp. p. 2136; Gaz. vol. 150; p. 355.
Candlestick. F. J. Primavesi. No. 955,992; Apr. 26; Sp. p. 4987; Gaz. vol. 153; p. 882.
Candlestick, Folding. G. Winchester. No. 961,190; June 14; Sp. p. 1916; Gaz vol. 155; p. 348.
Candlestick, Miner's. J. J. Cluin. No. 951,595; Mar. 8; Sp. p. 2295; Gaz. vol. 152; p. 398.
Candlestick, Miner's. A. B. Sharp. No. 952,844; Mar. 22; Sp. p. 4887; Gaz. vol. 152; p. 879.
Candlestick, Miner's. D. B. Beaton. No. 965,500; July 26; Sp. p. 5395; Gaz. vol. 156; p. 923.
Candlestick, Miner's. A. Viera. No. 974,316; Nov. 1; Sp. p. 542; Gaz. vol. 160; p. 80.
Candlestick, Miner's. G. Freeland. No. 977,381; Nov. 29; Sp. p. 7278; Gaz. vol. 160; p. 1236.
Cane. R. O. Bolles. No. 953,586; Mar. 29; Sp. p. 6476; Gaz. vol. 152; p. 1157.
Cane and camp-stool, Combined. M. Killian. No. 952,335; Mar. 15; Sp. p. 3784; Gaz. vol. 152; p. 676.
Cane and musical instrument, Combined. D. Pinelli. No. 956,504; Apr. 26; Sp. p. 6114; Gaz. vol. 153; p. 1058.
Cane and similar substances, Apparatus for treating sugar-. G. D. Burton. No. 976,779; Nov. 22; Sp. p. 5936; Gaz. vol. 160; p. 1002.
Cane and stool, Convertible. J. O. Kapp. No. 980,159; Dec. 27 · Sp. p. 5949; Gaz. vol. 161; p. 1015.
Cane, Apparatus for treating sugar-. A. and S. Wynberg. No. 958,790; May 24; Sp. p. 5170; Gaz. vol. 154; p. 870.
Cane bundler, Sugar-. H. G. Ginaca. No. 953,329; Mar. 29; Sp. p. 5909; Gaz. vol. 152; p. 1067.
Cane-crusher. A. L. Marshall. No. 978,767; Dec. 13; Sp. p. 2919; Gaz. vol. 161; p. 494.
Cane-cutting machine. J. R. Brown. No. 953,592; Mar. 29; Sp. p. 6487; Gaz. vol. 152; p. 1159.
Cane loader, Sugar-. T. J. Howard. No. 973,433; Oct. 18; Sp. p. 4231; Gaz. vol. 159; p. 720.
Cane-loading machine. W. F. Johnstone. No. 969,164; Sept. 6; Sp. p. 26; Gaz. vol. 158; p. 7.
Cane mills, Hydraulic cap mechanism for sugar-. J. I. Boyer. No. 976,144; Nov. 22; Sp. p. 4515; Gaz. vol. 160; p. 783.
Cane-rifle. H. Tarvardian. No. 969,672; Sept. 6; Sp. p. 1100; Gaz. vol. 158; p. 177.
Cane-sling. L. D. Gregg. No. 948,577; Feb. 8; Sp. p. 1682; Gaz. vol. 151; p. 293.
Cane-stripper. E. A. Jones. No. 946,604; Jan. 18; Sp. p. 3562; Gaz. vol. 150; p. 600.
Cane-stripper. F. J. Dresia. No. 951,237; Mar. 8; Sp. p. 1558; Gaz. vol. 152; p. 280.
Cane stripper and topper, Sugar-. F. M. Cockrell, Jr. No. 976,850; Nov. 29; Sp. p. 6100; Gaz. vol. 160; p. 1050.
Cane-stripping mechanism. T. J. Peters. No. 957,441; May 10; Sp. p. 2030; Gaz. vol. 154; p. 352.
Cane, Walking-. L. Alverson. No. 947,984; Feb. 1; Sp. p. 430; Gaz. vol. 151; p. 68.
Canister. J. Christensen. No. 964,757; July 19; Sp. p. 3854; Gaz. vol. 156; p. 642.
Cannel-coals and other similarly-constituted bituminous materials without change in their chemical composition, Recovery of the paraffin ingredients from. H. Wurtz. No. 977,992; Dec. 6; Sp. p. 1225; Gaz. vol. 161; p. 197.
Cannon. E. J. Blood. No. 958,220; May 17; Sp. p. 3847; Gaz. vol. 154; p. 650.
Canopy attachment for cots or the like, Collapsible. A. G. Cole. No. 969,342; Sept. 6; Sp. p. 399; Gaz. vol. 158; p. 65.
Canopy, Ventilating-. J. N. Moody. No. 972,207; Oct. 11; Sp. p. 1516; Gaz. vol. 159; p. 270.
Cant-dog. F. A. Cloudy. No. 976,986; Nov. 29; Sp. p. 6436; Gaz. vol. 160; p. 1099.
Canteen, Compartment-. W. M. Edwards. No. 975,939; Nov. 15; Sp. p. 4090; Gaz. vol. 160; p. 690.
Canvas-cementer. T. G. Plant. No. 958,284; May 17; Sp. p. 4025; Gaz. vol. 154; p. 672.
Caoutchouc from resinous products, Separating. G. F. Flamant. No. 965,098; July 19; Sp. p. 4545; Gaz. vol. 156; p. 758.
Caoutchouc-like elastic substance, Producing a. M. Schluss. No. 960,116; May 31; Sp. p. 8001; Gaz. vol. 154; p. 1345.
Cap. W. Abrahams. No. 946,306; Jan. 11; Sp. p. 2857; Gaz. vol. 150; p. 474.
Cap. H. C. Finestone and M. Marcus. No. 948,273; Feb. 1; Sp. p. 1007; Gaz. vol. 151; p. 165.
Cap. A. Williams. No. 949,870; Feb. 22; Sp. p. 4398; Gaz. vol. 151; p. 788.

Alphabetical list of inventions—Continued.

Cap. G. A. Mondorf. No. 964,443; July 12; Sp. p. 3033; Gaz. vol. 156; p. 501.
Cap-exploding device. A. F. Lent. No. 976,814; Nov. 22; Sp. p. 5996; Gaz. vol. 160; p. 1013.
Cap-feed mechanism. C. C. Page. No. 953,056; Mar. 29; Sp. p. 5306; Gaz. vol. 152; p. 978.
Cap, Giant-powder. J. H. Fahy. No. 960,867; June 7; Sp. p. 1263; Gaz. vol. 155; p. 211.
Cap, Miner's. A. A. Sonak. No. 974,442; Nov. 1; Sp. p. 836; Gaz. vol. 160; p. 124.
Cap or cover. J. M. Collins. No. 967,000; Aug. 9; Sp. p. 2519; Gaz. vol. 157; p. 414.
Cap protector and shield. F. P. Laslo. No. 954,193; Apr. 5; Sp. p. 1052; Gaz. vol. 153; p. 178.
Cap, Sleeping-. A. Brisbane. No. 945,839; Jan. 11; Sp. p. 1871; Gaz. vol. 150; p. 310.
Cap, Solder-hemmed. E. M. Lang, Jr. No. 949,582; Feb. 15; Sp. p. 3775; Gaz. vol. 151; p. 656.
Capping-machine. F. Mueller and G. W. Gwinn. No. 954,200; Apr. 5; Sp. p. 1066; Gaz. vol. 153; p. 181.
Capping-machine, Duplex. G. Kirkegaard. No. 948,688; Feb. 8; Sp. p. 1923; Gaz. vol. 151; p. 330.
Capping-machines, Clutch for. L. Bartlett. No. 957,929; May 17; Sp. p. 3048; Gaz. vol. 154; p. 547.
Capping-machines, Mechanism for feeding caps to. E. R. Freyer. No. 953,326; Mar. 29; Sp. p. 5902; Gaz. vol. 152; p. 1066.
Caponizing instrument. C. J. Pilling. No. 962,586; June 28; Sp. p. 4972; Gaz. vol. 155; p. 870.
Capstan-screw. G. A. Moore. No. 968,783; Aug. 30; Sp. p. 6298; Gaz. vol. 157; p. 1099.
Capsule-filler. A. R. Hesske. No. 946,940; Jan. 18; Sp. p. 4337; Gaz. vol. 150; p. 713.
Capsule-making machine. A. Colton and B. W. Scott. No. 961,936; June 21; Sp. p. 3522; Gaz. vol. 155; p. 622.
Capsule, Metal. C. W. V. Messerschmidt. No. 970,077; Sept. 13; Sp. p. 2019; Gaz. vol. 158; p. 342.
Car. H. S. Putnam. No. 947,520; Jan. 25; Sp. p. 5629; Gaz. vol. 150; p. 935.
Car. J. E. Ward. No. 971,579; Oct. 4; Sp. p. 146; Gaz. vol. 159; p. 27.
Car. F. S. Ingoldsby. No. 973,788; Oct. 25; Sp. p. 4980; Gaz. vol. 159; p. 866.
Car adapted for subway use. A. B. De Pont. No. 945,247; Jan. 4; Sp. p. 503; Gaz. vol. 150; p. 82.
Car and brake wheel, Combined. C. A. Lindström. No. 970,378; Sept. 13; Sp. p. 2630; Gaz. vol. 158; p. 443.
Car and cart, Dump. J. B. Shelton. No. 962,593; June 28; Sp. p. 4988; Gaz vol. 155; p. 873.
Car and engine replacer. L. L. Coats. No. 979,131; Dec. 20; Sp. p. 3738; Gaz. vol. 161; p. 647.
Car and similar vehicle, Street-. G. C. Wing and F. W. Hempy. No. 953,502; Mar. 29; Sp. p. 6294; Gaz. vol. 152; p. 1128.
Car and similar vehicle, Street-. G. C. Wing and F. W. Hempy. No. 965,972; Aug. 2; Sp. p. 260; Gaz. vol. 157; p. 44.
Car and the like, Freight-. J. Bryan. No. 977,705; Dec. 6; Sp. p. 649; Gaz. vol. 161; p. 99.
Car and tool-driving machine, Track-. H. W. Jacobs. No. 975,042; Nov. 8; Sp. p. 2193; Gaz. vol. 160; p. 357.
Car and truck, Railway. E. W. Summers. No. 972,286; Oct. 11; Sp. p. 1690; Gaz. vol. 159; p. 297.
Car and vehicle, Dump. P. J. Harrigan. No. 975,861; Nov. 15; Sp. p. 3936; Gaz. vol. 160; p. 663.
Car and wagon loader. F. L. Simpson. No. 975,297; Nov. 8; Sp. p. 2760; Gaz. vol. 160; p. 445.
Car antifriction side bearing, Railway-. J. F. O'Connor. No. 980,117; Dec. 27; Sp. p. 5857; Gaz. vol. 161; p. 1001.
Car-arrester. L. Springer and J. F. Ballamy. No. 976,310; Nov. 22; Sp. p. 4935; Gaz. vol. 160; p. 841.
Car attachment, Logging-. W. B. Brown. No. 948,159; Feb. 1; Sp. p. 781; Gaz. vol. 151; p. 128.
Car automatic danger-signal and intermittently-illuminating advertiser, Electric-. A. May. No. 972,007; Oct. 4; Sp. p. 1095; Gaz. vol. 159; p. 184.
Car, Automatic dump-. J. Karhu. No. 962,356; June 21; Sp. p. 4442; Gaz. vol. 155; p. 766.
Car, Automatic dumping-. B. L. Worthen. No. 974,009; Oct. 25; Sp. p. 5447; Gaz. vol. 159; p. 944.
Car-body construction. W. R. McKeen, Jr. No. 973,366; Oct. 18; Sp. p. 4085; Gaz. vol. 159; p. 698.
Car-body underframe. M. M. Schneider. No. 945,142; Jan. 4; Sp. p. 268; Gaz. vol. 150; p. 47.
Car-bolster. E. H. Benners. No. 946,099; Jan. 11; Sp. p. 2402; Gaz. vol. 150; p. 400.
Car-bolster. J. F. O'Connor. No. 976,206; Nov. 22; Sp. p. 4663; Gaz. vol. 160; p. 804.
Car-bolster. C. H. Anderson. No. 978,424; Dec. 13; Sp. p. 2181; Gaz. vol. 161; p. 378.
Car-bolster side bearing. C. L. Schwartz. No. 974,832; Nov. 8; Sp. p. 1695; Gaz. vol. 160; p. 285.
Car, Box-. W. P. Bettendorf. No. 953,115; Mar. 29; Sp. p. 5460; Gaz. vol. 152; p. 997.
Car, Box-. J. M. Hansen. No. 961,773; June 21; Sp. p. 3169; Gaz. vol. 155; p. 569.
Car, Box-. W. E. Fowler. No. 962,425; June 28; Sp. p. 4611; Gaz. vol. 155; p. 814.
Car-brace. J. E. Ogden. No. 968,256; Aug. 23; Sp. p. 5166; Gaz. vol. 157; p. 890.
Car-brake. T. E. Cruess. No. 947,074; Jan. 18; Sp. p. 4588; Gaz. vol. 150; p. 757.
Car-brake. J. H. Hand. No. 949,471; Feb. 15; Sp. p. 3556; Gaz. vol. 151; p. 619.
Car-brake. W. C. Marsh. No. 950,336; Feb. 22; Sp. p. 5411; Gaz. vol. 151; p. 949.
Car-brake. J. W. Lamoreaux. No. 951,820; Mar. 15; Sp. p. 2760; Gaz. vol. 152; p. 504.
Car-brake. T. H. Morgan. No. 952,924; Mar. 22; Sp. p. 5041; Gaz. vol. 152; p. 905.
Car-brake. M. C. Hinton. No. 952,990; Mar. 22; Sp. p. 5161; Gaz. vol. 152; p. 927.
Car-brake. G. M. Braham and J. Lill. No. 957,408; May 10; Sp. p. 1967; Gaz. vol. 154; p. 340.
Car-brake. F. Trexel. No. 968,292; Aug. 23; Sp. p. 5246; Gaz. vol. 157; p. 903.
Car-brake. I. D. Morrison and L. J. Andrews. No. 972,899; Oct. 18; Sp. p. 3051; Gaz. vol. 159; p. 537.
Car-brake. R. M. Fox. No. 973,933; Oct. 25; Sp. p. 5284; Gaz. vol. 159; p. 917.
Car-brake. C. V. Rote. No. 975,893; Nov. 15; Sp. p. 3994; Gaz. vol. 160; p. 674.
Car-brake. M. A. Pahler. No. 976,595; Nov. 22; Sp. p. 5558; Gaz. vol. 160; p. 939.
Car-brake. A. F. Klasing. No. 977,634; Dec. 6; Sp. p. 491; Gaz. vol. 161; p. 74.
Car-brake-beam safety-chain holder. C. L. Schwartz. No. 976,220; Nov. 22; Sp. p. 4703; Gaz. vol. 160; p. 809.
Car brake, Emergency street-. J. A. Gutmann. No. 977,089; Nov. 29; Sp. p. 6649; Gaz. vol. 160; p. 1133.
Car-brake equalizer. H. L. Blunck. No. 977,998; Dec. 6; Sp. p. 1246; Gaz. vol. 161; p. 199.
Car-brake mechanism. E. Ramsay. No. 950,345; Feb. 22; Sp. p. 5432; Gaz. vol. 151; p. 952.
Car-brake-operating mechanism. W. D. Brewster. No. 955,450; Apr. 19; Sp. p. 3783; Gaz. vol. 153; p. 664.
Car brake, Railway-. L. Boirault. No. 953,510; Mar. 29; Sp. p. 6312; Gaz. vol. 152; p. 1132.
Car brake, Railway-. A. Campbell. No. 963,861; July 12; Sp. p. 1876; Gaz. vol. 156; p. 308.
Car brake, Railway-. G. C. Thompson. No. 963,961; July 12; Sp. p. 2074; Gaz. vol. 156; p. 339.
Car brake, Railway-. C. H. Howard and H. M. Pflager. No. 966,446; Aug. 9; Sp. p. 1269; Gaz. vol. 157; p. 228.
Car brake, Railway-. L. de Vito. No. 975,908; Nov. 15; Sp. p. 4026; Gaz. vol. 160; p. 679.
Car-brake safety attachment. J. B. Wright. No. 978,979; Dec. 20; Sp. p. 3370; Gaz. vol. 161; p. 592.
Car brake-shoe, Street-railway-. J. A. Brownfield. No. 949,753; Feb. 22; Sp. p. 4123; Gaz. vol. 151; p. 746.
Car-brass mold. G. L. Hoffer. No. 956,638; May 3; Sp. p. 281; Gaz. vol. 154; p. 47.
Car, Brick-. C. M. Steele. No. 979,898; Dec. 27; Sp p. 5376; Gaz. vol. 161; p. 929.
Car-bridge. C. W. Welch and O. G. Pfleagor. No. 951,518; Mar. 8; Sp. p. 2148; Gaz. vol. 152; p. 373.
Car buffer-fender. D. L. Newcomb. No. 969,143; Aug. 30; Sp. p. 7026; Gaz. vol. 157; p. 1222.
Car buffer, Mine-. V. E. Lane. No. 959,232; May 24; Sp. p. 6106; Gaz. vol. 154; p. 1020.
Car buffing mechanism, Passenger-. R. D. Gallagher, Jr. No. 961,948; June 21; Sp. p. 3552; Gaz. vol. 155; p. 627.
Car buffing mechanism, Passenger-. R. D. Gallagher, Jr. No. 975,945; Nov. 15; Sp. p. 4099; Gaz. vol. 160; p. 692.
Car buffing mechanism, Railway-. R. D. Gallagher, Jr. No. 971,985; Oct. 4; Sp. p. 1058; Gaz. vol. 159; p. 177.
Car buffing mechanism, Railway-. R. D. Gallagher, Jr. No. 979,756; Dec. 27; Sp. p. 5062; Gaz. vol. 161; p. 881.
Car bunk and block, Logging-. F. W. Chriswell. No. 979,650; Dec. 27; Sp. p. 4824; Gaz. vol. 161; p. 846.
Car-bunk and logging-stake. O. S. Carroll and E. S. Avey. No. 963,514; July 5; Sp. p. 1104; Gaz. vol. 156; p. 168.
Car bunk, Sleeping-. M. M. Schneider. No. 965,953; Aug. 2; Sp. p. 212; Gaz. vol. 157; p. 37.
Car center-bearing. J. C. Barber. No. 969,444; Sept. 6; Sp. p. 618; Gaz. vol. 158; p. 98.
Car center-bearing, Railway-. C. H. Anderson. No. 977,694; Dec. 6; Sp. p. 624; Gaz. vol. 161; p. 95.
Car chains, Fastening and releasing device for logging-. J. W. Proctor. No. 980,003; Dec. 27; Sp. p. 5579; Gaz. vol. 161; p. 964.
Car, Child's speed-. J. M. Wheeler. No. 961,370; June 7; Sp. p. 2325; Gaz. vol. 155; p. 411.
Car closure, Dump-. J. W. Moore. No. 972,018; Oct. 4; Sp. p. 1116; Gaz. vol. 159; p. 187.
Car, Combination box-. T. V. Coulston and C. E. Teeter. No. 967,615; Aug. 16; Sp. p. 3793; Gaz. vol. 157; p. 651.
Car compartment and folding table therefor, Railway-. F. J. Leigh. No. 966,028; Aug. 2; Sp. p. 399; Gaz. vol. 157; p. 64.
Car, Concrete-. J. B. Quinn. No. 962,465; June 28; Sp. p. 4704; Gaz. vol. 155; p. 829.
Car connection, Electric-. J. V. Doyle. No. 971,363; Sept. 27; Sp. p. 4711; Gaz. vol. 158; p. 823.
Car construction. H. H. Adams. No. 945,666; Jan. 4; Sp. p. 1412; Gaz. vol. 150; p. 220.
Car construction. H. H. Adams. No. 954,908; Apr. 12; Sp. p. 2670; Gaz. vol. 153; p. 452.
Car construction. J. R. Cardwell. No. 960,502; June 7; Sp. p. 527; Gaz. vol. 155; p. 88.

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Car construction. R. D. Gallagher, Jr. No. 961,949; June 21; Sp. p. 3555; Gaz. vol. 155; p. 627.
Car construction. J. B. Heverling. No. 969,278; Sept. 6; Sp. p. 268; Gaz. vol. 158; p. 44.
Car construction. F. W. C. Schniewind. No. 976,932; Nov. 29; Sp. p. 6295; Gaz. vol. 160; p. 1079.
Car construction. H. M. Pflager. No. 979,030; Dec. 20; Sp. p. 3480; Gaz. vol. 161; p. 610.
Car construction. L. Parish and R. B. Kendig. No. 979,088; Dec. 20; Sp. p. 3605; Gaz. vol. 161; p. 629.
Car construction, Metallic. H. H. Niemeyer, A. E. Lehmann, and A. Sinskey. No. 964,541; July 19; Sp. p. 3296; Gaz. vol. 156; p. 565.
Car construction, Metallic. A. Becker. No. 974,341; Nov. 1; Sp. p. 602; Gaz. vol. 160; p. 90.
Car construction, Railway-. J. M. Coleman. No. 947,372; Jan. 25; Sp. p. 5272; Gaz. vol. 150; p. 886.
Car control apparatus, Railway-. J. B. Atwood. No. 952,494; Mar. 22; Sp. p. 4116; Gaz. vol. 152; p. 758.
Car controller, Street-. J. H. Huey. No. 956,355; Apr. 26; Sp. p. 5785; Gaz. vol. 153; p. 1006.
Car controlling system, Motor-traction-. W. C. Mayo. No. 974,683; Nov. 1; Sp. p. 1366; Gaz. vol. 160; p. 213.
Car, Convertible. J. J. Metz and A. Mosley. No. 961,876; June 21; Sp. p. 3409; Gaz. vol. 155; p. 603.
Car, Convertible box-. J. A. Ansley. No. 958,575; May 17; Sp. p. 4709; Gaz. vol. 154; p. 773.
Car, Convertible freight-. S. C. Lindsay. No. 965,203; July 26; Sp. p. 4754; Gaz. vol. 156; p. 822.
Car, Convertible passenger railway-. M. Rounds. No. 976,218; Nov. 22; Sp. p. 4696; Gaz. vol. 160; p. 808.
Car, Convertible railway-. J. S. Braddock and F. G. Lindsay. No. 967,318; Aug. 16; Sp. p. 3178; Gaz. vol. 157; p. 550.
Car, Convertible stock-. A. Westphal. No. 955,238; Apr. 19; Sp. p. 3332; Gaz. vol. 153; p. 594.
Car-coupling. E. C. Washburn. No. 946,176; Jan. 11; Sp. p. 2573; Gaz. vol. 150; p. 427.
Car-coupling. C. Rosenzweig. No. 947,161; Jan. 18; Sp. p. 4733; Gaz. vol. 150; p. 783.
Car-coupling. C. A. Tower. No. 947,745; Jan. 25; Sp. p. 6058; Gaz. vol. 150; p. 1010.
Car-coupling. A. J. Bazeley. No. 947,748; Jan. 25; Sp. p. 6062; Gaz. vol. 150; p. 1011.
Car-coupling. J. V. Munger. No. 948,399; Feb. 8; Sp. p. 1303; Gaz. vol. 151; p. 234.
Car-coupling. J. V. Munger. No. 948,400; Feb. 8; Sp. p. 1307; Gaz. vol. 151; p. 235.
Car-coupling. J. V. Munger. No. 948,458; Feb. 8; Sp. p. 1419; Gaz. vol. 151; p. 253.
Car-coupling. J. V. Munger. No. 948,459; Feb. 8; Sp. p. 1421; Gaz. vol. 151; p. 254.
Car-coupling. J. L. Daddow. No. 948,606; Feb. 8; Sp. p. 1747; Gaz. vol. 151; p. 302.
Car-coupling. R. E. L. Janney. No. 951,188; Mar. 8; Sp. p. 1463; Gaz. vol. 152; p. 265.
Car-coupling. S. Winter. No. 951,896; Mar. 15; Sp. p. 2930; Gaz. vol. 152; p. 530.
Car-coupling. J. Kelso. No. 956,976; May 3; Sp. p. 1044; Gaz. vol. 154; p. 164.
Car-coupling. S. P. Bush. No. 958,359; May 17; Sp. p. 4289; Gaz. vol. 154; p. 700.
Car-coupling. S. P. Bush. No. 958,360; May 17; Sp. p. 4290; Gaz. vol. 154; p. 700.
Car-coupling. D. S. Montgomery. No. 958,884; May 24; Sp. p. 5392; Gaz. vol. 154; p. 904.
Car-coupling. H. J. Daubert. No. 960,077; May 31; Sp. p. 7934; Gaz. vol. 154; p. 1332.
Car-coupling. A. P. Goldman. No. 960,538; June 7; Sp. p. 617; Gaz. vol. 155; p. 100.
Car-coupling. G. A. Holland and W. F. Barrett. No. 960,550; June 7; Sp. p. 641; Gaz. vol. 155; p. 104.
Car-coupling. W. F. Richards. No. 964,883; July 19; Sp. p. 4117; Gaz. vol. 156; p. 685.
Car-coupling. J. E. Henry. No. 966,832; Aug. 9; Sp. p. 2176; Gaz. vol. 157; p. 358.
Car-coupling. C. A. Tower. No. 969,575; Sept. 6; Sp. p. 909; Gaz. vol. 158; p. 144.
Car-coupling. J. Timms. No. 969,674; Sept. 6; Sp. p. 1105; Gaz. vol. 158; p. 178.
Car-coupling. W. F. Richards. No. 970,113; Sept. 13; Sp. p. 2081; Gaz. vol. 158; p. 354.
Car-coupling. F. C. Reynolds. No. 970,553; Sept. 20; Sp. p. 3008; Gaz. vol. 158; p. 524.
Car-coupling. F. C. Reynolds. No. 971,640; Oct. 4; Sp. p. 274; Gaz. vol. 159; p. 49.
Car-coupling. E. H. Janney. No. 974,153; Nov. 1; Sp. p. 91; Gaz. vol. 160; p. 19.
Car-coupling. E. H. Janney. No. 974,154; Nov. 1; Sp. p. 94; Gaz. vol. 160; p. 19.
Car-coupling. G. C. Harlin. No. 976,361; Nov. 22; Sp. p. 5051; Gaz. vol. 160; p. 857.
Car-coupling. R. B. H. Leighton and V. W. Zilen. No. 976,583; Nov. 22; Sp. p. 5534; Gaz. vol. 160; p. 935.
Car-coupling. H. C. Crigger. No. 977,373; Nov. 29; Sp. p. 7264; Gaz. vol. 160; p. 1233.
Car-coupling attachment. J. W. Jackson. No. 948,096; Feb. 1; Sp. p. 663; Gaz. vol. 151; p. 107.
Car-coupling, Auxiliary. J. E. Uish and D. T. Goodman. No. 964,713; July 19; Sp. p. 3766; Gaz. vol. 156; p. 626.
Car coupling mechanism, Motor-. L. Grémi. No. 965,814; July 26; Sp. p. 6088; Gaz. vol. 156; p. 1032.
Car coupling, Mine-. J. S. Paxton. No. 953,706; Apr. 5; Sp. p. 48; Gaz. vol. 153; p. 11.
Car-coupling-operating attachment. F. Horn. No. 974,793; Nov. 8; Sp. p. 1616; Gaz. vol. 160; p. 272.
Car-coupling-operating device. S. P. Bush. No. 958,361; May 17; Sp. p. 4292; Gaz. vol. 154; p. 701.
Car coupling, Railway-. R. D. Gallagher, Jr. No. 971,882; Oct. 4; Sp. p. 785; Gaz. vol. 159; p. 137.
Car-coupling safety appliance. P. J. Harrigan. No. 965,107; July 19; Sp. p. 4557; Gaz. vol. 156; p. 760.
Car-coupling, uncoupling device. G. F. Brandon. No. 946,592; Jan. 18; Sp. p. 3535; Gaz. vol. 150; p. 595.
Car-coupling uncoupling device. J. R. Carmer. No. 948,205; Feb. 1; Sp. p. 870; Gaz. vol. 151; p. 143.
Car-couplings, Buffer-block, centering device, and carry-iron for. I. O. Wright. No. 952,696; Mar. 22; Sp. p. 4558; Gaz. vol. 152; p. 828.
Car-couplings, Chain-hole cap for. A. J. Bazeley. No. 975,926; Nov. 15; Sp. p. 4065; Gaz. vol. 160; p. 685.
Car-derailing device. C. W. Reinoehl and M. W. Long. No. 964,185; July 12; Sp. p. 2522; Gaz. vol. 156; p. 415.
Car-door. J. Warnock and G. C. Lewis. No. 945,253; Jan. 4; Sp. p. 517; Gaz. vol. 150; p. 85.
Car-door. P. J. A. Schnoor. No. 947,947; Feb. 1; Sp. p. 355; Gaz. vol. 151; p. 57.
Car-door. J. E. Pearce. No. 949,777; Feb. 22; Sp. p. 4175; Gaz. vol. 151; p. 754.
Car-door. W. S. Williams. No. 950,788; Mar. 1; Sp. p. 707; Gaz. vol. 152; p. 113.
Car-door. F. A. McComber. No. 954,326; Apr. 5; Sp. p. 1343; Gaz. vol. 153; p. 222.
Car-door. H. A. Christy. No. 955,381; Apr. 19; Sp. p. 3639; Gaz. vol. 153; p. 641.
Car-door. A. R. Bulloch. No. 955,755; Apr. 19; Sp. p 4459; Gaz. vol. 153; p. 770.
Car-door. C. Buss. No. 955,757; Apr. 19; Sp. p. 4463 Gaz. vol. 153; p. 770.
Car-door. G. A. Carlson. No. 956,758; May 3; Sp. p. 557; Gaz. vol. 154; p. 89.
Car-door. F. Horn. No. 958,873; May 24; Sp. p. 5368; Gaz. vol. 154; p. 901.
Car-door. C. E. Salsbury and R. O. Couch. No. 965,751; July 26; Sp. p. 5939; Gaz. vol. 156; p. 1011.
Car-door. C. I. Walker. No. 967,273; Aug. 16; Sp. p. 3085; Gaz. vol. 157; p. 534.
Car-door. A. H. Glandon. No. 967,757; Aug. 16; Sp. p. 4077; Gaz. vol. 157; p. 698.
Car-door. S. W. Murray. No. 967,814; Aug. 16; Sp. p. 4184; Gaz. vol. 157; p. 717.
Car-door. B. J. O'Neill and M. Voorhees. No. 968,073; Aug. 23; Sp. p. 4756; Gaz. vol. 157; p. 828.
Car-door. A. G. Lott. No. 969,711; Sept. 6; Sp. p. 1174; Gaz. vol. 158; p. 191.
Car-door. B. D. Jones No. 969,878; Sept. 13; Sp. p. 1593; Gaz. vol. 158; p. 274.
Car-door. F. Ward and J. C. Hollingsworth. No. 970,147; Sept. 13; Sp. p. 2140; Gaz. vol. 158; p. 365.
Car-door. A. J. Ricker. No. 973,701; Oct. 25; Sp. p. 4809; Gaz. vol. 159; p. 836.
Car-door. C. M. Christensen. No. 975,209; Nov. 8; Sp. p. 2577; Gaz. vol. 160; p. 415.
Car-door. H. A. Christy. No. 975,749; Nov. 15; Sp. p. 3706; Gaz. vol. 160; p. 625.
Car-door. W. W. Cork. No. 979,654; Dec. 27; Sp. p. 4833; Gaz. vol. 161; p. 848.
Car door, Box-. F. V. Carman. No. 964,899; July 19; Sp. p. 4149; Gaz. vol. 156; p. 691.
Car-door bracket, Freight-. H. Kappele. No. 949,484; Feb. 15; Sp. p. 3573; Gaz. vol. 151; p. 623.
Car-door closure. A. Faget. No. 970,806; Sept. 20; Sp. p. 3589; Gaz. vol. 158; p. 613.
Car door, Dump-. S. Otis. No. 949,494; Feb. 15; Sp. p. 3594; Gaz. vol. 151; p. 626.
Car-door fastener. C. B. Patch. No. 968,190; Aug. 23; Sp. p. 5030; Gaz. vol. 157; p. 867.
Car-door fastener. J. J. Acker. No. 972,978; Oct. 18; Sp. p. 3243; Gaz. vol. 159; p. 564.
Car-door fastener. J. Gauthier. No. 975,347; Nov. 8; Sp. p. 2851; Gaz. vol. 160; p. 461.
Car-door fastening. P. P. Peakes and P. M. Hamlin. No. 947,931; Feb. 1; Sp. p. 312; Gaz. vol. 151; p. 52.
Car door, Flush-closing freight-. J. A. Patton. No. 971,305; Sept. 27; Sp. p. 4590; Gaz. vol. 158; p. 804.
Car door, Freight-. T. W. Heintzelman. No. 964,020; July 12; Sp. p. 2196; Gaz. vol. 156; p. 360.
Car door, Freight-. F. L. Lane. No. 970,837; Sept. 20; Sp. p. 3653; Gaz. vol. 158; p. 624.
Car door, Freight-. J. Wirkus. No. 973,244; Oct. 18; Sp. p. 3834; Gaz. vol. 159; p. 656.
Car door, Grain-. W. S. Driskell. No. 945,381; Jan. 4; Sp. p. 816; Gaz. vol. 150; p. 127.
Car door, Grain-. T. Oswald. No. 950,007; Feb. 22; Sp. p. 4741; Gaz. vol. 151; p. 837.
Car door, Grain-. G., C. E., and A. E. Paget. No. 950,025; Feb. 22; Sp. p. 4799; Gaz. vol. 151; p. 844.
Car door, Grain-. J. E. Faucett. No. 952,319; Mar. 15; Sp. p. 3746; Gaz. vol. 152; p. 671.

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Car door, Grain-. O. Van Camp. No. 953,244; Mar. 29; Sp. p. 5736; Gaz. vol. 152; p. 1040.
Car door, Grain-. E. M. Greenfield. No. 956,078; Apr. 26; Sp. p. 5180; Gaz. vol. 153; p. 912.
Car door, Grain-. A. L. Smock. No. 965,958; Aug. 2; Sp. p. 229; Gaz. vol. 157; p. 38.
Car door, Grain-. W. G. Douglas and W. Robinson. (Reissue.) No. 13,139; Aug. 2; Sp. p. 1174; Gaz. vol. 157; p. 190.
Car door, Grain-. W. G. Craig and A. R. Ramsdell. No. 969,604; Sept. 6; Sp. p. 974; Gaz. vol. 158; p. 154.
Car door, Grain-. A. C. Smith. No. 969,730; Sept. 6; Sp. p. 1221; Gaz. vol. 158; p. 198.
Car door, Grain-. J. Krohn. No. 979,076; Dec. 20; Sp. p. 3572; Gaz. vol. 161; p. 625.
Car-door guide and guard. M. L. Cotter. No. 977,069; Nov. 29; Sp. p. 6610; Gaz. vol. 160; p. 1127.
Car-door hanger. W. R. Kilner. No. 952,120; Mar. 15; Sp. p. 3354; Gaz. vol. 152; p. 604.
Car-door hanger. L. S. Pratt. No. 970,752; Sept. 20; Sp. p. 3463; Gaz. vol. 158; p. 593.
Car-door lock. J. F. Billy. No. 952,411; Mar. 15; Sp. p. 3921; Gaz. vol. 152; p. 702.
Car-door lock. A. O. Buckius, Jr. No. 956,281; Apr. 26; Sp. p. 5624; Gaz. vol. 153; p. 981.
Car-door lock. P. J. Quinn and G. P. Clifford. No. 957,518; May 10; Sp. p. 2181; Gaz. vol. 154; p. 377.
Car-door lock. W. A. Siegfried. No. 962,395; June 21; Sp. p. 4512; Gaz. vol. 155; p. 779.
Car-door lock. G. E. Allison. No. 968,727; Aug. 30; Sp. p. 6187; Gaz. vol. 157; p. 1081.
Car-door lock. A. M. Worthington, S. J. Raetz, and J. W. Kreitter. No. 978,528; Dec. 13; Sp. p. 2397; Gaz. vol. 161; p. 413.
Car-door-locking device. C. W. Bitner. No. 975,113; Nov. 8; Sp. p. 2350; Gaz. vol. 160; p. 382.
Car door, Mining-. J. E. Foster. No. 956,329; Apr. 26; Sp. p. 5735; Gaz. vol. 153; p. 998.
Car-door opening and closing mechanism. G. W. Voigt. No. 965,770; July 26; Sp. p. 5989; Gaz. vol. 156; p. 1018.
Car-door-operating device. A. Christianson. No. 947,793; Feb. 1; Sp. p. 30; Gaz. vol. 151; p. 8.
Car-door-operating mechanism. C. J. Rehlin. No. 954,698; Apr. 12; Sp. p. 2145; Gaz. vol. 153; p. 376.
Car-door-operating mechanism, Dump-. W. A. Caswell. No. 959,459; May 31; Sp. p. 6565; Gaz. vol. 154; p. 1121.
Car-door-operating mechanism, Passenger-. P. N. Jones. No. 966,335; Aug. 2; Sp. p. 1015; Gaz. vol. 157; p. 164.
Car-door-operating mechanism, Street-. F. Volk and T. G. McGann. No. 952,966; Mar. 22; Sp. p. 5120; Gaz. vol. 152; p. 919.
Car-door operator, Freight-. J. A. Pickett. No. 964,934; July 19; Sp. p. 4212; Gaz. vol. 156; p. 703.
Car-door structure. B. D. Jones. No. 968,568; Aug. 30; Sp. p. 5822; Gaz. vol. 157; p. 1025.
Car-door supporting and operating means, Flush-. D. F. Noll. No. 955,537; Apr. 19; Sp. p. 3962; Gaz. vol. 153; p. 696.
Car doors, Weather and cinder strip for box-. J. M. Jordan. No. 955,516; Apr. 19; Sp. p. 3927; Gaz. vol. 153; p. 689.
Car draft appliance, Railway-. W. Kelso. No. 950,485; Mar. 1; Sp. p. 43; Gaz. vol. 152; p. 9.
Car draft appliance, Railway-. W. R. Matthews. No. 950,490; Mar. 1; Sp. p. 58; Gaz. vol. 152; p. 11.
Car draft-gear, Railway-. W. R. Matthews. No. 950,488; Mar. 1; Sp. p. 51; Gaz. vol. 152; p. 10.
Car draft-gear, Railway-. W. R. Matthews. No. 950,489; Mar. 1; Sp. p. 53; Gaz. vol. 152; p. 11.
Car draft-gear, Railway-. G. Barr. No. 960,778; June 7; Sp. p. 1092; Gaz. vol. 155; p. 183.
Car draft-gear, Railway-. T. L. McKeen. No. 966,115; Aug. 2; Sp. p. 570; Gaz. vol. 157; p. 93.
Car draft-rigging. F. Koch. No. 949,798; Feb. 22; Sp. p. 4218; Gaz. vol. 151; p. 761.
Car draft-rigging, Railway-. C. S. Shallenberger. No. 947,857; Feb. 1; Sp. p. 167; Gaz. vol. 151; p. 28.
Car draft-rigging, Railway-. A Wackman. No. 966,495; Aug. 9; Sp. p. 1390; Gaz. vol. 157; p. 244.
Car draft-rigging, Railway-. C. S. Shallenberger. No. 976,508; Nov. 22; Sp. p. 5359; Gaz. vol. 160; p. 909.
Car draft-rigging, Railway-. J. F. O'Connor. No. 977,827; Dec. 6; Sp. p. 887; Gaz. vol. 161; p. 139.
Car driving-gear, Motor-. P. Daimler. No. 963,874; July 12; Sp. p. 1900; Gaz. vol. 156; p. 312.
Car, Drop-bottom. A. Becker. No. 976,538; Nov. 22; Sp. p. 5440; Gaz. vol. 160; p. 919.
Car-dump. G. O. Bradley. No. 948,038; Feb. 1; Sp. p. 539; Gaz. vol. 151; p. 87.
Car, Dump-. F. Seaberg. No. 953,182; Mar. 29; Sp. p. 5606; Gaz. vol. 152; p. 1019.
Car, Dump-. R. L. Sites. No. 953,865; Apr. 5; Sp. p. 366; Gaz. vol. 153; p. 65.
Car, Dump-. J. O. Neikirk. No. 956,819; May 3; Sp. p. 695; Gaz. vol. 154; p. 109.
Car, Dump-. H. S. Hart. No. 956,851; May 3; Sp. p. 768; Gaz. vol. 154; p. 121.
Car, Dump-. A. Lipschutz. No. 957,616; May 10; Sp. p. 2363; Gaz. vol. 154; p. 411.
Car, Dump-. H. D. Hamper and T. R. McKnight. No. 961,772; June 21; Sp. p. 3167; Gaz. vol. 155; p. 569.
Car, Dump-. A. Campbell. No. 964,749; July 19; Sp. p. 3837; Gaz. vol. 156; p. 639.
Car, Dump-. C. F. Blake. No. 966,075; Aug. 2; Sp. p. 498; Gaz. vol. 157; p. 80.
Car, Dump-. R. W. Davies. No. 966,530; Aug. 9; Sp. p. 1499; Gaz. vol. 157; p. 257.
Car, Dump-. S. Otis. No. 968,595; Aug. 30; Sp. p. 5869; Gaz. vol. 157; p. 1035.
Car, Dump-. R. W. Davies. No. 969,462; Sept. 6; Sp. p. 644; Gaz. vol. 158; p. 103.
Car, Dump-. G. A. Rakowsky. No. 973,208; Oct. 18; Sp. p. 3767; Gaz. vol. 159; p. 644.
Car, Dump-. G. A. Rakowsky. No. 973,209; Oct. 18; Sp. p. 3771; Gaz. vol. 159; p. 644.
Car, Dump-. G. A. Rakowsky. No. 973,210; Oct. 18; Sp. p. 3773; Gaz. vol. 159; p. 645.
Car, Dump-. A. Campbell. No. 973,753; Oct. 25; Sp. p. 4904; Gaz. vol. 159; p. 853.
Car, Dump-. F. Seaberg. No. 974,097; Oct. 25; Sp. p. 5614; Gaz. vol. 159; p. 973.
Car, Dump-. A. Campbell. No. 974,470; Nov. 1; Sp. p. 910; Gaz. vol. 160; p. 134.
Car, Dump-. A. Campbell. No. 974,471; Nov. 1; Sp. p. 912; Gaz. vol. 160; p. 135.
Car, Dump-. J. E. Tesseyman and F. L. Irwin. No. 976,411; Nov. 22; Sp. p. 5162; Gaz. vol. 160; p. 877.
Car, Dump-. A. Campbell. No. 977,433; Dec. 6; Sp. p. 13; Gaz. vol. 161; p. 5.
Car-dumper, Automatic. V. C. Calhoun. No. 978,844; Dec. 20; Sp. p. 3054; Gaz. vol. 161; p. 544.
Car, Dumping-. J. K. Furst. No. 947,197; Jan. 18; Sp. p. 4824; Gaz. vol. 150; p. 795.
Car, Dumping-. C. R. Whipple. No. 951,669; Mar. 8; Sp. p. 2452; Gaz. vol. 152; p. 424.
Car, Dumping-. A. Becker. No. 951,933; Mar. 15; Sp. p. 3002; Gaz. vol. 152; p. 544.
Car, Dumping-. C. P. Astrom. No. 954,660; Apr. 12; Sp. p. 1846; Gaz. vol. 153; p. 330.
Car, Dumping-. U. W Keech. No. 960,949; June 7; Sp. p. 1413; Gaz. vol. 155; p. 239.
Car, Dumping-. R. Davenport. No. 963,282; July 5; Sp. p. 653; Gaz. vol. 156; p. 91.
Car, Dumping-. B. L. Newell. No. 964,175; July 12; Sp. p. 2508; Gaz. vol. 156; p. 412.
Car, Dumping-. J. L. Blaker. No. 965,795; July 26; Sp. p. 6052; Gaz. vol. 156; p. 1026.
Car, Dumping-. M. Orenstein. No. 966,237; Aug. 2; Sp. p. 846; Gaz. vol. 157; p. 134.
Car, Dumping-. T. P. Roberts. No. 966,860; Aug. 9; Sp. p. 2228; Gaz. vol. 157; p. 366.
Car, Dumping-. J. M. Goodwin. No. 971,603; Oct. 4; Sp. p. 203; Gaz. vol. 159; p. 36.
Car-dumping device. J. H. Berryman. No. 977,699; Dec. 6; Sp. p. 637; Gaz. vol. 161; p. 97.
Car dumping-door, Railway-. E. W. Summers. No. 975,804; Nov. 15; Sp. p. 3820; Gaz. vol. 160; p. 643.
Car-dumping mechanism. F. C. Greene. No. 946,636; Jan. 18; Sp. p. 3633; Gaz. vol. 150; p. 610.
Car-dumping mechanism. F. C. Greene. No. 976,168; Nov. 22; Sp. p. 4578; Gaz. vol. 160; p. 790.
Car-dumping mechanism. F. C. Greene. No. 976,170; Nov. 22; Sp. p. 4594; Gaz. vol. 160; p. 791.
Car-dumping mechanism, Continuous. F. C. Greene and C. G. Palmer. No. 976,167; Nov. 22; Sp. p. 4568; Gaz. vol. 160; p. 790.
Car-dumping mechanism, Continuous. F. C. Greene and C. G. Palmer. No. 976,169; Nov. 22; Sp. p. 4590; Gaz. vol. 160; p. 791.
Car, Dumping railway-. J. V. Ericson. No. 955,452; Apr. 19; Sp. p. 3790; Gaz. vol. 153; p. 665.
Car-equalizing mechanism. H. W. Blake. No. 976,845; Nov. 29; Sp. p. 6087; Gaz. vol. 160; p. 1048.
Car-fender. G. A. Parmenter. No. 945,727; Jan. 4; Sp. p. 1565; Gaz. vol. 150; p. 241.
Car-fender. O. J. Schmitt. No. 945,813; Jan. 11; Sp. p. 1790; Gaz. vol. 150; p. 300.
Car-fender. J. Rakousky. No. 947,260; Jan. 25; Sp. p. 4979; Gaz. vol. 150; p. 846.
Car-fender. J. F. Risdon. No. 947,851; Feb. 1; Sp. p. 157; Gaz. vol. 151; p. 26.
Car-fender. C. L. and R. W. Sharp. No. 948,640; Feb. 8; Sp. p. 1828; Gaz. vol. 151; p. 314.
Car-fender. A. C. Seeger. No. 949,200; Feb. 15; Sp. p. 2978; Gaz. vol. 151; p. 527.
Car-fender. E. E. Close. No. 950,203; Feb. 22; Sp. p. 5151; Gaz. vol. 151; p. 904.
Car-fender. I. H. Caliga. No. 951,100; Mar. 8; Sp. p. 1296; Gaz. vol. 152; p. 237.
Car-fender. J. T. Carraher. No. 951,775; Mar. 8; Sp. p. 2660; Gaz. vol. 152; p. 460.
Car-fender. J. L. Smith. No. 952,846; Mar. 22; Sp. p. 4891; Gaz. vol. 152; p. 880.
Car-fender. E. Sherwood. No. 953,064; Mar. 29; Sp. p. 5335; Gaz. vol. 152; p. 981.
Car-fender. J. W. Weaver. No. 953,726; Apr. 5; Sp. p. 87; Gaz. vol. 153; p. 18.
Car-fender. J. J. Kelly. No. 954,303; Apr. 5; Sp. p. 1296; Gaz. vol. 153; p. 214.
Car-fender. J. D. Marvil. No. 954,754; Apr. 12; Sp. p. 2299; Gaz. vol. 153; p. 398.

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Car-fender. F. Pataky. No. 954,762; Apr. 12; Sp. p. 2321; Gaz. vol. 153; p. 401.
Car-fender. L. Fabian. No. 955,147; Apr. 19; Sp. p. 3129; Gaz. vol. 153; p. 562.
Car-fender. C. A. Bisbee. No. 955,495; Apr. 19; Sp. p. 3882; Gaz. vol. 153; p. 682.
Car-fender. J. Blackburn. No. 956,470; Apr. 26; Sp. p. 6032; Gaz. vol. 153; p. 1046.
Car-fender. W. P. Clampitt. No. 956,483; Apr. 26; Sp. p. 6065; Gaz. vol. 153; p. 1051.
Car-fender. J. B. Bernier. No. 957,540; May 10; Sp. p. 2230; Gaz. vol. 154; p. 386.
Car-fender. C. P. Bronson. No. 958,473; May 17; Sp. p. 4513; Gaz. vol. 154; p. 739.
Car-fender. A. H. Carter. No. 959,309; May 24; Sp. p. 6252; Gaz. vol. 154; p. 1046.
Car-fender. A. J. Thornley. No. 960,056; May 31; Sp. p. 7898; Gaz. vol. 154; p. 1326.
Car-fender. O. McQuillan and E. D. Chaitken. No. 962,041; June 21; Sp. p. 3749; Gaz. vol. 155; p. 658.
Car-fender. G. Koros. No. 962,226; June 21; Sp. p. 4162; Gaz. vol. 155; p. 722.
Car-fender. W. T. Watson. No. 962,278; June 21; Sp. p. 4282; Gaz. vol. 155; p. 740.
Car-fender. F. E. Deemer and E. W. Korff. No. 962,323; June 21; Sp. p. 4376; Gaz. vol. 155; p. 755.
Car-fender. A. J. Thornley. No. 964,887; July 19; Sp. p. 4124; Gaz. vol. 156; p. 686.
Car-fender. G. Dysinger. No. 965,167; July 26; Sp. p. 4678; Gaz. vol. 156; p. 811.
Car-fender. L. Pfingst. No. 966,354; Aug. 2; Sp. p. 1056; Gaz. vol. 157; p. 170.
Car-fender. G. Hipwood. No. 967,917; Aug. 23; Sp. p. 4405; Gaz. vol. 157; p. 776.
Car-fender. J. A. Wiedersheim. No. 969,586; Sept. 6; Sp. p. 943; Gaz. vol. 158; p. 149.
Car-fender. O. M. Snyder. No. 969,667; Sept. 6; Sp. p. 1093; Gaz. vol. 158; p. 175.
Car-fender. G. Frey and S. Lotz. No. 970,699; Sept. 20; Sp. p. 3340; Gaz. vol. 158; p. 574.
Car-fender. O. J. Schmitt. No. 974,300; Nov. 1; Sp. p. 499; Gaz. vol. 160; p. 73.
Car-fender. J. M. Moorhouse. No. 975,780; Nov. 15; Sp. p. 3775; Gaz. vol. 160; p. 635.
Car-fender. B. W. Haskell and S. B. McCrea. No. 977,867; Dec. 6; Sp. p. 973; Gaz. vol. 161; p. 153.
Car-fender, Automatic. A. J. Hagan. No. 969,753; Sept. 6; Sp. p. 1293; Gaz. vol. 158; p. 207.
Car-fender, Automatic safety. I. Ksiažek. No. 965,199; July 26; Sp. p. 4745; Gaz. vol. 156; p. 821.
Car fender, Motor-. R. Forward. No. 952,243; Mar. 15; Sp. p. 3587; Gaz. vol. 152; p. 645.
Car fender, Street-railway-. B. Murphy. No. 954,874; Apr. 12; Sp. p. 2589; Gaz. vol. 153; p. 441.
Car flooring, Railway-. W. P. Bettendorf. No. 953,116; Mar. 29; Sp. p. 5463; Gaz. vol. 152; p. 998.
Car for pleasure-railways. J. A. Miller. No. 979,982; Dec. 27; Sp. p. 5537; Gaz. vol. 161; p. 956.
Car for roller-coasters. A. G. Sharkey. No. 952,472; Mar. 22; Sp. p. 4064; Gaz. vol. 152; p. 751.
Car-frame. W. R. McKeen, Jr. No. 972,467; Oct. 11; Sp. p. 2047; Gaz. vol. 159; p. 359.
Car frame and supporting-truck therefor, Suspension-railway-. J. H. Smith. No. 953,352; Mar. 29; Sp. p. 5968; Gaz. vol. 152; p. 1075.
Car frame, Steel-. A. Christianson. No. 955,850; Apr. 26; Sp. p. 4672; Gaz. vol. 153; p. 832.
Car, Freight-. J. M. Coleman. No. 975,398; Nov. 15; Sp. p. 2968; Gaz. vol. 160; p. 504.
Car friction draft-rigging, Railway-. J. F. O'Connor. No. 966,235; Aug. 2; Sp. p. 843; Gaz. vol. 157; p. 134.
Car friction draft-rigging, Railway-. C. L. Bundy. No. 974,467; Nov. 1; Sp. p. 903; Gaz. vol. 160; p. 133.
Car, Funeral-. S. W. Mather. No. 951,193; Mar. 8; Sp. p. 1471; Gaz. vol. 152; p. 266.
Car-gate. J. W. Bussey. No. 977,270; Nov. 29; Sp. p. 7041; Gaz. vol. 160; p. 1197.
Car, Gondola. A. Becker. No. 952,026; Mar. 15; Sp. p. 3187; Gaz. vol. 152; p. 573.
Car grain-door. C. O. French. No. 951,809; Mar. 15; Sp. p. 2742; Gaz. vol. 152; p. 501.
Car grain-door. J. Henry. No. 963,290; July 5; Sp. p. 663; Gaz. vol. 156; p. 93.
Car grain-door. F. A. McComber. No. 968,387; Aug. 23; Sp. p. 5433; Gaz. vol. 157; p. 937.
Car grain-door. E. E. A. Martin. No. 973,060; Oct. 18; Sp. p. 3421; Gaz. vol. 159; p. 592.
Car grain-door. O. J. Olson. No. 976,284; Nov. 22; Sp. p. 4875; Gaz. vol. 160; p. 832.
Car grain-door, Box-. S. W. Murray. No. 966,348; Aug. 2; Sp. p. 1046; Gaz. vol. 157; p. 168.
Car grain-door, Box-. S. Tappin. No. 967,856; Aug. 16; Sp. p. 4272; Gaz. vol. 157; p. 731.
Car grain-door, Freight-. P. S. Ratzlaff. No. 949,659; Feb. 15; Sp. p. 3909; Gaz. vol. 151; p. 681.
Car grain-door, Freight-. W. K. Lavis. No. 971,621; Oct. 4; Sp. p. 242; Gaz. vol. 159; p. 43.
Car grain-door, Freight-. H. W. Drew. No. 973,486; Oct. 25; Sp. p. 4353; Gaz. vol. 159; p. 761.
Car grain-door, Railway-. J. J. Sands. No. 966,476; Aug. 9; Sp. p. 1341; Gaz. vol. 157; p. 238.
Car, Gravel dump-. A. Campbell. No. 963,863; July 12; Sp. p. 1880; Gaz. vol. 156; p. 309.
Car, Hand-. H. E. Hale and J. O. Potts. No. 948,878; Feb. 8; Sp. p. 2312; Gaz. vol. 151; p. 393.
Car, Hand-. J. C. Dunlop. No. 949,418; Feb. 15; Sp. p. 3454; Gaz. vol. 151; p. 603.
Car hand-brake, Railway-. R. T. Burdette. No. 962,693; June 28; Sp. p. 5189; Gaz. vol. 155; p. 906.
Car-handling apparatus, Mine-. J. McEvoy. No. 978,321; Dec. 13; Sp. p. 1960; Gaz. vol. 161; p. 342.
Car-handling mechanism. A. J. Lafayette, Jr., No. 950,927; Mar. 1; Sp. p. 971; Gaz. vol. 152; p. 155.
Car-haul. H. H. Bighouse. No. 948,678; Feb. 8; Sp. p. 1907; Gaz. vol. 151; p. 327.
Car-haul. P. W. Holstein and G. C. Horst. No. 971,614; Oct. 4; Sp. p. 228; Gaz. vol. 159; p. 40.
Car-hauls, Feeder for. T. J. Jorden and J. W. Pemberton. No. 955,884; Apr. 26; Sp. p. 4768; Gaz. vol. 153; p. 844.
Car-heating systems, Thermostatic controller for. J. F. McElroy. No. 949,285; Feb. 15; Sp. p. 3152; Gaz. vol. 151; p. 555.
Car, Hopper dump-. A. Campbell. No. 963,862; July 12; Sp. p. 1878; Gaz. vol. 156; p. 308.
Car-indicator. D. Willoughby. No. 948,911; Feb. 8; Sp. p. 2380; Gaz. vol. 151; p. 405.
Car-indicator. H. M. Adams. No. 953,311; Mar. 29; Sp. p. 5869; Gaz. vol. 152; p. 1060.
Car-indicator. W. D. Baldwin and A. Sundh. No. 973,334; Oct. 18; Sp. p. 4016; Gaz. vol. 159; p. 687.
Car jack, Railway-. P. J. Garrison. No. 952,518; Mar. 22; Sp. p. 4158; Gaz. vol. 152; p. 765.
Car-journal dust-guard. J. P. Thomas. No. 962,480; June 28; Sp. p. 4731; Gaz. vol. 155; p. 834.
Car-journal, sponging-shield, and oil-saver. L. E. Keller. No. 958,135; May 17; Sp. p. 3681; Gaz. vol. 154; p. 621.
Car, Ladle-. C. P. Astrom. No. 954,561; Apr. 12; Sp. p. 1847; Gaz. vol. 153; p. 330.
Car life-guard, Railway-. W. Torrens. No. 973,393; Oct. 18; Sp. p. 4149; Gaz. vol. 159; p. 707.
Car life-guard, Railway-. G. A. Parmenter. (Reissue.) No. 13,172; Nov. 22; Sp. p. 6041; Gaz. vol. 160; p. 1021.
Car-lift. F. C. Greene. No. 949,228; Feb. 15; Sp. p. 3026; Gaz. vol. 151; p. 537.
Car-lighting installation. C. H. Anderson. No. 968,913; Aug. 30; Sp. p. 6563; Gaz. vol. 157; p. 1143.
Car-lines, Apparatus for tabulating the passenger traffic on. J. T. Crabbs. No. 959,313; May 24; Sp. p. 6257; Gaz. vol. 154; p. 1047.
Car lining, Freight-. W. J. Brennan. No. 945,747; Jan. 11; Sp. p. 1647; Gaz. vol. 150; p. 276.
Car loader, Railway-box-. H. L. Jackson. No. 957,885; May 17; Sp. p. 2937; Gaz. vol. 154; p. 532.
Car-loading apparatus. M. C. Volk. No. 966,493; Aug. 9; Sp. p. 1387; Gaz. vol. 157; p. 244.
Car lock, Dump-. A. C. Stansill, C. H. Doty, and F. W. Hubbard. No. 973,229; Oct. 18; Sp. p. 3809; Gaz. vol. 159; p. 651.
Car-lock for mine-cages, Automatic. J. H. Alpenfels and H. A. Williams. No. 964,733; July 19; Sp. p. 3808; Gaz. vol. 156; p. 633.
Car locking mechanism, Railway-dump-. C. W. Russell. No. 966,603; Aug. 9; Sp. p. 1655; Gaz. vol. 157; p. 282.
Car, Logging-. W. T. Harding. No. 971,444; Sept. 27; Sp. p. 4852; Gaz. vol. 158; p. 849.
Car, Mining-. J. Blair. No. 959,294; May 24; Sp. p. 6225; Gaz. vol. 154; p. 1040.
Car, Motor-. C. A. Harp. No. 946,855; Jan. 18; Sp. p. 4135; Gaz. vol. 150; p. 684.
Car, Motor-. F. R. Martin and O. M. Shepherd. No. 952,457; Mar. 22; Sp. p. 4026; Gaz. vol. 152; p. 745.
Car-opening screen. I. Kommers, Jr. No. 947,413; Jan. 25; Sp. p. 5367; Gaz. vol. 150; p. 899.
Car or other vehicles, Bolster for. W. H. Miner. No. 953,048; Mar. 29; Sp. p. 5293; Gaz. vol. 152; p. 975.
Car-panel with movable sash. S. M. Curwen. No. 966,430; Aug. 9; Sp. p. 1221; Gaz. vol. 157; p. 221.
Car, Passenger-. C. H. Anderson. No. 946,871; Jan. 18; Sp. p. 4191; Gaz. vol. 150; p. 690.
Car, Passenger-. W. S. Adams. No. 951,040; Mar. 1; Sp. p. 1173; Gaz. vol. 152; p. 192.
Car, Passenger-. H. C. Heffner. No. 957,057; May 3; Sp. p. 1198; Gaz. vol. 154; p. 190.
Car, Passenger-. H. H. Adams. No. 957,639; May 10; Sp. p. 2420; Gaz. vol. 154; p. 418.
Car, Passenger-. P. N. Jones. No. 962,224; June 21; Sp. p. 4159; Gaz. vol. 155; p. 722.
Car, Passenger-. P. N. Jones. No. 962,225; June 21; Sp. p. 4160; Gaz. vol. 155; p. 722.
Car, Passenger-. P. N. Jones. No. 964,269; July 12; Sp. p. 2696; Gaz. vol. 156; p. 445.
Car, Passenger-. C. A. Coons. No. 969,602; Sept. 6; Sp. p. 971; Gaz. vol. 158; p. 154.
Car, Passenger-. S. T. Bole. No. 970,010; Sept. 13; Sp. p. 1877; Gaz. vol. 158; p. 320.
Car, Passenger-. C. R. Seiser. No. 973,884; Oct. 25; Sp. p. 5184; Gaz. vol. 159; p. 900.
Car, Passenger-. E. T. Robinson. No. 976,601; Nov. 22; Sp. p. 5569; Gaz. vol. 160; p. 941.

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Car, Passenger-. C. H. Anderson. No. 977,359; Nov. 29; Sp. p. 7233; Gaz. vol. 160; p. 1228.
Car, Passenger electric-railway. F. H. Lincoln. No. 945,964; Jan. 11; Sp. p. 2137; Gaz. vol. 150; p. 355.
Car, Passenger railway-. L. E. Paden. No. 963,722; July 5; Sp. p. 1522; Gaz. vol. 156; p. 237.
Car, Pay-as-you-enter. H. Rowntree. No. 949,717; Feb. 15; Sp. p. 4018; Gaz. vol. 151; p. 699.
Car, Pay-within. H. Rowntree. No. 949,131; Feb. 15; Sp. p. 2852; Gaz. vol. 151; p. 504.
Car-platform closure. I. H. Saunders. No. 961,024; June 7; Sp. p. 1577; Gaz. vol. 155; p. 264.
Car-platform door and step guard. H. Howson. No. 977,310; Nov. 29; Sp. p. 7112; Gaz. vol. 160; p. 1210.
Car pneumatic door device and brake-release mechanism, Combined street-. H. Rowntree and G. M. Spencer. No. 954,592; Apr. 12; Sp. p. 1912; Gaz. vol. 153; p. 340.
Car, Poultry-. F. X. Mudd. No. 956,401; Apr. 26; Sp. p. 5882; Gaz. vol. 153; p. 1022.
Car, Rack-rail-braking. N. D. Levin. No. 960,355; June 7; Sp. p. 238; Gaz. vol. 155; p. 41.
Car, Railway-. J. O. Neikirk. No. 953,176; Mar. 29; Sp. p. 5586; Gaz. vol. 152; p. 1017.
Car, Railway-. S. Otis. No. 953,347; Mar. 29; Sp. p. 5958; Gaz. vol. 152; p. 1074.
Car, Railway-. R. J. Edwards. No. 953,781; Apr. 5; Sp. p. 196; Gaz. vol. 153; p. 36.
Car, Railway-. J. Bryan. No. 954,166; Apr. 5; Sp. p. 999; Gaz. vol. 153; p. 168.
Car, Railway-. R. M. Nisbett. No. 957,363; May 10; Sp. p. 1870; Gaz. vol. 154; p. 325.
Car, Railway-. C. L. Schwartz. No. 965,232; July 26; Sp. p. 4808; Gaz. vol. 156; p. 831.
Car, Railway-. A. Hansen. No. 970,047; Sept. 13; Sp. p. 1958; Gaz. vol. 158; p. 332.
Car, Railway-. F. L. Erwin and J. E. Tesseyman. No. 977,405; Nov. 29; Sp. p. 7352; Gaz. vol. 160; p. 1243.
Car, Railway dump-. A. Campbell. No. 974,642; Nov. 1; Sp. p. 1285; Gaz. vol. 160; p. 198.
Car, Railway dumping-. M. P. Henvis. No. 962,348; June 21; Sp. p. 4429; Gaz. vol. 155; p. 763.
Car, Railway motor-. S. D. Reynolds. No. 950,241; Feb. 22; Sp. p. 5231; Gaz. vol. 151; p. 917.
Car, Railway track-. M. L. Jenkins. No. 963,576; July 5; Sp. p. 1235; Gaz. vol. 156; p. 189.
Car, Railway track-. M. L. Jenkins. No. 973,664; Oct. 25; Sp. p. 4741; Gaz. vol. 159; p. 823.
Car, Registering-turnstile passenger railway-. C. W. Cranmer. No. 966,657; Aug. 9; Sp. p. 1757; Gaz. vol. 157; p. 299.
Car-replacer. L. A. Coleman and H. Abrames. No. 945,755; Jan. 11; Sp. p. 1660; Gaz. vol. 150; p. 279.
Car-replacer. H. Outhouse. No. 946,909; Jan. 18; Sp. p. 4280; Gaz. vol. 150; p. 703.
Car-replacer. W. S. Coppers. No. 949,315; Feb. 15; Sp. p. 3213; Gaz. vol. 151; p. 566.
Car-replacer. A. C. Kelley. No. 951,532; Mar. 8; Sp. p. 2180; Gaz. vol. 152; p. 378.
Car-replacer. G. W. McMun. No. 953,221; Mar. 29; Sp. p. 5680; Gaz. vol. 152; p. 1032.
Car-replacer. W. H. Bussabarger. No. 954,253; Apr. 5; Sp. p. 1183; Gaz. vol. 153; p. 198.
Car-replacer. H. C. Harrison. No. 954,800; Apr. 12; Sp. p. 2419; Gaz. vol. 153; p. 414.
Car-replacer. F. J. Wood. No. 955,375; Apr. 19; Sp. p. 3629; Gaz. vol. 153; p. 640.
Car-replacer. E. Best and D. A. Scott. No. 957,405; May 10; Sp. p. 1963; Gaz. vol. 154; p. 339.
Car-replacer. J. Clement. No. 965,085; July 19; Sp. p. 4519; Gaz. vol. 156; p. 753.
Car retarder or chock. R. M. Lindsay. No. 962,967; June 28; Sp. p. 5710; Gaz. vol. 155; p. 1001.
Car roller side bearing, Railway-. J. F. O'Connor. No. 972,902; Oct. 18; Sp. p. 3056; Gaz. vol. 159; p. 538.
Car-roof. W. P. Murphy. No. 946,823; Jan. 18; Sp p. 4056; Gaz. vol. 150; p. 673.
Car-roof. J. Pearson. No. 949,838; Feb. 22; Sp. p. 4306; Gaz. vol. 151; p. 776.
Car-roof. J. Pearson. No. 949,839; Feb. 22; Sp. p. 4308; Gaz. vol. 151; p. 776.
Car-roof. J. Masker. No. 950,487; Mar. 1; Sp. p. 48; Gaz. vol. 152; p. 10.
Car-roof. P. H. Murphy. No. 950,947; Mar. 1; Sp. p. 1016; Gaz. vol. 152; p. 163.
Car-roof. W. P. Murphy. No. 951,094; Mar. 1; Sp. p. 1279; Gaz. vol. 152; p. 209.
Car-roof. W. K. Lavis. No. 954,194; Apr 5; Sp. p. 1054; Gaz. vol. 153; p. 178.
Car-roof. J. Marold. No. 959,366; May 24; Sp. p. 6368; Gaz. vol. 154; p. 1065.
Car-roof. W. F. Kiesel, Jr. No. 961,301; June 14; Sp. p. 2167; Gaz. vol. 155; p. 387.
Car-roof. E. Posson. No. 966,595; Aug. 9; Sp. p. 1638; Gaz. vol. 157; p. 279.
Car-roof. P. H. Murphy. No. 969,972; Sept. 13; Sp. p. 1796; Gaz. vol. 158; p. 305.
Car-roof. H. Stillman. No. 973,888; Oct. 25; Sp. p. 5196; Gaz. vol. 159; p. 902.
Car-roof framework. E. Posson. No. 955,544; Apr. 19; Sp. p. 3978; Gaz. vol. 153; p. 698.
Car-roof, Outside metal. J. J. Hoffman. No. 946,729; Jan. 18; Sp. p. 3830; Gaz. vol. 150; p. 639.
Car-roof, Outside metal. P. H. Murphy. No. 968,183; Aug. 23; Sp. p. 5021; Gaz. vol. 157; p. 865.
Car-roofs, Construction of. D. Tatum. No. 950,356; Feb. 22; Sp. p. 5444; Gaz. vol. 151; p. 954.
Car-roofing, Metallic. J. T. Crawford. No. 945,918; Jan. 11; Sp. p. 2033; Gaz. vol. 150; p. 338.
Car rotating light, Railway-. T. A. Teate. No. 968,714; Aug. 30; Sp. p. 6160; Gaz. vol. 157; p. 1076.
Car running-gear, Railway-. A. R. Angus. No. 964,479; July 19; Sp. p. 3129; Gaz. vol. 156; p. 545.
Car safety appliance, Railway-. J. T. Andrew. No. 965,679; July 26; Sp. p. 5810; Gaz. vol. 156; p. 987.
Car safety attachment. B. F. Rogers. No. 963,396; July 5; Sp. p. 874; Gaz. vol. 156; p. 129.
Car safety-brake. W. E. Nolan. No. 955,536; Apr. 19; Sp. p. 3959; Gaz. vol. 153; p. 695.
Car safety device, Railway-. W. S. Jackson. No. 970,231; Sept. 13; Sp. p. 2339; Gaz. vol. 158; p. 394.
Car safety-gate, Railway-. F. T. Fillion. No. 960,871; June 7; Sp. p. 1268; Gaz. vol. 155; p. 213.
Car safety-guard, Railway-. J. and J. B. Nelson and G. C. Hanks. No. 972,632; Oct. 11; Sp. p. 2460; Gaz. vol. 159; p. 418.
Car safety-wheel, Railway-. J. T. Andrew. No. 956,261; Apr. 26; Sp. p. 5591; Gaz. vol. 153; p. 975.
Car sand-box. G. H. Monroe. No. 965,212; July 26; Sp. p. 4771; Gaz. vol. 156; p. 825.
Car sand-box. M. B. Hall. No. 966,829; Aug. 9; Sp. p. 2170; Gaz. vol. 157; p. 357.
Car-sash, Metallic. E. E. Greene. No. 954,094; Apr. 5; Sp. p. 838; Gaz. vol. 153; p. 145.
Car-seat. F. Hachmann. No. 946,125; Jan. 11; Sp. p. 2449; Gaz. vol. 150; p. 408.
Car-seat. E. G. Budd. No. 950,745; Mar. 1; Sp. p. 615; Gaz. vol. 152; p. 98.
Car-seat. F. M. Billhime. No. 971,822; Oct. 4; Sp. p. 648; Gaz. vol. 159; p. 114.
Car-seat. C. W. H. Frederick. No. 971,983; Oct. 4; Sp. p. 1050; Gaz. vol. 159; p. 176.
Car-seat head-rest. H. W. Bowman. No. 969,030; Aug. 30; Sp. p. 6786; Gaz. vol. 157; p. 1183.
Car-seat head-rest. H. W. Bowman. No. 971,428; Sept. 27; Sp. p. 4822; Gaz. vol. 158; p. 844.
Car-seat structure. F. H. Henry. No. 974,664; Nov. 1; Sp. p. 1330; Gaz. vol. 160; p. 206.
Car, Self-clearing-bottom coal-. D. L. Knowles, J. Marvel, and C. Heselden. No. 947,682; Jan. 25; Sp. p. 5948; Gaz. vol. 150; p. 990.
Car-sheathing. W. J. Boyer. No. 968,321; Aug. 23; Sp. p. 5305; Gaz. vol. 157; p. 914.
Car side bearing. E. S. Woods. (Reissue.) No. 13,181; Dec. 6; Sp. p. 1535; Gaz. vol. 161; p. 248.
Car side construction. J. G. Bower. No. 948,659; Feb. 8; Sp. p. 1861; Gaz. vol. 151; p. 321.
Car-side-tightening means. C. F. Murray. No. 967,412; Aug. 16; Sp. p. 3385; Gaz. vol. 157; p. 583.
Car-side-tightening means, Railway-. C. F. Murray. No. 967,220; Aug. 16; Sp. p. 2979; Gaz. vol. 157; p. 516.
Car signal system, Electric-. F. S. Denneen. No. 948,758; Feb. 8; Sp. p. 2087; Gaz. vol. 151; p. 354.
Car, Sleeping-. H. H. Niemeyer, A. E. Lehmann, and A. Sinskey. No. 964,539; July 19; Sp. p. 3285; Gaz. vol. 156; p. 564.
Car, Sleeping-. H. H. Niemeyer, A. E. Lehmann, and A. Sinskey. No. 964,540; July 19; Sp. p. 3291; Gaz. vol. 156; p. 565.
Car sliding grain-door. F. C. Lakin. No. 958,140; May 17; Sp. p. 3691; Gaz. vol. 154; p. 623.
Car, Spliced-side gondola. S. Otis. No. 958,426; May 17; Sp. p. 4414; Gaz. vol. 154; p. 722.
Car-stake. C. J. Rehlin. No. 946,562; Jan. 18; Sp. p. 3483; Gaz. vol. 150; p. 585.
Car-stake, Automatic. J. G. Smith. No. 978,124; Dec. 6; Sp. p. 1512; Gaz. vol. 161; p. 243.
Car-stake socket. C. T. and W. H. Eaid and P. S. Crotty. No. 952,003; Mar. 15; Sp. p. 3138; Gaz. vol. 152; p. 565.
Car-step. C. E. Hedgepeth. No. 945,531; Jan. 4; Sp. p. 1132; Gaz. vol. 150; p. 175.
Car-step. D. F. Lemon. No. 950,334; Feb. 22; Sp. p. 5408; Gaz. vol. 151; p. 949.
Car-step. J. Laverty and H. S. Williams. No. 958,657; May 17; Sp. p. 4863; Gaz. vol. 154; p. 798.
Car-step. R. R. Crane. No. 978,563; Dec. 13; Sp. p. 2494; Gaz. vol. 161; p. 426.
Car step and gate, Combination. B. Capra. No. 975,017; Nov. 8; Sp. p. 2136; Gaz. vol. 160; p. 348.
Car step and platform. S. W. Bishop. No. 977,504; Dec. 6; Sp. p. 178; Gaz. vol. 161; p. 29.
Car-step, Automatic. W. M. Hamilton. No. 962,832; June 28; Sp. p. 5470; Gaz. vol. 155; p. 956.
Car-step, Auxiliary. W. O. Daly. No. 952,442; Mar. 22; Sp. p. 3987; Gaz. vol. 152; p. 739.
Car-step, Auxiliary. L. I. Gregg and E. A. De Voss. No. 969,362; Sept. 6; Sp. p. 449; Gaz. vol. 158; p. 72.
Car-step, Extension. U. E. Crofut, Jr. No. 948,874; Feb. 8; Sp. p. 2306; Gaz. vol. 151; p. 392.
Car-step, Extension. B. F. Massey. No. 953,538; Mar. 29; Sp. p. 6376; Gaz. vol. 152; p. 1141.

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Car-step, Extension. E. S. Mitchell and G. A. Campbell. No. 955,658; Apr. 19; Sp. p. 4253; Gaz. vol. 153; p. 736.
Car-step, Extension. J. J. Oling. No. 961,002; June 7; Sp. p. 1537; Gaz. vol. 155; p. 257.
Car-step, Extension. B. Smith and G. Shivadecker. No. 973,714; Oct. 25; Sp. p. 4840; Gaz. vol. 159; p. 841.
Car-step, Folding. S. K. Gerhardt. No. 968,340; Aug. 23; Sp. p. 5340; Gaz. vol. 157; p. 920.
Car-step, Folding. R. W. Lomax. No. 976,195; Nov. 22; Sp. p. 4646; Gaz. vol. 160; p. 800.
Car step or running-board, Safety. E. C. Dodson. No. 952,728; Mar. 22; Sp. p. 4632; Gaz. vol. 152; p. 839.
Car-step, Register-operating. F. Langharst. No. 949,299; Feb. 15; Sp. p. 3182; Gaz. vol. 151; p. 561.
Car steps and doors, Mechanism for operating. J. F. McElroy. No. 959,873; May 31; Sp. p. 7453; Gaz. vol. 154; p. 1260.
Car-steps, Means for illuminating. W. H. McAloney. No. 961,887; June 21; Sp. p. 3433; Gaz. vol. 155; p. 607.
Car-steps, Means for operating. S. M. Curwen. No. 973,261; Oct. 18; Sp. p. 3865; Gaz. vol. 159; p. 661.
Car, Stock-. J. C. Jones. No. 974,068; Oct. 25; Sp. p. 5563; Gaz. vol. 159; p. 964.
Car-stop. H. H. Weiske. No. 947,068; Jan. 18; Sp. p. 4579; Gaz. vol. 150; p. 755.
Car, Street-. C. O. Birney. No. 949,877; Feb. 22; Sp. p. 4417; Gaz. vol. 151; p. 790.
Car, Street-. C. O. Birney. No. 949,878; Feb. 22; Sp. p. 4420; Gaz. vol. 151; p. 791.
Car, Street-. H. M. Sloan. No. 951,661; Mar. 8; Sp. p. 2437; Gaz. vol. 152; p. 421.
Car, Street-. W. Lumley. No. 956,774; May 3; Sp. p. 590; Gaz. vol. 154; p. 94.
Car, Street-. T. J. Mueller. No. 964,929; July 19; Sp. p. 4205; Gaz. vol. 156; p. 701.
Car structure. A. E. Smith. No. 956,740; May 3; Sp. p. 512; Gaz. vol. 154; p. 83.
Car structure. W. R. McKeen, Jr. No. 972,708; Oct. 11; Sp. p. 2601; Gaz. vol. 159; p. 443.
Car-tallying device, Mine-. J. Ross. No. 976,696; Nov. 22; Sp. p. 5744; Gaz. vol. 160; p. 973.
Car, Tank-. H. C. Priebe. No. 946,647; Jan. 18; Sp. p. 3655; Gaz. vol. 150; p. 612.
Car, Tank-. M. A. Garrett. No. 951,239; Mar. 8; Sp. p. 1562; Gaz. vol. 152; p. 281.
Car, Tank-. V. M. Summa. No. 959,817; May 31; Sp. p. 7327; Gaz. vol. 154; p. 1241.
Car, Tank-. W. M. Krickbaum. No. 963,025; June 28; Sp. p. 5830; Gaz. vol. 155; p. 1020.
Car, Tank-. L. E. Allyn. No. 971,102; Sept. 27; Sp. p. 4183; Gaz. vol. 158; p. 738.
Car-toilet, Sanitary. C. R. Blake. No. 966,158; Aug. 2; Sp. p. 686; Gaz. vol. 157; p. 107.
Car-tool. J. W. Kendrick. No. 953,668; Mar. 29; Sp. p. 6643; Gaz. vol. 152; p. 1185.
Car-transferring device. O. H. Baker. No. 955,039; Apr. 12; Sp. p. 2924; Gaz. vol. 153; p. 495.
Car-uncoupling mechanism. A. J. Bazeley. No. 947,747; Jan. 25; Sp. p. 6061; Gaz. vol. 150; p. 1011.
Car-uncoupling mechanism. O. Anderson. No. 970,778; Sept. 20; Sp. p. 3523; Gaz. vol. 158; p. 602.
Car-underframe. C. T. Westlake. No. 945,830; Jan. 11; Sp. p. 1834; Gaz. vol. 150; p. 307.
Car-underframe. H. C. Priebe. No. 946,865; Jan. 18; Sp. p. 4167; Gaz. vol. 150; p. 688.
Car-underframe. H. C. Priebe. No. 947,259; Jan. 25; Sp. p. 4976; Gaz. vol. 150; p. 846.
Car-underframe. A. Becker. No. 952,027; Mar. 15; Sp. p. 3189; Gaz. vol. 152; p. 573.
Car-underframe. A. Becker. No. 952,028; Mar. 15; Sp. p. 3190; Gaz. vol. 152; p. 574.
Car-underframe. A. Becker. No. 952,062; Mar. 15; Sp. p. 3249; Gaz. vol. 152; p. 585.
Car-underframe. A. Becker. No. 953,582; Mar. 29; Sp. p. 6470; Gaz. vol. 152; p. 1156.
Car-underframe. C. F. Frede. No. 954,026; Apr. 5; Sp. p. 689; Gaz. vol. 153; p. 121.
Car-underframe. A. Becker. No. 956,841; May 3; Sp. p. 742; Gaz. vol. 154; p. 117.
Car-underframe. W. P. Bettendorf. No. 957,182; May 10; Sp. p. 1467; Gaz. vol. 154; p. 262.
Car-underframe. R. W. Davies. No. 968,031; Aug. 23; Sp. p. 4660; Gaz. vol. 157; p. 814.
Car-underframe. C. T. Westlake and C. F. Frede. No. 979,115; Dec. 20; Sp. p. 3695; Gaz. vol. 161; p. 641.
Car-underframe end construction. F. Koch. No. 947,339; Jan. 25; Sp. p. 5194; Gaz. vol. 150; p. 876.
Car underframe, Railway-. J. G. Bower. No. 951,934; Mar. 15; Sp. p. 3003; Gaz. vol. 152; p. 544.
Car underframe, Railway-. H. S. Hart. No. 963,891; July 12; Sp. p. 1933; Gaz. vol. 156; p. 317.
Car underframe, Railway-. G. B. Robbins and W. E. Sharp. No. 966,054; Aug. 2; Sp. p. 461; Gaz. vol. 157; p. 74.
Car underframe, Railway-. C. S. Shallenberger. No. 970,128; Sept. 13; Sp. p. 2106; Gaz. vol. 158; p. 359.
Car underframe, Railway-. A. Becker. No. 976,426; Nov. 22; Sp. p. 5191; Gaz. vol. 160; p. 882.
Car-underframing, Metal. H. Pries. No. 965,934; Aug. 2; Sp. p. 181; Gaz. vol. 157; p. 31.
Car-unloader. T. Lightbody. No. 972,700; Oct. 11; Sp. p. 2580; Gaz. vol. 159; p. 440.
Car-unloading machine. J. McMyler. No. 950,238; Feb. 22; Sp. p. 5227; Gaz. vol. 151; p. 916.
Car-ventilating device, Sleeping-. E. Davis. No. 973,413; Oct. 18; Sp. p. 4195; Gaz. vol. 159; p. 714.
Car ventilating, refrigerating, and heating system. T. H. Garland. No. 978,284; Dec. 13; Sp. p. 1883; Gaz. vol. 161; p. 330.
Car-ventilator. R. E. Frame. No. 954,509; Apr. 12; Sp. p. 1742; Gaz. vol. 153; p. 312.
Car-ventilator. E. Posson. No. 955,543; Apr. 19; Sp. p. 3975; Gaz. vol. 153; p. 697.
Car-ventilator. F. W. Simson. No. 962,476; June 28; Sp. p. 4723; Gaz. vol. 155; p. 833.
Car-ventilator. A. Best. No. 964,373; July 12; Sp. p. 2898; Gaz. vol. 156; p. 479.
Car-ventilator. A. A. Kempski. No. 973,513; Oct. 25; Sp. p. 4412; Gaz. vol. 159; p. 771.
Car ventilator, Railway-. E. A. Barber. No. 947,171; Jan. 18; Sp. p. 4767; Gaz. vol. 150; p. 786.
Car-vestibule-diaphragm spring. F. G. Fowler. No. 966,818; Aug. 9; Sp. p. 2147; Gaz. vol. 157; p. 354.
Car-vestibule door. J. S. Mucklé. No. 956,500; Apr. 26; Sp. p. 6107; Gaz. vol. 153; p. 1057.
Car-vestibules, Curtain-releasing attachment for. O. Swanson. No. 965,048; July 19; Sp. p. 4448; Gaz. vol. 156; p. 740.
Car view-box. C. E. Crane. No. 951,755; Mar. 8; Sp. p. 2623; Gaz. vol. 152; p. 453.
Car-wheel. W. McConway. No. 946,995; Jan. 18; Sp. p. 4442; Gaz. vol. 150; p. 732.
Car-wheel. G. H. Downs. No. 947,435; Jan. 25; Sp. p. 5409; Gaz. vol. 150; p. 906.
Car-wheel. L. G. Woods. No. 950,500; Mar. 1; Sp. p. 87; Gaz. vol. 152; p. 14.
Car-wheel. L. G. Woods. No. 950,501; Mar. 1; Sp. p. 90; Gaz. vol. 152; p. 15.
Car-wheel. E. A. Johnson. No. 958,924; May 24; Sp. p. 5479; Gaz. vol. 154; p. 918.
Car-wheel. J. P. Pastre. No. 961,639; June 14; Sp. p. 2892; Gaz. vol. 155; p. 500.
Car-wheel. W. McConway. No. 962,456; June 28; Sp. p. 4677; Gaz. vol. 155; p. 826.
Car-wheel. A. S. Gustafson. No. 963,289; July 5; Sp. p. 661; Gaz. vol. 156; p. 93.
Car-wheel. W. H. Daugherty. No. 974,363; Nov. 1; Sp. p. 653; Gaz. vol. 160; p. 98.
Car-wheel. G. H. Bryant and A. Ziesing. No. 974,549; Nov. 1; Sp. p. 1098; Gaz. vol. 160; p. 165.
Car-wheel. P. Holmgren. No. 977,308; Nov. 29; Sp. p. 7109; Gaz. vol. 160; p. 1209.
Car-wheel. S. Wilkinson. No. 979,051; Dec. 20; Sp. p. 3528; Gaz. vol. 161; p. 617.
Car wheel and axle. B. L. Worthen. No. 945,894; Jan. 11; Sp. p. 1987; Gaz. vol. 150; p. 330.
Car-wheel and propelling parts coöperating therewith, Double safety. L. Clark. No. 955,382; Apr. 19; Sp. p. 3642; Gaz. vol. 153; p. 642.
Car-wheel blanks, Apparatus for transferring and removing mandrels from. A. Christianson. No. 967,169; Aug. 16; Sp. p. 2885; Gaz. vol. 157; p. 499.
Car-wheel blanks, Manufacturing. H. R. Keithley. No. 975,383; Nov. 8; Sp. p. 2932; Gaz. vol. 160; p. 473.
Car-wheel-casting mold. J. K. Griffith. No. 971,604; Oct. 4; Sp. p. 210; Gaz. vol. 159; p. 37.
Car-wheel-casting mold. J. K. Griffith. No. 971,605; Oct. 4; Sp. p. 211; Gaz. vol. 159; p. 37.
Car-wheel, Forged-metal. E. E. Slick. No. 965,040; July 19; Sp. p. 4431; Gaz. vol. 156; p. 738.
Car-wheel jack-stand. D. Champeon. No. 958,364; May 17; Sp. p. 4296; Gaz. vol. 154; p. 701.
Car-wheel lathe. C. G. Draeseke. No. 972,348; Oct. 11; Sp. p. 1804; Gaz. vol. 159; p. 317.
Car wheel, Mine-. J. T. Parks and M. T. Davis, Jr. No. 945,584; Jan. 4; Sp. p. 1241; Gaz. vol. 150; p. 193.
Car wheel, Mine-. T. Donohoe. No. 960,852; June 7; Sp. p. 1234; Gaz. vol. 155; p. 206.
Car-wheel, Noiseless. P. P. Cookingham. No. 970,185; Sept. 13; Sp. p. 2223; Gaz. vol. 158; p. 378.
Car-wheel press. G. T. Reiss. No. 959,071; May 24; Sp. p. 5778; Gaz. vol. 154; p. 967.
Car wheel, Railway-. J. A. McLennan. No. 968,879; Aug. 30; Sp. p. 6492; Gaz. vol. 157; p. 1131.
Car wheel, Self-lubricating pit-. F. S. Armstrong, Jr. No. 977,360; Nov. 29; Sp. p. 7234; Gaz. vol. 160; p. 1228.
Car-wheels, Alloy for making. W. W. Lobdell. No. 947,248; Jan. 25; Sp. p. 4944; Gaz. vol. 150; p. 842.
Car-wheels, Reworking. J. M. Hansen. No. 969,275; Sept. 6; Sp. p. 263; Gaz. vol. 158; p. 43.
Car-window. L. J. Berg. No. 955,123; Apr. 19; Sp. p. 3081; Gaz. vol. 153; p. 553.
Car-window. E. H. Harriman and W. R. McKeen, Jr. No. 973,502; Oct. 25; Sp. p. 4388; Gaz. vol. 159; p. 767.
Car-window guard. F. T. Parker. No. 963,319; July 5; Sp. p. 716; Gaz. vol. 156; p. 103.
Cars, Air-intake for. H. W. Leeds. No. 948,144; Feb. 1; Sp. p. 753; Gaz. vol. 151; p. 123.
Cars and carriages, Automatic coupling for. L. Boirault. No. 977,926; Dec. 6; Sp. p. 1097; Gaz. vol. 161; p. 174.

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Cars and electric-railway carriages, Device for braking tram-. C. Degoumois. No. 972,514; Oct. 11; Sp. p. 2182; Gaz. vol. 159; p. 377.

Cars and other conveyances, Appliance for railway-. H. T. Cronk. No. 964,217; July 12; Sp. p. 2586; Gaz. vol. 156; p. 426.

Cars and other vehicles, Fender for. J. A. Wiedersheim. No. 946,180; Jan. 11; Sp. p. 2580; Gaz. vol. 150; p. 428.

Cars and the like, Spare wheel for motor-. G. Huysmans. No. 972,080; Oct. 4; Sp. p. 1232; Gaz. vol. 159; p. 209.

Cars, Angle-cock holder for railway-. L. A. Hoerr. No. 965,902; Aug. 2; Sp. p. 121; Gaz. vol. 157; p. 20.

Cars, Antifriction center-bearing for railway-. J. F. O'Connor. No. 953,054; Mar. 29; Sp. p. 5302; Gaz. vol. 152; p. 977.

Cars, Antitelescoping construction for. T. Dunbar. No. 956,799; May 3; Sp. p. 644; Gaz. vol. 154; p. 102.

Cars, Automatic registering device for street-. L. J. Dugan. No. 954,725; Apr. 12; Sp. p. 2225; Gaz. vol. 153; p. 386.

Cars, Automatic step for. N. E. Landin. No. 963,589; July 5; Sp. p. 1263; Gaz. vol. 156; p. 193.

Cars, automobiles, or other vehicles, Fender for. A. Stein. No. 947,604; Jan. 25; Sp. p. 5802; Gaz. vol. 150; p. 963.

Cars, Beamless brake mechanism for railway-. W. P. Bettendorf. No. 956,673; May 3; Sp. p. 362; Gaz. vol. 154; p. 60.

Cars, Bell-operating mechanism for railway-. F. J. Roche. No. 948,403; Feb. 8; Sp. p. 1316; Gaz. vol. 151; p. 236.

Cars, Bolster construction for railway-. J. R. Carmer. No. 970,302; Sept. 13; Sp. p. 2482; Gaz. vol. 158; p. 418.

Cars, Bolster construction for railway-. J. R. Carmer. No. 970,303; Sept. 13; Sp. p. 2483; Gaz. vol. 158; p. 418.

Cars, Brake-ratchet shield for railway-. W. A. McWatty and A. A. Sinclair. No. 950,266; Feb. 22; Sp. p. 5282; Gaz. vol. 151; p. 926.

Cars, Buffer for automatic couplings for railway and street. L. Boirault. No. 968,917; Aug. 30; Sp. p. 6570; Gaz. vol. 157; p. 1144.

Cars, Carline for box-. T. De Vinney. No. 945,084; Jan. 4; Sp. p. 164; Gaz. vol. 150; p. 27.

Cars, Compressed-air system for railway-. O. Johnson. No. 971,896; Oct. 4; Sp. p. 832; Gaz. vol. 159; p. 143.

Cars, Curtain for vestibule-. E. C. Holmes. No. 956,966; May 3; Sp. p. 1021; Gaz. vol. 154; p. 160.

Cars, Device for preventing theft from. E. L. Pence. No. 968,494; Aug. 23; Sp. p. 5649; Gaz. vol. 157; p. 973.

Cars, Device to fasten grain-doors in freight-. C. R. Frye. No. 972,688; Oct. 11; Sp. p. 2562; Gaz. vol. 159; p. 436.

Cars, Dirt-spreading attachment for. E. McCormick. No. 954,536; Apr. 12; Sp. p. 1794; Gaz. vol. 153; p. 322.

Cars, Distance-spacing device for freight-. T. Conley. No. 958,368; May 17; Sp. p. 4302; Gaz. vol. 154; p. 702.

Cars, Drop-stake for logging-. F. E. Thrall, S. Shea, and B. H. Thrall. No. 949,966; Feb. 22; Sp. p. 4603; Gaz. vol. 151; p. 822.

Cars, Electric signaling device for motor-. J. L. Palous. No. 955,192; Apr. 19; Sp. p. 3225; Gaz. vol. 153; p. 578.

Cars, Emergency-exit for suspension-railway. F. O. Butler and S. C. Rockman. No. 945,748; Jan. 11; Sp. p. 1649; Gaz. vol. 150; p. 277.

Cars, Equalizing truck-mounting for electric traction-. P. N. Jones. No. 953,910; Apr. 5; Sp. p. 449; Gaz. vol. 153; p. 82.

Cars, Friction-buffer for railway-. J. F. O'Connor. No. 976,903; Nov. 29; Sp. p. 6206; Gaz. vol. 160; p. 1068.

Cars, Friction draft-gear for railway-. A. Becker. No. 976,427; Nov. 22; Sp. p. 5192; Gaz. vol. 160; p. 882.

Cars, &c., from entry, Means for protecting freight-. J. A. Campbell. No. 975,508; Nov. 15; Sp. p. 3192; Gaz. vol. 160; p. 543.

Cars, &c., Hanger-strap or handhold for. J. F. Newton, Jr. No. 947,022; Jan. 18; Sp. p. 4504; Gaz. vol. 150; p. 741.

Cars, Life-guard for railway-. G. A. Parmenter. No. 955,678; Apr. 19; Sp. p. 4297; Gaz. vol. 153; p. 743.

Cars, &c., Load-retaining attachment for freight-. W. R. Teachout. No. 969,002; Aug. 30; Sp. p. 6731; Gaz. vol. 157; p. 1172.

Cars, Means for locking drop-doors of dump-. R. G. Taylor. No. 955,225; Apr. 19; Sp. p. 3304; Gaz. vol. 153; p. 590.

Cars, Metallic running-board saddle for railway-. C. J. Nash. No. 946,847; Jan. 18; Sp. p. 4118; Gaz. vol. 150; p. 682.

Cars, Pay-as-you-enter attachment for street-. H. J. Dressel. No. 947,695; Jan. 25; Sp. p. 5970; Gaz. vol. 150; p. 994.

Cars, Pay-as-you-enter attachment for street-. H. J. Dressel. No. 947,732; Jan. 25; Sp. p. 6036; Gaz. vol. 150; p. 1006.

Cars, Reinforcing-truss for motor-. D. B. Gardner. No. 961,406; June 14; Sp. p. 2385; Gaz. vol. 155; p. 422.

Cars, Safety controlling device for street-. E. D. White. No. 954,710; Apr. 12; Sp. p. 2179; Gaz. vol. 153; p. 381.

Cars, Safety device for railway-. J. F. Miller. No. 950,726; Mar. 1; Sp. p. 577; Gaz. vol. 152; p. 90.

Cars, Sewage system for railway-. A. C. Clarke. No. 957,933; May 17; Sp. p. 3053; Gaz. vol. 154; p. 548.

Cars, Signal-bell-cord hanger for. A. H. Marden. No. 971,291; Sept. 27; Sp. p. 4568; Gaz. vol. 158; p. 799.

Cars, Sill-protector, bolster-stop, and truss-rod support for. J. Erickson. No. 970,900; Sept. 20; Sp. p. 3769; Gaz. vol. 158; p. 643.

Cars, Skidding device for railway-. S. P. Bradshaw. No. 961,098; June 14; Sp. p. 1738; Gaz. vol. 155; p. 316.

Cars, Stake-brace for lumber-. J. Tallouse. No. 969,671; Sept. 6; Sp. p. 1099; Gaz. vol. 158; p. 177.

Cars, System of operating dump-. F. S. Ingoldsby. No. 977,876; Dec. 6; Sp. p. 994; Gaz. vol. 161; p. 156.

Cars, Trap-door for vestibule-. W. F. Kiesel, Jr. No. 956,978; May 3; Sp. p. 1050; Gaz. vol. 154; p. 165.

Cars, Ventilating-cowl for railway-. F. J. Leigh. No. 969,708; Sept. 6; Sp. p. 1168; Gaz. vol. 158; p. 190.

Cars, Wardrobe-hanger for sleeping-. J. A. Halderman. No. 949,356; Feb. 15; Sp. p. 3316; Gaz. vol. 151; p. 581.

Caramel-holder. S. B. Lafean. No. 945,788; Jan. 11; Sp. p. 1730; Gaz. vol. 150; p. 291.

Carbid and products of same, Manufacturing. H. L. Hartenstein. No. 946,432; Jan. 11; Sp. p. 3210; Gaz. vol. 150; p. 517.

Carbid-feed mechanism. A. E. Schlieder. No. 965,756; July 26; Sp. p. 5960; Gaz. vol. 156; p. 1013.

Carbid, Manufacture of. H. L. Hartenstein. No. 946,433; Jan. 11; Sp. p. 3213; Gaz. vol. 150; p. 517.

Carbid, Manufacturing. H. L. Hartenstein. No. 946,497; Jan. 11; Sp. p. 3350; Gaz. vol. 150; p. 538.

Carbid, Manufacturing. H. L. Hartenstein. No. 946,511; Jan. 11; Sp. p. 3398; Gaz. vol. 150; p. 544.

Carbohydrates into hydrocarbons, Converting. A. Heinemann. No. 951,072; Mar. 1; Sp. p. 1232; Gaz. vol. 152; p. 202.

Carbon and producing it, Treated. P. J. Mulvey. No. 949,988; Feb. 22; Sp. p. 4694; Gaz. vol. 151; p. 830.

Carbon-black together with combustible gas, Production of. W. H. Frost and J. J. Nix. No. 977,000; Nov. 29; Sp. p. 6468; Gaz. vol. 160; p. 1103.

Carbon-breaker. H. B. Basim. No. 960,779; June 7; Sp. p. 1094; Gaz. vol. 155; p. 183.

Carbon brushes, Pigtail connection for. W. Shaw. No. 972,267; Oct. 11; Sp. p. 1652; Gaz. vol. 159; p. 290.

Carbon, Heating. F. J. Tone. No. 961,912; June 21; Sp. p. 3475; Gaz. vol. 155; p. 615.

Carbon-holder. H. L. Hartenstein. No. 946,434; Jan. 11; Sp. p. 3217; Gaz. vol. 150; p. 517.

Carbon-holder. H. L. Hartenstein. No. 946,435; Jan. 11; Sp. p. 3220; Gaz. vol. 150; p. 517.

Carbon-remover. R. Zastrow. No. 954,491; Apr. 12; Sp. p. 1696; Gaz. vol. 153; p. 306.

Carbon-sheet holder. C. E. Archbald. No. 978,807; Dec. 13; Sp. p. 2982; Gaz. vol. 161; p. 505.

Carbonaceous briquet. T. Davis. No. 966,804; Aug. 9; Sp. p. 2109; Gaz. vol. 157; p. 350.

Carbonaceous briquets, Binder for. T. Davis. No. 966,803; Aug. 9; Sp. p. 2108; Gaz. vol. 157; p. 349.

Carbonated liquid and flavoring-syrup under pressure, Charging vessels with. J. A. Hicks. No. 952,903; Mar. 22; Sp. p. 4997; Gaz. vol. 152; p. 898.

Carbonating and beer-dispensing apparatus, Combined. A. D. Jones. No. 963,047; July 5; Sp. p. 38; Gaz. vol. 156; p. 9.

Carbonating apparatus. J. C. Murphy. No. 977,467; Dec. 6; Sp. p. 82; Gaz. vol. 161; p. 16.

Carbonating apparatus. C. L. Bastian. No. 978,103; Dec. 6; Sp. p. 1463; Gaz. vol. 161; p. 236.

Carbonating-machine. L. Caul. No. 974,774; Nov. 8; Sp. p. 1577; Gaz. vol. 160; p. 265.

Carbonized fabric. F. L. Horton. No. 972,110; Oct. 4; Sp. p. 1288; Gaz. vol. 159; p. 217.

Carbonized fabric, Making. F. L. Horton. No. 963,291; July 5; Sp. p. 665; Gaz. vol. 156; p. 94.

Carbonizing. A. F. Rockwell. No. 975,076; Nov. 8; Sp. p. 2263; Gaz. vol. 160; p. 369.

Carbonizing apparatus. A. F. Rockwell. No. 975,077; Nov. 8; Sp. p. 2265; Gaz. vol. 160; p. 369.

Carbonizing or case-hardening low-carbon steel. H. Rodman. No. 949,447; Feb. 15; Sp. p. 3501; Gaz. vol. 151; p. 611.

Carboy. F. S. Havens. No. 947,749; Jan. 25; Sp. p. 6064; Gaz. vol. 150; p. 1012.

Carboy-necks, Protective device for. L. Furbush. No. 950,720; Mar. 1; Sp. p. 565; Gaz. vol. 152; p. 88.

Carbureter. G. M. Holley. No. 945,167; Jan. 4; Sp. p. 330; Gaz. vol. 150; p. 56.

Carbureter. W. K. Bassford. No. 946,632; Jan. 18; Sp. p. 3628; Gaz. vol. 150; p. 609.

Carbureter. J. A. Steward. No. 947,357; Jan. 25; Sp. p. 5233; Gaz. vol. 150; p. 882.

Carbureter. G. W. Henricks. No. 947,712; Jan. 25; Sp. p. 6006; Gaz. vol. 150; p. 1000.

Carbureter. W. Shearer. No. 948,744; Feb. 8; Sp. p. 2046; Gaz. vol. 151; p. 349.

Carbureter. W. P. Kingsbury. No. 948,977; Feb. 8; Sp. p. 2515; Gaz. vol. 151; p. 427.

Carbureter. P. J. Dasey. No. 950,278; Feb. 22; Sp. p. 5307; Gaz. vol. 151; p. 930.

Carbureter. L. Anderson. No. 950,423; Feb. 22; Sp. p. 5572; Gaz. vol. 151; p. 977.

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Carbureter. T. J. Grott. No. 951,002; Mar. 1; Sp. p. 1114; Gaz. vol. 152; p. 180.
Carbureter. G. W. Brown. No. 951,590; Mar. 8; Sp. p. 2286; Gaz. vol. 152; p. 396.
Carbureter. W. D. French. No. 951,779; Mar. 8; Sp. p. 2674; Gaz. vol. 152; p. 462.
Carbureter. T. H. Van Buren. No. 951,923; Mar. 15; Sp. p. 2987; Gaz. vol. 152; p. 541.
Carbureter. F. W. Hagar. No. 952,326; Mar. 15; Sp. p. 3756; Gaz. vol. 152; p. 673.
Carbureter. J. Schwartz. No. 952,547; Mar. 22; Sp. p. 4234; Gaz. vol. 152; p. 776.
Carbureter. A. M. Wolf. No. 954,488; Apr. 12; Sp. p. 1684; Gaz. vol. 153; p. 305.
Carbureter. A. Howarth. No. 954,630; Apr. 12; Sp. p. 2001; Gaz. vol. 153; p. 355.
Carbureter. H. O. Craven. No. 954,785; Apr. 12; Sp. p. 2360; Gaz. vol. 153; p. 408.
Carbureter. A. M. Wolf. No. 954,905; Apr. 12; Sp. p. 2666; Gaz. vol. 153; p. 451.
Carbureter. J. W. Smith. No. 955,218; Apr. 19; Sp. p. 3286; Gaz. vol. 153; p. 588.
Carbureter. A. E. Stoker. No. 955,222; Apr. 19; Sp. p. 3298; Gaz. vol. 153; p. 589.
Carbureter. F. W. Sickles, T. D. Millea, and M. J. Carroll. No. 955,292; Apr. 19; Sp. p. 3438; Gaz. vol. 153; p. 611.
Carbureter. W. R. Park. No. 955,353; Apr. 19; Sp. p. 3578; Gaz vol. 153; p. 632.
Carbureter. R. J. Ennis. No. 955,956; Apr. 26; Sp. p. 4914; Gaz. vol. 153; p. 868.
Carbureter. W. H. C. Higgins, Jr. (Reissue.) No. 13,111; May 3; Sp. p. 1444; Gaz. vol. 154; p. 232.
Carbureter. F. W. Brady. No. 957,731; May 10; Sp. p. 2606; Gaz. vol. 154; p. 451.
Carbureter. A. Howarth. No. 958,128; May 17; Sp. p. 3662; Gaz. vol. 154; p. 618.
Carbureter. G. E. Cook. No. 958,476; May 17; Sp. p. 4518; Gaz. vol. 154; p. 740.
Carbureter. J. W. Snedeker. No. 958,897; May 24; Sp. p. 5431; Gaz. vol. 154; p. 909.
Carbureter. W. Ottaway. No. 959,066; May 24; Sp. p. 5759; Gaz. vol. 154; p. 965.
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Carbureter. A. C. Stewart. No. 960,601; June 7; Sp. p. 736; Gaz. vol. 155; p. 121.
Carbureter. L. Plein. No. 960,697; June 7; Sp. p. 935; Gaz. vol. 155; p. 155.
Carbureter. E. N. Broderick. No. 961,284; June 14; Sp. p. 2130; Gaz. vol. 155; p. 382.
Carbureter. T. L. and T. J. Sturtevant. No. 961,423; June 14; Sp. p. 2420; Gaz. vol. 155; p. 427.
Carbureter. W. C. Carter. No. 961,481; June 14; Sp. p. 2556; Gaz. vol. 155; p. 447.
Carbureter. C. E. Hall and W. Dicks. No. 962,140; June 21; Sp. p. 3992; Gaz. vol. 155; p. 693.
Carbureter. H. A. Miller. No. 962,649; June 28; Sp. p. 5095; Gaz. vol. 155; p. 891.
Carbureter. S. P. Sanders. No. 962,860; June 28; Sp. p. 5522; Gaz. vol. 155; p. 966.
Carbureter. F. W. Tuerk. No. 963,187; July 5; Sp. p. 407; Gaz. vol. 156; p. 58.
Carbureter. J. Peterson. No. 963,804; July 12; Sp. p. 1741; Gaz. vol. 156; p. 288.
Carbureter. J. R. Mack. No. 963,914; July 12; Sp. p. 1975; Gaz. vol. 156; p. 324.
Carbureter. J. M. Kelley. No. 964,165; July 12; Sp. p. 2487; Gaz. vol. 156; p. 409.
Carbureter. C. Fox. No. 964,409; July 12; Sp. p. 2971; Gaz. vol. 156; p. 490.
Carbureter. R. E. Wynn. No. 964,831; July 19; Sp. p. 4003; Gaz. vol. 156; p. 666.
Carbureter. P. Bustard. No. 965,867; Aug. 2; Sp. p. 39; Gaz. vol. 157; p. 9.
Carbureter. E. P. Brooks. No. 966,381; Aug. 2; Sp. p. 1107; Gaz. vol. 157; p. 179.
Carbureter. W. C. Westaway. No. 968,215; Aug. 23; Sp. p. 5082; Gaz. vol. 157; p. 875.
Carbureter. J. W. Parkin. No. 968,597; Aug. 30; Sp. p. 5872; Gaz. vol. 157; p. 1035.
Carbureter. F. J. Cox. No. 969,941; Sept. 13; Sp. p. 1725; Gaz. vol. 158; p. 296.
Carbureter. J. P. Ryan. No. 970,558; Sept. 20; Sp. p. 3019; Gaz. vol. 158; p. 526.
Carbureter. E. J. Gulick. No. 971,038; Sept. 27; Sp. p. 4049; Gaz. vol. 158; p. 717.
Carbureter. G. M. Schebler. No. 971,689; Oct. 4; Sp. p. 371; Gaz. vol. 159; p. 65.
Carbureter. G. M. Schebler. No. 971,862; Oct. 4; Sp. p. 751; Gaz. vol. 159; p. 130.
Carbureter. P. Daniel. No. 973,262; Oct. 18; Sp. p 3867; Gaz. vol. 159; p. 661.
Carbureter. J. G. Williams. No. 973,602; Oct. 25; Sp. p. 4584; Gaz. vol. 159; p. 800.
Carbureter. W. C. Carter. No. 973,755; Oct. 25; Sp. p. 4933; Gaz. vol. 159; p. 854.
Carbureter. P. C. Cannon. No. 973,855; Oct. 25; Sp. p. 5118; Gaz. vol. 159; p. 889.
Carbureter. B. N. Pierce. No. 973,877; Oct. 25; Sp. p. 5170; Gaz. vol. 159; p. 898.
Carbureter. W. F. Rothe. No. 973,882; Oct. 25; Sp. p. 5181; Gaz. vol. 159; p. 900.
Carbureter. W. E. Haines. No. 973,937; Oct. 25; Sp. p. 5288; Gaz. vol. 159; p. 918.
Carbureter. P. Daniel. No. 974,033; Oct. 25; Sp. p. 5494; Gaz. vol. 159; p. 953.
Carbureter. F. L. Kingston. No. 974,076; Oct. 25; Sp. p. 5573; Gaz. vol. 159; p. 966.
Carbureter. G. A. Hockman. No. 975,038; Nov. 8; Sp. p. 2185; Gaz. vol. 160; p. 356.
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Carbureter. W. H. Potthast. No. 975,635; Nov. 15; Sp. p. 3465; Gaz. vol. 160; p. 587.
Carbureter. J. H. Koontz. No. 975,696; Nov. 15; Sp. p. 3600; Gaz. vol. 160; p. 607.
Carbureter. R. W. Gallagher. No. 976,258; Nov. 22; Sp. p. 4825; Gaz. vol. 160; p. 824.
Carbureter. J. W. Walters. No. 976,322; Nov. 22; Sp. p. 4953; Gaz. vol. 160; p. 844.
Carbureter. S. Christofferson, N. T. Woods, and W. E. Jones. No. 976,344; Nov. 22; Sp. p. 5013; Gaz. vol. 160; p. 851.
Carbureter. H. M. Reichenbach. No. 976,692; Nov. 22; Sp. p. 5735; Gaz. vol. 160; p. 971.
Carbureter. O. C. Kreis, Jr. No. 976,813; Nov. 22; Sp. p. 5993; Gaz. vol. 160; p. 1013.
Carbureter. B. Ivor. No. 976,881; Nov. 29; Sp. p. 6161; Gaz. vol. 160; p. 1062.
Carbureter. J. N. Petersen and W. F. Pettit. No. 976,911; Nov. 29; Sp. p. 6229; Gaz. vol. 160; p. 1072.
Carbureter. B. Rebourg. No. 977,044; Nov. 29; Sp. p. 6554; Gaz. vol. 160; p. 1119.
Carbureter. P. M. Blom. No. 977,066; Nov. 29; Sp. p. 6595; Gaz. vol. 160; p. 1126.
Carbureter. C. A. Marrder. No. 977,813; Dec. 6; Sp. p. 857; Gaz. vol. 161; p. 135.
Carbureter. C. E. Page. No. 977,831; Dec. 6; Sp. p. 896; Gaz. vol. 161; p. 141.
Carbureter. D. M. Tilden. No. 978,076; Dec. 6; Sp. p. 1405; Gaz. vol. 161; p. 226.
Carbureter. B. O. Smith. No. 978,787; Dec. 13; Sp. p. 2955; Gaz. vol. 161; p. 499.
Carbureter. R. W. Shaw. No. 978,947; Dec. 20; Sp. p. 3280; Gaz. vol. 161; p. 581.
Carbureter. J. Peterson. No. 979,555; Dec. 27; Sp. p. 4616; Gaz. vol. 161; p. 812.
Carbureter. E. J. Proehl. No. 979,700; Dec. 27; Sp. p. 4919; Gaz. vol. 161; p. 862.
Carbureter. D. H. Haywood. No. 979,761; Dec. 27; Sp. p. 5074; Gaz. vol. 161; p. 883.
Carbureter. E. F. White. No. 979,907; Dec. 27; Sp. p. 5395; Gaz. vol. 161; p. 932.
Carbureter. J. G. Willet. No. 979,908; Dec. 27; Sp. p. 5397; Gaz. vol. 161; p. 933.
Carbureter and controller for internal-combustion engines. J. L. Tate. No. 954,359; Apr. 5; Sp. p. 1407; Gaz. vol. 153; p. 234.
Carbureter and vaporizer for internal-combustion engines. A. Westmacott. No. 976,237; Nov. 22; Sp. p. 4761; Gaz. vol. 160; p. 816.
Carbureter, Explosive-engine. G. J. Mayer. No. 967,407; Aug. 16; Sp. p. 3373; Gaz. vol. 157; p. 581.
Carbureter, Floatless. M. C. Bright. No. 956,882; May 3; Sp. p. 837; Gaz. vol. 154; p. 832.
Carbureter for combustion-engines. R. E. Krause. No. 948,612; Feb. 8; Sp. p. 1756; Gaz. vol. 151; p. 304.
Carbureter for gas-engines. L. C. Gerken. No. 970,916; Sept. 20; Sp. p. 3793; Gaz. vol. 158; p. 648.
Carbureter for internal-combustion engines. F. R. Davis. No. 970,429; Sept. 13; Sp. p. 2720; Gaz. vol. 158; p. 459.
Carbureter for internal-combustion engines or motors. A. Barker. No. 979,409; Dec. 27; Sp. p. 4300; Gaz. vol. 161; p. 762.
Carbureter-heater. C. Fox. No. 964,410; July 12; Sp. p. 2974; Gaz. vol. 156; p. 491.
Carbureters, Air-controlling mechanism for. J. M. Dayton. No. 976,558; Nov. 22; Sp. p. 5482; Gaz. vol. 160; p. 926.
Carbureters, Air-intake for. L. M. Fuller. No. 971,034; Sept. 27; Sp. p. 4038; Gaz. vol. 158; p. 715.
Carbureters, Triple auxiliary air-valve for. V. H. Donnelly, H. B. Koessler, and J. T. Weinzierl. No. 977,377; Nov. 29; Sp. p. 7270; Gaz. vol. 160; p. 1234.
Carbureting apparatus. F. B. Hill and G. J. W. Westwood. No. 947,639; Jan. 25; Sp. p. 5877; Gaz. vol. 150; p. 975.
Carbureting apparatus. N. W. Pill. No. 950,825; Mar. 1; Sp. p. 784; Gaz. vol. 152; p. 125.
Carbureting apparatus. A. Grandjean. No. 953,606; Mar. 29; Sp. p. 6514; Gaz. vol. 152; p. 1164.
Carbureting apparatus. R. C. Dawson. No. 956,048; Apr. 26; Sp. p. 5105; Gaz. vol. 153; p. 901.
Carbureting apparatus. G. Johnson. No. 959,350; May 24; Sp. p. 6338; Gaz. vol. 154; p. 1060.
Carbureting apparatus. F. Ostermayer. No. 970,102; Sept. 13; Sp. p. 2063; Gaz. vol. 158; p. 350.
Carbureting apparatus. C. M. Kemp. No. 976,885; Nov. 29; Sp. p. 6174; Gaz. vol. 160; p. 1063.
Carbureting-machine, Automatic. J. F. Becker. No. 949,140; Feb. 15; Sp. p. 2868; Gaz. vol. 151; p. 507.

Card and garment holder. H. J. Bell. No. 948,840; Feb. 8; Sp. p. 2251; Gaz. vol. 151; p. 382.
Card and photo holder. C. M. Whitmore. No. 962,397; June 21; Sp. p. 4515; Gaz. vol. 155; p. 779.
Card-case. A. Schickerling. No. 976,605; Nov. 22; Sp. p. 5575; Gaz. vol. 160; p. 943.
Card-case, Roller. E. R. Sheppard. No. 971,319; Sept. 27; Sp. p. 4619; Gaz. vol. 158; p. 808.
Card, Catalogue-. W. B. Mehl. No. 968,065; Aug. 23; Sp. p. 4741; Gaz. vol. 157; p. 825.
Card-clothing, &c., Apparatus for hardening the teeth of. L. C. Schneider. No. 958,326; May 17; Sp. p. 4220; Gaz. vol. 154; p. 689.
Card-cutting machine. W. Greeven. No. 957,052; May 3; Sp. p. 1186; Gaz. vol. 154; p. 188.
Card-cutting machine, Jacquard-. J. Schull. No. 960,118; May 31; Sp. p. 8007; Gaz. vol. 154; p. 1345.
Card-dealing machine. R. A. Berger. No. 955,044; Apr. 12; Sp. p. 2932; Gaz. vol. 153; p. 497.
Card, Hand-. C. F. Beckwith. No. 976,141; Nov. 22; Sp. p. 4510; Gaz. vol. 160; p. 782.
Card-holder. W. H. Rouse. No. 961,801; June 21; Sp. p. 3220; Gaz. vol. 155; p. 578.
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Card indicator, Continuous-. A. P. Kinney. No. 951,131; Mar. 8; Sp. p. 1357; Gaz. vol. 152; p. 247.
Card-machines, Automatic winding means for. F. A. and A. Northcutt. No. 966,351; Aug. 2; Sp. p. 1050; Gaz. vol. 157; p. 169.
Card or ticket holder. F. F. Schmidt. No. 963,814; July 12; Sp. p. 1758; Gaz. vol. 156; p. 291.
Card-playing device. F. E. Iorio. No. 974,970; Nov. 8; Sp. p. 2041; Gaz. vol. 160; p. 333.
Card, Playing or game. W. W. Russell. No. 957,105; May 3; Sp. p. 1296; Gaz. vol. 154; p. 206.
Card-punching machine, Jacquard-. J. Schull. No. 960,117; May 31; Sp. p. 8002; Gaz. vol. 154; p. 1345.
Card-punching machine, Jacquard-. R. Zahn. No. 965,056; July 19; Sp. p. 4461; Gaz. vol. 156; p. 743.
Card-rack. H. B. Rose. No. 947,190; Jan. 18; Sp. p. 4810; Gaz. vol. 150; p. 793.
Card-record for manufacturing purposes. H. Zimmerman. No. 945,897; Jan. 11; Sp. p. 1993; Gaz. vol. 150; p. 330.
Card system. N. L. Mêlançon. No. 948,235; Feb. 1; Sp. p. 931; Gaz. vol. 151; p. 153.
Card system. J. J. Vogeli. No. 958,337; May 17; Sp. p. 4245; Gaz. vol. 154; p. 692.
Card, View-. H. Becker. No. 953,508; Mar. 29; Sp. p. 6309; Gaz. vol. 152; p. 1131.
Cards, Device for reflecting the concealed sides of. W. T. Peckham. No. 958,762; May 24; Sp. p. 5090; Gaz. vol. 154; p. 860.
Cards, Game-. G. S. Parker. No. 952,939; Mar. 22; Sp. p. 5068; Gaz. vol. 152; p. 910.
Cards, Head for punching five and six frame brussel-. W. K. Caldwell. No. 959,200; May 24; Sp. p. 6039; Gaz. vol. 154; p. 1009.
Cards, Machine for the production of jacquard-. R. T. Carbonell. No. 979,128; Dec. 20; Sp. p. 3730; Gaz. vol. 161; p. 646.
Cards or sheets, Feeding mechanism for. F. M. Spurr. No. 978,231; Dec. 13; Sp. p. 1768; Gaz. vol. 161; p. 310.
Cards, Playing-. W. Shakespeare, Jr. No. 960,205; May 31; Sp. p. 8173; Gaz. vol. 154; p. 1375.
Cards, Playing-. D. S. Frackelton. No. 963,429; July 5; Sp. p. 934; Gaz. vol. 156; p. 139.
Cards, Playing-. W. A. Hammett. No. 972,371; Oct. 11; Sp. p. 1852; Gaz. vol. 159; p. 325.
Cards, Playing-. F. G. McPherson. No. 977,117; Nov. 29; Sp. p. 6722; Gaz. vol. 160; p. 1144.
Cards, Playing-. R. W. Bumstead. No. 979,642; Dec. 27; Sp. p. 4807; Gaz. vol. 161; p. 843.
Carding-machine. J. J. Henderson. No. 949,271; Feb. 15; Sp. p. 3127; Gaz. vol. 151; p. 551.
Carding-machine. W. Sullivan. No. 976,756; Nov. 22; Sp. p. 5884; Gaz. vol. 160; p. 993.
Carding-machine feed-roll stop-motion. O. J. Whitehead and F. J. Crocker. No. 966,971; Aug. 9; Sp. p. 2453; Gaz. vol. 157; p. 403.
Carding-machine feeding device. E. V. Bates. No. 977,502; Dec. 6; Sp. p. 175; Gaz. vol. 161; p. 29.
Carding-machines, Doffer or knocking-off apparatus for the doffer rollers of. R. Koref. No. 966,565; Aug. 9; Sp. p. 1580; Gaz. vol. 157; p. 269.
Carding mechanism. G. F. Geb. No. 978,998; Dec. 20; Sp. p. 3407; Gaz. vol. 161; p. 599.
Carline, Metallic. E. C. Covert. No. 976,435; Nov. 22; Sp. p. 5216; Gaz. vol. 160; p. 885.
Carnation-support. H. J. Lozier. No. 949,239; Feb. 15; Sp. p. 3053; Gaz. vol. 151; p. 540.
Carousel. C. Figge and A. Zebro. No. 973,184; Oct. 18; Sp. p. 3723; Gaz. vol. 159; p. 636.
Carousel. A. G. Reynolds. No. 974,599; Nov. 1; Sp. p. 1191; Gaz. vol. 160; p. 182.
Carpenter's brace. A. B. Schucker. No. 978,066; Dec. 6; Sp. p. 1384; Gaz. vol. 161; p. 222.
Carpenter's tool. J. A. Swenson. No. 978,509; Dec. 13; Sp. p. 2357; Gaz. vol. 161; p. 407.
Carpenter's tool, Combined. U. Tuomi. No. 948,777; Feb. 8; Sp. p. 2122; Gaz. vol. 151; p. 361.
Carpet and rug fastener. S. B. Donchian. No. 977,857; Dec. 6; Sp. p. 954; Gaz. vol. 161; p. 150.
Carpet-beater. J. H. Mangan. No. 948,592; Feb. 8; Sp. p. 1720; Gaz. vol. 151; p. 298.
Carpet-beater. H. L. Schuler. No. 949,092; Feb. 15; Sp. p. 2761; Gaz. vol. 151; p. 491.
Carpet-beater. A. E. Bennett and J. H. Hunter. No. 973,847; Oct. 25; Sp. p. 5106; Gaz. vol. 159; p. 887.
Carpet-cleaning machine. A. S. Horlacher and H. C. Baase. No. 970,228; Sept. 13; Sp. p. 2335; Gaz. vol. 158; p. 393.
Carpet-cleaning machines, Pumping mechanism for. W. Schussler. No. 948,254; Feb. 1; Sp. p. 968; Gaz. vol. 151; p. 159.
Carpet-fastener. F. H. West. No. 950,606; Mar. 1; Sp. p. 301; Gaz. vol. 152; p. 49.
Carpet-fastener. H. Weinstock. No. 959,277; May 24; Sp. p. 6195; Gaz. vol. 154; p. 1135.
Carpet fastener, Stair-. H. C. Adams. No. 952,401; Mar. 15; Sp. p. 3898; Gaz. vol. 152; p. 698.
Carpet fastener, Stair-. W. Nice, Jr. No. 953,433; Mar. 29; Sp. p. 6148; Gaz. vol. 152; p. 1103.
Carpet fastener, Stair-. C. W. Kirsch. No. 958,138; May 17; Sp. p. 3686; Gaz. vol. 154; p. 622.
Carpet-fastening. C. F. Craig. No. 955,853; Apr. 26; Sp. p. 4686; Gaz. vol. 153; p. 833.
Carpet-holder. H. J. Boyer. No. 965,365; July 26; Sp. p. 5112; Gaz. vol. 156; p. 877.
Carpet lining and pad, Stair-. J. H. Beale. No. 971,819; Oct. 4; Sp. p. 640; Gaz. vol. 159; p. 113.
Carpet-stretcher. E. H. Wegner. No. 953,877; Apr. 5; Sp. p. 386; Gaz. vol. 153; p. 70.
Carpet-stretcher. W. C. Burke. No. 961,679; June 14; Sp. p. 2970; Gaz. vol. 155; p. 514.
Carpet-stretcher. A. F. McBeth. No. 965,118; July 19; Sp. p. 4576; Gaz. vol. 156; p. 763.
Carpet-stretcher. W. H. Metcalfe. No. 977,210; Nov. 29; Sp. p. 6928; Gaz. vol. 160; p. 1177.
Carpet-sweeper. G. Manthey. No. 962,372; June 21; Sp. p. 4469; Gaz. vol. 155; p. 771.
Carpet-sweeper brush-cleaning device. H. S. Armor and L. C. Collner. No. 949,694; Feb. 15; Sp. p. 3971; Gaz. vol. 151; p. 692.
Carpet-sweeper handle attachment. J. M. Spangler. No. 956,215; Apr. 26; Sp. p. 5500; Gaz. vol. 153; p. 959.
Carpet-sweepers, Detachable brush-guard for. J. M. Spangler. No. 974,304; Nov. 1; Sp. p. 507; Gaz. vol. 160; p. 75.
Carriage adjustable runner, Baby-. H. I. Martin. No. 967,405; Aug. 16; Sp. p. 3371; Gaz. vol. 157; p. 581.
Carriage and sled, Combined. W. W. Vicks. No. 950,583; Mar. 1; Sp. p. 251; Gaz. vol. 152; p. 41.
Carriage and sleigh, Combined baby-. D. H. Huff. No. 954,631; Apr. 12; Sp. p. 2005; Gaz. vol. 153; p. 355.
Carriage, Baby-. E. Plourde. No. 958,307; May 17; Sp. p. 4173; Gaz. vol. 154; p. 681.
Carriage-bow-repairing device. D. W. Wilson. No. 952,719; Mar. 22; Sp. p. 4617; Gaz. vol. 152; p. 836.
Carriage-bows, Shock-absorber for. E. W. Bedinger, Jr. No. 953,190; Mar. 29; Sp. p. 5625; Gaz. vol. 152; p. 1022.
Carriage, Cableway-. S. A. Cooney. No. 972,825; Oct. 18; Sp. p. 2851; Gaz. vol. 159; p. 509.
Carriage, Child's. J. L. Goldstein. No. 968,763; Aug. 30; Sp. p. 6259; Gaz. vol. 157; p. 1093.
Carriage, Collapsible baby-. A. W. Loshbough. No. 947,832; Feb. 1; Sp. p. 90; Gaz. vol. 151; p. 19.
Carriage, Collapsible baby-. A. W. Loshbough. No. 948,070; Feb. 1; Sp. p. 610; Gaz. vol. 151; p. 98.
Carriage-curtain fastener. F. S. Carr. No. 965,986; Aug. 2; Sp. p. 304; Gaz. vol. 157; p. 50.
Carriage-curtain fastener. W. Esty. No. 976,057; Nov. 15; Sp. p. 4304; Gaz. vol. 160; p. 730.
Carriage-curtains, Appliance for cutting prong-receiving slits in. F. S. Carr. No. 945,445; Jan. 4; Sp. p. 942; Gaz. vol. 150; p. 148.
Carriage-curtains, &c., Means for forming socket-holes in. F. S. Carr. No. 949,883; Feb. 22; Sp. p. 4432; Gaz. vol. 151; p. 792.
Carriage-door track. E. Barth. No. 950,089; Feb. 22; Sp. p. 4915; Gaz. vol. 151; p. 865.
Carriage-feed cylinder-mounting. C. P. Myer. No. 975,784; Nov. 15; Sp. p. 3781; Gaz. vol. 160; p. 637.
Carriage, House-moving. D. Stout. No. 955,223; Apr. 19; Sp. p. 3300; Gaz. vol. 153; p. 590.
Carriage-iron. L. Kuchenbecker. No. 951,008; Mar. 1; Sp. p. 1122; Gaz. vol. 152; p. 182.
Carriage pusher, Baby-. H. Alban. No. 950,216; Feb. 22; Sp. p. 5178; Gaz. vol. 151; p. 909.
Carriage-seat, Extension. I. A. Sturtevant. No. 950,195; Feb. 22; Sp. p. 5133; Gaz. vol. 151; p. 901.
Carriage-top. G. W. Hedrick. No. 955,512; Apr. 19; Sp. p. 3919; Gaz. vol. 153; p. 687.
Carriage-top. W. C. Mitchell and G. A. Harrison. No. 966,037; Aug. 2; Sp. p. 417; Gaz. vol. 157; p. 67.
Carriage-top rest. R. L. Notman. No. 959,790; May 31; Sp. p. 7268; Gaz. vol. 154; p. 1231.
Carriage-top rest. R. L. Notman. No. 959,791; May 31; Sp. p. 7269; Gaz. vol. 154; p. 1232.
Carriage-tops, Resilient support for. C. L. Barnum. No. 951,520; Mar. 8; Sp. p. 2152; Gaz. vol. 152; p. 373.

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Carriage-windows, Means for opening and closing. J. Altrichter. No. 948,603; Feb. 8; Sp. p. 1743; Gaz. vol. 151; p. 301.
Carriages and vehicles, Child's seat for. E. A. Thomas. No. 946,520; Jan. 11; Sp. p. 3411; Gaz. vol. 150; p. 546.
Carrier: *See* Automatic carrier; Automobile baggage-carrier; Banana-carrier; Battery-carrier; Bicycle-carrier; Bundle-carrier; Can-carrier; Cash-carrier; Cash and package carrier; Change-carrier; Corn-shock carrier; Curtain-pole carrier; Die-carrier; Display-carrier; Dump-carrier; Egg-carrier; Elevated carrier; Fire-hose carrier; Gravity-carrier; Hay-carrier; Hose-carrier; Lantern-carrier; Lantern-slide carrier; Litter-carrier; Luggage-carrier; Mail-carrier; Mail-pouch carrier; Molder's-flask carrier; Overhead carrier; Oyster-carrier; Parcel-carrier; Plant-carrier; Pneumatic-despatch-tube carrier; Pneumatic-despatch-tube-apparatus carrier; Roll-carrier; Sewing-machine shuttle-carrier; Stereopticon-carrier; Target-trap carrier; Tire-carrier; Trace-carrier; Traveling-bag or luggage carrier; Twine-carrier; Type-carrier; Umbrella-carrier; Wing-carrier.
Carrier. J. C. H. Gerst. No. 945,513; Jan. 4; Sp. p. 1097; Gaz. vol. 150; p. 169.
Carrier. L. F. Haddon. No. 959,733; May 31; Sp. p. 7144; Gaz. vol. 154; p. 1212.
Carrier. S. C. Gardner, C. Chase, and C. V. Kent. No. 960,534; June 7; Sp. p. 605; Gaz. vol. 155; p. 98.
Carrier for compressed fibrous materials. C. H. Merry. No. 974,904; Nov. 8; Sp. p. 1871; Gaz. vol. 160; p. 309.
Carrier-making machine, Bundle-. E. H. Shepard. No. 970,269; Sept. 13; Sp. p. 2421; Gaz. vol. 158; p. 408.
Carrier-tripping device, Elevated-. A. C. Smith. No. 967,846; Aug. 16; Sp. p. 4255; Gaz. vol. 157; p. 728.
Carriers, Automatic dumping device for elevated. J. D. Austin. No. 973,247; Oct. 18; Sp. p. 3838; Gaz. vol. 159; p. 656.
Carriers, Elevated track for. J. C. Fitzgerald. No. 954,275; Apr. 5; Sp. p. 1223; Gaz. vol. 153; p. 205.
Carriers, Elevated-track system for overhead. J. C. Fitzgerald. No. 970,032; Sept. 13; Sp. p. 1928; Gaz. vol. 158; p. 327.
Carriers, Stop and rebounder for elevated. J. C. Fitzgerald. No. 970,031; Sept. 13; Sp. p. 1926; Gaz. vol. 158; p. 326.
Carriers, Stop for overhead. A. H. Neller. No. 945,577; Jan. 4; Sp. p. 1232; Gaz. vol. 150; p. 191.
Carrying apparatus. A. C. Smith. No. 945,625; Jan. 4; Sp. p. 1327; Gaz. vol. 150; p. 206.
Carrying case and stand, Folding. G. L. Kohn. No. 979,075; Dec. 20; Sp. p. 3570; Gaz. vol. 161; p. 624.
Carrying-register. S. C. Lauber. No. 972,546; Oct. 11; Sp. p. 2247; Gaz. vol. 159; p. 388.
Carrying system, Elevated. J. N. Anderson. No. 969,437; Sept. 6; Sp. p. 607; Gaz. vol. 158; p. 96.
Cart. J. H. Rye. No. 963,252; July 5; Sp. p. 584; Gaz. vol. 156; p. 81.
Cart. M. C. Myers. No. 963,720; July 5; Sp. p. 1518; Gaz. vol. 156; p. 236.
Cart. R. D. Wirt. No. 978,344; Dec. 13; Sp. p. 2011; Gaz. vol. 161; p. 350.
Cart, Breaking-. J. F. Whitman. No. 967,473; Aug. 16; Sp. p. 3504; Gaz. vol. 157; p. 603.
Cart, Collapsible. J. Weber, Jr. No. 972,740; Oct. 11; Sp. p. 2679; Gaz. vol. 159; p. 454.
Cart, Concrete-. C. A. Baker. No. 970,457; Sept. 20; Sp. p. 2787; Gaz. vol. 158; p. 489.
Cart, Dumping hopper-. P. Haerst. No. 946,430; Jan. 11; Sp. p. 3203; Gaz. vol. 150; p. 516.
Cart, Hoisting-. N. Slavin. No. 956,205; Apr. 26; Sp. p. 5463; Gaz. vol. 153; p. 956.
Cart support, Hand-. C. E. Peckham. No. 947,454; Jan. 25; Sp. p. 5454; Gaz. vol. 150; p. 912.
Carton. E. N. Gilfillan. No. 961,491; June 14; Sp. p. 2588; Gaz. vol. 155; p. 451.
Carton. M. E. Van Luven. No. 968,294; Aug. 23; Sp. p. 5250; Gaz. vol. 157; p. 904.
Carton. R. Vaughan. No. 968,717; Aug. 30; Sp. p. 6163; Gaz. vol. 157; p. 1077.
Carton. F. W. Handschy. No. 970,220; Sept. 13; Sp. p. 2322; Gaz. vol. 158; p. 390.
Carton, Folding. J. H. Carter. No. 969,087; Aug. 30; Sp. p. 6902; Gaz. vol. 157; p. 1202.
Carton folding and gluing machine. F. J. P. Kuhlmann. No. 956,108; Apr. 26; Sp. p. 5239; Gaz. vol. 153; p. 921.
Carton-machine. E. N. Gilfillan and E. Schinscholl. No. 964,232; July 12; Sp. p. 2624; Gaz. vol. 156; p. 432.
Cartridge. G. E. Loeble. No. 953,850; Apr. 5; Sp. p. 341; Gaz. vol. 153; p. 60.
Cartridge. C. O. Person. No. 955,680; Apr. 19; Sp. p. 4301; Gaz. vol. 153; p. 744.
Cartridge. G. Loeble. No. 963,911; July 12; Sp. p. 1970; Gaz. vol. 156; p. 324.
Cartridge-adapter. J. E. Worrell. No. 967,098; Aug. 9; Sp. p. 2719; Gaz. vol. 157; p. 447.
Cartridge-bandoleer, gun-rest, shoulder-strap, and recoil-pad, Combined. R. C. West. No. 960,058; May 31; Sp. p. 7902; Gaz. vol. 154; p. 1327.
Cartridge-belt. W. C. Fisher. No. 970,905; Sept. 20; Sp. p. 3775; Gaz. vol. 158; p. 644.
Cartridge-belt. W. C. Fisher. No. 970,906; Sept. 20; Sp. p. 3776; Gaz. vol. 158; p. 645.
Cartridge-belts, Making. W. C. Fisher. No. 962,331; June 21; Sp. p. 4390; Gaz. vol. 155; p. 758.
Cartridge, Blank. L. B. Purcell. No. 965,745; July 26; Sp. p. 5928; Gaz. vol. 156; p. 1009.
Cartridge, Blasting-. G. M. Peters. No. 969,186; Sept. 6; Sp. p. 93; Gaz. vol. 158; p. 15.
Cartridge-filler. R. French. No. 970,318; Sept. 13; Sp. p. 2513; Gaz. vol. 158; p. 424.
Cartridge for reduced shot. F. Hartmann. No. 976,459; Nov. 22; Sp. p. 5260; Gaz. vol. 160; p. 893.
Cartridge, Fuel-. T. D. Bausher. No. 969,151; Sept. 6; Sp. p. 3; Gaz. vol. 158; p. 3.
Cartridge-fuse. A. F. Daum. No. 961,716; June 14; Sp. p. 3037; Gaz. vol. 155; p. 526.
Cartridge-shell. H. E. and L. A. Sherman. No. 956,201; Apr. 26; Sp. p. 5456; Gaz. vol. 153; p. 955.
Cartridge-shell. A. Loeb. No. 957,071; May 3; Sp. p. 1430; Gaz. vol. 154; p. 229.
Cartridge-shell-feeding machine. H. D. Hodge. No. 971,999; Oct. 4; Sp. p. 1081; Gaz. vol. 159; p. 181.
Cartridge-shells, Manufacturing. C. A. Bailey. No. 977,497; Dec. 6; Sp. p. 152; Gaz. vol. 161; p. 26.
Cartridge, Shot-. E. P. Follett. No. 974,369; Nov. 1; Sp. p. 661; Gaz. vol. 160; p. 99.
Carving figures in relief and intaglio, Machine for. H. M. Albee. No. 960,765; June 7; Sp. p. 1069; Gaz. vol. 155; p. 179.
Carving-machine. D. B. Salstrom. No. 957,716; May 10; Sp. p. 2574; Gaz. vol. 154; p. 446.
Carving-machine. D. B. Salstrom. No. 957,717; May 10; Sp. p. 2578; Gaz. vol. 154; p. 446.
Case: *See* Blacking-case; Book and file case; Bottle-case; Bottle-carrying case; Card-case; Carrying-case; Casket-case; Chain-case; Cigar-case; Cigarette-case; Compartment-case; Display-case; Egg-case; File-case; Filing-case; Fireproof jewel-case; Fruit-case; Index-case; Knockdown case; Match-case; Meat-case; Memorandum-case; Nail or screw case; Needle-case; Packing-case; Packing and display case; Pile-case; Plunger-case; Pocket-case; Prescription-case; Razor-case; Sample-case; Sanitary case; Seed-case; Sewing-machine spool-case; Shaving-appliance case; Shipping-case; Show-case; Suit-case; Supply-case; Syringe-case; Thermometer-case; Ticket-case; Tire-case; Tool-case; Transferring-case; Traveling-case; Type-case; Type-setting case; Violin-case; Watch-holding case.
Case-filler. S. M. Heulings. No. 952,246; Mar. 15; Sp. p. 3593; Gaz. vol. 152; p. 647.
Case-hardening material. H. Rodman. No. 949,446; Feb. 15; Sp. p. 3500; Gaz. vol. 151; p. 611.
Case-hardening or cementing. H. Rodman. No. 949,444; Feb. 15; Sp. p. 3499; Gaz. vol. 151; p. 611.
Case-hardening or cementing material. H. Rodman. No. 949,448; Feb. 15; Sp. p. 3502; Gaz. vol. 151; p. 612.
Case-hardening or cementing material. H. Rodman. No. 949,549; Feb. 15; Sp. p. 3710; Gaz. vol. 151; p. 645.
Casement-fastener. G. L. Fisher. No. 959,494; May 31; Sp. p. 6648; Gaz. vol. 154; p. 1133.
Casement, sash, door, &c. E. Pellett. No. 977,470; Dec. 6; Sp. p. 91; Gaz. vol. 161; p. 17.
Casing and tubing hook. P. J. Townsell. No. 972,416; Oct. 11; Sp. p. 1953; Gaz. vol. 159; p. 342.
Casing-elevator. F. S. Barkelew. No. 960,239; May 31; Sp. p. 8242; Gaz. vol. 154; p. 1387.
Casing-perforator. J. C. Swan. No. 973,994; Oct. 25; Sp. p. 5416; Gaz. vol. 159; p. 939.
Casing, Protective. B. Volkmar. No. 962,680; June 28; Sp. p. 5155; Gaz. vol. 155; p. 901.
Casing, Puncture-proof. W. M. English and H. M. Lichtenstein. No. 952,072; Mar. 15; Sp. p. 3264; Gaz. vol. 152; p. 588.
Casing-spear. C. C. Heeter. No. 976,651; Nov. 22; Sp. p. 5673; Gaz. vol. 160; p. 959.
Casing-wrench, Combination. W. L. Dunn. No. 958,698; May 17; Sp. p. 4944; Gaz. vol. 154; p. 812.
Casein compound, Indurated. B. B. Goldsmith. No. 964,964; July 19; Sp. p. 4272; Gaz. vol. 156; p. 713.
Casein derivatives or compounds and making same. R. Tambach. No. 967,584; Aug. 16; Sp. p. 3733; Gaz. vol. 157; p. 642.
Cash and autographic register. J. A. Werner. No. 975,489; Nov. 15; Sp. p. 3142; Gaz. vol. 160; p. 537.
Cash and package carrier. H. M. Weaver. No. 977,059; Nov. 29; Sp. p. 6581; Gaz. vol. 160; p. 1123.
Cash-box. H. Hirt. No. 964,021; July 12; Sp. p. 2197; Gaz. vol. 156; p. 361.
Cash-carrier, Pneumatic. W. H. Upham. No. 947,872; Feb. 1; Sp. p. 212; Gaz. vol. 151; p. 33.
Cash controlling and registering and change-returning apparatus. E. Janik. No. 952,526; Mar. 22; Sp. p. 4176; Gaz. vol. 152; p. 768.
Cash-register. T. Carney. No. 948,368; Feb. 8; Sp. p. 1225; Gaz. vol. 151; p. 223.
Cash-register. J. P. Cleal. No. 949,884; Feb. 22; Sp. p. 4433; Gaz. vol. 151; p. 793.
Cash-register. T. Carroll. No. 951,266; Mar. 8; Sp. p. 1620; Gaz. vol. 152; p. 289.
Cash-register. T. Carroll. No. 951,302; Mar. 8; Sp. p. 1704; Gaz. vol. 152; p. 301.
Cash-register. T. Carroll. No. 951,303; Mar. 8; Sp. p. 1709; Gaz. vol. 152; p. 302.

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Cash-register. G. A. Wineman. No. 952,554; Mar. 22; Sp. p. 4244; Gaz. vol. 152; p. 779.
Cash-register. E. Van Camp. No. 953,649; Mar. 29; Sp. p. 6595; Gaz. vol. 152; p. 1178.
Cash-register. R. Treber. No. 954,363; Apr. 5; Sp. p. 1414; Gaz. vol. 153; p. 235.
Cash-register. F. H. Trevellian. No. 955,016; Apr. 12; Sp. p. 2878; Gaz. vol. 153; p. 488.
Cash-register. F. H. Trevellian. No. 957,918; May 17; Sp. p. 3028; Gaz. vol. 154; p. 543.
Cash-register. A. G. Carlson. No. 959,840; May 31; Sp. p. 7379; Gaz. vol. 154; p. 1250.
Cash-register. J. H. McCormick. No. 960,376; June 7; Sp. p. 280; Gaz. vol. 155; p. 48.
Cash-register. G. H. Wolff. No. 960,759; June 7; Sp. p. 1047; Gaz. vol. 155; p. 177.
Cash-register. C. A. Lundgren. No. 961,871; June 21; Sp. p. 3401; Gaz. vol. 155; p. 601.
Cash-register. C. A. Lundgren. No. 963,785; July 12; Sp. p. 1681; Gaz. vol. 156; p. 281.
Cash-register. F. K. Fassett. No. 965,509; July 26; Sp. p. 5420; Gaz. vol. 156; p. 927.
Cash-register. T. Carroll. No. 967,496; Aug. 16; Sp. p. 3557; Gaz. vol. 157; p. 611.
Cash-register. F. C. Osborn. No. 969,113; Aug. 30; Sp. p. 6958; Gaz. vol. 157; p. 1211.
Cash-register. R. H. Riddle. No. 969,300; Sept. 6; Sp. p. 312; Gaz. vol. 158; p. 51.
Cash-register. J. P. Cleal. No. 970,798; Sept. 20; Sp. p. 3567; Gaz. vol. 158; p. 610.
Cash-register. W. I. Spangler. No. 973,577; Oct. 25; Sp. p. 4534; Gaz. vol. 159; p. 792.
Cash-register. T. Carroll. No. 973,754; Oct. 25; Sp. p. 4907; Gaz. vol. 159; p. 854.
Cash-register. E. S. Church. No. 974,952; Nov. 8; Sp. p. 1987; Gaz. vol. 160; p. 327.
Cash-register. W. H. Muzzy. No. 975,061; Nov. 8; Sp. p. 2230; Gaz. vol. 160; p. 363.
Cash-register. R. Treber. No. 975,735; Nov. 15; Sp. p. 3678; Gaz. vol. 160; p. 620.
Cash-register. T. Carroll. No. 977,509; Dec. 6; Sp. p. 186; Gaz. vol. 161; p. 31.
Cash-register. J. P. Cleal. No. 977,511; Dec. 6; Sp. p. 202; Gaz. vol. 161; p. 31.
Cash-register. W. H. Muzzy. No. 977,532; Dec. 6; Sp. p. 270; Gaz. vol. 161; p. 39.
Cash-register, Electric. J. P. Cleal. No. 945,912; Jan. 11; Sp. p. 2020; Gaz. vol. 150; p. 336.
Cash-register, Pocket. K. Schaub. No. 952,949; Mar. 22; Sp. p. 5091; Gaz. vol. 152; p. 914.
Cash-register system. P. G. Warnock. No. 955,621; Apr. 19; Sp. p. 4159; Gaz. vol. 153; p. 724.
Cash-registers, Electrical announcing attachment for. T. J. Sullivan. No. 979,353; Dec. 20; Sp. p. 4178; Gaz. vol. 161; p. 721.
Cash-registers, Indicating attachment for. C. W. Page. No. 978,635; Dec. 13; Sp. p. 2654; Gaz. vol. 161; p. 451.
Cash-registering, change-making, and recording and accounting machine. M. P. Morrison. No. 977,393; Nov. 29; Sp. p. 7294; Gaz. vol. 160; p. 1239.
Cask-making machine. J. Gilmour. No. 962,210; June 21; Sp. p. 4132; Gaz. vol. 155; p. 717.
Cask or barrel, Metal. J. J. Wolf. No. 964,080; July 12; Sp. p. 2321; Gaz. vol. 156; p. 382.
Casket, Burial-. A. R. Lerro. No. 964,439; July 12; Sp. p. 3027; Gaz. vol. 156; p. 500.
Casket, Burial-. W. E. Swartz. No. 969,421; Sept. 6; Sp. p. 579; Gaz. vol. 158; p. 92.
Casket, Canopy-. J. Melzer and H. J. Rademacher. No. 965,643; July 26; Sp. p. 5731; Gaz. vol. 156; p. 974.
Casket-case. W. Pye and L. D. Nourse. No. 976,213; Nov. 22; Sp. p. 4679; Gaz. vol. 160; p. 806.
Casket-covers, Catch for. G. C. Frazier. No. 952,796; Mar. 22; Sp. p. 4785; Gaz. vol. 152; p. 862.
Casket-handle. E. R. Sargent. No. 945,050; Jan. 4; Sp. p. 89; Gaz. vol. 150; p. 16.
Casket head-rest, Burial-. B. Stevens. No. 957,910; May 17; Sp. p. 3017; Gaz. vol. 154; p. 541.
Casket-top fastening. G. C. Frazier. No. 954,276; Apr. 5; Sp. p. 1230; Gaz. vol. 153; p. 205.
Caskets, Adjustable bottom for burial-. T. A. Lynch. No. 965,641; July 26; Sp. p. 5728; Gaz. vol. 156; p. 974.
Caskets and other articles, Handle for. E. R. Sargent. No. 964,562; July 19; Sp. p. 3358; Gaz. vol. 156; p. 574.
Caskets, &c., Fastening device for burial-. J. S. Muckle. No. 955,665; Apr. 19; Sp. p. 4274; Gaz. vol. 153; p. 739.
Cassava and producing alcohol therefrom, Treating. C. C. Moore, Jr. No. 977,465; Dec. 6; Sp. p. 77; Gaz. vol. 161; p. 15.
Cast-iron pipe. C. R. Schmidt. No. 950,578; Mar. 1; Sp. p. 243; Gaz. vol. 152; p. 40.
Cast spaces, Apparatus for reducing the length of. P. W. Druitt. No. 961,690; June 14; Sp. p. 2985; Gaz. vol. 155; p. 517.
Caster. W. Goldbach. No. 950,154; Feb. 22; Sp. p. 5038; Gaz. vol. 151; p. 886.
Caster. E. H. Humphrey. No. 955,162; Apr. 19; Sp. p. 3160; Gaz. vol. 153; p. 568.
Caster. N. Svenvig. No. 957,480; May 10; Sp. p. 2101; Gaz. vol. 154; p. 364.
Caster. G. W. Bent. No. 959,108; May 24; Sp. p. 5845; Gaz. vol. 154; p. 979.
Caster. C. E. Burnett. No. 962,308; June 21; Sp. p. 4343; Gaz. vol. 155; p. 750.
Caster. G. W. Bent. No. 966,788; Aug. 9; Sp. p. 2072; Gaz. vol. 157; p. 344.
Caster. M. B. Schenck and J. A. Johnson. No. 968,424; Aug. 23; Sp. p. 5502; Gaz. vol. 157; p. 948.
Caster. S. N. Olsen. No. 968,790; Aug. 30; Sp. p. 6313; Gaz. vol. 157; p. 1101.
Caster. G. C. Nickerson. No. 970,386; Sept. 13; Sp. p. 2639; Gaz. vol. 158; p. 445.
Caster and the like. J. Appleby. No. 967,152; Aug. 16; Sp. p. 2850; Gaz. vol. 157; p. 493.
Caster, Ball-. D. B. Hussey. No. 956,969; May 3; Sp. p. 1028; Gaz. vol. 154; p. 161.
Caster, Ball-. D. S. Carter. No. 957,303; May 10; Sp. p. 1748; Gaz. vol. 154; p. 306.
Caster, Ball-bearing. B. Turner. No. 967,085; Aug. 9; Sp. p. 2699; Gaz. vol. 157; p. 443.
Caster device for tubs, &c., Leg-lifting. W. W. Terriff. No. 970,860; Sept. 20; Sp. p. 3696; Gaz. vol. 158; p. 631.
Caster for operating-tables. A. Taubert. No. 950,545; Mar. 1; Sp. p. 171; Gaz. vol. 152; p. 29.
Caster for stoves and the like, Adjustable. W. H. Ward. No. 952,694; Mar. 22; Sp. p. 4556; Gaz. vol. 152; p. 828.
Caster for tubular legs for furniture. A. B. Diss. No. 965,879; Aug. 2; Sp. p. 64; Gaz. vol. 157; p. 13.
Caster, Furniture-. B. P. Kenyon. No. 972,871; Oct. 18; Sp. p. 2966; Gaz. vol. 159; p. 525.
Caster-holder. H. D. Penney. No. 962,461; June 28; Sp. p. 4689; Gaz. vol. 155; p. 828.
Caster, Roller-. W. Peet. No. 945,981; Jan. 11; Sp. p. 2168; Gaz. vol. 150; p. 361.
Caster-socket. B. P. Kenyon. No. 973,514; Oct. 25; Sp. p. 4413; Gaz. vol. 159; p. 771.
Caster, Stove-leg. A. C. Miller. No. 967,807; Aug. 16; Sp. p. 4169; Gaz. vol. 157; p. 715.
Caster tubular axle. B. P. Kenyon. No. 973,515; Oct. 25; Sp. p. 4414; Gaz. vol. 159; p. 771.
Caster-wheel. G. M. Williams and G. C. Greeno. No. 951,553; Mar. 8; Sp. p. 2220; Gaz. vol. 152; p. 385.
Caster-wheel mounting. J. Sharon. No. 953,492; Mar. 29; Sp. p. 6273; Gaz. vol. 152; p. 1125.
Casting anode plates, Machine for. R. Truswell. No. 974,541; Nov. 1; Sp. p. 1079; Gaz. vol. 160; p. 161.
Casting apparatus. A. Jameson. No. 950,106; Feb. 22; Sp. p. 4943; Gaz. vol. 151; p. 870.
Casting apparatus. J. W. Latcher. No. 950,637; Mar. 1; Sp. p. 371; Gaz. vol. 152; p. 60.
Casting apparatus. D. W. Blair and F. L. Antisell. No. 951,299; Mar. 8; Sp. p. 1694; Gaz. vol. 152; p. 300.
Casting apparatus. G. H. Vining. No. 961,182; June 14; Sp. p. 1901; Gaz. vol. 155; p. 345.
Casting apparatus. F. T. Kitchen. No. 969,539; Sept. 6; Sp. p. 831; Gaz. vol. 158; p. 131.
Casting apparatus, Pipe-. F. Herbert. No. 972,107; Oct. 4; Sp. p. 1276; Gaz. vol. 159; p. 216.
Casting fluid metal, Art of and apparatus for. H. H. Doehler. No. 973,483; Oct. 25; Sp. p. 4339; Gaz. vol. 159; p. 760.
Casting ingots. W. H. Connell. No. 945,019; Jan. 4; Sp. p. 19; Gaz. vol. 150; p. 6.
Casting ingots. L. W. Southgate. No. 964,576; July 19; Sp. p. 3386; Gaz. vol. 156; p. 579.
Casting ingots. W. H. Connell. No. 971,832; Oct. 4; Sp. p. 670; Gaz. vol. 159; p. 118.
Casting lead pots and buckles and loading said buckles in said pots, Machine for. A. J. Meier. No. 963,164; July 5; Sp. p. 344; Gaz. vol. 156; p. 49.
Casting-machine. F. A. Carter. No. 964,212; July 12; Sp. p. 2576; Gaz. vol. 156; p. 425.
Casting-machine, Centrifugal. J. M. Allen. No. 971,957; Oct. 4; Sp. p. 998; Gaz. vol. 159; p. 166.
Casting machine, Ingot-. G. M. Clark, Jr. No. 946,721; Jan. 18; Sp. p. 3812; Gaz. vol. 150; p. 637.
Casting machine, Roller-cover-. A. Mattick. No. 968,175; Aug. 23; Sp. p. 5002; Gaz. vol. 157; p. 862.
Casting metal. C. H. Upson. No. 974,934; Nov. 8; Sp. p. 1943; Gaz. vol. 160; p. 320.
Casting metal bars, wires, and pipes. F. W. Winner. No. 950,884; Mar. 1; Sp. p. 890; Gaz. vol. 152; p. 142.
Casting metal, Manufacture of molds for. E. L. Bohl and R. Y. Barrows. No. 960,257; June 7; Sp. p. 28; Gaz. vol. 155; p. 8.
Casting-mold. J. K. Dimmick. No. 966,811; Aug. 9; Sp. p. 2131; Gaz. vol. 157; p. 352.
Casting molten material, Apparatus for. K. West. No. 964,722; July 19; Sp. p. 3787; Gaz. vol. 156; p. 630.
Casting non-ferric metals. F. J. Phillips. No. 977,546; Dec. 6; Sp. p. 305; Gaz. vol. 161; p. 45.
Casting under pressure small metal pieces, Apparatus for. B. Platschick. No. 970,949; Sept. 20; Sp. p. 3858; Gaz. vol. 158; p. 659.
Castings, Forming. C. B. McPhillips. No. 970,096; Sept. 13; Sp. p. 2052; Gaz. vol. 158; p. 349.
Castings, Introducing modifying elements into. F. G. Wright. No. 963,973; July 12; Sp. p. 2098; Gaz. vol. 156; p. 343.
Castings, Machine for making. A. Kribs. No. 959,557; May 31; Sp. p. 6788; Gaz. vol. 154; p. 1155.

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Castings, Manufacturing hollow. W. Kurze. No. 972,875; Oct. 18; Sp. p. 2977; Gaz. vol. 159; p. 527.
Castings, Means for forming openings in. M. M. King. No. 947,159; Jan. 18; Sp. p. 4747; Gaz. vol. 150; p. 782.
Castings, Mold for brass. F. E. Brown. No. 966,306; Aug. 2; Sp. p. 970; Gaz. vol. 157; p. 155.
Castings, Mold for hollow. W. T. Bausmith. No. 948,288; Feb. 1; Sp. p. 1039; Gaz. vol. 151; p. 170.
Castings out of steel-scrap, Making steel. H. F. Jones. No. 967,780; Aug. 16; Sp. p. 4124; Gaz. vol. 157; p. 706.
Castings, Production of. W. S. Potter. No. 967,830; Aug. 16; Sp. p. 4226; Gaz. vol. 157; p. 723.
Castings, Support for the internal molds of hollow. G. Weinbeer. No. 964,949; July 19; Sp. p. 4240; Gaz. vol. 156; p. 709.
Catalytic and making same. T. J. Wrampelmeier. No. 948,947; Feb. 8; Sp. p. 2449; Gaz. vol. 151; p. 417.
Catalytic body and making same. K. Schick. No. 971,149; Sept. 27; Sp. p. 4277; Gaz. vol. 158; p. 753.
Catamaran. M. Phillips. No. 979,557; Dec. 27; Sp. p. 4626; Gaz. vol. 161; p. 813.
Catamenial bandage. M. M. Gillam. No. 951,184; Mar. 8; Sp. p. 1458; Gaz. vol. 152; p. 264.
Catamenial bandage. I. M. Argo. No. 979,730; Dec. 27; Sp. p. 5000; Gaz. vol. 161; p. 873.
Catamenial garment. S. M. Taylor. No. 972,288; Oct. 11; Sp. p. 1696; Gaz. vol. 159; p. 298.
Catch. A. E. Waller. No. 967,090; Aug. 9; Sp. p. 2707; Gaz. vol. 157; p. 445.
Catch-basin cover. J. H. MacDonald. No. 979,182; Dec. 20; Sp. p. 3845; Gaz. vol. 161; p. 665.
Catch, Safety-. J. Stamp. No. 946,284; Jan. 11; Sp. p. 2800; Gaz. vol. 150; p. 466.
Catch, Safety-. T. Mountford. No. 950,553; Mar. 1; Sp. p. 191; Gaz. vol. 152; p. 32.
Catch, Safety-. R. Willard. No. 964,075; July 12; Sp. p. 2307; Gaz. vol. 156; p. 380.
Catching and holding device. W. B. Armstrong. No. 951,671; Mar. 8; Sp. p. 2455; Gaz. vol. 152; p. 425.
Catching and supporting device, Automatic. J. J. Scicluna. No. 945,053; Jan. 4; Sp. p. 95; Gaz. vol. 150; p. 17.
Cathode. E. A. Sperry. No. 961,549; June 14; Sp. p. 2713; Gaz. vol. 155; p. 470.
Cattle-check. P. G. Henoen. No. 965,297; July 26; Sp. p. 4949; Gaz. vol. 156; p. 853.
Cattle, Device for removing obstacles from the throats of. A. H. Kohne. No. 961,500; June 14; Sp. p. 2604; Gaz. vol. 155; p. 454.
Cattle-guard. A. M. White. No. 946,478; Jan. 11; Sp. p. 3311; Gaz. vol. 150; p. 532.
Cattle-guard. S. C. Baughn. No. 947,691; Jan. 25; Sp. p. 5962; Gaz. vol. 150; p. 992.
Cattle-guard. T. Moriarty. No. 954,039; Apr. 5; Sp. p. 716; Gaz. vol. 153; p. 126.
Cattle-guard. L. T. Cox. No. 956,295; Apr. 26; Sp. p. 5667; Gaz. vol. 153; p. 986.
Cattle-guard. E. J. Thomas. No. 956,745; May 3; Sp. p. 523; Gaz. vol. 154; p. 85.
Cattle-guard. W. E. Dement and A. C. Crawford. No. 962,554; June 28; Sp. p. 4908; Gaz. vol. 155; p. 860.
Cattle-guard. H. H. Herring. No. 968,353; Aug. 23; Sp. p. 5364; Gaz. vol. 157; p. 925.
Cattle-guard. C. P. Reed. No. 974,092; Oct. 25; Sp. p. 5606; Gaz. vol. 159; p. 971.
Cattle-guard. R. B. Walker. No. 980,033; Dec. 27; Sp. p. 5656; Gaz. vol. 161; p. 974.
Cattle-guard and halter, Combined. J. J. Steele and D. D. Owens. No. 968,279; Aug. 23; Sp. p. 5219; Gaz. vol. 157; p. 898.
Cattle-guard-operating mechanism. W. Terry. No. 967,999; Aug. 23; Sp. p. 4581; Gaz. vol. 157; p. 803.
Cattle-releasing device. W. G. Grimsley. No. 964,772; July 19; Sp. p. 3895; Gaz. vol. 156; p. 647.
Cautery, Electric. W. Meyer. No. 958,753; May 24; Sp. p. 5070; Gaz. vol. 154; p. 857.
Ceiling. E. Dieckmann. No. 979,658; Dec. 27; Sp p. 4840; Gaz. vol. 161; p. 849.
Ceiling and flooring construction. C. F. Franson. No. 947,590; Jan. 25; Sp. p. 5771; Gaz. vol. 150; p. 959.
Ceiling-bend for supporting pipes. W. U. Griffiths. No. 967,902; Aug. 23; Sp. p. 4365; Gaz. vol. 157; p. 770.
Ceiling construction, Metal-. P. Ebner. No. 951,307; Mar. 8; Sp. p. 1719; Gaz. vol. 152; p. 303.
Ceiling-support. D. Pemberton. No. 949,909; Feb. 22; Sp. p. 4491; Gaz. vol. 151; p. 802.
Celery-digger. W. Stoker. No. 968,432; Aug. 23; Sp. p. 5517; Gaz. vol. 157; p. 952.
Cellar, Storm and refrigerator. O. K. Harry. No. 955,794; Apr. 19; Sp. p. 4532; Gaz. vol. 153; p. 783.
Celluloid composition. J. W. Aylsworth. No. 962,877; June 28; Sp. p. 5561; Gaz. vol. 155; p. 973.
Celluloid or the like, Manufacture of. T. Bolas. No. 964,483; July 19; Sp. p. 3139; Gaz. vol. 156; p. 546.
Celluloid rods, Manufacture of pointed. G. Petitcollin. No. 977,326; Nov. 29; Sp. p. 7143; Gaz. vol. 160; p. 1216.
Celluloid substitute. H. Heydenhauss. No. 950,392; Feb. 22; Sp. p. 5513; Gaz. vol. 151; p. 966.
Cellulose, Apparatus for nitrating. A. F. Du Pont and J. T. Thompson. No. 979,560; Dec. 27; Sp. p. 4633; Gaz. vol. 161; p. 814.
Cellulose, Digester for the production of. E. Morterud. No. 966,112; Aug. 2; Sp. p. 565; Gaz. vol. 157; p. 92.
Cellulose ester and treating same. H. S. Mork. No. 972,464; Oct. 11; Sp. p. 2043; Gaz. vol. 159; p. 358.
Cellulose formate. S. v. Kapff. No. 953,677; Mar. 29; Sp. p. 6671; Gaz. vol. 152; p. 1188.
Cellulose formate. S. von Kapff. No. 955,082; Apr. 12; Sp. p. 2997; Gaz. vol. 153; p. 508.
Cellulose from fibrous materials, Apparatus for producing. G. H. Marshall. No. 968,864; Aug. 30; Sp. p. 6458; Gaz. vol. 157; p. 1125.
Cellulose, Manufacture of. E. Morterud. No. 947,974; Feb. 1; Sp. p. 414; Gaz. vol. 151; p. 66.
Cellulose, Manufacture of threads, filaments, strips, and films of. L. P. Wilson. No. 970,589; Sept. 20; Sp. p. 3076; Gaz. vol. 158; p. 536.
Cellulose, Manufacturing. A. Deiss. No. 967,001; Aug. 9; Sp. p. 2520; Gaz. vol. 157; p. 415.
Cellulose or pyroxylin compound. P. H. A. Leder. No. 974,285; Nov. 1; Sp. p. 467; Gaz. vol. 160; p. 68.
Cellulose structures, Manufacturing. R. Linkmeyer. No. 962,769; June 28; Sp. p. 5349; Gaz. vol. 155; p. 935.
Cellulose threads, filaments, or bands, Manufacture of. A. Lecoeur. No. 967,397; Aug. 16; Sp. p. 3353; Gaz. vol. 157; p. 578.
Cement and concrete work. E. Thomas. No. 958,336; May 17; Sp. p. 4244; Gaz. vol. 154; p. 692.
Cement and concrete surfaces, Device for roding off. J. R. Gorden. No. 947,469; Jan. 25; Sp. p. 5487; Gaz. vol. 150; p. 917.
Cement and product, Making waterproof Portland. M. Toch. No. 976,520; Nov. 22; Sp. p. 5380; Gaz. vol. 160; p. 913.
Cement-applier. W. F. Lautenschlager. No. 969,168; Sept. 6; Sp. p. 39; Gaz. vol. 158; p. 9.
Cement-applying machine. W. F. Lautenschlager. No. 966,453; Aug. 9; Sp. p. 1283; Gaz. vol. 157; p. 231.
Cement, Bituminous. J. H. Amies. No. 951,471; Mar. 8; Sp. p. 2060; Gaz. vol. 152; p. 357.
Cement block. E. C. Lanning. No. 960,562; June 7; Sp. p. 666; Gaz. vol. 155; p. 109.
Cement block and wall mold. C. A. Torrance. No. 953,647; Mar. 29; Sp. p. 6593; Gaz. vol. 152; p. 1178.
Cement-block-handling device. R. L. Hensley. No. 976,652; Nov. 22; Sp. p. 5674; Gaz. vol. 160; p. 959.
Cement-block machine. G. J. Miller. No. 947,116; Jan. 18; Sp. p. 4663; Gaz. vol. 150; p. 770.
Cement-block machine. C. N. Choate. No. 947,569; Jan. 25; Sp. p. 5729; Gaz. vol. 150; p. 952.
Cement-block machine. W. G. Korab. No. 953,208; Mar. 29; Sp. p. 5656; Gaz. vol. 152; p. 1027.
Cement-block machine. F. H. Huber. No. 964,257; July 12; Sp. p. 2671; Gaz. vol. 156; p. 440.
Cement-block machine. L. and W. Hage. No. 968,048; Aug. 23; Sp. p. 4691; Gaz. vol. 157; p. 820.
Cement-block machine. H. E. Baker and W. R. Johnson. No. 975,108; Nov. 8; Sp. p. 2332; Gaz. vol. 160; p. 381.
Cement-block machine, Automatic. W. D. Wise. No. 961,664; June 14; Sp. p. 2934; Gaz. vol. 155; p. 508.
Cement-block-making machine. B. L. Blair. No. 951,099; Mar. 8; Sp. p. 1294; Gaz. vol. 152; p. 237.
Cement-block-making machine, Hydraulic. W. L. Keny. No. 960,953; June 7; Sp. p. 1425; Gaz. vol. 155; p. 240.
Cement-block mold. T. H. Kruse. No. 964,112; July 12; Sp. p. 2396; Gaz. vol. 156; p. 393.
Cement-block mold. F. H. Huber. No. 964,258; July 12; Sp. p. 2673; Gaz. vol. 156; p. 440.
Cement-block mold. J. T. Jordan. No. 965,909; Aug. 2; Sp. p. 131; Gaz. vol. 157; p. 22.
Cement-block mold. A. W. Winterfield. No. 969,232; Sept. 6; Sp. p. 189; Gaz. vol. 158; p. 31.
Cement-block mold. R. J. Bratton. No. 974,350; Nov. 1; Sp. p. 619; Gaz. vol. 160; p. 93.
Cement-block mold. E. P. Frink and D. A. Jones. No. 977,792; Dec. 6; Sp. p. 817; Gaz. vol. 161; p. 127.
Cement-block mold, Compression. W. D. Wise. No. 961,828; June 21; Sp. p. 3296; Gaz. vol. 155; p. 587.
Cement-block-molding apparatus. J. I. Taylor. No. 961,659; June 14; Sp. p. 2927; Gaz. vol. 155; p. 507.
Cement-block-molding machine. L. J. Kalvig. No. 967,020; Aug. 9; Sp. p. 2566; Gaz. vol. 157; p. 421.
Cement-block-molding machine. R. J. Hamilton. No. 975,231; Nov. 8; Sp. p. 2610; Gaz. vol. 160; p. 422.
Cement-brick machine. G. J. Buckeye and J. Buerlein. No. 954,418; Apr. 12; Sp. p. 1529; Gaz. vol. 153; p. 281.
Cement-brick machine. D. F. Shope. No. 965,027; July 19; Sp. p. 4392; Gaz. vol. 156; p. 733.
Cement-brick press. C. M. Starr. No. 965,247; July 26; Sp. p. 4842; Gaz. vol. 156; p. 837.
Cement building-blocks, Apparatus for making. M. E. Smith. No. 962,104; June 21; Sp. p. 3892; Gaz. vol. 155; p. 680.
Cement buildings, Adjustable apparatus for the construction of. N. C. Newerf. No. 947,160; Jan. 18; Sp. p. 4749; Gaz. vol. 150; p. 783.
Cement, Composition of matter to be used for making acid-proof. H. Kayser. No. 964,164; July 12; Sp. p. 2487; Gaz. vol. 156; p. 409.

Cement-form. F. T. Leeder. No. 979,863; Dec. 27; Sp. p. 5306; Gaz. vol. 161; p. 918.
Cement-kiln, Multitubular. H. L. Doherty. No. 945,498; Jan. 4; Sp. p. 1068; Gaz. vol. 150; p. 165.
Cement, Making hydraulic. J. M. Carreré. No. 953,258; Mar. 29; Sp. p. 5767; Gaz. vol. 152; p. 1044.
Cement, Making Portland. J. M. Carrère. No. 978,848; Dec. 20; Sp. p. 3058; Gaz. vol. 161; p. 544.
Cement, Manufacturing. R. Tornyay-Schosberger. No. 954,658; Apr. 12; Sp. p. 2069; Gaz. vol. 153; p. 364.
Cement-mixer. W. A. Cook and J. Dushane. No. 952,606; Mar. 22; Sp. p. 4367; Gaz. vol. 152; p. 797.
Cement-mixer. A. Heinberg. No. 954,285; Apr. 5; Sp. p. 1252; Gaz. vol. 153; p. 208.
Cement-mixer loader. W. A. Cook. No. 978,136; Dec. 13; Sp. p. 1565; Gaz. vol. 161; p. 278.
Cement-mixers, Feeding mechanism for. H. Beiswenger. No. 946,817; Jan. 18; Sp. p. 4046; Gaz. vol. 150; p. 671.
Cement-mold. R. F. Hanneman. No. 975,615; Nov. 15; Sp. p. 3419; Gaz. vol. 160; p. 580.
Cement-mold, Adjustable. W. H. Miller. No. 972,015; Oct. 4; Sp. p. 1111; Gaz. vol. 159; p. 186.
Cement or concrete fence-post. H. W. Underwood. No. 954,831; Apr. 12; Sp. p. 2489; Gaz. vol. 153; p. 424.
Cement or concrete fence-post mold. H. W. Underwood. No. 954,830; Apr. 12; Sp. p. 2488; Gaz. vol. 153; p. 424.
Cement or concrete, Mold for forming walls or buildings of. C. P. Hockett. No. 951,120; Mar. 8; Sp. p. 1326; Gaz. vol. 152; p. 243.
Cement or other liquids to stock, Machine for applying liquid. A. E. Johnson. No. 949,018; Feb. 15; Sp. p. 2620; Gaz. vol. 151; p. 468.
Cement post. M. C. Nolte. No. 949,594; Feb. 15; Sp. p. 3789; Gaz. vol. 151; p. 659.
Cement posts, Wire-fastener for. J. L. Settles. No. 946,075; Jan. 11; Sp. p. 2362; Gaz. vol. 150; p. 392.
Cement, Process of and apparatus for burning. H. L. Doherty. No. 945,307; Jan. 4; Sp. p. 658; Gaz. vol. 150; p. 103.
Cement-producing apparatus. H. Passow. No. 964,805; July 19; Sp. p. 3956; Gaz. vol. 156; p. 658.
Cement roofing-tile. W. E. Lindau. No. 973,946; Oct. 25; Sp. p. 5305; Gaz. vol. 159; p. 921.
Cement seat. C. P. Price. No. 948,770; Feb. 8; Sp. p. 2113; Gaz. vol. 151; p. 359.
Cement shingle. O. O. Burnett. No. 954,019; Apr. 5; Sp. p. 664; Gaz. vol. 153; p. 118.
Cement-supplying apparatus. N. Marshall. No. 954,753; Apr. 12; Sp. p. 2297; Gaz. vol. 153; p. 398.
Cement-tile machine. W. Johnson. No. 968,360; Aug. 23; Sp. p. 5376; Gaz. vol. 157; p. 928.
Cement wall. G. H. Pegram. No. 948,186; Feb. 1; Sp. p. 828; Gaz. vol. 151; p. 136.
Cement walls, Flask for building. J. C. Joslin. No. 974,673; Nov. 1; Sp. p. 1349; Gaz. vol. 160; p. 209.
Cement-watering-tank mold. S. McAdam. No. 967,030; Aug. 9; Sp. p. 2588; Gaz. vol. 157; p. 425.
Cements, Facilitating and accelerating the hardening of hydraulic. L. Hatschek. No. 974,138; Nov. 1; Sp. p. 62; Gaz. vol. 160; p. 13.
Cementation by dry packing. H. Rodman. No. 949,443; Feb. 15; Sp. p. 3498; Gaz. vol. 151; p. 611.
Cementation compounds, Re-treating. H. Rodman. No. 949,441; Feb. 15; Sp. p. 3496; Gaz. vol. 151; p. 611.
Cementation or case-hardening material. H. Rodman. No. 949,449; Feb. 15; Sp. p. 3503; Gaz. vol. 151; p. 612.
Cementing low-carbon iron. H. Rodman. No. 949,445; Feb. 15; Sp. p. 3500; Gaz. vol. 151; p. 611.
Cementing-machine. N. Marshall. No. 963,234; July 5; Sp. p. 522; Gaz. vol. 156; p. 74.
Cementing material and making the same. H. Rodman. No. 949,442; Feb. 15; Sp. p. 3497; Gaz. vol. 151; p. 611.
Cementing or joining materials or articles, Composition for. J. T. Norman. No. 949,493; Feb. 15; Sp. p. 3593; Gaz. vol. 151; p. 626.
Centering apparatus. J. T. Rice. No. 959,167; May 24; Sp. p. 5976; Gaz. vol. 154; p. 999.
Centering device. J. B. Blaw. No. 946,003; Jan. 11; Sp. p. 2215; Gaz. vol. 150; p. 367.
Centering device. V. Stroh. No. 949,856; Feb. 22; Sp. p. 4360; Gaz. vol. 151; p. 782.
Centering device. A. Franchini. No. 961,599; June 14; Sp. p. 2813; Gaz. vol. 155; p. 487.
Centering-form, Sectional metallic. H. Besser. No. 963,984; July 12; Sp. p. 2123; Gaz. vol. 156; p. 347.
Centering-machine. A. A. and J. A. Anthony. No. 945,256; Jan. 4; Sp. p. 522; Gaz. vol. 150; p. 86.
Centering-machine. W. B. Johnson. No. 959,865; May 31; Sp. p. 7437; Gaz. vol. 154; p. 1258.
Centering-machine. R. Milne. No. 968,489; Aug. 23; Sp. p. 5627; Gaz. vol. 157; p. 971.
Centering-machine. G. B. Brenneisen. No. 970,679; Sept. 20; Sp. p. 3298; Gaz. vol. 158; p. 567.
Centers, Instrument for comparing the relative positions of. N. A. Locke. No. 978,177; Dec. 13; Sp. p. 1657; Gaz. vol. 161; p. 291.
Centrifugal apparatus for compressing and propelling fluids. C. Wedekind. No. 951,162; Mar. 8; Sp. p. 1414; Gaz. vol. 152; p. 257.
Centrifugal machine. E. Roberts and A. H. Gibson. No. 957,715; May 10; Sp. p. 2573; Gaz. vol. 154; p. 445.
Centrifugal machine. G. ter Meer. No. 973,121; Oct. 18; Sp. p. 3538; Gaz. vol. 159; p. 612.
Centrifugal machine, Continuous. F. H. Roberts. No. 962,052; June 21; Sp. p. 3774; Gaz. vol. 155; p. 662.
Centrifugal screen. W. R. Cunningham. No. 971,174; Sept. 27; Sp. p. 4341; Gaz. vol. 158; p. 761.
Centrifugal separating apparatus. L. C. Trent. No. 952,653; Mar. 22; Sp. p. 4476; Gaz. vol. 152; p. 814.
Centrifugal separating-machine. H. M. Goodman. No. 949,226; Feb. 15; Sp. p. 3017; Gaz. vol. 151; p. 536.
Centrifugal separator. J. W. Phillips. No. 945,592; Jan. 4; Sp. p. 1257; Gaz. vol. 150; p. 195.
Centrifugal separator. L. E. Jones. No. 946,444; Jan. 11; Sp. p. 3238; Gaz. vol. 150; p. 520.
Centrifugal separator. H. M. Goodman. No. 949,227; Feb. 15; Sp. p. 3021; Gaz. vol. 151; p. 536.
Centrifugal separator. W. R. Macklind. No. 949,488; Feb. 15; Sp. p. 3583; Gaz. vol. 151; p. 624.
Centrifugal separator. W. P. Shepherd. No. 949,603; Feb. 15; Sp. p. 3805; Gaz. vol. 151; p. 663.
Centrifugal separator. P. M. Sharples. No. 951,153; Mar. 8; Sp. p. 1399; Gaz. vol. 152; p. 254.
Centrifugal separator. W. A. Preston and G. M. Duffie. No. 955,355; Apr. 19; Sp. p. 3583; Gaz. vol. 153; p. 633.
Centrifugal separator. F. H. Fleege. No. 961,488; June 14; Sp. p. 2580; Gaz. vol. 155; p. 450.
Centrifugal separator. J. J. Berrigan. No. 965,558; July 26; Sp. p. 5548; Gaz. vol. 156; p. 945.
Centrifugal separator. F. R. Abeel. No. 969,591; Sept. 6; Sp. p. 952; Gaz. vol. 158; p. 150.
Centrifugal separator. F. J. Babcock. No. 973,248; Oct. 18; Sp. p. 3839; Gaz. vol. 159; p. 657.
Centrifugal-separator float. C. H. Shaw. No. 959,625; May 31; Sp. p. 6916; Gaz. vol. 154; p. 1177.
Centrifugal separators, Hollow shaft for. C. H. Shaw. No. 959,030; May 24; Sp. p. 5670; Gaz. vol. 154; p. 953.
Centrifugal switch. J. B. Wiard. No. 945,997; Jan. 11; Sp. p. 2204; Gaz. vol. 150; p. 366.
Centrifugal switch. W. J. Branson. No. 977,591; Dec. 6; Sp. p. 405; Gaz. vol. 161; p. 59.
Centrifugals, Device for cleaning. P. T. Sundberg. No. 966,265; Aug. 2; Sp. p. 895; Gaz. vol. 157; p. 143.
Ceramic materials, Apparatus for burning. H. L. Doherty. No. 974,646; Nov. 1; Sp. p. 1296; Gaz. vol. 160; p. 199.
Ceramic wares, Producing. E. S. Powers. No. 950,954; Mar. 1; Sp. p. 1031; Gaz. vol. 152; p. 165.
Ceramic wares, Producing conductive layers on. S. Heller. No. 952,901; Mar. 22; Sp. p. 4996; Gaz. vol. 152; p. 898.
Cereal-steeping apparatus. A. Peltzer. No. 952,136; Mar. 15; Sp. p. 3389; Gaz. vol. 152; p. 609.
Cereals, Bleaching and aging. J. M. Williams. No. 963,970; July 12; Sp. p. 2092; Gaz. vol. 156; p. 342.
Certificate, ticket-holder, and receipt therefor, Combined stop-over. C. W. Alexander. No. 954,242; Apr. 5; Sp. p. 1168; Gaz. vol. 153; p. 195.
Cesspool and trap. J. G. Hayes. No. 947,817; Feb. 1; Sp. p. 66; Gaz. vol. 151; p. 14.
Chafing-dish stand. G. E. Savage. No. 945,287; Jan. 4; Sp. p. 583; Gaz. vol. 150; p. 96.
Chain. J. M. Dodge. No. 958,676; May 17; Sp. p. 4902; Gaz. vol. 154; p. 805.
Chain. C. W. Levalley. No. 975,965; Nov. 15; Sp. p. 4134; Gaz. vol. 160; p. 699.
Chain and wheel therefor, Drive-. W. J. Belcher. No. 959,046; May 24; Sp. p. 5708; Gaz. vol. 154; p. 959.
Chain, Antiskid-. R. N. Evans. No. 979,141; Dec 20; Sp. p. 3756; Gaz. vol. 161; p. 650.
Chain attachment, Eyeglass-. E. R. Matters. No. 970,853; Sept. 20; Sp. p. 3683; Gaz. vol. 158; p. 629.
Chain case and gearing. P. H. Breed. No. 980,141; Dec. 27; Sp. p. 5913; Gaz. vol. 161; p. 1009.
Chain clip, Drive-. W. J. Belcher. No. 951,555; Mar. 8; Sp. p. 2223; Gaz. vol. 152; p. 386.
Chain-cloth, Machine for making. F. Bement. No. 960,485; June 7; Sp. p. 489; Gaz. vol. 155; p. 82.
Chain construction, Drive-. W. J. Belcher. No. 958,466; May 17; Sp. p. 4501; Gaz. vol. 154; p. 737.
Chain, Conveyer-. C. W. Honabach. No. 955,070; Apr. 12; Sp. p. 2974; Gaz. vol. 153; p. 505.
Chain, Conveyer-. J. McLauchlin and T. J. Rogers. No. 964,302; July 12; Sp. p. 2774; Gaz. vol. 156; p. 457.
Chain-coupling. J. M. Brown. No. 975,323; Nov. 8; Sp. p. 2809; Gaz. vol. 160; p. 454.
Chain, Cutter-. N. D. Levin. No. 945,335; Jan. 4; Sp. p. 724; Gaz. vol. 150; p. 111.
Chain, Drive-. W. J. Belcher. No. 953,114; Mar. 29; Sp. p. 5458; Gaz. vol. 152; p. 997.
Chain, Drive-. F. L. Morse. No. 953,429; Mar. 29; Sp. p. 6139; Gaz. vol. 152; p. 1102.
Chain, Drive-. H. S. Pierce. No. 958,675; May 17; Sp. p. 4901; Gaz. vol. 154; p. 805.
Chain, Drive-. J. M. Dodge. No. 958,677; May 17; Sp. p. 4904; Gaz. vol. 154; p. 805.
Chain, Drive-. W. J. Belcher. No. 959,047; May 24; Sp. p. 5710; Gaz. vol. 154; p. 959.
Chain, Drive-. H. K. Holsman. No. 959,532; May 31; Sp. p. 6728; Gaz. vol. 154; p. 1145.
Chain, Drive-. J. T. Wayson, Jr. No. 973,242; Oct. 18; Sp. p. 3831; Gaz. vol. 159; p. 655.
Chain drive, Sprocket-. T. A. Edison. No. 954,789; Apr. 12; Sp. p. 2373; Gaz. vol. 153; p. 410.

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Chain ends, Lock for connecting. W. Adler. No. 953,731; Apr. 5; Sp. p. 95; Gaz. vol. 153; p. 19.
Chain-fastener. R. A. Biskamp. No. 955,842; Apr. 26; Sp. p. 4656; Gaz. vol. 153; p. 829.
Chain-gear casing. J. P. Fillingham. No. 966,391; Aug. 2; Sp. p. 1128; Gaz. vol. 157; p. 182.
Chain-grate furnace. E. Bousse. No. 953,684; Apr. 5; Sp. p. 10; Gaz. vol. 153; p. 4.
Chain-grate furnace. A. W. Bennis. No. 962,734; June 28; Sp. p. 5278; Gaz. vol. 155; p. 921.
Chain guard and silencer. S. M. Sorensen. No. 952,647; Mar. 22; Sp. p. 4457; Gaz. vol. 152; p. 812.
Chain-guide for pull-sockets. H. Hubbell. No. 956,354; Apr. 26; Sp. p. 5785; Gaz. vol. 153; p. 1006.
Chain-link. E. J. Reinhart and A. N. Ruddock. No. 963,941; July 12; Sp. p. 2022; Gaz. vol. 156; p. 333.
Chain-link. J. M. Dodge. No. 973,922; Oct. 25; Sp. p. 5263; Gaz. vol. 159; p. 913.
Chain-link-forming machine. C. L. Hoff and M. O. Rehfuss. No. 976,568; Nov. 22; Sp. p. 5504; Gaz. vol. 160; p. 930.
Chain link, Sprocket-. S. Nye. No. 957,996; May 17; Sp. p. 3255; Gaz. vol. 154; p. 571.
Chain, Locking-. J. U. Barr. No. 967,308; Aug. 16; Sp. p. 3153; Gaz. vol. 157; p. 546.
Chain, Making. L. Bruckmann. No. 975,928; Nov. 15; Sp. p. 4067; Gaz. vol. 160; p. 686.
Chain, Open-link. G. L. Lamb. No. 970,242; Sept. 13; Sp. p. 2365; Gaz. vol. 158; p. 398.
Chain or chain-link. T. J. Williams. No. 977,355; Nov. 29; Sp. p. 7209; Gaz. vol. 160; p. 1226.
Chain, Power-. C. W. Levalley. No. 971,454; Sept. 27; Sp. p. 4866; Gaz. vol. 158; p. 853.
Chain-repairing implement. J. N. Macdonald. No. 965,722; July 26; Sp. p. 5895; Gaz. vol. 156; p. 1001.
Chain-repairing tool. D. G. Vaughn. No. 979,609; Dec. 27; Sp. p. 4739; Gaz. vol. 161; p. 832.
Chain, Sprocket-. F. L. Morse. No. 953,427; Mar. 29; Sp. p. 6135; Gaz. vol. 152; p. 1101.
Chain, Sprocket-. F. L. Morse. No. 953,428; Mar. 29; Sp. p. 6137; Gaz. vol. 152; p. 1102.
Chain-stretching device. G. Lemak. No. 963,052; July 5; Sp. p. 51; Gaz. vol. 156; p. 10.
Chain-tightener. J. Welty. No. 952,773; Mar. 22; Sp. p. 4739; Gaz. vol. 152; p. 854.
Chains, Joining-link for. G. E. Scott. No. 956,192; Apr. 26; Sp. p. 5439; Gaz. vol. 153; p. 952.
Chains, Making cable-. F. Egge. No. 978,717; Dec. 13; Sp. p. 2822; Gaz. vol. 161; p. 479.
Chains, Wire for ornamental. T. F. Carlisle. No. 978,847; Dec. 20; Sp. p. 3057; Gaz. vol. 161; p. 544.
Chair: *See* Adjustable chair; Advertising-chair; Barber's chair; Child's chair; Confinement-chair; Convertible chair; Dental chair; Disappearing chair; Folding chair; Foot-rest chair; High chair; Hydraulic chair; Invalid-chair; Invalid's chair; Joint-chair; Lineman's chair; Motor-chair; Nursery-chair; Opera-chair; Photographic chair; Rail-chair; Rail-joint chair; Railway joint-chair; Railway-rail chair; Reclining-chair; Revolving chair; Revolving tiltable chair; Rocking-chair; Scaffold-chair; Shoe-shining chair; Surgical chair; Swinging chair; Switch-chair; Tilting-chair; Trick-chair; Upholstered chair; Window-chair; Window-cleaning chair.
Chair. M. Anthony. No. 945,149; Jan. 4; Sp. p. 288; Gaz. vol. 150; p. 50.
Chair. L. G. Fullam. No. 945,510; Jan. 4; Sp. p. 1091; Gaz. vol. 150; p. 168.
Chair. B. Horton. No. 947,681; Jan. 25; Sp. p. 5947; Gaz. vol. 150; p. 989.
Chair. A. Wanner, Jr. No. 950,974; Mar. 1; Sp. p. 1070; Gaz. vol. 152; p. 171.
Chair. A. Wanner, Jr. No. 951,035; Mar. 1; Sp. p. 1166; Gaz. vol. 152; p. 191.
Chair. M. L. Hurd. No. 953,338; Mar. 29; Sp. p. 5933; Gaz. vol. 152; p. 1071.
Chair. E. Urba. No. 953,872; Apr. 5; Sp. p. 378; Gaz. vol. 153; p. 68.
Chair. W. R. Gordon. No. 957,552; May 10; Sp. p. 2251; Gaz. vol. 154; p. 389.
Chair. J. Peterson and J. G. Callaway. No. 958,000; May 17; Sp. p. 3264; Gaz. vol. 154; p. 572.
Chair. W. S. Phillips. No. 958,529; May 17; Sp. p. 4617; Gaz. vol. 154; p. 758.
Chair. A. Searles. No. 959,619; May 31; Sp. p. 6905; Gaz. vol. 154; p. 1175.
Chair. F. E. Folts. No. 964,012; July 12; Sp. p. 2181; Gaz. vol. 156; p. 357.
Chair. C. Pfeiffer. No. 965,932; Aug. 2; Sp. p. 175; Gaz. vol. 157; p. 30.
Chair. R. R. Reed. No. 968,195; Aug. 23; Sp. p. 5037; Gaz. vol. 157; p. 868.
Chair. J. A. Wilkinson. No. 972,487; Oct. 11; Sp. p. 2100; Gaz. vol. 159; p. 366.
Chair. M. B. Williams. No. 975,188; Nov. 8; Sp. p. 2528; Gaz. vol. 160; p. 409.
Chair and couch, Convertible. H. Tiedemann and J. U. Clarke. No. 956,836; May 3; Sp. p. 730; Gaz. vol. 154; p. 115.
Chair and couch, Convertible. H. Tiedemann and J. U. Clarke. No. 956,837; May 3; Sp. p. 731; Gaz. vol. 154; p. 116.
Chair and the like seat. E. J. Hoff. No. 974,769; Nov. 1; Sp. p. 1563; Gaz. vol. 160; p. 241.
Chair attachment. G. W. Haas. No. 946,842; Jan. 18; Sp. p. 4110; Gaz. vol. 150; p. 680.
Chair attachment. F. W. Butt. No. 948,309; Feb. 8; Sp. p. 1106; Gaz. vol. 151; p. 203.
Chair attachment. D. McGenniss. No. 951,145; Mar. 8; Sp. p. 1383; Gaz. vol. 152; p. 251.
Chair auxiliary seat. G. W. Riebe. No. 972,472; Oct. 11; Sp. p. 2073; Gaz. vol. 159; p. 361.
Chair back, Automatic reclining-. F. B. Wersel, Jr. No. 960,607; June 7; Sp. p. 746; Gaz. vol. 155; p. 123.
Chair-cane. F. Tum. No. 951,857; Mar. 15; Sp. p. 2843; Gaz. vol. 152; p. 517.
Chair fan attachment. D. J. Etly. No. 973,267; Oct. 18; Sp. p. 3878; Gaz. vol. 159; p. 663.
Chair fan attachment, Rocking-. A. A. Brodeur. No. 952,068; Mar. 15; Sp. p. 3258; Gaz. vol. 152; p. 587.
Chair fan attachment, Rocking-. P. Pezzene. No. 959,384; May 24; Sp. p. 6403; Gaz. vol. 154; p. 1070.
Chair fan attachment, Rocking-. D. Bilisits. No. 962,808; June 28; Sp. p. 5428; Gaz. vol. 155; p. 948.
Chair head-rest. W. Bausch and J. Scheib. No. 949,369; Feb. 15; Sp. p. 3342; Gaz. vol. 151; p. 585.
Chair head-rest. F. Ritter. No. 974,188; Nov. 1; Sp. p. 189; Gaz. vol. 160; p. 32.
Chair head-rest, Barber-. A. L. Undeland. (Reissue.) No. 13,094; Mar. 15; Sp. p. 3980; Gaz. vol. 152; p. 712.
Chair head-rest, Barber's-. G. W. Gosser. No. 945,518; Jan. 4; Sp. p. 1106; Gaz. vol. 150; p. 171.
Chair or seat. H. W. Moore. No. 968,871; Aug. 30; Sp. p. 6472; Gaz. vol. 157; p. 1127.
Chair or stool. R. L. Hileman. No. 966,745; Aug. 9; Sp. p. 1969; Gaz. vol. 157; p. 331.
Chair or stool attachment. F. T. Nash. No. 970,385; Sept. 13; Sp. p. 2638; Gaz. vol. 158; p. 445.
Chair parts, Fastening device for. M. D. Bell. No. 962,613; June 28; Sp. p. 5027; Gaz. vol. 155; p. 879.
Chair-seat. C. Munson and J. Jackson. No. 975,632; Nov. 15; Sp. p. 3451; Gaz. vol. 160; p. 586.
Chair seat attachment, Barber's-. A. R. Lerro. No. 963,595; July 5; Sp. p. 1276; Gaz. vol. 156; p. 195.
Chair seat, Barber-. E. E. Koken. No. 957,970; May 17; Sp. p. 3190; Gaz. vol. 154; p. 562.
Chair-seats, Manufacture of. E. P. Wanner. No. 953,246; Mar. 29; Sp. p. 5739; Gaz. vol. 152; p. 1041.
Chair-securing device. J. J. Astor. No. 961,093; June 14; Sp. p. 1731; Gaz. vol. 155; p. 314.
Chair table attachment. A. G. Eyles. No. 975,755; Nov. 15; Sp. p. 3717; Gaz. vol. 160; p. 627.
Chairs, Actuating foot-rest for rocking-. F. W. C. Leipert. No. 959,949; May 31; Sp. p. 7636; Gaz. vol. 154; p. 1287.
Chairs, Apparatus for making leather-covered cushioned seats for. A. Rothberg. No. 958,011; May 17; Sp. p. 3311; Gaz. vol. 154; p. 577.
Chairs, Blower for rocking-. E. G. Bules. No. 957,739; May 10; Sp. p. 2617; Gaz. vol. 154; p. 453.
Chairs, Combined head-rest and server for barbers'. C. Pfanschmidt. No. 968,403; Aug. 23; Sp. p. 5463; Gaz. vol. 157; p. 942.
Chairs, Hat-holder for theater-. H. H. Wilton. No. 948,264; Feb. 1; Sp. p. 986; Gaz. vol. 151; p. 162.
Chairs, Valve mechanism for dental or other similar. F. Ritter. No. 974,189; Nov. 1; Sp. p. 193; Gaz. vol. 160; p. 32.
Chalice. C. J. Ljunggren. No. 960,977; June 7; Sp. p. 1478; Gaz. vol. 155; p. 248.
Chalk-holder. D. W. Shepherd. No. 950,680; Mar. 1; Sp. p. 456; Gaz. vol. 152; p. 74.
Chalk-holder. J. W. Puterbaugh. No. 953,229; Mar. 29; Sp. p. 5698; Gaz. vol. 152; p. 1034.
Chalk-holder. D. W. Shepherd. No. 966,132; Aug. 2; Sp. p. 600; Gaz. vol. 157; p. 99.
Chalk-holder. H. C. Brunst and L. R. Roland. No. 972,157; Oct. 11; Sp. p. 1410; Gaz. vol. 159; p. 253.
Chalk-holder. J. J. Sayles. No. 978,064; Dec. 6; Sp. p. 1381; Gaz. vol. 161; p. 222.
Chalk holder or cup. M. Franklin. No. 967,628; Aug. 16; Sp. p. 3818; Gaz. vol. 157; p. 655.
Chalk-line holder. J. G. Hall. No. 946,964; Jan. 18; Sp. p. 4387; Gaz. vol. 150; p. 721.
Chalk-line holder. J. D. Eastman. No. 947,892; Feb. 1; Sp. p. 245; Gaz. vol. 151; p. 40.
Chalk-line reel. R. L. Pickering. No. 956,598; May 3; Sp. p. 196; Gaz. vol. 154; p. 34.
Chalk-line reel. J. C. F. Whitmore. No. 963,967; July 12; Sp. p. 2089; Gaz. vol. 156; p. 341.
Chalk-sharpening device. I. Neuman. No. 947,186; Jan. 18; Sp. p. 4804; Gaz. vol. 150; p. 792.
Chalk-sharpening device. A. Brantz. No. 957,733; May 10; Sp. p. 2611; Gaz. vol. 154; p. 452.
Chandelier, Extensible electric-light. C. C. Kennedy. No. 971,899; Oct. 4; Sp. p. 839; Gaz. vol. 159; p. 144.
Chandelier for gas-lamps. G. W. Cassidy. No. 971,020; Sept. 27; Sp. p. 3996; Gaz. vol. 158; p. 710.
Chandelier-support. J. Rau. No. 976,291; Nov. 22; Sp. p. 4886; Gaz. vol. 160; p. 835.
Change-carrier. C. G. Palmer. No. 954,761; Apr. 12; Sp. p. 2319; Gaz. vol. 153; p. 401.
Change-delivering machine. J. J. Dubbelde. No. 978,713; Dec. 13; Sp. p. 2808; Gaz. vol. 161; p. 477.

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Change-delivery device. C. J. Pollock. No. 964,549; July 19; Sp. p. 3320; Gaz. vol. 156; p. 568.
Change maker and indicator. L. Kleinhans. No. 976,129; Nov. 15; Sp. p. 4462; Gaz. vol. 160; p. 755.
Change-making device. L. J. Dittmar. No. 964,149; July 12; Sp. p. 2466; Gaz. vol. 156; p. 404.
Change-making machine. I. Rosenfeld. No. 970,557; Sept. 20; Sp. p. 3017; Gaz. vol. 158; p. 525.
Channel-iron clip. P. C. Morgan. No. 968,586; Aug. 30; Sp. p. 5852; Gaz. vol. 157; p. 1032.
Channel-kiln. G. E. Öhrn. No. 948,243; Feb. 1; Sp. p. 944; Gaz. vol. 151; p. 155.
Channel-ribbon, Making. J. D. Wilson. No. 972,967; Oct. 18; Sp. p. 3222; Gaz. vol. 159; p. 560.
Channeling-machines, Adjustable work support and gage for. A. H. Prenzel. No. 965,656; July 26; Sp. p. 5754; Gaz. vol. 156; p. 979.
Chaplet. J. P. McCoy. No. 967,034; Aug. 9; Sp. p. 2594; Gaz. vol. 157; p. 426.
Chaplet, Adjustable. T. H. Wells. No. 974,218; Nov. 1; Sp. p. 257; Gaz. vol. 160; p. 43.
Char-revivifying kiln. R. S. Kent. No. 972,002; Oct. 4; Sp. p. 1086; Gaz. vol. 159; p. 182.
Charcoal and the product thereof, Purifying animal. J. H. Utley. No. 947,503; Jan. 25; Sp. p. 5596; Gaz. vol. 150; p. 929.
Charcoal-bagging apparatus. W. M. Fransecky. No. 952,987; Mar. 22; Sp. p. 5155; Gaz. vol. 152; p. 925.
Charging apparatus. F. H. Daniels. No. 956,890; May 3; Sp. p. 852; Gaz. vol. 154; p. 135.
Charging-switch. W. S. Henry. No. 965,456; July 26; Sp. p. 5311; Gaz. vol. 156; p. 907.
Chart and templet, Dress. S. Komura. No. 956,370; Apr. 26; Sp. p. 5826; Gaz. vol. 153; p. 1011.
Chart-box and course-indicator. H. P. Guillo. No. 964,773; July 19; Sp. p. 3896; Gaz. vol. 156; p. 647.
Chart or guide, Color. E. W. Fairchild. No. 975,341; Nov. 8; Sp. p. 2843; Gaz. vol. 160; p. 459.
Chatelaine-bag. W. H. Saart. No. 971,411; Sept. 27; Sp. p. 4793; Gaz. vol. 158; p. 839.
Check. J. C. Bell. No. 971,107; Sept. 27; Sp. p. 4191; Gaz. vol. 158; p. 740.
Check-assorter. C. H. Jones. No. 959,943; May 31; Sp. p. 7622; Gaz. vol. 154; p. 1286.
Check, Baggage-. J. M. Bailhache. No. 957,484; May 10; Sp. p. 2109; Gaz. vol. 154; p. 366.
Check-controlled apparatus. A. E. Acee. No. 950,200; Feb. 22; Sp. p. 5143; Gaz. vol. 151; p. 903.
Check-controlled apparatus. J. A. Wilson. No. 950,313; Feb. 22; Sp. p. 5368; Gaz. vol. 151; p. 942.
Check-controlled apparatus. M. J. Walther. No. 965,547; July 26; Sp. p. 5528; Gaz. vol. 156; p. 941.
Check-controlled apparatus. W. F. Ablett. No. 976,114; Nov. 15; Sp. p. 4429; Gaz. vol. 160; p. 751.
Check-controlled manually-operated lock. A. W. Riggs. No. 954,700; Apr. 12; Sp. p. 2150; Gaz. vol. 153; p. 376.
Check-controlled mechanism. H. V. Westervelt. No. 965,427; July 26; Sp. p. 5241; Gaz. vol. 156; p. 897.
Check device, Manifold. F. B. Jordan. No. 965,527; July 26; Sp. p. 5479; Gaz. vol. 156; p. 933.
Check displayer and annunciator. W. F. Schweiger. No. 956,435; Apr. 26; Sp. p. 5952; Gaz. vol. 153; p. 1034.
Check for hotels, Guest-. H. Loebl. No. 946,378; Jan. 11; Sp. p. 3098; Gaz. vol. 150; p. 497.
Check-holder. P. J. Harrigan. No. 954,096; Apr. 5; Sp. p. 843; Gaz. vol. 153; p. 145.
Check-hook. J. Tschudi. No. 949,099; Feb. 15; Sp. p. 2777; Gaz. vol. 151; p. 493.
Check-hook. M. Shoemaker. No. 952,147; Mar. 15; Sp. p. 3407; Gaz. vol. 152; p. 613.
Check-hook. H. E. Lutz. No. 957,512; May 10; Sp. p. 2171; Gaz. vol. 154; p. 375.
Check-identifying machine. F. Hoffman. No. 971,197; Sept. 27; Sp. p. 4386; Gaz. vol. 158; p. 770.
Check, Manifolding salesman's. E. Z. Lewis. No. 972,551; Oct. 11; Sp. p. 2257; Gaz. vol. 159; p. 389.
Check or draft protector. F. O. Kucera. No. 970,341; Sept. 13; Sp. p. 2552; Gaz. vol. 158; p. 430.
Check-pad and pencil-holder, Combined. C. T. Raschick. No. 945,602; Jan. 4; Sp. p. 1274; Gaz. vol. 150; p. 199.
Check-protector, Pocket. F. S. George. No. 971,601; Oct. 4; Sp. p. 201; Gaz. vol. 159; p. 36.
Check reins, Safety-hook for side and over. C. L. V. Mundhenk. No. 945,974; Jan. 11; Sp. p. 2153; Gaz. vol. 150; p. 358.
Check, Sales-. F. G. Lindsay. No. 948,178; Feb. 1; Sp. p. 806; Gaz. vol. 151; p. 134.
Check, Sales-. E. Z. Lewis. No. 972,549; Oct. 11; Sp. p. 2253; Gaz. vol. 159; p. 389.
Checks, Slip-clip for issuing bill-. C. T. Raschick and J. E. Tornquist. No. 946,522; Jan. 11; Sp. p. 3414; Gaz. vol. 150; p. 547.
Checking device. C. G. Harris. No. 960,544; June 7; Sp. p. 630; Gaz. vol. 155; p. 102.
Checkrein. B. J. Grant. No. 946,754; Jan. 18; Sp. p. 3893; Gaz. vol. 150; p. 649.
Checkrein-holder. G. A. Stanton. No. 957,580; May 10; Sp. p. 2298; Gaz. vol. 154; p. 399.
Checkrein-holder. H. W. McIntire. No. 966,947; Aug. 9; Sp. p. 2402; Gaz. vol. 157; p. 395.
Checkrein-holder. P. P. Catalano. No. 974,472; Nov. 1; Sp. p. 913; Gaz. vol. 160; p. 135.
Checkrein-hook, Harness. J. C. Averill. No. 964,603; July 19; Sp. p. 3445; Gaz. vol. 156; p. 589.
Cheese-cover. E. D. Hall. No. 957,053; May 3; Sp. p. 1193; Gaz. vol. 154; p. 189.
Cheese-curd mill. C. Junker. No. 971,506; Sept. 27; Sp. p. 4966; Gaz. vol. 158; p. 869.
Cheese-curds, Obtaining a solid mass out of. L. Erasmus. No. 964,504; July 19; Sp. p. 3200; Gaz. vol. 156; p. 554.
Cheese-cutter. I. E. Lee. No. 948,422; Feb. 8; Sp. p. 1350; Gaz. vol. 151; p. 242.
Cheese-cutter. C. M. Wright. No. 954,662; Apr. 12; Sp. p. 2079; Gaz. vol. 153; p. 365.
Cheese-cutter. L. M. Kuehn. No. 965,114; July 19; Sp. p. 4570; Gaz. vol. 156; p. 762.
Cheese-cutter. H. Bick. No. 973,849; Oct. 25; Sp. p. 5108; Gaz. vol. 159; p. 887.
Cheese cutter, Brick-. A. C. Seibel. No. 954,052; Apr. 5; Sp. p. 738; Gaz. vol. 153; p. 129.
Cheese-cutting device. C. Segale. No. 960,589; June 7; Sp. p. 717; Gaz. vol. 155; p. 118.
Cheese-stirrer. O. H. Moldenhauer. No. 948,933; Feb. 8; Sp. p. 2414; Gaz. vol. 151; p. 411.
Chemical compound. A. Eklund. No. 970,898; Sept. 20; Sp. p. 3767; Gaz. vol. 158; p. 643.
Chemical-feeding device. J. E. Caps. No. 976,148; Nov. 22; Sp. p. 4522; Gaz. vol. 160; p. 784.
Chemical process. W. C. Arsem. No. 979,363; Dec. 20; Sp. p. 4202; Gaz. vol. 161; p. 724.
Chemicals, Package for. C. F. Jenkins. No. 949,708; Feb. 15; Sp. p. 4005; Gaz. vol. 151; p. 696.
Chenille. G. Hedrich. No. 954,570; Apr. 12; Sp. p. 1861; Gaz. vol. 153; p. 333.
Cherry-picker. W. N. Bryers. No. 977,369; Nov. 29; Sp. p. 7258; Gaz. vol. 160; p. 1232.
Cherry-pitter. C. W. Bridgeman. No. 959,450; May 31; Sp. p. 6541; Gaz. vol. 154; p. 1118.
Cherry-pitting machine. S. J. Dunkley. No. 974,759; Nov. 1; Sp. p. 1541; Gaz. vol. 160; p. 237.
Cherry-seeder. S. R. Smith. No. 958,780; May 24; Sp. p. 5143; Gaz. vol. 154; p. 867.
Cherry-seeder. H. Broome. No. 961,838; June 21; Sp. p. 3312; Gaz. vol. 155; p. 590.
Chest: *See* Cigar-chest; Tool-chest.
Chicken-hovel. J. S. Peironnet. No. 959,161; May 24; Sp. p. 5959; Gaz. vol. 154; p. 997.
Child's chair. T. W. Washburn. No. 968,297; Aug. 23; Sp. p. 5255; Gaz. vol. 157; p. 904.
Chill. J. B. Baird. No. 972,429; Oct. 11; Sp. p. 1975; Gaz. vol. 159; p. 346.
Chilling and preserving chamber. M. Mederer. No. 953,343; Mar. 29; Sp. p. 5945; Gaz. vol. 152; p. 1072.
Chimney. J. D. Warren. No. 953,499; Mar. 29; Sp. p. 6290; Gaz. vol. 152; p. 1127.
Chimney-cap. N. Larocque. No. 961,416; June 14; Sp. p. 2406; Gaz. vol. 155; p. 425.
Chimney-cap. J. C. Rothbarth. No. 973,139; Oct. 18; Sp. p. 3589; Gaz. vol. 159; p. 619.
Chimney-cap. E. J. Cochran. No. 976,849; Nov. 29; Sp. p. 6099; Gaz. vol. 160; p. 1049.
Chimney-cleaner. G. S. Stuart. No. 968,207; Aug. 23; Sp. p. 5061; Gaz. vol. 157; p. 872.
Chimney-closure. E. F. Rulison. No. 966,245; Aug. 2; Sp. p. 859; Gaz. vol. 157; p. 137.
Chimney-cover. D. A. Clayton. No. 965,563; July 26; Sp. p. 5566; Gaz. vol. 156; p. 947.
Chimney-cowl. E. C. Powers. No. 975,636; Nov. 15; Sp. p. 3467; Gaz. vol. 160; p. 587.
Chimney cowl or top. G. Thormann. No. 966,370; Aug. 2; Sp. p. 1091; Gaz. vol. 157; p. 175.
Chimney-draft, Device for varying. H. J. Trautmann and J. L. Copping. No. 957,273; May 10; Sp. p. 1688; Gaz. vol. 154; p. 295.
Chimney-flue cleaner. I. I. Oium. No. 966,853; Aug. 9; Sp. p. 2220; Gaz. vol. 157; p. 364.
Chimney-helmet for good draft and weather protection. W. Holm. No. 967,018; Aug. 9; Sp. p. 2558; Gaz. vol. 157; p. 420.
Chimney-holder. L. Sparks. No. 972,275; Oct. 11; Sp. p. 1665; Gaz. vol. 159; p. 293.
Chimney-lining. F. B. Wilkinson. No. 954,234; Apr. 5; Sp. p. 1153; Gaz. vol. 153; p. 192.
Chimney, Non-breakable reticulated. W. P. Pinel. No. 972,640; Oct. 11; Sp. p. 2474; Gaz. vol. 159; p. 421.
Chimney or flue ventilator. S. H. Millman. No. 951,508; Mar. 8; Sp. p. 2129; Gaz. vol. 152; p. 369.
Chimney protector or shield. T. J. Canivan. No. 957,544; May 10; Sp. p. 2239; Gaz. vol. 154; p. 387.
Chimney-thimble guard. J. B. P. Dupont. No. 958,482; May 17; Sp. p. 4530; Gaz. vol. 154; p. 742.
Chimney-top. G. W. Mueninghaus. No. 950,142; Feb. 22; Sp. p. 5015; Gaz. vol. 151; p. 882.
Chimney-top. A. Zwingli. No. 959,415; May 24; Sp. p. 6453; Gaz. vol. 154; p. 1080.
Chimney-top. J. W. Meixell. No. 964,040; July 12; Sp. p. 2233; Gaz. vol. 156; p. 368.
Chimney-top. E. Newman. No. 964,177; July 12; Sp. p. 2513; Gaz. vol. 156; p. 413.
Chimney-top protector. R. C. Owens. No. 979,995; Dec. 27; Sp. p. 5560; Gaz. vol. 161; p. 960.

Alphabetical list of inventions—Continued.

Chimneys and for obtaining draft with bad chimneys, Device for increasing the draft of. G. Geessels. No. 972,847; Oct. 18; Sp. p. 2905; Gaz. vol. 159; p. 517.
Chimneys, Construction of. A. W. Fletcher. No. 973,023; Oct. 18; Sp. p. 3349; Gaz. vol. 159; p. 580.
Chimneys, Water-guard for. W. F. Greenlee. No. 960,088; May 31; Sp. p. 7951; Gaz. vol. 154; p. 1336.
China-cabinet and table, Combined. J. H. Bennett. No. 956,619; May 3; Sp. p. 239; Gaz. vol. 154; p. 41.
China-closet. R. J. Keppel. No. 978,305; Dec. 13; Sp. p. 1928; Gaz. vol. 161; p. 337.
Chiropodist's knife. A. Eskridge. No. 951,309; Mar. 8; Sp. p. 1722; Gaz. vol. 152; p. 303.
Chisel. C. W. Thompson and F. A. Grearson. No. 966,719; Aug. 9; Sp. p. 1899; Gaz. vol. 157; p. 321.
Chisel-bar. R. P. Penrod. No. 971,924; Oct. 4; Sp. p. 888; Gaz. vol. 159; p. 153.
Chisel, Corner-. T. L. Johnson. No. 952,744; Mar. 22; Sp. p. 4669; Gaz. vol. 152; p. 845.
Chisel-protector. C. U. Matthey. No. 978,387; Dec. 13; Sp. p. 2105; Gaz. vol. 161; p. 366.
Chlorates, Purifying. R. Gartenmeister. No. 975,613; Nov. 15; Sp. p. 3416; Gaz. vol. 160; p. 580.
Chlorhydrins and making same. H. V. Walker. No. 972,952; Oct. 18; Sp. p. 3190; Gaz. vol. 159; p. 555.
Chlorid solutions, Producing clear stannic-. E. A. Sperry. No. 967,990; Aug. 23; Sp. p. 4559; Gaz. vol. 157; p. 800.
Chlorid solutions, Regenerating stannic-. J. Weber. No. 958,986; May 24; Sp. p. 5589; Gaz. vol. 154; p. 539.
Chocolate and cocoa, Dietetic. E. Collett and M. Eckardt. No. 952,418; Mar. 15; Sp. p. 3935; Gaz. vol. 152; p. 704.
Chocolate and the like, Machine for molding. G. S. Baker and G. W. Perks. No. 947,405; Jan. 25; Sp. p. 5352; Gaz. vol. 150; p. 897.
Choke-coil. H. J. Beck. No. 965,062; July 19; Sp. p. 4477; Gaz. vol. 156; p. 745.
Chopper: *See* Cotton-chopper; Cotton and beet chopper; Food-chopper; Ice-chopper; Meat-chopper; Stalk-chopper.
Chopper. J. and W. Reagan. No. 964,938; July 19; Sp. p. 4219; Gaz. vol. 156; p. 705.
Chopping-machine. J. J. Kilman. No. 948,510; Feb. 8; Sp. p. 1540; Gaz. vol. 151; p. 272.
Christmas-tree holder. J. S. Huff. No. 958,644; May 17; Sp. p. 4843; Gaz. vol. 154; p. 795.
Christmas-tree-lighting means. E. J. Bumiller. No. 966,520; Aug. 9; Sp. p. 1476; Gaz. vol. 157; p. 253.
Christmas trees, Adjustable light-bracket for. G. J. Bernau. No. 964,840; July 19; Sp. p. 4028; Gaz. vol. 156; p. 670.
Chuck. J. B. Hall. No. 948,685; Feb. 8; Sp. p. 1919; Gaz. vol. 151; p. 329.
Chuck. T. J. Fegley. No. 948,850; Feb. 8; Sp. p. 2267; Gaz. vol. 151; p. 385.
Chuck. T. J. Fegley. No. 952,320; Mar. 15; Sp. p. 3748; Gaz. vol. 152; p. 671.
Chuck. G. J. Thomas. No. 958,980; May 24; Sp. p. 5579; Gaz. vol. 154; p. 537.
Chuck. P. J. Grebel. No. 959,515; May 31; Sp. p. 6699; Gaz. vol. 154; p. 1140.
Chuck. P. F. Krug. No. 961,867; June 21; Sp. p. 3394; Gaz. vol. 155; p. 600.
Chuck. W. E. Anderson. No. 964,195; July 12; Sp. p. 2541; Gaz. vol. 156; p. 419.
Chuck. L. E. Whiton. No. 966,629; Aug. 9; Sp. p. 1703; Gaz. vol. 157; p. 291.
Chuck. L. E. Whiton. No. 966,630; Aug. 9; Sp. p. 1704; Gaz. vol. 157; p. 291.
Chuck. H. F. Neumeyer. No. 966,850; Aug. 9; Sp. p. 2209; Gaz. vol. 157; p. 363.
Chuck. E. R. Sibert. No. 973,985; Oct. 25; Sp. p. 5387; Gaz. vol. 159; p. 935.
Chuck. J. A. Leland. No. 974,896; Nov. 8; Sp. p. 1847; Gaz. vol. 160; p. 307.
Chuck. G. K. Garvin and E. J. McClellan. No. 976,452; Nov. 22; Sp. p. 5250; Gaz. vol. 160; p. 891.
Chuck, Automatic. T. R. Huling and H. L. Craig. No. 951,530; Mar. 8; Sp. p. 2175; Gaz. vol. 152; p. 377.
Chuck, Automatic pneumatic. N. M. Doen. No. 957,194; May 10; Sp. p. 1485; Gaz. vol. 154; p. 265.
Chuck, Bit-brace. H. P. Richards. No. 960,402; June 7; Sp. p. 336; Gaz. vol. 155; p. 56.
Chuck, Bit-brace. E. A. Schade. No. 967,837; Aug. 16; Sp. p. 4242; Gaz. vol. 157; p. 725.
Chuck, Brace-. I. C. Imboden. No. 961,777; June 21; Sp. p. 3176; Gaz. vol. 155; p. 570.
Chuck, Drill-. J. W. Rhyne. No. 949,439; Feb. 15; Sp. p. 3493; Gaz. vol. 151; p. 610.
Chuck, Drill-. N. Drew. No. 955,326; Apr. 19; Sp. p. 3514; Gaz. vol. 153; p. 623.
Chuck, Drill-. E. E. Cogswell. No. 962,746; June 28; Sp. p. 5302; Gaz. vol. 155; p. 926.
Chuck, Drill-. H. W. Fuller. No. 964,416; July 12; Sp. p. 2983; Gaz. vol. 156; p. 492.
Chuck, Drill-. E. E. Cogswell. No. 969,341; Sept. 6; Sp. p. 396; Gaz. vol. 158; p. 64.
Chuck, Drill-. A. Knapp. No. 971,901; Oct. 4; Sp. p. 841; Gaz. vol. 159; p. 144.
Chuck, Drill-. J. A. Dalton. No. 973,345; Oct. 18; Sp. p. 4040; Gaz. vol. 159; p. 691.
Chuck for machine-work. H. O. Evans. No. 971,979; Oct. 4; Sp. p. 1043; Gaz. vol. 159; p. 174.
Chuck, Grinding-. G. W. Fry. No. 975,408; Nov. 15; Sp. p. 2983; Gaz. vol. 160; p. 507.
Chuck, Lathe-. G. J. Blum. No. 945,261; Jan. 4; Sp. p. 531; Gaz. vol. 150; p. 87.
Chuck, Lathe-. R. H. Hurlbut. No. 948,449; Feb. 8; Sp. p. 1406; Gaz. vol. 151; p. 251.
Chuck, Lathe-. H. C. Nelsen. No. 965,216; July 26; Sp. p. 4777; Gaz. vol. 156; p. 826.
Chuck, Lathe-. G. L. Owens. No. 978,055; Dec. 6; Sp. p. 1362; Gaz. vol. 161; p. 218.
Chuck, Planer-. W. Honscheid. No. 970,710; Sept. 20; Sp. p. 3372; Gaz. vol. 158; p. 578.
Chuck, Reinforced lathe-. H. M. Reynolds. No. 960,705; June 7; Sp. p. 950; Gaz. vol. 155; p. 158.
Chuck-removing device. A. W. Schramm. No. 972,575; Oct. 11; Sp. p. 2326; Gaz. vol. 159; p. 399.
Chuck, Rock-drill. H. W. Schorlemmer. No. 950,030; Feb. 22; Sp. p. 4805; Gaz. vol. 151; p. 845.
Chuck, Scroll-. L. E. Whiton. No. 962,070; June 21; Sp. p. 3818; Gaz. vol. 155; p. 669.
Chuck, Spring-. B. M. W. Hanson. No. 968,051; Aug. 23; Sp. p. 4696; Gaz. vol. 157; p. 821.
Chuck, Tapping and drilling. J. A. Dalton. No. 974,239; Nov. 1; Sp. p. 355; Gaz. vol. 160; p. 50.
Chuck, Tool-. J. S. Fray. No. 957,760; May 10; Sp. p. 2675; Gaz. vol. 154; p. 460.
Churn. P. E. Marugg. No. 945,402; Jan. 4; Sp. p. 860; Gaz. vol. 150; p. 134.
Churn. J. E. and T. G. Taylor. No. 945,639; Jan. 4; Sp. p. 1355; Gaz. vol. 150; p. 211.
Churn. A. D. Ramsey. No. 946,398; Jan. 11; Sp. p. 3138; Gaz. vol. 150; p. 505.
Churn. W. P. Barclay. No. 947,631; Jan. 25; Sp. p. 5858; Gaz. vol. 150; p. 973.
Churn. W. H. Brown. No. 948,004; Feb. 1; Sp. p. 466; Gaz. vol. 151; p. 75.
Churn. T. A. Huggins. No. 948,546; Feb. 8; Sp. p. 1610; Gaz. vol. 151; p. 283.
Churn. R. E. Coulthard. No. 948,643; Feb. 8; Sp. p. 1834; Gaz. vol. 151; p. 315.
Churn. G. W. Treece. No. 949,864; Feb. 22; Sp. p. 4388; Gaz. vol. 151; p. 786.
Churn. J. C. Rice. No. 950,056; Feb. 22; Sp. p. 4852; Gaz. vol. 151; p. 854.
Churn. W. J. C. Gaar. No. 950,152; Feb. 22; Sp. p. 5032; Gaz. vol. 151; p. 885.
Churn. J. McLean. No. 950,338; Feb. 22; Sp. p. 5422; Gaz. vol. 151; p. 950.
Churn. R. F. Roger. No. 950,364; Feb. 22; Sp. p. 5459; Gaz. vol. 151; p. 957.
Churn. A. Burch. No. 950,592; Mar. 1; Sp. p. 267; Gaz. vol. 152; p. 44.
Churn. P. B. Southworth. No. 951,462; Mar. 8; Sp. p. 2045; Gaz. vol. 152; p. 354.
Churn. C. Austin. No. 952,296; Mar. 15; Sp. p. 3707; Gaz. vol. 152; p. 663.
Churn. I. F. Stroup. No. 952,649; Mar. 22; Sp. p. 4460; Gaz. vol. 152; p. 812.
Churn. G. T. Hyland. No. 955,074; Apr. 12; Sp. p. 2984; Gaz. vol. 153; p. 506.
Churn. M. C. Winders. No. 955,930; Apr. 26; Sp. p. 4859; Gaz. vol. 153; p. 859.
Churn. F. O. Homme, J. T. Vollen, and I. L. Isaacson. No. 956,639; May 3; Sp. p. 283; Gaz. vol. 154; p. 47.
Churn. W. F. Smithdeal. No. 956,833; May 3; Sp. p. 726; Gaz. vol. 154; p. 115.
Churn. W. S. Pettit. No. 957,248; May 10; Sp. p. 1619; Gaz. vol. 154; p. 286.
Churn. S. M. Hopkins. No. 957,608; May 10; Sp. p. 2347; Gaz. vol. 154; p. 408.
Churn. J. R. Brady. No. 958,585; May 17; Sp. p. 4728; Gaz. vol. 154; p. 776.
Churn. J. L. Laughlin. No. 958,656; May 17; Sp. p. 4862; Gaz. vol. 154; p. 798.
Churn. A. Massie. No. 959,367; May 24; Sp. p. 6370; Gaz. vol. 154; p. 1065.
Churn. N. B. Osher. No. 959,877; May 31; Sp. p. 7463; Gaz. vol. 154; p. 1261.
Churn. E. L. King. No. 960,955; June 7; Sp. p. 1429; Gaz. vol. 155; p. 240.
Churn. J. D. Tucker. No. 961,045; June 7; Sp. p. 1621; Gaz. vol. 155; p. 271.
Churn. R. C. Russell. No. 961,802; June 21; Sp. p. 3221; Gaz. vol. 155; p. 578.
Churn. W. A. Decker. No. 962,947; June 28; Sp. p. 5678; Gaz. vol. 155; p. 995.
Churn. L. Hofer. No. 963,560; July 5; Sp. p. 1194; Gaz. vol. 156; p. 184.
Churn. J. Life. No. 966,455; Aug. 9; Sp. p. 1291; Gaz. vol. 157; p. 231.
Churn. W. F. Perez. No. 967,232; Aug. 16; Sp. p. 3010; Gaz. vol. 157; p. 520.
Churn. J. E. Earnest, Jr. No. 967,891; Aug. 23; Sp. p. 4340; Gaz. vol. 157; p. 766.
Churn. J. L. Dangerfield. No. 968,135; Aug. 23; Sp. p. 4888; Gaz. vol. 157; p. 848.
Churn. M. E. Tynes. No. 969,310; Sept. 6; Sp. p. 328; Gaz. vol. 158; p. 54.

Churn. W. C. Kinser. No. 970,061; Sept. 13; Sp. p. 1986; Gaz. vol. 158; p. 337.
Churn. W. C. Irvine. No. 970,230; Sept. 13; Sp. p. 2338; Gaz. vol. 158; p. 394.
Churn. J. T. Anthony. No. 970,676; Sept. 20; Sp. p. 3291; Gaz. vol. 158; p. 566.
Churn. J. H. Hopkins. No. 970,823; Sept. 20; Sp. p. 3631; Gaz. vol. 158; p. 619.
Churn. J. N. Nall. No. 971,466; Sept. 27; Sp. p. 4889; Gaz. vol. 158; p. 856.
Churn. L. E. and L. E. Marsh. No. 972,556; Oct. 11; Sp. p. 2265; Gaz. vol. 159; p. 391.
Churn. T. J. Jarnagin. No. 975,044; Nov. 8; Sp. p. 2198; Gaz. vol. 160; p. 357.
Churn. J. E. Dinwiddie. No. 977,077; Nov. 29; Sp. p. 6631; Gaz. vol. 160; p. 1130.
Churn. C. N. Choate. No. 978,562; Dec. 13; Sp. p. 2493; Gaz. vol. 161; p. 426.
Churn. W. W. Liles. No. 979,974; Dec. 27; Sp. p. 5521; Gaz. vol. 161; p. 954.
Churn and butter-worker. W. E. Penn. No. 952,685; Mar. 22; Sp. p. 4539; Gaz. vol. 152; p. 825.
Churn and butter-worker, Combined. R. B. Disbrow. No. 949,757; Feb. 22; Sp. p. 4134; Gaz. vol. 151; p. 748.
Churn and butter-worker, Combined. L. A. Disbrow. No. 953,738; Apr. 5; Sp. p. 113; Gaz. vol. 153; p. 22.
Churn and butter-worker, Combined. M. Deeg. No. 954,079; Apr. 5; Sp. p. 795; Gaz. vol. 153; p. 138.
Churn and butter-worker, Combined. R. B. Disbrow. No. 956,310; Apr. 26; Sp. p. 5700; Gaz. vol. 153; p. 992.
Churn and butter-worker, Combined. R. B. Disbrow. No. 961,940; June 21; Sp. p. 3537; Gaz. vol. 155; p. 624.
Churn and butter-worker, Combined. L. A. Disbrow. No. 971,178; Sept. 27; Sp. p. 4351; Gaz. vol. 158; p. 763.
Churn and butter-worker, Combined. D. E. Virtue. No. 979,610; Dec. 27; Sp. p. 4741; Gaz. vol. 161; p. 832.
Churn apparatus, Vacuum. T. Berntson. No. 975,380; Nov. 8; Sp. p. 2926; Gaz. vol. 160; p. 472.
Churn attachment. J. Eckert and F. C. Leppert. No. 952,889; Mar. 22; Sp. p. 4967; Gaz. vol. 152; p. 894.
Churn attachment. W. De Vries. No. 974,244; Nov. 1; Sp. p. 365; Gaz. vol. 160; p. 52.
Churn, Automatic. J. N. Nall. No. 960,680; June 7; Sp. p. 897; Gaz. vol. 155; p. 149.
Churn-body. W. W. Liles. No. 978,763; Dec. 13; Sp. p. 2910; Gaz. vol. 161; p. 492.
Churn-dasher. E. A. Franklin. No. 955,394; Apr. 19; Sp. p. 3681; Gaz. vol. 153; p. 647.
Churn-dasher. J. P. Haislip. No. 968,937; Aug. 30; Sp. p. 6608; Gaz. vol. 157; p. 1150.
Churn-dasher. O. M. Cornwell. No. 972,827; Oct. 18; Sp. p. 2856; Gaz. vol. 159; p. 510.
Churn-dasher. L. A. Sandoe. No. 978,653; Dec. 13; Sp. p. 2689; Gaz. vol. 161; p. 458.
Churn-dasher. W. W. Liles. No. 980,107; Dec. 27; Sp. p. 5833; Gaz. vol. 161; p. 998.
Churn-dasher, Friction-operated. C. A. Fewell. No. 979,274; Dec. 20; Sp. p. 4043; Gaz. vol. 161; p. 696.
Churn, Double-dasher. O. E. Melton. No. 968,675; Aug. 30; Sp. p. 6072; Gaz. vol. 157; p. 1064.
Churn-operating motor, Mechanical. S. F. Dykes. No. 976,857; Nov. 29; Sp. p. 6115; Gaz. vol. 160; p. 1053.
Churn-power. J. E. Mullen. No. 946,615; Jan. 18; Sp. p. 3588; Gaz. vol. 150; p. 604.
Churn, Reciprocating. J. R. Sims. No. 965,956; Aug. 2; Sp. p. 216; Gaz. vol. 157; p. 38.
Churn-top. L. Lewis. No. 947,922; Feb. 1; Sp. p. 298; Gaz. vol. 151; p. 50.
Churns, Butter-collecting appliance for. S. Hartmann. No. 971,041; Sept. 27; Sp. p. 4056; Gaz. vol. 158; p. 718.
Chute. W. Drever. No. 965,624; July 26; Sp. p. 5698; Gaz. vol. 156; p. 968.
Chute. J. E. Brazeal. No. 974,351; Nov. 1; Sp. p. 620; Gaz. vol. 160; p. 94.
Chute, Coal-. M. B. Laing. No. 946,969; Jan. 18; Sp. p. 4397; Gaz. vol. 150; p. 723.
Chute, Coin-detector. R. A. McCracken. No. 980,112; Dec. 27; Sp. p. 5845; Gaz. vol. 161; p. 1000.
Chute, Feed-. J. J. W. Kenan. No. 972,454; Oct. 11; Sp. p. 2026; Gaz. vol. 159; p. 355.
Chute for car-loaders, Adjustable. R. W. Wetherill. No. 978,803; Dec. 13; Sp. p. 2976; Gaz. vol. 161; p. 504.
Chute for directing water to current-motors, Portable. J. K. Brugler. No. 946,104; Jan. 11; Sp. p. 2411; Gaz. vol. 150; p. 401.
Chute, Grain-. E. A. Munn and O. L. Plumtree. No. 945,975; Jan. 11; Sp. p. 2154; Gaz. vol. 150; p. 358.
Chute, Intercepting-. W. W. and J. C. Dorsey. No. 976,852; Nov. 29; Sp. p. 6105; Gaz. vol. 160; p. 1051.
Chute, Merchandise-. C. F. Cormack. No. 961,340; June 14; Sp. p. 2275; Gaz. vol. 155; p. 401.
Chute, Stock-. F. H. Mills. No. 970,344; Sept. 13; Sp. p. 2557; Gaz. vol. 158; p. 431.
Cider-mill. G. L. Putt. No. 965,486; July 26; Sp. p. 5364; Gaz. vol. 156; p. 918.
Cider-press. G. A. Hazelrigg. No. 952,736; Mar. 22; Sp. p. 4644; Gaz. vol. 152; p. 840.
Cigar. F. J. Cuda. No. 972,601; Oct. 11; Sp. p. 2387; Gaz. vol. 159; p. 407.
Cigar. S. Gessler. No. 973,497; Oct. 25; Sp. p. 4377; Gaz. vol. 159; p. 766.
Cigar-ash protector. E. Haller. No. 979,944; Dec. 27; Sp. p. 5466; Gaz. vol. 161; p. 944.
Cigar-band. G. Labarre. No. 959,357; May 24; Sp. p. 6352; Gaz. vol. 154; p. 1062.
Cigar-banding machine. J. J. and T. E. Fearon. No. 958,244; May 17; Sp. p. 3896; Gaz. vol. 154; p. 657.
Cigar-banding machine. O. Hammerstein. No. 972,185; Oct. 11; Sp. p. 1469; Gaz. vol. 159; p. 262.
Cigar banding or labeling machine. F. C. Hayes. No. 969,057; Aug. 30; Sp. p. 6838; Gaz. vol. 157; p. 1191.
Cigar-box. T. E. Fearon. No. 951,728; Mar. 8; Sp. p. 2542; Gaz. vol. 152; p. 443.
Cigar-box, Knockdown. M. Hutchinson. No. 961,964; June 21; Sp. p. 3596; Gaz. vol. 155; p. 632.
Cigar-bunch machine. N. Du Brul. No. 946,663; Jan. 18; Sp. p. 3694; Gaz. vol. 150; p. 618.
Cigar-bunch mold. P. A. E. Scheer. No. 949,845; Feb. 22; Sp. p. 4319; Gaz. vol. 151; p. 778.
Cigar-bunches from molds, Machine for removing. O. Tyberg. No. 947,869; Feb. 1; Sp. p. 190; Gaz. vol. 151; p. 32.
Cigar-bunches from molds, Machine for removing. O. Tyberg. No. 947,870; Feb. 1; Sp. p. 199; Gaz. vol. 151; p. 33.
Cigar-bunches from molds, Machine for removing. O. Tyberg and L. Lake. No. 947,871; Feb. 1; Sp. p. 204; Gaz. vol. 151; p. 33.
Cigar-bunches, Making. J. E. Smith. No. 969,992; Sept. 13; Sp. p. 1834; Gaz. vol. 158; p. 312.
Cigar-butt former. J. Carter. No. 948,646; Feb. 8; Sp. p. 1838; Gaz. vol. 151; p. 316.
Cigar carrying and displaying receptacle. A. G. Kaufmann. No. 958,878; May 24; Sp. p. 5383; Gaz. vol. 154; p. 902.
Cigar-case. S. A. McKittrick. No. 952,752; Mar. 22; Sp. p. 4684; Gaz. vol 152; p. 847.
Cigar-case. C. L'Enfant. No. 976,190; Nov. 22; Sp. p. 4637; Gaz. vol. 160; p. 798.
Cigar-case. C. L'Enfant. No. 979,176; Dec. 20; Sp. p. 3834; Gaz. vol. 161; p. 663.
Cigar-case, Pocket. A. Sargent. No. 964,699; July 19; Sp. p. 3743; Gaz. vol. 156; p. 622.
Cigar-chest. A. Sargent. No. 970,648; Sept. 20; Sp. p. 3232; Gaz. vol. 158; p. 556.
Cigar-clipper. L. B. Dennis. No. 961,110; June 14; Sp. p. 1758; Gaz. vol. 155; p. 319.
Cigar-clipper attachment for pencils. J. C. Thorne. No. 959,272; May 24; Sp. p. 6185; Gaz. vol. 154; p. 1033.
Cigar-cutter. F. and H. P. Eyden. No. 949,822; Feb. 22; Sp. p. 4278; Gaz. vol. 151; p. 771.
Cigar-cutter. E. Walker. No. 951,467; Mar. 8; Sp. p. 2054; Gaz. vol. 152; p. 356.
Cigar-cutter. J. H. Astruck and C. J. Salviolo. No. 953,313; Mar. 29; Sp. p. 5875; Gaz. vol. 152; p. 1061.
Cigar-cutter. A. Emrich. No. 958,610; May 17; Sp. p. 4779; Gaz. vol. 154; p. 784.
Cigar-cutter. E. Walker. No. 962,481; June 28; Sp. p. 4732; Gaz. vol. 155; p. 835.
Cigar-cutter. C. J. Salviolo. No. 964,561; July 19; Sp. p. 3357; Gaz. vol. 156; p. 573.
Cigar-cutter. J. R. Pollock and W. Schreiber. No. 980,123; Dec. 27; Sp. p. 5876; Gaz. vol. 161; p. 1004.
Cigar cutter and lighter. W. A. McAneny. No. 970,533; Sept. 20; Sp. p. 2963; Gaz. vol. 158; p. 516.
Cigar-cutter forming part of a combination-tool. H. A. Chippendale. No. 958,092; May 17; Sp. p. 3594; Gaz. vol. 154; p. 606.
Cigar-holder. E. E. Taliaferro and E. J. Goldsworthy. No. 954,060; Apr. 5; Sp. p. 757; Gaz. vol. 153; p. 132.
Cigar-holder. G. Wolff. No. 972,970; Oct. 18; Sp. p. 3227; Gaz. vol. 159; p. 561.
Cigar-holder. C. F. Pierce. No. 977,834; Dec. 6; Sp. p. 901; Gaz. vol. 161; p. 142.
Cigar-holder for hats. W. W. Katterheinrich. No. 954,740; Apr. 12; Sp. p. 2267; Gaz. vol. 153; p. 393.
Cigar-holder for hats. F. E. Clark. No. 963,869; July 12; Sp. p. 1893; Gaz. vol. 156; p. 311.
Cigar-holder, Trick. M. Primbs. No. 967,668; Aug. 16; Sp. p. 3896; Gaz. vol. 157; p. 668.
Cigar labeling or banding mechanism. F. C. Hayes. No. 969,103; Aug. 30; Sp. p. 6932; Gaz. vol. 157; p. 1207.
Cigar-lighter. C. Dinger. No. 955,058; Apr. 12; Sp. p. 2956; Gaz. vol. 153; p. 501.
Cigar-lighter. F. Stocker. No. 961,264; June 14; Sp. p. 2074; Gaz. vol. 155; p. 373.
Cigar-lighter. F. M. D'Arsi. No. 969,346; Sept. 6; Sp. p. 417; Gaz. vol. 158; p. 67.
Cigar-lighter. J. W. Burnett. No. 972,811; Oct. 18; Sp. p. 2818; Gaz. vol. 159; p. 504.
Cigar-machine. J. D. Lacroix. No. 977,806; Dec. 6; Sp. p. 843; Gaz. vol. 161; p. 132.
Cigar-maker's box and rolling-board. J. Kletti, III. No. 959,060; May 24; Sp. p. 5741; Gaz. vol. 154; p. 963.
Cigar-maker's rolling-board. J. Kletti, III. No. 960,957; June 7; Sp. p. 1436; Gaz. vol. 155; p. 241.
Cigar-making machine. O. Hammerstein. No. 967,187; Aug. 16; Sp. p. 2922; Gaz. vol. 157; p. 506.
Cigar-moistener. J. F. Herbrick. No. 949,430; Feb. 15; Sp. p. 3477; Gaz. vol. 151; p. 607.
Cigar-moistener. I. C. Tetherow. No. 949,606; Feb. 15; Sp. p. 3815; Gaz. vol. 151; p. 664.

Alphabetical list of inventions—Continued.

Cigar mouthpiece and lip-protector. O. Hammerstein. No. 953,419; Mar. 29; Sp. p. 6119; Gaz. vol. 152; p. 1099.
Cigar pointing and finishing device. R. E. Fowler and T. Tuckerman. No. 953,743; Apr. 5; Sp. p. 123; Gaz. vol. 153; p. 24.
Cigar-press. J. King, Sr. No. 953,671; Mar. 29; Sp. p. 6657; Gaz. vol. 152; p. 1186.
Cigar-protector. F. Rackemann. No. 955,900; Apr. 26; Sp. p. 4803; Gaz. vol. 153; p. 849.
Cigar-rolling machine. O. Hammerstein. No. 969,274; Sept. 6; Sp. p. 260; Gaz. vol. 158; p. 43.
Cigar screen and absorber. F. Acker. No. 972,428; Oct. 11; Sp. p. 1974; Gaz. vol. 159; p. 346.
Cigar-tip coating. C. Schroeder, L. E. Levi, and A. J. M. Lasche. No. 951,582; Mar. 8; Sp. p. 2273; Gaz. vol. 152; p. 394.
Cigar-tip cutter. E. Oldenbusch. No. 945,341; Jan. 4; Sp. p. 735; Gaz. vol. 150; p. 113.
Cigar-tip cutter. W. R. Dutemple. No. 950,510; Mar. 1; Sp. p. 104; Gaz. vol. 152; p. 17.
Cigar-tip cutter. L. E. Garrigus. No. 950,692; Mar. 1; Sp. p. 487; Gaz. vol. 152; p. 78.
Cigar-tip cutter. T. F. Pryor, Jr. No. 957,575; May 10; Sp. p. 2290; Gaz. vol. 154; p. 397.
Cigar tip-cutter and lighter. H. F. Lichty. No. 964,171; July 12; Sp. p. 2503; Gaz. vol. 156; p. 411.
Cigar-wrapper. E. N. Gilfillan. No. 961,692; June 14; Sp. p. 2988; Gaz. vol. 155; p. 518.
Cigar-wrapper cutter. R. Borgfeldt. No. 953,941; Apr. 5; Sp. p. 511; Gaz. vol. 153; p. 93.
Cigar-wrapper cutting and rolling machine. B. A. Williams. No. 964,076; July 12; Sp. p. 2308; Gaz. vol. 156; p. 380.
Cigars, cigarettes, &c., Case for. R. A. Nock. No. 970,258; Sept. 13; Sp. p. 2398; Gaz. vol. 158; p. 404.
Cigars with hollow tips, Making. A. Baer. No. 956,022; Apr. 26; Sp. p. 5046; Gaz. vol. 153; p. 892.
Cigarette and cigar holder. J. D. Etcheverry and P. P. Figueroa. No. 971,497; Sept. 27; Sp. p. 4947; Gaz. vol. 158; p. 866.
Cigarette-box. C. Campus. No. 953,318; Mar. 29; Sp. p. 5883; Gaz. vol. 152; p. 1062.
Cigarette-case. F. J. Palmer. No. 946,263; Jan. 11; Sp. p. 2760; Gaz. vol. 150; p. 459.
Cigarette-case. J. Chatellier. No. 951,592; Mar. 8; Sp. p. 2291; Gaz. vol. 152; p. 397.
Cigarette-cutting machine, Continuous-. H. Bilgram. No. 955,113; Apr. 12; Sp. p. 3046; Gaz. vol. 153; p. 517.
Cigarette-former. H. E. Robinson. No. 960,110; May 31; Sp. p. 7991; Gaz. vol. 154; p. 1343.
Cigarette-former. M. G. Gillette. No. 961,118; June 14; Sp. p. 1777; Gaz. vol. 155; p. 322.
Cigarette-holder receptacle. J. C. Darst. No. 974,128; Nov. 1; Sp. p. 46; Gaz. vol. 160; p. 10.
Cigarette-machine. M. Pollak. No. 970,110; Sept. 13; Sp. p. 2076; Gaz. vol. 158; p. 353.
Cigarette-machine. J. J. Daprato. No. 976,441; Nov. 22; Sp. p. 5227; Gaz. vol. 160; p. 887.
Cigarette-machine. P. J. Meahl. No. 978,919; Dec. 20; Sp. p. 3215; Gaz. vol. 161; p. 571.
Cigarette machine and case. F. W. Donning. No. 949,677; Feb. 15; Sp. p. 3936; Gaz. vol. 151; p. 686.
Cigarette-machine, Portable. G. H. Carter. No. 970,016; Sept. 13; Sp. p. 1890; Gaz. vol. 158; p. 321.
Cigarette machinery. E. Pugibet. No. 973,698; Oct. 25; Sp. p. 4806; Gaz. vol. 159; p. 835.
Cigarette-maker. R. Pattin. No. 947,122; Jan. 18; Sp. p. 4673; Gaz. vol. 150; p. 771.
Cigarette-making device, Pocket. H. C. Karlson. No. 977,954; Dec. 6; Sp. p. 1148; Gaz. vol. 161; p. 185.
Cigarette-manufacturing machine. D. Weil. No. 966,279; Aug. 2; Sp. p. 920; Gaz. vol. 157; p. 147.
Cigarette-mouthpiece machine. W. Benjaminowitsch. No. 976,624; Nov. 22; Sp. p. 5609; Gaz. vol. 160; p. 949.
Cigarette-packing machine. H. Bilgram. No. 954,917; Apr. 12; Sp. p. 2693; Gaz. vol. 153; p. 455.
Cigarette-roller and tobacco-box, Combined. M. Kronauer. No. 978,170; Dec. 13; Sp. p. 1636; Gaz. vol. 161; p. 289.
Cigarette-tip. H. P. Strause. No. 968,284; Aug. 23; Sp. p. 5230; Gaz. vol. 157; p. 900.
Cigarette-tipping machine. A. Boucher. No. 970,011; Sept. 13; Sp. p. 1878; Gaz. vol. 158; p. 320.
Cigarette-tipping machine. G. B. Hutton. No. 977,015; Nov. 29; Sp. p. 6500; Gaz. vol. 160; p. 1109.
Cigarette-tipping machine, Individual-. A. Boucher. (Reissue.) No. 13,105; Apr. 19; Sp. p. 4649; Gaz. vol. 153; p. 803.
Cigarette tubes or cases, Machine for making and fitting mouthpieces to. J. Guiniffet, A. Benoit, and J. Nicault. No. 953,417; Mar. 29; Sp. p. 6114; Gaz. vol. 152; p. 1098.
Cigarette-wrapper-forming machine. R. Baird. No. 953,503; Mar. 29; Sp. p. 6297; Gaz. vol. 152; p. 1129.
Cigarettes and the like, Mouthpiece for. J. W. Surbrug. No. 973,890; Oct. 25; Sp. p. 5199; Gaz. vol. 159; p. 902.
Cigarettes, cigars, or tobacco, Box for. C. Campus. No. 964,211; July 12; Sp. p. 2574; Gaz. vol. 156; p. 424.
Cigarettes, Machine for applying spirally-wound mouthpieces to wrappers or shells for. L. Lindelöf. No. 964,663; July 19; Sp. p. 3560; Gaz. vol. 156; p. 609.
Circuit-breaker. E. M. Hewlett. No. 946,220; Jan. 11; Sp. p. 2655; Gaz. vol. 150; p. 442.
Circuit-breaker. P. H. Thomas. No. 952,153; Mar. 15; Sp. p. 3421; Gaz. vol. 152; p. 615.
Circuit-breaker. C. T. Henderson. No. 957,334; May 10; Sp. p. 1815; Gaz. vol. 154; p. 316.
Circuit-breaker. M. J. Wohl and H. Hertzberg. No. 959,827; May 31; Sp. p. 7354; Gaz. vol. 154; p. 1245.
Circuit-breaker. E. H. Smythe. No. 960,049; May 31; Sp. p. 7882; Gaz. vol. 154; p. 1323.
Circuit-breaker. E. A. Burrows and F. P. McIntosh. No. 963,859; July 12; Sp. p. 1873; Gaz. vol. 156; p. 307.
Circuit-breaker. J. Young. No. 965,549; July 26; Sp. p. 5532; Gaz. vol. 156; p. 942.
Circuit-breaker. W. E. Richards. No. 966,360; Aug. 2; Sp. p. 1069; Gaz. vol. 157; p. 272.
Circuit-breaker. H. L. Van Valkenburg. No. 969,813; Sept. 13; Sp. p. 1449; Gaz. vol. 158; p. 251.
Circuit-breaker. F. L. Sessions. No. 971,082; Sept. 27; Sp. p. 4148; Gaz. vol. 158; p. 732.
Circuit-breaker. J. C. Dow. No. 973,924; Oct. 25; Sp. p. 5266; Gaz. vol. 159; p. 913.
Circuit-breaker. F. W. Harris. No. 975,421; Nov. 15; Sp. p. 3005; Gaz. vol. 160; p. 512.
Circuit-breaker. F. W. Harris. No. 978,882; Dec. 20; Sp. p. 3139; Gaz. vol. 161; p. 557.
Circuit-breaker, Automatic. C. T. Hentschel. No. 957,335; May 10; Sp. p. 1817; Gaz. vol. 154; p. 317.
Circuit-breaker, Automatic. H. W. Leonard. No. 960,970; June 7; Sp. p. 1460; Gaz. vol. 155; p. 245.
Circuit-breaker, Automatic magnetic. W. M. Scott. No. 966,708; Aug. 9; Sp. p. 1854; Gaz. vol. 157; p. 317.
Circuit-breaker for electrically-heated devices. W. G. Nagel. No. 948,704; Feb. 8; Sp. p. 1960; Gaz. vol. 151; p. 336.
Circuit-breaker-retarding device. C. E. Eveleth. No. 957,319; May 10; Sp. p. 1782; Gaz. vol. 154; p. 311.
Circuit-breaking mechanism. W. M. Scott. No. 963,476; July 5; Sp. p. 1026; Gaz. vol. 156; p. 155.
Circuit-changer. P. J. Doyle. No. 951,601; Mar. 8; Sp. p. 2303; Gaz. vol. 152; p. 400.
Circuit-closer. H. H. Cutler. No. 955,323; Apr. 19; Sp. p. 3509; Gaz. vol. 153; p. 622.
Circuit-closer. R. P. Lumley and H. G. Hillman. No. 956,118; Apr. 26; Sp. p. 5267; Gaz. vol. 153; p. 925.
Circuit-closer. H. C. Thomson. No. 959,435; May 24; Sp. p. 6484; Gaz. vol. 154; p. 1086.
Circuit-closer. H. B. Collier. No. 978,849; Dec. 20; Sp. p. 3061; Gaz. vol. 161; p. 545.
Circuit-closer, Automatic. T. W. McKenzie. No. 949,593; Feb. 15; Sp. p. 3788; Gaz. vol. 151; p. 659.
Circuit-closer for electromagnetic apparatus, Thermic. G. White. No. 972,964; Oct. 18; Sp. p. 3215; Gaz. vol. 159; p. 559.
Circuit-closer, Mobile. F. E. Town. No. 968,208; Aug. 23; Sp. p. 5062; Gaz. vol. 157; p. 873.
Circuit closer or timer. W. J. Rapp. No. 957,713; May 10; Sp. p. 2569; Gaz. vol. 154; p. 444.
Circuit-closing device. L. R. Saunders. No. 973,818; Oct. 25; Sp. p. 5042; Gaz. vol. 159; p. 876.
Circuit-conductors, Binding device for. T. E. Murray. No. 970,087; Sept. 13; Sp. p. 2035; Gaz. vol. 158; p. 345.
Circuit-conductors, Shield for. T. E. Murray. No. 979,544; Dec. 27; Sp. p. 4585; Gaz. vol. 161; p. 808.
Circuit-controlled switch. W. Richmond. No. 949,844; Feb. 22; Sp. p. 4317; Gaz. vol. 151; p. 778.
Circuit-controller. S. Cabot. No. 954,716; Apr. 12; Sp. p. 2194; Gaz. vol. 153; p. 383.
Circuit-controller. E. Rothwell. No. 961,164; June 14; Sp. p. 1863; Gaz. vol. 155; p. 338.
Circuit-controller. F. I. Getty. No. 961,951; June 21; Sp. p. 3563; Gaz. vol. 155; p. 628.
Circuit-controller. H. E. Leppert. No. 963,301; July 5; Sp. p. 681; Gaz. vol. 156; p. 96.
Circuit-controller. K. L. Curtis. No. 969,607; Sept. 6; Sp. p. 979; Gaz. vol. 158; p. 155.
Circuit-controller. W. A. Atwood. No. 973,613; Oct. 25; Sp. p. 4622; Gaz. vol. 159; p. 804.
Circuit-controller, Low-speed. F. B. Corey. No. 967,171; Aug. 16; Sp. p. 2888; Gaz. vol. 157; p. 500.
Circuit-controller-retarding device. E. A. Halbleib. No. 968,468; Aug. 23; Sp. p. 5589; Gaz. vol. 157; p. 964.
Circuit-controlling apparatus. L. C. Nicholson. No. 959,787; May 31; Sp. p. 7249; Gaz. vol. 154; p. 1230.
Circuit-controlling apparatus. L. C. Nicholson. No. 959,788; May 31; Sp. p. 7258; Gaz. vol. 154; p. 1231.
Circuit-controlling apparatus, Time. A. P. Nelson. No. 965,534; July 26; Sp. p. 5494; Gaz. vol. 156; p. 936.
Circuit-controlling device. P. Dunning. No. 970,478; Sept. 20; Sp. p. 2846; Gaz. vol. 158; p. 497.
Circuit-controlling device. J. K. Lux. No. 970,523; Sept. 20; Sp. p. 2944; Gaz. vol. 158; p. 513.
Circuit-controlling device, Automatic. W. C. Yates and W. O. Lum. No. 957,452; May 10; Sp. p. 2051; Gaz. vol. 154; p. 356.
Circuit-controlling devices, Operating means for. J. K. Lux. No. 966,457; Aug. 9; Sp. p. 1294; Gaz. vol. 157; p. 232.
Circuit-controlling mechanism. C. H. Moores. No. 945,472; Jan. 4; Sp. p. 999; Gaz. vol. 150; p. 156.
Circuit-controlling mechanism. W. A. Atwood. No. 970,600; Sept. 20; Sp. p. 3098; Gaz. vol. 158; p. 540.

Circuit-controlling mechanism. F. Bechoff. No. 974,112; Nov. 1; Sp. p. 13; Gaz. vol. 160; p. 5.
Circuit detector, Short-. F. C. Reineking. No. 966,766; Aug. 9; Sp. p. 2032; Gaz. vol. 157; p. 338.
Circuit disconnecting-switch, High-potential-. S. Q. Hayes. No. 975,422; Nov. 15; Sp. p. 3006; Gaz. vol. 160; p. 512.
Circuit-interrupter. F. W. Harris. No. 973,938; Oct. 25; Sp. p. 5292; Gaz. vol. 159; p. 918.
Circuit-interrupter. C. B. Auel and J. R. Spurrier. No. 974,109; Nov. 1; Sp. p. 3; Gaz. vol. 160; p. 3.
Circuit-maintenance system. A. Goldstein. No. 967,633; Aug. 16; Sp. p. 3825; Gaz. vol. 157; p. 657.
Circuit make-and-break device. J. E. Scovill. No. 957,578; May 10; Sp. p. 2295; Gaz. vol. 154; p. 398.
Circuit-opener. C. C. Badeau. No. 976,838; Nov. 29; Sp. p. 6067; Gaz. vol. 160; p. 1046.
Circuit-protecting apparatus. J. E. Graybill. No. 969,361; Sept. 6; Sp. p. 446; Gaz. vol. 158; p. 72.
Circuit, Substation-. J. J. Lyng. No. 976,196; Nov. 22; Sp. p. 4649; Gaz. vol. 160; p. 800.
Circuit-switch. L. Wilson. No. 970,410; Sept. 13; Sp. p. 2681; Gaz. vol. 158; p. 453.
Circuit-wire-covering pipes, Connecting device for. T. E. Murray. No. 949,243; Feb. 15; Sp. p. 3060; Gaz. vol. 151; p. 541.
Circuits, Compounding alternating-current. W. Stanley. No. 946,829; Jan. 18; Sp. p. 4080; Gaz. vol. 150; p. 675.
Circuits, Means for neutralizing induced disturbances in intelligence-transmission. C. F. Scott. No. 969,499; Sept. 6; Sp. p. 737; Gaz. vol. 158; p. 117.
Circuits, Multiple drop-hoist system of. A. M. Coyle. No. 965,442; July 26; Sp. p. 5273; Gaz. vol. 156; p. 903.
Cistern. C. Fischer. No. 951,683; Mar. 8; Sp. p. 2472; Gaz. vol. 152; p. 428.
Cistern-cleaner, Automatic. L. Thiem. No. 969,997; Sept. 13; Sp. p. 1849; Gaz. vol. 158; p. 314.
Cistern-cleaner closure. G. T. Moore. No. 974,416; Nov. 1; Sp. p. 760; Gaz. vol. 160; p. 115.
Cistern-cover. J. E. Hewitt. No. 979,004; Dec. 20; Sp. p. 3427; Gaz. vol. 161; p. 602.
Cistern-form. C. B. Elliott. No. 949,172; Feb. 15; Sp. p. 2920; Gaz. vol. 151; p. 518.
Clamp: *See* Adjustable clamp; Adjustable and quick-acting clamp; Adjusting-clamp; Axle-clamp; Beam-clamp; Bed-clamp; Belt-clamp; Bench-clamp; Box-clamp; Box-lid clamp; Brace-clamp; Cable-clamp; Clothes-clamp; Cord-clamp; Corner-clamp; Corset-clamp; Cover-clamp; Curtain-fastener clamp; Door-supporting clamp; Draw-clamp; Fence-clamp; Fence-wire clamp; Filing-cabinet clamp; Fishing-rod reel-clamp; Floor-clamp; Furniture-clamp; Ground-clamp; Hand-clamp; Hose-clamp; Hydraulic safety-clamp; Insulator-clamp; Internal clamp; Lace-clamp; Lathe-head clamp; Meat-clamp; Miter-clamp; Molder's clamp; Pipe-clamp; Rail-clamp; Rail-joint clamp; Razor-strop clamp; Rod-clamp; Rope-clamp; Rope and chain clamp; Saw-clamp; Screw-clamp; Sewing-clamp; Side-board clamp; Spike-clamp; Stovepipe-clamp; Surgical clamp; Surveying-instrument clamp; Suspension-clamp; Table-clamp; Terminal clamp; Testing-clamp; Tire-clamp; Tire-locking clamp; Tool-head clamp; Trim-clamp; Trolley-clamp; Trolley-conductor clamp; Trough-clamp; Type-writer clamp; Washboard-clamp; Welding-machine clamp; Wire-clamp; Wire-rope clamp; Wire-stretching clamp.
Clamp. A. R. Peglar. No. 946,152; Jan. 11; Sp. p. 2509; Gaz. vol. 150; p. 418.
Clamp. W. L. Glidden. No. 947,811; Feb. 1; Sp. p. 59; Gaz. vol. 151; p. 13.
Clamp. S. H. Gensburg. No. 951,001; Mar. 1; Sp. p. 1113; Gaz. vol. 152; p. 180.
Clamp. N. Bouma. No. 952,182; Mar. 15; Sp. p. 3465; Gaz. vol. 152; p. 623.
Clamp. E. E. Koken. No. 954,524; Apr. 12; Sp. p. 1770; Gaz. vol. 153; p. 318.
Clamp. P. Bondreau. No. 960,258; June 7; Sp. p. 29; Gaz. vol. 155; p. 9.
Clamp. K. B. Faris and J. D. Walker. No. 964,412; July 12; Sp. p. 2977; Gaz. vol. 156; p. 491.
Clamp. G. A. Carlson. No. 966,426; Aug. 9; Sp. p. 1211; Gaz. vol. 157; p. 220.
Clamp. L. J. Everest. No. 968,038; Aug. 23; Sp. p. 4673; Gaz. vol. 157; p. 816.
Clamp. G. E. Browne. No. 969,771; Sept. 13; Sp. p. 1341; Gaz. vol. 158; p. 237.
Clamp. F. C. Gillitt. No. 971,438; Sept. 27; Sp. p. 4840; Gaz. vol. 158; p. 847.
Clamp. E. Athey. No. 976,334; Nov. 22; Sp. p. 4976; Gaz. vol. 160; p. 848.
Clamp. S. R. Paradise. No. 976,829; Nov. 22; Sp. p. 6024; Gaz. vol. 160; p. 1018.
Clamp. W. L. Herrick. No. 977,738; Dec. 6; Sp. p. 702; Gaz. vol. 161; p. 109.
Clamp. P. Jensen. No. 977,802; Dec. 6; Sp. p. 835; Gaz. vol. 161; p. 131.
Clamp-press. W. D. Osborn. No. 957,793; May 10; Sp. p. 2748; Gaz. vol. 154; p. 470.
Clamp-stirrup. E. J. Metzger and J. A. Moore. No. 949,241; Feb. 15; Sp. p. 3057; Gaz. vol. 151; p. 541.
Clamping attachment. J. Seil. No. 949,332; Feb. 15; Sp. p. 3255; Gaz. vol. 151; p. 572.
Clamping device. H. H. Hall. No. 947,282; Jan. 25; Sp. p. 5052; Gaz. vol. 150; p. 854.
Clamping device. F. Gerth. No. 962,566; June 28; Sp. p. 4935; Gaz. vol. 155; p. 864.
Clamping device. A. Hansen. No. 973,654; Oct. 25; Sp. p. 4715; Gaz. vol. 159; p. 820.
Clamping device. W. Clore. No. 975,832; Nov. 15; Sp. p. 3866; Gaz. vol. 160; p. 653.
Clamping device. W. J. Cannady. No. 975,934; Nov. 15; Sp. p. 4081; Gaz. vol. 160; p. 688.
Clamping device. S. R. Paradise. No. 976,828; Nov. 22; Sp. p. 6023; Gaz. vol. 160; p. 1017.
Clamping mechanism. J. C. Meloon. No. 971,771; Oct. 4; Sp. p. 545; Gaz. vol. 159; p. 95.
Clarifier and filter, Centrifugal. T. B. Marshall. No. 955,890; Apr. 26; Sp. p. 4780; Gaz. vol. 153; p. 846.
Clarinet. F. Ramos. No. 950,602; Mar. 1; Sp. p. 290; Gaz. vol. 152; p. 48.
Clasp: *See* Belt-clasp; Book-clasp; Button-clasp; Corset-clasp; Fabric-clasp; Garment-clasp; Garment-supporter clasp; Hose-supporter clasp; Index-clasp; Pocket-clasp; Safety-clasp; String-clasp; Tie-clasp.
Clasp. G. A. Larson. No. 948,398; Feb. 8; Sp. p. 1302; Gaz. vol. 151; p. 234.
Clasp. A. O. Boyland. No. 948,917; Feb. 8; Sp. p. 2390; Gaz. vol. 151; p. 407.
Clasp. W. C. Michael. No. 949,938; Feb. 22; Sp. p. 4546; Gaz. vol. 151; p. 812.
Clasp. T. Fabritius. No. 950,764; Mar. 1; Sp. p. 646; Gaz. vol. 152; p. 104.
Clasp. H. Strasburg and L. Feingold. No. 951,708; Mar. 8; Sp. p. 2506; Gaz. vol. 152; p. 436.
Clasp. G. F. Prevear. No. 953,348; Mar. 29; Sp. p. 5959; Gaz. vol. 152; p. 1074.
Clasp. W. T. Blasdell. No. 957,488; May 10; Sp. p. 2115; Gaz. vol. 154; p. 367.
Clasp. R. A. Moore. No. 963,619; July 5; Sp. p. 1319; Gaz. vol. 156; p. 203.
Clasp. G. T. Chapman. No. 967,610; Aug. 16; Sp. p. 3781; Gaz. vol. 157; p. 650.
Clasp. C. H. Stahl. No. 970,567; Sept. 20; Sp. p. 3038; Gaz. vol. 158; p. 529.
Clasp. A. T. Van Alstyn. No. 973,147; Oct. 18; Sp. p. 3610; Gaz. vol. 159; p. 622.
Clasp. A. T. Van Alstyn. No. 973,148; Oct. 18; Sp. p. 3612; Gaz. vol. 159; p. 623.
Clasp. B. Nelson. No. 975,063; Nov. 8; Sp. p. 2235; Gaz. vol. 160; p. 364.
Clasp. S. Zeugschmidt. No. 975,102; Nov. 8; Sp. p. 2314; Gaz. vol. 160; p. 378.
Clasp or buckle. G. P. Spangler. No. 972,937; Oct. 18; Sp. p. 3155; Gaz. vol. 159; p. 550.
Clasp or buckle. D. Kops and J. J. Buchanan. No. 974,977; Nov. 8; Sp. p. 2059; Gaz. vol. 160; p. 336.
Claw and pinch bar, Combination. M. S. Clarke. No. 957,190; May 10; Sp. p. 1480; Gaz. vol. 154; p. 264.
Claw-bar. W. Waddell. No. 977,986; Dec. 6; Sp. p. 1217; Gaz. vol. 161; p. 196.
Clay and sand screen. A. W. Holl. No. 977,009; Nov. 29; Sp. p. 6489; Gaz. vol. 160; p. 1107.
Clay ballast, Device for use in producing burnt-. G. M. Bennett. No. 949,141; Feb. 15; Sp. p. 2871; Gaz. vol. 151; p. 508.
Clay loader and scraper. W. A. Mohrbach. No. 974,905; Nov. 8; Sp. p. 1873; Gaz. vol. 160; p. 310.
Clay products, Carrier for green-. T. Louden. No. 945,561; Jan. 4; Sp. p. 1199; Gaz. vol. 150; p. 185.
Clay-screen. J. A. Lawlor. No. 973,441; Oct. 18; Sp. p. 4244; Gaz. vol. 159; p. 723.
Clay-tempering blade. J. H. Bach. No. 978,536; Dec. 13; Sp. p. 2413; Gaz. vol. 161; p. 416.
Clean-out fitting. C. Colombo. No. 954,852; Apr. 12; Sp. p. 2533; Gaz. vol. 153; p. 432.
Cleaner: *See* Automatic cleaner; Bag-cleaner; Boiler-cleaner; Boiler-flue cleaner; Boiler-tube cleaner; Boiler tube and flue cleaner; Bolt-cleaner; Boot and shoe cleaner; Bottle and lamp-chimney cleaner; Brush-cleaner; Chimney-cleaner; Chimney-flue cleaner; Cistern-cleaner; Comb-cleaner; Corn-cleaner; Cotton-cleaner; Cotton-grabot cleaner; Cuspidor-cleaner; Diaper-cleaner; Dish-cleaner; Eraser-cleaner; Fiber-cleaner; Floor-cleaner; Flue-cleaner; Fruit-cleaner; Gas-cleaner; Gin-saw cleaner; Glass-cleaner; Gun-cleaner; Knife-cleaner; Lamp-cleaner; Main and pipe cleaner; Ore-cleaner; Pipe-cleaner; Plow-cleaner; Pneumatic cleaner; Pneumatic suction-cleaner; Potato-cleaner; Rail-cleaner; Rake-tooth cleaner; Rust-cleaner; Sad-iron cleaner; Seed-cleaner; Ship-hull cleaner; Shoe-cleaner; Sieve-cloth cleaner; Slate-cleaner; Smoke-cleaner; Smut-cleaner; Spot-cleaner; Stovepipe-cleaner; Suction-cleaner; Track-cleaner; Trolley-pole ice-cleaner; Tube-cleaner; Type-cleaner; Vacuum-cleaner; Window-cleaner.
Cleaning and separating machine. A. T. Hedfeldt. No. 971,608; Oct. 4; Sp. p. 217; Gaz. vol. 159; p. 38.
Cleaning apparatus. A. H. Squier. No. 961,816; June 21; Sp. p. 3270; Gaz. vol. 155; p. 583.
Cleaning apparatus. T. J. and D. M. Winans. No. 975,095; Nov. 8; Sp. p. 2293; Gaz. vol. 160; p. 375.
Cleaning, Apparatus for chemical. H. Resch. No. 959,883; May 31; Sp. p. 7478; Gaz. vol. 154; p. 1264.

Alphabetical list of inventions—Continued.

Cleaning apparatus, Relief device for. A. G. Gekeler. No. 953,825; Apr. 5; Sp. p. 288; Gaz. vol. 153; p. 51.
Cleaning apparatus, Vacuum. C. R. Pollard. No. 945,343; Jan. 4; Sp. p. 742; Gaz. vol. 150; p. 113.
Cleaning device. G. Clements and J. M. Hostler. No. 970,466; Sept. 20; Sp. p. 2821; Gaz. vol. 158; p. 493.
Cleaning device. W. J. Bergens. No. 971,518; Oct. 4; Sp. p. 16; Gaz. vol. 159; p. 5.
Cleaning device, Vacuum. J. H. Goehst and J. A. Dunlap. No. 950,767; Mar. 1; Sp. p. 660; Gaz. vol. 152; p. 106.
Cleaning-machine. C. L. Goughnour. No. 968,934; Aug. 30; Sp. p. 6603; Gaz. vol. 157; p. 1149.
Cleaning-machine. A. A. H. Börjeson and E. A. Fagerlund. No. 976,775; Nov. 22; Sp. p. 5928; Gaz. vol. 160; p. 1000.
Cleaning-machine. J. N. Hollis. No. 978,749; Dec. 13; Sp. p. 2885; Gaz. vol. 161; p. 488.
Cleaning-tool. I. H. Spencer. No. 969,913; Sept. 13; Sp. p. 1660; Gaz. vol. 158; p. 286.
Cleansing-cloth and producing same. J. Berlik. No. 952,868; Mar. 22; Sp. p. 4927; Gaz. vol. 152; p. 887.
Cleat. H. P. Hedrick. No. 963,552; July 5; Sp. p. 1179; Gaz. vol. 156; p. 181.
Cleat and rosette, Combined. F. Schimpf. No. 978,941; Dec. 20; Sp. p. 3265; Gaz. vol. 161; p. 579.
Cleaver, Butcher's. W. S. Ward. No. 953,725; Apr. 5; Sp. p. 87; Gaz. vol. 153; p. 18.
Clevis. G. H. Johnson. No. 958,645; May 17; Sp. p. 4844; Gaz. vol. 154; p. 795.
Clevis. R. H. Hammock. No. 959,430; May 24; Sp. p. 6476; Gaz. vol. 154; p. 1085.
Clevis. J. Hitzert. No. 961,232; June 14; Sp. p. 2011; Gaz. vol. 155; p. 363.
Clevis. T. S. Moffett. No. 961,881; June 21; Sp. p. 3425; Gaz. vol. 155; p. 605.
Clevis. T. D. Besten. No. 963,501; July 5; Sp. p. 1075; Gaz. vol. 156; p. 164.
Clevis. M. Cassidy. No. 972,998; Oct. 18; Sp. p. 3283; Gaz. vol. 159; p. 571.
Clevis. N. A. Niemie. No. 975,786; Nov. 15; Sp. p. 3784; Gaz. vol. 160; p. 637.
Clevis. C. A. Norman. No. 978,330; Dec. 13; Sp. p. 1986; Gaz. vol. 161; p. 346.
Clevises, Pin-locking means for. G. E. Mills. No. 948,237; Feb. 1; Sp. p. 935; Gaz. vol. 151; p. 153.
Clicking-press. F. R. Fuller. No. 974,373; Nov. 1; Sp. p. 668; Gaz. vol. 160; p. 100.
Clinometer for well-bores. A. F. L. Bell. No. 959,912; May 31; Sp. p. 7542; Gaz. vol. 154; p. 1274.
Clinometer, Line-. E. H. Holden. No. 957,059; May 3; Sp. p. 1202; Gaz. vol. 154; p. 191.
Clinometer, Spirit-level. L. Bergh. No. 964,199; July 12; Sp. p. 2550; Gaz. vol. 156; p. 420.
Clip: *See* Buggy-top clip; Cable-clip; Chain-clip; Channel-iron clip; Clothes-line clip; Connecting-clip; Corner-bead clip; Damper-clip; Electric terminal clip; File-clip; Hame-clip; Metal clip; Paper-clip; Pen and pencil clip; Pen or pencil clip; Pencil-clip; Rail-clip; Ribbon-clip; Spoke and felly clip; Spring-clip; Swingletree-clip; Test-clip; Ticket-clip; Whiffletree-clip; Wire-clip.
Clip. E. Hahn. No. 964,247; July 12; Sp. p. 2651; Gaz. vol. 156; p. 437.
Clip-cap. J. W. Kessel. No. 955,517; Apr. 19; Sp. p. 3929; Gaz. vol. 153; p. 689.
Clip tie or gland puller. L. Hammond. No. 950,849; Mar. 1; Sp. p. 827; Gaz. vol. 152; p. 133.
Clipper. A. W. Rabe. No. 949,779; Feb. 22; Sp. p. 4181; Gaz. vol. 151; p. 755.
Clipper, Fruit and flower. J. B. Tuttle. No. 972,417; Oct. 11; Sp. p. 1954; Gaz. vol. 159; p. 343.
Clipper, Motor-driven hair-. E. F. Ponath. No. 973,696; Oct. 25; Sp. p. 4800; Gaz. vol. 159; p. 834.
Clipping and pruning instrument, Fruit. B. J. Cloes. No. 974,553; Nov. 1; Sp. p. 1103; Gaz. vol. 160; p. 166.
Clipping-machines, Nap-regulating attachment for. J. H. Starr. No. 952,475; Mar. 22; Sp. p. 4069; Gaz. vol. 152; p. 752.
Clock. A. M. Yeakel. No. 948,363; Feb. 8; Sp. p. 1215; Gaz. vol. 151; p. 222.
Clock. A. M. Yeakel. No. 948,912; Feb. 8; Sp. p. 2382; Gaz. vol. 151; p. 405.
Clock. E. A. Hummel. No. 949,705; Feb. 15; Sp. p. 4000; Gaz. vol. 151; p. 696.
Clock. E. E. Dungan and C. M. Klump. No. 964,005; July 12; Sp. p. 2171; Gaz. vol. 156; p. 355.
Clock. F. W. Moore. No. 966,038; Aug. 2; Sp. p. 418; Gaz. vol. 157; p. 67.
Clock. F. S. Phinney and O. Adams. No. 967,428; Aug. 16; Sp. p. 3413; Gaz. vol. 157; p. 588.
Clock. F. Phinney. No. 967,429; Aug. 16; Sp. p. 3415; Gaz. vol. 157; p. 588.
Clock. E. E. Dungan. No. 970,198; Sept. 13; Sp. p. 2261; Gaz. vol. 158; p. 383.
Clock. J. J. Busenbenz. No. 973,854; Oct. 25; Sp. p. 5116; Gaz. vol. 159; p. 888.
Clock. J. D. Law. No. 975,877; Nov. 15; Sp. p. 3961; Gaz. vol. 160; p. 668.
Clock, Alarm-. J. Kruse. No. 952,677; Mar. 22; Sp. p. 4523; Gaz. vol. 152; p. 822.
Clock, Alarm-. W. E. Porter. No. 956,824; May 3; Sp. p. 710; Gaz. vol. 154; p. 112.
Clock, Alarm-. G. Kern. No. 958,930; May 24; Sp. p. 5488; Gaz. vol. 154; p. 921.
Clock, Alarm-. A. Kaiserman. No. 964,271; July 12; Sp. p. 2700; Gaz. vol. 156; p. 446.
Clock, Alarm-. A. Y. Jansen. No. 964,426; July 12; Sp. p. 3006; Gaz. vol. 156; p. 496.
Clock, Alarm-. W. J. Larkin. No. 977,199; Nov. 29; Sp. p. 6910; Gaz. vol. 160; p. 1173.
Clock and watch. R. B. Hansell. No. 961,957; June 21; Sp. p. 3577; Gaz. vol. 155; p. 630.
Clock, Automatically-plumbed. J. Ogawa. No. 945,581; Jan. 4; Sp. p. 1238; Gaz. vol. 150; p. 192.
Clock-dial. C. L. Newland. No. 968,255; Aug. 23; Sp. p. 5165; Gaz. vol. 157; p. 890.
Clock, Electric. R. Jaegermann. No. 959,864; May 31; Sp. p. 7433; Gaz. vol. 154; p. 1257.
Clock, Electric. F. I. Getty. No. 961,952; June 21; Sp. p. 3567; Gaz. vol. 155; p. 629.
Clock, Electric alarm-. H. C. Wilcox. No. 957,397; May 10; Sp. p. 1942; Gaz. vol. 154; p. 336.
Clock, Electric call-. O. P. Ragan. No. 951,148; Mar. 8; Sp. p. 1389; Gaz. vol. 152; p. 252.
Clock, Electric watchman's. G. B. Fessenden. No. 974,561; Nov. 1; Sp. p. 1126; Gaz. vol. 160; p. 169.
Clock, Electrically-operated. T. Mungall. No. 960,186; May 31; Sp. p. 8134; Gaz. vol. 154; p. 1368.
Clock, Intermittent-alarm. W. E. Porter. No. 952,212; Mar. 15; Sp. p. 3525; Gaz. vol. 152; p. 634.
Clock, Keyless. W. E. Porter. No. 979,797; Dec. 27; Sp. p. 5166; Gaz. vol. 161; p. 895.
Clock, Master-. M. W. Obermiller. No. 955,538; Apr. 19; Sp. p. 3964; Gaz. vol. 153; p. 696.
Clock, Master-. F. I. Getty. No. 961,950; June 21; Sp. p. 3558; Gaz. vol. 155; p. 628.
Clock-movements and the like, Motor for. S. W. Bramley. No. 951,903; Mar. 15; Sp. p. 2945; Gaz. vol. 152; p. 533.
Clock-pendulums, Electrical means for operating. J. F. Holmes. No. 961,776; June 21; Sp. p. 3175; Gaz. vol. 155; p. 570.
Clock-ratchets, Forming. F. R. Alford. No. 945,668; Jan. 4; Sp. p. 1414; Gaz. vol. 150; p. 221.
Clock-regulator. W. E. Porter. No. 975,793; Nov. 15; Sp. p. 3796; Gaz. vol. 160; p. 640.
Clock, Secondary. M. W. Obermiller. No. 967,959; Aug. 23; Sp. p. 4488; Gaz. vol. 157; p. 789.
Clock, Secondary electric. T. Mungall. No. 946,148; Jan. 11; Sp. p. 2496; Gaz. vol. 150; p. 417.
Clock-setting device. F. Livingston. No. 979,402; Dec. 20; Sp. p. 4279; Gaz. vol. 161; p. 736.
Clock signal attachment. O. P. Ragan. No. 976,214; Nov. 22; Sp. p. 4680; Gaz. vol. 160; p. 806.
Clock-synchronizing apparatus, Electric-. E. A. Hummel. No. 949,122; Feb. 15; Sp. p. 2832; Gaz. vol. 151; p. 501.
Clock-synchronizing attachment. P. E. Burns. No. 954,714; Apr. 12; Sp. p. 2192; Gaz. vol. 153; p. 382.
Clock-synchronizing attachment. B. F. Merritt. No. 958,148; May 17; Sp. p. 3705; Gaz. vol. 154; p. 626.
Clock-synchronizing system. H. C. Korfhage. No. 970,241; Sept. 13; Sp. p. 2358; Gaz. vol. 158; p. 398.
Clock, Watchman's. R. C. Rose. No. 971,309; Sept. 27; Sp. p. 4599; Gaz. vol. 158; p. 805.
Clock, Watchman's. R. C. Rose. No. 971,310; Sept. 27; Sp. p. 4602; Gaz. vol. 158; p. 805.
Clocks, Motor device for electric. J. Granz. No. 945,716; Jan. 4; Sp. p. 1516; Gaz. vol. 150; p. 237.
Clocks, Pouch for portable watchmen's. P. Moosmann. No. 963,461; July 5; Sp. p. 1000; Gaz. vol. 156; p. 150.
Clockwork-globe. E. de Gounevitch and A. Couaillet. No. 970,040; Sept. 13; Sp. p. 1941; Gaz. vol. 158; p. 329.
Clod-crusher. J. S. Donnelly. No. 966,890; Aug. 9; Sp. p. 2295; Gaz. vol. 157; p. 376.
Clod-crushers, Detachable runner for. J. E. Horstmyer. No. 956,352; Apr. 26; Sp. p. 5778; Gaz. vol. 153; p. 1005.
Closet: *See* Antifreezing closet; China-closet; Dry closet; Siphon-closet; Water-closet.
Closet. A. D. Fuller. No. 951,604; Mar. 8; Sp. p. 2307; Gaz. vol. 152; p. 401.
Closet attachment, Dry and water. W. B. Webb. No. 968,009; Aug. 23; Sp. p. 4614; Gaz. vol. 157; p. 806.
Closet bend or fitting. W. E. Young. No. 954,604; Apr. 12; Sp. p. 1942; Gaz. vol. 153; p. 344.
Closet connection. F. W. Carlson. No. 962,621; June 28; Sp. p. 5043; Gaz. vol. 155; p. 882.
Closet extension, Warming-. K. Watanabe. No. 969,580; Sept. 6; Sp. p. 918; Gaz. vol. 158; p. 146.
Closet-fitting. W. M. Weatherly. No. 947,207; Jan. 18; Sp. p. 4848; Gaz. vol. 150; p. 799.
Closet-joint. J. S. Candee. No. 952,602; Mar. 22; Sp. p. 4358; Gaz. vol. 152; p. 796.
Closet-rinsing apparatus. R. Stickdorn. No. 954,899; Apr. 12; Sp. p. 2649; Gaz. vol. 153; p. 449.
Closet-seat. T. G. Philpot. No. 956,410; Apr. 26; Sp. p. 5899; Gaz. vol. 153; p. 1026.
Closet-seat attachment. R. D. McDonald. No. 964,533; July 19; Sp. p. 3267; Gaz. vol. 156; p. 563.
Closet-seat buffer attachment. J. C. Cleis. No. 972,820; Oct. 18; Sp. p. 2844; Gaz. vol. 159; p. 507.
Closet ventilating and flushing apparatus. E. E. Lauphear. No. 955,518; Apr. 19; Sp. p. 3930; Gaz. vol. 153; p. 689.

Closing-disk. W. L. Wright. No. 959,095; May 24; Sp. p. 5823; Gaz. vol. 154; p. 976.
Closure. H. Deitz. No. 950,372; Feb. 22; Sp. p. 5476; Gaz. vol. 151; p. 960.
Closure. C. D. Love. No. 958,513; May 17; Sp. p. 4591; Gaz. vol. 154; p. 753.
Closure and locking means, Combined. W. H. Klemm. No. 969,881; Sept. 13; Sp. p. 1598; Gaz. vol. 158; p. 275.
Closure, Detachable. W. W. Anderson. No. 947,144; Jan. 18; Sp. p. 4707; Gaz. vol. 150; p. 778.
Closure for containing vessels. E. D. Chellis. No. 978,432; Dec. 13; Sp. p. 2191; Gaz. vol. 161; p. 380.
Closure-locking means. C. J. Ljunggren. No. 974,897; Nov. 8; Sp. p. 1849; Gaz. vol. 160; p. 307.
Closure-remover. F. Martin, Sr. No. 952,827; Mar. 22; Sp. p. 4852; Gaz. vol. 152; p. 873.
Cloth-cutter. M. Langman. No. 957,070; May 3; Sp. p. 1227; Gaz. vol. 154; p. 195.
Cloth cutting and measuring machine. J. A. Kellian and G. M. Kennedy. No. 979,963; Dec. 27; Sp. p. 5497; Gaz. vol. 161; p. 950.
Cloth-cutting machine. J. A Firsching. No. 954,025; Apr. 5; Sp. p. 685; Gaz. vol. 153; p. 120.
Cloth-cutting machine. J. R. Warren and T. Barnard. No. 967,472; Aug. 16; Sp. p. 3500; Gaz. vol. 157; p. 602.
Cloth dampening and shrinking machine. R. M. Dalgleish. No. 966,659; Aug. 9; Sp. p. 1761; Gaz. vol. 157; p. 300.
Cloth doubling and folding machine attachment. A. J. Bohnengel. No. 962,193; June 21; Sp. p. 4106; Gaz. vol. 155; p. 712.
Cloth-drying machine. M. A. Gordon. No. 947,696; Jan. 25; Sp. p. 5972; Gaz. vol. 150; p. 994.
Cloth-finishing machine. R. T. Todd and R. B. Batty. No. 971,575; Oct. 4; Sp. p. 138; Gaz. vol. 159; p. 26.
Cloth-folding machine. J. W. Gaunt. No. 950,153; Feb. 22; Sp. p. 5033; Gaz. vol. 151; p. 885.
Cloth-holder. B. A. Spinney. No. 955,219; Apr. 19; Sp. p. 3289; Gaz. vol. 153; p. 588.
Cloth in the desired lengths, Device for piling. S. Sampson. No. 976,604; Nov. 22; Sp. p. 5573; Gaz. vol. 160; p. 942.
Cloth-notching machine. J. B. Gury. No. 952,446; Mar. 22; Sp. p. 3999; Gaz. vol. 152; p. 741.
Cloth-piling apparatus. S. Sampson. No. 968,808; Aug. 30; Sp. p. 6350; Gaz. vol. 157; p. 1107.
Cloth-piling machine. H. A. Shields. No. 945,249; Jan. 4; Sp. p. 507; Gaz. vol. 150; p. 83.
Cloth-piling machine. H. A. Shields. No. 952,845; Mar. 22; Sp. p. 4889; Gaz. vol. 152; p. 880.
Cloth-piling machine. C. Weiss. No. 957,525; May 10; Sp. p. 2200; Gaz. vol. 154; p. 380.
Cloth-piling machine. C. Weiss. No. 957,526; May 10; Sp. p. 2201; Gaz. vol. 154; p. 380.
Cloth-piling machine. C. Weiss. No. 957,588; May 10; Sp. p. 2309; Gaz. vol. 154; p. 401.
Cloth-piling machine. W. M. Swerdlove. No. 973,891; Oct. 25; Sp. p. 5200; Gaz. vol. 159; p. 903.
Cloth sponging and refinishing machine. G. Hatt. No. 969,864; Sept. 13; Sp. p. 1561; Gaz. vol. 158; p. 269.
Cloth-stretching machine. G. Durrant. No. 971,123; Sept. 27; Sp. p. 4216; Gaz. vol. 158; p. 745.
Cloth-tentering machines, Selvage-feed for. J. C. Whittles. No. 970,697; Sept. 20; Sp. p. 3337; Gaz. vol. 158; p. 573.
Cloth, Treating. D. Gessner. No. 946,915; Jan. 18; Sp. p. 4294; Gaz. vol. 150; p. 705.
Cloth-treating apparatus. D. Gessner. No. 946,916; Jan. 18; Sp. p. 4299; Gaz. vol. 150; p. 706.
Cloth-treating apparatus. D. Gessner. No. 975,349; Nov. 8; Sp. p. 2854; Gaz. vol. 160; p. 461.
Clothes-boiler. V. A. Smith. No. 971,086; Sept. 27; Sp. p. 4155; Gaz. vol. 158; p. 733.
Clothes-clamp. R. W. Glass. No. 945,451; Jan. 4; Sp. p. 951; Gaz. vol. 150; p. 150.
Clothes-cleanser. R. W. Scott. No. 955,106; Apr. 12; Sp. p. 3034; Gaz. vol. 153; p. 515.
Clothes-drainer. W. McDonald. No. 978,184; Dec. 13; Sp. p. 1670; Gaz. vol. 161; p. 293.
Clothes-drier. W. L. Gustafson. No. 945,231; Jan. 4; Sp. p. 467; Gaz. vol. 150; p. 77.
Clothes-drier. H. W. Monk. No. 945,793; Jan. 11; Sp. p. 1744; Gaz. vol. 150; p. 293.
Clothes-drier. F. T. Johnson. No. 950,923; Mar. 1; Sp. p. 961; Gaz. vol. 152; p. 154.
Clothes-drier. F. T. Johnson. No. 950,924; Mar. 1; Sp. p. 963; Gaz. vol. 152; p. 154.
Clothes-drier. F. E. Bird. No. 955,576; Apr. 19; Sp. p. 4035; Gaz. vol. 153; p. 708.
Clothes-drier. G. Schneider. No. 959,888; May 31; Sp. p. 7489; Gaz. vol. 154; p. 1265.
Clothes-drier. J. P. Hill. No. 962,147; June 21; Sp. p. 4012; Gaz. vol. 155; p. 696.
Clothes-drier. R. R. Pease. No. 964,543; July 19; Sp. p. 3301; Gaz. vol. 156; p. 566.
Clothes-drier. O. R. Gale. No. 968,240; Aug. 23; Sp. p. 5134; Gaz. vol. 157; p. 884.
Clothes-drier. T. J. Yates and P. R. Peterson. No. 972,590; Oct. 11; Sp. p. 2367; Gaz. vol. 159; p. 404.
Clothes-drier. G. Scroggie. No. 975,575; Nov. 15; Sp. p. 3344; Gaz. vol. 160; p. 567.
Clothes-drier, Centrifugal. F. A. Dinsmore. No. 945,921; Jan. 11; Sp. p. 2042; Gaz. vol. 150; p. 340.
Clothes-drier, Centrifugal. F. A. Dinsmore. No. 970,022; Sept. 13; Sp. p. 1906; Gaz. vol. 158; p. 324.
Clothes-drier, Suspension. G. N. Galloway. No. 947,591; Jan. 25; Sp. p. 5773; Gaz. vol. 150; p. 959.
Clothes-drying frame. E. R. Greiner. No. 974,052; Oct. 25; Sp. p. 5526; Gaz. vol. 159; p. 958.
Clothes-drying rack. J. R. Russell. No. 948,653; Feb. 8; Sp. p. 1849; Gaz. vol. 151; p. 319.
Clothes-hanger. S. Greenberg. No. 947,102; Jan. 18; Sp. p. 4643; Gaz. vol. 150; p. 766.
Clothes-hanger. P. Ashton. No. 976,772; Nov. 22; Sp. p. 5920; Gaz. vol. 160; p. 999.
Clothes-holder. L. L. Fonda. No. 950,320; Feb. 22; Sp. p. 5385; Gaz. vol. 151; p. 945.
Clothes-holder. J. Danziger. No. 953,410; Mar. 29; Sp. p. 6101; Gaz. vol. 152; p. 1096.
Clothes-horse. N. P. Shankwiler. No. 968,992; Aug. 30; Sp. p. 6711; Gaz. vol. 157; p. 1169.
Clothes-line. A. Goff. No. 951,185; Mar. 8; Sp. p. 1459; Gaz. vol. 152; p. 264.
Clothes-line. W. J. Walsh. No. 975,811; Nov. 15; Sp. p. 3833; Gaz. vol. 160; p. 646.
Clothes-line. W. O. Walston. No. 976,412; Nov. 22; Sp. p. 5164; Gaz. vol. 160; p. 877.
Clothes-line attachment for windows. J. Kehoe. No. 949,770; Feb. 22; Sp. p. 4159; Gaz. vol. 151; p. 752.
Clothes-line clip. W. M. Fridell. No. 955,257; Apr. 19; Sp. p. 3376; Gaz. vol. 153; p. 601.
Clothes-line-extension device. H. F. Maynes. No. 945,337; Jan. 4; Sp. p. 728; Gaz. vol. 150; p. 112.
Clothes-line hanger, Safety. E. J. Eckhardt. No. 949,700; Feb. 15; Sp. p. 3992; Gaz. vol. 151; p. 694.
Clothes-line holder. F. O. Nitch. No. 945,579; Jan. 4; Sp. p. 1236; Gaz. vol. 150; p. 192.
Clothes-line holder. A. Heinzinger. No. 958,493; May 17; Sp. p. 4551; Gaz. vol. 154; p. 746.
Clothes-line holder. E. Jonas. No. 974,388; Nov. 1; Sp. p. 694; Gaz. vol. 160; p. 105.
Clothes-line prop. C. M. Rew. No. 967,834; Aug. 16; Sp. p. 4237; Gaz. vol. 157; p. 724.
Clothes-line prop. C. L. Jones. No. 973,666; Oct. 25; Sp. p. 4746; Gaz. vol. 159; p. 824.
Clothes-line raising and lowering device. J. W. Fields. No. 960,870; June 7; Sp. p. 1267; Gaz. vol. 155; p. 212.
Clothes-line reel. H. H. and I. Reinhart and E. G. Lesher. No. 962,099; June 21; Sp. p. 3882; Gaz. vol. 155; p. 679.
Clothes-line reel. A. Mader. No. 964,993; July 19; Sp. p. 4333; Gaz. vol. 156; p. 723.
Clothes-line reel. T. M. Bovard. No. 967,601; Aug. 16; Sp. p. 3764; Gaz. vol. 157; p. 647.
Clothes-line reel. G. W. Buttles. No. 969,598; Sept. 6; Sp. p. 964; Gaz. vol. 158; p. 153.
Clothes-line reel. J. C. Poorman. No. 972,238; Oct. 11; Sp. p. 1594; Gaz. vol. 159; p. 280.
Clothes-line reel. F. Eiche. No. 973,266; Oct. 18; Sp. p. 3877; Gaz. vol. 159; p. 663.
Clothes-line reel. L. T. Obele. No. 976,826; Nov. 22; Sp. p. 6021; Gaz. vol. 160; p. 1017.
Clothes line reel and pin box. E. T. Enerson. No. 948,625; Feb. 8; Sp. p. 1797; Gaz. vol. 151; p. 308.
Clothes-line support. H. Herstein. No. 950,133; Feb. 22; Sp. p. 4996; Gaz. vol. 151; p. 879.
Clothes-line support. C. M. Follett. No. 950,384; Feb. 22; Sp. p. 5501; Gaz. vol. 151; p. 963.
Clothes-line support. J. C. Michaud. No. 950,859; Mar. 1; Sp. p. 844; Gaz. vol. 152; p. 135.
Clothes-line support. J. Grimm. No. 956,079; Apr. 26; Sp. p. 5181; Gaz. vol. 153; p. 913.
Clothes-line support. W. L. Anderson. No. 959,419; May 24; Sp. p. 6459; Gaz. vol. 154; p. 1081.
Clothes-line support. H. O. Knickerbocker and C. G. Watson. No. 961,240; June 14; Sp. p. 2029; Gaz. vol. 155; p. 366.
Clothes-line support. E. E. Short. No. 980,017; Dec. 27; Sp. p. 5604; Gaz. vol. 161; p. 969.
Clothes-line-supporting device. V. A. Rouilliard. No. 980,128; Dec. 27; Sp. p. 5888; Gaz. vol. 161; p. 1006.
Clothes-moistening device. T. Hase. No. 951,991; Mar. 15; Sp. p. 3114; Gaz. vol. 152; p. 562.
Clothes-pin. L. L. Goheen. No. 945,033; Jan. 4; Sp. p. 53; Gaz. vol. 150; p. 10.
Clothes-pin. R. E. McCreary. No. 946,255; Jan. 11; Sp. p. 2740; Gaz. vol. 150; p. 456.
Clothes-pin. W. C. Kitts. No. 951,133; Mar. 8; Sp. p. 1363; Gaz. vol. 152; p. 247.
Clothes-pin. G. S. Pollock. No. 958,532; May 17; Sp. p. 4626; Gaz. vol. 154; p. 759.
Clothes-pin. G. E. Devore. No. 960,847; June 7; Sp. p. 1227; Gaz. vol. 155; p. 205.
Clothes-pin. A. H. Wiley and J. E. A. Banger. No. 970,867; Sept. 20; Sp. p. 3708; Gaz. vol. 158; p. 633.
Clothes-pounder. M. J. Baker and V. M. Pierce. No. 957,298; May 10; Sp. p. 1740; Gaz. vol. 154; p. 304.
Clothes-pounder. J. S. Turner and J. L. Campbell. No. 957,919; May 17; Sp. p. 3031; Gaz. vol. 154; p. 544.
Clothes-rack. R B Meek. No. 948,593; Feb 8; Sp. p. 1722; Gaz. vol. 151; p. 298.
Clothes-rack. P. L. Fowler. No. 949,066; Feb. 15; Sp. p. 2712; Gaz. vol. 151; p. 482.

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Clothes-rack. M. Redlinger. No. 955,434; Apr. 19; Sp. p. 3752; Gaz. vol. 153; p. 659.
Clothes-rack, Folding. O. Felts. No. 950,443; Feb. 22; Sp. p. 5610; Gaz. vol. 151; p. 983.
Clothes-tree, Collapsible. W. J. Hegarty. No. 963,893; July 12; Sp. p. 1935; Gaz. vol. 156; p. 318.
Clothes-washer. W. B. MacLean. No. 963,786; July 12; Sp. p. 1685; Gaz. vol. 156; p. 282.
Clothes-washer. J. W. Whitely. No. 971,232; Sept. 27; Sp. p. 4465; Gaz. vol. 158; p. 781.
Clothes-wringer. E. Firth. No. 970,317; Sept. 13; Sp. p. 2510; Gaz. vol. 158; p. 423.
Clothes-wringer. R. B. Spencer. No. 970,566; Sept. 20; Sp. p. 3036; Gaz. vol. 158; p. 528.
Clothes-wringer. A. N. Keil. No. 975,624; Nov. 15; Sp. p. 3440; Gaz. vol. 160; p. 584.
Clothing-bag. A. F. Bornot. No. 952,181; Mar. 15; Sp. p. 3464; Gaz. vol. 152; p. 623.
Clothing-support, Extensible. C. T. Wilt. No. 963,346; July 5; Sp. p. 767; Gaz. vol. 156; p. 112.
Clover-huller. J. W. Clutter. No. 956,886; May 3; Sp. p. 844; Gaz. vol. 154; p. 134.
Cluster-setting for jewelry. J. A. Doran. No. 964,625; July 19; Sp. p. 3483; Gaz. vol. 156; p. 595.
Cluster-settings, Making. J. A. Doran. No. 964,624; July 19; Sp. p. 3481; Gaz. vol. 156; p. 595.
Cluster-socket. J. C. Tournier. No. 953,362; Mar. 29; Sp. p. 6000; Gaz. vol. 152; p. 1079.
Cluster-socket. D. Holden. No. 973,199; Oct. 18; Sp. p. 3751; Gaz vol. 159; p. 640.
Clutch. H. M. Barber. No. 945,363; Jan. 4; Sp. p. 782; Gaz. vol. 150; p. 120.
Clutch. W. E. Knoell. No. 945,551; Jan. 4; Sp. p. 1184; Gaz. vol. 150; p. 182.
Clutch. H. E. Marshall. No. 945,565; Jan. 4; Sp. p. 1204; Gaz. vol. 150; p. 186.
Clutch. E. C. Smith. (Reissue.) No. 13,072; Jan. 4; Sp. p. 1602; Gaz. vol. 150; p. 248.
Clutch. R. W. Butler. No. 947,962; Feb. 1; Sp. p. 390; Gaz. vol. 151; p. 62.
Clutch. J. S. Coates. No. 950,164; Feb. 22; Sp. p. 5069; Gaz. vol. 151; p. 890.
Clutch. T. O. Johnson. No. 951,992; Mar. 15; Sp. p. 3114; Gaz. vol. 152; p. 562.
Clutch. W. H. Boutell. No. 953,118; Mar. 29; Sp. p. 5468; Gaz. vol. 152; p. 998.
Clutch. L. Wirtz. No. 957,401; May 10; Sp. p. 1951; Gaz. vol. 154; p. 338.
Clutch. J. A. Dickey. No. 960,515; June 7; Sp. p. 556; Gaz. vol. 155; p. 92.
Clutch. H. A. Hancock. No. 962,567; June 28; Sp. p. 4937; Gaz. vol. 155; p. 865.
Clutch. H. C. Marden. No. 964,874; July 19; Sp. p. 4094; Gaz. vol. 156; p. 682.
Clutch. W. W. Prather. No. 965,325; July 26; Sp. p. 5021; Gaz. vol. 156; p. 864.
Clutch. H. Tscherning. No. 965,610; July 26; Sp. p. 5665; Gaz. vol. 156; p. 963.
Clutch. M. L. Poulter. No. 970,548; Sept. 20; Sp. p. 3000; Gaz. vol. 158; p. 522.
Clutch. P. English. No. 973,767; Oct. 25; Sp. p. 4939; Gaz. vol. 159; p. 859.
Clutch. H. W. Lloyd. No. 974,086; Oct. 25; Sp. p. 5592; Gaz. vol. 159; p. 969.
Clutch. R. Symmonds, Jr. No. 975,583; Nov. 15; Sp. p. 3356; Gaz. vol. 160; p. 570.
Clutch. O. D. Morgan. No. 978,776; Dec. 13; Sp. p. 2934; Gaz. vol. 161; p. 496.
Clutch. S. E. Ross. No. 979,703; Dec. 27; Sp. p. 4925; Gaz. vol. 161; p. 863.
Clutch and brake, Combined. D. Miolans. No. 975,629; Nov. 15; Sp. p. 3448; Gaz. vol. 160; p. 585.
Clutch and brake operating mechanism, Interconnected. S. B. Fishburne and I. H. Bond. No. 974,649; Nov. 1; Sp. p. 1304; Gaz. vol. 160; p. 201.
Clutch and multiple transmission, Combined. A. F. Feller. No. 979,272; Dec. 20; Sp. p. 4040; Gaz. vol. 161; p. 695.
Clutch and power-transmitting device. F. M. Prather. No. 966,858; Aug. 9; Sp. p. 2224; Gaz. vol. 157; p. 366.
Clutch and transmission mechanism. J. C. Carpenter. No. 947,295; Jan. 25; Sp. p. 5075; Gaz. vol. 150; p. 858.
Clutch and transmission mechanism. J. C. Carpenter. No. 947,406; Jan. 25; Sp. p. 5353; Gaz. vol. 150; p. 897.
Clutch, Automatic. O. C. Talbot. No. 965,606; July 26; Sp. p. 5652; Gaz. vol. 156; p. 961.
Clutch, Automatic safety-stop. C. F. Heinss. No. 953,693; Apr. 5; Sp. p. 27; Gaz. vol. 153; p. 8.
Clutch, Automatic speed-controlling. H. Bolinski and M. Schmidt. No. 965,068; July 19; Sp. p. 4487; Gaz. vol. 156; p. 747.
Clutch, Axle-. R. C. Feile. No. 967,006; Aug. 9; Sp. p. 2526; Gaz. vol. 157; p. 416.
Clutch-bolt. L. F. Schmidt. No. 953,298; Mar. 29; Sp. p. 5849; Gaz. vol. 152; p. 1057.
Clutch-brake. C. M. Foss. No. 973,187; Oct. 18; Sp. p. 3730; Gaz. vol. 159; p. 637.
Clutch, Combined friction and positive. A. Loomis. No. 952,535; Mar. 22; Sp. p. 4207; Gaz. vol. 152; p. 772.
Clutch, Combined frictional and positively locking. A. Latham. No. 957,851; May 10; Sp. p. 2857; Gaz. vol. 154; p. 489.
Clutch device. W. Goldberg. No. 951,882; Mar. 15; Sp. p. 2901; Gaz. vol. 152; p. 525.
Clutch device, Overload. O. A. Smith. No. 979,104; Dec. 20; Sp. p. 3662; Gaz. vol. 161; p. 636.
Clutch, Driving-. D. S. Beard. No. 954,774; Apr. 12; Sp. p. 2343; Gaz. vol. 153; p. 404.
Clutch, Electric friction-. L. H. Dyer. No. 965,166; July 26; Sp. p. 4677; Gaz. vol. 156; p. 810.
Clutch for drill-feeds, Safety-. R. Milne. No. 945,571; Jan. 4; Sp. p. 1220; Gaz. vol. 150; p. 188.
Clutch for hoists, Back-motion. H. W. Israel. No. 972,451; Oct. 11; Sp. p. 2019; Gaz. vol. 159; p. 354.
Clutch, Friction-. A. Soderling. No. 945,250; Jan. 4; Sp. p. 512; Gaz. vol. 150; p. 83.
Clutch, Friction-. H. Geisenhöner. No. 946,123; Jan. 11; Sp. p. 2447; Gaz. vol. 150; p. 407.
Clutch, Friction-. W. Runge. No. 946,155; Jan. 11; Sp. p. 2515; Gaz. vol. 150; p. 419.
Clutch, Friction-. C. A. A. Rand. No. 947,351; Jan. 25; Sp. p. 5225; Gaz. vol. 150; p. 880.
Clutch, Friction-. D. Noble. No. 950,053; Feb. 22; Sp. p. 4846; Gaz. vol. 151; p. 853.
Clutch, Friction-. C. M. L. Moseson. No. 951,485; Mar. 8; Sp. p. 2091; Gaz. vol. 152; p. 362.
Clutch, Friction-. V. M. Moore. No. 951,651; Mar. 8; Sp. p. 2409; Gaz. vol. 152; p. 418.
Clutch, Friction-. T. A. Weston. No. 953,652; Mar. 29; Sp. p. 6611; Gaz. vol. 152; p. 1180.
Clutch, Friction-. J. E. Werner. No. 953,727; Apr. 5; Sp. p. 89; Gaz. vol. 153; p. 18.
Clutch, Friction-. K. Matthias. No. 958,147; May 17; Sp. p. 3704; Gaz. vol. 154; p. 626.
Clutch, Friction-. R. Huff. No. 963,044; July 5; Sp. p. 31; Gaz. vol. 156; p. 7.
Clutch, Friction-. J. C. Garrett. No. 964,639; July 19; Sp. p. 3509; Gaz. vol. 156; p. 600.
Clutch, Friction-. H. H. Benn. No. 966,299; Aug. 2; Sp. p. 958; Gaz. vol. 157; p. 153.
Clutch, Friction-. H. J. Wells. No. 967,094; Aug. 9; Sp. p. 2711; Gaz. vol. 157; p. 446.
Clutch, Friction-. G. Franc. No. 967,150; Aug. 9; Sp. p. 2840; Gaz. vol. 157; p. 466.
Clutch, Friction-. J. Yocom. No. 968,308; Aug. 23; Sp. p. 5273; Gaz. vol. 157; p. 909.
Clutch, Friction-. A. L. Messier. No. 968,676; Aug. 30; Sp. p. 6073; Gaz. vol. 157; p. 1064.
Clutch, Friction-. C. F. Bledsoe. No. 970,459; Sept. 20; Sp. p. 2791; Gaz. vol. 158; p. 490.
Clutch, Friction-. J. A. Fridgen. No. 975,226; Nov. 8; Sp. p. 2604; Gaz. vol. 160; p. 420.
Clutch, Friction-. H. J. Smith. No. 975,578; Nov. 15; Sp. p. 3348; Gaz. vol. 160; p. 568.
Clutch, Friction-. H. W. Jacobs and H. H. Lanning. No. 975,621; Nov. 15; Sp. p. 3428; Gaz. vol. 160; p. 582.
Clutch, Friction-. C. J. Fensom. No. 975,846; Nov. 15; Sp. p. 3895; Gaz. vol. 160; p. 658.
Clutch, Friction-. B. D. Northrup. No. 975,987; Nov. 15; Sp. p. 4171; Gaz. vol. 160; p. 706.
Clutch, Friction-. W. A. Wilkinson and A. H. Irving. No. 978,253; Dec. 13; Sp. p. 1815; Gaz. vol. 161; p. 317.
Clutch, Friction-. F. F. Hoehne. No. 979,952; Dec. 27; Sp. p. 5478; Gaz. vol. 161; p. 947.
Clutch, Friction disk. G. F. Bowdle. No. 971,168; Sept. 27; Sp. p. 4326; Gaz. vol. 158; p. 759.
Clutch, Friction driving-. A. R. Le Moon. (Reissue.) No. 13,161; Oct. 25; Sp. p. 5634; Gaz. vol. 159; p. 977.
Clutch, Hydraulic. C. A. Schlachter. No. 952,217; Mar. 15; Sp. p. 3536; Gaz. vol. 152; p. 636.
Clutch, Magnetic. H. W. Ravenshaw. No. 947,687; Jan. 25; Sp. p. 5959; Gaz. vol. 150; p. 991.
Clutch, Magnetic. A. Pick. No. 956,164; Apr. 26; Sp. p. 5365; Gaz. vol. 153; p. 942.
Clutch, Magnetic. F. R. Martin and O. M. Shepherd. No. 959,569; May 31; Sp. p. 6811; Gaz. vol. 154; p. 1159.
Clutch mechanism. F. P. Murphey. No. 946,702; Jan. 18; Sp. p. 3769; Gaz. vol. 150; p. 631.
Clutch mechanism. C. L. Grohmann. No. 948,695; Feb. 8; Sp. p. 1938; Gaz. vol. 151; p. 333.
Clutch mechanism. E. J. Wilson. No. 949,559; Feb. 15; Sp. p. 3726; Gaz. vol. 151; p. 648.
Clutch mechanism. J. A. Talbot and H. E. Brett. No. 951,084; Mar. 1; Sp. p. 1254; Gaz. vol. 152; p. 206.
Clutch mechanism. F. P. Murphey. No. 954,123; Apr. 5; Sp. p. 883; Gaz. vol. 153; p. 153.
Clutch mechanism. J. F. Duryea and W. M. Remington. No. 957,602; May 10; Sp. p. 2337; Gaz. vol. 154; p. 406.
Clutch mechanism. F. C. Biggert, Jr. No. 958,710; May 17; Sp. p. 4963; Gaz. vol. 154; p. 816.
Clutch mechanism. F. E. Suddoth and W. T. S. Weaver. No. 961,043; June 7; Sp. p. 1617; Gaz. vol. 155; p. 270.
Clutch mechanism. W. C. Zelle. No. 965,270; July 26; Sp. p. 4889; Gaz. vol. 156; p. 844.
Clutch mechanism. J. Harding, Jr. No. 972,693; Oct. 11; Sp. p. 2571; Gaz. vol. 159; p. 437.
Clutch mechanism. W. W. Dryden. No. 974,248; Nov. 1; Sp. p. 373; Gaz. vol. 160; p. 54.
Clutch mechanism. L. H. Hall. No. 977,864; Dec. 6; Sp. p. 965; Gaz. vol. 161; p. 152.
Clutch mechanisms, Latch-controlling device for. C. O. Bergman. No. 978,351; Dec. 13; Sp. p. 2021; Gaz. vol. 161; p. 352.

Clutch, Motor-cycle friction-. J. R. Spangler. No. 974,839; Nov. 8; Sp. p. 1712; Gaz. vol. 160; p. 287.
Clutch, Multiple-disk friction-. J. A. McGee. No. 974,101; Oct. 25; Sp. p. 5621; Gaz. vol. 159; p. 974.
Clutch-operating mechanism for cranes. F. A. Rundle and A. H. McDougall. No. 951,845; Mar. 15; Sp. p. 2817; Gaz. vol. 152; p. 514.
Clutch or coupling, Frictional. J. Vollmer. No. 969,577; Sept. 6; Sp. p. 911; Gaz. vol. 158; p. 145.
Clutch, Reversible. S. Otis. No. 946,262; Jan. 11; Sp. p. 2758; Gaz. vol. 150; p. 459.
Clutch, Safety-. T. Hagman. No. 964,774; July 19; Sp. p. 3898; Gaz. vol. 156; p. 648.
Clutch, Safety friction-. J. D. Williamson, Jr. No. 971,335; Sept. 27; Sp. p. 4652; Gaz. vol. 158; p. 814.
Clutch-shifting mechanism. F. B. Allen. No. 952,664; Mar. 22; Sp. p. 4495; Gaz. vol. 152; p. 818.
Coal and ore crusher. J. F. Sauerman. No. 955,555; Apr. 19; Sp. p. 4003; Gaz. vol. 153; p. 701.
Coal and rock drilling machine. C. Seals. No. 959,079; May 24; Sp. p. 5790; Gaz. vol. 154; p. 970.
Coal and similar substances, Apparatus for use in loading. E. G. C. L. Meyer and H. F. J. Holst. No. 946,248; Jan. 11; Sp. p. 2725; Gaz. vol. 150; p. 453.
Coal and the like, Means for piling. W. H. Yost. No. 953,888; Apr. 5; Sp. p. 403; Gaz. vol. 153; p. 74.
Coal and wood box. W. B. Quick. No. 950,027; Feb. 22; Sp. p. 4802; Gaz. vol. 151; p. 844.
Coal and wood box, Combined. W. B. Quick. No. 969,564; Sept. 6; Sp. p. 887; Gaz. vol. 158; p. 140.
Coal, &c., Apparatus for washing, grading, and classifying. F. D. Baker. No. 976,425; Nov. 22; Sp. p. 5188; Gaz. vol. 160; p. 881.
Coal, Burning powdered. L. S. Hughes. No. 945,846; Jan. 11; Sp. p. 1881; Gaz. vol. 150; p. 312.
Coal, Coking. S. B. Sheldon. No. 953,351; Mar. 29; Sp. p. 5964; Gaz. vol. 152; p. 1075.
Coal, Coking. S. B. Sheldon. No. 959,080; May 24; Sp. p. 5792; Gaz. vol. 154; p. 971.
Coal-distributing apparatus. A. Sommer. No. 952,020; Mar. 15; Sp. p. 3170; Gaz. vol. 152; p. 571.
Coal-drill support. R. Secrist. No. 965,024; July 19; Sp. p. 4385; Gaz. vol. 156; p. 732.
Coal-dust, coal-slack, and the like, Semicoking. C. W. Beehler. No. 955,310; Apr. 19; Sp. p. 3482; Gaz. vol. 153; p. 618.
Coal-dust from coal-breakers, Apparatus for exhausting. W. S. Carpenter. No. 945,375; Jan. 4; Sp. p. 804; Gaz. vol. 150; p. 124.
Coal-gas apparatus, Vertical-retort. J. H. Taussig. No. 969,996; Sept. 13; Sp. p. 1846; Gaz. vol. 158; p. 314.
Coal-handling device. S. B. Peck. No. 968,795; Aug. 30; Sp. p. 6328; Gaz. vol. 157; p. 1103.
Coal-hod. J. L. Hair. No. 970,218; Sept. 13; Sp. p. 2320; Gaz. vol. 158; p. 390.
Coal-loading device. R. M. Fox. No. 974,225; Nov. 8; Sp. p. 2602; Gaz. vol. 160; p. 420.
Coal, Mechanism for feeding pulverized. W. R. Dunn. No. 954,944; Apr. 12; Sp. p. 2734; Gaz. vol. 153; p. 463.
Coal or the like, Machine for leveling. F. Barnett and F. P. Bayles. No. 966,986; Aug. 9; Sp. p. 2486; Gaz. vol. 157; p. 409.
Coal preparatory to coking, Treating and handling. W. J. Patterson. No. 948,074; Feb. 1; Sp. p. 618; Gaz. vol. 151; p. 100.
Coal-screen. H. B. Sackett. No. 969,659; Sept. 6; Sp. p. 1080; Gaz. vol. 158; p. 173.
Coal-screening apparatus. A. W. Crawford. No. 954,935; Apr. 12; Sp. p. 2721; Gaz. vol. 153; p. 460.
Coal-separator, Centrifugal. N. Mowery. No. 964,444; July 12; Sp. p. 3034; Gaz. vol. 156; p. 501.
Coal-tar. Means for removing free carbon from. C. B. Lowry and R. Bernhard. No. 951,993; Mar. 15; Sp. p. 3116; Gaz. vol. 152; p. 562.
Coal unloading and distributing device. E. S. Hart. No. 946,219; Jan. 11; Sp. p. 2653; Gaz. vol. 150; p. 442.
Coal, Utilizing buried. A. G. Betts. No. 947,608; Jan. 25; Sp. p. 5810; Gaz. vol. 150; p. 965.
Coal-washer. N. A. Smith. No. 979,584; Dec. 27; Sp. p. 4686; Gaz. vol. 161; p. 822.
Coal, Washing. J. R. Campbell. No. 945,692; Jan. 4; Sp. p. 1460; Gaz. vol. 150; p. 228.
Coal-washing apparatus. E. P. Dandridge and J. B. Cessna. No. 959,473; May 31; Sp. p. 6598; Gaz. vol. 154; p. 1126.
Coal-washing apparatus. H. Cory. No. 963,519; July 5; Sp. p. 1119; Gaz. vol. 156; p. 170.
Coal-washing machine. J. A. Montgomery. No. 954,986; Apr. 12; Sp. p. 2818; Gaz. vol. 153; p. 478.
Coaling device. V. Anderson. No. 975,312; Nov. 8; Sp. p. 2786; Gaz. vol. 160; p. 450.
Coaster. P. H. Quackenbush. No. 964,809; July 19; Sp. p. 3965; Gaz. vol. 156; p. 659.
Coaster-brake. F. W. Fee. No. 951,880; Mar. 15; Sp. p. 2897; Gaz. vol. 152; p. 525.
Coaster-brake. W. R. MacGuyer. No. 952,622; Mar. 22; Sp. p. 4407; Gaz. vol. 152; p. 803.
Coaster-brake. T. Falkos. No. 958,796; May 24; Sp. p. 5183; Gaz. vol. 154; p. 873.
Coaster-brake. C. Glover. No. 959,509; May 31; Sp. p. 6689; Gaz. vol. 154; p. 1138.
Coaster-brake. P. W. Toohey. No. 960,736; June 7; Sp. p. 1006; Gaz. vol. 155; p. 169.
Coaster-brake. C. Glover. No. 961,225; June 14; Sp. p. 1998; Gaz. vol. 155; p. 361.
Coaster-brake. W. A. Bartels. No. 975,389; Nov. 15; Sp. p. 2954; Gaz. vol. 160; p. 501.
Coaster-brake, Back-pedaling. C. E. Forsyth and F. S. Ellett. No. 953,688; Apr. 5; Sp. p. 19; Gaz. vol. 153; p. 6.
Coaster-brake, Back-pedaling. R. D. Webster. No. 961,187; June 14; Sp. p. 1912; Gaz. vol. 155; p. 347.
Coaster, Wheeled. C. D. Orcutt. No. 967,422; Aug. 16; Sp. p. 3403; Gaz. vol. 157; p. 586.
Coat. D. Warren. No. 956,238; Apr. 26; Sp. p. 5547; Gaz. vol. 153; p. 967.
Coat. P. Shotland. No. 958,977; May 24; Sp. p. 5575; Gaz. vol. 154; p. 937.
Coat and hat hook, Wire. A. G. Brewer. No. 972,501; Oct. 11; Sp. p. 2133; Gaz. vol. 159; p. 371.
Coat and pants hanger. S. Oichman. No. 956,501; Apr. 26; Sp. p. 6108; Gaz. vol. 153; p. 1057.
Coat and trousers hanger, Combination. J. E. Carroll. No. 975,509; Nov. 15; Sp. p. 3194; Gaz. vol. 160; p. 544.
Coat-collar. N. Harris. No. 977,865; Dec. 6; Sp. p. 969; Gaz. vol. 161; p. 153.
Coat-collar. N. Harris. No. 977,866; Dec. 6; Sp. p. 971; Gaz. vol. 161; p. 153.
Coat-facing. E. Reisman. No. 955,690; Apr. 19; Sp. p. 4324; Gaz. vol. 153; p. 747.
Coat-front, Lady's canvas. S. Decker. No. 967,888; Aug. 23; Sp. p. 4336; Gaz. vol. 157; p. 765.
Coat-hanger. J. A. Albertoni. No. 961,572; June 14; Sp. p. 2757; Gaz. vol. 155; p. 478.
Coat-hanger. R. E. Macintosh. No. 962,513; June 28; Sp. p. 4798; Gaz. vol. 155; p. 845.
Coat-holder. A. C. Brovald. No. 953,254; Mar. 29; Sp. p. 5762; Gaz. vol. 152; p. 1043.
Coat, Hunting-. L. Sabine. No. 946,910; Jan. 18; Sp. p. 4281; Gaz. vol. 150; p. 704.
Coat-sleeve. J. Leiner. No. 954,311; Apr. 5; Sp. p. 1311; Gaz. vol. 153; p. 217.
Coats, Making. C. J. Larkin. No. 964,278; July 12; Sp. p. 2719; Gaz. vol. 156; p. 448.
Coats, Support for the fronts of. W. H. Garlock. No. 968,142; Aug. 23; Sp. p. 4904; Gaz. vol. 157; p. 851.
Coating, Anticorrosive. F. E. Dodge. No. 975,124; Nov. 8; Sp. p. 2374; Gaz. vol. 160; p. 386.
Coating apparatus. H. J. Potter. No. 972,239; Oct. 11; Sp. p. 1596; Gaz. vol. 159; p. 281.
Coating apparatus. F. E. Goldsmith. No. 973,649; Oct. 25; Sp. p. 4702; Gaz. vol. 159; p. 817.
Coating articles with pulverulent material, Apparatus for. C. Doering, Jr. No. 976,443; Nov. 22; Sp. p. 5233; Gaz. vol. 160; p. 888.
Coating composition, Liquid. P. Jaeger. No. 953,621; Mar. 29; Sp. p. 6545; Gaz. vol. 152; p. 1169.
Coating compositions, Making. R. D. Powers. No. 945,801; Jan. 11; Sp. p. 1761; Gaz. vol. 150; p. 295.
Coating for carbon bodies, Protective. H. Viertel and G. Egly. No. 976,319; Nov. 22; Sp. p. 4950; Gaz. vol. 160; p. 844.
Coating-machine. W. A. Zickerman. No. 953,570; Mar. 29; Sp. p. 6439; Gaz. vol. 152; p. 1152.
Coating-machine. J. R. Pulsifer. No. 956,602; May 3; Sp. p. 206; Gaz. vol. 154; p. 36.
Coating-machine. F. P. Wood. No. 968,826; Aug. 30; Sp. p. 6379; Gaz. vol. 157; p. 1112.
Coating machine, Liquid-. G. H. Benedict. No. 952,093; Mar. 15; Sp. p. 3298; Gaz. vol. 152; p. 594.
Coating metal objects. B. Hemann. No. 955,592; Apr. 19; Sp. p. 4089; Gaz. vol. 153; p. 714.
Coating metals by cementation. A. Sang. No. 948,663; Feb. 8; Sp. p. 1867; Gaz. vol. 151; p. 322.
Coating metals, Composition for. J. B. Higley and T. F. Ryan. No. 945,843; Jan. 11; Sp. p. 1877; Gaz. vol. 150; p. 311.
Coating or facing molds. G. H. Brabrook. No. 972,325; Oct. 11; Sp. p. 1758; Gaz. vol. 159; p. 309.
Coating perforated webs, Method and apparatus for. F. B. Thompson. No. 960,437; June 7; Sp. p. 397; Gaz. vol. 155; p. 67.
Coatings, Producing permanent, insoluble, incombustible, and washable. A. Sala. No. 963,810; July 12; Sp. p. 1750; Gaz. vol. 156; p. 290.
Cock. D. Craig. No. 974,027; Oct. 25; Sp. p. 5482; Gaz. vol. 159; p. 950.
Cock and drain-valve, Stop-. W. E. Peare. No. 968,794; Aug. 30; Sp. p. 6327; Gaz. vol. 157; p. 1103.
Cock and faucet. H. Mueller. No. 950,186; Feb. 22; Sp. p. 5114; Gaz. vol. 151; p. 897.
Cock and needle valve, Combined. L. E. Shaw. No. 975,469; Nov. 15; Sp. p. 3103; Gaz. vol. 160; p. 530.
Cock and the like. R. Klinger. No. 970,834; Sept. 20; Sp. p. 3648; Gaz. vol. 158; p. 623.
Cock and the like, Sill-. W. H. Dehn. No. 967,338; Aug. 16; Sp. p. 3218; Gaz. vol. 157; p. 557.
Cock and train-pipe connection, Angle-. M. A. Garrett. No. 957,325; May 10; Sp. p. 1793; Gaz. vol. 154; p. 313.
Cock and valve. H. Yuill and M. Favero. No. 954,156; Apr. 5; Sp. p. 980; Gaz. vol. 153; p. 165.
Cock attachment, Bath-. E. D. Snodgrass. No. 973,143; Oct. 18; Sp. p. 3601; Gaz. vol. 159; p. 621.

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Cock, Automatic drain-. J. G. Radick. No. 948,344; Feb. 8; Sp. p. 1174; Gaz. vol. 151; p. 215.
Cock, Ball-. G. E. Van Deusen. No. 948,748; Feb. 8; Sp. p. 2051; Gaz. vol. 151; p. 351.
Cock, Ball-. F. Muhl. No. 950,946; Mar. 1; Sp. p. 1015; Gaz. vol. 152; p. 162.
Cock, Ball-. F. Biedenmeister. No. 951,172; Mar. 8; Sp. p. 1433; Gaz. vol. 152; p. 260.
Cock, Ball-. C. H. Atkins. No. 966,417; Aug. 9; Sp. p. 1190; Gaz. vol. 157; p. 217.
Cock, Ball-. A. A. Carson. No. 972,331; Oct. 11; Sp. p. 1769; Gaz. vol. 159; p. 311.
Cock, Ball-. C. B. Whitney. No. 979,235; Dec. 20; Sp. p. 3955; Gaz. vol. 161; p. 683.
Cock, Basin-. J. F. Kelly. No. 958,927; May 24; Sp. p. 5483; Gaz. vol. 154; p. 920.
Cock, Basin-. W. S. Graham. No. 962,083; June 21; Sp. p. 3851; Gaz. vol. 155; p. 673.
Cock, Basin-. E. G. Watrous. No. 974,938; Nov. 8; Sp. p. 1950; Gaz. vol. 160; p. 321.
Cock, Basin-. J. M. McDonald. No. 978,773; Dec. 13; Sp. p. 2926; Gaz. vol. 161; p. 495.
Cock, Blow-off. R. W. Erskine. No. 968,037; Aug. 23; Sp. p. 4672; Gaz. vol. 157; p. 816.
Cock, Boiler blow-off. J. F. Zengler. No. 950,982; Mar. 1; Sp. p. 1082; Gaz. vol. 152; p. 174.
Cock, Corporation-. W. J. Barnstead. No. 958,073; May 17; Sp. p. 3560; Gaz. vol. 154; p. 600.
Cock, Filter-press. N. A. Lockwood. No. 974,580; Nov. 1; Sp. p. 1159; Gaz. vol. 160; p. 175.
Cock for air-brakes. H. H. Westinghouse. No. 977,242; Nov. 29; Sp. p. 6990; Gaz. vol. 160; p. 1188.
Cock for boilers, Draw-off. W. L. Belknap. No. 959,698; May 31; Sp. p. 7073; Gaz. vol. 154; p. 1200.
Cock for steam-boilers, Try-. T. Kelly and C. L. Gerds. No. 952,036; Mar. 15; Sp. p. 3204; Gaz. vol. 152; p. 576.
Cock for train-pipes, Angle-. C. Jenkins. No. 952,743; Mar. 22; Sp. p. 4667; Gaz. vol. 152; p. 844.
Cock for water-closet cisterns, Ball-. T. Bonroe. No. 960,801; June 7; Sp. p. 1137; Gaz. vol. 155; p. 190.
Cock, Gage-. L. J. Bordo. No. 947,172; Jan. 18; Sp. p. 4769; Gaz. vol. 150; p. 786.
Cock, Gage-. R. R. Shapley. No. 950,351; Feb. 22; Sp. p. 5439; Gaz. vol. 151; p. 954.
Cock, Gage-. F. W. Leidecker. No. 961,971; June 21; Sp. p. 3607; Gaz. vol. 155; p. 634.
Cock, Gage-. J. Stockwell. No. 964,329; July 12; Sp. p. 2822; Gaz. vol. 156; p. 465.
Cock, Gage-. J. R. Brown. No. 969,770; Sept. 13; Sp. p. 1339; Gaz. vol. 158; p. 237.
Cock, Gage-. J. V. Scaife. No. 973,074; Oct. 18; Sp. p. 3443; Gaz. vol. 159; p. 596.
Cock, Gage-. S. Patton. No. 974,515; Nov. 1; Sp. p. 1017; Gaz. vol. 160; p. 151.
Cock, Gage-. C. Wright. No. 978,256; Dec. 13; Sp. p. 1824; Gaz. vol. 161; p. 319.
Cock, Gage-. E. F. Shallow. No. 979,344; Dec. 20; Sp. p. 4166; Gaz. vol. 161; p. 718.
Cock, Gas-. E. J. Farnan. No. 950,382; Feb. 22; Sp. p. 5499; Gaz. vol. 151; p. 963.
Cock, Gas lock-. J. T. Clayton. No. 952,784; Mar. 22; Sp. p. 4764; Gaz. vol. 152; p. 858.
Cock, Locomotive-cylinder. J. E. Gleason. No. 952,898; Mar. 22; Sp. p. 4984; Gaz. vol. 152; p. 896.
Cock or faucet. A. C. Schuermann. No. 970,562; Sept. 20; Sp. p. 3027; Gaz. vol. 158; p. 527.
Cock, Plug-. H. J. Richard. No. 948,075; Feb. 1; Sp. p. 620; Gaz. vol. 151; p. 100.
Cock, Plug-. G. Robson. No. 975,162; Nov. 8; Sp. p. 2462; Gaz. vol. 160; p. 399.
Cock, Regulating-. W. N. Best. No. 948,036; Feb. 1; Sp. p. 536; Gaz. vol. 151; p. 86.
Cock, Reversible stop and waste. F. Weiss. No. 966,281; Aug. 2; Sp. p. 932; Gaz. vol. 157; p. 148.
Cock, Safety gas-. E. Van Wickle. No. 959,090; May 24; Sp. p. 5814; Gaz. vol. 154; p. 974.
Cock, Safety gas-. J. T. McDermott. No. 962,378; June 21; Sp. p. 4479; Gaz. vol. 155; p. 773.
Cock, Signal-. C. W. Sherburne. No. 975,645; Nov. 15; Sp. p. 3483; Gaz. vol. 160; p. 591.
Cock, Stop-. G. T. Stark. No. 953,067; Mar. 29; Sp. p. 5339; Gaz. vol. 152; p. 982.
Cock, Stop-. Z. L. Sault. No. 956,866; May 3; Sp. p. 799; Gaz. vol. 154; p. 127.
Cock, Stop-. L. S. Stacey. No. 963,403; July 5; Sp. p. 889; Gaz. vol. 156; p. 131.
Cock, Stop-. J. E. Van Nostran. No. 970,281; Sept. 13; Sp. p. 2438; Gaz. vol. 158; p. 411.
Cock, Stop and drain. F. A. Stanley. No. 978,952; Dec. 20; Sp. p. 3298; Gaz. vol. 161; p. 583.
Cock, Stop and waste. W. H. Dehn. No. 955,770; Apr. 19; Sp. p. 4487; Gaz. vol. 153; p. 774.
Cock, Stop and waste. T. B. Hensey. No. 960,323; June 7; Sp. p. 161; Gaz. vol. 155; p. 31.
Cock, Valve-. J. A. Lemétais. No. 975,440; Nov. 15; Sp. p. 3042; Gaz. vol. 160; p. 520.
Cock, Water-. S. Resek. No. 952,048; Mar. 15; Sp. p. 3224; Gaz. vol. 152; p. 580.
Cocks, Lock for fluid-. G. S. Jacobs. No. 963,226; July 5; Sp. p. 504; Gaz. vol. 156; p. 71.
Cocks, Rotatable index for. H. Mueller. No. 950,187; Feb. 22; Sp. p. 5116; Gaz. vol. 151; p. 898.
Cocoa and chocolate pot attachment. B. C. Inwood. No. 978,298; Dec. 13; Sp. p. 1916; Gaz. vol. 161; p. 335.
Code system, Cable-. C. H. Keehn. No. 970,716; Sept. 20; Sp. p. 3381; Gaz. vol. 158; p. 580.
Coffee and tea pot. W. V. Letherbury. No. 975,542; Nov. 15; Sp. p. 3275; Gaz. vol. 160; p. 556.
Coffee-beans, Extracting caffein from whole. H. Trillich. No. 953,074; Mar. 29; Sp. p. 5351; Gaz. vol. 152; p. 984.
Coffee, Caffein-free. R. Hübner. No. 947,577; Jan. 25; Sp. p. 5746; Gaz. vol. 150; p. 955.
Coffee-chaff extractor. E. T. Wear. No. 957,130; May 3; Sp. p. 1342; Gaz. vol. 154; p. 215.
Coffee-cleaning apparatus. W. D. Balcom. No. 957,138; May 3; Sp. p. 1353; Gaz. vol. 154; p. 217.
Coffee-cleaning apparatus. W. D. Balcom. No. 977,697; Dec. 6; Sp. p. 631; Gaz. vol. 161; p. 96.
Coffee-condenser. D. B. Fleming. No. 958,616; May 17; Sp. p. 4789; Gaz. vol. 154; p. 786.
Coffee, Eliminating the active toxic agent from. H. Evers. No. 978,866; Dec. 20; Sp. p. 3104; Gaz. vol. 161; p. 551.
Coffee, Extracting caffein from. H. Trillich. No. 953,073; Mar. 29; Sp. p. 5349; Gaz. vol. 152; p. 984.
Coffee, Extracting caffein from. H. Trillich. No. 964,944; July 19; Sp. p. 4233; Gaz. vol. 156; p. 707.
Coffee-gathering apparatus. J. Conceição. No. 968,742; Aug. 30; Sp. p. 6215; Gaz. vol. 157; p. 1086.
Coffee-maker. L. S. Flatau. No. 980,088; Dec. 27; Sp. p. 5781; Gaz. vol. 161; p. 991.
Coffee-mill. F. Bartz. No. 953,250; Mar. 29; Sp. p. 5755; Gaz. vol. 152; p. 1042.
Coffee-mill. F. Bartz. No. 953,251; Mar. 29; Sp. p. 5756; Gaz. vol. 152; p. 1042.
Coffee-mill. J. W. Sliger. No. 971,084; Sept. 27; Sp. p. 4151; Gaz. vol. 158; p. 732.
Coffee or tea pot. W. C. Leimbach, Jr., and F. H. Grimberg. No. 960,353; June 7; Sp. p. 236; Gaz. vol. 155; p. 40.
Coffee-pot. H. E. Biggins. No. 961,096; June 14; Sp. p. 1735; Gaz. vol. 155; p. 315.
Coffee-pot. C. Pearce. No. 971,781; Oct. 4; Sp. p. 567; Gaz. vol. 159; p. 99.
Coffee-pot. R. L. Ramey. No. 972,915; Oct. 18; Sp. p. 3094; Gaz. vol. 159; p. 543.
Coffee-roaster. A. E. Tava. No. 955,616; Apr. 19; Sp. p. 4152; Gaz. vol. 153; p. 723.
Coffee-stirring machine. J. L. Pledger. No. 979,558; Dec. 27; Sp. p. 4630; Gaz. vol. 161; p. 813.
Coffee substitute. F. Otto. No. 967,425; Aug. 16; Sp. p. 3410; Gaz. vol. 157; p. 587.
Coffee, Treating. L. Seisser. No. 953,643; Mar. 29; Sp. p. 6587; Gaz. vol. 152; p. 1176.
Coffee-urn. E. N. Bachelder. No. 951,626; Mar. 8; Sp. p. 2360; Gaz. vol. 152; p. 409.
Coffer-dam for placer-mining and pier-building. L. F. Gilman. No. 946,841; Jan. 18; Sp. p. 4108; Gaz. vol. 150; p. 680.
Coffin-case, Metallic. J. H. Schlafly. No. 962,590; June 28; Sp. p. 4983; Gaz. vol. 155; p. 872.
Coffin-mold. W. H. Biswell. No. 973,910; Oct. 25; Sp. p. 5243; Gaz. vol. 159; p. 909.
Coffins, Attachment for. U. H. Deering. No. 957,941; May 17; Sp. p. 3073; Gaz. vol. 154; p. 551.
Coil. A. Voegtle, H. C. Lea, and R. H. Voegtle. No. 972,950; Oct. 18; Sp. p. 3189; Gaz. vol. 159; p. 555.
Coil-bending machinery. J. A. Burns and J. W. Swoger. No. 959,452; May 31; Sp. p. 6543; Gaz. vol. 154; p. 1118.
Coil-former. J. Beech. No. 946,531; Jan. 18; Sp. p. 3434; Gaz. vol. 150; p. 577.
Coiling and feed mechanism. F. H. Richards. No. 957,905; May 17; Sp. p. 2992; Gaz. vol. 154; p. 539.
Coiling-machine. E. M. Lang, Jr. No. 978,039; Dec. 6; Sp. p. 1331; Gaz. vol. 161; p. 213.
Coiling mechanism. F. H. Richards. No. 958,767; May 24; Sp. p. 5099; Gaz. vol. 154; p. 862.
Coin-actuated mechanism. E. S. Hagen. No. 958,489; May 17; Sp. p. 4542; Gaz. vol. 154; p. 744.
Coin assorting and counting machine. P. E. Rees. No. 975,458; Nov. 15; Sp. p. 3075; Gaz. vol. 160; p. 526.
Coin-changer. W. H. Staats. No. 969,417; Sept. 6; Sp. p. 567; Gaz. vol. 158; p. 91.
Coin-chute. E. S. Hagen. No. 958,490; May 17; Sp. p. 4545; Gaz. vol. 156; p. 745.
Coin-controlled apparatus. L. W. Luellen. No. 946,242; Jan. 11; Sp. p. 2710; Gaz. vol. 150; p. 451.
Coin-controlled apparatus. A. Gerstenkorn. No. 958,621; May 17; Sp. p. 4795; Gaz. vol. 154; p. 788.
Coin-controlled apparatus. I. Robbins. No. 962,670; June 28; Sp. p. 5136; Gaz. vol. 155; p. 898.
Coin-controlled apparatus. A. S. Carnell. No. 967,725; Aug. 16; Sp. p. 4012; Gaz. vol. 157; p. 687.
Coin-controlled apparatus. J. M. Spendler. No. 969,914; Sept. 13; Sp. p. 1661; Gaz. vol. 158; p. 287.
Coin-controlled apparatus. J. H. McBride. No. 973,364; Oct. 18; Sp. p. 4074; Gaz. vol. 159; p. 697.
Coin-controlled indicator. W. H. Kluge. No. 955,968; Apr. 26; Sp. p. 4943; Gaz. vol. 153; p. 873.
Coin-controlled lock. W. S. Farnsworth and W. H. Reed. No. 948,212; Feb. 1; Sp. p. 882; Gaz. vol. 151; p. 145.

Coin-controlled lock. H. E. Lane. No. 948,894; Feb. 8; Sp. p. 2356; Gaz. vol. 151; p. 400.
Coin-controlled lock. W. H. Kluge. No. 950,821; Mar. 1; Sp. p. 776; Gaz. vol. 152; p. 123.
Coin-controlled lock. S. J. Kelly. No. 959,753; May 31; Sp. p. 7180; Gaz. vol. 154; p. 1219.
Coin-controlled lock. J. S. Merritt. No. 963,379; July 5; Sp. p. 831; Gaz. vol. 156; p. 123.
Coin-controlled lock. I. C. Strabley. No. 969,000; Aug. 30; Sp. p. 6729; Gaz. vol. 157; p. 1172.
Coin-controlled machine. L. D. Broughton and A. N. Lattin. No. 949,751; Feb. 22; Sp. p. 4119; Gaz. vol. 151; p. 746.
Coin-controlled machine. E. S. Scheble. No. 969,728; Sept. 6; Sp. p. 1217; Gaz. vol. 158; p. 197.
Coin-controlled mechanism. I. O. Carlson. No. 951,434; Mar. 8; Sp. p. 1979; Gaz. vol. 152; p. 344.
Coin-controlled mechanism. J. A. Evans. No. 961,219; June 14; Sp. p. 1987; Gaz. vol. 155; p. 359.
Coin-controlled mechanism. H. A. Bullard. No. 964,848; July 19; Sp. p. 4040; Gaz. vol. 156; p. 673.
Coin-controlled mechanism. R. B. Craig and A. Coffman. No. 967,332; Aug. 16; Sp. p. 3210; Gaz. vol. 157; p. 556.
Coin-controlled mechanism. R. B. Craig and A. Coffman. No. 973,763; Oct. 25; Sp. p. 4931; Gaz. vol. 159; p. 858.
Coin-controlled mechanism. G. H. Davis. No. 974,035; Oct. 25; Sp. p. 5498; Gaz. vol. 159; p. 953.
Coin-controlled mechanism, Single-action. J. W. Patterson. No. 949,438; Feb. 15; Sp. p. 3491; Gaz. vol. 151; p. 610.
Coin-controlled slide. R. P. Hammond. No. 970,045; Sept. 13; Sp. p. 1955; Gaz. vol. 158; p. 331.
Coin counting and wrapping mechanism. P. Hochgürtel. No. 973,658; Oct. 25; Sp. p. 4727; Gaz. vol. 159; p. 821.
Coin-detector. F. Schorik. No. 960,716; June 7; Sp. p. 969; Gaz. vol. 155; p. 161.
Coin-freed lock for caretakers. P. Kopal. No. 948,295; Feb. 1; Sp. p. 1069; Gaz. vol. 151; p. 173.
Coin-freed prepayment mechanism. W. Hamilton. No. 953,612; Mar. 29; Sp. p. 6526; Gaz. vol. 152; p. 1166.
Coin-freed prepayment mechanism. W. Hamilton. No. 965,891; Aug. 2; Sp. p. 99; Gaz. vol. 157; p. 16.
Coin-holder. E. Reizenstein. No. 954,589; Apr. 12; Sp. p. 1903; Gaz. vol. 153; p. 339.
Coin-holder. C. A. Lundgren. No. 963,784; July 12; Sp. p. 1680; Gaz. vol. 156; p. 281.
Coin-holder. L. Nelson. No. 970,097; Sept. 13; Sp. p. 2054; Gaz. vol. 158; p. 349.
Coin-holder. F. G. Shuman. No. 971,154; Sept. 27; Sp. p. 4285; Gaz. vol. 158; p. 754.
Coin-holder. F. J. Lightbody. No. 976,191; Nov. 22; Sp. p. 4639; Gaz. vol. 160; p. 798.
Coin-holder or change-maker. J. W. Jones. No. 958,648; May 17; Sp. p. 4847; Gaz. vol. 154; p. 796.
Coin-operated apparatus. C. Perdrisat. No. 968,075; Aug. 23; Sp. p. 4763; Gaz. vol. 157; p. 829.
Coin-operated key-lock. C. E. Guthrie, M. C. Jones, J. P. Guthrie, and J. W. Hunt. No. 955,792; Apr. 19; Sp. p. 4529; Gaz. vol. 153; p. 782.
Coin-operated lock. H. F. Chreitzberg. No. 957,743; May 10; Sp. p. 2632; Gaz. vol. 154; p. 454.
Coin-register. C. Schmidt. No. 973,981; Oct. 25; Sp. p. 5368; Gaz. vol. 159; p. 934.
Coin-selector. G. C. Reith and G. F. Flade. No. 973,302; Oct. 18; Sp. p. 3943; Gaz. vol. 159; p. 675.
Coin-tester. W. F. Trippensee. No. 953,363; Mar. 29; Sp. p. 6001; Gaz. vol. 152; p. 1079.
Coin-tester for coin-freed apparatus, Automatic. H. Wollheim. No. 977,771; Dec. 6; Sp. p. 776; Gaz. vol. 161; p. 120.
Coin-tester for coin-freed apparatus, Automatic. H. Wollheim. No. 980,040; Dec. 27; Sp. p. 5670; Gaz. vol. 161; p. 976.
Coin-wrapper. E. Meyers. No. 949,987; Feb. 22; Sp. p. 4693; Gaz. vol. 151; p. 830.
Coin-wrapping device. L. E. Ayres, Jr. No. 961,832; June 21; Sp. p. 3303; Gaz. vol. 155; p. 589.
Coins, Machine for counting and packaging. A. Abbott. No. 961,473; June 14; Sp. p. 2537; Gaz. vol. 155; p. 445.
Coke, &c., Apparatus for handling. W. C. Mitchell. No. 977,119; Nov. 29; Sp. p. 6727; Gaz. vol. 160; p. 1145.
Coke-breeze, Utilizing. H. A. Tobelmann. No. 978,236; Dec. 13; Sp. p. 1777; Gaz. vol. 161; p. 312.
Coke-drawer. A. H. Reeder. No. 980,004; Dec. 27; Sp. p. 5580; Gaz. vol. 161; p. 964.
Coke drawer and loader. F. D. Buffum. No. 966,425; Aug. 9; Sp. p. 1206; Gaz. vol. 157; p. 219.
Coke-drawing machine. H. Greer, Jr. No. 977,522; Dec. 6; Sp. p. 235; Gaz. vol. 161; p. 35.
Coke-furnace. W. Mueller. No. 971,137; Sept. 27; Sp. p. 4248; Gaz. vol. 158; p. 749.
Coke in coke-ovens, Apparatus for watering. W. L. Affelder and M. Gorton. No. 949,290; Feb. 15; Sp. p. 3162; Gaz. vol. 151; p. 557.
Coke in coke-ovens, Apparatus for watering. W. L. Affelder and M. Gorton. No. 954,241; Apr. 5; Sp. p. 1165; Gaz. vol. 153; p. 194.
Coke-oven. W. J. Kearns. No. 956,974; May 3; Sp. p. 1038; Gaz. vol. 154; p. 163.
Coke-oven. W. Mueller. No. 958,154; May 17; Sp. p. 3718; Gaz. vol. 154; p. 628.
Coke-oven. W. H. Blauvelt. No. 963,681; July 5; Sp. p. 1429; Gaz. vol. 156; p. 224.
Coke-oven. W. W. Peck. No. 974,423; Nov. 1; Sp. p. 776; Gaz. vol. 160; p. 117.
Coke-oven and door therefor. F. W. C. Schniewind. No. 976,931; Nov. 29; Sp. p. 6292; Gaz. vol. 160; p. 1079.
Coke-oven and door therefor. F. W. C. Schniewind. No. 976,935; Nov. 29; Sp. p. 6306; Gaz. vol. 160; p. 1081.
Coke-oven and heating arrangement therefor. F. W. C. Schniewind. No. 976,930; Nov. 29; Sp. p. 6284; Gaz. vol. 160; p. 1078.
Coke-oven burner. F. W. C. Schniewind. No. 976,929; Nov. 29; Sp. p. 6281; Gaz. vol. 160; p. 1078.
Coke-oven construction. W. H. Blauvelt. No. 947,524; Jan. 25; Sp. p. 5636; Gaz. vol. 150; p. 936.
Coke-oven-discharging apparatus. F. W. C. Schniewind. No. 976,934; Nov. 29; Sp. p. 6300; Gaz. vol. 160; p. 1080.
Coke-oven door. J. F. Peters. No. 948,936; Feb. 8; Sp. p. 2422; Gaz. vol. 151; p. 413.
Coke-oven door. J. J. Alley. No. 950,422; Feb. 22; Sp. p. 5570; Gaz. vol. 151; p. 977.
Coke-oven door. W. O. Abbott. No. 950,983; Mar. 1; Sp. p. 1083; Gaz. vol. 152; p. 174.
Coke-oven door. F. D. Buffum, H. N. Eavenson, and E. O'Toole. No. 962,123; June 21; Sp. p. 3956; Gaz. vol. 155; p. 688.
Coke-oven leveler. A. E. Brown. No. 952,558; Mar. 22; Sp. p. 4254; Gaz. vol. 152; p. 780.
Coke-oven, Regenerative. E. Wagener. No. 977,348; Nov. 29; Sp. p. 7195; Gaz. vol. 160; p. 1223.
Coke-oven, Vertical-flue. C. Wilke. No. 946,181; Jan. 11; Sp. p. 2583; Gaz. vol. 150; p. 429.
Coke-oven walls, Preventing the destruction of. H. Koppers. No. 945,331; Jan. 4; Sp. p. 718; Gaz. vol. 150; p. 110.
Coke-ovens, Construction of gas-discharging devices for retort. W. H. Allen, Jr. No. 947,522; Jan. 25; Sp. p. 5633; Gaz. vol. 150; p. 936.
Coke-ovens, Folding coke and coal handling machine for. J. E. A. Moore. No. 959,246; May 24; Sp. p. 6135; Gaz. vol. 154; p. 1025.
Coke-ovens, Heating arrangement for retort. E. W. King. No. 970,720; Sept. 20; Sp. p. 3389; Gaz. vol. 158; p. 581.
Coke-ovens, Operating retort. A. F. Hilleke. No. 973,044; Oct. 18; Sp. p. 3387; Gaz. vol. 159; p. 586.
Coke-ovens, System of heating-flues for retort. W. H. Blauvelt. No. 947,525; Jan. 25; Sp. p. 5637; Gaz. vol. 150; p. 937.
Coke, Quenching. E. Schulte. No. 958,184; May 17; Sp. p. 3777; Gaz. vol. 154; p. 638.
Coke, Quenching. H. Koppers. No. 958,651; May 17; Sp. p. 4854; Gaz. vol. 154; p. 797.
Coke-quenching machine. T. J. Mitchell and J. A. McCreary. No. 956,397; Apr. 26; Sp. p. 5874; Gaz. vol. 153; p. 1021.
Coke retort-oven. V. D. F. Fieschi. No. 964,635; July 19; Sp. p. 3500; Gaz. vol. 156; p. 599.
Coke, Treatment of. B. Ely and A. Rollason. No. 972,352; Oct. 11; Sp. p. 1818; Gaz. vol. 159; p. 319.
Coking coals. L. L. Summers. No. 968,499; Aug. 23; Sp. p. 5661; Gaz. vol. 157; p. 975.
Coking process. L. L. Summers. No. 951,786; Mar. 8; Sp. p. 2689; Gaz. vol. 152; p. 464.
Collapsible box. J. M. and D. C. Jones. No. 958,647; May 17; Sp. p. 4846; Gaz. vol. 154; p. 796.
Collapsible box. K. Smith. No. 970,858; Sept. 20; Sp. p. 3693; Gaz. vol. 158; p. 630.
Collapsible box. M. W. Randall. No. 974,596; Nov. 1; Sp. p. 1186; Gaz. vol. 160; p. 181.
Collapsible box. F. Pinto. No. 974,820; Nov. 8; Sp. p. 1676; Gaz. vol. 160; p. 281.
Collapsible box. S. Modern. No. 979,877; Dec. 27; Sp. p. 5331; Gaz. vol. 161; p. 922.
Collapsible table or seat. M. Smiljanic. No. 965,338; July 26; Sp. p. 5056; Gaz. vol. 156; p. 869.
Collapsible tub. J. D. Green. No. 962,954; June 28; Sp. p. 5688; Gaz. vol. 155; p. 997.
Collapsible tube. W. S. Morrison. No. 955,530; Apr. 19; Sp. p. 3950; Gaz. vol. 153; p. 693.
Collar. P. E. Heery. No. 945,164; Jan. 4; Sp. p. 325; Gaz. vol. 150; p. 54.
Collar. M. L. McGuire. No. 946,980; Jan. 18; Sp. p. 4415; Gaz. vol. 150; p. 726.
Collar. H. Y. Scott. No. 960,720; June 7; Sp. p. 978; Gaz. vol. 155; p. 163.
Collar. E. J. Quigley. No. 962,665; June 28; Sp. p. 5128; Gaz. vol. 155; p. 896.
Collar. C. W. Ferguson. No. 971,031; Sept. 27; Sp. p. 4034; Gaz. vol. 158; p. 714.
Collar. F. H. Stacey. No. 971,700; Oct. 4; Sp. p. 396; Gaz. vol. 159; p. 69.
Collar. C. Kahn. No. 976,658; Nov. 22; Sp. p. 5686; Gaz. vol. 160; p. 962.
Collar. J. G. Greter. No. 978,738; Dec. 13; Sp. p. 2865; Gaz. vol. 161; p. 485.
Collar, Adjustable horse-. A. L. Burke. No. 960,810; June 7; Sp. p. 1159; Gaz. vol. 155; p. 193.
Collar and cuff fastener, Detachable. M. J. Dahill, Jr. No. 969,846; Sept. 13; Sp. p. 1532; Gaz. vol. 158; p. 263.

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Collar and cuff folding machine. G. Reece. No. 972,916; Oct. 18; Sp. p. 3096; Gaz. vol. 159; p. 543.
Collar and lapel for ready-made garments, Adjustable. A. C. Herzberg. No. 951,395; Mar. 8; Sp. p. 1906; Gaz. vol. 152; p. 331.
Collar-attaching device. D. Marinsky. No. 945,240; Jan. 4; Sp. p. 489; Gaz. vol. 150; p. 80.
Collar attachment. E. M. Crane. No. 970,891; Sept. 20; Sp. p. 3755; Gaz. vol. 158; p. 641.
Collar attachment for harness. N. A. Nissen. No. 973,293; Oct. 18; Sp. p. 3930; Gaz. vol. 159; p. 673.
Collar attachment, Horse-. W. B. Walker. No. 962,180; June 21; Sp. p. 4082; Gaz. vol. 155; p. 708.
Collar, Automatic spring take-up. C. H. McLaughlin. No. 972,216; Oct. 11; Sp. p. 1559; Gaz. vol. 159; p. 273.
Collar-blanks, Flexible die for forming. J. W. Condon. No. 951,102; Mar. 8; Sp. p. 1300; Gaz. vol. 152; p. 238.
Collar-box and the like. J. Reid. No. 979,701; Dec. 27; Sp. p. 4923; Gaz. vol. 161; p. 863.
Collar-burnishing machine. G. F. Kriesel. No. 952,674; Mar. 22; Sp. p. 4518; Gaz. vol. 152; p. 821.
Collar, Coat-. M. Koppelman. (Reissue.) No. 13,104; Apr. 19; Sp. p. 4645; Gaz. vol. 153; p. 801.
Collar, Coat-. C. Kaufman. No. 956,710; May 3; Sp. p. 457; Gaz. vol. 154; p. 73.
Collar, Coat-. R. T. Matheson. No. 962,403; June 21; Sp. p. 4529; Gaz. vol. 155; p 781.
Collar-fastener. J. E. Crothers. No. 963,747; July 12; Sp. p. 1600; Gaz. vol. 156; p. 269.
Collar-fastener. C. Tompsett. No. 965,668; July 26; Sp. p. 5774; Gaz. vol. 156; p. 983.
Collar-fastener. C. B. A. Schaefer. No. 979,342; Dec. 20; Sp. p. 4163; Gaz. vol. 161; p. 718.
Collar-fastener and tie-support, Combined. W. O. Pierce. No. 953,547; Mar. 29; Sp. p. 6389; Gaz. vol. 152; p. 1144.
Collar fastener, Animal-. J. Meyer and I. Silversmith. No. 965,210; July 26; Sp. p. 4767; Gaz. vol. 156; p. 824.
Collar fastener, Horse-. A. J. Dains. No. 953,597; Mar. 29; Sp. p. 6496; Gaz. vol. 152; p. 1161.
Collar fastener, Horse-. R. J. Cassan. No. 978,006; Dec. 6; Sp. p. 1258; Gaz. vol. 161; p. 202.
Collar for coats and other garments. L. Wolf. No. 963,106; July 5; Sp. p. 218; Gaz. vol. 156; p. 28.
Collar for decoy-ducks. L. J. Micka. No. 971,392; Sept. 27; Sp. p. 4764; Gaz. vol. 158; p. 833.
Collar for draft-animals. C. Young. No. 975,920; Nov. 15; Sp. p. 4058; Gaz. vol. 160; p. 683.
Collar-guide. M. Tillie. No. 957,816; May 10; Sp. p. 2785; Gaz. vol. 154; p. 478.
Collar holder or retainer. A. L. A. Biddeloo. No. 971,017; Sept. 27; Sp. p. 3992; Gaz. vol. 158; p. 709.
Collar, Horse-. E. T. Whiting. No. 951,469; Mar. 8; Sp. p. 2057; Gaz. vol. 152; p. 356.
Collar, Horse-. G. W. Todd. No. 959,652; May 31; Sp. p. 6971; Gaz. vol. 154; p. 1187.
Collar, Horse-. W. F. Baker. No. 963,497; July 5; Sp. p. 1069; Gaz. vol. 156; p. 163.
Collar, Horse-. E. Brown. No. 969,837; Sept. 13; Sp. p. 1512; Gaz. vol. 158; p. 259.
Collar, Horse-. M. Lauterbach. No. 978,907; Dec. 20; Sp. p. 3185; Gaz. vol 161; p. 566.
Collar neck-pad, Metallic harness-. F. Slocum. No. 963,950; July 12; Sp. p. 2043; Gaz. vol. 156; p. 335.
Collar or hame fastener. A. O. McNatton. No. 979,321; Dec. 20 Sp. p. 4128; Gaz. vol. 161; p. 711.
Collar, Overcoat-. L. Lyons. No. 949,773; Feb. 22; Sp. p. 4167; Gaz. vol. 151; p. 753.
Collar-pad. J. H. Wolf. No. 951,167; Mar. 8; Sp. p. 1423; Gaz. vol. 152; p. 258.
Collar-pad fastener, Horse-. J. E. Chantler. No. 962,125; June 21; Sp. p. 3958; Gaz. vol. 155; p. 688.
Collar protector and fastener, Horse-. C. B. Deeds. No. 974,755; Nov. 1; Sp. p. 1535; Gaz. vol. 160; p. 235.
Collar, Sheep-. C. P. Ballard. No. 948,407; Feb. 8; Sp. p. 1326; Gaz. vol. 151; p. 237.
Collar, Shirt-. N. Kauffmann. No. 949,237; Feb. 15; Sp. p. 3051; Gaz. vol. 151; p. 540.
Collar-stiffener. N. Simon. No. 965,416; July 26; Sp. p. 5207; Gaz. vol. 156; p. 894.
Collar stiffener, Garment-. R. Gaspard. No. 965,383; July 26; Sp. p. 5141; Gaz. vol. 156; p. 882.
Collar-stuffing machine, Horse-. J. C. Collett and J. Rennie. No. 949,293; Feb. 15; Sp. p. 3170; Gaz. vol. 151; p. 558.
Collar-stuffing machine, Horse-. J. C. Collett. No. 964,463; July 12; Sp. p. 3082; Gaz. vol. 156; p. 506.
Collar-stuffing machine, Horse-. R. and P. Brownson. No. 966,079; Aug. 2; Sp. p. 506; Gaz. vol. 157; p. 82.
Collar-support. G. Keitel. (Reissue.) No. 13,070; Jan. 4; Sp. p. 1595; Gaz. vol. 150; p. 247.
Collar-support. I. J. Stewart. No. 968,712; Aug. 30; Sp. p. 6157; Gaz. vol. 157; p. 1075.
Collar-supporter. C. C. Morris. No. 960,989; June 7; Sp. p. 1502; Gaz. vol. 155; p. 252.
Collar, &c., supporter. W. H. Wilson. No. 975,493; Nov. 15; Sp. p. 3154; Gaz. vol. 160; p. 538.
Collar-supporter. H. N. Northrop. No. 975,986; Nov. 15; Sp. p. 4170; Gaz. vol. 160; p. 706.
Collar-supporter, Adjustable. F. S. Reynolds. No. 968,801; Aug. 30; Sp. p. 6338; Gaz. vol. 157; p. 1105.
Collar supporter and retainer. D. Marinsky. No. 950,073; Feb. 22; Sp. p. 4876; Gaz. vol. 151; p. 858.
Collars and analogous articles, Apparatus for reshaping. L. V. Estes and W. Forward. No. 966,434; Aug. 9; Sp. p. 1229; Gaz. vol. 157; p. 223.
Collars and analogous articles, Reshaping. L. V. Estes and W. Forward. No. 966,435; Aug. 9; Sp. p. 1232; Gaz. vol. 157; p. 223.
Collars, &c., Machine for bending. J. K. P. Pine. No. 974,426; Nov. 1; Sp. p. 782; Gaz. vol. 160; p. 118.
Collars, Machine for blocking horse-. J. B. Gathright. No. 968,143; Aug. 23; Sp. p. 4905; Gaz. vol. 157; p. 851.
Collars, Machine for folding and ironing the edges of. C. Riesenweber. No. 951,917; Mar. 15; Sp. p. 2979; Gaz. vol. 152; p. 539.
Collars, Pneumatic pad for horse-. W. A. Skillman. No. 968,607; Aug. 30; Sp. p. 5898; Gaz. vol. 157; p. 1039.
Collars, Reinforcing and supporting device for flexible. D. Marinsky. No. 962,514; June 28; Sp. p. 4799; Gaz. vol. 155; p. 845.
Collars, Spacing device for use with turned-down. C. J. Kintner. No. 977,100; Nov. 29; Sp. p. 6683; Gaz. vol. 160; p. 1137.
Collars, Stay for lace and other soft. H. Edmonds. No. 966,893; Aug. 9; Sp. p. 2300; Gaz. vol. 157; p. 377.
Collaret-machine. J. P. Weis and L. Krug. No. 976,963; Nov. 29; Sp. p. 6378; Gaz. vol. 160; p. 1091.
Collector. A. Goedecker. No. 948,924; Feb. 8; Sp. p. 2402; Gaz. vol. 151; p. 409.
Collet. A. R. Simmerly. No. 970,129; Sept. 13; Sp. p. 2108; Gaz. vol. 158; p. 359.
Colloids, Liquefying organic. F. Supf. No. 974,448; Nov. 1; Sp. p. 856; Gaz. vol. 160; p. 126.
Colloids, Manufacturing articles with the use of. H. Kuzel. No. 969,064; Aug. 30; Sp. p. 6860; Gaz. vol. 157; p. 1194.
Color-box. A. Triebling. No. 976,317; Nov. 22; Sp. p. 4947; Gaz. vol. 160; p. 843.
Color, Medium for oil-. W. B. Allen. No. 960,141; May 31; Sp. p. 8051; Gaz. vol. 154; p. 1353.
Color-press and blanker, Sectional. E. G. Staude. No. 969,418; Sept. 6; Sp. p. 570; Gaz. vol. 158; p. 91.
Color-screen. H. E. Merwin. No. 977,420; Nov. 29; Sp. p. 7382; Gaz. vol. 160; p. 1248.
Color shades, Device for finding harmonic. C. Schnebel. No. 974,924; Nov. 8; Sp. p. 1919; Gaz. vol. 160; p. 317.
Color-stamping, Composition of matter adapted for use in the art of. S. Weinberg. No. 959,185; May 24; Sp. p. 6014; Gaz. vol. 154; p. 1005.
Colors and making same, Blue sulfid. R. Herz and E. Saul. No. 960,919; June 7; Sp. p. 1356; Gaz. vol. 155; p. 228.
Colors and making same, Nitro-ortho-oxy-azo. K. Elbel. No. 958,912; May 24; Sp. p. 5459; Gaz. vol. 154; p. 915.
Colors, Fixing sulfid. L. Lichtenstein. No. 960,975; June 7; Sp. p. 1475; Gaz. vol. 155; p. 248.
Coloring composition. R. H. Enoch and J. Taylor. No. 963,037; July 5; Sp. p. 19; Gaz. vol. 156; p. 5.
Coloring-matter, Brown. M. Kahn. No. 946,052; Jan. 11; Sp. p. 2312; Gaz. vol. 150; p. 384.
Coloring-matter from titaniferous iron minerals, Manufacture of. P. Farup. No. 966,815; Aug. 9; Sp. p. 2141; Gaz. vol. 157; p. 353.
Colorimeter. A. M. Parks. No. 977,964; Dec. 6; Sp. p. 1185; Gaz. vol. 161; p. 189.
Colter. W. Stacy. No. 959,637; May 31; Sp. p. 6938; Gaz. vol. 154; p. 1182.
Colter-fastening. J. W. Hiett. No. 962,508; June 28; Sp. p. 4789; Gaz. vol. 155; p. 843.
Colter, Plow-. J. R. Davis. No. 960,628; June 7; Sp. p. 801; Gaz. vol. 155; p. 131.
Column. A. W. Ford. No. 969,097; Aug. 30; Sp. p. 6924; Gaz. vol. 157; p. 1206.
Column. C. C. Barrick. No. 973,615; Oct. 25; Sp. p. 4626; Gaz. vol. 159; p. 804.
Column and making same. A. G. Higgins. No. 945,949; Jan. 11; Sp. p. 2102; Gaz. vol. 150; p. 350.
Column-base. S. L. Riley. No. 970,555; Sept. 20; Sp. p. 3013; Gaz. vol. 158; p. 525.
Column for wharves, piers, &c., Supporting-. S. G. Hindes. No. 953,088; Mar. 29; Sp. p. 5393; Gaz. vol. 152; p. 989.
Column, Hollow. A. R. Beal and A. Hettel. No. 965,982; Aug. 2; Sp. p. 291; Gaz. vol. 157; p. 48.
Columns, Making artificial-stone or plaster. A. G. Higgins. No. 945,948; Jan. 11; Sp. p. 2099; Gaz. vol. 150; p. 350.
Columns, Protecting submerged supporting-. S. G. Hindes. No. 947,237; Jan. 25; Sp. p. 4917; Gaz. vol. 150; p. 838.
Columns, Tie-strip for porch-. P. Kosack. No. 963,777; July 12; Sp. p. 1667; Gaz. vol. 156; p. 279.
Comb: *See* Currycomb; Fountain-comb; Hair-comb; Hair-dressing comb; Hair-dyeing comb; Self-cleaning comb; Singeing-comb; Toilet-comb.
Comb. C. B. Thurman. No. 946,622; Jan. 18; Sp. p. 3612; Gaz. vol. 150; p. 605.
Comb. I. E. L. Shearer. No. 950,963; Mar. 1; Sp. p. 1053; Gaz. vol. 152; p. 168.
Comb. J. W. Gonce. No. 952,732; Mar. 22; Sp. p. 4634; Gaz. vol. 152; p. 840.

Comb. H. C. Heffner and F. E. Wilson. No. 953,267; Mar. 29; Sp. p. 5788; Gaz. vol. 152; p. 1047.
Comb. L. B. Zumbrook. No. 954,240; Apr. 5; Sp. p. 1164; Gaz. vol. 153; p. 194.
Comb. E. E. Keefe. No. 959,866; May 31; Sp. p. 7438; Gaz. vol. 154; p. 1258.
Comb. E. E. Keefe. No. 959,867; May 31; Sp. p. 7440; Gaz. vol. 154; p. 1259.
Comb. A. H. Lent. No. 968,371; Aug. 23; Sp. p. 5399; Gaz. vol. 157; p. 931.
Comb. J. F. Lynch. No. 973,361; Oct. 18; Sp. p. 4066; Gaz. vol. 159; p. 696.
Comb and brush, Combined. W. C. Jones. No. 967,781; Aug. 16; Sp. p. 4125; Gaz. vol. 157; p. 706.
Comb-cleaner. G. H. Winter. No. 950,125; Feb. 22; Sp. p. 4984; Gaz. vol. 151; p. 876.
Comb-cleaner. J. Oppenheimer. No. 961,252; June 14; Sp. p. 2047; Gaz. vol. 155; p. 369.
Comb-cleaner. W. P. Smith. No. 966,483; Aug. 9; Sp. p. 1358; Gaz. vol. 157; p. 240.
Comb-cleaner. O. L. Albertson. No. 976,331; Nov. 22; Sp. p. 4973; Gaz. vol. 160; p. 847.
Comb-cleaner. O. C. Felder. No. 979,660; Dec. 27; Sp. p. 4844; Gaz. vol. 161; p. 849.
Comb-cleaner. F. X. Cote. No. 979,747; Dec. 27; Sp. p. 5049; Gaz. vol. 161; p. 879.
Comb-cleaning holder, Automatic. C. N. Harrington. No. 952,328; Mar. 15; Sp. p. 3765; Gaz. vol. 152; p. 674.
Comb-shears. R. Kuhle. No. 976,581; Nov. 22; Sp. p. 5532; Gaz. vol. 160; p. 934.
Combs, &c., Apparatus for making. J. Wilcox. No. 956,560; May 3; Sp. p. 111; Gaz. vol. 154; p. 21.
Combing fibrous materials, Machine for. F. Schmidt and C. Fremaux. No. 948,665; Feb. 8; Sp. p. 1869; Gaz. vol. 151; p. 323.
Combing-machine. A. B. Evans, F. Marcaurele, and F. R. Langlois. No. 979,389; Dec. 20; Sp. p. 4247; Gaz. vol. 161; p. 732.
Combing-machine for cotton fibers. P. E. Willis. No. 947,070; Jan. 18; Sp. p. 4582; Gaz. vol. 150; p. 756.
Combing machine, Fringe-. J. D. Pennington and F. C. Andrews. No. 949,088; Feb. 15; Sp. p. 2755; Gaz. vol. 151; p. 489.
Combing machines, Automatic stop mechanism for wool-. H. R. Westwell. No. 979,620; Dec. 27; Sp. p. 4761; Gaz. vol. 161; p. 836.
Combing machines, Construction of and means for actuating the dabbers of wool-. C. V. Boys and J. W. Tierney. No. 955,752; Apr. 19; Sp. p. 4453; Gaz. vol. 153; p. 768.
Combing-machines, Spindle-support for rollers of. A. R. Whitehead. No. 957,921; May 17; Sp. p. 3034; Gaz. vol. 154; p. 544.
Combination-furnace. T. Holland. No. 963,024; June 28; Sp. p. 5827; Gaz. vol. 155; p. 1020.
Combination-lock. S. N. Friedman. No. 952,797; Mar. 22; Sp. p. 4786; Gaz. vol. 152; p. 862.
Combination-lock. D. Dorman. No. 953,599; Mar. 29; Sp. p. 6499; Gaz. vol. 152; p. 1161.
Combination-lock. A. and S. Leszczynsky. No. 953,628; Mar. 29; Sp. p. 6555; Gaz. vol. 152; p. 1171.
Combination-lock. O. M. Larkin. No. 959,234; May 24; Sp. p. 6110; Gaz. vol. 154; p. 1021.
Combination-lock. J. W. Hunter. No. 961,236; June 14; Sp. p. 2021; Gaz. vol. 155; p. 364.
Combination-lock. M. L. Hitchcock. No. 970,924; Sept. 20; Sp. p. 3813; Gaz. vol. 158; p. 650.
Combination-lock. H. Hanflig. No. 976,872; Nov. 29; Sp. p. 6138; Gaz. vol. 160; p. 1058.
Combination-wrench. G. E. Anderson. No. 956,467; Apr. 26; Sp. p. 6023; Gaz. vol. 153; p. 1045.
Combustion-engine. C. E. Henriod. No. 951,117; Mar. 8; Sp. p. 1322; Gaz. vol. 152; p. 242.
Combustion, Method of and apparatus for utilizing products of. C. A. Backstrom. No. 974,458; Nov. 1; Sp. p. 884; Gaz. vol. 160; p. 130.
Combustion recorder or indicator. S. D. Merton. No. 953,481; Mar. 29; Sp. p. 6246; Gaz. vol. 152; p. 1120.
Combustion-regulating apparatus. G. W. Parker. No. 949,596; Feb. 15; Sp. p. 3792; Gaz. vol. 151; p. 660.
Commode or seat, Portable folding. C. A. Conrard. No. 945,119; Jan. 4; Sp. p. 229; Gaz. vol. 150; p. 39.
Commodes and cuspidors, Lifting-tool for. W. Oberg. No. 976,282; Nov. 22; Sp. p. 4873; Gaz. vol. 160; p. 832.
Communion-service holder. W. H. Dietz. No. 967,343; Aug. 16; Sp. p. 3228; Gaz. vol. 157; p. 559.
Commutator. H. T. Johnson. No. 958,405; May 17; Sp. p. 4376; Gaz. vol. 154; p. 715.
Commutator bar and lead. C. E. Lord. No. 969,892; Sept. 13; Sp. p. 1618; Gaz. vol. 158; p. 279.
Commutator construction. F. E. Hirt. No. 953,832; Apr. 5; Sp. p. 298; Gaz. vol. 153; p. 53.
Commutator construction. F. Jeffrey. No. 970,233; Sept. 13; Sp. p. 2344; Gaz. vol. 158; p. 395.
Commutator for dynamo-electric machines. F. W. Young. No. 947,768; Jan. 25; Sp. p. 6105; Gaz. vol. 150; p. 1018.
Commutator for dynamo-electric machines. M. Walker. No. 949,103; Feb. 15; Sp. p. 2783; Gaz. vol. 151; p. 494.
Commutator-motor. E. F. W. Alexanderson. No. 949,992; Feb. 22; Sp. p. 4703; Gaz. vol. 151; p. 831.
Commutator-motor, Alternate-current. V. A. Fynn. No. 960,884; June 7; Sp. p. 1299; Gaz. vol. 155; p. 217.
Commutator-motor, Polyphase. V. A. Fynn. No. 960,882; June 7; Sp. p. 1294; Gaz. vol. 155; p. 216.
Commutator-motor, Polyphase. V. A. Fynn. No. 960,883; June 7; Sp. p. 1296; Gaz. vol. 155; p. 217.
Commutator-motor, Single-phase. V. A. Fynn. No. 946,503; Jan. 11; Sp. p. 3369; Gaz vol. 150; p. 540.
Commutator-motor, Single-phase. E. F. W. Alexanderson. No. 951,357; Mar. 8; Sp. p. 1818; Gaz. vol. 152; p. 319.
Commutator-motor, Single-phase. E. F. W. Alexanderson. No. 953,366; Mar. 29; Sp. p. 6006; Gaz. vol. 152; p. 1080.
Commutator-truing machine. O. E. Hunt. No. 945,784; Jan. 11; Sp. p. 1724; Gaz. vol. 150; p. 289.
Commutator-truing machine. O. E. Hunt. No. 971,753; Oct. 4; Sp. p. 513; Gaz. vol. 159; p. 89.
Commutators of dynamos and motors, Machine for grinding. W. H. Jordan. No. 969,633; Sept. 6; Sp. p. 1025; Gaz. vol. 158; p. 164.
Commutators or collecting-rings, Device for grinding. W. Gerb. No. 945,270; Jan. 4; Sp. p. 551; Gaz. vol. 150; p. 90.
Compacting-machine. W. H. Bowman. No. 964,203; July 12; Sp. p. 2558; Gaz. vol. 156; p. 422.
Compartment-case. C. A. Studds. No. 968,287; Aug. 23; Sp. p. 5235; Gaz. vol. 157; p. 901.
Compass. W. L. Murphy. No. 957,238; May 10; Sp. p. 1601; Gaz. vol. 154; p. 282.
Compass, Beam-. P. S. Heller and A. S. Kline. No. 953,464; Mar. 29; Sp. p. 6210; Gaz. vol. 152; p. 1114.
Compass, Beam-. T. F. Hannan. No. 972,106; Oct. 4; Sp. p. 1275; Gaz. vol. 159; p. 216.
Compass, Marine. H. Hertzberg. No. 980,155; Dec. 27; Sp. p. 5941; Gaz. vol. 161; p. 1014.
Compass, Non-magnetic. A. H. Lessells. No. 963,597; July 5; Sp. p. 1281; Gaz. vol. 156; p. 196.
Compass, Recording-. E. Schuette and N. Dedrick. No. 978,942; Dec. 20; Sp. p. 3266; Gaz. vol. 161; p. 579.
Compasses. P. Rögner. No. 954,885; Apr. 12; Sp. p. 2614; Gaz. vol. 153; p. 444.
Compasses. J. Diracca. No. 962,702; June 28; Sp. p. 5215; Gaz. vol. 155; p. 910.
Compasses. H. C. Ford. No. 964,962; July 19; Sp. p. 4269; Gaz. vol. 156; p. 713.
Compasses and dividers. C. S. Evans. No. 953,026; Mar. 29; Sp. p. 5248; Gaz. vol. 152; p. 968.
Compensator. E. Thomson. No. 960,440; June 7; Sp. p. 403; Gaz. vol. 155; p. 68.
Compiling-machine. W. T. Sullivan. No. 959,644; May 31; Sp. p. 6949; Gaz. vol. 154; p. 1184.
Composing and distributing machine, Typographical. J. G. Holbourns and H. A. Longhurst. No. 951,948; Mar. 15; Sp. p. 3026; Gaz. vol. 152; p. 548.
Composing-machine, Controller. T. Lanston. No. 952,621; Mar. 22; Sp. p. 4395; Gaz. vol. 152; p. 803.
Composing-machine, Pattern or record-strip. F. H. Pierpont. No. 952,632; Mar. 22; Sp. p. 4426; Gaz. vol. 152; p. 807.
Composing-machine, Typographical. H. Pearce and J. E. Billington. No. 954,459; Apr. 12; Sp. p. 1620; Gaz. vol. 153; p. 295.
Composing-machines, Apparatus for effecting separation of matrices and space-bars in typographical. C. Muehleisen. No. 973,454; Oct. 18; Sp. p. 4272; Gaz. vol. 159; p. 728.
Composing-machines, Font-selecting mechanism for monoline. W. E. Bertram. No. 978,108; Dec. 6; Sp. p. 1471; Gaz. vol. 161; p. 237.
Composing-machines, Justifying mechanism for pattern-controlled. J. S. Bancroft and M. C. Indahl. No. 952,597; Mar. 22; Sp. p. 4340; Gaz. vol. 152; p. 794.
Composing-machines, Magazine of typographical. J. G. Holbourns and W. Fletcher. No. 951,245; Mar. 8; Sp. p. 1571; Gaz. vol. 152; p. 282.
Composing-machines, Matrix-delivery mechanism for monoline. W. E. Bertram. No. 975,503; Nov. 15; Sp. p. 3176; Gaz. vol. 160; p. 541.
Composing-machines, Means for assembling multiple-face matrices in typographical. C. Muehleisen and C. A. Albrecht. No. 966,228; Aug. 2; Sp. p. 825; Gaz. vol. 157; p. 131.
Composing-machines, Means for leveling matrices in typographical. C. Muehleisen. No. 952,271; Mar. 15; Sp. p. 3643; Gaz. vol. 152; p. 654.
Composing-machines, Quadding apparatus of typographical. C. Woodroffe, H. Pearce, and J. E. Billington. No. 945,892; Jan. 11; Sp. p. 1972; Gaz. vol. 150; p. 329.
Composing-machines, Units-measuring mechanism for. F. H. Pierpont. No. 952,631; Mar. 22; Sp. p. 4422; Gaz. vol. 152; p. 807.
Composing-stick. W. U. Colthar and F. A. Pfeifer. No. 950,660; Mar. 1; Sp. p. 423; Gaz. vol. 152; p. 69.
Composing-stick. S. A. Neidich. No. 955,534; Apr. 19; Sp. p. 3955; Gaz. vol. 153; p. 694.
Composite board. L. A. Deuther. No. 961,432; June 14; Sp. p. 2449; Gaz. vol. 155; p. 431.
Composite fabric. E. Strauss and W. B. Erskine. No. 952,849; Mar. 22; Sp. p. 4895; Gaz. vol. 152; p. 881.
Composite roller. C. F. Hargrave. No. 979,666; Dec. 27; Sp. p. 4852; Gaz. vol. 161; p. 851.
Composite system. O. T. Lademan. No. 949,188; Feb. 15; Sp. p. 2959; Gaz. vol. 151; p. 524.

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Composition. W. R. Humphreys. No. 952,906; Mar. 22; Sp. p. 5002; Gaz. vol. 152; p. 899.
Composition of matter. R. D. Powers. No. 945,800; Jan. 11; Sp. p. 1760; Gaz. vol. 150; p. 295.
Composition of matter. F. A. Crandall. No. 949,061; Feb. 15; Sp. p 2703; Gaz. vol. 151; p. 481.
Composition of matter. A. Vastag and S. Horvath. No. 952,389; Mar. 15; Sp. p. 3877; Gaz. vol. 152; p. 694.
Composition of matter. R. R. Snowden. No. 952,762; Mar. 22; Sp. p. 4707; Gaz. vol. 152; p. 850.
Composition of matter. J. A. Schmitt and C. R. Bell. No. 955,362; Apr. 19; Sp. p. 3601; Gaz. vol. 153; p. 636.
Composition of matter. W. J. Thorold. No. 959,650; May 31; Sp. p. 6969; Gaz. vol. 154; p. 1186.
Composition of matter. W. G. F. Siegmann. No. 960,422; June 7; Sp. p. 374; Gaz. vol. 155; p. 63.
Composition of matter. E. E. Blackman. No. 972,801; Oct. 18; Sp. p. 2799; Gaz. vol. 159; p. 500.
Composition of matter. A. Mills. No. 979,021; Dec. 20; Sp. p. 3463; Gaz. vol. 161; p. 607.
Composition of matter and making same. W. A. Phillips. No. 959,068; May 24; Sp. p. 5772; Gaz. vol. 154; p. 967.
Compound. W. L. O'Bryant. No. 973,549; Oct. 25; Sp. p. 4479; Gaz. vol. 159; p. 783.
Compound engine. C. Baden. No. 961,094; June 14; Sp. p. 1732; Gaz. vol. 155; p. 314.
Compound engine. C. Benson. No. 969,027; Aug. 30; Sp. p. 6781; Gaz. vol. 157; p. 1182.
Compound or emulsion and production of same. J. Stockhausen. No. 966,136; Aug. 2; Sp. p. 605; Gaz. vol. 157; p. 100.
Compounds of the active substance of suprarenal glands, and said compounds, Making. B. Reuter. No. 970,112; Sept. 13; Sp. p. 2080; Gaz. vol. 158; p. 353.
Compressed-air engine. C. B. Hodges. No. 953,336; Mar. 29; Sp. p. 5926; Gaz. vol. 152; p. 1070.
Compressible tube. T. C. Booth. No. 972,095; Oct. 4; Sp. p. 1255; Gaz. vol. 159; p. 213.
Compressing-machine. T. Lund. No. 959,869; May 31; Sp. p. 7444; Gaz. vol. 154; p. 1259.
Compressing-machine. W. M. Gentle. No. 959,928; May 31; Sp. p. 7572; Gaz. vol. 154; p. 1280.
Compression-regulator. J. B. Brown. No. 949,969; Feb. 22; Sp. p. 4608; Gaz. vol. 151; p. 823.
Compression stop and waste. A. C. Schuermann. No. 951,660; Mar. 8; Sp. p. 2434; Gaz. vol. 152; p. 421.
Compression stop and waste. A. C. Schuermann. (Reissue.) No. 13,135; July 19; Sp. p. 4637; Gaz. vol. 156; p. 774.
Compressor. J. D. Mayhew. No. 955,822; Apr. 19; Sp. p. 4592; Gaz. vol. 153; p. 793.
Compressor. G. D. Warren. No. 957,129; May 3; Sp. p. 1339; Gaz. vol. 154; p. 214.
Compressor. H. D. Shelton. No. 962,592; June 28; Sp. p. 4986; Gaz. vol. 155; p. 872.
Compressor. J. T. Love. No. 964,987; July 19; Sp. p. 4318; Gaz. vol. 156; p. 721.
Compressor. J. Levey. No. 977,662; Dec. 6; Sp. p. 547; Gaz. vol. 161; p. 83.
Compressor. G. H. Reynolds. No. 978,937; Dec. 20; Sp. p. 3256; Gaz. vol. 161; p. 577.
Compressor and vacuum-pump valve. C. Wainwright. No. 965,052; July 19; Sp. p. 4455; Gaz. vol. 156; p. 742.
Compressor or other power-absorbing machine, High-pressure. A. C. E. Rateau. No. 961,317; June 14; Sp. p. 2216; Gaz. vol. 155; p. 393.
Compressor or the like, Rotary. W. von Pittler. No. 974,913; Nov. 8; Sp. p. 1889; Gaz. vol. 160; p. 312.
Comptometer-hand. S. B. Lamkin. No. 957,221; May 10; Sp. p. 1567; Gaz. vol. 154; p. 276.
Computing and recording machine. W. H. McFarland. No. 973,683; Oct. 25; Sp. p. 4773; Gaz. vol. 159; p. 830.
Computing device. I. L. Davenport. No. 953,321; Mar. 29; Sp. p. 5888; Gaz. vol. 152; p. 1063.
Computing device. W. J. Rainey. No. 956,998; May 3; Sp. p. 1086; Gaz. vol. 154; p. 170.
Computing device. S. M. Boling. No. 973,403; Oct. 18; Sp. p. 4174; Gaz. vol. 159; p. 711.
Computing device and cash-drawer, Automatic. W. Sherwood. No. 978,950; Dec. 20; Sp. p. 3284; Gaz. vol. 161; p. 582.
Computing instrument, Fractions-. D. M. Park. No. 978,637; Dec. 13; Sp. p. 2658; Gaz. vol. 161; p. 452.
Computing-machine. A. Z. See. No. 948,077; Feb. 1; Sp. p. 622; Gaz. vol. 151; p. 101.
Computing-machine. W. P. Quentell. No. 950,114; Feb. 22; Sp. p. 4957; Gaz. vol. 151; p. 873.
Computing-machine. J. M. Daly. No. 956,687; May 3; Sp. p. 391; Gaz. vol. 154; p. 65.
Computing-machine. J. M. Daly. No. 956,689; May 3; Sp. p. 410; Gaz. vol. 154; p. 66.
Computing-machine. J. M. Daly. No. 964,495; July 19; Sp. p. 3163; Gaz. vol. 156; p. 550.
Computing-machine. W. P. Shattuck. No. 966,248; Aug. 2; Sp. p. 865; Gaz. vol. 157; p. 138.
Computing-machine. F. F. Main. No. 976,086; Nov. 15; Sp. p. 4360; Gaz. vol. 160; p. 741.
Computing-machine. F. F. Main. No. 976,087; Nov. 15; Sp. p. 4364; Gaz. vol. 160; p. 741.
Computing-machines and the like, Ribbon-feed mechanism for. D. W. Shiek. No. 963,819; July 12; Sp. p. 1767; Gaz. vol. 156; p. 293.
Computing or adding machine. F. F. Main. No. 953,276; Mar. 29; Sp. p. 5806; Gaz. vol. 152; p. 1049.
Concave, Adjustable. F. O. Blixt. No. 962,192; June 21; Sp. p. 4105; Gaz. vol. 155; p. 712.
Conceals, Machine for filling. R. E. Smith. No. 953,353; Mar. 29; Sp. p. 5975; Gaz. vol. 152; p. 1075.
Concentrating apparatus. E. S. McKinlay. No. 951,964; Mar. 15; Sp. p. 3060; Gaz. vol. 152; p. 553.
Concentrating apparatus. J. Matter. No. 976,893; Nov. 29; Sp. p. 6191; Gaz. vol. 160; p. 1066.
Concentrating comminuted material. H. M. Sutton, W. L. and E. G. Steele. No. 979,046; Dec. 20; Sp. p. 3515; Gaz. vol. 161; p. 615.
Concentrating-table. A. Ten Winkel. No. 967,859; Aug. 16; Sp. p. 4279; Gaz. vol. 157; p. 732.
Concentrating-table. A. R. Wilfley. No. 970,283; Sept. 13; Sp. p. 2445; Gaz. vol. 158; p. 412.
Concentrator: *See* Ore-concentrator.
Concentrator. H. L. Black. No. 956,034; Apr. 26; Sp. p. 5069; Gaz. vol. 153; p. 896.
Concentrator. P. McFarlane. No. 956,777; May 3; Sp. p. 594; Gaz. vol. 154; p. 95.
Concentrator and amalgamator. R. L. Royse. No. 979,706; Dec. 27; Sp. p. 4930; Gaz. vol. 161; p. 864.
Concentrator or separator. G. W. Dennis. No. 971,025; Sept. 27; Sp. p. 4007; Gaz. vol. 158; p. 712.
Concentrator, Reciprocating multiple-compartment. G. A. Fowler. No. 955,329; Apr. 19; Sp. p. 3529; Gaz. vol. 153; p. 624.
Concrete and like walls in the earth, Constructing. G. W. Jackson. No. 960,941; June 7; Sp. p. 1398; Gaz. vol. 155; p. 235.
Concrete articles, Manufacturing. J. Rogers. No. 945,607; Jan. 4; Sp. p. 1283; Gaz. vol. 150; p. 200.
Concrete, Bar spacer and supporter for reinforced. F. H. Schroeder, Jr. No. 976,503; Nov. 22; Sp. p. 5353; Gaz. vol. 160; p. 908.
Concrete beam, Reinforced-. G. Dujardin. No. 953,024; Mar. 29; Sp. p. 5244; Gaz. vol. 152; p. 967.
Concrete block. C. A. Buskirk. No. 952,305; Mar. 15; Sp. p. 3720; Gaz. vol. 152; p. 666.
Concrete block and wall construction. J. J. Sleeper. No. 959,629; May 31; Sp. p. 6924; Gaz. vol. 154; p. 1179.
Concrete-block machine. R. B. Cole. No. 968,741; Aug. 30; Sp. p. 6213; Gaz. vol. 157; p. 1086.
Concrete-block machine. J. S. Minton. No. 973,288; Oct. 18; Sp. p. 3916; Gaz. vol. 159; p. 670.
Concrete-block-making machine. J. A. Adams and C. W. Butker. No. 954,367; Apr. 5; Sp. p. 1421; Gaz. vol. 153; p. 236.
Concrete-block-making machine. F. I. Bennett. No. 968,111; Aug. 23; Sp. p. 4840; Gaz. vol. 157; p. 840.
Concrete-block-making machinery. S. Allen. No. 975,104; Nov. 8; Sp. p. 2318; Gaz. vol. 160; p. 379.
Concrete-block mold. C. W. Getman. No. 952,702; Mar. 22; Sp. p. 4577; Gaz. vol. 152; p. 830.
Concrete-block-molding machine. J. W. Bragstad. No. 951,723; Mar. 8; Sp. p. 2530; Gaz. vol. 152; p. 440.
Concrete-block press. C. F. Hartman and S. R. Cooke. No. 976,649; Nov. 22; Sp. p. 5669; Gaz. vol. 160; p. 958.
Concrete bridge, Reinforced-. J. E. Mandeville. No. 954,750; Apr. 12; Sp. p. 2288; Gaz. vol. 153; p. 397.
Concrete building. W. S. Laney. No. 955,597; Apr. 19; Sp. p. 4113; Gaz. vol. 153; p. 715.
Concrete building constructions, Form for. G. F. Fisher. No. 957,414; May 10; Sp. p. 1974; Gaz. vol. 154; p. 342.
Concrete burial-caskets, Apparatus for molding. L. V. Rathbun. No. 969,299; Sept. 6; Sp. p. 309; Gaz. vol. 158; p. 51.
Concrete car structure, Reinforced-. G. M. Graham. No. 974,659; Nov. 1; Sp. p. 1320; Gaz. vol. 160; p. 205.
Concrete cattle-guard. C. P. Murray. No. 949,941; Feb. 22; Sp. p. 4555; Gaz. vol. 151; p. 813.
Concrete chimney. I. B. Spaulding. No. 963,402; July 5; Sp. p. 888; Gaz. vol. 156; p. 130.
Concrete cisterns, sewers, and the like, Form for. G. G. F. Boswell. No. 952,066; Mar. 15; Sp. p. 3255; Gaz. vol. 152; p. 586.
Concrete column, girder, and beam, Reinforced-. J. A. Jones. No. 976,182; Nov. 22; Sp. p. 4620; Gaz. vol. 160; p. 795.
Concrete-column mold. A. L. Thompson. No. 969,503; Sept. 6; Sp. p. 747; Gaz. vol. 158; p. 118.
Concrete column, Reinforced-. H. H. Wainwright and H. A. Miner. No. 966,274; Aug. 2; Sp. p. 910; Gaz. vol. 157; p. 146.
Concrete, Composition of matter for. H. D. Phillips. No. 954,692; Apr. 12; Sp. p. 2137; Gaz. vol. 153; p. 374.
Concrete compositions, Manufacturing. J. W. Adams. No. 949,924; Feb. 22; Sp. p. 4522; Gaz. vol. 151; p. 807.
Concrete conduit construction, Form for. F. S. Graef. No. 963,544; July 5; Sp. p. 1166; Gaz. vol. 156; p. 178.
Concrete construction. W. J. Edwards. No. 947,492; Jan. 25; Sp. p. 5572; Gaz. vol. 150; p. 925.
Concrete construction. J. E. Conzelman. No. 947,769; Jan. 25; Sp. p. 6105; Gaz. vol. 150; p. 1018.
Concrete construction. F. Melber. No. 954,983; Apr. 12; Sp. p. 2814; Gaz. vol. 153; p. 477.

Concrete construction. F. B. Gilbreth. No. 960,305; June 7; Sp. p. 129; Gaz. vol. 155; p. 25.
Concrete construction. J. E. Conzelman. No. 961,210; June 14; Sp. p. 1968; Gaz. vol. 155; p. 355.
Concrete construction. J. E. Conzelman. No. 961,211; June 14; Sp. p. 1969; Gaz. vol. 155; p. 356.
Concrete construction. A. J. Meier. No. 961,630; June 14; Sp. p. 2873; Gaz. vol. 155; p. 497.
Concrete construction. J. E. Conzelman. No. 961,682; June 14; Sp. p. 2975; Gaz. vol. 155; p. 515.
Concrete construction. J. E. Conzelman. No. 961,683; June 14; Sp. p. 2976; Gaz. vol. 155; p. 515.
Concrete construction. J. E. Conzelman. No. 962,078; June 21; Sp. p. 3834; Gaz. vol. 155; p. 672.
Concrete construction. J. E. Conzelman. No. 962,699; June 28; Sp. p. 5210; Gaz. vol. 155; p. 909.
Concrete construction. P. Aylett. No. 965,357; July 26; Sp. p. 5096; Gaz. vol. 156; p. 875.
Concrete construction. J. E. Conzelman. No. 971,665; Oct. 4; Sp. p. 319; Gaz. vol. 159; p. 57.
Concrete construction. R. C. Hansell. No. 973,501; Oct. 25; Sp. p. 4386; Gaz. vol. 159; p. 767.
Concrete construction. D. A. Reynolds. No. 978,647; Dec. 13; Sp. p. 2680; Gaz. vol. 161; p. 456.
Concrete construction, Metallic reinforce for. D. A. Wedmore. No. 972,961; Oct. 18; Sp. p. 3208; Gaz. vol. 159; p. 558.
Concrete construction, Plant for. T. Emtman. No. 948,723; Feb. 8; Sp. p. 2003; Gaz. vol. 151; p. 343.
Concrete construction, Reinforced. C. D. Watson and A. W. Bull. No. 946,890; Jan. 18; Sp. p. 4233; Gaz. vol. 150; p. 697.
Concrete construction, Reinforced. P. W. Cook. No. 949,262; Feb. 15; Sp. p. 3108; Gaz. vol. 151; p. 548.
Concrete construction, Reinforced. C. W. Peckham. No. 950,401; Feb. 22; Sp. p. 5532; Gaz. vol. 151; p. 969.
Concrete construction, Reinforced. S. Burrowes. No. 953,368; Mar. 29; Sp. p. 6010; Gaz. vol. 152; p. 1080.
Concrete construction, Reinforced. E. P. Wells. No. 955,236; Apr. 19; Sp. p. 3329; Gaz. vol. 153; p. 594.
Concrete construction, Reinforced. J. H. Knight. No. 961,619; June 14; Sp. p. 2853; Gaz. vol. 155; p. 493.
Concrete construction, Reinforced. J. Gilligan. No. 979,285; Dec. 20; Sp. p. 4067; Gaz. vol. 161; p. 699.
Concrete construction, Reinforced. F. S. Robinson. No. 979,564; Dec. 27; Sp. p. 4643; Gaz. vol. 161; p. 815.
Concrete construction, Reinforcement for. J. O. Ellinger. No. 952,891; Mar. 22; Sp. p. 4969; Gaz. vol. 152; p. 894.
Concrete construction, Reinforcing-frame for. E. Cannes. No. 963,685; July 5; Sp. p. 1436; Gaz. vol. 156; p. 226.
Concrete construction, Sectional form for. G. H. Sherwood. No. 965,026; July 19; Sp. p. 4391; Gaz. vol. 156; p. 733.
Concrete construction, Sectional mold for. F. S. Farrar. No. 962,560; June 28; Sp. p. 4921; Gaz. vol. 155; p. 862.
Concrete construction, Structural-metal shape for reinforced. P. Stragiotti. No. 960,054; May 31; Sp. p. 7892; Gaz. vol. 154; p. 1325.
Concrete-construction system. P. Aylett. No. 965,358; July 26; Sp. p. 5099; Gaz. vol. 156; p. 875.
Concrete construction, System of centering for reinforced. H. Brussel. No. 954,165; Apr. 5; Sp. p. 995; Gaz. vol. 153; p. 168.
Concrete construction, Tension member for. T. W. Jenks. No. 952,259; Mar. 15; Sp. p. 3624; Gaz. vol. 152; p. 651.
Concrete construction, Trussed bar for reinforced. P. Stragiotti. No. 954,900; Apr. 12; Sp. p. 2650; Gaz. vol. 153; p. 449.
Concrete construction, Unit reinforcing-frame for. E. L. Brown, Jr. No. 965,070; July 19; Sp. p. 4491; Gaz. vol. 156; p. 747.
Concrete construction, Waterproof. F. P. Lawrence. No. 954,814; Apr. 12; Sp. p. 2444; Gaz. vol. 153; p. 418.
Concrete culverts, cisterns, and the like, Adjustable frame for building. W. Prilliman. No. 954,696; Apr. 12; Sp. p. 2142; Gaz. vol. 153; p. 375.
Concrete culverts, Form for making continuous. W. P. Nichols. No. 966,044; Aug. 2; Sp. p. 437; Gaz. vol. 157; p. 70.
Concrete curbs or gutters, Form for laying. M. S. Hotchkiss. No. 955,801; Apr. 19; Sp. p. 4545; Gaz. vol. 153; p. 785.
Concrete dams, walls, bridges, conduits, sewers, &c., Making. F. S. Lamson. No. 963,159; July 5; Sp. p. 334; Gaz. vol. 156; p. 47.
Concrete-distributing device. A. L. Smith. No. 948,746; Feb. 8; Sp. p. 2048; Gaz. vol. 151; p. 350.
Concrete fence. E. and C. Wagler. No. 948,834; Feb. 8; Sp. p. 2239; Gaz. vol. 151; p. 379.
Concrete fence-post. A. O. Cunningham. No. 952,071; Mar. 15; Sp. p. 3263; Gaz. vol. 152; p. 588.
Concrete fence, Reinforced-. C. Mitchell. No. 955,528; Apr. 19; Sp. p. 3947; Gaz. vol. 153; p. 693.
Concrete floor construction. F. W. Stevens. No. 947,514; Jan. 25; Sp. p. 5620; Gaz. vol. 150; p. 933.
Concrete floor construction. W. Raster. No. 966,120; Aug. 2; Sp. p. 580; Gaz. vol. 157; p. 95.
Concrete floor construction, Bonding-tie for. A. C. Schumann. No. 977,753; Dec. 6; Sp. p. 730; Gaz. vol. 161; p. 115.
Concrete floor construction, Reinforced-. L. Patterson. No. 948,824; Feb. 8; Sp. p. 2220; Gaz. vol. 151; p. 376.
Concrete floor construction, Reinforced-. J. M. Jones. No. 953,091; Mar. 29; Sp. p. 5404; Gaz. vol. 152; p. 990.
Concrete floor, Reinforced-. G. M. Graham. No. 974,658; Nov. 1; Sp. p. 1319; Gaz. vol. 160; p. 204.
Concrete floor-slab, Reinforced-. J. A. Jones. No. 976,183; Nov. 22; Sp. p. 4622; Gaz. vol. 160; p. 796.
Concrete, Floor-sleeper anchoring and spacing device for. F. Wright and J. Walmsley. No. 979,628; Dec. 27; Sp. p. 4775; Gaz. vol. 161; p. 839.
Concrete floors, &c., Metal reinforcement for metal-reinforced. G. J. Schade. No. 946,987; Jan. 18; Sp. p. 4426; Gaz. vol. 150; p. 729.
Concrete-form. J. H. Young. No. 965,979; Aug. 2; Sp. p. 286; Gaz. vol. 157; p. 47.
Concrete-form, Adjustable. R. B. Higgins. No. 975,241; Nov. 8; Sp. p. 2638; Gaz. vol. 160; p. 426.
Concrete-form, Adjustable. R. B. Higgins and H. Albers. No. 975,242; Nov. 8; Sp. p. 2641; Gaz. vol. 160; p. 426.
Concrete, Form for. A. Lanquist. No. 951,477; Mar. 8; Sp. p. 2069; Gaz. vol. 152; p. 359.
Concrete-forms, Support for. C. M. Markham. No. 960,657; June 7; Sp. p. 852; Gaz. vol. 155; p. 140.
Concrete headstone. W. R. Thomas. No. 955,720; Apr. 19; Sp. p. 4397; Gaz. vol. 153; p. 758.
Concrete jacket for piling, Reinforced-. A. Briffod. No. 961,837; June 21; Sp. p. 3312; Gaz. vol. 155; p. 590.
Concrete-mixer. F. Yeager. No. 952,555; Mar. 22; Sp. p. 4250; Gaz. vol. 152; p. 779.
Concrete-mixer. G. Carlson. No. 968,739; Aug. 30; Sp. p. 6210; Gaz. vol. 157; p. 1085.
Concrete-mixer. J. Meggers. No. 974,688; Nov. 1; Sp. p. 1385; Gaz. vol. 160; p. 215.
Concrete-mixer feeder. F. G. Olp. No. 974,588; Nov. 1; Sp. p. 1173; Gaz. vol. 160; p. 179.
Concrete-mixers, Feed-regulator for. F. V. McDonald. No. 978,320; Dec. 13; Sp. p. 1958; Gaz. vol 161; p. 342.
Concrete-mixing machine. H. C. Fitzke. No. 945,508; Jan. 4; Sp. p. 1083; Gaz. vol. 150; p. 168.
Concrete-mixing machine. C. F. Lancaster. No. 953,961; Apr. 5; Sp. p. 539; Gaz. vol. 153; p. 98.
Concrete-mixing machine. A. K. Goodmundson and R. F. Smith. No. 959,512; May 31; Sp. p. 6694; Gaz. vol. 154; p. 1139.
Concrete-mixing machine. L. W. Cargill. No. 970,419; Sept. 13; Sp. p. 2701; Gaz. vol. 158; p. 456.
Concrete-mixing machine. H. J. J. Alexander. No. 970,870; Sept. 20; Sp. p. 3711; Gaz. vol. 158; p. 634.
Concrete-mixing machine. J. Müller. No. 973,543; Oct. 25; Sp. p. 4471; Gaz. vol. 159; p. 781.
Concrete-mold. C. R. Jackman. No. 958,402; May 17; Sp. p. 4373; Gaz. vol. 154; p. 714.
Concrete-mold. W. T. Harris, Sr. No. 960,909; June 7; Sp. p. 1341; Gaz. vol. 155; p. 225.
Concrete-mold. R. B. Tufts. No. 977,763; Dec. 6; Sp. p. 760; Gaz. vol. 161; p. 118.
Concrete-mold. J. Carlen. No. 978,845; Dec. 20; Sp. p. 3055; Gaz. vol. 161; p. 544.
Concrete-mold, Adjustable. H. Pocock. No. 955,282; Apr. 19; Sp. p. 3418; Gaz. vol. 153; p. 608.
Concrete-molding machine. J. C. Dunton. No. 949,886; Feb. 22; Sp. p. 4441; Gaz. vol. 151; p. 794.
Concrete-paving machine. R. Deeds. No. 952,882; Mar. 22; Sp. p. 4950; Gaz. vol. 152; p. 891.
Concrete pile and making the same. L. E. Welsh. No. 950,360; Feb. 22; Sp. p. 5452; Gaz. vol. 151; p. 956.
Concrete pile, Metal-reinforced. E. Mohun. No. 958,967; May 24; Sp. p. 5551; Gaz. vol. 154; p. 933.
Concrete pile or column, Reinforced-. R. A. Cummings. No. 975,514; Nov. 15; Sp. p. 3203; Gaz. vol. 160; p. 545.
Concrete pile, Reinforced-. E. D. McDonald. No. 979,529; Dec. 27; Sp. p. 4551; Gaz. vol. 161; p. 803.
Concrete piles, columns, and the like, Machine for making reinforced-. A. C. Chenoweth. No. 968,125; Aug. 23; Sp. p. 4865; Gaz. vol. 157; p. 844.
Concrete piling, Method of and sectional core for making. J. F. D. Withrow. No. 977,356; Nov. 29; Sp. p. 7210; Gaz. vol. 160; p. 1227.
Concrete pipe. F. A. Stockley. No. 958,043; May 17; Sp. p. 3451; Gaz. vol. 154; p. 590.
Concrete pipe, Apparatus for making and laying continuous. J. L. Wiggins. No. 952,488; Mar. 22; Sp. p. 4104; Gaz. vol. 152; p. 756.
Concrete pipe, Machine for making reinforced-. H. R. McMahon. No. 958,156; May 17; Sp. p. 3724; Gaz. vol. 154; p. 629.
Concrete pipe, Reinforced-. J. M. Phelan. No. 967,427; Aug. 16; Sp. p. 3412; Gaz. vol. 157; p. 588.
Concrete pipes, Machine for making. W. A. Skelton. No. 956,200; Apr. 26; Sp. p. 5456; Gaz. vol. 153; p. 955.
Concrete pit for wagon-scales, Reinforced-. G. Jones. No. 971,758; Oct. 4; Sp. p. 523; Gaz. vol. 159; p. 91.
Concrete plant. E. L. Ransome. No. 947,599; Jan. 25; Sp. p. 5790; Gaz vol. 150; p. 962.
Concrete post. G. C. Hale. No. 962,340; June 21; Sp. p. 4417; Gaz. vol. 155; p. 761.
Concrete post. D. Eskew. No. 965,700; July 26; Sp. p. 5851; Gaz. vol. 156; p. 994.
Concrete post. W. W. Walther. No. 967,691; Aug. 16; Sp. p. 3933; Gaz. vol. 157; p. 675.

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Concrete post for clothes-lines. T. H. Laurent. No. 971,904; Oct. 4; Sp. p. 844; Gaz. vol. 159; p. 145.
Concrete post or pole. O. Dougherty. No. 946,343; Jan. 11; Sp. p. 2927; Gaz. vol. 150; p. 486.
Concrete railway cross-tie, Reinforced-. L. J. Jackson. No. 961,697; June 14; Sp. p. 2995; Gaz. vol. 155; p. 519.
Concrete railway-tie. W. H. Pruyn, Jr. No. 955,547; Apr. 19; Sp. p. 3983; Gaz. vol. 153; p. 699.
Concrete railway-tie, Reinforced-. H. D. and W. B. Emmons. No. 970,316; Sept. 13; Sp. p. 2508; Gaz. vol. 158; p. 423.
Concrete receptacles, Adjustable frame for making. H. M. Amos. No. 969,436; Sept. 6; Sp. p. 606; Gaz. vol. 158; p. 96.
Concrete, Reinforced. R. McLaughlin. No. 954,128; Apr. 5; Sp. p. 893; Gaz. vol. 153; p. 155.
Concrete, Reinforced. W. F. Scott. No. 956,194; Apr. 26; Sp. p. 5444; Gaz. vol. 153; p. 953.
Concrete, Reinforced. P. B. Noyes. No. 957,244; May 10; Sp. p. 1609; Gaz. vol. 154; p. 284.
Concrete, Reinforced. G. Allen. No. 966,291; Aug. 2; Sp. p. 947; Gaz. vol. 157; p. 150.
Concrete reinforcement. H. E. White. No. 947,746; Jan. 25; Sp. p. 6059; Gaz. vol. 150; p. 1011.
Concrete reinforcement. R. S. Allyn. No. 962,488; June 28; Sp. p. 4750; Gaz. vol. 155; p. 837.
Concrete reinforcement. G. V. Rhines. No. 968,982; Aug. 30; Sp. p. 6693; Gaz. vol. 157; p. 1165.
Concrete reinforcing structure. E. E. Nickson. No. 965,729; July 26; Sp. p. 5920; Gaz. vol. 156; p. 1004.
Concrete reinforcing unit. S. B. Russell. No. 951,150; Mar. 8; Sp. p. 1394; Gaz. vol. 152; p. 253.
Concrete, Removable supporting-form for. J. B. Blaw. No. 972,802; Oct. 18; Sp. p. 2800; Gaz. vol. 159; p. 500.
Concrete-retaining wall. J. B. Blaw. No. 972,803; Oct. 18; Sp. p. 2802; Gaz. vol. 159; p. 501.
Concrete roadway, Oil-. E. M. Chadbourne. No. 965,562; July 26; Sp. p. 5563; Gaz. vol. 156; p. 947.
Concrete roadway, Oiled. E. M. Chadbourne. No. 956,940; May 3; Sp. p. 946; Gaz. vol. 154; p. 151.
Concrete roofing-tiles, Device for making. F. C. Scheiber. No. 969,410; Sept. 6; Sp. p. 550; Gaz. vol. 158; p. 88.
Concrete sectional sea-wall, Reinforced-. H. L. Smith. No. 952,645; Mar. 22; Sp. p. 4453; Gaz. vol. 152; p. 811.
Concrete sewer. G. Dujardin. No. 950,149; Feb. 22; Sp. p. 5026; Gaz. vol. 151; p. 884.
Concrete, Sheeting-pile of reinforced. S. L. Ravier. No. 962,784; June 28; Sp. p. 5382; Gaz. vol. 155; p. 940.
Concrete-shingle-molding machine. F. Latulip. No. 970,243; Sept. 13; Sp. p. 2366; Gaz. vol. 158; p. 399.
Concrete-sidewalk form. W. Ramey and L. Chilcote. No. 955,474; Apr. 19; Sp. p. 3833; Gaz. vol. 153; p. 674.
Concrete slab construction. J. R. Cahill. No. 973,165; Oct. 18; Sp. p. 3664; Gaz. vol. 159; p. 629.
Concrete slab, Reinforced-. O. Matti. No. 968,865; Aug. 30; Sp. p. 6460; Gaz. vol. 157; p. 1125.
Concrete slabs, beams, pipes, and other concrete articles, Manufacturing. P. B. Jagger. No. 967,196; Aug. 16; Sp. p. 2942; Gaz. vol. 157; p. 508.
Concrete sleeper, Reinforced-. H. Gröger. No. 957,328; May 10; Sp. p. 1802; Gaz. vol. 154; p. 314.
Concrete, Steel bar for reinforcement of slabs, beams, or similar constructions of. F. Selmer. No. 959,808; May 31; Sp. p. 7311; Gaz. vol. 154; p. 1238.
Concrete steps, Protector-plate for edges of. J. G. Braun. No. 960,489; June 7; Sp. p. 503; Gaz. vol. 155; p. 84.
Concrete structural work, Form for. M. S. Hotchkiss. No. 955,800; Apr. 19; Sp. p. 4543; Gaz. vol. 153; p. 785.
Concrete structure. T. Hall. No. 963,368; July 5; Sp. p. 809; Gaz. vol. 156; p. 119.
Concrete structure, Reinforced. E. N. Hunting. No. 947,750; Jan. 25; Sp. p. 6066; Gaz. vol. 150; p. 1012.
Concrete structure, Reinforced. J. Gilmore. No. 963,218; July 5; Sp. p. 493; Gaz. vol. 156; p. 68.
Concrete structure, Reinforced. W. P. Cowles. No. 969,039; Aug. 30; Sp. p. 6802; Gaz. vol. 157; p. 1185.
Concrete structure, Reinforced. G. M. Graham. No. 974,656; Nov. 1; Sp. p. 1316; Gaz. vol. 160; p. 204.
Concrete structure, Reinforced. H. E. White and W. H. Ham. No. 975,307; Nov. 8; Sp. p. 2778; Gaz. vol. 160; p. 449.
Concrete-structure-reinforcing element. J. A. Ettler. No. 967,505; Aug. 16; Sp. p. 3580; Gaz. vol. 157; p. 614.
Concrete structures, Anchoring device for use in connection with. A. P. Lohmann. No. 950,771; Mar. 1; Sp. p. 669; Gaz. vol. 152; p. 107.
Concrete structures, Apparatus for casting. H. French. No. 975,943; Nov. 15; Sp. p. 4095; Gaz. vol. 160; p. 691.
Concrete structures, Apparatus for erecting. P. Weber. No. 976,960; Nov. 29; Sp. p. 6365; Gaz. vol. 160; p. 1089.
Concrete structures, Apparatus for forming. A. S. Merriett. No. 967,408; Aug. 16; Sp. p. 3376; Gaz. vol. 157; p. 582.
Concrete structures, Device for fastening to. H. D. and W. B. Emmons. No. 956,059; Apr. 26; Sp. p. 5136; Gaz. vol. 153; p. 905.
Concrete structures, Erecting-mold for. C. Weber. No. 968,905; Aug. 30; Sp. p. 6550; Gaz. vol. 157; p. 1140.
Concrete structures, Form for building. D. M. Duller. No. 970,998; Sept. 20; Sp. p. 3948; Gaz. vol. 158; p. 675.
Concrete structures, Making stone-. C. F. Morrill. No. 963,734; July 5; Sp. p. 1566; Gaz. vol. 156; p. 242.
Concrete structures, Means for building. W. W. Barnum. No. 946,991; Jan. 18; Sp. p. 4435; Gaz. vol. 150; p. 730.
Concrete structures, Means for erecting. J. Taylor. No. 953,722; Apr. 5; Sp. p. 78; Gaz. vol. 153; p. 17.
Concrete structures, Reinforcement for. C. Brossman. No. 954,925; Apr. 12; Sp. p. 2704; Gaz. vol. 153; p. 457.
Concrete structures, Reinforcement for. R. E. Newton. No. 960,382; June 7; Sp. p. 295; Gaz. vol. 155; p. 49.
Concrete structures, Reinforcement for. G. A. Brayton and E. C. Roberts. No. 971,353; Sept. 27; Sp. p. 4692; Gaz. vol. 158; p. 820.
Concrete structures, Reinforcing-bar for. A. C. Kuester. No. 947,199; Jan. 18; Sp. p. 4828; Gaz. vol. 150; p. 796.
Concrete structures, Reinforcing-frame for. G. M. Graham. No. 974,657; Nov. 1; Sp. p. 1318; Gaz. vol. 160; p. 204.
Concrete, Support for. J. P. Hallahan. No. 959,217; May 24; Sp. p. 6070; Gaz. vol. 154; p. 1015.
Concrete tank, silo, cistern, and the like molding machine. H. G. Moats. No. 947,927; Feb. 1; Sp. p. 304; Gaz. vol. 151; p. 51.
Concrete tie. W. F. Bradley. No. 976,341; Nov. 22; Sp. p. 5007; Gaz. vol. 160; p. 850.
Concrete tie. W. J. Green. No. 977,728; Dec. 6; Sp. p. 683; Gaz. vol. 161; p. 106.
Concrete tie, Reinforced- C. R. Holden. No. 955,645; Apr. 19; Sp. p. 4226; Gaz. vol. 153; p. 732.
Concrete-tile casing. C. R. Burlingame. No. 962,074; June 21; Sp. p. 3828; Gaz. vol. 155; p. 670.
Concrete tiles, Making decorated. F. J. Sterner and W. A. Rose. No. 964,326; July 12; Sp. p. 2814; Gaz. vol. 156; p. 464.
Concrete tower, Reinforced-. L. F. H. de Miffonis. No. 960,666; June 7; Sp. p. 876; Gaz. vol. 155; p. 144.
Concrete vault. W. Pugh. No. 964,184; July 12; Sp. p. 2521; Gaz. vol. 156; p. 415.
Concrete veneer for building construction, Metal-reinforced. A. Schnurr. No. 957,382; May 10; Sp. p. 1907; Gaz. vol. 154; p. 332.
Concrete wall. H. N. Pettigrew. No. 954,690; Apr. 12; Sp. p. 2134; Gaz. vol. 153; p. 374.
Concrete wall construction. L. Lapersonnerie. No. 959,360; May 24; Sp. p. 6356; Gaz. vol. 154; p. 1063.
Concrete-wall mold. D. H. Magdiel. No. 945,182; Jan. 4; Sp. p. 360; Gaz. vol. 150; p. 60.
Concrete-wall mold. D. H. Magdiel. No. 945,183; Jan. 4; Sp. p. 364; Gaz. vol. 150; p. 61.
Concrete-wall mold. H. J. Kimmel. No. 953,532; Mar. 29; Sp. p. 6367; Gaz. vol. 152; p. 1139.
Concrete-wall mold. G. B. Davis and J. A. MacFarland. No. 969,248; Sept. 6; Sp. p. 216; Gaz. vol. 158; p. 35.
Concrete-wall mold or form. I. N. Gates. No. 963,431; July 5; Sp. p. 937; Gaz. vol. 156; p. 140.
Concrete-wall mold, Ventilated-. H. T. Frost. No. 965,805; July 26; Sp. p. 6071; Gaz. vol. 156; p. 1029.
Concrete walls and the like, Machine for molding. A. J. Stoeser. No. 953,720; Apr. 5; Sp. p. 72; Gaz. vol. 153; p. 16.
Concrete walls, Apparatus for molding. G. F. Cross. No. 952,236; Mar. 15; Sp. p. 3575; Gaz. vol. 152; p. 643.
Concrete walls, piers, columns, &c., Sectional mold for forming. J. G. Barnes. No. 946,315; Jan. 11; Sp. p. 2877; Gaz. vol. 150; p. 477.
Concrete walls, Reinforcing metal yoke for hollow. W. E. Nelson. No. 953,877; Apr. 12; Sp. p. 2602; Gaz. vol. 153; p. 442.
Concrete walls, Skeleton structure for. H. Root. No. 956,424; Apr. 26; Sp. p. 5923; Gaz. vol. 153; p. 1030.
Concrete work, Anchorage for. H. L. Weber. No. 973,828; Oct. 25; Sp. p. 5064; Gaz. vol. 159; p. 880.
Concreter's bolt. B. H. Paugh. No. 945,863; Jan. 11; Sp. p. 1918; Gaz. vol. 150; p. 318.
Condensation-meter. H. A. Austin. No. 964,837; July 19; Sp. p. 4023; Gaz. vol. 156; p. 669.
Condenser. F. J. Loomis. No. 946,238; Jan. 11; Sp. p. 2702; Gaz. vol. 150; p. 449.
Condenser. G. B. Petsche. No. 947,845; Feb. 1; Sp. p. 141; Gaz. vol. 151; p. 24.
Condenser. E. F. Rudeen. No. 948,432; Feb. 8; Sp. p. 1373; Gaz. vol. 151; p. 245.
Condenser. M. Leblanc. No. 953,475; Mar. 29; Sp. p. 6236; Gaz. vol. 152; p. 1118.
Condenser. C. J. Snow. No. 956,210; Apr. 26; Sp. p. 5482; Gaz. vol. 153; p. 958.
Condenser. A. Steinbart. No. 959,640; May 31; Sp. p. 6941; Gaz. vol. 154; p. 1182.
Condenser. W. Schwanhausser. No. 960,417; June 7; Sp. p. 363; Gaz. vol. 155; p. 61.
Condenser. G. M. Harden. No. 962,427; June 28; Sp. p. 4615; Gaz. vol. 155; p. 815.
Condenser. T. D. Fallon. No. 966,675; Aug. 9; Sp. p. 1785; Gaz. vol. 157; p. 306.
Condenser. E. T. Winkler. No. 968,909; Aug. 30; Sp. p. 6557; Gaz. vol. 157; p. 1141.
Condenser. G. Reimers. No. 974,598; Nov. 1; Sp. p. 1189; Gaz. vol. 160; p. 182.
Condenser. D. G. Galbraith. No. 975,612; Nov. 15; Sp. p. 3415; Gaz. vol. 160; p. 579.

Condenser. R. D. Tomlinson. No. 978,411; Dec. 13; Sp. p. 2151; Gaz. vol. 161; p. 374.
Condenser. E. W. Christie and T. Roberts. No. 978,697; Dec. 13; Sp. p. 2763; Gaz. vol. 161; p. 471.
Condenser, Ammonia-. B. Walter. No. 948,835; Feb. 8; Sp. p. 2240; Gaz. vol. 151; p. 380.
Condenser and mold for carbon dioxid. W. J. Flemming. No. 955,454; Apr. 19; Sp. p. 3795; Gaz. vol. 153; p. 666.
Condenser, Counter-current. O. H. Mueller. No. 952,461; Mar. 22; Sp. p. 4033; Gaz. vol. 152; p. 746.
Condenser, Electrical. R. H. Manson. No. 961,978; June 21; Sp. p. 3615; Gaz. vol. 155; p. 636.
Condenser, Electrical. W. W. Dean. No. 965,992; Aug. 2; Sp. p. 311; Gaz. vol. 157; p. 51.
Condenser, Electrical. W. W. Dean. No. 971,667; Oct. 4; Sp. p. 330; Gaz. vol. 159; p. 58.
Condenser, Electro-adjustable. H. Gernsback. No. 951,788; Mar. 8; Sp. p. 2694; Gaz. vol. 152; p. 464.
Condenser, Electrolytic. E. E. F. Creighton. No. 974,029; Oct. 25; Sp. p. 5487; Gaz. vol. 159; p. 951.
Condenser, Injector-. W. M. Fleming. No. 949,761; Feb. 22; Sp. p. 4143; Gaz. vol. 151; p. 749.
Condenser, Jet-. M. Leblanc. No. 953,535; Mar. 29; Sp. p. 6371; Gaz. vol. 152; p. 1140.
Condenser, Steam-. C. J. Snow. No. 956,211; Apr. 26; Sp. p. 5485; Gaz. vol. 153; p. 958.
Condenser, Steam-. P. H. Sellers. No. 962,789; June 28; Sp. p. 5394; Gaz. vol. 155; p. 942.
Condenser, Steam-. H. L. Brandon. No. 971,486; Sept. 27; Sp. p. 4929; Gaz. vol. 158; p. 862.
Condenser, Surface. C. G. Curtis. No. 952,102; Mar. 15; Sp. p. 3320; Gaz. vol. 152; p. 598.
Condenser, Surface. L. R. Alberger. No. 957,175; May 10; Sp. p. 1449; Gaz. vol. 154; p. 259.
Condenser, Surface. J. W. Pentecost. No. 969,719; Sept. 6; Sp. p. 1201; Gaz. vol. 158; p. 194.
Condenser system. L. R. Alberger. No. 976,245; Nov. 22; Sp. p. 4790; Gaz. vol. 160; p. 819.
Condenser, water-heater, and oil-separator, Steam-. J. E. Caps. No. 949,217; Feb. 15; Sp. p. 3001; Gaz. vol. 151; p. 533.
Condensers, Apparatus for removing gases and vapors from surface. E. Josse and W. Gensecke. No. 971,505; Sept. 27; Sp. p. 4965; Gaz. vol. 158; p. 869.
Condensers, Apparatus for withdrawing air and water from steam-. D. B. Morison. No. 967,810; Aug. 16; Sp. p. 4173; Gaz. vol. 157; p. 716.
Condensing apparatus, Steam-. D. A. Quiggin. No. 962,095; June 21; Sp. p. 3869; Gaz. vol. 155; p. 677.
Condensing fluid substances. A. G. Kalb. No. 957,685; May 10; Sp. p. 2517; Gaz. vol. 154; p. 435.
Condensing fluid substances. A. G. Kalb. No. 957,686; May 10; Sp. p. 2519; Gaz. vol. 154; p. 435.
Condensing plant and air-pump, Steam-. W. Weir. No. 957,638; May 10; Sp. p. 2417; Gaz. vol. 154; p. 418.
Condensing plants, Air-indicator for steam-. R. L. Weighton. No. 950,976; Mar. 1; Sp. p. 1074; Gaz. vol. 152; p. 172.
Condiment-holder. R. Wilson, Jr. No. 946,085; Jan. 11; Sp. p. 2375; Gaz. vol. 150; p. 395.
Condiment-holder. G. B. Clemmer. No. 956,942; May 3; Sp. p. 949; Gaz. vol. 154; p. 152.
Condiment-holder. C. C. Sprinkle. No. 968,890; Aug. 30; Sp. p. 6515; Gaz. vol. 157; p. 1135.
Condiment-holder. C. F. Rigby. No. 969,566; Sept. 6; Sp. p. 890; Gaz. vol. 158; p. 141.
Condiment-holder. A. J. Bennett. No. 974,343; Nov. 1; Sp. p. 607; Gaz. vol. 160; p. 91.
Condiment-shaker. J. D. Kinsley. No. 964,433; July 12; Sp. p. 3018; Gaz. vol. 156; p. 498.
Condiment-shaker. C. S. Olson. No. 968.257; Aug. 23; Sp. p. 5168; Gaz. vol. 157; p. 890.
Conductor-splicer. F. W. Oettgen. No. 978,630; Dec. 13; Sp. p. 2649; Gaz. vol. 161; p. 450.
Conductor-strip. H. B. Collier. No. 976,154; Nov. 22; Sp. p. 4544; Gaz. vol. 160; p. 786.
Conduit. E. R. Ramsey. No. 963,471; July 5; Sp. p. 1018; Gaz. vol. 156; p. 154.
Conduit, Flexible. G. A. Lutz. No. 962,772; June 28; Sp. p. 5353; Gaz. vol. 155; p. 935.
Conduit-hood. L. A. Fleury, Jr. No. 975,757; Nov. 15; Sp. p. 3723; Gaz. vol. 160; p. 628.
Conduit or subway. W. H. Burr and J. A. Lockwood. No. 950,610; Mar. 1; Sp. p. 311; Gaz. vol. 152; p. 51.
Conduit-outlet. H. A. Gilbert. No. 949,628; Feb. 15; Sp. p. 3854; Gaz. vol. 151; p. 672.
Conduit-rod or coupling therefor. E. L. Upson and F. J. Dole. No. 967,862; Aug. 16; Sp. p. 4284; Gaz. vol. 157; p. 733.
Conduit, Sectional. O. K. Hugo. No. 950,264; Feb. 22; Sp. p. 5278; Gaz. vol. 151; p. 926.
Conduit-threading device. F. Crawford. No. 966,799; Aug 9; Sp. p. 2096; Gaz. vol. 157; p. 348.
Conduits and tunnels, Apparatus for making. J. P. Grohs. No. 974,960; Nov. 8; Sp. p. 2015; Gaz. vol. 160; p. 330.
Conduits, Elbow for. G. A. Lutz. No. 962,773; June 28; Sp. p. 5354; Gaz. vol. 155; p. 936.
Conduits, Elbow for. G. A. Lutz. No. 962,774; June 28; Sp. p. 5357; Gaz. vol. 155; p. 936.
Conduits, Laying. C. Cahn and E. Seeberger. No. 973,752; Oct. 25; Sp. p. 4903; Gaz. vol. 159; p. 853.
Conduits, Outlet-fixture for. H. T. Paiste. No. 963,639; July 5; Sp. p. 1358; Gaz. vol. 156; p. 210.
Confection explosive shell. L. Braquier. No. 950,591; Mar. 1; Sp. p. 266; Gaz. vol. 152; p. 44.
Confections, Storage-receptacle for frozen. C. W. Reynolds. No. 962,527; June 28; Sp. p. 4833; Gaz. vol. 155; p. 850.
Confectionery machinery. S. Pooley. No. 966,357; Aug. 2; Sp. p. 1063; Gaz. vol. 157; p. 171.
Confinement-chair. E. C. Schortmann. No. 954,474; Apr. 12; Sp. p. 1659; Gaz. vol. 153; p. 300.
Connecting-clip. G. B. Dusinberre. No. 963,425; July 5; Sp. p. 929; Gaz. vol. 156; p. 138.
Connecting-pipe, Flexible. G. W. Henry, Jr. No. 948,858; Feb. 8; Sp. p. 2278; Gaz. vol. 151; p. 387.
Connection, Flexible. F. W. Baaden. No. 960,061; May 31; Sp. p. 7906; Gaz. vol. 154; p. 1327.
Contact-former or line-tapper. C. A. Beghtol. No. 964,741; July 19; Sp. p. 3824; Gaz. vol. 156; p. 636.
Container. F. Westerbeck. No. 947,507; Jan. 25; Sp. p. 5609; Gaz. vol. 150; p. 931.
Container. G. E. Cleveland. No. 950,475; Mar. 1; Sp. p. 28; Gaz. vol. 152; p. 6.
Container. T. L. Smith. No. 951,853; Mar. 15; Sp. p. 2838; Gaz. vol. 152; p. 516.
Container. F. B. Davidson. No. 958,372; May 17; Sp. p. 4310; Gaz. vol. 154; p. 704.
Container. B. O. Darrow. No. 964,621; July 19; Sp. p. 3477; Gaz. vol. 156; p. 594.
Container. F. Westerbeck. No. 979,815; Dec. 27; Sp. p. 5200; Gaz. vol. 161; p. 901.
Container and grating device, Combined. C. Winlack. No. 949,388; Feb. 15; Sp. p. 3395; Gaz. vol. 151; p. 592.
Container-closure. J. R. Harbeck. No. 970,496; Sept. 20; Sp. p. 2882; Gaz. vol. 158; p. 504.
Container-forming machine J. C. Thompson. No. 945,875; Jan. 11; Sp p. 1938; Gaz. vol. 150; p. 323.
Container-top. J. B. Williamson and A. V. Oldham. No. 950,064; Feb. 22; Sp. p. 4864; Gaz. vol. 151; p. 856.
Continuous kiln. W. H. Smith. No. 951,461; Mar. 8; Sp. p. 2044; Gaz. vol. 152; p. 354.
Continuous kiln. W. A. Butler. No. 969,034; Aug. 30; Sp. p. 6794; Gaz. vol. 157; p. 1184.
Control system, Alternating-direct-current. R. P. Jackson. No. 967,389; Aug. 16; Sp. p. 3334; Gaz. vol. 157; p. 575.
Controller. F. E. Case. No. 948,442; Feb. 8; Sp. p. 1389; Gaz. vol. 151; p. 248.
Controller. A. T. Crocker. No. 948,444; Feb. 8; Sp. p. 1395; Gaz. vol. 151; p. 248.
Controller. F. D. Hallock. No. 958,803; May 24; Sp. p. 5194; Gaz. vol. 154; p. 875.
Controller. A. F. Rockwell. No. 962,253; June 21; Sp. p. 4214; Gaz. vol. 155; p. 731.
Controller. E. Schattner (Reissue.) No. 13,178; Dec. 6; Sp. p. 1525; Gaz. vol. 161; p. 245.
Controller, Electropneumatically-operated. J. Mahoney. No. 962,713; June 28; Sp. p. 5234; Gaz. vol. 155; p. 914.
Controller-handle. F. E. Case. No. 970,684; Sept. 20; Sp. p. 3309; Gaz. vol. 158; p. 569.
Controller-handles, Locking mechanism for. A. S. Cubitt. No. 977,073; Nov. 29; Sp. p. 6618; Gaz. vol. 160; p. 1128.
Controller, Mechanical. H. W. Forslund. No. 954,508; Apr. 12; Sp. p. 1735; Gaz. vol. 153; p. 312.
Controller-regulator. W. P. Casper. No. 949,755; Feb. 22; Sp. p. 4126; Gaz. vol. 151; p. 747.
Controller-regulator. A. S. Cubitt. No. 949,998; Feb. 22; Sp. p. 4718; Gaz. vol. 151; p. 833.
Controlling apparatus. N. Werlé. No. 974,006; Oct. 25; Sp. p. 5437; Gaz. vol. 159; p. 942.
Controlling apparatus, Automatic. R. W. Scott and J. Sampere. No. 967,984; Aug. 23; Sp. p. 4547; Gaz. vol. 157; p. 798.
Controlling device. R. V. Inglish. No. 952,808; Mar. 22; Sp. p. 4813; Gaz. vol. 152; p. 866.
Controlling device. J. E. Radigan. No. 974,991; Nov. 8; Sp. p. 2088; Gaz. vol. 160; p. 340.
Controlling devices, Interlocking safety mechanism for. F. H. Kittredge. No. 964,654; July 19; Sp. p. 3540; Gaz. vol. 156; p. 606.
Controlling mechanism. H. M. Chase and M. F. H. Gouverneur. No. 965,081; July 19; Sp. p. 4510; Gaz. vol. 156; p. 751.
Controlling mechanism. G. E. Turner. No. 972,296; Oct. 11; Sp. p. 1706; Gaz. vol. 159; p. 300.
Controlling mechanism, Check-operated. L. M. Nelson. No. 967,822; Aug. 16; Sp. p. 4206; Gaz. vol. 157; p. 719.
Controlling mechanism, Fluid-operated. J. W. Anderson. No. 959,417; May 24; Sp. p. 6455; Gaz. vol. 154; p. 1081.
Converter. W. J. Murphy and A. E. Culley. No. 972,564; Oct. 11; Sp. p. 2290; Gaz. vol. 159; p. 395.
Converter. R. Baggaley. No. 977,922; Dec. 6; Sp. p. 1089; Gaz. vol. 161; p. 173.
Converter, Variable-ratio rotary. J. L. Woodbridge. No. 949,251; Feb. 15; Sp. p. 3074; Gaz. vol. 151; p. 544.
Convertible chair. Z. B. Csiky, J. Kronheim, and Z. Tamassy. No. 951,211; Mar. 8; Sp. p. 1505; Gaz. vol. 152; p. 272.

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Convertible chair. C. F. Miller. No. 953,483; Mar. 29; Sp. p. 6252; Gaz. vol. 152; p. 1121.
Convertible chair. A. G. Shaw. No. 954,594; Apr. 12; Sp. p. 1917; Gaz. vol. 153; p. 341.
Convertible chair. W. G. Shear. No. 961,169; June 14; Sp. p. 1875; Gaz. vol. 155; p. 340.
Convertible chair. M. Shalansky. No. 975,374; Nov. 8; Sp. p. 2913; Gaz. vol. 160; p. 470.
Converting apparatus. C. L. Sovereign and A. W. H. Lenders. No. 948,485; Feb. 8; Sp. p. 1486; Gaz. vol. 151; p. 263.
Conveyer. W. M. Schwartz. No. 945,616; Jan. 4; Sp. p. 1301; Gaz. vol. 150; p. 204.
Conveyer. J. A. Svenson. No. 945,636; Jan. 4; Sp. p. 1352; Gaz. vol. 150; p. 210.
Conveyer. J. Ashford. No. 948,085; Feb. 1; Sp. p. 637; Gaz. vol. 151; p. 103.
Conveyer. D. J. Nee. No. 948,661; Feb. 8; Sp. p. 1864; Gaz. vol. 151; p. 322.
Conveyer. C. D. Seeberger. No. 951,744; Mar. 8; Sp. p. 2595; Gaz. vol. 152; p. 448.
Conveyer. D. W. Sullivan. No. 952,381; Mar. 15; Sp. p. 3860; Gaz. vol. 152; p. 691.
Conveyer. C. D. Seeberger. No. 956,606; May 3; Sp. p. 215; Gaz. vol. 154; p. 37.
Conveyer. E. E. Vrooman. No. 968,211; Aug. 23; Sp. p. 5071; Gaz. vol. 157; p. 874.
Conveyer. M. Sklovsky and G. W. Mixter. No. 969,415; Sept. 6; Sp. p. 561; Gaz. vol. 158; p. 90.
Conveyer. C. D. Seeberger. No. 972,475; Oct. 11; Sp. p. 2079; Gaz. vol. 159; p. 362.
Conveyer. C. D. Seeberger. No. 973,079; Oct. 18; Sp. p. 3449; Gaz. vol. 159; p. 598.
Conveyer. J. M. Dodge. No. 973,921; Oct. 25; Sp. p. 5262; Gaz. vol. 159; p. 912.
Conveyer. W. J. Turnbull. No. 975,181; Nov. 8; Sp. p. 2508; Gaz. vol. 160; p. 405.
Conveyer. J. F. Russell. No. 975,721; Nov. 15; Sp. p. 3647; Gaz. vol. 160; p. 614.
Conveyer. C. D. Seeberger. No. 977,047; Nov. 29; Sp. p. 6560; Gaz. vol. 160; p. 1120.
Conveyer. F. R. Willson, Jr. No. 977,987; Dec. 6; Sp. p. 1218; Gaz. vol. 161; p. 196.
Conveyer. F. R. Willson, Jr. No. 977,988; Dec. 6; Sp. p. 1219; Gaz. vol. 161; p. 196.
Conveyer and elevator. P. L. O'Toole. No. 967,424, Aug. 16; Sp. p. 3406; Gaz. vol. 157; p. 587.
Conveyer-apron. E. G. Clymans. No. 954,781; Apr. 12; Sp. p. 2354; Gaz. vol. 153; p. 407.
Conveyer-bucket. S. A. Cooney. No. 979,653; Dec. 27; Sp. p. 4830; Gaz. vol. 161; p. 847.
Conveyer, Chain. J. K. Boland. No. 965,067; July 19; Sp. p. 4486; Gaz. vol. 156; p. 746.
Conveyer, Chain. T. A. Coleman. No. 977,273; Nov. 29; Sp. p. 7044; Gaz. vol. 160; p. 1198.
Conveyer-chain cleat attachment C. W. Morgan and C. L. Rice. No. 973,686; Oct. 25; Sp. p. 4785; Gaz. vol. 159; p. 831.
Conveyer, Chute. J. E. Snell and G. T. Hand. No. 954,895; Apr. 12; Sp. p. 2642; Gaz. vol. 153; p. 447.
Conveyer-cleat. W. Jones. No. 972,698; Oct. 11; Sp. p. 2578; Gaz. vol. 159; p. 439.
Conveyer, Discharge-. S. L. Goldman. No. 967,758; Aug. 16; Sp. p. 4080; Gaz. vol. 157; p. 699.
Conveyer, Endless. F. G. Wood. No. 961,193; June 14; Sp. p. 1927; Gaz. vol. 155; p. 349.
Conveyer-flight. T. C. Morris. No. 969,145; Aug. 30; Sp. p. 7029; Gaz. vol. 157; p. 1223.
Conveyer having spiral blade of varying pitch, Gravity-. M. C. Schwab. No. 979,711; Dec. 27; Sp. p. 4938; Gaz. vol. 161; p. 866.
Conveyer-link. A. R. Laubenstein. No. 976,664; Nov. 22; Sp. p. 5694; Gaz. vol. 160; p. 963.
Conveyer mechanism. J. Mussell. No. 951,738; Mar. 8; Sp. p. 2579; Gaz. vol. 152; p. 446.
Conveyer mechanism. J. Mussell. No. 975,565; Nov. 15; Sp. p. 3321; Gaz. vol. 160; p. 564.
Conveyer, Multiple gravity-. M. C. Schwab. No. 961,804; June 21; Sp. p. 3224; Gaz. vol. 155; p. 579.
Conveyer, Package-. M. C. Schwab. No. 946,880; Jan. 18; Sp. p. 4209; Gaz. vol. 150; p. 693.
Conveyer-roller. S. L. Goldman. No. 960,010; May 31; Sp. p. 7781; Gaz. vol. 154; p. 1309.
Conveyer, Screening-. U. Wedge. No. 973,597; Oct. 25; Sp. p. 4576; Gaz. vol. 159; p. 798
Conveyer system. S. H. Libby. No. 947,200; Jan. 18; Sp. p. 4829; Gaz. vol. 150; p. 796.
Conveyer system. C. D. Seeberger. No. 951,745; Mar. 8; Sp. p. 2597; Gaz. vol. 152; p. 449.
Conveyer, Truck-. J. W. Reno. No. 974,918; Nov. 8; Sp. p. 1903; Gaz. vol. 160; p. 314.
Conveyers and receptacles, Connecting-coupling for extensible. W. Lennon. No. 977,023; Nov. 29; Sp. p. 6516; Gaz. vol. 160; p. 1112.
Conveyers, Bucket attachment for. F. B. Ball. No. 972,317; Oct. 11; Sp. p. 1745; Gaz. vol. 159; p. 306.
Conveyers, Deflector for gravity-. M. C. Schwab. No. 975,800; Nov. 15; Sp. p. 3814; Gaz. vol. 160; p. 642.
Conveyers, Driving mechanism for sheet-. T. C. Dexter and W. M. McCain. No. 950,374; Feb. 22; Sp. p. 5479; Gaz. vol. 151; p. 960.
Conveyers, Feeder or receiving-pan for. G. Holmes. No. 950,621; Mar. 1; Sp. p. 334; Gaz. vol. 152; p. 54.
Conveyers, Flight attachment for. A. J. Frase. No. 956,520; May 3; Sp. p. 23; Gaz. vol. 154; p. 7.
Conveyers, Grip for tramway bucket. B. C. Riblet. No. 953,763; Apr. 5; Sp. p. 161; Gaz. vol. 153; p. 30.
Conveyers, Intake for pneumatic. J. W. East. No. 955,952; Apr. 26; Sp. p. 4909; Gaz. vol. 153; p. 867.
Conveyers, Spreading-section for overhead. F. W. Bright. No. 961,338; June 14; Sp. p. 2270; Gaz. vol. 155; p. 400.
Conveyers, Stop for. C. T. Adcox and D. A. Headrick. No. 953,572; Mar. 29; Sp. p. 6448; Gaz. vol. 152; p. 1153.
Conveying apparatus. J. H. Gilman. No. 947,592; Jan. 25; Sp. p. 5776; Gaz. vol. 150; p. 960.
Conveying apparatus. E. G. Thomas. No. 958,044; May 17; Sp. p. 3452; Gaz. vol. 154; p. 590.
Conveying device. J. S. Dewey. No. 961,486; June 14; Sp. p. 2575; Gaz. vol. 155; p. 449.
Conveying device for strips of material, Roller. O. Oehring. No. 953,918; Apr. 5; Sp. p. 463; Gaz. vol. 153; p. 85.
Conveying system. W. R. Cunningham. No. 973,007; Oct. 18; Sp. p. 3303; Gaz. vol. 159; p. 574.
Cooker. G. G. Fox. No. 956,802; May 3; Sp. p. 648; Gaz. vol. 154; p. 103
Cooker. G. W. Ferguson. No. 968,925; Aug. 30; Sp. p. 6582; Gaz. vol. 157; p. 1146.
Cooker. W. H. Dewees. No. 976,156; Nov. 22; Sp. p. 4548; Gaz. vol. 160; p. 786.
Cooker and canner, Steam. J. K. Hawkins. No. 947,062; Jan. 18; Sp. p. 4567; Gaz. vol. 150; p. 753
Cooker, Compressed-steam. N. T. Hanson. No. 952,112; Mar. 15; Sp. p. 3339; Gaz. vol. 152; p. 601.
Cooker, Cotton-seed-meal. T. G. Wolfe. No. 980,039; Dec. 27; Sp. p. 5668; Gaz. vol. 161; p. 976.
Cooker, Fireless. S. D. Baker. No. 950,589; Mar. 1; Sp. p. 260; Gaz. vol. 152; p. 43.
Cooker, Fireless. J. Winter. No. 955,733; Apr. 19; Sp. p. 4420; Gaz. vol. 153; p. 762.
Cooker, Fireless. A. T. Hallock. No. 966,014; Aug. 2; Sp. p. 366; Gaz. vol. 157; p. 59.
Cooker, Fireless. B. Kellogg. No. 968,165; Aug. 23; Sp. p. 4975; Gaz. vol. 157; p. 858.
Cooker, Fireless. J. W. Flory. No. 971,260; Sept. 27; Sp. p. 4518; Gaz. vol. 158; p. 790.
Cooker, Fireless. A. T. Hallock. No. 975,416; Nov. 15; Sp. p. 2996; Gaz. vol. 160; p. 510.
Cooker, Heat-retaining starch-. J. P. Shupe. No. 967,451; Aug. 16; Sp. p. 3452; Gaz. vol. 157; p. 595.
Cooker, Steam-. H. A. Stoddard. No. 948,149; Feb. 1; Sp. p. 761; Gaz. vol. 151; p. 125.
Cooker, Steam-. J. C. Prims. No. 951,452; Mar. 8; Sp. p. 2021; Gaz. vol. 152; p. 350.
Cooker, Steam-. A. W. Meyer. No. 952,572; Mar. 22; Sp. p. 4285; Gaz. vol. 152; p. 785.
Cooker, Steam-. L. E. Daniels. No. 966,661; Aug. 9; Sp. p. 1765; Gaz. vol. 157; p. 301.
Cooker, Steam-. O. E. Allen. No. 970,289; Sept. 13; Sp. p. 2455; Gaz. vol. 158; p. 414.
Cooker, Steam-. W. A. C. Murphy. No. 970,638; Sept. 20; Sp. p. 3215; Gaz. vol. 158; p. 553.
Cooker, Steam-. O. G. Storm. No. 979,591; Dec. 27; Sp. p. 4699; Gaz. vol. 161; p. 825.
Cookers, Heat-accumulator for fireless. J. W. Myers. No. 966,579; Aug. 9; Sp. p. 1607; Gaz. vol. 157; p. 274.
Cooking and heating apparatus. F. O. Getchell. No. 961,437; June 14; Sp. p. 2458; Gaz. vol. 155; p. 433.
Cooking apparatus. L. R. Davis. No. 972,603; Oct. 11; Sp. p. 2389; Gaz. vol. 159; p. 408.
Cooking apparatus. W. Fowler. No. 976,646; Nov. 22; Sp. p. 5658; Gaz. vol. 160; p. 957.
Cooking apparatus, Sanitary. A. Shepherd. No. 965,955; Aug. 2; Sp. p. 214; Gaz. vol. 157; p. 37.
Cooking appliance. S. T. Willson. No. 970,286; Sept. 13; Sp. p. 2449; Gaz. vol. 158; p. 413.
Cooking articles, Instrument for indicating the temperature of. J. Nielsen and S. A. C. Kristensen. No. 945,978; Jan. 11; Sp p. 2163; Gaz. vol. 150; p. 360.
Cooking asparagus, Device for. M. M. Dickinson. No. 966,386; Aug. 2; Sp. p. 1121; Gaz. vol 157; p. 181.
Cooking corn and other food products, Apparatus for. H. C. Baxter. No. 959,448; May 31; Sp. p. 6537; Gaz. vol. 154; p. 1117.
Cooking device. F. M. Delaih. No. 976,252; Nov. 22; Sp. p. 4807; Gaz. vol. 160; p. 821.
Cooking device with heat-regulator, Gas. H. Junkers. No. 947,914; Feb. 1; Sp. p. 280; Gaz. vol. 151; p. 47.
Cooking, &c., Electrically-heated apparatus suitable for. A. F. Berry. No. 959,913; May 31; Sp. p. 7545; Gaz. vol. 154; p. 1274.
Cooking or heating utensil. M. Stransky. No. 977,052; Nov. 29; Sp. p. 6572; Gaz. vol. 160; p. 1121.
Cooking outfit, Camp. A. J. Avery. No. 948,717; Feb. 8; Sp. p. 1988; Gaz. vol. 151; p. 340.
Cooking utensil. A. H. Merrill. No. 945,105; Jan. 4; Sp. p. 204; Gaz. vol. 150; p. 35.
Cooking utensil. J. F. Milligan. No. 946,387; Jan. 11; Sp. p. 3117; Gaz. vol. 150; p. 501.
Cooking utensil. F. Andreas and F. L. Schaab. No. 948,491; Feb. 8; Sp. p. 1502; Gaz. vol. 151; p. 265.

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Cooking utensil. P. Steger. No. 949,453; Feb. 15; Sp. p. 3508; Gaz. vol. 151; p. 613.
Cooking utensil. M. F. Dolan. No. 950,844; Mar. 1; Sp. p. 817; Gaz. vol. 152; p. 131.
Cooking utensil. H. M. Taylor. No. 951,409; Mar. 8; Sp. p. 1938; Gaz. vol. 152; p. 336.
Cooking utensil. T. W. Stanton. No. 952,848; Mar. 22; Sp. p. 4893; Gaz. vol. 152; p. 881.
Cooking utensil. M. E. Hovey. No. 966,210; Aug. 2; Sp. p. 797; Gaz. vol. 157; p. 125.
Cooking utensil. C. McGill. No. 966,946; Aug. 9; Sp. p. 2401; Gaz. vol. 157; p. 395.
Cooking utensil. J. Bryers. No. 971,727; Oct. 4; Sp. p. 463; Gaz. vol. 159; p. 79.
Cooking utensil. F. O. Rollins. No. 974,828; Nov. 8; Sp. p. 1689; Gaz. vol. 160; p. 283.
Cooking utensil. M. T. Duffy. No. 975,843; Nov. 15; Sp. p. 3890; Gaz. vol. 160; p. 656.
Cooking-utensil cold handle. R. O. Hammond. No. 979,847; Dec. 27; Sp. p. 5271; Gaz. vol. 161; p. 912.
Cooking-utensil handle. J. H. Wilson. No. 945,659; Jan. 4; Sp. p. 1400; Gaz. vol. 150; p. 218.
Cooking-utensil lid and cover. E. Milholland and E. F. Sweitzer. No. 950,552; Mar. 1; Sp. p. 189; Gaz. vol. 152; p. 32.
Cooking utensils, Device for greasing. F. R. Bradbury. No. 956,929; May 3; Sp. p. 929; Gaz. vol. 154; p. 148.
Cooking utensils, Ventilated receptacle for. A. E. Fogelquist. No. 961,291; June 14; Sp. p. 2144; Gaz. vol. 155; p. 384.
Cooking vessel. B. F. Ferguson. No. 951,065; Mar. 1; Sp. p. 1220; Gaz. vol. 152; p. 200.
Cooking vessel. W. Sylvester. No. 959,647; May 31; Sp. p. 6964; Gaz. vol. 154; p. 1185.
Cooking vessel. C. F. Molander. No. 960,105; May 31; Sp. p. 7982; Gaz. vol. 154; p. 1341.
Cooking-vessel holder. F. Schuler. No. 980,130; Dec. 27; Sp. p. 5893; Gaz. vol. 161; p. 1006.
Cooler: *See* Automobile-cooler; Beer-cooler; Bottle-cooler; Brine-cooler; Candy-cooler; Cream-cooler; Engine-cooler; Flat-iron-handle cooler; Liquid-cooler; Milk-cooler; Water-cooler.
Cooler. O. A. Kersey. No. 958,931; May 24; Sp. p. 5490; Gaz. vol. 154; p. 921.
Cooler. M. A. Simmons. No. 978,339; Dec. 13; Sp. p. 2000; Gaz. vol. 161; p. 348.
Cooler and soda-fountain construction. G. W. and H. A. Wise. No. 972,137; Oct. 4; Sp. p. 1343; Gaz. vol. 159; p. 227.
Coolers, Coil-protector for. A. C. Canida. No. 949,216; Feb. 15; Sp. p. 2999; Gaz. vol. 151; p. 532.
Cooling and drying materials, Apparatus for. W. G. Schröder. No. 949,719; Feb. 15; Sp. p. 4022; Gaz. vol. 151; p. 700.
Cooling apparatus. G. W. and H. A. Wise. No. 955,242; Apr. 19; Sp. p. 3341; Gaz. vol. 153; p. 596.
Cooling apparatus. W. B. Allbright. No. 960,614; June 7; Sp. p. 763; Gaz. vol. 155; p. 126.
Cooling apparatus for fluid or semifluid substances. E. Schou. No. 957,629; May 10; Sp. p. 2398; Gaz. vol. 154; p. 415.
Cooling apparatus for provisions. L. D. Secrest. No. 948,581; Feb. 8; Sp. p. 1687; Gaz. vol. 151; p. 294.
Cooling system for packing-houses. T. Fellows. No. 954,674; Apr. 12; Sp. p. 2103; Gaz. vol. 153; p. 369.
Cooling-tower. E. Burhorn. No. 961,100; June 14; Sp. p. 1741; Gaz. vol. 155; p. 316.
Cooling-tower. D. B. Morison. No. 965,116; July 19; Sp. p. 4573; Gaz. vol. 156; p. 763.
Cooling-tower. J. W. Beck. No. 969,743; Sept. 6; Sp. p. 1270; Gaz. vol. 158; p. 203.
Cooling-tower. E. Burhorn. No. 973,163; Oct. 18; Sp. p. 3660; Gaz. vol. 159; p. 628.
Cooling-tower. L. R. Alberger. No. 976,246; Nov. 22; Sp. p. 4795; Gaz. vol. 160; p. 819.
Cooling-tower. E. Burhorn. No. 978,986; Dec. 20; Sp. p. 3384; Gaz. vol. 161; p. 595.
Coop, Brooding-. A. W. Altorfer. No. 948,716; Feb. 8; Sp. p. 1986; Gaz. vol. 151; p. 340.
Coop, Brooding and nesting. R. W. Prescott and H. J. Whittier. No. 952,355; Mar. 15; Sp. p. 3821; Gaz. vol. 152; p. 683.
Coop, Folding chicken-. F. W. Koesters. No. 978,759; Dec. 13; Sp. p. 2903; Gaz. vol. 161; p. 491.
Coop, Folding poultry-. R. Trumpold and A. Koerner. No. 957,274; May 10; Sp. p. 1689; Gaz. vol 154; p. 295.
Coop, Metal brooding-. H. H. Grant. No. 958,630; May 17; Sp. p. 4813; Gaz. vol. 154; p. 790.
Coop or crate. O. J. La Bauve. No. 957,068; May 3; Sp. p. 1223; Gaz. vol. 154; p. 194.
Coop or crate. O. J. La Bauve. No. 957,069; May 3; Sp. p. 1225; Gaz. vol. 154; p. 194.
Coop or crate, Folding. R. Trumpold and A. Koerner. No. 957,275; May 10; Sp. p. 1689; Gaz. vol. 154; p. 296.
Coop, Poultry-. A. T. Keipper. No. 969,285; Sept. 6; Sp. p. 285; Gaz. vol. 158; p. 46.
Coop, Setting and brood. W. L. Niemann. No. 979,992; Dec. 27; Sp. p. 5554; Gaz. vol. 161; p. 960.
Cop-spindle. L. B. Laurent and G. F. Donahoe. No. 948,454; Feb. 8; Sp. p. 1411; Gaz. vol. 151; p. 252.
Cop-tube. F. H. Daniell. No. 974,126; Nov. 1; Sp. p. 41; Gaz. vol. 160; p. 10.
Copper and copper-nickel ores, Treatment of pyritic. J. T. Carrick. No. 947,789; Feb. 1; Sp. p. 25; Gaz. vol. 151; p. 6.
Copper and other metals, Depositing. A. Sang. No. 948,662; Feb. 8; Sp. p. 1865; Gaz. vol. 151; p. 322.
Copper, Electrolyte for depositing. W. G. Grey and W. Griffith. No. 976,454; Nov. 22; Sp. p. 5254; Gaz. vol. 160; p. 892.
Copper from ore, Extracting. W. L. Austin. No. 975,106; Nov. 8; Sp. p. 2327; Gaz. vol. 160; p. 380.
Copper matte and ores, Treating impure. H. Maschmeyer. No. 957,231; May 10; Sp. p. 1587; Gaz. vol. 154; p. 280.
Copper-matte converter. E. A. C. Smith. (Reissue.) No. 13,080; Jan. 25; Sp. p. 6137; Gaz. vol. 150; p. 1023.
Copper-ore concentrates preparatory for smelting, Agglomerating or briqueting. T. Rouse. No. 955,909; Apr. 26; Sp. p. 4818; Gaz. vol. 153; p. 852.
Copper, Producing electrolytic. A. S. Ramage. No. 949,003; Feb. 15; Sp. p. 2577; Gaz. vol. 151; p. 463.
Copper, Refining. W. S. Rockey and H. Eldridge. No. 978,212; Dec. 13; Sp p. 1725; Gaz. vol. 161; p. 303.
Copper-zinc compositions and alloy for the production thereof, Producing. W. Rübel. No. 952,585; Mar. 22; Sp. p. 4313; Gaz. vol. 152; p. 790.
Copy-holder. H. Hopkins. No. 947,614; Jan. 25; Sp. p. 5828; Gaz. vol. 150; p. 967.
Copy-holder. B. F. Peetz. No. 951,697; Mar. 8; Sp. p. 2489; Gaz. vol. 152; p. 432.
Copy-holder. N. K. Bowman. No. 953,456; Mar. 29; Sp. p. 6195; Gaz. vol. 152; p. 1111.
Copy-holder. B. F. Peetz. No. 957,798; May 10; Sp. p. 2756; Gaz. vol. 154; p. 472.
Copy-holder. S. Steinmeyer. No. 962,988; June 28; Sp. p. 5758; Gaz. vol. 155; p. 1008.
Copy-holder. J. A. Murray. No. 966,941; Aug. 9; Sp. p. 2394; Gaz vol. 157; p. 393.
Copy-holder. C. J. Ellis. No. 978,719; Dec. 13; Sp. p. 2824; Gaz. vol. 161; p. 479.
Copy-holder. H. Hopkins. No. 979,670; Dec. 27; Sp. p. 4859; Gaz. vol. 161; p. 852.
Copy-holder. T. J. Martin. No. 980,111; Dec. 27; Sp. p. 5843; Gaz. vol. 161; p. 999.
Copying device, Manifold-. A. R. Sampson. No. 954,822; Apr. 12; Sp. p. 2470; Gaz. vol. 153; p. 421.
Copying device, Press-. H. A. Benner. No. 959,292; May 24; Sp. p. 6222; Gaz. vol. 154; p. 1040.
Copying-frame. E. Albert. No. 978,261; Dec. 13; Sp. p. 1836; Gaz. vol. 161; p. 321.
Copying-machine. M. Drachmann. No. 956,951; May 3; Sp. p. 987; Gaz. vol. 154; p. 155.
Copying-machine, Multiple. J. J. Flanigan. No. 965,887; Aug. 2; Sp. p. 75; Gaz. vol. 157; p. 15.
Cord-clamp. F. C. Perrott. No. 950,952; Mar. 1; Sp. p. 1026; Gaz. vol. 152; p. 164.
Cord-holder. H. E. Lorentz. No. 947,111; Jan. 18; Sp. p. 4657; Gaz. vol. 150; p. 768.
Cord or other material, Manufacture or treatment of lengths of. T. Sloper. No. 965,240; July 26; Sp. p. 4820; Gaz. vol. 156; p. 834.
Cord or rope holder. C. C. Sprinkle. No. 948,709; Feb. 8; Sp. p. 1967; Gaz. vol. 151; p. 338.
Cord-twisting machine. G. S. Spencer. No. 946,162; Jan. 11; Sp. p. 2531; Gaz. vol. 150; p. 422.
Core-bar-pulling and core-cutting apparatus. J. R. McWane. No. 967,039; Aug. 9; Sp. p. 2606; Gaz. vol. 157; p. 428.
Core-bar-pulling and core-cutting apparatus. J. R. McWane. No. 967,041; Aug. 9; Sp. p. 2615; Gaz. vol. 157; p. 428.
Core-box. J. Kraus. No. 954,442; Apr. 12; Sp. p. 1571; Gaz. vol. 153; p. 289.
Core, Collapsible. E. F. Smith. No. 950,827; Mar. 1; Sp. p. 789; Gaz. vol. 152; p. 125.
Core, Collapsible. S. A. Wellman. No. 955,235; Apr. 19; Sp. p. 3328; Gaz. vol. 153; p. 594.
Core, Collapsible. C. C. Crossley. No. 957,599; May 10; Sp. p. 2331; Gaz. vol. 154; p. 405.
Core for molds, Expansible. P. C. Merillat. No. 956,125; Apr. 26; Sp. p. 5284; Gaz. vol. 153; p. 928.
Core-forming apparatus. E. E. Brown. No. 950,202; Feb. 22; Sp. p. 5150; Gaz. vol. 151; p. 904.
Core, Green-sand. T. De la Hunty. No. 976,465; Nov. 22; Sp. p. 5270; Gaz. 160; p. 895.
Core, Laminated transformer-. O. Wiemer. No. 970,587; Sept. 20; Sp. p. 3074; Gaz. vol. 158; p. 536.
Core-machine. O. K. Moore. No. 950,184; Feb. 22; Sp. p. 5110; Gaz. vol. 151; p. 897.
Core-making and sand-molding machine. F. Penlington. No. 946,645; Jan. 18; Sp. p. 3652; Gaz. vol. 150; p. 612.
Core-making apparatus. J. Gow. No. 976,648; Nov. 22; Sp. p. 5667; Gaz. vol. 160; p. 958.
Core-making machine. P. F. Woods. No. 967,479; Aug. 16; Sp. p. 3522; Gaz. vol. 157; p. 605.
Core-support, Portable. J. R. McWane and W. D. Moore. No. 967,040; Aug. 9; Sp. p. 2611; Gaz. vol. 157; p. 428.
Core, Tubular. S. Wheeler. No. 972,667; Oct. 11; Sp. p. 2521; Gaz. vol. 159; p. 429.

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Cores for pipes and other hollow castings, Machine for making sand. J. R. McWane. No. 954,876; Apr. 12; Sp. p. 2593; Gaz. vol. 153; p. 441.
Cores for worm-gears, Apparatus for making. J. A. Hallander. No. 945,941; Jan. 11; Sp. p. 2084; Gaz. vol. 150; p. 347.
Cores of sand, Making. G. W. Lewis. No. 960,973; June 7; Sp. p. 1472; Gaz. vol. 155; p. 247.
Corer. J. E. Wyant. No. 959,189; May 24; Sp. p. 6021; Gaz. vol. 154; p. 1006.
Corer and slicer, Apple. A. W. Rand. No. 961,015; June 7; Sp. p. 1559; Gaz. vol. 155; p. 262.
Corer, Apple-. B. H. Cressman. No. 953,194; Mar. 29; Sp. p. 5632; Gaz. vol. 152; p. 1023.
Coring and sizing machine, Pineapple. A. E. Lister. No. 978,383; Dec. 13; Sp. p. 2092; Gaz. vol. 161; p. 364.
Coring machine, Fruit-. A. J. Burns. No. 972,812; Oct. 18; Sp. p. 2821; Gaz. vol. 159; p. 504.
Cork and bung cutter. J. Howe. No. 969,535; Sept. 6; Sp. p. 823; Gaz. vol. 158; p. 130.
Cork and cork-puller, Combined. H. Kearney. No. 950,751; Mar. 1; Sp. p. 625; Gaz. vol. 152; p. 100.
Cork articles, Treating. G. H. Gillette. No. 946,216; Jan. 11; Sp. p. 2646; Gaz. vol. 150; p. 440.
Cork-extractor. J. H. Thomas. No. 946,740; Jan. 18; Sp. p. 3857; Gaz. vol. 150; p. 644.
Cork-extractor. F. L. Norman. No. 975,384; Nov. 8; Sp. p. 2936; Gaz. vol. 160; p. 473.
Cork grinding and polishing machine. J. Lowman. No. 967,798; Aug. 16; Sp. p. 4154; Gaz. vol. 157; p. 712.
Cork-tapering machine. I. T. McCready. No. 958,756; May 24; Sp. p. 5078; Gaz. vol. 154; p. 858.
Corking-machine. J. K. Lannmark. No. 973,522; Oct. 25; Sp. p. 4428; Gaz. vol. 159; p. 774.
Corking-machines, Device for feeding bottles to. H. H. W. Bergner. No. 976,540; Nov. 22; Sp. p. 5445; Gaz. vol. 160; p. 920.
Corn and bunion plaster. E. J. Ward. No. 958,199; May 17; Sp. p. 3808; Gaz. vol. 154; p. 644.
Corn cleaner and separator, Shelled-. D. B. Raworth. No. 959,260; May 24; Sp. p. 6159; Gaz. vol. 154; p. 1030.
Corn-crib. W. B. Engel. No. 950,902; Mar. 1; Sp. p. 926; Gaz. vol. 152; p. 148.
Corn-crib. R. D. Ralston. No. 956,903; May 3; Sp. p. 880; Gaz. vol. 154; p. 140.
Corn-crib. C. M. Rowland. No. 957,381; May 10; Sp. p. 1905; Gaz. vol. 154; p. 331.
Corn-cutter slitter. F. W. Smith. No. 969,210; Sept. 6; Sp. p. 146; Gaz. vol. 158; p. 23.
Corn from the cob, Machine for cutting green. S. E. and W. W. Morral. No. 975,631; Nov. 15; Sp. p. 3450; Gaz. vol. 160; p. 585.
Corn from the stalks, Machine for cutting ears of. F. M. Widerman. No. 948,601; Feb. 8; Sp. p. 1739; Gaz. vol. 151; p. 300.
Corn grader or separator, Seed-. J. A. Hafsaas. No. 977,524; Dec. 6; Sp. p. 244; Gaz. vol. 161; p. 36.
Corn-hanger. H. Anderson. No. 958,687; May 17; Sp. p. 4925; Gaz. vol. 154; p. 809.
Corn holder, Ear-. C. N. Harrington. No. 952,616; Mar. 22; Sp. p. 4384; Gaz. vol. 152; p. 801.
Corn-husker. G. F. Koch. No. 945,173; Jan. 4; Sp. p. 340; Gaz. vol. 150; p. 58.
Corn-husker. J. A. Stone. No. 948,297; Feb. 1; Sp. p. 1072; Gaz. vol. 151; p. 174.
Corn-husker. H. A. Schermerhorn. No. 964,187; July 12; Sp. p. 2526; Gaz. vol. 156; p. 416.
Corn-husker. R. H. Atkison. No. 966,641; Aug. 9; Sp. p. 1725; Gaz. vol. 157; p. 294.
Corn-husker. T. I. Ludwig. No. 975,141; Nov. 8; Sp. p. 2408; Gaz. vol. 160; p. 391.
Corn-husker. T. I. Ludwig. No. 975,142; Nov. 8; Sp. p. 2410; Gaz. vol. 160; p. 391.
Corn-husker. T. I. Ludwig. No. 975,143; Nov. 8; Sp. p. 2412; Gaz. vol. 160; p. 392.
Corn-husker. T. I. Ludwig. No. 977,205; Nov. 29; Sp. p. 6921; Gaz. vol. 160; p. 1175.
Corn-husker. J. C. Overton. No. 979,690; Dec. 27; Sp. p. 4901; Gaz. vol. 161; p. 859.
Corn husking and shredding machines, Discharge-spout for. A. Rosenthal. No. 955,357; Apr. 19; Sp. p. 3589; Gaz. vol. 153; p. 634.
Corn-husking machine. J. B. Osborn. No. 966,238; Aug. 2; Sp. p. 847; Gaz. vol. 157; p. 135.
Corn-husking machine. C. B. Kimball. No. 978,169; Dec. 13; Sp. p. 1634; Gaz. vol. 161; p. 289.
Corn-husking machines, &c., Roll for. A. P. Wolfe. No. 959,904; May 31; Sp. p. 7519; Gaz. vol. 154; p. 1270.
Corn-husking machinery. B. C. Small. No. 976,223; Nov. 22; Sp. p. 4709; Gaz. vol. 160; p. 810.
Corn-kernels, Device for removing. A. Wells. No. 961,825; June 21; Sp. p. 3286; Gaz. vol. 155; p. 586.
Corn, Machine for cutting green. J. A. Gerry. No. 954,085; Apr. 5; Sp. p. 808; Gaz. vol. 153; p. 140.
Corn-picker. B. J. Kaull. No. 958,649; May 17; Sp. p. 4849; Gaz. vol. 154; p. 796.
Corn-popper. W. A. Stine and C. A. Meals. No. 956,224; Apr. 26; Sp. p. 5516; Gaz. vol. 153; p. 962.
Corn-popper. A. Danison. No. 971,255; Sept. 27; Sp. p. 4510; Gaz. vol. 158; p. 789.
Corn-popper. F. H. Hamrick. No. 972,854; Oct. 18; Sp. p. 2923; Gaz. vol. 159; p. 520.
Corn-popper. C. Gabel. No. 974,048; Oct. 25; Sp. p. 5521; Gaz. vol. 159; p. 957.
Corn rake and elevating machine. R. G. Jenny. No. 964,471; July 12; Sp. p. 3099; Gaz. vol. 156; p. 509.
Corn-removing appliance. O. P. Müller. No. 979,329; Dec. 20; Sp. p. 4144; Gaz. vol. 161; p. 714.
Corn-sheller feeding mechanism. W. J. and L. F. Dauner. No. 974,476; Nov. 1; Sp. p. 923; Gaz. vol. 160; p. 137.
Corn-shock carrier. N. W. Lyon. No. 976,481; Nov. 22; Sp. p. 5312; Gaz. vol. 160; p. 901.
Corn-shocker. R. Schell. No. 949,718; Feb. 15; Sp. p. 4021; Gaz. vol. 151; p. 700.
Corn-shocker. I. L. Dawson. No. 949,978; Feb. 22; Sp. p. 4628; Gaz. vol. 151; p. 827.
Corn sorter, Seed-. O. L. Larson. No. 945,174; Jan. 4; Sp. p. 341; Gaz. vol. 150; p. 58.
Corn tester, Seed-. R. Hales. No. 966,742; Aug. 9; Sp. p. 1964; Gaz. vol. 157; p. 330.
Corn tester, Seed-. J. S Naylor. No. 976,485; Nov. 22; Sp. p. 5323; Gaz. vol. 160; p. 902.
Corn-topping machine. F. I. Bonham. No. 947,292; Jan. 25; Sp. p. 5068; Gaz. vol. 150; p. 857.
Corn-turner. C. I. McCreery. No. 975,265; Nov. 8; Sp. p. 2682; Gaz. vol. 160; p. 433.
Corner-bead clip. D. D. King. No. 956,364; Apr. 26; Sp. p. 5808; Gaz. vol. 153; p. 1009.
Corner-bead fastening. H. Zeglin. No. 950,886; Mar. 1; Sp. p. 896; Gaz. vol. 152; p. 143.
Corner-bead for plastering or concrete reinforcing. E. W. Norton. No. 953,391; Mar. 29; Sp. p. 6064; Gaz. vol. 152; p. 1089.
Corner beads or strips, Clip for. J. M. Shear. No. 956,439; Apr. 26; Sp p. 5963; Gaz. vol. 153; p. 1036.
Corner-bracket for show-cases, Swinging. L. A. Becker. No. 960,483; June 7; Sp. p. 486; Gaz. vol. 155; p. 81.
Corner-clamp. A. H. Stetson. No. 949,096; Feb. 15; Sp. p. 2769; Gaz. vol. 151; p. 492.
Corner-fastener. G. Bennett. No. 949,142; Feb. 15; Sp. p. 2872; Gaz. vol. 151; p. 508.
Corner-fastening. R. R. Rockwell. No. 962,528; June 28; Sp. p. 4835; Gaz. vol. 155; p. 850.
Corner-joint. D. E. Hunter. No. 959,940; May 31; Sp. p. 7611; Gaz. vol. 154; p. 1284.
Corner-locking machine. J. H. Pickett. No. 963,063; July 5; Sp. p. 70; Gaz. vol. 156; p. 14.
Cornet. H. G. Neely. No. 966,700; Aug. 9; Sp. p. 1838; Gaz. vol. 157; p. 314.
Cornet-mouthpiece. H. L. Lenherr. No 949,021; Feb. 15; Sp. p. 2629; Gaz. vol. 151; p. 469.
Cornet-mouthpiece. L. E. Taylor. No. 962,479; June 28; Sp. p. 4729; Gaz. vol. 155; p. 834.
Corset. H. C. Bayer. No. 951,674; Mar. 8; Sp. p. 2461; Gaz. vol. 152; p. 426.
Corset. A. Benjamin. No. 953,812; Apr. 5; Sp. p. 264; Gaz. vol. 153; p. 47.
Corset. H. W. Gilbert and E. M. Martin. No. 956,957; May 3; Sp. p. 1000; Gaz. vol. 154; p. 157.
Corset. A. J. Lecoutre. No. 962,363; June 21; Sp. p. 4453; Gaz. vol. 155; p. 768.
Corset. J. M. Liebermann. No. 963,026; June 28; Sp. p. 5831; Gaz. vol. 155; p. 1021.
Corset. J. E. Doolittle. No. 970,997; Sept. 20; Sp. p. 3947; Gaz. vol. 158; p. 674.
Corset. H. T. Sherwood. No. 976,608; Nov. 22; Sp. p. 5580; Gaz. vol. 160; p. 943.
Corset, Apparel-. D. Kops. No. 946,231; Jan. 11; Sp. p. 2684; Gaz. vol. 150; p. 446.
Corset, Apparel-. D. Kops. No. 946,232; Jan. 11; Sp. p. 2687; Gaz. vol. 150; p. 447.
Corset, Apparel-. D. Kops. No. 967,645; Aug. 16; Sp. p. 3850; Gaz. vol. 157; p. 661.
Corset, Apparel-. D. Kops. No. 968,365; Aug. 23; Sp. p. 5385; Gaz. vol. 157; p. 929.
Corset, Apparel-. D. Kops. No. 975,771; Nov. 15; Sp. p. 3755; Gaz. vol. 160; p. 632.
Corset, Apparel-. D. Kops. No. 975,772; Nov. 15; Sp. p. 3756; Gaz. vol. 160; p. 633.
Corset attachment. J. A. Dennis. No. 967,342; Aug. 16; Sp. p. 3227; Gaz. vol. 157; p. 559.
Corset-clamp. S. E. Florsheim. No. 967,627; Aug. 16; Sp. p. 3817; Gaz. vol. 157; p. 655.
Corset-clasp. M. W. Hoffmann. No. 946,362; Jan. 11; Sp. p. 2966; Gaz. vol. 150; p. 492.
Corset-clasp. E. B. Howland. No. 977,390; Nov. 29; Sp. p. 7291; Gaz. vol. 160; p. 1238.
Corset-cover and bust-supporter, Combined. J. Marx and E. Maier. No. 957,617; May 10; Sp. p. 2374; Gaz. vol. 154; p. 412.
Corset-stay. J. H. Wilson. No. 952,088; Mar. 15; Sp. p. 3292; Gaz. vol. 152; p. 593.
Corset steels and bones, Shield for. G. L. Bard. No. 972,984; Oct. 18; Sp. p. 3257; Gaz. vol. 159; p. 567.
Cosmoscope. J. E. Williams. No. 957,529; May 10; Sp. p. 2205; Gaz. vol. 154; p. 381.

Costumer. J. C. Wilson. No. 948,537; Feb. 8; Sp. p. 1589; Gaz. vol. 151; p. 280.
Cot and the like for ships, Self-leveling. A. L. Wertheim. No. 967,278; Aug. 16; Sp. p. 3094; Gaz. vol. 157; p. 536.
Cot, bunk, couch, and the like for use on shipboard, Self-leveling. A. L. Wertheim. No. 963,966; July 12; Sp. p. 2087; Gaz. vol. 156; p. 341.
Cot, Collapsible. R. C. Rasmussen. No. 952,214; Mar. 15; Sp. p. 3531; Gaz. vol. 152; p. 635.
Cot for attachment to beds. H. A. Atkinson. No. 961,669; June 14; Sp. p. 2949; Gaz. vol. 155; p. 510.
Cot-frame. R. H. Shelton. No. 947,133; Jan. 18; Sp. p. 4690; Gaz. vol. 150; p. 774.
Cot-holder. M. R. Rodrigues. No. 958,895; May 24; Sp. p. 5428; Gaz. vol. 154; p. 909.
Cottage or tent-house. P. A. Kessler. No. 968,481; Aug. 23; Sp. p. 5610; Gaz. vol. 157; p. 969.
Cotton and beet chopper and cultivator. R. B. Morris and W. Kennedy. No. 958,153; May 17; Sp. p. 3715; Gaz. vol. 154; p. 628.
Cotton and lint condenser. A. J. Aderhold. No. 947,220; Jan. 25; Sp. p. 4885; Gaz. vol. 150; p. 833.
Cotton-batting and product of the same, Manufacturing. E. W. Thompson. No. 970,971; Sept. 20; Sp. p. 3894; Gaz. vol. 158; p. 666.
Cotton-blocking attachment. J. P. Horner. No. 978,751; Dec. 13; Sp. p. 2889; Gaz. vol. 161; p. 489.
Cotton checker and cultivator. R. Hamilton. No. 946,354; Jan. 11; Sp. p. 2950; Gaz. vol. 150; p. 490.
Cotton checker and cultivator. R. Hamilton. No. 946,509; Jan. 11; Sp. p. 3394; Gaz. vol. 150; p. 543.
Cotton-chopper. J. W. Howell. No. 946,673; Jan. 18; Sp. p. 3715; Gaz. vol. 150; p. 621.
Cotton-chopper. R. L. Hartsell. No. 947,638; Jan. 25; Sp. p. 5872; Gaz. vol. 150; p. 975.
Cotton-chopper. J. T. Stepleton. No. 947,690; Jan. 25; Sp. p. 5961; Gaz. vol. 150; p. 992.
Cotton-chopper. T. K. Boggs. No. 948,495; Feb. 8; Sp. p. 1512; Gaz. vol. 151; p. 267.
Cotton-chopper. C. G. Hanes. No. 950,481; Mar. 1; Sp. p. 37; Gaz. vol. 152; p. 8.
Cotton-chopper. M. J. Bunnell. No. 950,836; Mar. 1; Sp. p. 804; Gaz. vol. 152; p. 128.
Cotton-chopper. O. S. Snow. No. 950,966; Mar. 1; Sp. p. 1057; Gaz. vol. 152; p. 169.
Cotton-chopper. J. W. Martin. No. 951,405; Mar. 8; Sp. p. 1932; Gaz. vol. 152; p. 335.
Cotton-chopper. G. P. Arthur. No. 951,876; Mar. 15; Sp. p. 2891; Gaz. vol. 152; p. 523.
Cotton-chopper. R. R. Gibson. No. 952,007; Mar. 15; Sp. p. 3146; Gaz. vol. 152; p. 566.
Cotton-chopper. W. Dittrich. No. 952,310; Mar. 15; Sp. p. 3730; Gaz. vol. 152; p. 668.
Cotton-chopper. J. R. Getsinger. No. 952,443; Mar. 22; Sp. p. 3990; Gaz. vol. 152; p. 740.
Cotton-chopper. J. J. Ludwick. No. 952,826; Mar. 22; Sp. p. 4850; Gaz. vol. 152; p. 873.
Cotton-chopper. R. M. Garner. No. 953,264; Mar. 29; Sp. p. 5776; Gaz. vol. 152; p. 1046.
Cotton-chopper. E. E. Thomas. No. 954,149; Apr. 5; Sp. p. 951; Gaz. vol. 153; p. 163.
Cotton-chopper. T. H. Ellis. No. 954,566; Apr. 12; Sp. p. 1854; Gaz. vol. 153; p. 331.
Cotton-chopper. L. A. Lang. No. 955,085; Apr. 12; Sp. p. 3000; Gaz. vol. 153; p. 509.
Cotton-chopper. M. Caldwell. No. 955,115; Apr. 12; Sp. p. 3048; Gaz. vol. 153; p. 517.
Cotton-chopper. R. T. Simmons. No. 959,031; May 24; Sp. p. 5671; Gaz. vol. 154; p. 954.
Cotton-chopper. J. J. Vickers. No. 961,181; June 14; Sp. p. 1900; Gaz. vol. 155; p. 345.
Cotton-chopper. J. A. Grace. No. 965,104; July 19; Sp. p. 4552; Gaz. vol. 156; p. 759.
Cotton-chopper. J. Deschamp. No. 965,572; July 26; Sp. p. 5583; Gaz. vol. 156; p. 950.
Cotton-chopper. R. R. Gibson. No. 965,888; Aug. 2; Sp. p. 92; Gaz. vol. 157; p. 15.
Cotton-chopper. T. A. Rosamond. No. 966,057; Aug. 2; Sp. p. 467; Gaz. vol. 157; p. 75.
Cotton-chopper. B. J. Lowman. No. 966,845; Aug. 9; Sp. p. 2200; Gaz. vol. 157; p. 362.
Cotton-chopper. G. H. Hancock. No. 967,373; Aug. 16; Sp. p. 3289; Gaz. vol. 157; p. 570.
Cotton-chopper. J. E. and H. L. Campbell. No. 968,831; Aug. 30; Sp. p. 6389; Gaz. vol. 157; p. 1114.
Cotton-chopper. C. W. Weber. No. 969,757; Sept. 6; Sp. p. 1299; Gaz. vol. 158; p. 208.
Cotton-chopper. S. Stallings. No. 970,968; Sept. 20; Sp. p. 3890; Gaz. vol. 158; p. 665.
Cotton-chopper. T. J. Smith. No. 971,698; Oct. 4; Sp. p. 389; Gaz. vol. 159; p. 68.
Cotton-chopper. T. W. Felton. No. 972,836; Oct. 18; Sp. p. 2879; Gaz. vol. 159; p. 513.
Cotton-chopper. H. M. Paris. No. 973,379; Oct. 18; Sp. p. 4121; Gaz. vol. 159; p. 703.
Cotton-chopper. A. A., Jr., and D. F. Douglass. No. 974,247; Nov. 1; Sp. p. 372; Gaz. vol. 160; p. 54.
Cotton-chopper. B. F. Mason. No. 976,817; Nov. 22; Sp. p. 6000; Gaz. vol. 160; p. 1014.
Cotton-chopper. R. L. Darden. No. 979,264; Dec. 20; Sp. p. 4027; Gaz. vol. 161; p. 693.
Cotton-chopper. J. W. Garrett. No. 979,463; Dec. 27; Sp. p. 4414; Gaz. vol. 161; p. 781.
Cotton chopper and cultivator. G. C. Hammonds. No. 952,447; Mar. 22; Sp. p. 4002; Gaz. vol. 152; p. 742.
Cotton chopper and cultivator. W. Bauman. No. 974,015; Oct. 25; Sp. p. 5460; Gaz. vol. 159; p. 946.
Cotton chopper and cultivator, Combined. J. F. Hughes. No. 967,921; Aug. 23; Sp. p. 4414; Gaz. vol. 157; p. 777.
Cotton chopper and cultivator, Combined. C. C. Carter. No. 972,332; Oct. 11; Sp. p. 1771; Gaz. vol. 159; p. 311.
Cotton chopper and cultivator, Combined. J. R. Stovall. No. 977,340; Nov. 29; Sp. p. 7180; Gaz. vol. 160; p. 1221.
Cotton-chopper attachment. H. S. Berry. No. 976,842; Nov. 29; Sp. p. 6074; Gaz. vol. 160; p. 1047.
Cotton chopper or cultivator. M. C. Burch. No. 955,756; Apr. 19; Sp. p. 4462; Gaz. vol. 153; p. 770.
Cotton-chopping machine. J. M. Martin. No. 959,774; May 31; Sp. p. 7223; Gaz. vol. 154; p. 1226.
Cotton-cleaner. T. W. Felton. No. 949,627; Feb. 15; Sp. p. 3853; Gaz. vol. 151; p. 671.
Cotton-cleaner. A. L. Treese. No. 978,237; Dec. 13; Sp. p. 1778; Gaz. vol. 161; p. 312.
Cotton cleaning and separating machine. J. S. Lyle. No. 969,762; Sept. 6; Sp. p. 1322; Gaz. vol. 158; p. 210.
Cotton-cleaning machine. G. A. Humason. No. 959,746; May 31; Sp. p. 7171; Gaz. vol. 154; p. 1216.
Cotton-cleaning mechanism. G. L. Schmidt. No. 967,446; Aug. 16; Sp. p. 3444; Gaz. vol. 157; p. 593.
Cotton-folder. F. Phelps. No. 955,542; Apr. 19; Sp. p. 3972; Gaz. vol. 153; p. 697.
Cotton from the boll, Apparatus for picking. C. C. Earle. No. 970,695; Sept. 20; Sp. p. 3333; Gaz. vol. 158; p. 572.
Cotton-gatherer. R. M. Ayers. No. 971,513; Oct. 4; Sp. p. 3; Gaz. vol. 159; p. 3.
Cotton-gathering machine. W. W. Edge and K. F. Campbell. No. 954,382; Apr. 5; Sp. p. 1451; Gaz. vol. 153; p. 241.
Cotton-gin. J. L. McGinn, Jr. No. 947,214; Jan. 18; Sp. p. 4864; Gaz. vol. 150; p. 802.
Cotton-gin. J. C. Boesch and J. H. G. von Oven. No. 948,810; Feb. 8; Sp. p. 2192; Gaz. vol. 151; p. 372.
Cotton-gin. E. Lumpkin. No. 961,624; June 14; Sp. p. 2863; Gaz. vol. 155; p. 495.
Cotton-gin. T. D. Fallon. No. 970,482; Sept. 20; Sp. p. 2856; Gaz. vol. 158; p. 499.
Cotton-gin. J. Brandon. No. 971,720; Oct. 4; Sp. p. 437; Gaz. vol. 159; p. 76.
Cotton-gin. W. W. James. No. 977,194; Nov. 29; Sp. p. 6899; Gaz. vol. 160; p. 1172.
Cotton gin and cleaner, Combined. W. B. Turman. No. 969,924; Sept. 13; Sp. p. 1685; Gaz. vol. 158; p. 290.
Cotton-gin-feeder gear mechanism. T. S. Grimes. No. 978,877; Dec. 20; Sp. p. 3126; Gaz. vol. 161; p. 555.
Cotton-gins, Air-blast apparatus for. O. W. McDonald. No. 976,671; Nov. 22; Sp. p. 5703; Gaz. vol. 160; p. 965.
Cotton-ginning machine. H. W. Ligon. No. 952,825; Mar. 22; Sp. p. 4847; Gaz. vol. 152; p. 872.
Cotton-ginning machinery. R. E. Wilson. No. 961,393; June 14; Sp. p. 2363; Gaz. vol. 155; p. 418.
Cotton-grabot cleaner. J. T. Rodgers. No. 953,296; Mar. 29; Sp. p. 5844; Gaz. vol. 152; p. 1056.
Cotton-grader. L. A. Greene. No. 952,802; Mar. 22; Sp. p. 4802; Gaz. vol. 152; p. 864.
Cotton huller and cleaner. J. L. Hart. No. 962,343; June 21; Sp. p. 4421; Gaz. vol. 155; p. 762.
Cotton opening and ginning machine. F. J. Mauborgne. No. 969,176; Sept. 6; Sp. p. 67; Gaz. vol. 158; p. 12.
Cotton-packer. A. S. Dixon. No. 960,850; June 7; Sp. p. 1230; Gaz. vol. 155; p. 205.
Cotton-packer, Automatic. W. B. House. No. 949,767; Feb. 22; Sp. p. 4152; Gaz. vol. 151; p. 751.
Cotton-picker. H. T. Noble. No. 947,559; Jan. 25; Sp. p. 5704; Gaz. vol. 150; p. 947.
Cotton-picker. F. M. Dannelly. No. 951,059; Mar. 1; Sp. p. 1203; Gaz. vol. 152; p. 198.
Cotton-picker. F. J. Briggs. No. 966,992; Aug. 9; Sp. p. 2501; Gaz. vol. 157; p. 411.
Cotton-picker. L. C. Stukenborg. No. 978,341; Dec. 13; Sp. p. 2003; Gaz. vol. 161; p. 349.
Cotton-picker. C. S. Matthiessen. No. 979,184; Dec. 20; Sp. p. 3847; Gaz. vol. 161; p. 665.
Cotton-picker, Manually-operated. N. Bowditch. No. 972,324; Oct. 11; Sp. p. 1756; Gaz. vol. 159; p. 309.
Cotton-pickers, Split-lap preventer for. H. R. Whitehead. No. 957,450; May 10; Sp. p. 2046; Gaz. vol. 154; p. 355.
Cotton-picking machine. W. W. Farnsworth. No. 947,483; Jan. 25; Sp. p. 5548; Gaz. vol. 150; p. 922.
Cotton-picking machine. S. S. Thomas. No. 948,619; Feb. 8; Sp. p. 1779; Gaz. vol. 151; p. 306.
Cotton-picking machine. F. Prestwich. No. 959,603; May 31; Sp. p. 6875; Gaz. vol. 154; p. 1170.
Cotton-picking machine. A. G. Kinyon. No. 968,856; Aug. 30; Sp. p. 6438; Gaz. vol. 157; p. 1122.
Cotton-picking machine. H. J. Stoops. No. 969,419; Sept. 6; Sp. p. 573; Gaz. vol. 158; p. 92.

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Cotton-picking machine. J. F. Appleby. No. 972,795; Oct. 18; Sp. p. 2788; Gaz. vol. 159; p. 498.
Cotton-picking machine. J. F. Appleby. No. 977,155; Nov. 29; Sp. p. 6808; Gaz. vol. 160; p. 1157.
Cotton-picking sack and holder. R. B. Montgomery. No. 950,452; Feb. 22; Sp. p. 5621; Gaz. vol. 151; p. 986.
Cotton-press. F. F. Breihan. No. 946,573; Jan. 18; Sp. p. 3500; Gaz. vol. 150; p. 589.
Cotton-press. F. F. Breihan. No. 951,300; Mar. 8; Sp. p. 1697; Gaz. vol. 152; p. 300.
Cotton-scraper. O. L. Ekwurzel and J. D. De Ramus. No. 967,005; Aug. 9; Sp. p. 2525; Gaz. vol. 157; p. 415.
Cotton-separator. W. A. Patterson. No. 951,218; Mar. 8; Sp. p. 1521; Gaz. vol. 152; p. 274.
Cotton-separator. W. A. Patterson. No. 979,792; Dec. 27; Sp. p. 5151; Gaz. vol. 161; p. 893.
Cotton-topper. L. T. Bickers and T. J. Lee. No. 951,796; Mar. 15; Sp. p. 2720; Gaz. vol. 152; p. 497.
Cotton-wadding. T. G. Paddack. No. 968,681; Aug. 30; Sp. p. 6097; Gaz. vol. 157; p. 1066.
Couch. W. Diemer. No. 967,890; Aug. 23; Sp. p. 4339; Gaz. vol. 157; p. 766.
Couch. M. Thomson. No. 979,049; Dec. 20; Sp. p. 3525; Gaz. vol. 161; p. 617.
Couch, Adjustable collapsible folding hammock-. H. L. Hohlfield. No. 947,545; Jan. 25; Sp. p. 5677; Gaz. vol. 150; p. 943.
Couch and bed, Combined. B. C. Poston. No. 960,195; May 31; Sp. p. 8155; Gaz. vol. 154; p. 1372.
Couch and bed, Combined. D. T. Owen. No. 962,580; June 28; Sp. p. 4960; Gaz. vol. 155; p. 869.
Couch and bed spring equalizer. G. R. Beckwith and J. W. Bacon. No. 978,105; Dec. 6; Sp. p. 1467; Gaz. vol. 161; p. 237.
Couch, Convertible. A. F. Old and F. Bennett. No. 954,579; Apr. 12; Sp. p. 1878; Gaz. vol. 153; p. 336.
Couch, Convertible. J. H. Dyett and C. Hulpian. No. 962,948; June 28; Sp. p. 5679; Gaz. vol. 155; p. 995.
Couch, Foldable. C. H. Mullen. No. 968,386; Aug. 23; Sp. p. 5431; Gaz. vol. 157; p. 936.
Couch, Folding. D. C. Travis. No. 945,821; Jan. 11; Sp. p. 1808; Gaz. vol. 150; p. 303.
Couch, Folding. G. G. Powers. No. 973,561; Oct. 25; Sp. p. 4506; Gaz. vol. 159; p. 787.
Couch, Folding. G. G. Powers. No. 973,562; Oct. 25; Sp. p. 4509; Gaz. vol. 159; p. 787.
Couch-locking mechanism, Folding-. H. W. Henneberg. No. 969,104; Aug. 30; Sp. p. 6941; Gaz. vol. 157; p. 1208.
Couch-locking mechanism, Folding-. H. W. Henneberg. No. 969,105; Aug. 30; Sp. p. 6944; Gaz. vol. 157; p. 1209.
Couch or bed. J. W. S. and W. P. Jones. No. 966,450; Aug. 9; Sp. p. 1277; Gaz. vol. 157; p. 230.
Couch or bed, Extension. W. M. Taylor. No. 975,480; Nov. 15; Sp. p. 3123; Gaz. vol. 160; p. 534.
Couch or framed hammock. I. E. Palmer. No. 953,392; Mar. 29; Sp. p. 6065; Gaz. vol. 152; p. 1090.
Couch, Reclining-. C. A. Lindner. No. 948,735; Feb. 8; Sp. p. 2022; Gaz. vol. 151; p. 347.
Couch, Suspension-. J. B. Patterson. No. 959,795; May 31; Sp. p. 7277; Gaz. vol. 154; p. 1233.
Couch, Suspension-. J. B. Patterson. No. 973,382; Oct. 18; Sp. p. 4125; Gaz. vol. 159; p. 704.
Counter. C. H. Veeder. No. 950,546; Mar. 1; Sp. p. 173; Gaz. vol. 152; p. 29.
Counter and stacker. E. L. Feeman. No. 974,648; Nov. 1; Sp. p. 1302; Gaz. vol. 160; p. 201.
Counter, Automatic stock-. P. H. Davis. No. 950,279; Feb. 22; Sp. p. 5310; Gaz. vol. 151; p. 931.
Counter device. F. E. Northrop. No. 948,768; Feb. 8; Sp. p. 2110; Gaz. vol. 151; p. 358.
Counter for food and beverages. W. Amenda. No. 974,622; Nov. 1; Sp. p. 1246; Gaz. vol. 160; p. 191.
Counter-guard bracket. J. B. Monette. No. 971,300; Sept. 27; Sp. p. 4582; Gaz. vol. 158; p. 802.
Counter-holder. C. E. Raney. No. 955,995; Apr. 26; Sp. p. 4993; Gaz. vol. 153; p. 883.
Counting apparatus for voting-machines and for other purposes. D. L. Newcomb. No. 967,226; Aug. 16; Sp. p. 2997; Gaz. vol. 157; p. 518.
Counting apparatus, Thread-. A. and L. Chronik. No. 970,795; Sept. 20; Sp. p. 3562; Gaz. vol. 158; p. 609.
Counting, integrating, and tally device, Combined. D. McDonald. No. 962,162; June 21; Sp. p. 4041; Gaz. vol. 155; p. 702.
Counting-machine. A. M. Hull. No. 964,782; July 19; Sp. p. 3914; Gaz. vol. 156; p. 651.
Counting-off machine. G. F. McAdams. No. 954,875; Apr. 12; Sp. p. 2591; Gaz. vol. 153; p. 441.
Counterbalancing device. O. S. Beyer. No. 971,585; Oct. 4; Sp. p. 159; Gaz. vol. 159; p. 29.
Counterbalancing mechanism. A. T. Prescott. No. 980,126; Dec. 27; Sp. p. 5882; Gaz. vol. 161; p. 1005.
Counterbore. J. F. LeBaron. No. 967,789; Aug. 16; Sp. p. 4141; Gaz. vol. 157; p. 709.
Countersink. J. E. Freyman. No. 975,944; Nov. 15; Sp. p. 4098; Gaz. vol. 160; p. 692.

Coupling: *See* Adjustable coupling; Air-coupling; Air and steam coupling; Air-brake coupling; Air-brake-pipe coupling; Air, steam, or hot-water coupling; Automatic coupling; Car-coupling; Chain-coupling; Double and swingle tree coupling; Drill-coupling; Electric-wire coupling; Electrical coupling; Electrolier-coupling; Emergency-coupling; Engine-coupling; Evener-coupling; Faucet-coupling; Fence-coupling; Fire-hydrant coupling; Flexible coupling; Friction-coupling; Hay-loader coupling; Hose-coupling; Hydraulic coupling; Joint-coupling; Pipe-coupling; Pipe or hose coupling; Piston-coupling; Pneumatic coupling; Pump-coupling; Pump-rod coupling; Quick coupling; Railway-coupling; Rod-coupling; Shade-holder coupling; Shaft-coupling; Stovepipe-coupling; Thill-coupling; Threshing-machine and vehicle coupling; Tool-coupling; Trace-coupling; Train-service coupling; Trip-coupling; Universal coupling; Watertight coupling; Wheel-coupling; Whiffletree-coupling; Windmill-coupling.
Coupling. E. E. Gold. No. 947,280; Jan. 25; Sp. p. 5049; Gaz. vol. 150; p. 854.
Coupling. W. C. F. Zimmerman. No. 947,466; Jan. 25; Sp. p. 5481; Gaz. vol. 150; p. 916.
Coupling. E. E. Gold. No. 947,487; Jan. 25; Sp. p. 5559; Gaz. vol. 150; p. 923.
Coupling. W. F. Baum. No. 953,506; Mar. 29; Sp. p. 6304; Gaz. vol. 152; p. 1130.
Coupling. E. T. Greenfield. No. 956,076; Apr. 26; Sp. p. 5177; Gaz. vol. 153; p. 912.
Coupling. E. T. Greenfield. No. 956,077; Apr. 26; Sp. p. 5179; Gaz. vol. 153; p. 912.
Coupling. F. C. Bowles. No. 956,753; May 3; Sp. p. 547; Gaz. vol. 154; p. 87.
Coupling. E. Marek. No. 957,695; May 10; Sp. p. 2536; Gaz. vol. 154; p. 439.
Coupling. H. T. Krakau. No. 964,790; July 19; Sp. p. 3929; Gaz. vol. 156; p. 653.
Coupling. H. T. Krakau. No. 964,791; July 19; Sp. p. 3929; Gaz. vol. 156; p. 653.
Coupling. L. Langhaar. No. 967,395; Aug. 16; Sp. p. 3350; Gaz. vol. 157; p. 578.
Coupling. B. F. Sparr. No. 971,321; Sept. 27; Sp. p. 4623; Gaz. vol. 158; p. 809.
Coupling. J. Froggatt and C. Stacey. No. 974,254; Nov. 1; Sp. p. 383; Gaz. vol. 160; p. 56.
Coupling-bolt. F. D. Ogden. No. 980,119; Dec. 27; Sp. p. 5867; Gaz. vol. 161; p. 1002.
Coupling device. J. J. Barker. No. 961,283; June 14; Sp. p. 2127; Gaz. vol. 155; p. 381.
Coupling device. J. H. Beltz. No. 962,733; June 28; Sp. p. 5277; Gaz. vol. 155; p. 921.
Coupling device, Interchange. R. E. Adreon. No. 950,812; Mar. 1; Sp. p. 755; Gaz. vol. 152; p. 120.
Coupling-hook, Auxiliary. D. T. Goodman. No. 962,634; June 28; Sp. p. 5069; Gaz. vol. 155; p. 886.
Coupling-knuckle-pin retainer. E. P. Kinne. No. 949,772; Feb. 22; Sp. p. 4164; Gaz. vol. 151; p. 753.
Coupling or mortise bracket. J. A. Kimball. No. 963,585; July 5; Sp. p. 1252; Gaz. vol. 156; p. 192.
Coupling-pin-operating device. J. S. Shepherd. No. 978,406; Dec. 13; Sp. p. 2140; Gaz. vol. 161; p. 372.
Couplings, Apparatus for tapping. J. H. Baker and D. Anderson. No. 947,727; Jan. 25; Sp. p. 6029; Gaz. vol. 150; p. 1004.
Couplings, Guiding and locking means for M. C. B. W. T. Van Dorn. No. 955,022; Apr. 12; Sp. p. 2897; Gaz. vol. 153; p. 490.
Coupon-delivery machine. G. W. Stambaugh. No. 976,517; Nov. 22; Sp. p. 5374; Gaz. vol. 160; p. 912.
Course-indicator. H. H. Nebanas. No. 955,347; Apr. 19; Sp. p. 3565; Gaz. vol. 153; p. 630.
Cover. F. E. Teves. No. 964,334; July 12; Sp. p. 2831; Gaz. vol. 156; p. 467.
Cover. H. M. Long. No. 967,211; Aug. 16; Sp. p. 2965; Gaz. vol. 157; p. 513.
Cover-blank and box. T. A. Riley. No. 947,850; Feb. 1; Sp. p. 156; Gaz. vol. 151; p. 26.
Cover-clamp. S. E. Lofland. No. 953,536; Mar. 29; Sp. p. 6373; Gaz. vol. 152; p. 1141.
Cover-fastener. F. W. Garrett. No. 956,524; May 3; Sp. p. 29; Gaz. vol. 154; p. 8.
Cover fastener, Receptacle-. H. Jacobson. No. 962,898; June 28; Sp. p. 5595; Gaz. vol. 155; p. 979.
Cover for culinary utensils. E. J. Hansen. No. 968,557; Aug. 30; Sp. p. 5799; Gaz. vol. 157; p. 1021.
Cover for flesh-contact implements, Sanitary. G. H. Coates. No. 965,564; July 26; Sp. p. 5567; Gaz. vol. 156; p. 947.
Cover for pads, books, &c., Detachable. O. Loewenbach. No. 964,668; July 19; Sp. p. 3569; Gaz. vol. 156; p. 611.
Cover-raising device. J. A. Sebring. No. 963,079; July 5; Sp. p. 108; Gaz. vol. 156; p. 19.
Cover, Receptacle-. B. J. Levin. No. 962,710; June 28; Sp. p. 5225; Gaz. vol. 155; p. 913.
Covers, Means for removing. D. R. Levin. No. 975,698; Nov. 15; Sp. p. 3603; Gaz. vol. 160; p. 607.
Cow-tail holder. A. A. C. Fahlstrom and W. Richards. No. 945,503; Jan. 4; Sp. p. 1075; Gaz. vol. 150; p. 166.
Cow-tail holder. C. H. Perkett. No. 972,021; Oct. 4; Sp. p. 1122; Gaz. vol. 159; p. 188.

Alphabetical list of inventions—Continued.

Cowl for ventilating and other purposes. S. Ewart. No. 979,390; Dec. 20; Sp. p. 4249; Gaz. vol. 161; p. 732.
Crab-float. M. A. Evans. No. 972,175; Oct. 11; Sp. p. 1444; Gaz. vol. 159; p. 258.
Crabs and other crustacea, Apparatus for picking. C. F. Greiner. No. 965,706; July 26; Sp. p. 5863; Gaz. vol. 156; p. 996.
Cracker-box. A. L. Plotner. No. 947,498; Jan. 25; Sp. p. 5584; Gaz. vol. 150; p. 928.
Cracker-jar. H. C. Warren. No. 961,470; June 14; Sp. p. 2533; Gaz. vol. 155; p. 444.
Cradle. C. P. De Bosco. No. 946,206; Jan. 11; Sp. p. 2628; Gaz. vol. 150; p. 437.
Cradle. L. Vargas. No. 950,312; Feb. 22; Sp. p. 5367; Gaz. vol. 151; p. 942.
Cradle. J. Cliff. No. 953,897; Apr. 5; Sp. p. 423; Gaz. vol. 153; p. 77.
Cradle. F. Brown. No. 953,986; Apr. 5; Sp. p. 602; Gaz. vol. 153; p. 108.
Cradle, Folding. A. W. H. Raettig. No. 962,587; June 28; Sp. p. 4974; Gaz. vol. 155; p. 871.
Crane. S. Voss. No. 952,850; Mar. 22; Sp. p. 4896; Gaz. vol. 152; p. 881.
Crane. H. W. Jacobs. No. 956,856; May 3; Sp. p. 781; Gaz. vol. 154; p. 123.
Crane. C. Pauli. No. 963,388; July 5; Sp. p. 855; Gaz. vol. 156; p. 126.
Crane-controller. T. E. Barnum. No. 959,909; May 31; Sp. p. 7533; Gaz. vol. 154; p. 1273.
Crane, Floating. A. Bode. No. 948,304; Feb. 8; Sp. p. 1089; Gaz. vol. 151; p. 201.
Crane, Horn-. A. S. Marten. No. 972,886; Oct. 18; Sp. p. 3018; Gaz. vol. 159; p. 532.
Crane, Jib-. H. N. Wylie. No. 970,773; Sept. 20; Sp. p. 3512; Gaz. vol. 158; p. 601.
Crane, Ladle-. C. L. Taylor. No. 967,857; Aug. 16; Sp. p. 4273; Gaz. vol. 157; p. 731.
Crane, Ladle-. H. A. Seymour. No. 974,196; Nov. 1; Sp. p. 205; Gaz. vol. 160; p. 34.
Crane, Ladle-. C. L. Taylor. No. 974,205; Nov. 1; Sp. p. 233; Gaz. vol. 160; p. 38.
Crane, Ladle-. C. L. Taylor. No. 974,206; Nov. 1; Sp. p. 235; Gaz. vol. 160; p. 38.
Crane, Luffing-. R. Carey. No. 951,433; Mar. 8; Sp. p. 1975; Gaz. vol. 152; p. 344.
Crane, Overhead traveling. C. L. Taylor. No. 968,813; Aug. 30; Sp. p. 6357; Gaz. vol. 157; p. 1108.
Crane, Overhead traveling. C. L. Taylor. No. 968,814; Aug. 30; Sp. p. 6359; Gaz. vol. 157; p. 1109.
Crane, Pontoon-. G. H. Hulett. No. 960,224; May 31; Sp. p. 8208; Gaz. vol. 154; p. 1382.
Cranes, Bridge for overhead traveling. C. L. Taylor. No. 970,572; Sept 20; Sp. p. 3048; Gaz. vol. 158; p. 530.
Cranes, Counterweight for pontoon-. G. H. Hulett. No. 960,225; May 31; Sp. p. 8210; Gaz. vol. 154; p. 1382.
Crank. J. Drury. No. 958,104; May 17; Sp. p. 3616; Gaz. vol. 154; p. 610.
Crank, Adjustable. T. S. White. No. 963,016; June 28; Sp. p. 5810; Gaz. vol. 155; p. 1017.
Crank and yoke connection. H. P. Wellman. No. 968,437; Aug. 23; Sp. p. 5527; Gaz. vol. 157; p. 954.
Crank attachment, Adjustable. T. E. Lutz. No. 971,764; Oct. 4; Sp. p. 533; Gaz. vol. 159; p. 93.
Crank, Extension-. A. C. Zierath. No. 977,252; Nov. 29; Sp. p. 7007; Gaz. vol. 160; p. 1191.
Crank-shaft and bearing therefor. E. A. Nelson. No. 974,697; Nov. 1; Sp. p. 1406; Gaz. vol. 160; p. 218.
Cranking device. R. H. Clifton. No. 972,097; Oct. 4; Sp. p. 1258; Gaz. vol. 159; p. 213.
Crate. H. H. Cummer. No. 947,625; Jan. 25; Sp. p. 5851; Gaz. vol. 150; p. 971.
Crate. F. L. Weigand. No. 955,027; Apr. 12; Sp. p. 2906; Gaz. vol. 153; p. 492.
Crate. E. F. Ribbeck. No. 960,401; June 7; Sp. p. 335; Gaz. vol. 155; p. 56.
Crate. W. Beehler. No. 960,484; June 7; Sp. p. 488; Gaz. vol. 155; p. 82.
Crate. E. L. Walker. No. 975,661; Nov. 15; Sp. p. 3531; Gaz. vol. 160; p. 596.
Crate and show-bench. W. O. Roy. No. 960,199; May 31; Sp. p. 8162; Gaz. vol. 154; p. 1373.
Crate, box, &c., Collapsible. J. A. Coffey and C. C. Bowen. No. 962,745; June 28; Sp. p. 5301; Gaz. vol. 155; p. 925.
Crate, Collapsible. L. M. Leibowitz. No. 958,749; May 24; Sp. p. 5064; Gaz. vol. 154; p. 856.
Crate, Collapsible. A. Buchalka. No. 964,207; July 12; Sp. p. 2567; Gaz. vol. 156; p. 423.
Crate, Collapsible. C. R. Brown. No. 968,028; Aug. 23; Sp. p. 4653; Gaz. vol. 157; p. 812.
Crate, Collapsible. B. C. Rockwell. No. 972,925; Oct. 18; Sp. p. 3124; Gaz. vol. 159; p. 546.
Crate, Collapsible. H. B. Walter. No. 976,958; Nov. 29; Sp. p. 6363; Gaz. vol. 160; p. 1089.
Crate, Collapsible shipping-. W. J. Robertson. No. 977,969; Dec. 6; Sp. p. 1192; Gaz. vol. 161; p. 190.
Crate, Egg-. D. O. Smith. No. 965,042; July 19; Sp. p. 4435; Gaz. vol. 156; p. 738.
Crate, Egg-. L. T. Nichols and H. E. Skeels. No. 968,592; Aug. 30; Sp. p. 5863; Gaz. vol. 157; p. 1034.
Crate fastening and handling device, Egg-. C. F. A. Kellogg. No. 967,525; Aug. 16; Sp. p. 3619; Gaz. vol. 157; p. 621.
Crate filler, Egg-. A. Nelson. No. 979,192; Dec. 20; Sp. p. 3862; Gaz. vol. 161; p. 668.
Crate, Folding. B. K. Boyd. No. 951,902; Mar. 15; Sp. p. 2943; Gaz. vol. 152; p. 532.
Crate, Folding. E. A. Ableman. No. 952,492; Mar. 22; Sp. p. 4112; Gaz. vol. 152; p. 757.
Crate, Folding. A. C. Michael. No. 954,322; Apr. 5; Sp. p. 1337; Gaz. vol. 153; p. 221.
Crate, Folding. A. J. Parmeter. No. 957,796; May 10; Sp. p. 2752; Gaz. vol. 154; p. 471.
Crate, Folding. E. C. Rose. No. 964,121; July 12; Sp. p. 2410; Gaz. vol. 156; p. 396.
Crate, Folding. W. E. Thrasher. No. 970,279; Sept. 13; Sp. p. 2434; Gaz. vol. 158; p. 410.
Crate, Folding. F. D. Brockman and E. D. Hoffman. No. 971,354; Sept. 27; Sp. p. 4693; Gaz. vol. 158; p. 820.
Crate, Folding egg-. C. T. Sibold. No. 959,627; May 31; Sp. p. 6918; Gaz. vol. 154; p. 1178.
Crate, Folding poultry-. J. W. Lightfoot. No. 954,981; Apr. 12; Sp. p. 2811; Gaz. vol. 153; p. 476.
Crate, Folding poultry-. T. Murray. No. 963,798; July 12; Sp. p. 1719; Gaz. vol. 156; p. 286.
Crate, Folding shipping-. A. Wyss. No. 946,419; Jan. 11; Sp. p. 3186; Gaz. vol. 150; p. 512.
Crate, Folding shipping-. O. E. Stout. No. 946,948; Jan. 18; Sp. p. 4351; Gaz. vol. 150; p. 715.
Crate, Folding shipping-. R. I. Bayne. No. 953,581; Mar. 29; Sp. p. 6469; Gaz. vol. 152; p. 1156.
Crate, Folding shipping-. F. J. Youngren. No. 970,362; Sept. 13; Sp. p. 2590; Gaz. vol. 158; p. 438.
Crate, Hog-breeding. H. G. Carr. No. 950,837; Mar. 1; Sp. p. 805; Gaz. vol. 152; p. 128.
Crate, Hog-breeding. L. Sturm. No. 952,479; Mar. 22; Sp. p. 4079; Gaz. vol. 152; p. 753.
Crate, Knockdown. B. G. and R. M. Hutton. No. 967,923; Aug. 23; Sp. p. 4416; Gaz. vol. 157; p. 778.
Crate lid, Egg-. H. H. Boenker. No. 953,315; Mar. 29; Sp. p. 5878; Gaz. vol. 152; p. 1061.
Crate-machine. M. Gleason. No. 961,954; June 21; Sp. p. 3573; Gaz. vol. 155; p. 629.
Crate, Metal shipping-. J. A. Mayer, Sr. No. 949,191; Feb. 15; Sp. p. 2963; Gaz. vol. 151; p. 525.
Crate or box, Collapsible. F. E. Sterrett. No. 975,000; Nov. 8; Sp. p. 2110; Gaz. vol. 160; p. 343.
Crate or box, Folding. F. E. Sterrett. No. 947,563; Jan. 25; Sp. p. 5714; Gaz. vol. 150; p. 949.
Crate or case, Folding. A. Braen. No. 969,455; Sept. 6; Sp. p. 633; Gaz. vol. 158; p. 101.
Crate or coop, Folding shipping. C. B. Ferrell and J. M. Perrine. No. 977,791; Dec. 6; Sp. p. 815; Gaz. vol. 161; p. 127.
Crate rack, Bottle-. M. Robinson and H. S. Neale. No. 962,671; June 28; Sp. p. 5139; Gaz. vol. 155; p. 898.
Crate, Shipping-. N. H. Carter. No. 954,613; Apr. 12; Sp. p. 1959; Gaz. vol. 153; p. 348.
Crate, Shipping-. F. Simon. No. 963,331; July 5; Sp. p. 740; Gaz. vol. 156; p. 107.
Crate, Shipping-. J. L. Newton. No. 979,085; Dec. 20; Sp. p. 3601; Gaz. vol. 161; p. 628.
Crates, Partition-strip for bottle-. E. C. Rose. No. 963,250; July 5; Sp. p. 580; Gaz. vol. 156; p. 80.
Crating apparatus, Chicken-. J. De Young. No. 959,121; May 24; Sp. p. 5869; Gaz. vol. 154; p. 983.
Cravat-holder. J. G. Homet. No. 974,148; Nov. 1; Sp. p. 82; Gaz. vol. 160; p. 17.
Cravats and the like, Fastener for. J. Seifert. No. 953,716; Apr. 5; Sp. p. 64; Gaz. vol. 153; p. 15.
Crayon-holder. G. A. Tucker. No. 955,617; Apr. 19; Sp. p. 4153; Gaz. vol. 153; p. 723.
Cream-cooler. D. Kihlgren. No. 978,458; Dec. 13; Sp. p. 2245; Gaz. vol. 161; p. 389.
Cream cooler and aerator, Pasteurized-. E. S. Snively. No. 965,604; July 26; Sp. p. 5640; Gaz. vol. 156; p. 960.
Cream-dipper. A. Wilcox. No. 950,525; Mar. 1; Sp. p. 139; Gaz. vol. 152; p. 23.
Cream-float-locking device. M. S. Tarkington. No. 962,799; June 28; Sp. p. 5410; Gaz. vol. 155; p. 944.
Cream from milk-bottles, Device for removing. L. A. Young. No. 962,187; June 21; Sp. p. 4093; Gaz. vol. 155; p. 710.
Cream, Guard for receptacles for whipping. N. M. Doherty. No. 975,336; Nov. 8; Sp. p. 2827; Gaz. vol. 160; p. 457.
Cream-heater. J. O. Bray. No. 968,531; Aug. 30; Sp. p. 5738; Gaz. vol. 157; p. 1011.
Cream-ripener. H. Christensen. No. 965,687; July 26; Sp. p. 5822; Gaz. vol. 156; p. 990.
Cream-separator. F. C. A. Richardson. No. 950,117; Feb. 22; Sp. p. 4968; Gaz. vol. 151; p. 874.
Cream-separator. G. T. Soderstrom. No. 950,605; Mar. 1; Sp. p. 300; Gaz. vol. 152; p. 49.
Cream-separator. N. S. Sprague. No. 952,220; Mar. 15; Sp. p. 3549; Gaz. vol. 152; p. 638.
Cream-separator. C. B. Phillips. No. 952,686; Mar. 22; Sp. p. 4543; Gaz. vol. 152; p. 825.
Cream-separator. W. C. Hartmann. No. 961,349; June 14; Sp. p. 2291; Gaz. vol. 155; p. 404.
Cream-separator. F. W. and W. C. Hartmann. No. 962,141; June 21; Sp. p. 3995; Gaz. vol. 155; p. 693.

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Cream-separator. W. C. Hartmann. No. 964,643; July 19; Sp. p. 3518; Gaz. vol. 156; p. 601.
Cream-separator, Centrifugal. G. M. Anderson. No. 960,768; June 7; Sp. p. 1075; Gaz. vol. 155; p. 180.
Cream-separator, Centrifugal. E. A. Forsberg. No. 964,505; July 19; Sp. p. 3202; Gaz. vol. 156; p. 554.
Cream-separator liner. E. R. Bailey. No. 945,903; Jan. 11; Sp. p. 2006; Gaz. vol. 150; p. 333.
Cream-separator protector. P. Beechel. No. 963,500; July 5; Sp. p. 1074; Gaz. vol. 156; p. 164.
Cream-separator, Siphon. T. Yamashita. No. 967,099; Aug. 9; Sp. p. 2720; Gaz. vol. 157; p. 448.
Cream-separators, Collecting-casing for. J. and A. Persoons. No. 969,400; Sept. 6; Sp. p. 534; Gaz. vol. 158; p. 85.
Cream-testing device. F. C. Kratz. No. 979,009; Dec. 20; Sp. p. 3436; Gaz. vol. 161; p. 603.
Cream used for making fondants, chocolate centers, &c., Heating. W. Boyd. No. 978,131; Dec. 13; Sp. p. 1556; Gaz. vol. 161; p. 276.
Creaming and beating machine. H. M. Bachman. No. 969,324; Sept. 6; Sp. p. 364; Gaz. vol. 158; p. 59.
Credit-register. F. J. Peterson. No. 967,349; Aug. 16; Sp. p. 3657; Gaz. vol. 157; p. 629.
Creeper. O. A. Norlund. No. 962,042; June 21; Sp. p. 3751; Gaz. vol. 155; p. 658.
Crew-saving and submarine-salvaging device. A. W. Reed. No. 953,642; Mar. 29; Sp. p. 6586; Gaz. vol. 152; p. 1176.
Crib and play-pen, Folding. H. Janes. No. 955,076; Apr. 12; Sp. p. 2986; Gaz. vol. 153; p. 506.
Crib attachment. A. L. Almgren. No. 949,389; Feb. 15; Sp. p. 3396; Gaz. vol. 151; p. 593.
Crib-hook. R. Luke. No. 971,058; Sept. 27; Sp. p. 4089; Gaz. vol. 158; p. 724.
Crib, Rocking. W. B. Walton and N. H. Keim. No. 956,913; May 3; Sp. p. 900; Gaz. vol. 154; p. 142.
Crib structure. W. M. and J. P. Lawyer. No. 962,767; June 28; Sp. p. 5343; Gaz. vol. 155; p. 934.
Crimping-machine. J. A. Cocker. No. 973,477; Oct. 25; Sp. p. 4328; Gaz. vol. 159; p. 759.
Cross-arm brace. J. D. Love. No. 958,933; May 24; Sp. p. 5491; Gaz. vol. 154; p. 921.
Cross-arm support and brace, Combined. J. W. McCune. No. 970,091; Sept. 13; Sp. p. 2042; Gaz. vol. 158; p. 347.
Cross-brace for plaster-boards or the like. H. H. Burson. No. 979,644; Dec. 27; Sp. p. 4811; Gaz. vol. 161; p. 844.
Cross-head. B. M. Aslakson. No. 949,137; Feb. 15; Sp. p. 2861; Gaz. vol. 151; p. 506.
Cross-head. W. J. Wassmann. No. 957,920; May 17; Sp. p. 3033; Gaz. vol. 154; p. 544.
Cross-head. F. H. Smith. No. 972,133; Oct. 4; Sp. p. 1337; Gaz. vol. 159; p. 225.
Cross-heads, Device for remetaling. A. Ashworth. No. 967,153; Aug. 16; Sp. p. 2851; Gaz. vol. 157; p. 493.
Cross-roll trough. H. D. Pennington. No. 959,433; May 24; Sp. p. 6480; Gaz. vol. 154; p. 1086.
Cross-slide-operating mechanism. H. B. Lester. No. 957,224; May 10; Sp. p. 1575; Gaz. vol. 154; p. 278.
Cross-slides, Mechanism for actuating. B. M. W. Hanson. No. 945,453; Jan. 4; Sp. p. 954; Gaz. vol. 150; p. 150.
Cross-tie and rail-fastener. J. L. Austin. No. 950,984; Mar. 1; Sp. p. 1085; Gaz. vol. 152; p. 174.
Cross-tie, Metallic. W. E. Cole and W. W. Candler. No. 957,497; May 10; Sp. p. 2141; Gaz. vol. 154; p. 370.
Cross-tie or sleeper of reinforced concrete or other plastic material. H. A. Wills. No. 978,343; Dec. 13; Sp. p. 2007; Gaz. vol. 161; p. 349.
Crossing-signal. J. Merryweather. No. 978,921; Dec. 20; Sp. p. 3218; Gaz. vol. 161; p. 571.
Crossing system, Automatic interlocking. R. L. Holt. No. 974,273; Nov. 1; Sp. p. 436; Gaz. vol. 160; p. 64.
Crown-block. F. S. Barkelew. No. 956,926; May 3; Sp. p. 926; Gaz. vol. 154; p. 147.
Crucible-furnace. W. Miller. No. 972,703; Oct. 11; Sp. p. 2586; Gaz. vol. 159; p. 441.
Crucible-holding device. E. P. Carr. No. 976,042; Nov. 15; Sp. p. 4277; Gaz. vol. 160; p. 725.
Crumber. M. L. Poulter. No. 969,187; Sept. 6; Sp. p. 95; Gaz. vol. 158; p. 15.
Crusher: *See* Cane-crusher; Clod-crusher; Gyrating crusher; Gyratory crusher; Harrow and clod-crusher; Ore-crusher; Rock-crusher; Sugar-crusher.
Crusher. A. Niedermeyer and R. Bernhard. No. 960,231; May 31; Sp. p. 8226; Gaz. vol. 154; p. 1384.
Crusher. A. Niedermeyer and R. Bernhard. No. 960,232; May 31; Sp. p. 8229; Gaz. vol. 154; p. 1385.
Crusher-mill. J. Williams. No. 973,327; Oct. 18; Sp. p. 4003; Gaz. vol. 159; p. 685.
Crushing-jaw. W. Brinton. No. 945,372; Jan. 4; Sp. p. 799; Gaz. vol. 150; p. 123.
Crushing-machine. I. L. Mitchell. No. 947,669; Jan. 25; Sp. p. 5930; Gaz. vol. 150; p. 986.
Crushing-machine. I. L. Mitchell. No. 947,737; Jan. 25; Sp. p. 6047; Gaz. vol. 150; p. 1008.
Crushing-machine. J. E. Symons. No. 970,571; Sept. 20; Sp. p. 3045; Gaz. vol. 158; p. 530.
Crushing-mill. T. J. Sturtevant. No. 977,235; Nov. 29; Sp. p. 6970; Gaz. vol. 160; p. 1185.
Crushing-mill. Roller. F. Wolfenden. No. 977,918; Dec. 6; Sp. p. 1082; Gaz. vol. 161; p. 172.
Crushing or pulverizing machine. J. L. Hiller. No. 958,921; May 24; Sp. p. 5474; Gaz. vol. 154; p. 917.
Crushing or pulverizing machine. J. L. Hiller. No. 977,799; Dec. 6; Sp. p. 829; Gaz. vol. 161; p. 130.
Crushing or pulverizing mill. C. A. Dorn, J. O. Ludlam, and C. F. and L. C. Bonnot. No. 952,885; Mar. 22; Sp. p. 4959; Gaz. vol. 152; p. 892.
Crushing-roll. R. Bernhard. No. 956,878; May 3; Sp. p. 819; Gaz. vol. 154; p. 131.
Crushing-roll. T. A. Edison. No. 962,822; June 28; Sp. p. 5448; Gaz. vol. 155; p. 952.
Crushing-rolls. T. A. Edison. No. 962,823; June 28; Sp. p. 5449; Gaz. vol. 155; p. 952.
Crutch. C. L. Jensen and L. A. Lahey. No. 974,494; Nov. 1; Sp. p. 963; Gaz. vol. 160; p. 143.
Crutch, Adjustable. W. H. Loftin. No. 973,283; Oct. 18; Sp. p. 3909; Gaz. vol. 159; p. 669.
Crutch and chair, Combined. S. J. Johnson. No. 979,959; Dec. 27; Sp. p. 5491; Gaz. vol. 161; p. 949.
Crutch attachment. K. D. Harding. No. 970,497; Sept. 20; Sp. p. 2883; Gaz. vol. 158; p. 504.
Crutch-tip. E. H. Seibert. No. 956,438; Apr. 26; Sp. p. 5963; Gaz. vol. 153; p. 1035.
Crutch-tip. P. W. Pratt. No. 960,700; June 7; Sp. p. 938; Gaz. vol. 155; p. 156.
Cryolite, Making artificial. G. Loesekann. No. 969,381; Sept. 6; Sp. p. 497; Gaz. vol. 158; p. 79.
Cue. H. McCleary. No. 951,739; Mar. 8; Sp. p. 2580; Gaz. vol. 152; p. 446.
Cue-chalker. A. L. Jay. No. 974,066; Oct. 25; Sp. p. 5558; Gaz. vol. 159; p. 963.
Cue-guard. P. L. Furey. No. 953,167; Mar. 29; Sp. p. 5568; Gaz. vol. 152; p. 1015.
Cue-tip. E. Lamprecht. No. 971,201; Sept. 27; Sp. p. 4394; Gaz. vol. 158; p. 771.
Cue-tipping machine. G. Mahoney. No. 955,819; Apr. 19; Sp. p. 4586; Gaz. vol. 153; p. 792.
Cuff attachment. F. Hustace and J. J. Smiddy. No. 979,306; Dec. 20; Sp. p. 4102; Gaz. vol. 161; p. 706.
Cuff-holder. E. M. Johnson. No. 945,097; Jan. 4; Sp. p. 193; Gaz. vol. 150; p. 32.
Cuff-holder. M. P. Zindorf. No. 952,661; Mar. 22; Sp. p. 4487; Gaz. vol 152; p. 817.
Cuff-pin. F. E. Farnham. No. 945,481; Jan. 4; Sp. p. 1014; Gaz. vol. 150; p. 159.
Cuff-press. W. Bartholomew. No. 952,721; Mar. 22; Sp. p. 4620; Gaz. vol. 152; p. 837.
Cuff-pressing machine. A. T. Hagen and D. M. Cooper. No. 962,213; June 21; Sp. p. 4135; Gaz. vol. 155; p. 718.
Cuff-protector. N. Cerri. No. 955,631; Apr. 19; Sp. p. 4181; Gaz. vol. 153; p. 728.
Cuffs and the like, Machine for folding blanks for. W. L. Dixon. No. 956,950; May 3; Sp. p. 967; Gaz. vol. 154; p. 155.
Culinary article. S. B. Harrison. No. 972,078; Oct. 4; Sp. p. 1229; Gaz. vol. 159; p. 208.
Culinary implement. T. J. Fischer. No. 959,210; May 24; Sp. p. 6058; Gaz. vol. 154; p. 1013.
Culinary implement. W. Dupré. No. 967,351; Aug. 16; Sp. p. 3242; Gaz. vol. 157; p. 562.
Culinary implement. G. W. McCarty. No. 967,815; Aug. 16; Sp. p. 4186; Gaz. vol. 157; p. 718.
Culinary implement. U. C. Oblosser. No. 968,968; Aug. 30; Sp. p. 6663; Gaz. vol. 157; p. 1161.
Culinary scraper and scourer. G. E. Schmidmer. No. 976,606; Nov. 22; Sp. p. 5576; Gaz. vol. 160; p. 943.
Culinary utensil. G. A. Allsopp. No. 961,474; June 14; Sp. p. 2541; Gaz. vol. 155; p. 445.
Culinary utensil. W. E. Morrison and F. F. Minnich. No. 967,954; Aug. 23; Sp. p. 4475; Gaz. vol. 157; p. 788.
Culinary-utensil cover. B. N. Reeves. No. 946,271; Jan. 11; Sp. p. 2777; Gaz. vol. 150; p. 461.
Culinary utensils, Alarm device for. P. C. Emslie. No. 957,663; May 10; Sp. p. 2473; Gaz. vol. 154; p. 427.
Culinary-vessel cover. H. Pearl and C. F. Reinmann. No. 947,025; Jan. 18; Sp. p. 4509; Gaz. vol. 150; p. 742.
Cultivating and insect-destroying machine, Combined. J. Peil. No. 947,455; Jan. 25; Sp. p. 5455; Gaz. vol. 150; p. 913.
Cultivating implement. F. P. Burdge. No. 956,477; Apr. 26; Sp. p. 6053; Gaz. vol. 153; p. 1049.
Cultivating implement. J. F. Windhorst. No. 963,102; July 5; Sp. p. 173; Gaz. vol. 156; p. 27.
Cultivating-machine. D. H. Abbott. No. 962,288; June 21; Sp. p. 4301; Gaz. vol. 155; p. 743.
Cultivating-machine for tilling and weeding land. H. Watt. No. 977,911; Dec. 6; Sp. p. 1062; Gaz. vol. 161; p. 169.
Cultivating shovel, Surface-. L. B. Penton. No. 948,522; Feb. 8; Sp. p. 1568; Gaz. vol. 151; p. 276.
Cultivator. T. D. Heath. No. 945,163; Jan. 4; Sp. p. 323; Gaz. vol. 150; p. 54.
Cultivator. F. Upshaw. No. 948,262; Feb. 1; Sp. p. 982; Gaz. vol. 151; p. 162.
Cultivator. P. Johnson. No. 948,700; Feb. 8; Sp. p. 1955; Gaz. vol. 151; p. 335.
Cultivator. P. Olsson. No. 949,244; Feb. 15; Sp. p. 3061; Gaz. vol. 151; p. 542.
Cultivator. R. W. Simpson. No. 949,383; Feb. 15; Sp. p. 3384; Gaz. vol. 151; p. 590.

Cultivator. S. A. Bond. No. 951,720; Mar. 8; Sp. p. 2526; Gaz. vol. 152; p. 440.
Cultivator. R. L. Kilpatrick. No. 951,950; Mar. 15; Sp. p. 3034; Gaz. vol. 152; p. 549.
Cultivator. B. E. Held. No. 952,115; Mar. 15; Sp. p. 3346; Gaz. vol. 152; p. 602.
Cultivator. J. H. Hewitt. No. 952,902; Mar. 22; Sp. p. 4997; Gaz. vol. 152; p. 898.
Cultivator. W. L. Morford. No. 956,132; Apr. 26; Sp. p. 5298; Gaz. vol. 153; p. 931.
Cultivator. J. P. Meyers. No. 957,359; May 10; Sp. p. 1862; Gaz. vol. 154; p. 324.
Cultivator. P. T. Zollars. No. 959,683; May 31; Sp. p. 7042; Gaz. vol. 154; p. 1196.
Cultivator. J. S. Ludwig. No. 961,304; June 14; Sp. p. 2171; Gaz. vol. 155; p. 388.
Cultivator. H. N. Faas and H. E. Dodson. No. 961,762; June 21; Sp. p. 3144; Gaz. vol. 155; p. 565.
Cultivator. W. F. Nielsen. No. 962,520; June 28; Sp. p. 4820; Gaz. vol. 155; p. 848.
Cultivator. J. L. Woolard. No. 962,806; June 28; Sp. p. 5425; Gaz. vol. 155; p. 947.
Cultivator. D. F. Deppe. No. 964,500; July 19; Sp. p. 3192; Gaz. vol. 156; p. 552.
Cultivator. F. E. Davis. No. 964,763; July 19; Sp. p. 3875; Gaz. vol. 156; p. 644.
Cultivator. F. Divin. No. 965,376; July 26; Sp. p. 5131; Gaz. vol. 156; p. 880.
Cultivator. G. E. Sprague. No. 966,260; Aug. 2; Sp. p. 889; Gaz. vol. 157; p. 142.
Cultivator. J. B. Hoober. No. 968,054; Aug. 23; Sp. p. 4702; Gaz. vol. 157; p. 821.
Cultivator. D. E. McDaniel. No. 968,588; Aug. 30; Sp. p. 5856; Gaz. vol. 157; p. 1033.
Cultivator. J. C. Maxwell. No. 972,204; Oct. 11; Sp. p. 1512; Gaz. vol. 159; p. 269.
Cultivator. F. Avery. No. 973,614; Oct. 25; Sp. p. 4625; Gaz. vol. 159; p. 804.
Cultivator. G. W. Davis. No. 974,241; Nov. 1; Sp. p. 358; Gaz. vol. 160; p. 51.
Cultivator. G. W. Spiers. No. 974,840; Nov. 8; Sp. p. 1713; Gaz. vol. 160; p. 288.
Cultivator. C. C. Mehler. No. 975,058; Nov. 8; Sp. p. 2226; Gaz. vol. 160; p. 362.
Cultivator. R. E. Meloen. No. 975,975; Nov. 15; Sp. p. 4154; Gaz. vol. 160; p. 703.
Cultivator. W. S. Wilburn. No. 976,020; Nov. 15; Sp. p. 4235; Gaz. vol. 160; p. 718.
Cultivator. F. P. and P. F. Eckroat. No. 976,643; Nov. 22; Sp. p. 5651; Gaz. vol. 160; p. 955.
Cultivator. F. P. and P. F. Eckroat. No. 976,644; Nov. 22; Sp. p. 5654; Gaz. vol. 160; p. 956.
Cultivator. L. S. Ellett. No. 976,729; Nov. 22; Sp. p. 5808; Gaz. vol. 160; p 984.
Cultivator. E. M. Dowdy. No. 976,854; Nov. 29; Sp. p. 6111; Gaz. vol. 160; p. 1052.
Cultivator. E. Gieselmann. No. 976,864; Nov. 29; Sp. p. 6127; Gaz. vol. 160; p. 1056.
Cultivator. B. L. Nehf. No. 977,031; Nov. 29; Sp. p. 6528; Gaz. vol. 160; p. 1114.
Cultivator. B. F. Stovall. No. 977,051; Nov. 29; Sp. p. 6570; Gaz. vol. 160; p. 1121.
Cultivator. G. Gilbertson. No. 979,150; Dec. 20; Sp. p. 3779; Gaz. vol. 161; p. 654.
Cultivator. W. A. J. Brown. No. 979,928; Dec. 27; Sp. p. 5432; Gaz. vol. 161; p. 939.
Cultivator, Adjustable. E. M. McKissick. No. 968,388; Aug. 23; Sp. p. 5435; Gaz. vol. 157; p. 937.
Cultivator, Adjustable hand disk. J. W. Watson. No. 950,084; Feb. 22; Sp. p. 4906; Gaz. vol. 151; p. 863.
Cultivator and attachment. R. D. Elliott. No. 951,238; Mar. 8; Sp. p. 1560; Gaz. vol. 152; p. 280.
Cultivator and cultivator-teeth. S. L. Allen. No. 965,848; Aug. 2; Sp. p. 3; Gaz. vol. 157; p. 3.
Cultivator and furrow-marker, Combination. S. Schäller. No. 965,411; July 26; Sp. p. 5200; Gaz. vol. 156; p. 892.
Cultivator and planter, Hand. D. D. Funk. No. 946,598; Jan. 18; Sp. p. 3545; Gaz. vol. 150; p. 597.
Cultivator and seeder, Combined. W. Foy. No. 965,702; July 26; Sp. p. 5856; Gaz. vol. 156; p. 995.
Cultivator attachment. H. Christoffersen. No. 949,218; Feb. 15; Sp. p. 3004; Gaz. vol. 151; p. 533.
Cultivator attachment. C. Sell. No. 957,579; May 10; Sp. p. 2297; Gaz. vol. 154; p. 398.
Cultivator attachment. O. E. Adamson. No. 960,764; June 7; Sp. p. 1067; Gaz. vol. 155; p. 179.
Cultivator attachment. C. J. Rowlee. No. 965,230; July 26; Sp. p. 4804; Gaz. vol. 156; p. 831.
Cultivator attachment. J. O'Maley. No. 970,743; Sept. 20; Sp. p. 3443; Gaz. vol. 158; p. 589.
Cultivator attachment. W. J. Luttrell. No. 973,284; Oct. 18; Sp. p. 3910; Gaz. vol. 159; p. 669.
Cultivator attachment. F. A. Reese. No. 973,461; Oct. 18; Sp. p. 4284; Gaz. vol. 159; p. 730.
Cultivator attachment. E. W. Cornell. No. 973,480; Oct. 25; Sp. p. 4333; Gaz. vol. 159; p. 760.
Cultivator attachment. J. L. Jenkins. No. 974,670; Nov. 1; Sp. p. 1339; Gaz. vol. 160; p. 208.
Cultivator attachment. J. Meyer. No. 975,976; Nov. 15; Sp. p. 4156; Gaz. vol. 160; p. 703.
Cultivator attachment, Swivel-action. J. T. Foulke. No. 957,322; May 10; Sp. p. 1789; Gaz. vol. 154; p. 312.
Cultivator, Automobile. A. R. Lynch. No. 973,677; Oct. 25; Sp. p. 4762; Gaz. vol. 159; p. 828.
Cultivator, Cotton-. J. W. Doty. No. 952,983; Mar. 22; Sp. p. 5149; Gaz. vol. 152; p. 925.
Cultivator, Cotton-. M. L. Nix. No. 977,534; Dec. 6; Sp. p. 273; Gaz. vol. 161; p. 40.
Cultivator-fender. G. M. Foster. No. 972,842; Oct. 18; Sp. p. 2896; Gaz. vol. 159; p. 515.
Cultivator-fender. W. T. Byrd. No. 975,326; Nov. 8; Sp. p. 2813; Gaz. vol. 160; p. 455.
Cultivator, Hand-. E. Piggott. No. 957,573; May 10; Sp. p. 2288; Gaz. vol. 154; p. 396.
Cultivator, Hand-. R. I. Teeter. No. 972,289; Oct. 11; Sp. p. 1696; Gaz. vol. 159; p. 298.
Cultivator, Irrigating-. E. F. Douglas. No. 965,623; July 26; Sp. p. 5696; Gaz. vol. 156; p. 968.
Cultivator lever mechanism. F. M. Ashe. No. 945,361; Jan. 4; Sp. p. 777; Gaz. vol. 150; p. 119.
Cultivator, Lister-. T. S. Warner. No. 948,030; Feb. 1; Sp. p. 519; Gaz. vol. 151; p. 84.
Cultivator, Lister-. W. S. Graham. No. 955,510; Apr. 19; Sp. p. 3911; Gaz. vol. 153; p. 686.
Cultivator, Pivot-axle. H. W. Eisenhart. No. 958,609; May 17; Sp. p. 4776; Gaz. vol. 154; p. 784.
Cultivator plow attachment. J. A. Sutton. No. 961,044; June 7; Sp. p. 1619; Gaz. vol. 155; p. 271.
Cultivator replanter attachment. F. E. Markley. No. 977,115; Nov. 29; Sp. p. 6715; Gaz. vol. 160; p. 1143.
Cultivator replanting attachment. W. Faust. No. 961,290; June 14; Sp. p. 2142; Gaz. vol. 155; p. 384.
Cultivator replanting attachment. J. B. Engstrom and O. J. Page. No. 965,801; July 26; Sp. p. 6064; Gaz. vol. 156; p. 1028.
Cultivator, Riding-. G. D. Houston. No. 967,195; Aug. 16; Sp. p. 2940; Gaz. vol. 157; p. 508.
Cultivator, Rotary. U. S. Brown. No. 972,503; Oct. 11; Sp. p. 2136; Gaz. vol. 159; p. 371.
Cultivator seed-sowing attachment. R. Griswold. No. 964,243; July 12; Sp. p. 2644; Gaz. vol. 156; p. 435.
Cultivator-shovel. W. J. Herscher. No. 959,528; May 31; Sp. p. 6720; Gaz. vol. 154; p. 1144.
Cultivator-shovel. F. A. Pendarvis. No. 961,640; June 14; Sp. p. 2893; Gaz. vol. 155; p. 500.
Cultivator-shovel. D. Katt. No. 962,434; June 28; Sp. p. 4630; Gaz. vol. 155; p. 818.
Cultivator-shovel. S. P. Lentz. No. 970,247; Sept. 13; Sp. p. 2377; Gaz. vol. 158; p. 400.
Cultivator-shovel. J. P. Stanza. No. 976,518; Nov. 22; Sp. p. 5377; Gaz. vol. 160; p. 912.
Cultivator shovel and fender. J. H. Bickhard. No. 947,587; Jan. 25; Sp. p. 5766; Gaz. vol. 150; p. 958.
Cultivator-shovel moldboard. W. M. Medcalf. No. 962,909; June 28; Sp. p. 5611; Gaz. vol. 155; p. 983.
Cultivator, Spring-tooth. A. Brigden. No. 962,001; June 21; Sp. p. 3664; Gaz. vol. 155; p. 644.
Cultivator-standard. E. D. Yeatts. No. 978,348; Dec. 13; Sp. p. 2018; Gaz. vol. 161; p. 351.
Cultivator, Subsoil-. O. J. Springer. No. 970,760; Sept. 20; Sp. p. 3481; Gaz. vol. 158; p. 596.
Cultivator-tooth. F. E. and J. S. Bradley. No. 949,696; Feb. 15; Sp. p. 3974; Gaz. vol. 151; p. 692.
Cultivator-tooth adjuster. C. D. Kirk. No. 979,512; Dec. 27; Sp. p. 4514; Gaz. vol. 161; p. 797.
Cultivator, Two-row. A. C. Lindgren. No. 970,513; Sept. 20; Sp. p. 2919; Gaz. vol. 158; p. 510.
Cultivator weeder attachment. S. A. Swanson. No. 965,961; Aug. 2; Sp. p. 236; Gaz. vol. 157; p. 40.
Cultivator, Wheeled. J. R. Orr. No. 946,644; Jan. 18; Sp. p. 3651; Gaz. vol. 150; p. 612.
Cultivator, Wheeled. A. C. Lindgren. No. 970,514; Sept. 20; Sp. p. 2923; Gaz. vol. 158; p. 510.
Cultivator, Wheeled. A. C. Lindgren. No. 970,515; Sept. 20; Sp. p. 2925; Gaz. vol. 158; p. 511.
Cultivator, Wheeled hand-. R. H. Dubourg. No. 971,121; Sept. 27; Sp. p. 4213; Gaz. vol. 158; p. 744.
Cultivators, Cotton-blocking attachment for. J. P. Horner. No. 949,795; Feb. 22; Sp. p. 4214; Gaz. vol. 151; p. 761.
Cultivators, Fertilizer-distributing attachment to. T. S. Frantz and W. H. Troxell. No. 978,363; Dec. 13; Sp. p. 2043; Gaz. vol. 161; p. 356.
Cultivators, Harrow attachment for. T. Horne and D. C. Smith. No. 947,910; Feb. 1; Sp. p. 275; Gaz. vol. 151; p. 46.
Cultivators, Side harrow for. H. T. Smith. No. 974,098; Oct. 25; Sp. p. 5615; Gaz. vol. 159; p. 973.
Cultivators, Weed-cutter for. C. W. Crouse. No. 975,214; Nov. 8; Sp. p. 2586; Gaz. vol. 160; p. 417.
Culvert. J. P. Dolan. No. 947,773; Jan. 25; Sp. p. 6109; Gaz. vol. 150; p. 1019.
Culvert. N. S. Davis. No. 948,500; Feb. 8; Sp. p. 1523; Gaz. vol. 151; p. 269.
Culvert. A. McIntyre. No. 954,202; Apr. 5; Sp. p. 1076; Gaz. vol. 153; p. 182.
Culvert. F. B. Zieg. No. 960,137; May 31; Sp. p. 8044; Gaz. vol. 154; p. 1351.
Culvert. J. H. Schlafly. No. 973,708; Oct. 25; Sp. p. 4822; Gaz. vol. 159; p. 839.

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Culvert. J. H. Schlafly. No. 978,222; Dec. 13; Sp. p. 1742; Gaz. vol. 161; p. 306.
Culvert and producing same, Corrugated. A. A. Koch. No. 946,919; Jan. 18; Sp. p. 4306; Gaz. vol. 150; p. 706.
Culvert, Cement. C. A. Van Riper. No. 951,226; Mar. 8; Sp. p. 1537; Gaz. vol. 152; p. 277.
Culvert construction. C. Traub and J. W. Helfrecht. No. 964,585; July 19; Sp. p. 3410; Gaz. vol. 156; p. 582.
Culvert, Corrugated. F. J. Feldt. No. 977,944; Dec. 6; Sp. p. 1131; Gaz. vol. 161; p. 182.
Culvert, Corrugated. F. J. Feldt. No. 977,945; Dec. 6; Sp. p. 1132; Gaz. vol. 161; p. 182.
Culvert, Corrugated metal. J. R. Orwig. No. 971,400; Sept. 27; Sp. p. 4774; Gaz. vol. 158; p. 835.
Culvert, Corrugated sectional nestable. C. A. Foster. No. 979,146; Dec. 20; Sp. p. 3770; Gaz. vol. 161; p. 652.
Culvert, Corrugated sheet-metal. W. M. Lana. No. 950,928; Mar. 1; Sp. p. 974; Gaz. vol. 152; p. 156.
Culvert, Flat-bottom. J. B. Jarmin. No. 951,124; Mar. 8; Sp. p. 1338; Gaz. vol. 152; p. 244.
Culvert-head. G. W. Storms. No. 961,908; June 21; Sp. p. 3466; Gaz. vol. 155; p. 615.
Culvert, Metal. C. H. Freeman. No. 949,568; Feb. 15; Sp. p. 3751; Gaz. vol. 151; p. 652.
Culvert, Metal. C. M. Porter. No. 971,558; Oct. 4; Sp. p. 106; Gaz. vol. 159; p. 20.
Culvert, Metallic. O. K. Harry. No. 973,503; Oct. 25; Sp. p. 4391; Gaz. vol. 159; p. 767.
Culvert-pipe. R. C. McWane. No. 960,379; June 7; Sp. p. 290; Gaz. vol. 155; p. 48.
Culvert-pipe. C. O. Wold. No. 970,772; Sept. 20; Sp. p. 3510; Gaz. vol. 158; p. 600.
Culvert-pipe, Corrugated metal. A. G. Felker. No. 954,673; Apr. 12; Sp. p. 2102; Gaz. vol. 153; p. 369.
Culvert-pipe, Metal. J. B. Jarmin. No. 951,279; Mar. 8; Sp. p. 1656; Gaz. vol. 152; p. 293.
Culvert, Road-. W. F. Looker. No. 971,456; Sept. 27; Sp. p. 4871; Gaz. vol. 158; p. 853.
Culvert, Round. J. B. Jarmin. No. 951,123; Mar. 8; Sp. p. 1337; Gaz. vol. 152; p. 244.
Culverts, Collapsible and adjustable mold for cement. G. W. Fish. No. 955,779; Apr. 19; Sp. p. 4501; Gaz. vol. 153; p. 777.
Culverts, Collapsible form for building. C. A. Besser. No. 952,869; Mar. 22; Sp. p. 4928; Gaz. vol. 152; p. 887.
Cup: *See* Bearing-cup; Dental impression-cup; Drinking-cup; Egg-cup; Eye-cup; Folding cup; Grease-cup; Leather cup; Massage-cup; Medical eye-cup; Milking-machine teat-cup; Oil-cup; Priming-cup; Shaving-cup; Sputum-cup; Suction-cup; Teat-cup; Turpentine-cup; Umbrella drip-cup.
Cup. S. W. Wright. No. 979,629; Dec. 27; Sp. p. 4776; Gaz. vol. 161; p. 839.
Cupboard and table-closet, Combined. L. P. Armstrong. No. 947,985; Feb. 1; Sp. p. 431; Gaz. vol. 151; p. 69.
Cupolas, Gate or cut-off for. R. M. Clark. No. 966,310; Aug. 2; Sp. p. 976; Gaz. vol. 157; p. 156.
Cuprammonium solution, Making. H. Bernstein. No. 965,273; July 26; Sp. p. 4900; Gaz. vol. 156; p. 845.
Cuprammonium solution, Making. H. Bernstein. No. 965,557; July 26; Sp. p. 5547; Gaz. vol. 156; p. 945.
Cuprammonium solution, Producing. V. E. Mertz. No. 954,984; Apr. 12; Sp. p. 2815; Gaz. vol. 153; p. 477.
Curb-box. A. J. Tyler. No. 948,001; Feb. 1; Sp. p. 459; Gaz. vol. 151; p. 74.
Curb-box. A. J. Tyler. No. 961,178; June 14; Sp. p. 1891; Gaz. vol. 155; p. 343.
Curb-joint. N. Dubuc, Jr. No. 954,267; Apr. 5; Sp. p. 1209; Gaz. vol. 153; p. 202.
Curb-shaping tool. E. Olson. No. 978,631; Dec. 13; Sp. p. 2650; Gaz. vol. 161; p. 450.
Curbing. J. Firth. No. 945,312; Jan. 4; Sp. p. 672; Gaz. vol. 150; p. 104.
Curd-breaking apparatus. E. Poulin and H. Baril. No. 964,935; July 19; Sp. p. 4213; Gaz. vol. 156; p. 703.
Curd-cutting machine. L. D. Oakes. No. 966,587; Aug. 9; Sp. p. 1624; Gaz. vol. 157; p. 277.
Curd-cutting machine. J. C. Eickhoff. No. 979,835; Dec. 27; Sp. p. 5249; Gaz. vol. 161; p. 908.
Curd-knife. J. W. Moore. No. 976,676; Nov. 22; Sp. p. 5711; Gaz. vol. 160; p. 966.
Curler, Hair-. W. M. Willman. No. 952,396; Mar. 15; Sp. p. 3890; Gaz. vol. 152; p. 696.
Curling device, Hair-. H. W. Reynolds. No. 952,138; Mar. 15; Sp. p. 3394; Gaz. vol. 152; p. 610.
Curling-iron. H. M. Slaker. No. 970,272; Sept. 13; Sp. p. 2426; Gaz. vol. 158; p. 409.
Curling-iron heater, Electric. C. P. Harmon. No. 950,620; Mar. 1; Sp. p. 333; Gaz. vol. 152; p. 54.
Curling-iron heater, Flush. J. I. Ayer and H. B. Gale. No. 978,980; Dec. 20; Sp. p. 3372; Gaz. vol. 161; p. 593.
Currency cutting or shearing machine. J. I. Colley. No. 949,462; Feb. 15; Sp. p. 3523; Gaz. vol. 151; p. 616.
Currency, Form for paper. B. Brower. No. 973,619; Oct. 25; Sp. p. 4634; Gaz. vol. 159; p. 806.
Current apparatus, Sinusoidal-wave-. F. Cedergren. No. 979,060; Dec. 20; Sp. p. 3542; Gaz. vol. 161; p. 620.
Current-breaker, Rotary. H. Ruthardt. No. 947,853; Feb. 1; Sp. p. 162; Gaz. vol. 151; p. 27.
Current commutator-motor, Alternate-. R. Richter. No. 962,101; June 21; Sp. p. 3887; Gaz. vol. 155; p. 680.
Current-controller. B. H. Parker. No. 957,516; May 10; Sp. p. 2177; Gaz. vol. 154; p. 376.
Current-controller. F. L. Sessions. No. 973,885; Oct. 25; Sp. p. 5187; Gaz. vol. 159; p. 901.
Current-deflector. L. Kelley. No. 978,897; Dec. 20; Sp. p. 3165; Gaz. vol. 161; p. 562.
Current distributer and timer. J. M. Smith. No. 950,706; Mar. 1; Sp. p. 527; Gaz. vol. 152; p. 83.
Current distributer and timer. J. M Smith. No. 969,731; Sept. 6; Sp. p. 1223; Gaz. vol. 158; p. 198.
Current generator and motor system, Alternating-. W. Cooper. No. 977,784; Dec. 6; Sp. p. 804; Gaz. vol. 161; p. 125.
Current-interrupting device. O. M. Leich. No. 964,169; July 12; Sp. p. 2499; Gaz. vol. 156; p. 411.
Current machines, Rotor for high-frequency alternating-. A. E. Guy. No. 973,037; Oct. 18; Sp. p. 3376; Gaz. vol. 159; p. 584.
Current-motor. A. R. Brewer. No. 947,672; Jan. 25; Sp. p. 5935; Gaz. vol. 150; p. 987.
Current-motor. J. W. Myers. No. 949,747; Feb. 15; Sp. p. 4098; Gaz. vol. 151; p. 710.
Current-motor. F. A. Price. No. 950,676; Mar. 1; Sp. p. 451; Gaz. vol. 152; p. 73.
Current-motor. F. H. Crago. No. 951,525; Mar. 8; Sp. p. 2162; Gaz. vol. 152; p. 375.
Current-motor. J. H. Atkins. No. 953,891; Apr. 5; Sp. p. 409; Gaz. vol. 153; p. 75.
Current-motor. J. I. Hawley. No. 954,626; Apr. 12; Sp. p. 1993; Gaz. vol. 153; p. 352.
Current-motor. T. J. Steele. No. 957,388; May 10; Sp. p. 1919; Gaz. vol. 154; p. 334.
Current-motor. R. C. Schreiber. No. 958,014; May 17; Sp. p. 3316; Gaz. vol. 154; p. 578.
Current-motor. O. M. Butcher. No. 958,590; May 17; Sp. p. 4735; Gaz. vol. 154; p. 778.
Current-motor. E. A. McClung. No. 966,041; Aug. 2; Sp. p. 426; Gaz. vol. 157; p. 68.
Current-motor. C. T. J. Miner. No. 969,794; Sept. 13; Sp. p. 1392; Gaz. vol. 158; p. 244.
Current-motor. F. H. Crago. No. 973,004; Oct. 18; Sp. p. 3298; Gaz. vol. 159; p. 573.
Current-motor. A. Vestal and D. F. Bennett. No. 973,241; Oct. 18; Sp. p. 3831; Gaz. vol. 159; p. 655.
Current-motor. H. Alles. No. 974,735; Nov. 1; Sp. p. 1481; Gaz. vol. 160; p. 228.
Current-motor. H. S. McKague and A. R. Johnson. No. 979,320 Dec. 20; Sp. p. 4126; Gaz. vol. 161; p. 711.
Current motor, Alternate-. V. A. Fynn. No. 946,502; Jan. 11; Sp. p. 3364; Gaz. vol. 150; p. 540.
Current motor, Alternating-. V. A. Fynn. No. 946,505; Jan. 11; Sp. p. 3375; Gaz. vol. 150; p. 541.
Current motor, Alternating-. W. A. Layman. No. 952,532; Mar. 22; Sp. p. 4196; Gaz. vol. 152; p. 770.
Current motor, Alternating-. V. A. Fynn. No. 952,566; Mar. 22; Sp. p. 4270; Gaz. vol. 152; p. 783.
Current motor, Alternating-. H. Alexander. No. 953,018; Mar. 29; Sp. p. 5233; Gaz. vol. 152; p. 965.
Current motor, Alternating-. V. A. Fynn. No. 956,893; May 3; Sp. p. 857; Gaz. vol. 154; p. 136.
Current motor, Alternating-. V. A. Fynn. No. 956,894; May 3; Sp. p. 858; Gaz. vol. 154; p. 137.
Current motor, Alternating-. V. A. Fynn. No. 957,505; May 10; Sp. p. 2156; Gaz. vol. 154; p. 373.
Current motor, Alternating-. V. A. Fynn. No. 957,668; May 10; Sp. p. 2486; Gaz. vol. 154; p. 430.
Current motor, Alternating-. V. A. Fynn. No. 960,881; June 7; Sp. p. 1292; Gaz. vol. 155; p. 216.
Current motor, Alternating-. V. A. Fynn. No. 962,334; June 21; Sp. p. 4393; Gaz. vol. 155; p. 758.
Current motor, Alternating-. V. A. Fynn. No. 962,335; June 21; Sp. p. 4401; Gaz. vol. 155; p. 759.
Current motor, Alternating-. V. A. Fynn. No. 962,336; June 21; Sp. p. 4404; Gaz. vol. 155; p. 759.
Current motor, Alternating-. V. A. Fynn. No. 962,337; June 21; Sp. p. 4410; Gaz. vol. 155; p. 760.
Current motor, Alternating-. P. Utne. No. 964,714; July 19; Sp. p. 3768; Gaz. vol. 156; p. 627.
Current motor, Alternating-. V. A. Fynn. No. 967,361; Aug. 16; Sp. p. 3259; Gaz. vol. 157; p. 565.
Current motor, Alternating-. V. A. Fynn. No. 967,362; Aug. 16; Sp. p. 3268; Gaz. vol. 157; p. 566.
Current motor, Alternating-. V. A. Fynn. No. 967,363; Aug. 16; Sp. p. 3270; Gaz. vol. 157; p. 566.
Current motor and generator, Alternate-. V. A. Fynn. No. 946,504; Jan. 11; Sp. p. 3373; Gaz. vol. 150; p. 541.
Current motor and generator, Single-phase alternate-. V. A. Fynn. No. 956,845; May 3; Sp. p. 748; Gaz. vol. 154; p. 119.
Current-motor and towing apparatus. T. Warren. No. 968,904; Aug. 30; Sp. p. 6545; Gaz. vol. 157; p. 1140.
Current motor, Direct-. A. L. Sohm. No. 950,213; Feb. 22; Sp. p. 5174; Gaz. vol. 151; p. 908.
Current-motor, Rotary. E. A. McClung. No. 966,042; Aug. 2; Sp. p. 430; Gaz. vol. 157; p. 69.
Current rectifier, High-potential alternating-. C. H. Thordarson. No. 950,124; Feb. 22; Sp. p. 4981; Gaz. vol. 151; p. 876.
Current-reducer. B. L. Hadfield and H. A. Hall. No. 958,111; May 17; Sp. p. 3630; Gaz. vol. 154; p. 612.

Current-regulator. V. G. Apple. No. 965,059; July 19; Sp. p. 4467; Gaz. vol. 156; p. 744.
Current-reinforcing means. R. C. Browne. No. 960,495; June 7; Sp. p. 514; Gaz. vol. 155; p. 85.
Current transformer, Alternating-. H. A. Keip. No. 954,518; Apr. 12; Sp. p. 1758; Gaz. vol. 153; p. 315.
Current-translating device, Alternating-. L. F. Howard. No. 960,553; June 7; Sp. p. 646; Gaz. vol. 155; p. 105.
Current-wheel. J. W. Ziegler. No. 966,511; Aug. 9; Sp. p. 1463; Gaz. vol. 157; p. 251.
Currents, Device for steadying rectified. P. H. Thomas. No. 968,895; Aug. 30; Sp. p. 6528; Gaz. vol. 157; p. 1136.
Currents, Method and apparatus for producing high-frequency oscillating. J. H. Rogers. No. 958,829; May 24; Sp. p. 5254; Gaz. vol. 154; p. 886.
Currycomb. C. C. Whetstone. No. 949,868; Feb. 22; Sp. p. 4395; Gaz. vol. 151; p. 787.
Currycomb. A. Rahn. No. 962,666; June 28; Sp. p. 5130; Gaz. vol. 155; p. 896.
Currycomb. A. Rahn. No. 962,667; June 28; Sp. p. 5131; Gaz. vol. 155; p. 897.
Currycomb. J. S. Campbell. No. 971,171; Sept. 27; Sp. p. 4333; Gaz. vol. 158; p. 760.
Currycomb. F. Goble. No. 972,690; Oct. 11; Sp. p. 2564; Gaz. vol. 159; p. 436.
Currycomb and brush, Combined. S. M. Rowe. No. 977,551; Dec. 6; Sp. p. 311; Gaz. vol. 161; p. 46.
Currycomb attachment. N. H. Burns. No. 955,579; Apr. 19; Sp. p. 4041; Gaz. vol. 153; p. 709.
Curtain. E. E. Whitmore. No. 972,422; Oct. 11; Sp. p. 1963; Gaz. vol. 159; p. 344.
Curtain and shade fixture. E. Page and F. Tremblay. No. 975,568; Nov. 15; Sp. p. 3327; Gaz. vol. 160; p. 565.
Curtain and shade hanger. E. Hayward and W. Walter. No. 969,534; Sept. 6; Sp. p. 819; Gaz. vol. 158; p. 129.
Curtain and shade holder, Combined. G. A. Büchl. No. 950,432; Feb. 22; Sp. p. 5591; Gaz. vol. 151; p. 980.
Curtain, Berth-. G. T. Crandell. No. 973,006; Oct. 18; Sp. p. 3301; Gaz. vol. 159; p. 574.
Curtain-bracket. E. A. Chamberlin. No. 950,611; Mar. 1; Sp. p. 313; Gaz. vol. 152; p. 51.
Curtain-bracket. S. Bettigole. No. 960,792; June 7; Sp. p. 1118; Gaz. vol. 155; p. 187.
Curtain bracket, Window-. Z. J. Robert. No. 951,700; Mar. 8; Sp. p. 2494; Gaz. vol. 152; p. 433.
Curtain catch, Vestibule-. A. Lian. No. 954,866; Apr. 12; Sp. p. 2572; Gaz. vol. 153; p. 437.
Curtain-fastener. H. Higgin. No. 947,427; Jan. 25; Sp. p. 5393; Gaz. vol. 150; p. 904.
Curtain-fastener. L. C. Bailey. No. 962,879; June 28; Sp. p. 5564; Gaz. vol. 155; p. 973.
Curtain-fastener and the like. H. B. Pitner. No. 973,809; Oct. 25; Sp. p. 5026; Gaz. vol. 159; p. 873.
Curtain-fastener clamp. M. L. Thomas. No. 956,446; Apr. 26; Sp. p. 5983; Gaz. vol. 153; p. 1039.
Curtain-fixture. C. L. Hopkins. No. 950,622; Mar. 1; Sp. p. 337; Gaz. vol. 152; p. 55.
Curtain-fixture. J. Schoepe. No. 956,432; Apr. 26; Sp. p. 5947; Gaz. vol. 153; p. 1034.
Curtain-fixture. H. E. Keeler. No. 957,345; May 10; Sp. p. 1835; Gaz. vol. 154; p. 320.
Curtain-fixture. H. E. Keeler. No. 957,346; May 10; Sp. p. 1840; Gaz. vol. 154; p. 320.
Curtain-fixture. L. F. and W. G. Vogt. No. 962,275; June 21; Sp. p. 4278; Gaz. vol. 155; p. 739.
Curtain-fixture. H. Reubel. No. 965,658; July 26; Sp. p. 5757; Gaz. vol. 156; p. 979.
Curtain-fixture. C. L. Hopkins. No. 967,920; Aug. 23; Sp. p. 4412; Gaz. vol. 157; p. 777.
Curtain-fixture. C. McDonner. No. 977,962; Dec. 6; Sp. p. 1182; Gaz. vol. 161; p. 188.
Curtain-fixture. H. E. Keeler. No. 978,379; Dec. 13; Sp. p. 2079; Gaz. vol. 161; p. 363.
Curtain-fixture. D. E. Bonner. No. 979,252; Dec. 20; Sp. p. 4004; Gaz. vol. 161; p. 688.
Curtain-fixture, Adjustable. H. L. Saucier. No. 951,260; Mar. 8; Sp. p. 1608; Gaz. vol. 152; p. 287.
Curtain-guide. L. E. Hynes. No. 953,837; Apr. 5; Sp. p. 311; Gaz. vol. 153; p. 55.
Curtain-guide. J. E. Smith. No. 970,130; Sept. 13; Sp. p. 2109; Gaz. vol. 158; p. 359.
Curtain-hanger. O. A. Willet. No. 978,095; Dec. 6; Sp. p. 1448; Gaz. vol. 161; p. 234.
Curtain-hoisting apparatus. A. M. Coyle. No. 959,999; May 31; Sp. p. 7750; Gaz. vol. 154; p. 1305.
Curtain-holder. J. B. Bouchard and G. A. Benoit. No. 967,317; Aug. 16; Sp. p. 3176; Gaz. vol. 157; p. 549.
Curtain-holder. P. Heffler. No. 970,819; Sept. 20; Sp. p. 3618; Gaz. vol. 158; p. 618.
Curtain holder and releaser. L. E. Bukey and R. Davis. No. 955,051; Apr. 12; Sp. p. 2944; Gaz. vol. 153; p. 499.
Curtain-holding device. C. L. Hopkins. No. 967,382; Aug. 16; Sp. p. 3307; Gaz. vol. 157; p. 572.
Curtain-holding device. C. L. Hopkins. No. 972,450; Oct. 11; Sp. p. 2016; Gaz. vol. 159; p. 354.
Curtain-operating means. D. M. Sarkisian. No. 978,219; Dec. 13; Sp. p. 1738; Gaz. vol. 161; p. 306.
Curtain-operating means. D. M. Sarkisian. No. 978,220; Dec. 13; Sp. p. 1740; Gaz. vol. 161; p. 306.
Curtain-pole. F. J. Coleman. No. 954,021; Apr. 5; Sp. p. 666; Gaz. vol. 153; p. 119.
Curtain-pole. B. F. Randolph. No. 955,607; Apr. 19; Sp. p. 4135; Gaz. vol. 153; p. 719.
Curtain-pole. L. Hay. No. 962,344; June 21; Sp. p. 4423; Gaz. vol. 155; p. 762.
Curtain-pole. C. L. Kuhl. No. 962,361; June 21; Sp. p. 4450; Gaz. vol. 155; p. 767.
Curtain-pole. J. Schopen. No. 962,787; June 28; Sp. p. 5392; Gaz. vol. 155; p. 941.
Curtain-pole. J. H. Boyd. No. 964,204; July 12; Sp. p. 2561; Gaz. vol. 156; p. 422.
Curtain-pole. C. Hunt. No. 976,128; Nov. 15; Sp. p. 4461; Gaz. vol. 160; p. 755.
Curtain-pole and shade-roller supporting bracket, Combined. J. Svanda. No. 951,225; Mar. 8; Sp. p. 1536; Gaz. vol. 152; p. 276.
Curtain-pole and shade-roller supporting device. A. Pagnard, M. Munson, and F. Glauser. No. 963,467; July 5; Sp. p. 1011; Gaz. vol. 156; p. 152.
Curtain-pole bracket. B. Luttich. No. 948,787; Feb. 8; Sp. p. 2142; Gaz. vol. 151; p. 364.
Curtain-pole bracket. C. F. Laun. No. 953,912; Apr. 5; Sp. p. 452; Gaz. vol. 153; p. 82.
Curtain-pole bracket, Adjustable. C. Kirkbride. No. 948,687; Feb. 8; Sp. p. 1921; Gaz. vol. 151; p. 330.
Curtain-pole carrier. J. Kroder. No. 975,257; Nov. 8; Sp. p. 2666; Gaz. vol. 160; p. 431.
Curtain-pole carrier. C. S. McBride. No. 978,609; Dec. 13; Sp. p. 2601; Gaz. vol. 161; p. 443.
Curtain pole, Lace-. W. T. Thurber. No. 952,154; Mar. 15; Sp. p. 3422; Gaz. vol. 152; p. 615.
Curtain-poles and shade-rollers, Bracket for supporting. A. S. Debose. No. 945,494; Jan. 4; Sp. p. 1062; Gaz. vol. 150; p. 164.
Curtain-ring. E. Gilmore. No. 971,263; Sept. 27; Sp. p. 4524; Gaz. vol. 158; p. 791.
Curtain ring and hook. A. M. Clerk. No. 959,921; May 31; Sp. p. 7561; Gaz. vol. 154; p. 1277.
Curtain-rod. J. W. McMahon. No. 951,832; Mar. 15; Sp. p. 2784; Gaz. vol. 152; p. 508.
Curtain-rod. W. H. Walters. No. 961,352; June 14; Sp. p. 2296; Gaz. vol. 155; p. 405.
Curtain-rod. C. W. Kirsch. No. 964,653; July 19; Sp. p. 3538; Gaz. vol. 156; p. 606.
Curtain-rod. H. H. Malkasian. No. 969,110; Aug. 30; Sp. p. 6955; Gaz. vol. 157; p. 1211.
Curtain-rod. H. Benoit. No. 976,625; Nov. 22; Sp. p. 5613; Gaz. vol. 160; p. 949.
Curtain-rod connection. F. L. Lathrop. No. 974,398; Nov. 1; Sp. p. 716; Gaz. vol. 160; p. 108.
Curtain-rods, &c., Connection for. F. L. Lathrop. No. 972,544; Oct. 11; Sp. p. 2241; Gaz. vol. 159; p. 387.
Curtain-roller. E. Reukauf, Sr. No. 955,691; Apr. 19; Sp. p. 4326; Gaz. vol. 153; p. 748.
Curtain-roller and curtain-pole supporter, Combined extensible. J. W. Thoreau. No. 950,034; Feb. 22; Sp. p. 4813; Gaz. vol. 151; p. 847.
Curtain-roller, Automatic. E. Döring. No. 958,605; May 17; Sp. p. 4772; Gaz. vol. 154; p. 783.
Curtain, screen, and the like, Window-. W. B. Knapp. No. 963,900; July 12; Sp. p. 1948; Gaz. vol. 156; p. 320.
Curtain, Storm-. I. L. Taylor. No. 970,135; Sept. 13; Sp. p. 2120; Gaz. vol. 158; p. 361.
Curtain-stretcher. J. S. Heeley. No. 960,012; May 31; Sp. p. 7784; Gaz. vol. 154; p. 1310.
Curtain-stretcher. W. Schwab. No. 963,185; July 5; Sp. p. 401; Gaz. vol. 156; p. 57.
Curtain-stretcher. C. K. Hicks. No. 973,196; Oct. 18; Sp. p. 3747; Gaz. vol. 159; p. 640.
Curtain-stretcher. S. Rokosz. No. 979,205; Dec. 20; Sp. p. 3885; Gaz. vol. 161; p. 672.
Curtain-support. J. G. Rose and W. L. Rhoads. No. 968,807; Aug. 30; Sp. p. 6349; Gaz. vol. 157; p. 1106.
Curtain-support, Adjustable. C. R. Meyer. No. 949,936; Feb. 22; Sp. p. 4542; Gaz. vol. 151; p. 811.
Curtain-support, Vertically-adjustable. T. O. Grills. No. 945,324; Jan. 4; Sp. p. 693; Gaz. vol. 150; p. 108.
Curtains and the like, Device for suspending. E. Andreae. No. 954,369; Apr. 5; Sp. p. 1425; Gaz. vol. 153; p. 237.
Curtains and the like, Forming holes in. F. S. Carr. No. 968,122; Aug. 23; Sp. p. 4861; Gaz. vol. 157; p. 844.
Curve, Adjustable irregular. A. Gasparich. No. 962,896; June 28; Sp. p. 5592; Gaz. vol. 155; p. 978.
Curve-scriber. O. A. Zeier. No. 956,920; May 3; Sp. p. 916; Gaz. vol. 154; p. 145.
Cushion: *See* Bed-pan cushion; Billiard-table cushion; Heel-cushion; Knee-cushion; Pneumatic cushion; Seat-cushion; Spring-cushion; Vehicle pneumatic cushion.
Cushion. F. P. D'Arcy. No. 955,324; Apr. 19; Sp. p. 3511; Gaz. vol. 153; p. 622.
Cushion. F. Greer. No. 963,757; July 12; Sp. p. 1614; Gaz. vol. 156; p. 272.
Cushion-cap for finger-keys. H. M. Hay. No. 974,488; Nov. 1; Sp. p. 955; Gaz. vol. 160; p. 142.
Cushion edge. F. H. Hampton. No. 958,115; May 17; Sp. p. 3638; Gaz. vol. 154; p. 613.
Cushion edge. F. H. Hampton. No. 958,116; May 17; Sp. p. 3640; Gaz. vol. 154; p. 614.
Cushion-edge support. F. H. Hampton. No. 947,907; Feb. 1; Sp. p. 270; Gaz. vol. 151; p. 45.

Alphabetical list of inventions—Continued.

Cushion-tire wheel. C. A. Marien. No. 979,869; Dec. 27; Sp. p. 5321; Gaz. vol. 161; p. 920.
Cushion-tire wheel. C. A. Marien. No. 979,870; Dec. 27; Sp. p. 5322; Gaz. vol. 161; p. 920.
Cushion-wheel. R. E. Cole. No. 960,154; May 31; Sp. p. 8071; Gaz. vol. 154; p. 1357.
Cushion-wheel. R. E. Boring. No. 969,596; Sept. 6; Sp. p. 961; Gaz. vol. 158; p. 152.
Cuspidor. V. H. Hobson. No. 952,247; Mar. 15; Sp. p. 3594; Gaz. vol. 152; p. 647.
Cuspidor. J. Meyerhoff. No. 953,791; Apr. 5; Sp. p. 216; Gaz. vol. 153; p. 39.
Cuspidor. J. Orszag. No. 956,407; Apr. 26; Sp. p. 5895; Gaz. vol. 153; p. 1025.
Cuspidor. L. Horvath. No. 956,492; Apr. 26; Sp. p. 6094; Gaz. vol. 153; p. 1054.
Cuspidor. H. L. Nier. No. 958,524; May 17; Sp. p. 4612; Gaz. vol. 154; p. 757.
Cuspidor. F. J. Cross. No. 959,117; May 24; Sp. p. 5862; Gaz. vol. 154; p. 982.
Cuspidor. G. D. Bulmer. No. 963,511; July 5; Sp. p. 1096; Gaz. vol. 156; p. 167.
Cuspidor. C. A. Wagner. No. 964,193; July 12; Sp. p. 2538; Gaz. vol. 156; p. 418.
Cuspidor. A. Toward. No. 964,339; July 12; Sp. p. 2841; Gaz. vol. 156; p. 468.
Cuspidor. G. Laimer. No. 964,437; July 12; Sp. p. 3024; Gaz. vol. 156; p. 499.
Cuspidor. E. Johnson. No. 964,472; July 12; Sp. p. 3100; Gaz. vol. 156; p. 509.
Cuspidor. R. A. McCarty. No. 964,930; July 19; Sp. p. 4207; Gaz. vol. 156; p. 702.
Cuspidor. L. B. Horváth and P. Kotrucz. No. 965,109; July 19; Sp. p. 4562; Gaz. vol. 156; p. 761.
Cuspidor. M. Harman. No. 966,330; Aug. 2; Sp. p. 1008; Gaz. vol. 157; p. 163.
Cuspidor. W. W. Grigsby. No. 967,368; Aug. 16; Sp. p. 3282; Gaz. vol. 157; p. 568.
Cuspidor. S. Borisz. No. 968,320; Aug. 23; Sp. p. 3304; Gaz. vol. 157; p. 914.
Cuspidor. P. Baré. No. 969,742; Sept. 6; Sp. p. 1268; Gaz. vol. 158; p. 203.
Cuspidor. H. E. Weber. No. 970,148; Sept. 13; Sp. p. 2141; Gaz. vol. 158; p. 365.
Cuspidor. L. Jakab. No. 972,081; Oct. 4; Sp. p. 1233; Gaz. vol. 159; p. 209.
Cuspidor. C. Gerencier. No. 973,189; Oct. 18; Sp. p. 3732; Gaz. vol. 159; p. 637.
Cuspidor. P. A. Petrie. No. 975,890; Nov. 15; Sp. p. 3990; Gaz. vol. 160; p. 673.
Cuspidor. M. Mansor. No. 978,765; Dec. 13; Sp. p. 2917; Gaz. vol. 161; p. 493.
Cuspidor. C. E. Bowers. No. 979,924; Dec. 27; Sp. p. 5425; Gaz. vol. 161; p. 938.
Cuspidor. S. B. McDonald. No. 979,980; Dec. 27; Sp. p. 5534; Gaz. vol. 161; p. 955.
Cuspidor, Cabinet-. P. Johnson. No. 963,443; July 5; Sp. p. 964; Gaz. vol. 156; p. 144.
Cuspidor-cleaner. N. and C. Caruso. No. 951,591; Mar. 8; Sp. p. 2290; Gaz. vol. 152; p. 397.
Cuspidor-cleaner. O. O. Ritzlaff. No. 953,860; Apr. 5; Sp. p. 358; Gaz. vol. 153; p. 64.
Cuspidor-cleaner. E. Huddart. No. 956,641; May 3; Sp. p. 286; Gaz. vol. 154; p. 48.
Cuspidor-cleaner. H. Malick. No. 962,370; June 21; Sp. p. 4466; Gaz. vol. 155; p. 770.
Cuspidor for railway-cars, Sanitary. J. L. Oglebay. No. 951,330; Mar. 8; Sp. p. 1765; Gaz. vol. 152; p. 310.
Cuspidor, Fountain-. J. D. Wilson. No. 975,308; Nov. 8; Sp. p. 2781; Gaz. vol. 160; p. 449.
Cuspidor, Non-spilling. G. Pastors. No. 962,852; June 28; Sp. p. 5504; Gaz. vol. 155; p. 963.
Cuspidor, Sanitary. H. G. Cathcart. No. 946,853; Jan. 18; Sp. p. 4131; Gaz. vol. 150; p. 684.
Cuspidor, Sanitary. M. F. Troy. No. 963,664; July 5; Sp. p. 1396; Gaz. vol. 156; p. 218.
Cuspidors and like articles, Stand for. M. Fiset. No. 975,941; Nov. 15; Sp. p. 4093; Gaz. vol. 160; p. 690.
Cut-off. J. A. Curtis. No. 946,634; Jan. 18; Sp. p. 3630; Gaz. vol. 150; p. 609.
Cut-off and filter, Automatic. F. J. Crane. No. 959,315; May 24; Sp. p. 6263; Gaz. vol. 154; p. 1048.
Cut-off, Automatic. P. S. Capel. No. 966,997; Aug. 9; Sp. p. 2514; Gaz. vol. 157; p. 413.
Cut-out, Automatic. V. G. Apple. No. 968,310; Aug. 23; Sp. p. 5280; Gaz. vol. 157; p. 910.
Cut-off. Automatic. W. C. Coleman. No. 976,724; Nov. 22; Sp. p. 5798; Gaz. vol. 160; p. 982.
Cut-off, Automatic. J. C. Dupee. No. 977,858; Dec. 6; Sp. p. 956; Gaz. vol. 161; p. 150.
Cut-off for down-spouts or conductors. T. B. Burgert. No. 949,972; Feb. 22; Sp. p. 4618; Gaz. vol. 151; p. 824.
Cut-off machine. J. McIntosh. No. 977,669; Dec. 6; Sp. p. 563; Gaz. vol. 161; p. 86.
Cut-off, Spout. E. J. Schweig. No. 954,891; Apr. 12; Sp. p. 2625; Gaz. vol. 153; p. 446.
Cut-out. J. G. Swallow. No. 946,409; Jan. 11; Sp. p. 3163; Gaz. vol. 150; p. 509.
Cut-out. J. L. Smith. No. 953,558; Mar. 29; Sp. p. 6406; Gaz. vol. 152; p. 1148.
Cut-out and metering apparatus, Service. T. E. Murray. No. 962,455; June 28; Sp. p. 4674; Gaz. vol. 155; p. 825.
Cut-out and switch-block holder, Universal. E. R. Le Manquais. No. 974,681; Nov. 1; Sp. p. 1364; Gaz. vol. 160; p. 212.
Cut-out, Automatic. N. A. Wright. No. 971,872; Oct. 4; Sp. p. 769; Gaz. vol. 159; p. 133.
Cutlery. F. W. Sherman. No. 950,352; Feb. 22; Sp. p. 5440; Gaz. vol. 151; p. 954.
Cutlery-cleaning machine, Table-. A. Uhlyarik. No. 958,843; May 24; Sp. p. 5284; Gaz. vol. 154; p. 891.
Cutter: *See* Apple-cutter; Band-cutter; Bank-note cutter; Bar-cutter; Biscuit-cutter; Brush-cutter; Butter-cutter; Buttonhole-cutter; Cheese-cutter; Cigar-cutter; Cigar-tip cutter; Cigar-wrapper cutter; Cloth-cutter; Cork and bung cutter; Dog-ear cutter; Dough-cutter; Dredge-cutter; Envelop-cutter; Flue-cutter; Fodder-cutter; Food-cutter; Fruit-cutter; Gear-cutter; Glass-cutter; Glass-gage cutter; Grass-cutter; Grass and ditch-line cutter; Harvester-cutter; Harvesting-machine cutter; Ice-cream cutter; Kraut-cutter; Lard-cutter; Material-cutter; Milling-cutter; Miter-cutter; Noodle-cutter; Nut-cutter; Paper-cutter; Pencil-sharpener cutter; Pipe-cutter; Pipe and the like cutter; Potato-cutter; Potato-eye cutter; Potato-vine cutter; Railway weed-cutter; Revolving cutter; Rotary cutter; Runner-cutter; Sage-brush cutter; Stalk-cutter; Strip-cutter; Thread-cutter; Threshing-machine band-cutter; Tire-bolt cutter; Tobacco-cutter; Tongue and groove cutter; Tooth-cutter; Trocha-cutter; Tube-cutter; Twine-cutter; Valve-cutter; Vegetable-cutter; Veneer-machine cutter; Weed-cutter; Wire-cutter; Wire-cable cutter; Wood-cutter; Woodworking-cutter.
Cutter. R. L. Dorsey. No. 958,377; May 17; Sp. p. 4323; Gaz. vol. 154; p. 706.
Cutter and stamping die. H. G. Ballou. No. 976,139; Nov. 22; Sp. p. 4506; Gaz. vol. 160; p. 781.
Cutter-bar. A. Dahms. No. 951,985; Mar. 15; Sp. p. 3104; Gaz. vol. 152; p. 560.
Cutter-bar. J. H. Poole and A. D. Abbenzeller. No. 965,654; July 26; Sp. p. 5751; Gaz. vol. 156; p. 978.
Cutter-bar. J. H. Poole and A. D. Abbenzeller. No. 974,595; Nov. 1; Sp. p. 1184; Gaz. vol. 160; p. 181.
Cutter-bar. J. H. Poole and A. D. Abbenzeller. No. 974,707; Nov. 1; Sp. p. 1433; Gaz. vol. 160; p. 221.
Cutter bit-changing means, Rotary-. E. C. Morgan. No. 975,563; Nov. 15; Sp. p. 3315; Gaz. vol. 160; p. 563.
Cutter-guard. E. Andre. No. 961,198; June 14; Sp. p. 1940; Gaz. vol. 155; p. 351.
Cutter-head. F. O. Wells. No. 947,319; Jan. 25; Sp. p. 5143; Gaz. vol. 150; p. 868.
Cutter-head. A. B. Landis. No. 948,888; Feb. 8; Sp. p. 2334; Gaz. vol. 151; p. 397.
Cutter-head. A. B. Landis. No. 948,889; Feb. 8; Sp. p. 2339; Gaz. vol. 151; p. 398.
Cutter-head. A. B. Landis. No. 948,890; Feb. 8; Sp. p. 2344; Gaz. vol. 151; p. 398.
Cutter-head. A. B. Landis. No. 948,891; Feb. 8; Sp. p. 2347; Gaz. vol. 151; p. 399.
Cutter-head. A. B. Landis. No. 948,893; Feb. 8; Sp. p. 2352; Gaz. vol. 151; p. 400.
Cutter-head. M. H. Lyons. No. 949,126; Feb. 15; Sp. p. 2841; Gaz. vol. 151; p. 502.
Cutter-head. F. K. Sondergard. No. 972,479; Oct. 11; Sp. p. 2087; Gaz. vol. 159; p. 363.
Cutter-head. J. H. Burke. No. 974,234; Nov. 1; Sp. p. 342; Gaz. vol. 160; p. 49.
Cutter-head. G. F. Wilson. No. 977,989; Dec. 6; Sp. p. 1222; Gaz. vol. 161; p. 196.
Cutter-head for bolt-cutting machines. A. B. Landis. No. 948,886; Feb. 8; Sp. p. 2328; Gaz. vol. 151; p. 396.
Cutter-head, Rotary. J. J. W. Alexander. No. 971,812; Oct. 4; Sp. p. 628; Gaz. vol. 159; p. 110.
Cutter-head setting and gaging device and stand. C. W. H. Blood and C. G. Osteman. No. 954,712; Apr. 12; Sp. p. 2185; Gaz. vol. 153; p. 382.
Cutter mechanism. A. Teal. No. 946,810; Jan. 18; Sp. p. 4031; Gaz. vol. 150; p. 669.
Cutters, Rest-gage for. G. W. M. Smith and F. F. Braun. No. 951,972; Mar. 15; Sp. p. 3075; Gaz. vol. 152; p. 555.
Cutting and folding machine. E. H. Cottrell. No. 974,360; Nov. 1; Sp. p. 647; Gaz. vol. 160; p. 97.
Cutting and pruning tool. P. P. B. Brooks. No. 958,587; May 17; Sp. p. 4731; Gaz. vol. 154; p. 777.
Cutting apparatus. J. H. Wood. No. 947,724; Jan. 25; Sp. p. 6024; Gaz. vol. 150; p. 1003.
Cutting apparatus. G. W. Flora. No. 960,874; June 7; Sp. p. 1278; Gaz. vol. 155; p. 214.
Cutting apparatus. J. Guzowski. No. 972,852; Oct. 18; Sp. p. 2919; Gaz. vol. 159; p. 519.
Cutting-board. F. S. Sherman. No. 946,619; Jan. 18; Sp. p. 3594; Gaz. vol. 150; p. 605.
Cutting-board and clamp. O. G. Payne. No. 977,544; Dec. 6; Sp. p. 302; Gaz. vol. 161; p. 44.
Cutting-board attachment. L. B. Nicholson. No. 951,022; Mar. 1; Sp. p. 1147; Gaz. vol. 152; p. 187.
Cutting-die. H. C. Gros. No. 967,871; Aug. 16; Sp. p. 4303; Gaz. vol. 157; p. 736.
Cutting head and bit. F. M. Ross. No. 976,301; Nov. 22; Sp. p. 4920; Gaz. vol. 160; p. 838.
Cutting internal flutes. Machine for. D. E. Ross. No. 961,537; June 14; Sp. p. 2684; Gaz. vol. 155; p. 466.

Alphabetical list of inventions—Continued.

Cutting irregular forms, Machine for. A. M. Stickney. No. 961,907; June 21; Sp. p. 3464; Gaz. vol. 155; p. 615.
Cutting irregular forms, Machine for. A. M. Stickney. No. 975,652; Nov. 15; Sp. p. 3509; Gaz. vol. 160; p. 593.
Cutting-machine. W. H. Stubblefield. No. 946,569; Jan. 18; Sp. p. 3490; Gaz. vol. 150; p. 587.
Cutting-machine. J. Slaybaugh and J. Aff. No. 954,705; Apr. 12; Sp. p. 2169; Gaz. vol. 153; p. 379.
Cutting-machine. J. H. F. Clifton. No. 957,747; May 10; Sp. p. 2642; Gaz. vol. 154; p. 455.
Cutting-machine. C. H. Reeder. No. 968,196; Aug. 23; Sp. p. 5038; Gaz. vol. 157; p. 868.
Cutting-machine. M. E. Ryan. No. 978,217; Dec. 13; Sp. p. 1735; Gaz. vol. 161; p. 305.
Cutting-machine. G. F. Dickson. No. 980,145; Dec. 27; Sp. p. 5921; Gaz. vol. 161; p. 1011.
Cutting-machine guard. S. B. Blanchard, D. B. Uhl, and F. W. Koch. No. 956,564; May 3; Sp. p. 118; Gaz. vol. 154; p. 22.
Cutting mechanism. E. P. Sheldon. No. 951,490; Mar. 8; Sp. p. 2101; Gaz. vol. 152; p. 363.
Cutting mechanism. E. W. Cooper. No. 971,022; Sept. 27; Sp. p. 3999; Gaz. vol. 158; p. 711.
Cutting-mill. G. A. and C. T. Engle. No. 949,116; Feb. 15; Sp. p. 2818; Gaz. vol. 151; p. 499.
Cutting-off tool. L. J. Matzner. No. 955,466; Apr. 19; Sp. p. 3818; Gaz. vol. 153; p. 671.
Cutting-off tool. V. St. John. No. 976,755; Nov. 22; Sp. p. 5883; Gaz. vol. 160; p. 993.
Cutting-table. W. J. MacFarland and W. G. Eaton. No. 950,002; Feb. 22; Sp. p. 4732; Gaz. vol. 151; p. 835.
Cutting-tool. W. Smith. No. 945,627; Jan. 4; Sp. p. 1332; Gaz. vol. 150; p. 207.
Cutting-tool. O. M. Pollock. No. 966,356; Aug. 2; Sp. p. 1061; Gaz. vol. 157; p. 271.
Cutting-tool. J. A. Smith. No. 967,683; Aug. 16; Sp. p. 3919; Gaz. vol. 157; p. 673.
Cutting-tool and gage, Combined. J. S. Duffy. No. 972,757; Oct. 11; Sp. p. 2707; Gaz. vol. 159; p. 460.
Cutting-tools, Adjustable reversing attachment and feed for. J. H. Gebhardt. No. 971,262; Sept. 27; Sp. p. 4522; Gaz. vol. 158; p. 791.
Cutting-wheel. W. W. Tainter and G. P. Stanley. No. 953,359; Mar. 29; Sp. p. 5991; Gaz. vol. 152; p. 1077.
Cycle attachment, Motor-. A. W. Edwards. No. 958,607; May 17; Sp. p. 4774; Gaz. vol. 154; p. 783.
Cycle belt-tightener, Motor-. G. H. Meiser. No. 948,181; Feb. 1; Sp. p. 822; Gaz. vol. 151; p. 135.
Cycle drive mechanism, Motor-. W. G. Schaeffer. No. 965,950; Aug. 2; Sp. p. 208; Gaz. vol. 157; p. 36.
Cycle frame, Motor-. E. W. Keller. No. 946,758; Jan. 18; Sp. p. 3900; Gaz. vol. 150; p. 650.
Cycle frame, Motor-. C. L. W. Huser. No. 948,507; Feb. 8; Sp. p. 1534; Gaz. vol. 151; p. 271.
Cycle gearing, Motor-. F. S. Jones. No. 971,756; Oct. 4; Sp. p. 519; Gaz. vol. 159; p. 90.
Cycle hub with brake mechanism, Free-wheel-. E. Sachs. No. 960,710; June 7; Sp. p. 957; Gaz. vol. 155; p. 159.
Cycle, Motor-. L. D. Robinson. No. 948,250; Feb. 1; Sp. p. 962; Gaz. vol. 151; p. 158.
Cycle, Motor-. L. H. Allen. No. 962,289; June 21; Sp. p. 4303; Gaz. vol. 155; p. 743.
Cycle, Motor-. F. F. Bingham. No. 971,166; Sept. 27; Sp. p. 4311; Gaz. vol. 158; p. 758.
Cycle-motor, Two-stroke. A. Peugeot, T. Huber, and H. de Lostalot. No. 961,315; June 14; Sp. p. 2212; Gaz. vol. 155; p. 392.
Cycle-pedal. G. I. Francis. No. 955,957; Apr. 26; Sp. p. 4916; Gaz. vol. 153; p. 868.
Cycle saddle, Motor-. F. Mesinger. No. 969,791; Sept. 13; Sp. p. 1389; Gaz. vol. 158; p. 244.
Cycle saddles, Mounting for motor-. S. Busch. No. 975,827; Nov. 15; Sp. p. 3857; Gaz. vol. 160; p. 651.
Cycle shock-absorber, Motor-. E. Loudenclos. No. 962,443; June 28; Sp. p. 4652; Gaz. vol. 155; p. 821.
Cycle stand, Motor-. W. S. Harley. No. 946,037; Jan. 11; Sp. p. 2282; Gaz. vol. 150; p. 379.
Cycle stand, Motor-. A. Lundstrom. No. 962,369; June 21; Sp. p. 4464; Gaz. vol. 155; p. 770.
Cycles, Adjustable crank-hanger for motor-. A. L. Walters. No. 950,197; Feb. 22; Sp. p. 5136; Gaz. vol. 151; p. 902.
Cycles and other self-propelled vehicles, Seat for motor-. C. R. Kittle. No. 971,848; Oct. 4; Sp. p. 713; Gaz. vol. 159; p. 124.
Cycles and other vehicles, Brake for motor-driven. H. and A. Dufaux. No. 953,126; Mar. 29; Sp. p. 5484; Gaz. vol. 152; p. 1001.
Cycles, Apparatus for utilizing the force of the wind for propelling. J. Couder. No. 947,731; Jan. 25; Sp. p. 6035; Gaz. vol. 150; p. 1006.
Cycles, Belt-tightener for motor-. W. S. Harley. No. 973,426; Oct. 18; Sp. p. 4218; Gaz. vol. 159; p. 718.
Cycles, Combination rear seat and carrier for motor-. F. P. Fentress. No. 965,093; July 19; Sp. p. 4534; Gaz. vol. 156; p. 756.
Cycles, Combined free-wheel clutch and back-pedaling band-brake for. T. C. Hancock. No. 952,041; Mar. 15; Sp. p. 3212; Gaz. vol. 152; p. 578.
Cycles, &c., Saddle-support for motor-. C. E. Becker. No. 970,458; Sept. 20; Sp. p. 2789; Gaz. vol. 158; p. 490.
Cycles, Speed-regulating pulley for motor-. G. H. Pertuiset. No. 976,596; Nov. 22; Sp. p. 5559; Gaz. vol. 160; p. 939.
Cycles, Transmission mechanism for motor-. P. S. Bushnell. No. 948,623; Feb. 8; Sp. p. 1792; Gaz. vol. 151; p. 307.
Cylinder-cooling means. G. D. Warren. No. 960,457; June 7; Sp. p. 426; Gaz. vol. 155; p. 73.
Cylinder-drier. E. J. Crowson. No. 979,827; Dec. 27; Sp. p. 5221; Gaz. vol. 161; p. 906.
Cylinder-lock. H. G. Voight. No. 978,964; Dec. 20; Sp. p. 3337; Gaz. vol. 161; p. 587.
Cylinder lubrication. J. G. Leyner. No. 958,260; May 17; Sp. p. 3938; Gaz. vol. 154; p. 663.
Cylinder-lubricator. C. C. League. No. 948,455; Feb. 8; Sp. p. 1413; Gaz. vol. 151; p. 252.
Cylinder-lubricator. F. B. Hubbard. No. 948,882; Feb. 8; Sp. p. 2319; Gaz. vol. 151; p. 395.
Cylinder-machine. H. Caara. No. 962,208; June 21; Sp. p. 4129; Gaz. vol. 155; p. 717.
Cylinder-press. E. P. Klug. No. 955,647; Apr. 19; Sp. p. 4230; Gaz. vol. 153; p. 733.
Cylinder steam-joint, Rotary-. F. L. Allen. No. 967,298; Aug. 16; Sp. p. 3137; Gaz vol. 157; p. 543.
Cylinders, Balanced steam fitting or joint for journals of rotary steam-. A. Aldrich. No. 967,294; Aug. 16; Sp. p. 3124; Gaz. vol. 157; p. 541.
Cylinders, Controlling mechanism for working. H. C. Randall. No. 971,143; Sept. 27; Sp. p. 4266; Gaz. vol. 158; p. 751.
Cylinders, Making toothed. E. J. O'Brien. No. 957,440; May 10; Sp. p. 2029; Gaz. vol. 154; p. 352.
Cylinders, Pressure-equalizing mechanism for. G. W. Nistle. No. 957,241; May 10; Sp. p. 1605; Gaz. vol. 154; p. 283.
Dado-machine. P. L. Billingsley. No. 955,749; Apr. 19; Sp. p. 4447; Gaz. vol. 153; p. 767.
Dam. H. L. Cooper No. 968,130; Aug. 23; Sp. p. 4880; Gaz. vol. 157; p. 847.
Dam and apparatus for constructing the same. H. L. Cooper. No. 955,851; Apr. 26; Sp. p. 4675; Gaz. vol. 153; p. 832.
Dam, Bridge-. S. A. Vancil. No. 974,315; Nov. 1; Sp. p. 541; Gaz. vol. 160; p. 80.
Dams, Device for lowering and hoisting head-gates for. N. Isachson. No. 958,401; May 17; Sp. p. 4371; Gaz. vol. 154; p. 714.
Dams, docks, and similar water-retaining or water-excluding structures, Constructing. T. H. Skinner. No. 973,821; Oct. 25; Sp. p. 5047; Gaz. vol. 159; p. 878.
Dams, Movable crest for. P. and A. Savard. No. 968,082; Aug. 23; Sp. p. 4776; Gaz. vol. 157; p. 831.
Dams, &c., Raking mechanism for. O. Wunder. No. 960,613; June 7; Sp. p. 759; Gaz. vol. 155; p. 126.
Dampener, Clothes-. R. L. Free. No. 978,727; Dec. 13; Sp. p. 2839; Gaz. vol. 161; p. 482.
Dampening-machine. T. F. Minahan. No. 951,425; Mar. 8; Sp. p. 1962; Gaz. vol. 152; p. 341.
Dampening-machine. A. T. Hagen and D. M. Cooper. No. 969,688; Sept. 6; Sp. p. 1135; Gaz. vol. 158; p. 183.
Dampening-machine. H. C. Miller. No. 972,125; Oct. 4; Sp. p. 1318; Gaz. vol. 159; p. 223.
Dampening machine, Collar-. H. C. Miller. No. 972,124; Oct. 4; Sp. p. 1313; Gaz. vol. 159; p. 222.
Dampening the extra-thick end seams of collars, Machine for. H. C. Miller. No. 972,084; Oct. 4; Sp. p. 1237; Gaz. vol. 159; p. 210.
Damper. N. Pruitt. No. 969,188; Sept. 6; Sp. p. 96; Gaz. vol. 158; p. 16.
Damper. J. C. F. Schafer. No. 980,011; Dec. 27; Sp. p. 5595; Gaz. vol. 161; p. 967.
Damper-actuating mechanism, Time-controlled. E. F. Gardner. No. 979,148; Dec. 20; Sp. p. 3775; Gaz. vol. 161; p. 653.
Damper, Air-pipe. W. Leo and J. C. Bayer. No. 971,285; Sept. 27; Sp. p. 4559; Gaz. vol. 158; p. 797.
Damper and air-regulator. E. A. Midgley. No. 954,643; Apr. 12; Sp. p. 2034; Gaz. vol. 153; p. 358.
Damper apparatus, Time. G. R. Young. No. 954,069; Apr. 5; Sp. p. 776; Gaz. vol. 153; p. 135.
Damper, Automatic. A. W. Arnold. No. 970,598; Sept. 20; Sp. p. 3094; Gaz. vol. 158; p. 539.
Damper-clip. C. D. Wagner. No. 947,505; Jan. 25; Sp. p. 5603; Gaz. vol. 150; p. 930.
Damper control, Automatic. H. Peterson. No. 956,542; May 3; Sp. p. 80; Gaz. vol. 154; p. 14.
Damper device. H. and G. A. Graves. No. 974,876; Nov. 8; Sp. p. 1808; Gaz. vol. 160; p. 300.
Damper or draft controlling device. C. F. Johnson. No. 961,615; June 14; Sp. p. 2842; Gaz. vol. 155; p. 491.
Damper-regulating apparatus. J. B. Crandon. No. 965,569; July 26; Sp. p. 5576; Gaz. vol. 156; p. 949.
Damper-regulating apparatus, Thermostatic. B. C. Wickes. No. 952,855; Mar. 22; Sp. p. 4905; Gaz. vol. 152; p. 883.
Damper-regulating mechanism. B. C. Wickes. No. 964,892; July 19; Sp. p. 4136; Gaz. vol. 156; p. 688.
Damper-regulator. C. Ambruster and H. M. Peck. No. 954,493; Apr. 12; Sp. p. 1709; Gaz. vol. 153; p. 307.
Damper-regulator. J. A. Collins. No. 969,939; Sept. 13; Sp. p. 1714; Gaz. vol. 158; p. 295.

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Dandelion-destroyer. L. C. McAllister. No. 954,126; Apr. 5; Sp. p. 889; Gaz. vol. 153; p. 154.
Dandelion-killer. J. S. Foulke and T. J. Flavin. No. 951,760; Mar. 8; Sp. p. 2634; Gaz. vol. 152; p. 455.
Dandy-roll. J. J. Plank. No. 971,787; Oct. 4; Sp. p. 579; Gaz. vol. 159; p. 101.
Darning device. J. R. Thompson. No. 961,557; June 14; Sp. p. 2722; Gaz. vol. 155; p. 473.
Darning device. R. A. Smith. No. 963,085; July 5; Sp. p. 119; Gaz. vol. 156; p. 21.
Darning, Stocking-holder for use in. A. F. Collins. No. 960,508; June 7; Sp. p. 544; Gaz. vol. 155; p. 90.
Dashboard, Vehicle-. J. F. Jaquet. No. 957,858; May 10; Sp. p. 2869; Gaz. vol. 154; p. 491.
Datum and recording sheet. S. T. Park and J. E. Phillips. No. 946,265; Jan. 11; Sp. p. 2764; Gaz. vol. 150; p. 460.
Davenport. W. W. Hopkins. No. 961,445; June 14; Sp. p. 2478; Gaz. vol. 155; p. 435.
Davenport. J. J. Vetter. No. 968,097; Aug. 23; Sp. p. 4809; Gaz. vol. 157; p. 836.
Davenport. C. J. Kindel. No. 977,883; Dec. 6; Sp. p. 1005; Gaz. vol. 161; p. 159.
Davenport and bed, Combined. J. G. Hulse and A. F. Schramm. No. 962,761; June 28; Sp. p. 5331; Gaz. vol. 155; p. 932.
Davit for hoisting and lowering boats. A. Welin. No. 958,340; May 17; Sp. p. 4250; Gaz. vol. 154; p. 693.
Davit for ships' boats and similar purposes. E. L. M. Sivard. No. 956,204; Apr. 26; Sp. p. 5461; Gaz. vol. 153; p. 956.
Dead lock and latch, Combined. P. F. Augenbraun. No. 975,013; Nov. 8; Sp. p. 2131; Gaz. vol. 160; p. 347.
Decanter. J. H. Friedenwald. No. 950,321; Feb. 22; Sp. p. 5387; Gaz. vol. 151; p. 945.
Decanting device. W. P. Kinsella. No. 949,019; Feb. 15; Sp. p. 2622; Gaz. vol. 151; p. 468.
Decanting oils and liquids, Tilting appliance for. P. T. White and G. Robertson. No. 957,829; May 10; Sp. p. 2804; Gaz. vol. 154; p. 482.
Decorated fabric. J. A. Groebli. No. 947,814; Feb. 1; Sp. p. 62; Gaz. vol. 151; p. 14.
Decorated fabric. J. A. Groebli. No. 948,050; Feb. 1; Sp. p. 567; Gaz. vol. 151; p. 91.
Decorating machine, Ceramic-. W. Silverman. No. 966,481; Aug. 9; Sp. p. 1350; Gaz. vol. 157; p. 240.
Decorative leaf and making the same. J. A. C. Fichtmueller. No. 976,694; Nov. 29; Sp. p. 6453; Gaz. vol. 160; p. 1101.
Decorative structure. W. Cunningham. No. 972,754; Oct. 11; Sp. p. 2701; Gaz. vol. 159; p. 459.
Decorticating the fibrous leaves or stems of plants, Machine for. E. Wright. No. 960,134; May 31; Sp. p. 8039; Gaz. vol. 154; p. 1350.
Decoy. C. A. Cunningham. No. 957,750; May 10; Sp. p. 2649; Gaz. vol. 154; p. 456.
Decoy. E. J. Davis. No. 977,787; Dec. 6; Sp. p. 810; Gaz. vol. 161; p. 126.
Decoy-duck. J. W. Reynolds. No. 955,203; Apr. 19; Sp. p. 3252; Gaz. vol. 153; p. 583.
Decoy, Floating. H. G. Wethall. No. 970,003; Sept. 13; Sp. p. 1866; Gaz. vol. 158; p. 317.
Deflecting-bars, Adjustable stand for. E. C. Larry. No. 962,849; June 28; Sp. p. 5499; Gaz. vol. 155; p. 962.
Deflection-recorder. C. E. Knickerbocker and W. H. Harland, Jr. No. 965,911; Aug. 2; Sp. p. 134; Gaz. vol. 157; p. 23.
Deflector. F. Stoner. No. 968,713; Aug. 30; Sp. p. 6158; Gaz. vol. 157; p. 1075.
Deflocculating insoluble bodies. E. G. Acheson. No. 964,478; July 19; Sp. p. 3127; Gaz. vol. 156; p. 545.
Dehorner. H. H. Danielson. No. 947,097; Jan. 18; Sp. p. 4637; Gaz. vol. 150; p. 765.
Delinting-machine. D. Grant. No. 964,909; July 19; Sp. p. 4171; Gaz. vol. 156; p. 695.
Delivering articles, Device for automatically. N. R. Stiles. No. 958,559; May 17; Sp. p. 4671; Gaz. vol. 154; p. 768.
Delivering materials, Apparatus for. A. E. Norris. No. 961,732; June 14; Sp. p. 3060; Gaz. vol. 155; p. 531.
Delivery-machine. J. M. Beavo. No. 976,978; Nov. 29; Sp. p. 6420; Gaz. vol. 160; p. 1096.
Delivery mechanism. W. Scott. No. 956,193; Apr. 26; Sp. p. 5440; Gaz. vol. 153; p. 952.
Delivery mechanism. W. Scott. No. 971,220; Sept. 27; Sp. p. 4438; Gaz. vol. 158; p. 777.
Dental air-pump. E. Messmer. No. 971,913; Oct. 4; Sp. p. 866; Gaz. vol. 159; p. 149.
Dental alloys, Means for casting. J. P. and F. A. Lederle. No. 946,677; Jan. 18; Sp. p. 3721; Gaz. vol. 150; p. 623.
Dental apparatus. J. C. Corcoran. No. 973,408; Oct. 18; Sp. p. 4182; Gaz. vol. 159; p. 712.
Dental appliance. W. D. Tracy. No. 969,922; Sept. 13; Sp. p. 1682; Gaz. vol. 158; p. 290.
Dental appliance. L. G. Morgan. No. 977,895; Dec. 6; Sp. p. 1031; Gaz. vol. 161; p. 164.
Dental articulator. M. Howard. No. 968,055; Aug. 23; Sp. p. 4703; Gaz. vol. 157; p. 822.
Dental aseptic tray and stand therefor. C. F. Booth. No. 950,988; Mar. 1; Sp. p. 1093; Gaz. vol. 152; p. 176.
Dental attachment. W. J. Brady. No. 957,032; May 3; Sp. p. 1153; Gaz. vol. 154; p. 182.
Dental bracket-engine. J. F. Hammond. No. 950,768; Mar. 1; Sp. p. 662; Gaz. vol. 152; p. 106.
Dental bracket-table, Sanitary. G. Holtz. No. 979,493; Dec. 27; Sp. p. 4475; Gaz. vol. 161; p. 791.
Dental bracket-tray, Sanitary. G. Holtz. No. 959,534; May 31; Sp. p. 6732; Gaz. vol. 154; p. 1146.
Dental cabinet. S. C. Sims. No. 973,573; Oct. 25; Sp. p. 4529; Gaz. vol. 159; p. 791.
Dental casting appliance. E. R. Stealy. No. 948,711; Feb. 8; Sp. p. 1972; Gaz. vol. 151; p. 338.
Dental casting-machine. W. F. Lawrenz. No. 971,855; Oct. 4; Sp. p. 729; Gaz. vol. 159; p. 127.
Dental castings, Apparatus for making. C. S. Carlberg and T. E. Ryan. No. 949,391; Feb. 15; Sp. p. 3399; Gaz. vol. 151; p. 593.
Dental chair. F. Ritter. No. 945,194; Jan. 4; Sp. p. 386; Gaz. vol. 150; p. 65.
Dental chair. H. E. Weber. No. 958,048; May 17; Sp. p. 3459; Gaz. vol. 154; p. 591.
Dental chair. F. Ritter. No. 959,608; May 31; Sp. p. 6883; Gaz. vol. 154; p. 1171.
Dental crown-forming tool. R. R. Braswell. No. 978,430; Dec. 13; Sp. p. 2189; Gaz. vol. 161; p. 379.
Dental crown-shaper. F. O. Jaques, Jr. No. 977,633; Dec. 6; Sp. p. 490; Gaz. vol. 161; p. 74.
Dental crown-swaging device. W. H. Graham. No. 946,962; Jan. 18; Sp. p. 4382; Gaz. vol. 150; p. 720.
Dental cuspidor. I. M. Hair. No. 957,671; May 10; Sp. p. 2495; Gaz. vol. 154; p. 431.
Dental engine, Electric. J. V. Trenaman. No. 955,484; Apr. 19; Sp. p. 3850; Gaz. vol. 153; p. 677.
Dental engines, Hydraulic motor for. O. L. Kellett. No. 959,352; May 24; Sp. p. 6342; Gaz. vol. 154; p. 1060.
Dental flask. D. Folb. No. 969,263; Sept. 6; Sp. p. 244; Gaz. vol. 158; p. 39.
Dental floss-holder. C. F. Booth. No. 975,205; Nov. 8; Sp. p. 2571; Gaz. vol. 160; p. 414.
Dental forceps. E. C. Lombard. No. 959,365; May 24; Sp. p. 6366; Gaz. vol. 154; p. 1064.
Dental handpiece-guard. C. Hinrichsen. No. 949,273; Feb. 15; Sp. p. 3129; Gaz. vol. 151; p. 552.
Dental hot-air appliance. W. Lamb. No. 953,042; Mar. 29; Sp. p. 5282; Gaz. vol. 152; p. 973.
Dental impression-cup. J. H. Gummo. No. 975,033; Nov. 8; Sp. p. 2176; Gaz. vol. 160; p. 354.
Dental inlays, Apparatus for casting. C. L. Kemery. No. 951,614; Mar. 8; Sp. p. 2335; Gaz. vol. 152; p. 405.
Dental instrument. E. W. Wallace. No. 951,860; Mar. 15; Sp. p. 2849; Gaz. vol. 152; p. 519.
Dental instrument. E. W. Wallace. No. 951,891; Mar. 15; Sp. p. 2921; Gaz. vol. 152; p. 528.
Dental instrument. J. L. Kelly. No. 971,382; Sept. 27; Sp. p. 4748; Gaz. vol. 158; p. 829.
Dental instrument. M. H. Toomey. No. 973,894; Oct. 25; Sp. p. 5213; Gaz. vol. 159; p. 904.
Dental instrument for crown or cap holding. J. W. Ivory. No. 979,501; Dec. 27; Sp. p. 4490; Gaz. vol. 161; p. 793.
Dental lavatory. T. Dunbar. No. 955,143; Apr. 19; Sp. p. 3122; Gaz. vol. 153; p. 560.
Dental, medical, or surgical purposes, Switchboard for. D. Stern. No. 959,641; May 31; Sp. p. 6942; Gaz. vol. 154; p. 1183.
Dental mouth-prop. W. Adelman. No. 959,684; May 31; Sp. p. 7045; Gaz. vol. 154; p. 1196.
Dental nozzle. E. S. Hodgson, Jr. No. 949,480; Feb. 15; Sp. p. 3567; Gaz. vol. 151; p. 622.
Dental plate. J. Petry. No. 963,172; July 5; Sp. p. 370; Gaz. vol. 156; p. 52.
Dental plate-swaging apparatus. C. G. Franke. No. 967,873; Aug. 16; Sp. p. 4305; Gaz. vol. 157; p. 736.
Dental plugging instrument. G. B. Snow. No. 948,484; Feb. 8; Sp. p. 1485; Gaz. vol. 151; p. 263.
Dental scraper. C. P Fritz. No. 945,713; Jan. 4; Sp. p. 1506; Gaz. vol. 150; p. 235.
Dental soldering, Investment-holder for. J. F. Thompson and H. S. Hanstine. No. 966,369; Aug. 2; Sp. p. 1089; Gaz. vol. 157; p. 175.
Dental spatula. B. R. Shopp. No. 977,906; Dec. 6; Sp. p. 1055; Gaz. vol. 161; p. 168.
Dental spray attachment for handpieces. A. F. Dollin and E. W. Couper. No. 953,022; Mar. 29; Sp. p. 5241; Gaz. vol. 152; p. 966.
Dental swaging-machine. E. O. Lothamer. No. 950,294; Feb. 22; Sp. p. 5332; Gaz. vol. 151; p. 935.
Dental tooth-posts, Making. H. Schweitzer. No. 977,558; Dec. 6; Sp. p. 333; Gaz. vol. 161; p. 49.
Dental waste-receiver. J. J. Moffitt. No. 963,794; July 12; Sp. p. 1710; Gaz. vol. 156; p. 285.
Dentifrice. W. S. Morrison. No. 947,120; Jan. 18; Sp. p. 4671; Gaz. vol. 150; p. 771.
Dentimeter. A. D. Cloud. No. 955,320; Apr. 19; Sp. p. 3504; Gaz. vol. 153; p. 621.
Dentistry, Impression-tray for. M. M. Kerr. No. 957,563; May 10; Sp. p. 2273; Gaz. vol. 154; p. 393.
Dentist's bridgework. W. A. Burns. No. 952,229; Mar. 15; Sp. p. 3565; Gaz. vol. 152; p. 641.
Dentist's cotton-holder and waste-receptacle. B. G. Simmons. No. 960,236; May 31; Sp. p. 8236; Gaz. vol. 154; p. 1386.

Dentist's flask. J. B. Buchanan. No. 963,418; July 5; Sp. p. 917; Gaz. vol. 156; p. 136.
Dentist's implement. H. M. Yorke. No. 969,682; Sept. 6; Sp. p. 1125; Gaz. vol. 158; p. 181.
Dentist's mandrel. W. B. Miller. No. 952,437; Mar. 15; Sp. p. 3968; Gaz. vol. 152; p. 710.
Dentists' use, Saliva-tube for. H. F. Hamilton. No. 979,290; Dec. 20; Sp. p. 4076; Gaz. vol. 161; p. 701.
Denture. E. B. Crane. No. 956,843; May 3; Sp. p. 747; Gaz. vol. 154; p. 118.
Denture. S. G. Supplee. No. 957,913; May 17; Sp. p. 3020; Gaz. vol. 154; p. 542.
Denture. J. C. Corcoran. No. 973,343; Oct. 18; Sp. p. 4037; Gaz. vol. 159; p. 691.
Deodorizing and drying night-soil and the like, Means for. E. T. Welcome. No. 950,977; Mar. 1; Sp. p. 1075; Gaz. vol. 152; p. 172.
Deposit and collection receptacle. H. P. Turner. No. 948,556; Feb. 8; Sp. p. 1643; Gaz. vol. 151; p. 287.
Deposit box, Safety-. P. A. Lorenz and W. T. Callaghan. No. 950,935; Mar. 1; Sp. p. 994; Gaz. vol. 152; p. 159.
Depositing-box and time-stamp. C. A. Nauck. No. 957,083; May 3; Sp. p. 1253; Gaz. vol. 154; p. 199.
Depression position-finder, Device for correcting for the earth's curvature and atmospheric refraction on a. G. N. Whistler and C. C. Hearn. No. 949,456; Feb. 15; Sp. p. 3513; Gaz. vol. 151; p. 614.
Derailer, Automatic. M. C. Sloderbeck. No. 974,715; Nov. 1; Sp. p. 1447; Gaz. vol. 160; p. 223.
Derrick. P. Yorke. No. 946,815; Jan. 18; Sp. p. 4044; Gaz. vol. 150; p. 670.
Derrick. M. J. Sasgen. No. 947,029; Jan. 18; Sp. p. 4515; Gaz. vol. 150; p. 743.
Derrick. A. Forest. No. 948,851; Feb. 8; Sp. p. 2268; Gaz. vol. 151; p. 385.
Derrick. J. McVeigh. No. 957,239; May 10; Sp. p. 1602; Gaz. vol. 154; p. 283.
Derrick. A. P. Hald. No. 964,248; July 12; Sp. p. 2653; Gaz. vol. 156; p. 437.
Derrick. V. J. Hill. No. 973,115; Oct. 18; Sp. p. 3529; Gaz. vol. 159; p. 610.
Derrick, Adjustable. G. W. Brown. No. 975,505; Nov. 15; Sp. p. 3183; Gaz. vol. 160; p. 542.
Derrick and traction-engine, Combined. W. H. Mather. No. 974,410; Nov. 1; Sp. p. 741; Gaz. vol. 160; p. 113.
Derrick dumping device. C. H. Peters, H. Hart, and S. C. Stinecipher. No. 952,350; Mar. 15; Sp. p. 3805; Gaz. vol. 152; p. 681.
Derrick foundation. M. R. and M. J. Zahniser. No. 964,140; July 12; Sp. p. 2445; Gaz. vol. 156; p. 402.
Derrick, Hoisting-. F. L. Broberg. No. 978,553; Dec. 13; Sp. p. 2450; Gaz. vol. 161; p. 422.
Derrick pivot connection. A. Lambert. No. 967,203; Aug. 16; Sp. p. 2953; Gaz. vol. 157; p. 511.
Derrick, Portable. R. B. Woodworth. No. 960,474; June 7; Sp. p. 465; Gaz. vol. 155; p. 79.
Derricks, Mast-step for. C. H. Peters. No. 965,741; July 26; Sp. p. 5923; Gaz. vol. 156; p. 1008.
Desiccating apparatus. H. J. and S. C. Keith, Jr. No. 951,249; Mar. 8; Sp. p. 1583; Gaz. vol. 152; p. 284.
Desiccating apparatus. I. S. Merrell. No. 954,451; Apr. 12; Sp. p. 1596; Gaz. vol. 153; p. 292.
Desiccating apparatus. J. H. and C. H. Campbell. No. 956,038; Apr. 26; Sp. p. 5076; Gaz. vol. 153; p. 898.
Design-cutting machine, Automatic. J. P. Wels. No. 966,280; Aug. 2; Sp. p. 923; Gaz. vol. 157; p. 148.
Designs on glass or other materials, Producing. C. Monot. No. 970,080; Sept. 13; Sp. p. 2023; Gaz. vol. 158; p. 343.
Designating, recording, and registering apparatus. W. J. Brandt. No. 967,716; Aug. 16; Sp. p. 3993; Gaz. vol. 157; p. 684.
Desk. J. A. Kennedy. No. 947,734; Jan. 25; Sp. p. 6043; Gaz. vol. 150; p. 1007.
Desk. I. M. Tindall. No. 957,583; May 10; Sp. p. 2301; Gaz. vol. 154; p. 399.
Desk. H. M. Leese. No. 970,933; Sept. 20; Sp. p. 3829; Gaz. vol. 158; p. 653.
Desk. F. E. Waring. No. 973,325; Oct. 18; Sp. p. 3996; Gaz. vol. 159; p. 684.
Desk and seat, Combined school. T. Kundtz. No. 957,426; May 10; Sp. p. 2004; Gaz. vol. 154; p. 346.
Desk and seat, School. A. R. Milner. No. 955,184; Apr. 19; Sp. p. 3203; Gaz. vol. 153; p. 575.
Desk attachment. J. A. Smylie and G. D. McElwee. No. 949,666; Feb. 15; Sp. p. 3917; Gaz. vol. 151; p. 683.
Desk attachment. M. Tennent. No. 970,970; Sept. 20; Sp. p. 3892; Gaz. vol. 158; p. 665.
Desk attachment. A. C. Kendrick. No. 974,394; Nov. 1; Sp. p. 706; Gaz. vol. 160; p. 107.
Desk book-rack. W. B. Updegraff. No. 945,877; Jan. 11; Sp. p. 1943; Gaz. vol. 150; p. 323.
Desk, Disappearing-top. M. Toso. No. 947,359; Jan. 25; Sp. p. 5236; Gaz. vol. 150; p. 882.
Desk, Folding. P. Mothersill. No. 952,624; Mar. 22; Sp. p. 4411; Gaz. vol. 152; p. 804.
Desk, Folding. L. Daniels. No. 960,836; June 7; Sp. p. 1208; Gaz. vol. 155; p. 201.
Desk furniture. A. A. Low. No. 946,448; Jan. 11; Sp. p. 3248; Gaz. vol. 150; p. 522.
Desk furniture. A. A. Low. No. 946,449; Jan. 11; Sp. p. 3249; Gaz. vol. 150; p. 522.
Desk, Knockdown. J. W. Campbell. No. 968,920; Aug. 30; Sp. p. 6574; Gaz. vol. 157; p. 1145.
Desk lock, Roll-top-. J. J. Murphy. No. 962,377; June 21; Sp. p. 4478; Gaz. vol. 155; p. 772.
Desk-pad. A. Swarin. No. 962,798; June 28; Sp. p. 5409; Gaz. vol. 155; p. 944.
Desk-pad. J. Goerk. No. 970,811; Sept. 20; Sp. p. 3607; Gaz. vol. 158; p. 615.
Desk, Retouching-. H. Weimer. No. 960,462; June 7; Sp. p. 438; Gaz. vol. 155; p. 74.
Desk, School-. G. H. Parker. No. 951,380; Mar. 8; Sp. p. 1873; Gaz. vol. 152; p. 327.
Desk, School-. F. E. Ramsden. No. 960,703; June 7; Sp. p. 946; Gaz. vol. 155; p. 157.
Desk, School-. L. H. Campbell. No. 967,609; Aug. 16; Sp. p. 3779; Gaz. vol. 157; p. 649.
Desk support, School-. W. A. Proctor. No. 955,546; Apr. 19; Sp. p. 3981; Gaz. vol. 153; p. 699.
Desk, Writing and reading. H. Singenstreu. No. 951,083; Mar. 1; Sp. p. 1253; Gaz. vol. 152; p. 206.
Desks, Ink-bottle holder for. V. D. Maney. No. 959,772; May 31; Sp. p. 7221; Gaz. vol. 154; p. 1225.
Despatch system, Vacuo. E. Flint. No. 973,931; Oct. 25; Sp. p. 5278; Gaz. vol. 159; p. 916.
Detachable bracket, Adjustable. W. F. Freeman. No. 977,609; Dec. 6; Sp. p. 441; Gaz. vol. 161; p. 65.
Detachable spindle. C. B. Wilson. No. 978,096; Dec. 6; Sp. p. 1449; Gaz. vol. 161; p. 234.
Detanning. A. G. Manns. No. 967,215; Aug. 16; Sp. p. 2971; Gaz. vol. 157; p. 515.
Detectorium. H. Gernsback. No. 961,855; June 21; Sp. p. 3368; Gaz. vol. 155; p. 596.
Detergent. E. E. Johnson. No. 965,908; Aug. 2; Sp. p. 129; Gaz. vol. 157; p. 22.
Detinning. F. von Kügelgen and G. O. Seward. No. 972,135; Oct. 4; Sp. p. 1340; Gaz. vol. 159; p. 226.
Detinning. C. J. Reed. No. 958,177; May 17; Sp. p. 3768; Gaz. vol. 154; p. 637.
Developing and fixing sensitized plates, Apparatus for. A. A. Brooks. No. 967,491; Aug. 16; Sp. p. 3547; Gaz. vol. 157; p. 609.
Developing apparatus. A. P. Center. No. 951,983; Mar. 15; Sp. p. 3100; Gaz. vol. 152; p. 559.
Developing apparatus. A. C. Hayden. No. 976,173; Nov. 22; Sp. p. 4603; Gaz. vol. 160; p. 792.
Developing-tank. L. N. Chapin. No. 958,993; May 24; Sp. p. 5600; Gaz. vol. 154; p. 941.
Developing-tank, Adjustable-rack reversible. P. Y. Howe. No. 958,500; May 17; Sp. p. 4561; Gaz. vol. 154; p. 748.
Dewatering device. W. A. Hendryx. No. 960,546; June 7; Sp. p. 632; Gaz. vol. 155; p. 103.
Dextrin, British gums, and the like, Production of. A. Fielding. No. 979,753; Dec. 27; Sp. p. 5058; Gaz. vol. 161; p. 880.
Diagram, Train and other. R. Tomlinson. No. 945,641; Jan. 4; Sp. p. 1360; Gaz. vol. 150; p. 212.
Dial, Altitude time-. F. J. Dick. No. 976,347; Nov. 22; Sp. p. 5022; Gaz. vol. 160; p. 852.
Dial, Memorandum-. J. S. McQuinn. No. 974,806; Nov. 8; Sp. p. 1645; Gaz. vol. 160; p. 276.
Diameters, Device for determining. J. G. Ayers, Jr. No. 979,248; Dec. 20; Sp. p. 3993; Gaz. vol. 161; p. 687.
Diamond and stone setting tool. J. J. Buser. No. 980,060; Dec. 27; Sp. p. 5715; Gaz. vol. 161; p. 983.
Diamond, Cut. J. L. Gonard. No. 946,939; Jan. 18; Sp. p. 4336; Gaz. vol. 150; p. 713.
Diamonds, &c., for industrial uses, Apparatus for setting. R. Krause. No. 964,792; July 19; Sp. p. 3930; Gaz. vol. 156; p. 653.
Diaper-cleaner. G. M. Scott. No. 956,831; May 3; Sp. p. 723; Gaz. vol. 154; p. 114.
Diaphragm. C. Zarr. No. 953,889; Apr. 5; Sp. p. 405; Gaz. vol. 153; p. 74.
Diaphragm-motor. H. M. Stevens. No. 945,992; Jan. 11; Sp. p. 2196; Gaz. vol. 150; p. 364.
Dice, Spherical. A. W. Wahlin. No. 973,595; Oct. 25; Sp. p. 4572; Gaz. vol. 159; p. 798.
Die: *See* Bending-die; Built-up die; Cutting-die; Expanding-die; Leather-working die; Reciprocating die; Sectional die; Thread-cutting die; Tube-covering die; Wire-drawing die.
Die. O. M. Patterson. No. 945,799; Jan. 11; Sp. p. 1758; Gaz. vol. 150; p. 295.
Die. M. Falk. No. 949,957; Feb. 22; Sp. p. 4581; Gaz. vol. 151; p. 818.
Die. W. J. MacFarland and W. G. Eaton. No. 950,003; Feb. 22; Sp. p. 4734; Gaz. vol. 151; p. 835.
Die. H. M. Schwartz. No. 956,434; Apr. 26; Sp. p. 5950; Gaz. vol. 153; p. 1034.
Die. M. Lachman. No. 977,639; Dec. 6; Sp. p. 498; Gaz. vol. 161; p. 75.
Die. G. A. Joyce. No. 978,302; Dec. 13; Sp. p. 1925; Gaz. vol. 161; p. 336.
Die-carrier. H. Zimmerman. No. 955,245; Apr. 19; Sp. p. 3349; Gaz. vol. 153; p. 597.
Die-head, Adjustable. J. A. Katzenmeyer. No. 949,278; Feb. 15; Sp. p. 3137; Gaz. vol. 151; p. 553.
Die-head, Automatic. J. P. Lavigne. No. 966,105; Aug. 2; Sp. p. 557; Gaz. vol. 157; p. 90.
Die-holder, Adjustable. P. J. Conboy. No. 970,888; Sept. 20; Sp. p. 3750; Gaz. vol. 158; p. 640.

Alphabetical list of inventions—Continued.

Die-press. R. E. Kidder. No. 967,526; Aug. 16; Sp. p. 3620; Gaz. vol. 157; p. 621.
Die-press. N. H. Seelye and W. H. Sneeston. No. 969,412; Sept. 6; Sp. p. 554; Gaz. vol. 158; p. 89.
Die-press, Automatic. C. D. McDonald. No. 970,092; Sept. 13; Sp. p. 2043; Gaz. vol. 158; p. 347.
Die-press, Automatic. B. W. Tucker. No. 980,028; Dec. 27; Sp. p. 5624; Gaz. vol. 161; p. 972.
Die-securing means. F. E. Sutherland and J. A. Brown. No. 978,508; Dec. 13; Sp. p. 2356; Gaz. vol. 161; p. 406.
Die-stock. F. E. Wells. No. 962,184; June 21; Sp. p. 4090; Gaz. vol. 155; p. 710.
Die-stock. H. W. Oster. No. 965,320; July 26; Sp. p. 5011; Gaz. vol. 156; p. 862.
Die-stock. H. W. Oster. No. 965,403; July 26; Sp. p. 5182; Gaz. vol. 156; p. 889.
Die-stock. H. W. Oster. No. 965,404; July 26; Sp. p. 5184; Gaz. vol. 156; p. 890.
Die-stock. H. W. Oster. No. 977,541; Dec. 6; Sp. p. 290; Gaz. vol. 161; p. 43.
Die-stock. R. Bartholomäus. No. 979,056; Dec. 20; Sp. p. 3536; Gaz. vol. 161; p. 618.
Die-stock. H. W. Oster. No. 979,789; Dec. 27; Sp. p. 5132; Gaz. vol. 161; p. 892.
Die-stock. H. W. Oster. No. 979,790; Dec. 27; Sp. p. 5134; Gaz. vol. 161; p. 893.
Die-stock, Adjustable. J. B. Phillips. No. 953,057; Mar. 29; Sp. p. 5311; Gaz. vol. 152; p. 978.
Die-stock, Adjustable. F. G. Koehler. No. 964,435; July 12; Sp. p. 3022; Gaz. vol. 156; p. 498.
Die-stock for cutting tapered threads. H. W. Oster. No. 977,539; Dec. 6; Sp. p. 285; Gaz. vol. 161; p. 42.
Die-stock, Ratchet. E. M. Fuller. No. 963,705; July 5; Sp. p. 1488; Gaz. vol. 156; p. 231.
Die-stock reamer attachment. G. Reeb. No. 965,657; July 26; Sp. p. 5756; Gaz. vol. 156; p. 979.
Dies, Machine for engraving or sinking. J. F. Keller and W. A. Warman. No. 956,769; May 3; Sp. p. 577; Gaz. vol. 154; p. 92.
Differential-speed motor. H. A. Rhodes. No. 971,148; Sept. 27; Sp. p. 4274; Gaz. vol. 158; p. 753.
Diffusion apparatus. J. Stewart. No. 962,725; June 28; Sp. p. 5260; Gaz. vol. 155; p. 918.
Diffusion process. J. Stewart. No. 962,597; June 28; Sp. p. 4995; Gaz. vol. 155; p. 874.
Digester and extractor, Inclined rotary. D. R. Yarnall. No. 952,224; Mar. 15; Sp. p. 3556; Gaz. vol. 152; p. 639.
Digester and the like. C. H. Craigue. No. 959,314; May 24; Sp. p. 6260; Gaz. vol. 154; p. 1048.
Digger: *See* Beet-digger; Celery-digger; Grass-digger; Post-hole digger; Potato-digger.
Digger. J. K. and E. M. Smith. No. 969,569; Sept. 6; Sp. p. 894; Gaz. vol. 158; p. 142.
Digger. L. Ferris. No. 969,613; Sept. 6; Sp. p. 990; Gaz. vol. 158; p. 157.
Digger and scraper, Combined. B. A. Carlson and W. D. Hart. No. 976,631; Nov. 22; Sp. p. 5629; Gaz. vol. 160; p. 951.
Digging apparatus. S. B. Fleming. No. 951,907; Mar. 15; Sp. p. 2956; Gaz. vol. 152; p. 535.
Dilator. R. S. Arthur. No. 972,983; Oct. 18; Sp. p. 3255; Gaz. vol. 159; p. 566.
Dimensioning apparatus. W. N. Stevens. No. 952,588; Mar. 22; Sp. p. 4317; Gaz. vol. 152; p. 791.
Dipper and funnel, Combination. H. Gerling. No. 964,908; July 19; Sp. p. 4170; Gaz. vol. 156; p. 695.
Dipper, Doughnut-. T. E. Ericson. No. 979,388; Dec. 20; Sp. p. 4245; Gaz. vol. 161; p. 732.
Dipper-tooth, Adjustable. R. H. Seymour. No. 976,507; Nov. 22; Sp. p. 5357; Gaz. vol. 160; p. 909.
Directory, City street-. P. Noguier. No. 963,635; July 5; Sp. p. 1351; Gaz. vol. 156; p. 209.
Directory, Mechanical. F. G. Hall. No. 946,034; Jan. 11; Sp. p. 2273; Gaz. vol. 150; p. 378.
Directory, Telephone-. W. G. French. No. 974,957; Nov. 8; Sp. p. 2012; Gaz. vol. 160; p. 329.
Disappearing chair. W. H. Stow. No. 954,222; Apr. 5; Sp. p. 1134; Gaz. vol. 153; p. 188.
Disappearing hook. O. J. Williams. No. 961,566; June 14; Sp. p. 2748; Gaz. vol. 155; p. 476.
Discharge and overflow fitting. G. Helbling. No. 977,304; Nov. 29; Sp. p. 7103; Gaz. vol. 160; p. 1208.
Dish. M. W. Scott. No. 948,434; Feb. 8; Sp. p. 1375; Gaz. vol. 151; p. 245.
Dish. J. B. Collins. No. 980,066; Dec. 27; Sp. p. 5723.; Gaz. vol. 161; p. 985.
Dish-cleaner. F. Schlabs. No. 947,460; Jan. 25; Sp. p. 5474; Gaz. vol. 150; p. 915.
Dish-cleaner. G. Jaekle. No. 962,763; June 28; Sp. p. 5335; Gaz. vol. 155; p. 932.
Dish-cleaner. A. H. Partridge. No. 972,400; Oct. 11; Sp. p. 1917; Gaz. vol. 159; p. 337.
Dish-drainer. P. J. B. Muller. No. 946,977; Jan. 18; Sp. p. 4411; Gaz. vol. 150; p. 725.
Dish-drainer. M. A. Dennis. No. 958,857; May 24; Sp. p. 5326; Gaz. vol. 154; p. 896.
Dish-lifting device. A. O. Bonin and L. P. Beaulieau. No. 946,324; Jan. 11; Sp. p. 2890; Gaz. vol. 150; p. 479.
Dish, Oyster-. W. O. Coleman, Sr. No. 947,373; Jan. 25; Sp. p. 5272; Gaz. vol. 150; p. 886.
Dish-pan. M. Thompson-Meares. No. 973,684; Oct. 25; Sp. p. 4781; Gaz. vol. 159; p. 830.
Dish, Soap-. A. F. Riegger. No. 950,559; Mar. 1; Sp. p. 209; Gaz. vol. 152; p. 34.
Dish-stand. N. F. Daumeyer. No. 948,476; Feb. 8; Sp. p. 1466; Gaz. vol. 151; p. 260.
Dish-washer. H. Oström. No. 954,879; Apr. 12; Sp. p. 2605; Gaz. vol. 153; p. 442.
Dish-washer. A. Walther. No. 958,948; May 24; Sp. p. 5514; Gaz. vol. 154; p. 926.
Dish-washer. M. W. Larson. No. 959,562; May 31; Sp. p. 6799; Gaz. vol. 154; p. 1157.
Dish-washer. M. J. Weaver. No. 963,672; July 5; Sp. p. 1411; Gaz. vol. 156; p. 221.
Dish-washer. C. J. O. Bergström. No. 971,658; Oct. 4; Sp. p. 308; Gaz. vol. 159; p. 55.
Dish washer and holder, Combined. N. M. Richardson. No. 973,212; Oct. 18; Sp. p. 3777; Gaz. vol. 159; p. 645.
Dish-washer and pot-cleaner. B. Quareles. No. 975,716; Nov. 15; Sp. p. 3641; Gaz. vol. 160; p. 613.
Dish-washing apparatus. B. F. McMinn. No. 967,957; Aug. 23; Sp. p. 4481; Gaz. vol. 157; p. 789.
Dish-washing apparatus. A. Babcock. No. 970,872; Sept. 20; Sp. p. 3715; Gaz. vol. 158; p. 635.
Dish-washing machine. I. L. Frankem. No. 948,046; Feb. 1; Sp. p. 561; Gaz. vol. 151; p. 90.
Dish-washing machine. E. Villani. No. 952,592; Mar. 22; Sp. p. 4326; Gaz. vol. 152; p. 792.
Dish-washing machine. G. M. Cram. No. 954,615; Apr. 12; Sp. p. 1964; Gaz. vol. 153; p. 348.
Dish-washing machine. J. G. Knapp. No. 959,355; May 24; Sp. p. 6348; Gaz. vol. 154; p. 1061.
Dish-washing machine. A. R. Beal and A. Hettel. No. 972,747; Oct. 11; Sp. p. 2690; Gaz. vol. 159; p. 457.
Disinfectant-distributer. J. H. Melville. No. 960,984; June 7; Sp. p. 1489; Gaz. vol. 155; p. 250.
Disinfectant-distributing apparatus. J. W. Wilkie and R. Wilson. No. 945,255; Jan. 4; Sp. p. 521; Gaz. vol. 150; p. 85.
Disinfectant-holder. C. J. Walz. No. 957,449; May 10; Sp. p. 2045; Gaz. vol. 154; p. 355.
Disinfecting and deodorizing apparatus. E. Rooch. No. 960,406; June 7; Sp. p. 343; Gaz. vol. 155; p. 57.
Disinfecting apparatus. L. Wieden. No. 945,657; Jan. 4; Sp. p. 1397; Gaz. vol. 150; p. 218.
Disinfecting apparatus. W. H. Rose. No. 964,559; July 19; Sp. p. 3354; Gaz. vol. 156; p. 573.
Disinfecting apparatus. C. B. Rider. No. 974,298; Nov. 1; Sp. p. 495; Gaz. vol. 160; p. 73.
Disinfecting apparatus. L. E. Bach. No. 975,925; Nov. 15; Sp. p. 4064; Gaz. vol. 160; p. 685.
Disinfecting apparatus. P. C. F. and C. S. Elfantin. No. 976,992; Nov. 29; Sp. p. 6449; Gaz. vol. 160; p. 1101.
Disinfecting appliance. M. Dreifuss. No. 954,426; Apr. 12; Sp. p. 1540; Gaz. vol. 153; p. 283.
Disinfecting compound. W. Dreyfus. No. 978,142; Dec. 13; Sp. p. 1581; Gaz. vol. 161; p. 280.
Disinfecting device. F. Le Faguays. No. 958,259; May 17; Sp. p. 3936; Gaz. vol. 154; p. 662.
Disinfecting device. A. B. Buckland. No. 959,111; May 24; Sp. p. 5849; Gaz. vol. 154; p. 980.
Disinfector. H. L. Schellenberg. No. 961,650; June 14; Sp. p. 2910; Gaz. vol. 155; p. 503.
Disinfector. G. H. Garnet. No. 966,900; Aug. 9; Sp. p. 2317; Gaz. vol. 157; p. 380.
Disinfector. T. Druzbach. No. 979,386; Dec. 20; Sp. p. 4243; Gaz. vol. 161; p. 731.
Disinfector and deodorizer. J., W. H., and E. R. Williams. No. 977,353; Nov. 29; Sp. p. 7205; Gaz. vol. 160; p. 1226.
Disinfector or deodorizer. J. W. H. and E. R. Williams. No. 963,492; July 5; Sp. p. 1055; Gaz. vol. 156; p. 161.
Disinfector, Telephone-transmitter. F. H. Peck. No. 961,369; June 14; Sp. p. 2323; Gaz. vol. 155; p. 410.
Disintegrator. W. E. Damon. No. 963,122; July 5; Sp. p. 251; Gaz. vol. 156; p. 33.
Disintegrator, Centrifugal. J. Ogden and R. C. Child. No. 967,042; Aug. 9; Sp. p. 2619; Gaz. vol. 157; p. 429.
Disk drill. C. W. Dickinson. No. 964,768; July 19; Sp. p. 3887; Gaz. vol. 156; p. 645.
Disk marker. C. H. Myers. (Reissue.) No. 13,102; Apr. 19; Sp. p. 4642; Gaz. vol. 153; p. 800.
Disk-mount. W. G. Danielsen. No. 966,663; Aug. 9; Sp. p. 1768; Gaz. vol. 157; p. 302.
Disk-support. C. S. Skinner. No. 975,298; Nov. 8; Sp. p. 2761; Gaz. vol. 160; p. 445.
Dispensing and printing machine. C. A. Alden. No. 950,789; Mar. 1; Sp. p. 710; Gaz. vol. 152; p. 113.
Dispensing apparatus. C. R. Warters. No. 963,342; July 5; Sp. p. 759; Gaz. vol. 156; p. 110.
Dispensing-can. F. M. Ashe. No. 945,362; Jan. 4; Sp. p. 781; Gaz. vol. 150; p. 120.
Dispensing-can. O. A. Olin. No. 946,769; Jan. 18; Sp. p. 3930; Gaz. vol. 150; p. 654.
Dispensing-can. W. A. L. Miller. No. 978,614; Dec. 13; Sp. p. 2609; Gaz. vol. 161; p. 444.
Dispensing can or vessel. A. K. Sween. No. 955,013; Apr. 12; Sp. p. 2873; Gaz. vol. 153; p. 487.
Dispensing-container. C. E. Stubbs. No. 967,852; Aug. 16; Sp. p. 4266; Gaz. vol. 157; p. 730.

Alphabetical list of inventions—Continued.

Dispensing mobile substances, Apparatus for. C. Christensen. No. 959,717; May 31; Sp. p. 7105; Gaz. vol. 154; p. 1206.
Dispensing-receptacle. L. Stowe. No. 979,592; Dec. 27; Sp. p. 4702; Gaz. vol. 161; p. 825.
Displacement structure. L. H. Nash. No. 953,222; Mar. 29; Sp. p. 5681; Gaz. vol. 152; p. 1032.
Display and stock cabinet, Hat. C. J. Kleckner. No. 960,342; June 7; Sp. p. 211; Gaz. vol. 155; p. 36.
Display apparatus. T. Lennox. No. 947,828; Feb. 1; Sp. p. 83; Gaz. vol. 151; p. 18.
Display apparatus. J. Vormbaum. No. 950,498; Mar. 1; Sp. p. 85; Gaz. vol. 152; p. 14.
Display apparatus. C. Orgaard. No. 953,796; Apr. 5; Sp. p. 227; Gaz. vol. 153; p. 41.
Display apparatus. E. F. Cannon. No. 958,475; May 17; Sp. p. 4517; Gaz. vol. 154; p. 740.
Display apparatus. T. T. Cochran and R. Z. Gardner. No. 996,083; Aug. 2; Sp. p. 511; Gaz. vol. 157; p. 83.
Display apparatus. M. L. Stern. No. 967,685; Aug. 16; Sp. p. 3923; Gaz. vol. 157; p. 673.
Display apparatus. G. E. Fosbroke. No. 976,160; Nov. 22; Sp. p. 4555; Gaz. vol. 160; p. 788.
Display apparatus, Card-. C. H. Townsend. No. 946,288; Jan. 11; Sp. p. 2809; Gaz. vol. 150; p. 468.
Display-box. C. M. Blackman. No. 959,701; May 31; Sp. p. 7078; Gaz. vol. 154; p. 1201.
Display-box. F. K. Andrews. No. 965,680; July 26; Sp. p. 5811; Gaz vol. 156; p. 987.
Display-box. I. W. Levi. No. 968,245; Aug. 23; Sp. p. 5149; Gaz. vol. 157; p. 886.
Display-box. E. H. Heppe. No. 977,305; Nov. 29; Sp. p. 7104; Gaz. vol. 160; p. 1209.
Display-box, Folding. H. Schandein and M. P. Lind. No. 965,019; July 19; Sp. p. 4379; Gaz. vol. 156; p. 730.
Display-box fronts, Fastener for. A. F. Urban. No. 955,563; Apr. 19; Sp. p. 4017; Gaz. vol. 153; p. 704.
Display-cabinet. V. D. Payne. No. 948,521; Feb. 8; Sp. p. 1566; Gaz. vol. 151; p. 276.
Display-cabinet. E. Moore. No. 950,572; Mar. 1; Sp. p. 231; Gaz. vol. 152; p. 38.
Display-cabinet. C. F. Krom. No. 960,561; June 7; Sp. p. 665; Gaz. vol. 155; p. 109.
Display-cabinet. A. T. Duncan. No. 977,080; Nov. 29; Sp. p. 6635; Gaz. vol. 160; p. 1131.
Display-cabinet for laces, &c. O. A. and F. W. Hunger. No. 951,075; Mar. 1; Sp. p. 1236; Gaz. vol. 152; p. 203.
Display-cabinet for photographs. H. Schwartzman. No. 973,570; Oct. 25; Sp. p. 4523; Gaz. vol. 159; p. 790.
Display-can, Multiple-compartment. V. Ricker. No. 947,561; Jan. 25; Sp. p. 5710; Gaz. vol. 150; p. 948.
Display-can, Sheet-metal. W. L. Laskey. No. 978,041; Dec. 6; Sp. p. 1334; Gaz. vol. 161; p. 214.
Display-card. T. E. Wiederseim, Jr. No. 956,916; May 3; Sp. p. 908; Gaz. vol. 154; p. 144.
Display-card. R. Gair. No. 977,292; Nov. 29; Sp. p. 7079; Gaz. vol. 160; p. 1204.
Display-card holder, Adjustable. L. Bland. No. 958,082; May 17; Sp. p. 3574; Gaz. vol. 154; p. 602.
Display-carrier. E. Grant. No. 980,097; Dec. 27; Sp. p. 5798; Gaz. vol. 161; p. 994.
Display-case. D. S. Forchheimer. No. 957,461; May 10; Sp. p. 2069; Gaz. vol. 154; p. 359.
Display-case. W. F. Shaffer. No. 965,237; July 26; Sp. p. 4817; Gaz vol. 156; p. 833.
Display-case. H. C. Borman. No. 971,719; Oct. 4; Sp. p. 435; Gaz. vol. 159; p. 76.
Display case, Card-. H. A. Shannon. No. 975,644; Nov. 15; Sp. p. 3482; Gaz. vol. 160; p. 591.
Display-case, Folding. D. Weinstock. No. 949,340; Feb. 15; Sp. p. 3276; Gaz. vol. 151; p. 575.
Display-case, Folding. D. Weinstock. No. 954,834; Apr. 12; Sp. p. 2495; Gaz. vol. 153; p. 425.
Display-case, Revoluble. G. B. Swan. No. 951,664; Mar. 8; Sp. p. 2444; Gaz. vol. 152; p. 423.
Display case, Time-table-. H. Woernle. No. 946,649; Jan. 18; Sp. p. 3660; Gaz. vol. 150; p. 613.
Display-cases or similar structures, Joint for. D. E. Hunter. No. 965,525; July 26; Sp. p. 5476; Gaz. vol. 156; p. 932.
Display-cover. C. H. Myers. No. 970,732; Sept. 20; Sp. p. 3407; Gaz. vol. 158; p. 585.
Display-cover for barrels. S. H. Klein. No. 977,315; Nov. 29; Sp. p. 7120; Gaz. vol. 160; p. 1211.
Display-counter. C. W. Kress. No. 953,911; Apr. 5; Sp. p. 450; Gaz. vol. 153; p. 82.
Display device. J. A. Arnsdorff. No. 951,718; Mar. 8; Sp. p. 2522; Gaz. vol. 152; p. 439.
Display device. E. R. Phelps. No. 951,773; Mar. 8; Sp. p. 2657; Gaz. vol. 152; p. 459.
Display device. L. G. Quackenboss. No. 955,200; Apr. 19; Sp. p. 3244; Gaz. vol. 153; p. 581.
Display device. A. S. Spiegel. No. 957,119; May 3; Sp. p. 1320; Gaz. vol. 154; p. 211.
Display device. M. Gelas. No. 963,706; July 5; Sp. p. 1490; Gaz. vol. 156; p. 232.
Display device. R. W. Ralph. No. 964,553; July 19; Sp. p. 3330; Gaz. vol. 156; p. 569.
Display device. C. C. Hoyt. No. 971,751; Oct. 4; Sp. p. 508; Gaz. vol. 159; p. 88.
Display device. B. W. Norton. No. 977,395; Nov. 29; Sp. p. 7329; Gaz. vol. 160; p. 1240.
Display device for carpets, &c. T. C. De Lisle and W. T. Phillips. No. 976,442; Nov. 22; Sp. p. 5230; Gaz. vol. 160; p. 887.
Display device, Postal-card-. W. J. Cooper. No. 971,596; Oct. 4; Sp. p. 185; Gaz. vol. 159; p. 34.
Display-fixture. W. E. Taylor. No. 956,445; Apr. 26; Sp. p. 5982; Gaz. vol. 153; p. 1038.
Display-folder. M. H. Wilson. No. 956,252; Apr. 26; Sp. p. 5570; Gaz. vol. 153; p. 971.
Display-form. C. M. Colton. No. 965,873; Aug. 2; Sp. p. 53; Gaz. vol. 157; p. 11.
Display-form. F. F. Allison. No. 967,482; Aug. 16; Sp. p. 3530; Gaz. vol. 157; p. 606.
Display frame and easel. J. P. Tracy. No. 951,294; Mar. 8; Sp. p. 1685; Gaz. vol. 152; p. 298.
Display-frame for cards. E. Milner. No. 949,328; Feb. 15; Sp. p. 3242; Gaz. vol. 151; p. 570.
Display-hanger for curtains, &c. C. E. Perkins. No. 962,855; June 28; Sp. p. 5510; Gaz. vol. 155; p. 964.
Display-holder. P. R. Warren. No. 964,826; July 19; Sp. p. 3994; Gaz. vol. 156; p. 665.
Display-holder for cartons, boxes, and other receptacles. P. J. Eul. No. 952,612; Mar. 22; Sp. p. 4379; Gaz. vol. 152; p. 799.
Display holder, Hat-. O. Justus. No. 954,678; Apr. 12; Sp. p. 2111; Gaz. vol. 153; p. 370.
Display leaf-turner, Book-. J. R. Elliott. No. 954,272; Apr. 5; Sp. p. 1219; Gaz. vol. 153; p. 204.
Display-machine. J. S. Anderson. No. 957,640; May 10; Sp. p. 2422; Gaz. vol. 154; p. 419.
Display-matter support. T. Harrington. No. 950,912; Mar. 1; Sp. p. 945; Gaz. vol. 152; p. 151.
Display mechanism. E. D. Meyer. No. 972,123; Oct. 4; Sp. p. 1311; Gaz. vol. 159; p. 222.
Display or color card. G. Benze. No. 958,080; May 17; Sp. p. 3570; Gaz. vol. 154; p. 603.
Display or color card. G. Benze. No. 958,218; May 17; Sp. p. 3845; Gaz. vol. 154; p. 650.
Display-package for garters. G. B. Glidden. No. 978,367; Dec. 13; Sp. p. 2049; Gaz. vol. 161; p. 357.
Display-rack. R. J. Smith. No. 945,626; Jan. 4; Sp. p. 1331; Gaz. vol. 150; p. 206.
Display-rack. J. Wolkerstorfer. No. 947,140; Jan. 18; Sp. p. 4700; Gaz. vol. 150; p. 776.
Display-rack. J. A. Bogar. No. 948,203; Feb. 1; Sp. p. 867; Gaz. vol. 151; p. 142.
Display-rack. W. L. McCarty. No. 950,006; Feb. 22; Sp. p. 4740; Gaz. vol. 151; p. 837.
Display-rack. H. F. Mertz. No. 950,050; Feb. 22; Sp. p. 4843; Gaz. vol. 151; p. 852.
Display-rack. I. W. Kennett. No. 951,081; Mar. 1; Sp. p. 1249; Gaz. vol. 152; p. 205.
Display-rack. W. J. Carroll. No. 952,603; Mar. 22; Sp. p. 4360; Gaz. vol. 152; p. 796.
Display-rack. R. C. Smith. No. 952,646; Mar. 22; Sp. p. 4455; Gaz. vol. 152; p. 812.
Display-rack. A. S. Hughes. No. 953,205; Mar. 29; Sp. p. 5651; Gaz. vol. 152; p. 1026.
Display-rack. J. Wolkerstorfer. No. 955,734; Apr. 19; Sp. p. 4422; Gaz. vol. 153; p. 763.
Display-rack. J. E. White. No. 962,185; June 21; Sp. p. 4091; Gaz. vol. 155; p. 710.
Display-rack. H. E. Feldman. No. 963,040; July 5; Sp. p. 25; Gaz. vol. 156; p. 6.
Display-rack. H. E. Feldman. No. 963,129; July 5; Sp. p. 265; Gaz. vol. 156; p. 36.
Display-rack. R. C. O'Neil. No. 964,683; July 19; Sp. p. 3703; Gaz. vol. 156; p. 616.
Display-rack. W. Shannon. No. 968,201; Aug. 23; Sp. p. 5049; Gaz. vol. 157; p. 870.
Display-rack. C. C. Geiger. No. 968,933; Aug. 30; Sp. p. 6602; Gaz. vol. 157; p. 1149.
Display-rack. W. H. Crane. No. 971,493; Sept. 27; Sp. p. 4941; Gaz. vol. 158; p. 865.
Display-rack. J. McLaughlin. No. 971,912; Oct. 4; Sp. p. 864; Gaz. vol. 159; p. 148.
Display-rack and silent salesman. H. Barnett. No. 977,063; Nov. 29; Sp. p. 6589; Gaz. vol. 160; p. 1124.
Display rack, Chair-. R. E. Harper. No. 972,447; Oct. 11; Sp. p. 2010; Gaz. vol. 159; p. 353.
Display rack, Door-. H. E. Forgy. No. 965,099; July 19; Sp. p. 4546; Gaz. vol. 156; p. 758.
Display-rack for burial-caskets, Foldable. C. O. Whitcomb. No. 952,058; Mar. 15; Sp. p. 3243; Gaz. vol. 152; p. 584.
Display-rack for holding hats. W. R. Sandifur. No. 950,961; Mar. 1; Sp. p. 1050; Gaz. vol. 152; p. 168.
Display-rack for neckwear. H. Solomon. No. 978,670; Dec. 13; Sp. p. 2718; Gaz. vol. 161; p. 463.
Display-rack for show-cases. J. H. Servatius and F. E. Meinel. No. 961,029; June 7; Sp. p. 1588; Gaz. vol. 155; p. 266.
Display-rack for windows. E. Schreiber. No. 949,915; Feb. 22; Sp. p. 4506; Gaz. vol. 151; p. 804.
Display rack, Mattress-. L. Emerich. No. 955,586; Apr. 19; Sp. p. 4079; Gaz. vol. 153; p. 712.
Display rack, Merchandise-. R. D. Crego. No. 949,393; Feb. 15; Sp. p. 3404; Gaz. vol. 151; p. 594.
Display rack, Merchandise-. A. T. Edwards. No. 965,169; July 26; Sp. p. 4682; Gaz. vol. 156; p. 811.

Alphabetical list of inventions—Continued.

Display rack or stand. J. D. Fassio. No. 955,589; Apr. 19; Sp. p. 4083; Gaz. vol. 153; p. 712.
Display-shelving. J. N. Clear. No. 946,337; Jan. 11; Sp. p. 2916; Gaz. vol. 150; p. 483.
Display-stand. J. H. Jefferson. No. 947,640; Jan. 25; Sp. p. 5882; Gaz. vol. 150; p. 976.
Display-stand. E. T. Palmenberg. No. 947,646; Jan. 25; Sp. p. 5891; Gaz. vol. 150; p. 978.
Display-stand. H. Rosenthal. No. 948,795; Feb. 8; Sp. p. 2155; Gaz. vol. 151; p. 367.
Display-stand. G. R. Ford. (Reissue.) No. 13,098; Mar. 29; Sp. p. 6674; Gaz. vol. 152; p. 1188.
Display-stand. J. M. Walters. No. 962,277; June 21; Sp. p. 4281; Gaz. vol. 155; p. 740.
Display-stand. F. J. Hughes. No. 969,698; Sept. 6; Sp. p. 1151; Gaz. vol. 158; p. 186.
Display stand, Hat-. D. J. Heagany. No. 954,391; Apr. 5; Sp. p. 1468; Gaz. vol. 153; p. 244.
Display stand, Jewel-. G. C. Rueckert. No. 952,141; Mar. 15; Sp. p. 3397; Gaz. vol. 152; p. 611.
Display stand or case, Folding. M. J. Wrenn. No. 975,096; Nov. 8; Sp. p. 2297; Gaz. vol. 160; p. 376.
Display stand, Revolver-. W. G. Greenwood. No. 945,520; Jan. 4; Sp. p. 1109; Gaz. vol. 150; p. 171.
Display-truck. J. L. Tandy. No. 955,014; Apr. 12; Sp. p. 2875; Gaz. vol. 153; p. 487.
Displayer, Portable fruit-. W. F. Crandall. No. 977,071; Nov. 29; Sp. p. 6613; Gaz. vol. 160; p. 1127.
Displaying advertisements, Apparatus for. G. H. Thomas. No. 951,494; Mar. 8; Sp. p. 2108; Gaz. vol. 152; p. 364.
Displaying device, Merchandise-. G. J. Bicknell and W. O. Webber. No. 951,413; Mar. 8; Sp. p. 1945; Gaz. vol. 152; p. 337.
Displaying device, Window. E. C. Rhodes. No. 950,346; Feb. 22; Sp. p. 5433; Gaz. vol. 151; p. 952.
Displaying graining effects, Device for. F. M. Clapp. No. 954,928; Apr. 12; Sp. p. 2711; Gaz. vol. 153; p. 458.
Displaying merchandise, Device for. J. S. Binford. No. 945,211; Jan. 4; Sp. p. 424; Gaz. vol. 150; p. 70.
Distance and speed indicator and recorder. G. S. Maxwell. No. 949,000; Feb. 15; Sp. p. 2568; Gaz. vol. 151; p. 462.
Distillate-burning apparatus. C. J. Duff, C. V. Phelps, and B. W. Pitts. No. 975,221; Nov. 8; Sp. p. 2597; Gaz. vol. 160; p. 419.
Distillation. H. O. V. Bergström. No. 953,019; Mar. 29; Sp. p. 5234; Gaz. vol. 152; p. 965.
Distillation of coal and the recovery of the products, Apparatus for the. R. S. Richards and R. W. Pringle. No. 974,919; Nov. 8; Sp. p. 1905; Gaz. vol. 160; p. 315.
Distillation of heavy and residual oils of petroleum. V. Huglo. No. 953,952; Apr. 5; Sp. p. 527; Gaz. vol. 153; p. 96.
Distillation of wood, Separating the products of the destructive. T. H. Kennedy and F. J. Heckel. No. 969,635; Sept. 6; Sp. p. 1031; Gaz. vol. 158; p. 165.
Distillation system, Water-. A. Faget. No. 971,183; Sept. 27; Sp. p. 4360; Gaz. vol. 158; p. 765.
Distillation, Wood. H. Rasche. No. 962,668; June 28; Sp. p. 5132; Gaz. vol. 155; p. 897.
Distillery-slop, Desiccating. E. H. Brinkmann and H. O. Wente. No. 958,902; May 24; Sp. p. 5440; Gaz. vol. 154; p. 911.
Distillery-slop to dry feed, Reducing. E. A. Hoffmann. No. 965,521; July 26; Sp. p. 5469; Gaz. vol. 156; p. 931.
Distilling and rectifying apparatus. R. Vallat. No. 974,213; Nov. 1; Sp. p. 249; Gaz. vol. 160; p. 41.
Distilling apparatus. G. Láczay. No. 957,613; May 10; Sp. p. 2355; Gaz. vol. 154; p. 410.
Distilling coal. H. Koppers. No. 956,371; Apr. 26; Sp. p. 5827; Gaz. vol. 153; p. 1012.
Distilling coal. J. W. Aylsworth and F. L. Dyer. No. 970,364; Sept. 13; Sp. p. 2594; Gaz. vol. 158; p. 438.
Distilling-column. E. Bolton. No. 955,127; Apr. 19; Sp. p. 3087; Gaz. vol. 153; p. 554.
Distilling device. O. A. Nenninger. No. 952,343; Mar. 15; Sp. p. 3795; Gaz. vol. 152; p. 679.
Distilling hydrocarbon oils, Apparatus for. J. S. Lang. No. 954,575; Apr. 12; Sp. p. 1869; Gaz. vol. 153; p. 334.
Distilling liquids. L. O. Sherman. No. 968,088; Aug. 23; Sp. p. 4791; Gaz. vol. 157; p. 833.
Distilling system. E. H. De Lany. No. 971,668; Oct. 4; Sp. p. 332; Gaz. vol. 159; p. 59.
Distributer. J. O. Heinze, Jr. No. 951,815; Mar. 15; Sp. p. 2751; Gaz. vol. 152; p. 503.
Distributer. J. B. Hutchinson. No. 964,971; July 19; Sp. p. 4289; Gaz. vol. 156; p. 715.
Distributing apparatus. F. I. du Pont. No. 963,470; July 5; Sp. p. 1016; Gaz. vol. 156; p. 154.
Distributing-board. L. H. Nielsen and J. F. Barnard. No. 968,071; Aug. 23; Sp. p. 4753; Gaz. vol. 157; p. 827.
Distributing-board and cross-connecting rack, Fused. R. G. Hardgrave. No. 958,808; May 24; Sp. p. 5204; Gaz. vol. 154; p. 878.
Distributing device. W. G. Taylor. No. 960,732; June 7; Sp. p. 999; Gaz. vol. 155; p. 167.
Distributing system. C. M. Dissosway. No. 964,001; July 12; Sp. p. 2163; Gaz. vol. 156; p. 353.
Distributing system, Automatic. L. D. Kellogg. No. 960,176; May 31; Sp. p. 8112; Gaz. vol. 154; p. 1365.
Distribution system. C. P. Steinmetz. No. 946,473; Jan. 11; Sp. p. 3301; Gaz. vol. 150; p. 530.
Distribution system. P. M. Lincoln. No. 977,645; Dec. 6; Sp. p. 514; Gaz. vol. 161; p. 77.
Ditch-gate. A. J. Collar. No. 970,308; Sept. 13; Sp. p. 2494; Gaz. vol. 158; p. 420.
Ditch-gate. A. J. Collar. No. 973,172; Oct. 18; Sp. p. 3685; Gaz. vol. 159; p. 631.
Ditch-gate. A. J. Collar. No. 976,434; Nov. 22; Sp. p. 5215; Gaz. vol. 160; p. 885.
Ditching and grading machine. M. P. Zindorf. No. 952,662; Mar. 22; Sp. p. 4488; Gaz. vol. 152; p. 817.
Ditching and tile machine. L. C. Loomis. No. 946,609; Jan. 18; Sp. p. 3573; Gaz. vol. 150; p. 601.
Ditching-machine. O. West. No. 949,341; Feb. 15; Sp. p. 3278; Gaz. vol. 151; p. 575.
Ditching-machine. F. D. Meyer. No. 949,937; Feb. 22; Sp. p. 4544; Gaz. vol. 151; p. 812.
Ditching-machine. D. E. Howatt. No. 954,677; Apr. 12; Sp. p. 2109; Gaz. vol. 153; p. 370.
Ditching-machine. R. Sinclair. No. 961,321; June 14; Sp. p. 2236; Gaz. vol. 155; p. 394.
Ditching-machine. S. De Force. No. 963,021; June 28; Sp. p. 5821; Gaz. vol. 155; p. 1019.
Ditching-machine. F. B. Winkelman. No. 975,593; Nov. 15; Sp. p. 3372; Gaz. vol. 160; p. 573.
Ditching-machine. J. L. Crismon. No. 979,442; Dec. 27; Sp. p. 4368; Gaz. vol. 161; p. 773.
Ditching-machines, Traction-apron for. C. S. Brown. No. 954,252; Apr. 5; Sp. p. 1182; Gaz. vol. 153; p. 197.
Ditching-tool. W. W. Wolary. No. 976,970; Nov. 29; Sp. p. 6403; Gaz. vol. 160; p. 1094.
Dividing and banding machine. A. G. Bauer. No. 967,878; Aug. 23; Sp. p. 4319; Gaz. vol. 157; p. 762.
Dividing apparatus. R. Hoyt. No. 970,826; Sept. 20; Sp. p. 3635; Gaz. vol. 158; p. 620.
Dividing circles or arcs of circles, Device for. A. D. Ide. No. 948,172; Feb. 1; Sp. p. 796; Gaz. vol. 151; p. 132.
Diving apparatus. G. W. Smith. No. 975,727; Nov. 15; Sp. p. 3657; Gaz. vol. 160; p. 616.
Diving-bell apparatus for submarine work. J. G. Flood and W. G. Fitzgerald. No. 962,019; June 21; Sp. p. 3697; Gaz. vol. 155; p. 649.
Dobby. C. C. Forster. No. 947,574; Jan. 25; Sp. p. 5740; Gaz. vol. 150; p. 953.
Docket, Collection-. V. H. Multer. No. 946,860; Jan. 18; Sp. p. 4150; Gaz. vol. 150; p. 686.
Docks, Building. T. N. Berge. No. 971,964; Oct. 4; Sp. p. 1019; Gaz. vol. 159; p. 169.
Doff-governor, Slubber, intermediate, and fine frame. G. R. Kindrick. No. 970,060; Sept. 13; Sp. p. 1984; Gaz. vol. 158; p. 336.
Doffing mechanism. F. Lister. No. 946,144; Jan. 11; Sp. p. 2485; Gaz. vol. 150; p. 415.
Dog-ear cutter. F. W. Porter. No. 964,182; July 12; Sp. p. 2519; Gaz. vol. 156; p. 414.
Doll. E. T. Gibson. No. 952,731; Mar. 22; Sp. p. 4633; Gaz. vol. 152; p. 840.
Doll, Clown-. O. A. Flynn. No. 958,387; May 17; Sp. p. 4343; Gaz. vol. 154; p. 709.
Doll, Dancing. A. M. Preston. No. 954,341; Apr. 5; Sp. p. 1376; Gaz. vol. 153; p. 228.
Doll-eyes. G. Scherf. No. 979,573; Dec. 27; Sp. p. 4664; Gaz. vol. 161; p. 819.
Doll, Nautical. T. W. Sanford. No. 954,544; Apr. 12; Sp. p. 1809; Gaz. vol. 153; p. 325.
Doll's head. L. Steiner. No. 952,716; Mar. 22; Sp. p. 4611; Gaz. vol. 152; p. 835.
Dolly-bar. C. C. Kirk. No. 974,677; Nov. 1; Sp. p. 1356; Gaz. vol. 160; p. 211.
Dolomite, Treating. J. J. Gathy. No. 971,368; Sept. 27; Sp. p. 4721; Gaz. vol. 158; p. 825.
Domestic boiler. J. R. Haldeman. No. 978,020; Dec. 6; Sp. p. 1290; Gaz. vol. 161; p. 207.
Domestic press. L. N. Himebaugh. No. 968,848; Aug. 30; Sp. p. 6424; Gaz. vol. 157; p. 1119.
Door. S. D. Hart and A. Hoefer. No. 946,038; Jan. 11; Sp. p. 2284; Gaz. vol. 150; p. 379.
Door. N. Paine. No. 946,460; Jan. 11; Sp. p. 3278; Gaz. vol. 150; p. 526.
Door. T. M. Cole. No. 948,690; Feb. 8; Sp. p. 1927; Gaz. vol. 151; p. 331.
Door. J. H. Van Zandt. No. 953,983; Apr. 5; Sp. p. 592; Gaz. vol. 153; p. 106.
Door. A. Ritter. No. 958,976; May 24; Sp. p. 5573; Gaz. vol. 154; p. 936.
Door. J. C. Duner. No. 963,752; July 12; Sp. p. 1607; Gaz. vol. 156; p. 270.
Door. A. H. Schlueter. No. 963,948; July 12; Sp. p. 2035; Gaz. vol. 156; p. 335.
Door. R. Woods. No. 974,327; Nov. 1; Sp. p. 575; Gaz. vol. 160; p. 84.
Door. J. B. Clermont. No. 974,750; Nov. 1; Sp. p. 1525; Gaz. vol. 160; p. 234.
Door and damper operator. J. Laus, Jr. No. 954,309; Apr. 5; Sp. p. 1308; Gaz. vol. 153; p. 216.
Door and gate hanger. H. Todd. No. 969,005; Aug. 30; Sp. p. 6738; Gaz. vol. 157; p. 1173.
Door and lock therefor. W. H. Ludwig. No. 979,679; Dec. 27; Sp. p. 4880; Gaz. vol. 161; p. 855.

Door and means for operating same. F. D. Ogden. No. 974,699; Nov. 1; Sp. p. 1409; Gaz. vol. 160; p. 218.
Door and means for operating the same. F. D. Ogden. No. 962,404; June 21; Sp. p. 4531; Gaz. vol. 155; p. 782.
Door and means for operating the same. J. E. Ogden. No. 973,691; Oct. 25; Sp. p. 4791; Gaz. vol. 159; p. 832.
Door and mechanism for operating the same, Automatic. J. and J. Parkhill. No. 955,540; Apr. 19; Sp. p. 3969; Gaz. vol. 153; p. 697.
Door and step operating mechanism, Combined. H. Rowntree. No. 976,926; Nov. 29; Sp. p. 6276; Gaz. vol. 160; p. 1077.
Door and the like checking device. K. Kramp. No. 969,882; Sept. 13; Sp. p. 1599; Gaz. vol. 158; p. 275.
Door and the like, Sheet-metal. A. Johnson. No. 978,300; Dec. 13; Sp. p. 1919; Gaz. vol. 161; p. 335.
Door and window frame, Metal. S. C. Monberg. No. 958,663; May 17; Sp. p. 4878; Gaz. vol. 154; p. 801.
Door, Automatic. P. S. Pians. No. 972,639; Oct. 11; Sp. p. 2472; Gaz. vol. 159; p. 420.
Door bolt, Double-. J. and A. Ledoux. No. 950,551; Mar. 1; Sp. p. 188; Gaz. vol. 152; p. 32.
Door bolt, Double-. A. M. Hoes. No. 969,624; Sept. 6; Sp. p. 1010; Gaz. vol. 158; p. 161.
Door-bolt, Multiple. J. Golden. No. 966,195; Aug. 2; Sp. p. 759; Gaz. vol. 157; p. 120.
Door bolt, Show-case-. A. Vanderveld. No. 972,949; Oct. 18; Sp. p. 3188; Gaz. vol. 159; p. 555.
Door, Cabinet-. H. R. Kuersten. No. 962,228; June 21; Sp. p. 4165; Gaz. vol. 155; p. 723.
Door-catch. W. D. Taubert. No. 947,865; Feb. 1; Sp. p. 181; Gaz. vol. 151; p. 31.
Door-catch. P. P. Shonka. No. 952,715; Mar. 22; Sp. p. 4610; Gaz. vol. 152; p. 835.
Door-catch. W. D. Ferris. No. 972,177; Oct. 11; Sp. p. 1447; Gaz. vol. 159; p. 259.
Door-catch, Automatic. R. E. Haskins. No. 952,735; Mar. 22; Sp. p. 4642; Gaz. vol. 152; p. 842.
Door catch or check. G. W. Mallory. No. 959,241; May 24; Sp. p. 6126; Gaz. vol. 154; p. 1023.
Door catch, Screen-. J. L. Zesiger. No. 965,791; July 26; Sp. p. 6041; Gaz. vol. 156; p. 1025.
Door, Cellar-. W. E. McKibben. No. 948,282; Feb. 1; Sp. p. 1026; Gaz. vol. 151; p. 168.
Door-check. R. W. Hubbard. No. 945,461; Jan. 4; Sp. p. 968; Gaz. vol. 150; p. 152.
Door-check. P. Dumont. No. 947,805; Feb. 1; Sp. p. 52; Gaz. vol. 151; p. 11.
Door-check. J. A. Stuart. No. 948,598; Feb. 8; Sp. p. 1728; Gaz. vol. 151; p. 300.
Door-check. J. Ewart. No. 950,566; Mar. 1; Sp. p. 222; Gaz. vol. 152; p. 37.
Door-check. T. J. Younglove. No. 951,170; Mar. 8; Sp. p. 1430; Gaz. vol. 152; p. 259.
Door-check. M. Chambre. No. 952,511; Mar. 22; Sp. p. 4143; Gaz. vol. 152; p. 763.
Door-check. A. Wendlinger. No. 952,854; Mar. 22; Sp. p. 4903; Gaz. vol. 152; p. 883.
Door-check. H. W. Daggs. No. 953,378; Mar. 29; Sp. p. 6033; Gaz. vol. 152; p. 1084.
Door-check. W. K. Henry. No. 960,641; June 7; Sp. p. 825; Gaz. vol. 155; p. 135.
Door-check. G. R. Martin and G. A. Hanly. No. 966,458; Aug. 9; Sp. p. 1296; Gaz. vol. 157; p. 232.
Door-check. E. Laport. No. 967,394; Aug. 16; Sp. p. 3348; Gaz. vol. 157; p. 577.
Door-check. W. K. Henry. No. 970,445; Sept. 13; Sp. p. 2761; Gaz. vol. 158; p. 464.
Door-check. J. F. Naugle. No. 972,019; Oct. 4; Sp. p. 1119; Gaz. vol. 159; p. 187.
Door-check. C. Schenck. No. 972,784; Oct. 11; Sp. p. 2756; Gaz. vol. 159; p. 469.
Door-check. J. Suter. No. 975,805; Nov. 15; Sp. p. 3823; Gaz. vol. 160; p. 644.
Door-check. H. C. Fleming. No. 978,870; Dec. 20; Sp. p. 3110; Gaz. vol. 161; p. 552.
Door check and buffer. J. C. Sibiski. No. 970,270; Sept. 13; Sp. p. 2423; Gaz. vol. 158; p. 408.
Door check and buffer, Combined. L. L. Hamilton. No. 958,959; May 24; Sp. p. 5536; Gaz. vol. 154; p. 929.
Door check and closer. J. C. Regan. No. 962,916; June 28; Sp. p. 5623; Gaz. vol. 155; p. 985.
Door check and closer. H. Knapp. No. 966,926; Aug. 9; Sp. p. 2370; Gaz. vol. 157; p. 388.
Door check and closer. F. E. Andersen. No. 969,150; Sept. 6; Sp. p. 1; Gaz. vol. 158; p. 3.
Door check and holder. O. E. Hendricks. No. 951,817; Mar. 15; Sp. p. 2754; Gaz. vol. 152; p. 503.
Door check and spring, Combined. B. Murphy. No. 979,190; Dec. 20; Sp. p. 3859; Gaz. vol. 161; p. 668.
Door-closer. H. J. Wentz. No. 957,282; May 10; Sp. p. 1702; Gaz. vol. 154; p. 298.
Door-closer. M. K. Snyder. No. 959,175; May 24; Sp. p. 5993; Gaz. vol. 154; p. 1002.
Door-closer. W. K. Henry. No. 962,144; June 21; Sp. p. 4002; Gaz. vol. 155; p. 695.
Door-closer. W. K. Henry. No. 967,769; Aug. 16; Sp. p. 4099; Gaz. vol. 157; p. 702.
Door-closer. W. K. Henry. No. 967,770; Aug. 16; Sp. p. 4102; Gaz. vol. 157; p. 703.
Door closer and check. C. B. Bishop. No. 956,275; Apr. 26; Sp. p. 5617; Gaz. vol. 153; p. 980.
Door-closer mechanism. W. K. Henry. No. 962,142; June 21; Sp. p. 3997; Gaz. vol. 155; p. 694.
Door-closing device. P. J. Decker. No. 962,198; June 21; Sp. p. 4115; Gaz. vol. 155; p. 714.
Door-closing device, Automatic. E. McClure. No. 972,631; Oct. 11; Sp. p. 2458; Gaz. vol. 159; p. 418.
Door-closing spring. P. J. Kamuf. No. 947,077; Jan. 18; Sp. p. 4592; Gaz. vol. 150; p. 758.
Door, Collapsible. H. Hedwall. No. 958,961; May 24; Sp. p. 5539; Gaz. vol. 154; p. 930.
Door, Combined screen and storm. C. W. Kohl. No. 964,111; July 12; Sp. p. 2395; Gaz. vol. 156; p. 392.
Door-controlling apparatus. H. G. Voight. No. 951,295; Mar. 8; Sp. p. 1686; Gaz. vol. 152; p. 298.
Door-controlling device, Sliding-. E. F. Smith. No. 972,271; Oct. 11; Sp. p. 1657; Gaz. vol. 159; p. 291.
Door-controlling mechanism. H. G. Voight and N. B. Hurd. No. 958,447; May 17; Sp. p. 4464; Gaz. vol. 154; p. 730.
Door-controlling mechanism. W. K. Henry. No. 962,143; June 21; Sp. p. 3999; Gaz. vol. 155; p. 694.
Door, Disappearing. M. Taussig. No. 972,412; Oct. 11; Sp. p. 1945; Gaz. vol. 159; p. 341.
Door, Disappearing. H. W. McAfee. No. 972,466; Oct. 11; Sp. p. 2046; Gaz. vol. 159; p. 359.
Door-fastener. J. E. Hawkins. No. 954,432; Apr. 12; Sp. p. 1549; Gaz. vol. 153; p. 285.
Door-fastener. A. M. Hoes. No. 954,806; Apr. 12; Sp. p. 2432; Gaz. vol. 153; p. 415.
Door-fastener. J. Early. No. 960,521; June 7; Sp. p. 567; Gaz. vol. 155; p. 94.
Door-fastener. C. C. Kusterer. No. 960,961; June 7; Sp. p. 1443; Gaz. vol. 155; p. 242.
Door-fastener. A. Langstrom. No. 965,913; Aug. 2; Sp. p. 139; Gaz. vol. 157; p. 23.
Door-fastener. F. J. Lee. No. 966,027; Aug. 2; Sp. p. 307; Gaz. vol. 157; p. 63.
Door-fastener. J. R. Mellott. No. 967,948; Aug. 23; Sp. p. 4463; Gaz. vol. 157; p. 785.
Door-fastener. J. Sorrow. No. 970,273; Sept. 13; Sp. p. 2427; Gaz. vol. 158; p. 409.
Door-fastener. C. Eytalis. No. 971,498; Sept. 27; Sp. p. 4949; Gaz. vol. 158; p. 867.
Door-fastener. A. Shedlock. No. 976,403; Nov. 22; Sp. p. 5150; Gaz. vol. 160; p. 874.
Door-fastener. E. J. Wirfs. No. 978,098; Dec. 6; Sp. p. 1457; Gaz. vol. 161; p. 235.
Door-fastener. M. F. Stadtmuller. No. 979,218; Dec. 20; Sp. p. 3926; Gaz. vol. 161; p. 677.
Door-fastener, Automatic. L. M. Mochau. No. 946,764; Jan. 18; Sp. p. 3913; Gaz. vol. 150; p. 652.
Door fastener, Barn-. J. B. W. Hole. No. 966,444; Aug. 9; Sp. p. 1265; Gaz. vol. 157; p. 227.
Door fastener, Screen-. R. E. Tupper. No. 960,445; June 7; Sp. p. 410; Gaz. vol. 155; p. 69.
Door fastener, Sliding-. E. Watrous. No. 952,657; Mar. 22; Sp. p. 4483; Gaz. vol. 152; p. 816.
Door fastener, Sliding-. W. H. Durant. No. 953,740; Apr. 5; Sp. p. 116; Gaz. vol. 153; p. 23.
Door fastener, Sliding-. W. H. Fry. No. 953,905; Apr. 5; Sp. p. 438; Gaz. vol. 153; p. 80.
Door fastener, Sliding-. C. Eytalis. No. 979,454; Dec. 27; Sp. p. 4393; Gaz. vol. 161; p. 778.
Door-fastener spring. S. P. Stevenson. No. 965,418; July 26; Sp. p. 5211; Gaz. vol. 156; p. 894.
Door-fastening device. L. A. Day. No. 959,476; May 31; Sp. p. 6606; Gaz. vol. 154; p. 1127.
Door-fastening means, Silo-. L. M. Clark and W. S. Farrar. No. 952,876; Mar. 22; Sp. p. 4942; Gaz. vol. 152; p. 889.
Door, Flush-closing. F. B. Houser. No. 970,337; Sept. 13; Sp. p. 2546; Gaz. vol. 158; p. 429.
Door, Flush-hinge. J. G. Schmidt. No. 960,203; May 31; Sp. p. 8168; Gaz. vol. 154; p. 1374.
Door for cold-storage rooms. H. J. Flotron and J. J. Hamilton. No. 955,782; Apr. 19; Sp. p. 4507; Gaz. vol. 153; p. 779.
Door for hotel-entrances and the like. J. Wendler. No. 969,582; Sept. 6; Sp. p. 923; Gaz. vol. 158; p. 147.
Door for mines, quarries, elevator-shafts, &c. C. Matthews. No. 963,611; July 5; Sp. p. 1305; Gaz. vol. 156; p. 201.
Door for runway-openings. J. J. Lichter. No. 961,622; June 14; Sp. p. 2858; Gaz. vol. 155; p. 494.
Door for silos. F. J. Van Cott. No. 976,951; Nov. 29; Sp. p. 6347; Gaz. vol. 160; p. 1086.
Door-frame. E. A. Ekedahl. No. 958,795; May 24; Sp. p. 5182; Gaz. vol. 154; p. 872.
Door, Grain-. H. M. Hickman. No. 947,063; Jan. 18; Sp. p. 4568; Gaz. vol. 150; p. 753.
Door, Grain-. J. A. King. No. 951,281; Mar. 8; Sp. p. 1658; Gaz. vol. 152; p. 294.
Door, Grain-. H. Thompson. No. 953,869; Apr. 5; Sp. p. 372; Gaz. vol. 153; p. 69.
Door, Grain-. A. A. Kramer. No. 957,424; May 10; Sp. p. 2001; Gaz. vol. 154; p. 345.
Door, Grain-. E. B. Gilleland. No. 967,870; Aug. 16; Sp. p. 4301; Gaz. vol. 157; p. 736.
Door, Grain-. E. Posson. No. 969,405; Sept. 6; Sp. p. 541; Gaz. vol. 158; p. 87.

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Door, Grain-. W. H. Jump. No. 971,617; Oct. 4; Sp. p. 235; Gaz. vol. 159; p. 41.
Door, Grain-. R. B. and I. C. Catton. No. 972,505; Oct. 11; Sp. p. 2148; Gaz. vol. 159; p. 373.
Door, Grain-. R. Goodwin. No. 976,357; Nov. 22; Sp. p. 5046; Gaz. vol. 160; p. 856.
Door, Grain-. E. Posson. No. 977,042; Nov. 29; Sp. p. 6548; Gaz. vol. 160; p. 1118.
Door-guard. O. Freyberg. No. 975,760; Nov. 15; Sp. p. 3735; Gaz. vol. 160; p. 629.
Door-guide. R. A. Crosby and S. McGooden. No. 955,502; Apr. 19; Sp. p. 3895; Gaz. vol. 153; p. 684.
Door guide-bracket, Sliding-. J. Gauthier. No. 975,761; Nov. 15; Sp. p. 3735; Gaz. vol. 160; p. 629.
Door-handle, Safety. D. Schuyler and H. Laughlin, Jr. No. 956,433; Apr. 26; Sp. p. 5948; Gaz. vol. 153; p. 1034.
Door handle, Sliding-. D. W. Millsaps. No. 972,773; Oct. 11; Sp. p. 2736; Gaz. vol. 159; p. 465.
Door-hanger. J. Olman. No. 947,930; Feb. 1; Sp. p. 310; Gaz. vol. 151; p. 52.
Door-hanger. C. E. Frye. No. 949,067; Feb. 15; Sp. p. 2714; Gaz. vol. 151; p. 482.
Door-hanger. I. Johnson. No. 949,826; Feb. 22; Sp. p. 4284; Gaz. vol. 151; p. 772.
Door-hanger. V. Cheney. No. 951,498; Mar. 8; Sp. p. 2114; Gaz. vol. 152; p. 366.
Door-hanger. M. Cossey. No. 954,933; Apr. 12; Sp. p. 2719; Gaz. vol. 153; p. 460.
Door-hanger. H. E. Ballard. No. 956,025; Apr. 26; Sp. p. 5049; Gaz. vol. 153; p. 893.
Door-hanger. C. Lakosky. No. 960,350; June 7; Sp. p. 233; Gaz. vol. 155; p. 39.
Door-hanger. F. K. Fassett. No. 961,850; June 21; Sp. p. 3343; Gaz. vol. 155; p. 594.
Door-hanger. A. Wagner. No. 962,538; June 28; Sp. p. 4859; Gaz. vol. 155; p. 854.
Door-hanger. G. A. Glover. No. 966,007; Aug. 2; Sp. p. 345; Gaz. vol. 157; p. 56.
Door-hanger. H. L. Biddle. No. 971,586; Oct. 4; Sp. p. 161; Gaz. vol. 159; p. 30.
Door-hanger. M. Lima. No. 971,906; Oct. 4; Sp. p. 855; Gaz. vol. 159; p. 146.
Door-hanger. C. O. Marx. No. 974,089; Oct. 25; Sp. p. 5599; Gaz. vol. 159; p. 970.
Door hanger and track, Combined. S. J. Cleveland. No. 972,679; Oct. 11; Sp. p. 2541; Gaz. vol. 159; p. 433.
Door-hanger, Ball-bearing. R. Newsam and J. A. Schwartz. No. 967,823; Aug. 16; Sp. p. 4211; Gaz. vol. 157; p. 720.
Door hanger, Barn-. W. F. Jacobs. No. 949,076; Feb. 15; Sp. p. 2729; Gaz. vol. 151; p. 485.
Door hanger, Barn-. F. M. Yentzer. No. 963,975; July 12; Sp. p. 2105; Gaz. vol. 156; p. 344.
Door hanger, Barn-. J. M. Whipps. No. 970,408; Sept. 13; Sp. p. 2676; Gaz. vol. 158; p. 452.
Door hanger, Sliding-. G. J. Hanson. No. 967,765; Aug. 16; Sp. p. 4092; Gaz. vol. 157; p. 701.
Door hanger, Swinging-. P. M. Hotchkin and A. J. Morgan. No. 972,377; Oct. 11; Sp. p. 1868; Gaz. vol. 159; p. 327.
Door-hanger track. E. W. Topping. No. 963,261; July 5; Sp. p. 605; Gaz. vol. 156; p. 84.
Door-hanger track and support. I. W. Davis. No. 946,694; Jan. 18; Sp. p. 3758; Gaz. vol. 150; p. 628.
Door-hanger track and support. R. A. Nourse. No. 971,629; Oct. 4; Sp. p. 254; Gaz. vol. 159; p. 45.
Door-hanging device. F. J. Webb. No. 966,276; Aug. 2; Sp. p. 914; Gaz. vol. 157; p. 146.
Door-hanging device, Sliding-. C. F. Lamphier and M. F. Trenchard. No. 946,376; Jan. 11; Sp. p. 3096; Gaz. vol. 150; p. 497.
Door-holder. A. G. Hanson. No. 953,662; Mar. 29; Sp. p. 6632; Gaz. vol. 152; p. 1183.
Door-holder. F. Miller. No. 962,376; June 21; Sp. p. 4477; Gaz. vol. 155; p. 772.
Door-holder. C. F. Link. No. 964,283; July 12; Sp. p. 2734; Gaz. vol. 156; p. 451.
Door-holder. E. W. Hasenpflug. No. 966,913; Aug. 9; Sp. p. 2338; Gaz. vol. 157; p. 384.
Door-holder. C. T. Rogers. No. 977,225; Nov. 29; Sp. p. 6953; Gaz. vol. 160; p. 1182.
Door-key, Guard. W. S. Myers and T. Alexander. No. 958,667; May 17; Sp. p. 4886; Gaz. vol. 154; p. 802.
Door, Lifting. A. Ritter. No. 965,940; Aug. 2; Sp. p. 190; Gaz. vol. 157; p. 33.
Door-lock. J. Jenks. No. 945,276; Jan. 4; Sp. p. 561; Gaz. vol. 150; p. 92.
Door-lock. W. H. Thomas. No. 946,523; Jan. 11; Sp. p. 3415; Gaz. vol. 150; p. 547.
Door-lock. C. R. Wallin. No. 947,048; Jan. 18; Sp. p. 4537; Gaz. vol. 150; p. 748.
Door-lock. L. F. Roberts. No. 949,548; Feb. 15; Sp. p. 3707; Gaz. vol. 151; p. 645.
Door-lock. F. Solywoda. No. 953,928; Apr. 5; Sp. p. 486; Gaz. vol. 153; p. 89.
Door-lock. J. W. Pheils. No. 956,162; Apr. 26; Sp. p. 5361; Gaz. vol. 153; p. 942.
Door-lock. J. Johnson. No. 958,406; May 17; Sp. p. 4377; Gaz. vol. 154; p. 715.
Door-lock. H. J. Amick. No. 960,245; June 7; Sp. p. 4; Gaz. vol. 155; p. 3.
Door-lock. E. D. Zinninger. No. 962,287; June 21; Sp. p. 4298; Gaz. vol. 155; p. 743.
Door-lock. A. Carpenter. No. 962,997; June 28; Sp. p. 5777; Gaz. vol. 155; p. 1011.
Door-lock. C. R. Erkens. No. 963,427; July 5; Sp. p. 932; Gaz. vol. 156; p. 139.
Door-lock. P. H. Neffien and J. F. Giffen. No. 963,632; July 5; Sp. p. 1345; Gaz. vol. 156; p. 208.
Door-lock. E. Poferl. No. 966,594; Aug. 9; Sp. p. 1636; Gaz. vol. 157; p. 279.
Door-lock. W. C. and J. M. Thorpe. No. 967,461; Aug. 16; Sp. p. 3471; Gaz. vol. 157; p. 598.
Door-lock. S. Schacht. No. 971,314; Sept. 27; Sp. p. 4609; Gaz. vol. 158; p. 807.
Door-lock. F. J. Smith. No. 973,225; Oct. 18; Sp. p. 3798; Gaz. vol. 159; p. 650.
Door-lock. F. Assmann. No. 975,819; Nov. 15; Sp. p. 3844; Gaz. vol. 160; p. 648.
Door-lock. A. J. Helms. No. 979,948; Dec. 27; Sp. p. 5472; Gaz. vol. 161; p. 946.
Door lock and switch. E. E. Saphore. No. 948,796; Feb. 8; Sp. p. 2157; Gaz. vol. 151; p. 367.
Door lock, Double-. F. Lahr. No. 947,641; Jan. 25; Sp. p. 5883; Gaz. vol. 150; p. 976.
Door lock, Double-. A. M. Hoes. No. 966,208; Aug. 2; Sp. p. 791; Gaz. vol. 157; p. 125.
Door lock, Emergency-exit-. P. W. Hodgkinson. No. 974,886; Nov. 8; Sp. p. 1826; Gaz. vol. 160; p. 304.
Door lock, Entrance-. A. Arens. No. 959,834; May 31; Sp. p. 7366; Gaz. vol. 154; p. 1247.
Door lock, Entrance-. A. Arens. No. 971,340; Sept. 27; Sp. p. 4663; Gaz. vol. 158; p. 815.
Door lock, Locker-. D. Churchill. No. 973,001; Oct. 18; Sp. p. 3288; Gaz. vol. 159; p. 572.
Door-lock, Mortise. D. W. Weed. No. 966,970; Aug. 9; Sp. p. 2452; Gaz. vol. 157; p. 403.
Door-lock, Mortise. D. W. Weed. No. 971,333; Sept. 27; Sp. p. 4648; Gaz. vol. 158; p. 813.
Door-lock, Portable. W. S. Callery and A. Francis. No. 963,419; July 5; Sp. p. 918; Gaz. vol. 156; p. 136.
Door lock, Sliding-. J. H. Herrick. No. 950,132; Feb. 22; Sp. p. 4995; Gaz. vol. 151; p. 878.
Door lock, Sliding-. A. H. Stone. No. 973,990; Oct. 25; Sp. p. 5403; Gaz. vol. 159; p. 937.
Door lock, Sliding-. F. W. Hettwer. No. 975,037; Nov. 8; Sp. p. 2182; Gaz. vol. 160; p. 355.
Door-locking device. F. S. Crabtree. No. 975,122; Nov. 8; Sp. p. 2363; Gaz. vol. 160; p. 385.
Door-locking device, Sliding-. J. Kohn. No. 967,787; Aug. 16; Sp. p. 4136; Gaz. vol. 157; p. 709.
Door-locking mechanism. T. P. Shean. No. 980,131; Dec. 27; Sp. p. 5894; Gaz. vol. 161; p. 1007.
Door locking mechanism, Emergency-. A. J. Prevost. No. 975,456; Nov. 15; Sp. p. 3071; Gaz. vol. 160; p. 525.
Door mechanism. J. Pearson. No. 945,108; Jan. 4; Sp. p. 208; Gaz. vol. 150; p. 35.
Door mechanism or the like. J. Pearson. No. 977,676; Dec. 6; Sp. p. 576; Gaz. vol. 161; p. 88.
Door, Metal. S. F. Myers. No. 959,782; May 31; Sp. p. 7237; Gaz. vol. 154; p. 1229.
Door, Metal. G. Carlson. No. 970,985; Sept. 20; Sp. p. 3924; Gaz. vol. 158; p. 671.
Door, Metallic. C. Dahlstrom. No. 945,224; Jan. 4; Sp. p. 451; Gaz. vol. 150; p. 75.
Door, Metallic. F. M. Brinckerhoff. No. 969,518; Sept. 6; Sp. p. 779; Gaz. vol. 158; p. 122.
Door, Metallic. E. G. Budd. No. 973,751; Oct. 25; Sp. p. 4901; Gaz. vol. 159; p. 852.
Door, Metallic. G. B. Breakey. No. 977,366; Nov. 29; Sp. p. 7251; Gaz. vol. 160; p. 1230.
Door-moving mechanism. H. Rowntree. No. 976,924; Nov. 29; Sp. p. 6269; Gaz. vol. 160; p. 1076.
Door-opener. J. L. McKee and R. R. Gates. No. 948,737; Feb. 8; Sp. p. 2031; Gaz. vol. 151; p. 347.
Door-opener. C. Cleary. No. 974,359; Nov. 1; Sp. p. 646; Gaz. vol. 160; p. 96.
Door-opener, Electric. J. Loch. No. 956,379; Apr. 26; Sp. p. 5842; Gaz. vol. 153; p. 1015.
Door opening and closing device. T. M. Blackwell. No. 955,125; Apr. 19; Sp. p. 3083; Gaz. vol. 153; p. 554.
Door opening and closing device. H. C. Bundy. No. 975,507; Nov. 15; Sp. p. 3186; Gaz. vol. 160; p. 543.
Door-opening device. T. J. C. Schirrmacher. No. 959,615; May 31; Sp. p. 6899; Gaz. vol. 154; p. 1174.
Door-opening mechanism. A. Ritter. No. 952,713; Mar. 22; Sp. p. 4602; Gaz. vol. 152; p. 834.
Door operating and locking device. Prison-. B. F. Klohs. No. 964,525; July 19; Sp. p. 3249; Gaz. vol. 156; p. 560.
Door-operating device, Jail-. C. M. Finch and F. A. Koetitz. No. 959,329; May 24; Sp. p. 6297; Gaz. vol. 154; p. 1053.
Door-operating device, Mine-. F. C. Todd. No. 963,260; July 5; Sp. p. 603; Gaz. vol. 156; p. 83.
Door-operating means. E. M. Matthews. No. 952,829; Mar. 22; Sp. p. 4856; Gaz. vol. 152; p. 874.
Door-operating means, Sliding-. P. Wheeler. No. 957,284; May 10; Sp. p. 1707; Gaz. vol. 154; p. 298.
Door-operating mechanism. P. J. Harrigan. No. 975,860; Nov. 15; Sp. p. 3928; Gaz. vol. 160; p. 662.
Door-operating mechanism, Dump-. O. W. Meissner. No. 951,884; Mar. 15; Sp. p. 2905; Gaz. vol. 152; p. 526.

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Door-operating mechanism, Dump-. F. Seaberg. No. 965,023; July 19; Sp. p. 4383; Gaz. vol. 156; p. 731.
Door-operating mechanism, Dumping-. J. O. Neikirk. No. 793,874; Oct. 25; Sp. p. 5165; Gaz. vol. 159; p. 897.
Door-operator. P. T. Handiges. No. 959,523; May 31; Sp. p. 6709; Gaz. vol. 154; p. 1142.
Door-operator, Electric. T. Nakahara. No. 957,572; May 10; Sp. p. 2286; Gaz. vol. 154; p. 396.
Door or window guard. E. L. Drinkwater. No. 958,481; May 17; Sp. p. 4529; Gaz. vol. 154; p. 741.
Door plates or signs, Apparatus for manufacturing. C. Simmang, Jr. No. 951,343; Mar. 8; Sp. p. 1790; Gaz. vol. 152; p. 314.
Door-releasing apparatus. B. L. Bitting. No. 961,578; June 14; Sp. p. 2764; Gaz. vol. 155; p. 479.
Door-releasing mechanism. T. B. Rankin. No. 966,241; Aug. 2; Sp. p. 852; Gaz. vol. 157; p. 136.
Door, Revolving. F. Clymer and J. Degen. No. 975,510; Nov. 15; Sp. p. 3196; Gaz. vol. 160; p. 544.
Door, Screen-. B. C. Rockwell. No. 957,100; May 3; Sp. p. 1287; Gaz. vol. 154; p. 204.
Door-screen, Ventilating. I. B. Seeley. No. 956,437; Apr. 26; Sp. p. 5961; Gaz. vol. 153; p. 1035.
Door-securer. C. W. Lent. No. 945,558; Jan. 4; Sp. p. 1194; Gaz. vol. 150; p. 185.
Door-securer. H. Helle. No. 946,437; Jan. 11; Sp. p. 3225; Gaz. vol. 150; p. 518.
Door-securer. F. T. Robinson. No. 953,861; Apr. 5; Sp. p. 360; Gaz. vol. 153; p. 64.
Door-securer. H. M. Miller. No. 961,880; June 21; Sp. p. 3424; Gaz. vol. 155; p. 605.
Door-securer. C. H. Johnson. No. 969,631; Sept. 6; Sp. p. 1021; Gaz. vol. 158; p. 163.
Door-securer. A. Dufault. No. 976,444; Nov. 22; Sp. p. 5238; Gaz. vol. 160; p. 888.
Door-securer. E. R. Fuchs. No. 977,182; Nov. 29; Sp. p. 6878; Gaz. vol. 160; p. 1167.
Door-securer. E. R. Fuchs. No. 977,184; Nov. 29; Sp. p. 6882; Gaz. vol. 160; p. 1168.
Door-securer. J. Kohn. No. 977,316; Nov. 29; Sp. p. 7121; Gaz. vol. 160; p. 1212.
Door-securer. R. E. Hutchinson. No. 979,167; Dec. 20; Sp. p. 3812; Gaz. vol. 161; p. 660.
Door-securing device. E. R. Fuchs. No. 977,183; Nov. 29; Sp. p. 6880; Gaz. vol. 160; p. 1168.
Door shock-absorber. T. P. Shean. No. 978,949; Dec. 20; Sp. p. 3283; Gaz. vol. 161; p. 582.
Door, shutter, &c., fastener. M. Dessauer and S. Baruch. No. 963,527; July 5; Sp. p. 1137; Gaz. vol. 156; p. 173.
Door, Sliding. G. Peterson. No. 946,462; Jan. 11; Sp. p. 3281; Gaz. vol. 150; p. 527.
Door, Sliding. C. M. Donaldson. No. 947,225; Jan. 25; Sp. p. 4894; Gaz. vol. 150; p. 835.
Door, Sliding. R. W. Schweimler. No. 953,924; Apr. 5; Sp. p. 477; Gaz. vol. 153; p. 87.
Door, Sliding. O. Richards. No. 969,192; Sept. 6; Sp. p. 105; Gaz. vol. 158; p. 17.
Door-spring. E. Bommer. No. 978,548; Dec. 13; Sp. p. 2439; Gaz. vol. 161; p. 420.
Door-stay. M. Logan. No. 952,705; Mar. 22; Sp. p. 4583; Gaz. vol. 152; p. 831.
Door-stay. O. Eaton. No. 978,568; Dec. 13; Sp. p. 2506; Gaz. vol. 161; p. 427.
Door-stop. T. A. Smith. No. 950,707; Mar. 1; Sp. p. 537; Gaz. vol. 152; p. 84.
Door-stop. G. E. Houser. No. 953,037; Mar. 29; Sp. p. 5272; Gaz. vol. 152; p. 971.
Door-stop. E. Vanoni. No. 957,584; May 10; Sp. p. 2303; Gaz. vol. 154; p. 400.
Door-stop. G. J. Poeppelmeier. No. 965,537; July 26; Sp. p. 5504; Gaz. vol. 156; p. 937.
Door-stop. W. C. Knapp. No. 968,059; Aug. 23; Sp. p. 4714; Gaz. vol. 157; p. 823.
Door-stop. J. W. Hagerty. No. 968,936; Aug. 30; Sp. p. 6607; Gaz. vol. 157; p. 1150.
Door-stop. A. Arens and E. L. Teich. No. 976,138; Nov. 22; Sp. p. 4505; Gaz. vol. 160; p. 781.
Door-stop. A. J. Prevost. No. 976,597; Nov. 22; Sp. p. 5561; Gaz vol. 160; p. 940.
Door stop and releasing device. T. P. Shean. No. 951,261; Mar. 8; Sp. p. 1609; Gaz. vol. 152; p. 288.
Door-stop brace and fastener, Combined. W. J. Bohan. No. 970,602; Sept. 20; Sp. p. 3108; Gaz. vol. 158; p. 541.
Door structure. F. Y. Parsons. No. 963,386; July 5; Sp. p. 848; Gaz. vol. 156; p. 125.
Door suitable for closing openings in ships' bulkheads and other purposes. F. L. Lane. No. 970,838; Sept. 20; Sp. p. 3654; Gaz. vol. 158; p. 624.
Door support, Disappearing-. A. Vanderveld. No. 974,542; Nov. 1; Sp. p. 1081; Gaz. vol. 160; p. 162.
Door-supporting clamp. A. B. Morse. No. 961,983; June 21; Sp. p. 3625; Gaz. vol. 155; p. 638.
Door-supporting device. M. Cossey. No. 950,717; Mar. 1; Sp. p. 559; Gaz. vol. 152; p. 87.
Door-supporting means. W. B. Shaw. No. 951,971; Mar. 15; Sp. p. 3074; Gaz. vol. 152; p. 555.
Door-switch. J. G. Peterson. No. 970,264; Sept. 13; Sp. p. 2413; Gaz. vol. 158; p. 406.
Door-switch operator. J. G. Peterson. No. 966,702; Aug. 9; Sp. p. 1841; Gaz. vol. 157; p. 315.
Door track and hanger, Covered barn-. E. F. Monnier. No. 947,019; Jan. 18; Sp. p. 4495; Gaz. vol. 150; p. 740.
Door, Turning. A. Goubeaut. No. 959,514; May 31; Sp. p. 6697; Gaz. vol. 154; p. 1140.
Door, Vault and strong-room. T. S. Spivey. No. 954,547; Apr. 12; Sp. p. 1813; Gaz. vol. 153; p. 325.
Door, Vault and strong-room. G. A. Hattersley. No. 961,227; June 14; Sp. p. 2002; Gaz. vol. 155; p. 361.
Door with non-concentric casing, Revolving. T. Van Kannel. No. 947,504; Jan. 25; Sp. p. 5598; Gaz. vol. 150; p. 930.
Doors, Air-check for sliding. H. Laughlin, Jr., and D. Schuyler. No. 969,641; Sept. 6; Sp. p. 1042; Gaz. vol. 158; p. 167.
Doors and the like, Locking means for. P. Schmahl. No. 963,655; July 5; Sp. p. 1385; Gaz. vol. 156; p. 215.
Doors and the like structure, Metallic. C. E. Nellis. No. 964,676; July 19; Sp. p. 3585; Gaz. vol. 156; p. 613.
Doors, Automatic locking device for hatchway-. M. Hegbom. No. 963,223; July 5; Sp. p. 499; Gaz. vol. 156; p. 70.
Doors, Back-stop for sliding. A. Darrach. No. 961,758; June 21; Sp. p. 3139; Gaz. vol. 155; p. 564.
Doors, Draft-excluder for. G. Götte. No. 974,959; Nov. 8; Sp. p. 2014; Gaz. vol. 160; p. 330.
Doors from sagging, Device for preventing. P. E. Nordqvist. No. 955,674; Apr. 19; Sp. p. 4289; Gaz. vol. 153; p. 742.
Doors, Means for securing locks to. W. H. Taylor. No. 967,858; Aug. 16; Sp. p. 4277; Gaz. vol. 157; p. 732.
Doors of hatches, Means for operating. J. T. Taylor. No. 955,561; Apr. 19; Sp. p. 4014; Gaz. vol. 153; p. 703.
Doors, Paneling. H. W. Phillips. No. 965,220; July 26; Sp. p. 4783; Gaz. vol. 156; p. 827.
Doors, panelings, or the like, Construction of. H. C. Badder. No. 968,108; Aug. 23; Sp. p. 4833; Gaz. vol. 157; p. 839.
Doors, Self-closing device for. R. E. Adam. No. 967,289; Aug. 16; Sp. p. 3114; Gaz. vol. 157; p. 540.
Doors, windows, &c., Fastening device for. P. T. Molkentin. No. 975,977; Nov. 15; Sp. p. 4156; Gaz. vol. 160; p. 703.
Double-acting self-feeding drill. R. W. Kreis. No. 974,978; Nov. 8; Sp. p. 2060; Gaz. vol. 160; p. 336.
Double and swingle tree coupling. S. B. Hazard. No. 945,945; Jan. 11; Sp. p. 2094; Gaz. vol. 150; p. 349.
Double-facer. F. Busald. No. 956,794; May 3; Sp. p. 629; Gaz. vol. 154; p. 100.
Double rake. R. N. Kenney. No. 972,539; Oct. 11; Sp. p. 2234; Gaz. vol. 159; p. 386.
Doubletree. W. E. Woods. No. 951,715; Mar. 8; Sp. p. 2518; Gaz. vol. 152; p. 438.
Doubletree attachment. W. R. Ball. No. 967,155; Aug. 16; Sp. p. 2855; Gaz. vol. 157; p. 494.
Doubling and twisting machines, Stop-motion for. R. S. Reinhardt. No. 959,263; May 24; Sp. p. 6163; Gaz. vol. 154; p. 1030.
Doubling-frame. P. B. Whitehead. No. 976,761; Nov. 22; Sp. p. 5892; Gaz. vol. 160; p. 995.
Doubling machines, Stopping device for silk-. P. Saracco. No. 976,499; Nov. 22; Sp. p. 5347; Gaz. vol. 160; p. 907.
Doubling mechanism. L. C. Steele. No. 952,052; Mar. 15; Sp. p. 3230; Gaz. vol. 152; p. 582.
Douche apparatus, Breast-. A. Mantelet, Fils. No. 973,445; Oct. 18; Sp. p. 4251; Gaz. vol. 159; p. 724.
Dough and like plastic substances, Machine for mixing and kneading. J. E. and C. E. Pointon. No. 959,963; May 31; Sp. p. 7665; Gaz. vol. 154; p. 1293.
Dough-brake. J. H. Day and P. S. Ward. No. 954,937; Apr. 12; Sp. p. 2724; Gaz. vol. 153; p. 461.
Dough-cutter. H. J. Guttman. No. 946,898; Jan. 18; Sp. p. 4255; Gaz. vol. 150; p. 699.
Dough-divider. R. J. F. and A. E. Aldred. No. 967,700; Aug. 16; Sp. p. 3950; Gaz. vol. 157; p. 678.
Dough dividing and rounding machine. A. Eggenhofer. No. 978,440; Dec. 13; Sp. p. 2210; Gaz. vol. 161; p. 383.
Dough mixer, Bread-. L. Hayne and E. B. Pike. No. 978,372; Dec. 13; Sp. p. 2061; Gaz. vol. 161; p. 360.
Dough-mixing apparatus. H. H. Wilson. No. 946,300; Jan. 11; Sp. p. 2845; Gaz. vol. 150; p. 472.
Dough-mixing machine. F. Seiffert. No. 949,132; Feb. 15; Sp. p. 2854; Gaz. vol. 151; p. 504.
Dough-mixing machine. F. H. Van Houten. No. 969,311, Sept. 6; Sp. p. 330; Gaz. vol. 158; p. 55.
Dough-molding machine. F. Streich. No. 947,500; Jan. 25; Sp. p. 5590; Gaz. vol. 150; p. 928.
Dough-molding machine. F. Streich. No. 957,390; May 10; Sp. p. 1921; Gaz. vol. 154; p. 334.
Dough-molding machine. F. Streich. No. 978,233; Dec. 13; Sp. p. 1771; Gaz. vol. 161; p. 311.
Dough or analogous material, Machine for mixing and kneading. O. T. Bugg, Jr. No. 949,618; Feb. 15; Sp. p. 3837; Gaz. vol. 151; p. 669.
Dough portions into loaves, Machine for molding. J. and H. L. Callow. No. 975,932; Nov. 15; Sp. p. 4073; Gaz. vol. 160; p. 687.
Dough-raiser. J. C. Grant. No. 969,533; Sept. 6; Sp. p. 817; Gaz. vol. 158; p. 129.
Dough-raising device. A. Hillman. No. 967,193; Aug. 16; Sp. p. 2937; Gaz. vol. 157; p. 507.

Alphabetical list of inventions—Continued.

Dough-severing device. J. Newfield. No. 950,727; Mar. 1; Sp. p. 578; Gaz. vol. 152; p. 90.
Dough-shaping implement. G. H. Petri. No. 978,482; Dec. 13; Sp. p. 2304; Gaz. vol. 161; p. 397.
Dovetailing-machine. J. R. Thomas and P. A. Solem. No. 946,811; Jan. 18; Sp. p. 4033; Gaz. vol. 150; p. 669.
Dowel. H. A. Underwood. No. 961,992; June 21; Sp. p. 3644; Gaz. vol. 155; p. 641.
Dowel. R. Sieper. No. 968,089; Aug. 23; Sp. p. 4793; Gaz. vol. 157; p. 833.
Dowel-machine. M. Brochu. No. 961,930; June 21; Sp. p. 3512; Gaz. vol. 155; p. 620.
Dowel-pin. S. C. O. Berg. No. 949,611; Feb. 15; Sp. p. 3823; Gaz. vol. 151; p. 666.
Down-spout. E. Cardarelli. No. 974,550; Nov. 1; Sp. p. 1099; Gaz. vol. 160; p. 165.
Downdraft sectional boiler. E. M. Bosley. No. 954,417; Apr. 12; Sp. p. 1527; Gaz. vol. 153; p. 280.
Draft and buffing mechanism. H. T. Krakau. No. 963,158; July 5; Sp. p. 333; Gaz. vol. 156; p. 47.
Draft appliance. T. J. Dudley. No. 949,525; Feb. 15; Sp. p. 3655; Gaz. vol. 151; p. 636.
Draft appliance. C. Barker. No. 963,499; July 5; Sp. p. 1072; Gaz. vol. 156; p. 163.
Draft appliance. H. C. Huff. No. 968,662; Aug. 30; Sp. p. 6026; Gaz. vol. 157; p. 1058.
Draft appliance. W. W. Winger. No. 971,870; Oct. 4; Sp. p. 767; Gaz. vol. 159; p. 133.
Draft appliance for fireplaces. S. A. D. Doane. No. 948,007; Feb. 1; Sp. p. 470; Gaz. vol. 151; p. 76.
Draft-arm, Double-stream. B. K. Dosterschill. No. 963,530; July 5; Sp. p. 1143; Gaz. vol. 156; p. 174.
Draft-concentrator. P. J. Mooney. No. 955,605; Apr. 19; Sp. p. 4130; Gaz. vol. 153; p. 718.
Draft device. M. H. Petigor and J. Parker. No. 966,353; Aug. 2; Sp. p. 1054; Gaz. vol. 157; p. 170.
Draft device. T. S. Moffett. No. 971,393; Sept. 27; Sp. p. 4764; Gaz. vol. 158; p. 833.
Draft device. S. Rouse. No. 976,302; Nov. 22; Sp. p. 4922; Gaz. vol. 160; p. 838.
Draft device. E. M. Dowdy. No. 977,284; Nov. 29; Sp. p. 7067; Gaz. vol. 160; p. 1202.
Draft-equalizer. F. M. Smiley. No. 946,405; Jan. 11; Sp. p. 3157; Gaz. vol. 150; p. 508.
Draft-equalizer. D. Scheer. No. 947,203; Jan. 18; Sp. p. 4835; Gaz. vol. 150; p. 798.
Draft-equalizer. J. N. Taylor. No. 947,564; Jan. 25; Sp. p. 5717; Gaz. vol. 150; p. 949.
Draft-equalizer. W. Elliott and R. H. Schlachter. No. 947,893; Feb. 1; Sp. p. 246; Gaz. vol. 151; p. 40.
Draft-equalizer. W. Elliott and R. H. Schlachter. No. 947,894; Feb. 1; Sp. p. 248; Gaz. vol. 151; p. 41.
Draft-equalizer. F. Clark. No. 950,840; Mar. 1; Sp. p. 811; Gaz. vol. 152; p. 129.
Draft-equalizer. B. J. Brunke. No. 951,210; Mar. 8; Sp. p. 1503; Gaz. vol. 152; p. 272.
Draft-equalizer. H. J. Heider. No. 952,900; Mar. 22; Sp. p. 4993; Gaz. vol. 152; p. 897.
Draft-equalizer. J. B. Pollon. No. 953,710; Apr. 5; Sp. p. 56; Gaz. vol. 153; p. 13.
Draft-equalizer. J. Van Matre. No. 957,821; May 10; Sp. p. 2792; Gaz. vol. 154; p. 479.
Draft-equalizer. J. Van Matre. No. 960,126; May 31; Sp. p. 8024; Gaz. vol. 154; p. 1348.
Draft-equalizer. A. B. Olsen. No. 960,687; June 7; Sp. p. 914; Gaz. vol. 155; p. 152.
Draft-equalizer. E. J. D. Miller. No. 961,513; June 14; Sp. p. 2624; Gaz. vol. 155; p. 458.
Draft-equalizer. H. A. Schaub. No. 961,649; June 14; Sp. p. 2908; Gaz. vol. 155; p. 503.
Draft-equalizer. W. Schluter. No. 962,056; June 21; Sp. p. 3785; Gaz. vol. 155; p. 664.
Draft-equalizer. W. Schoenecker. No. 964,319; July 12; Sp. p. 2803; Gaz. vol. 156; p. 462.
Draft-equalizer. H. O. Turner. No. 965,345; July 26; Sp. p. 5073; Gaz. vol. 156; p. 871.
Draft-equalizer. D. W. McNatt. No. 972,012; Oct. 4; Sp. p. 1105; Gaz. vol. 159; p. 185.
Draft-equalizer. W. Elliott, R. H. Schlachter, and A. L. Tolles. No. 979,387; Dec. 20; Sp. p. 4244; Gaz. vol. 161; p. 731.
Draft-equalizing device. A. Hines. No. 958,811; May 24; Sp. p. 5208; Gaz. vol. 154; p. 878.
Draft-evener. G. I. Bristol. No. 957,736; May 10; Sp. p. 2614; Gaz. vol. 154; p. 452.
Draft-evener. G. E. Koehler. No. 963,902; July 12; Sp. p. 1951; Gaz. vol. 156; p. 321.
Draft-evener. J. E. Caywood. No. 965,080; July 19; Sp. p. 4508; Gaz. vol. 156; p. 750.
Draft-evener attachment. C. L. Hofwolt. No. 950,046; Feb. 22; Sp. p. 4836; Gaz. vol. 151; p. 850.
Draft-gear. M. Carr. No. 946,994; Jan. 18; Sp. p. 4441; Gaz. vol. 150; p. 731.
Draft-gear. H. T. Krakau. No. 947,244; Jan. 25; Sp. p. 4933; Gaz. vol. 150; p. 841.
Draft-gear. H. F. Pope. No. 947,348; Jan. 25; Sp. p. 5217; Gaz. vol. 150; p. 879.
Draft-gear. H. F. Pope. No. 947,349; Jan. 25; Sp. p. 5219; Gaz. vol. 150; p. 879.
Draft-gear. H. F. Pope. No. 947,757; Jan. 25; Sp. p. 6079; Gaz. vol. 150; p. 1014.
Draft-gear. H. C. Buhoup. No. 950,472; Mar. 1; Sp. p. 8; Gaz. vol. 152; p. 4.
Draft-gear. C. A. Lindström. No. 950,570; Mar. 1; Sp. p. 228; Gaz. vol. 152; p. 38.
Draft-gear. A. L. Stanford. No. 954,058; Apr. 5; Sp. p. 751; Gaz. vol. 153; p. 131.
Draft-gear. O. Anderson. No. 954,071; Apr. 5; Sp. p. 782; Gaz. vol. 153; p. 136.
Draft-gear. C. S. Corning. No. 954,378; Apr. 5; Sp. p. 1437; Gaz. vol. 153; p. 240.
Draft-gear. T. L. McKeen. No. 966,114; Aug. 2; Sp. p. 567; Gaz. vol. 157; p. 92.
Draft-gear. H. F. Pope. No. 969,562; Sept. 6; Sp. p. 884; Gaz. vol. 158; p. 140.
Draft-gear. J. F. Courson. No. 970,802; Sept. 20; Sp. p. 3580; Gaz. vol. 158; p. 612.
Draft gear and vestibule, Radial-. H. T. Krakau. No. 946,875; Jan. 18; Sp. p. 4197; Gaz. vol. 150; p. 691.
Draft-gear, Friction. J. F. Courson. No. 945,700; Jan. 4; Sp. p. 1478; Gaz. vol. 150; p. 231.
Draft-gear, Friction. J. A. Jackson. No. 952,672; Mar. 22; Sp. p. 4515; Gaz. vol. 152; p. 820.
Draft gear, Radial-. H. F. Pope. No. 947,258 Jan. 25; Sp. p. 4975; Gaz. vol. 150; p. 847.
Draft gear, Radial-. H. F. Pope. No. 947,756; Jan. 25; Sp. p. 6078; Gaz. vol. 150; p. 1014.
Draft gear, Radial-. E. H. Schmidt. No. 971,930; Oct. 4; Sp. p. 918; Gaz. vol. 159; p. 156.
Draft gear, Radial-. E. H. Schmidt. No. 975,896; Nov. 15; Sp. p. 4005; Gaz. vol. 160; p. 675.
Draft gear, Radial-. H. F. Pope. No. 977,473; Dec. 6; Sp. p. 96; Gaz. vol. 161; p. 18.
Draft gears, Buffer for radial-. H. T. Krakau. No. 947,245; Jan. 25; Sp. p. 4935; Gaz. vol. 150; p. 841.
Draft-gearing. J. F. Courson. No. 966,656; Aug. 9; Sp. p. 1755; Gaz. vol. 157; p. 299.
Draft-gearing. H. L. Miller. No. 973,451; Oct. 18; Sp. p. 4265; Gaz. vol. 159; p. 727.
Draft-gearing, Equalizing. L. J. Jackson. No. 968,158; Aug. 23; Sp. p. 4964; Gaz. vol. 157; p. 856.
Draft mechanism. L. J. Jackson. No. 955,805; Apr. 19; Sp. p. 4551; Gaz. vol. 153; p. 786.
Draft mechanism, Six-horse. H. Messman. No. 957,076; May 3; Sp. p. 1242; Gaz. vol. 154; p. 197.
Draft-pocket. C. A. Humphrys. No. 977,875; Dec. 6; Sp. p. 993; Gaz. vol. 161; p. 156.
Draft-regulating device. A. A. Specht. No. 955,007; Apr. 12; Sp. p. 2857; Gaz. vol. 153; p. 485.
Draft-regulator. H. T. Cornwall. No. 946,018; Jan. 11; Sp. p. 2242; Gaz. vol. 150; p. 372.
Draft-regulator. H. B. Hemphill. No. 950,918; Mar. 1; Sp. p. 955; Gaz. vol. 152; p. 153.
Draft-regulator. A. Trarbaugh. No. 951,430; Mar. 8; Sp. p. 1970; Gaz. vol. 152; p. 343.
Draft-regulator. D. M. Kimmel. No. 954,032; Apr. 5; Sp. p. 701; Gaz. vol. 153; p. 123.
Draft-regulator. F. M. Heath. No. 979,069; Dec. 20; Sp. p. 3558; Gaz. vol. 161; p. 622.
Draft-regulator, Automatic. L. Snell. No. 968,609; Aug. 30; Sp. p. 5901; Gaz. vol. 157; p. 1040.
Draft-regulator, Time-controlled. V. E. Cozine. No. 974,361; Nov. 1; Sp. p. 650; Gaz. vol. 160; p. 97.
Draft-rigging. C. Metterhausen. No. 951,325; Mar. 8; Sp. p. 1760; Gaz. vol. 152; p. 309.
Draft-rigging. C. Metterhausen. No. 951,326; Mar. 8; Sp. p. 1761; Gaz. vol. 152; p. 309.
Draft-rigging. W. P. Bettendorf. No. 960,255; June 7; Sp. p. 23; Gaz. vol. 155; p. 7.
Draft-rigging. J. Timms. No. 965,126; July 19; Sp. p. 4587; Gaz. vol. 156; p. 765.
Draft-rigging. G. Hargreaves, Jr. No. 965,183; July 26; Sp. p. 4712; Gaz. vol. 156; p. 816.
Draft-rigging. J. M. Dutelle. No. 965,446; July 26; Sp. p. 5287; Gaz. vol. 156; p. 904.
Draft-rigging. J. A. Jackson. No. 967,385; Aug. 16; Sp. p. 3311; Gaz. vol. 157; p. 573.
Draft-rigging, Combined friction and spring. W. D. Lowry. No. 964,173; July 12; Sp. p. 2505; Gaz. vol. 156; p. 411.
Draft-rigging, Friction. C. A. Tower. No. 962,993; June 28; Sp. p. 5769; Gaz. vol. 155; p. 1010.
Draft-rigging, Friction. J. F. O'Connor. No. 966,236; Aug. 2; Sp. p. 844; Gaz. vol. 157; p. 134.
Draft-rigging, Friction. W. H. Miner. No. 966,464; Aug. 9; Sp. p. 1311; Gaz. vol. 157; p. 234.
Draft-rigging, Friction. C. L. Bundy. No. 974,466; Nov. 1; Sp. p. 901; Gaz. vol. 160; p. 132.
Draft-rigging, Friction spring. J. F. O'Connor. No. 953,055; Mar. 29; Sp. p. 5304; Gaz. vol. 152; p. 977.
Draft-rigging, Transom. E. P. Kinne. No. 980,160; Dec. 27; Sp. p. 5950; Gaz. vol. 161; p. 1016.
Draft-sill. J. J. Irvin. No. 974,569; Nov. 1; Sp. p. 1141; Gaz. vol. 160; p. 172.
Draft-tube. K. G. Stenberg. No. 954,898; Apr. 12; Sp. p. 2648; Gaz. vol. 153; p. 448.
Drafting and engraving machine. H. S. Nunamaker. No. 972,569; Oct. 11; Sp. p. 2313; Gaz. vol. 159; p. 396.
Drafting appliance. F. M. Printz and A. Frost. No. 972,242; Oct. 11; Sp. p. 1602; Gaz. vol. 159; p. 282.
Drafting implement. B. Roman. No. 965,945; Aug. 2; Sp. p. 199; Gaz. vol. 157; p. 35.

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Drafting instrument. H. F. Noyes. No. 965,483; July 26; Sp. p. 5359; Gaz. vol. 156; p. 917.
Drafting instrument. D. J. Kelsey. No. 966,924; Aug. 9; Sp. p. 2367; Gaz. vol. 157; p. 388.
Drafting instrument. H. Mattinger. No. 979,872; Dec. 27; Sp. p. 5324; Gaz. vol. 161; p. 921.
Drafting instrument, Combination. W. Smith. No. 972,936; Oct. 18; Sp. p. 3153; Gaz. vol. 159; p. 550.
Draftsman's table. H. Cots. No. 976,639; Nov. 22; Sp. p. 5643; Gaz. vol. 160; p. 954.
Drag. J. E. Wright. No. 970,155; Sept. 13; Sp. p. 2156; Gaz. vol. 158; p. 367.
Drag and grader, Road. O. F. Phillips and M. H. McCanlon. No. 961,007; June 7; Sp. p. 1547; Gaz. vol. 155; p. 259.
Drag, grader, and scraper, Road. W. S. Walker. No. 970,580; Sept. 20; Sp. p. 3062; Gaz. vol. 158; p. 533.
Drag, Horse-. W. C. Braun. No. 957,185; May 10; Sp. p. 1473; Gaz. vol. 154; p. 263.
Drag, Road-. W. S. Walker. No. 946,925; Jan. 18; Sp. p. 4314; Gaz. vol. 150; p. 708.
Drag, Road-. E. L. Carroll and R. M. Skiles. No. 948,720; Feb. 8; Sp. p. 1998; Gaz. vol. 151; p. 342.
Drag, Road-. J. D. and R. E. Adams. No. 968,912; Aug. 30; Sp. p. 6560; Gaz. vol. 157; p. 1142.
Drag, Road-. F. Boeckmann. No. 971,113; Sept. 27; Sp. p. 4199; Gaz. vol. 158; p. 741.
Drain, Courtyard or area. M. Schnaier. No. 947,778; Jan. 25; Sp. p. 6126; Gaz. vol. 150; p. 1020.
Drain for buildings, Water-. F. S. Bieber. No. 974,631; Nov. 1; Sp. p. 1261; Gaz vol. 160; p 194.
Drain-pipe inlet. W. Hoteling. No. 972,860; Oct. 18; Sp. p. 2941; Gaz. vol. 159; p. 522.
Drain-tile outlet. J. Fitzpatrick. No. 973,022; Oct. 18; Sp. p. 3348; Gaz. vo' 159; p. 580.
Drain trap, Floor-. W. Weiler. No. 976,108; Nov. 15; Sp. p. 4418; Gaz. vol. 160; p. 749.
Drainage connection. A. I. Jones. No. 958,876; May 24; Sp. p. 5380; Gaz. vol. 154; p. 902.
Drainage-plugs, Operating mechanism for. H. J. Geurink. No. 955,456; Apr. 19; Sp. p. 3798; Gaz. vol. 153; p. 667.
Drainage system. C. W. Osborne. No. 963,316; July 5; Sp. p. 708; Gaz. vol. 156; p. 101.
Drainage-tube. G. E. Andrews. No. 954,494; Apr. 12; Sp. p. 1712; Gaz. vol. 153; p. 307.
Drainer for cellars, &c., Automatic. G. Hoffman. No. 973,351; Oct. 18; Sp. p. 4050; Gaz. vol. 159; p. 693.
Draining system, Land-. E. W. Bowslaugh. No. 978,836; Dec. 20; Sp. p. 3039; Gaz. vol. 161; p. 541.
Draping-machine. S. S. Sencenbaugh. No. 959,809; May 31; Sp. p. 7312; Gaz. vol. 154; p. 1238.
Draw-bar. S. W. Beeson. No. 945,079; Jan. 4; Sp. p. 151; Gaz. vol. 150; p. 25.
Draw-bar. J. E. Troup. No. 950,643; Mar. 1; Sp. p. 386; Gaz. vol. 152; p. 62.
Draw-bar splice. J. A. Anderson. No. 950,648; Mar. 1; Sp. p. 395; Gaz. vol. 152; p. 64.
Draw-clamp. H. A. Knoke. No. 946,140; Jan. 11; Sp. p. 2478; Gaz. vol. 150; p. 414.
Draw-cut shears. D. C. Wheeler. No. 953,365; Mar. 29; Sp. p. 6004; Gaz. vol. 152; p. 1080.
Draw-head. G. C. Abbe. No. 969,023; Aug. 30; Sp. p. 6774; Gaz. vol. 157; p. 1180.
Draw-off fitting, Automatic venting and sealing. J. L. Fate. No. 953,027; Mar. 29; Sp. p. 5251; Gaz. vol. 152; p. 968.
Drawer and construction for show and stock cases. E. W. Warsop. No. 968,719; Aug. 30; Sp. p. 6168; Gaz. vol. 157; p. 1078.
Drawer attachment. F. E. Schultz. No. 951,705; Mar. 8; Sp. p. 2502; Gaz. vol. 152; p. 435.
Drawer, Cabinet-. A. T. Weiss. No. 958,203; May 17; Sp. p. 3817; Gaz. vol. 154; p. 645.
Drawer, Dust-proof. C. C. Brien. No. 952,699; Mar. 22; Sp. p. 4570; Gaz. vol. 152; p. 829.
Drawer for card-catalogues. R. D. Hayes. No. 965,517; July 26; Sp. p. 5449; Gaz. vol. 156; p. 929.
Drawer, Furniture-. T. C. Prouty. No. 948,378; Feb. 8; Sp. p. 1263; Gaz. vol. 151; p. 227.
Drawer-guide. A. Elmborg. No. 962,502; June 28; Sp. p. 4782; Gaz. vol. 155; p. 842.
Drawer-guide. S. L. Redwine. No. 972,246; Oct. 11; Sp. p. 1612; Gaz. vol. 159; p. 283.
Drawer-handle. E. W. Bassick and C. F. Mosman. No. 946,317; Jan. 11; Sp. p. 2879; Gaz. vol. 150; p. 477.
Drawer-locking device. J. Bodenstein. No. 950,813; Mar. 1; Sp. p. 756; Gaz. vol. 152; p. 121.
Drawer-pull. S. R. Cartledge. No. 955,760; Apr. 19; Sp. p. 4469; Gaz. vol. 153; p. 771.
Drawer registering and locking device, Cash-. W. H. Stepanek. No. 950,147; Feb. 22; Sp. p. 5021; Gaz. vol. 151; p. 883.
Drawer-support, Extension. W. D. Patterson. No. 946,151; Jan. 11; Sp. p. 2505; Gaz. vol. 150; p. 418.
Drawers, Knee-. W. D. Richey. No. 948,771; Feb. 8; Sp. p. 2115; Gaz. vol. 151; p. 359.
Drawers-supporter. A. E. Shuster. No. 977,754; Dec. 6; Sp. p. 732; Gaz. vol. 161; p. 115.
Drawers, Supporting and guiding device for furniture-. W. F. Wagner. No. 977,349; Nov. 29; Sp. p. 7197; Gaz. vol. 160; p. 1224.
Drawing-board. C. C. Hastings. No. 963,438; July 5; Sp. p. 957; Gaz. vol. 156; p. 143.
Drawing-board. G. B. Lambert. No. 969,638; Sept. 6; Sp. p. 1038; Gaz. vol. 158; p. 166.
Drawing-board adjustable support. A. Hoffman. No. 979,070; Dec. 20; Sp. p. 3560; Gaz. vol. 161; p. 623.
Drawing-board attachment. A. H. Maranda. No. 962,776; June 28; Sp. p. 5360; Gaz. vol. 155; p. 936.
Drawing-board attachment. J. W. Wells. No. 976,019; Nov. 15; Sp. p. 4233; Gaz. vol. 160; p. 717.
Drawing circles, Instrument for. J. H. McMurray. No. 951,255; Mar. 8; Sp. p. 1596; Gaz. vol. 152; p. 285.
Drawing instrument, Curve-. L. F. Robinson. No. 974,190; Nov. 1; Sp. p. 195; Gaz. vol. 160; p. 33.
Drawing instrument, Mathematical. V. M. Spunar. No. 954,476; Apr. 12; Sp. p. 1666; Gaz. vol. 153; p. 301.
Drawing-off rolls. J. R. Milson. No. 953,345; Mar. 29; Sp. p. 5953; Gaz. vol. 152; p. 1073.
Drawing-press. W. Klocke. No. 945,550; Jan. 4; Sp. p. 1182; Gaz. vol. 150; p. 182.
Drawing-press. W. Klocke. No. 955,173; Apr. 19; Sp. p. 3182; Gaz. vol. 153; p. 571.
Drawing-press. W. Klocke. No. 967,022; Aug. 9; Sp. p. 2571; Gaz. vol. 157; p. 422.
Drawing-rack. W. R. Willis, Jr. No. 956,013; Apr. 26; Sp. p. 5031; Gaz. vol. 153; p. 889.
Drawing-roll. J. L. Sexton. No. 949,504; Feb. 15; Sp. p. 3612; Gaz. vol. 151; p. 629.
Drawing-table. J. P. Skripec. No. 953,719; Apr. 5; Sp. p. 70; Gaz. vol. 153; p. 15.
Drawing-table, Adjustable. A. Hoffman. No. 956,096; Apr. 26; Sp. p. 5220; Gaz. vol. 153; p. 918.
Drawing-table, Adjustable. G. A. Schnorr. No. 971,081; Sept. 27; Sp. p. 4146; Gaz. vol. 158; p. 731.
Dredge. W. F. Howe. No. 968,356; Aug. 23; Sp. p. 5368; Gaz. vol. 157; p. 926.
Dredge. W. F. Howe. No. 973,866; Oct. 25; Sp. p. 5142; Gaz. vol. 159; p. 894.
Dredge and conveyer, Combination. F. P. Eastman. No. 967,741; Aug. 16; Sp. p. 4051; Gaz. vol. 157; p. 694.
Dredge-bucket. W. J. Moore. No. 964,042; July 12; Sp. p. 2237; Gaz. vol. 156; p. 369.
Dredge cutter-head, Hydraulic-. W. T. Weaver. No. 962,540; June 28; Sp. p. 4862; Gaz. vol. 155; p. 855.
Dredge cutter, Hydraulic-. A. W. Robinson. No. 977,901; Dec. 6; Sp. p. 1048; Gaz. vol. 161; p. 166.
Dredge, Hydraulic. W. F. Hunter. No. 974,150; Nov. 1; Sp. p. 85; Gaz. vol. 160; p. 17.
Dredge, Sectional. G. E. Turner. No. 973,591; Oct. 25; Sp. p. 4564; Gaz. vol. 159; p. 796.
Dredger. T. Barnett. No. 978,540; Dec. 13; Sp. p. 2420; Gaz. vol. 161; p. 417.
Dredger-bucket. C. M. Hickey. No. 975,239; Nov. 8; Sp. p. 2635; Gaz. vol. 160; p. 425.
Dredging and other similar purposes, Submarine device for. W. G. Fitzgerald and J. G. Flood. No. 958,615; May 17; Sp. p. 4786; Gaz. vol. 154; p. 786.
Dredging apparatus. J. Ostervold. No. 947,624; Jan. 25; Sp. p. 5849; Gaz. vol. 150; p. 971.
Dredging apparatus. W. R. Comfort. No. 948,722; Feb. 8; Sp. p. 2000; Gaz. vol. 151; p. 342.
Dredging apparatus. W. R. Comfort. No. 959,115; May 24; Sp. p. 5857; Gaz. vol. 154; p. 982.
Dredging apparatus. J. J. Connell. No. 963,034; July 5; Sp. p. 13; Gaz. vol. 156; p. 4.
Dredging-machine. N. B. Broward. No. 951,360; Mar. 8; Sp. p. 1828; Gaz. vol. 152; p. 320.
Dredging-machine, Universal. T. F. Lonney. No. 969,171; Sept. 6; Sp. p. 45; Gaz. vol. 158; p. 10.
Dredging, Pontoon-pipe for marine. D. B. Richards and C. F. Loga. No. 975,999; Nov. 15; Sp. p. 4194; Gaz. vol. 160; p. 711.
Dredging-scoop. T. S. Barwis. No. 956,269; Apr. 26; Sp. p. 5608; Gaz. vol. 153; p. 978.
Dredging-sleeve. W. P. Sugg. No. 947,046; Jan. 18; Sp. p. 4535; Gaz. vol. 150; p. 748.
Drenching device. T. N. Jones. No. 969,482; Sept. 6; Sp. p. 697; Gaz. vol. 158; p. 110.
Dress-shield. N. C. Nevin. No. 946,766; Jan. 18; Sp. p. 3915; Gaz. vol. 150; p. 653.
Dress-shield. H. R. Hinckley. No. 947,698; Jan. 25; Sp. p. 5976; Gaz. vol. 150; p. 995.
Dress-suit rack. S. B. Weaver. No. 973,090; Oct. 18; Sp. p. 3483; Gaz. vol. 159; p. 601.
Dressing-sack, Lady's. L. Nathan. No. 947,598; Jan. 25; Sp. p. 5789; Gaz. vol. 150; p. 962.
Dressmaker's fitting-stand. B. J. Buckingham. No. 963,355; July 5; Sp. p. 785; Gaz. vol. 156; p. 115.
Drier; *See* Brick-drier; Clothes-drier; Cylinder-drier; Grain-drier; Hose-drier; Lumber and veneer drier; Rotary drier; Sand-drier.
Drier. M. Whitlatch. No. 948,751; Feb. 8; Sp. p. 2059; Gaz. vol. 151; p. 352.
Drier. W. R. Macklind. No. 949,487; Feb. 15; Sp. p. 3579; Gaz. vol. 151; p. 624.
Drier. C. B. Stilwell. No. 949,855; Feb. 22; Sp. p. 4357; Gaz. vol. 151; p. 782.
Drier. W. Robertson. No. 950,603; Mar. 1; Sp. p. 293; Gaz. vol. 152; p. 48.
Drier. M. Whitlatch. No. 952,775; Mar. 22; Sp. p. 4747; Gaz. vol. 152; p. 855.

Alphabetical list of inventions—Continued.

Drier. F. R. Willson, Jr. No. 953,653; Mar. 29; Sp. p. 6612; Gaz. vol. 152; p. 1180.
Drier. G. R. Ruffin. No. 966,862; Aug. 9; Sp. p. 2233; Gaz. vol. 157; p. 367.
Drier or oven. J. Koller. No. 954,743; Apr. 12; Sp. p. 2272; Gaz. vol. 153; p. 394.
Dry cell. A. N. Barron and W. G. Waitt. No. 969,512; Sept. 6; Sp. p. 761; Gaz. vol. 158; p. 120.
Dry closet. F. P. Smith. No. 949,917; Feb. 22; Sp. p. 4510; Gaz. vol. 151; p. 805.
Dry-kiln. J. R. Ripley. No. 978,209; Dec. 13; Sp. p. 1719; Gaz. vol. 161; p. 302.
Dry-kiln. C. H. Dingman. No. 978,991; Dec. 20; Sp. p. 3396; Gaz. vol. 161; p. 597.
Dry meter. S. Simpson. No. 953,864; Apr. 5; Sp. p. 364; Gaz. vol. 153; p. 65.
Dry-pan. R. C. Penfield. No. 974,179; Nov. 1; Sp. p. 152; Gaz. vol. 160; p. 28.
Dry-pan. R. C. Penfield. No. 974,180; Nov. 1; Sp. p. 155; Gaz. vol. 160; p. 28.
Dry-pan. R. C. Penfield. No. 974,816; Nov. 8; Sp. p. 1665; Gaz. vol. 160; p. 279.
Dry-pan. R. C. Penfield. No. 974,817; Nov. 8; Sp. p. 1668; Gaz. vol. 160; p. 280.
Dry-pan. R. C. Penfield. No. 974,818; Nov. 8; Sp. p. 1673; Gaz. vol. 160; p. 280.
Dry separator. A. W. Ringland. No. 968,984; Aug. 30; Sp. p. 6695; Gaz. vol. 157; p. 1166.
Drying and charring materials, Apparatus for. N. K. H. Ekelund. No. 951,804; Mar. 15; Sp. p. 2734; Gaz. vol. 152; p. 499.
Drying and condensing apparatus. R. W. Amos. No. 965,058; July 19; Sp. p. 4466; Gaz. vol. 156; p. 743.
Drying and mixing device. H. M. Kingsley. No. 946,699; Jan. 18; Sp. p. 3764; Gaz. vol. 150; p. 630.
Drying apparatus. D. Hurley and J. E. O'Shea. No. 946,843; Jan. 18; Sp. p. 4111; Gaz. vol. 150; p. 680.
Drying apparatus. D. Diver. No. 948,477; Feb. 8; Sp. p. 1467; Gaz. vol. 151; p. 260.
Drying apparatus. J. H. Duncan. No. 951,559; Mar. 8; Sp. p. 2231; Gaz. vol. 152; p. 387.
Drying apparatus. W. H. Bradley. No. 962,118; June 21; Sp. p. 3938; Gaz. vol. 155; p. 686.
Drying apparatus. P. M. Velilla. No. 964,342; July 12; Sp. p. 2846; Gaz. vol. 156; p. 469.
Drying apparatus. E. Löwi. No. 967,027; Aug. 9; Sp. p. 2582; Gaz. vol. 157; p. 424.
Drying apparatus. S. Wiebe. No. 977,244; Nov. 29; Sp. p. 6994; Gaz. vol. 160; p. 1189.
Drying apparatus. G. H. May and W. M. Grosvenor. No. 979,781; Dec. 27; Sp. p. 5107; Gaz. vol. 161; p. 889.
Drying apparatus, Electrical. G. W. Richardson. No. 963,942; July 12; Sp. p. 2023; Gaz. vol. 156; p. 333.
Drying articles of jewelry, &c., Means for. A. W. Hutchins. No. 948,763; Feb. 8; Sp. p. 2100; Gaz. vol. 151; p. 356.
Drying can or cylinder. R. Pritchard. No. 967,434; Aug. 16; Sp. p. 3422; Gaz. vol. 157; p. 930.
Drying frame, Hosiery-. F. Pope and J. Rogginger. No. 961,644; June 14; Sp. p. 2900; Gaz. vol. 155; p. 502.
Drying goods. L. von Süsskind. No. 965,251; July 26; Sp. p. 4852; Gaz. vol. 156; p. 838.
Drying jewelry, &c., Means adapted for. A. W. Hutchins. No. 949,930; Feb. 22; Sp. p. 4531; Gaz. vol. 151; p. 809.
Drying-machine. J. P. Marshall. No. 956,122; Apr. 26; Sp. p. 5277; Gaz. vol. 153; p. 927.
Drying-machine. G. A. Cutter. No. 959,722; May 31; Sp. p. 7117; Gaz. vol. 154; p. 1208.
Drying-machine. A. M. Schreuder. No. 962,865; June 28; Sp. p. 5536; Gaz. vol. 155; p. 968.
Drying-machine. T. F. Dexter. No. 971,176; Sept. 27; Sp. p. 4347; Gaz. vol. 158; p. 762.
Drying-machine. T. F. Dexter. No. 971,177; Sept. 27; Sp. p. 4349; Gaz. vol. 158; p. 762.
Drying-machine, Centrifugal. W. C. Mitchell. No. 966,573; Aug. 9; Sp. p. 1597; Gaz. vol. 157; p. 272.
Drying-machine motor, Centrifugal-. J. W. and W. A. Macfarlane. No. 959,567; May 31; Sp. p. 6808; Gaz. vol. 154; p. 1158.
Drying or condensing apparatus. M. Töpfer. No. 953,807; Apr. 5; Sp. p. 253; Gaz. vol. 153; p. 45.
Drying proofed and like fabrics or material, Apparatus for. J. Spenlé. No. 967,076; Aug. 9; Sp. p. 2685; Gaz. vol. 157; p. 440.
Drying-reel for clothes, &c. S. T. Waggoner and T. T. Heard. No. 975,660; Nov. 15; Sp. p. 3529; Gaz. vol. 160; p. 595.
Drying-roll. J. A. Lamp and S. C. Stiner. No. 977,410; Nov. 29; Sp. p. 7358; Gaz. vol. 160; p. 1245.
Drying textile and other materials, Apparatus for. A. Boleg. No. 958,469; May 17; Sp. p. 4507; Gaz. vol. 154; p. 738.
Drying textile yarns, fabrics, and other materials, Apparatus for. P. Turlur. No. 951,859; Mar. 15; Sp. p. 2847; Gaz. vol. 152; p. 518.
Drying wet material, Process and apparatus for. W. Bratkowski. No. 969,031; Aug. 30; Sp. p. 6787; Gaz. vol. 157; p. 1183.
Drift-bolt puller. J. A. King. No. 957,565; May 10; Sp. p. 2276; Gaz. vol. 154; p. 394.
Drill: *See* Boring-drill; Disk drill; Double-acting self-folding drill; Earth-drill; Electric drill; Electromagnetic drill; Force-drill; Grain-drill; Hammer-drill; Hand-drill; Manure-drill; Miner's drill; Mining-drill; Pneumatic drill; Power-drill; Power-operated drill; Radial drill; Railway-track drill; Ratchet-drill; Rock-drill; Roller-drill; Stay-bolt drill; Track-drill; Twist-drill.
Drill. J. P. Tye. No. 954,230; Apr. 5; Sp. p. 1146; Gaz. vol. 153; p. 191.
Drill. A. Godlewski. No. 959,055; May 24; Sp. p. 5722; Gaz. vol. 154; p. 961.
Drill. L. Waters. No. 962,994; June 28; Sp. p. 5770; Gaz. vol. 155; p. 1010.
Drill. C. H. Oslund. No. 963,317; July 5; Sp. p. 709; Gaz. vol. 156; p. 102.
Drill. C. Seals. No. 970,401; Sept. 13; Sp. p. 2665; Gaz. vol. 158; p. 450.
Drill. J. R. Weston. No. 972,666; Oct. 11; Sp. p. 2520; Gaz. vol. 159; p. 429.
Drill. F. E. Farley. No. 973,489; Oct. 25; Sp. p. 4362; Gaz. vol. 159; p. 763.
Drill and drill-shank. M. Hardsocg. No. 968,472; Aug. 23; Sp. p. 5596; Gaz. vol. 157; p. 966.
Drill and valve-grinder, Combination. F. C. Blanchard. No. 963,986; July 12; Sp. p. 2130; Gaz. vol. 156; p. 348.
Drill attachment. R. A. Brown and J. Pittings. No. 977,267; Nov. 29; Sp. p. 7035; Gaz. vol. 160; p. 1196.
Drill-brace. C. Warmholtz. No. 959,824; May 31; Sp. p. 7339; Gaz. vol. 154; p. 1244.
Drill-brace. J. S. Glenn. No. 971,037; Sept. 27; Sp. p. 4047; Gaz. vol. 158; p. 717.
Drill coupling, Rotary-. L. Massa. No. 949,300; Feb. 15; Sp. p. 3185; Gaz. vol. 151; p. 561.
Drill-cuttings, Means for collecting. M. L. Sargent. No. 956,181; Apr. 26; Sp. p. 5424; Gaz. vol. 153; p. 949.
Drill-cylinders, Front head for. G. S. Power. No. 974,823; Nov. 8; Sp. p. 1680; Gaz. vol. 160; p. 282.
Drill dust-catcher. M. Stuckel. No. 972,035; Oct. 4; Sp. p. 1154; Gaz. vol. 159; p. 193.
Drill-feed. W. H. Greene. No. 975,031; Nov. 8; Sp. p. 2174; Gaz. vol. 160; p. 354.
Drill-feeding mechanism. D. S. Waugh. No. 969,319; Sept. 6; Sp. p. 349; Gaz. vol. 158; p. 58.
Drill gage-plate. E. Seavey. No. 973,078; Oct. 18; Sp. p. 3448; Gaz. vol. 159; p. 597.
Drill handle, Pneumatic-. A. Levedahl. No. 972,548; Oct. 11; Sp. p. 2252; Gaz. vol. 159; p. 389.
Drill-head. J. F. Munn. No. 947,394; Jan. 25; Sp. p. 5313; Gaz. vol. 150; p. 893.
Drill-holder. J. W. Wells. No. 969,228; Sept. 6; Sp. p. 184; Gaz. vol. 158; p. 30.
Drill-hole-testing apparatus. M. Garvey. No. 965,808; July 26; Sp. p. 6076; Gaz. vol. 156; p. 1030.
Drill machine, Twist-. A. D. Wilt, Jr. No. 978,097; Dec. 6; Sp. p. 1451; Gaz. vol. 161; p. 234.
Drill-mounting. C. C. Hansen. No. 949,427; Feb. 15; Sp. p. 3470; Gaz. vol. 151; p. 606.
Drill-mounting. C. C. Hansen. No. 956,850; May 3; Sp. p. 767; Gaz. vol. 154; p. 121.
Drill-mounting. C. C. Hansen. No. 977,734; Dec. 6; Sp. p. 693; Gaz. vol. 161; p. 108.
Drill-press and boring-machine, Combined. J. T. Sherod. No. 962,474; June 28; Sp. p. 4720; Gaz. vol. 155; p. 832.
Drill-press table. L. Smith. No. 973,142; Oct. 18; Sp. p. 3600; Gaz. vol. 159; p. 621.
Drill-room floor. R. R. Bradley. No. 965,366; July 26; Sp. p. 5113; Gaz. vol. 156; p. 877.
Drill-shaping machine. F. M. Tucker. No. 974,211; Nov. 1; Sp. p. 245; Gaz. vol. 160; p. 40.
Drill-socket. F. Maier. No. 955,650; Apr. 19; Sp. p. 4234; Gaz. vol. 153; p. 734.
Drill socket, Twist-. C. G. Brown. No. 972,155; Oct. 11; Sp. p. 1406; Gaz. vol. 159; p. 252.
Drill-spindle driving mechanism. H. Allen. No. 962,690; June 28; Sp. p. 5183; Gaz. vol. 155; p. 905.
Drills, &c., Adjustable holder for. F. E. Bocorselski. No. 945,368; Jan. 4; Sp. p. 793; Gaz. vol. 150; p. 122.
Drills, Adjustable post for ratchet-. C. B. Hastings. No. 980,100; Dec. 27; Sp. p. 5802; Gaz. vol. 161; p. 995.
Drills, Air-feed for. M. Hardsocg. No. 966,911; Aug. 9; Sp. p. 2335; Gaz. vol. 157; p. 383.
Drills and the like, Automatic reversing mechanism for. H. G. Barr. No. 961,334; June 14; Sp. p. 2261; Gaz. vol. 155; p. 399.
Drills, Forming twist-. A. Ward. No. 950,645; Mar. 1; Sp. p. 390; Gaz. vol. 152; p. 63.
Drills, Hoe attachment for. T. J. Boozer. No. 970,298; Sept. 13; Sp. p. 2476; Gaz. vol. 158; p. 417.
Drills, Making twist-. E. C. Peck. No. 968,400; Aug. 23; Sp. p. 5458; Gaz. vol. 157; p. 941.
Drills, Means for forming twist-. A. Ward. No. 950,646; Mar. 1; Sp. p. 391; Gaz. vol. 152; p. 63.
Drills, Scraper device for disk. O. G. Rieske, T. Brennan, Jr., S. H. Phelps, and E. R. Beeman. No. 975,459; Nov. 15; Sp. p. 3080; Gaz. vol. 160; p. 526.
Drills, Tool-dropping apparatus for. H. Kirk. No. 977,409; Nov. 29; Sp. p. 7357; Gaz. vol. 160; p. 1244.
Drilling apparatus. J. J. Hennessy and E. A. Capocefalo. No. 974,267; Nov. 1; Sp. p. 419; Gaz. vol. 160; p. 62.

Drilling attachment, Cross-. O. A. Smith. No. 973,716; Oct. 25; Sp. p. 4843; Gaz. vol. 159; p. 841.
Drilling, boring, and similar machines, Attachment for. F. A. Kirby. No. 971,679; Oct. 4; Sp. p. 356; Gaz. vol. 159; p. 62.
Drilling device, Ratchet. A. P. Johnsen. No. 971,755; Oct. 4; Sp. p. 517; Gaz. vol. 159; p. 90.
Drilling-machine. J. P. Barnes. No. 948,472; Feb. 8; Sp. p. 1453; Gaz. vol. 151; p. 258.
Drilling-machine. J. S. Barnes and J. R. Vincer. No. 948,582; Feb. 8; Sp. p. 1689; Gaz. vol. 151; p. 295.
Drilling-machine. W. F. Barnes. No. 948,584; Feb. 8; Sp. p. 1701; Gaz. vol. 151; p. 296.
Drilling-machine. W. L. Smith. No. 950,193; Feb. 22; Sp. p. 5127; Gaz. vol. 151; p. 900.
Drilling-machine. R. L. Wilcox. No. 951,296; Mar. 8; Sp. p. 1688; Gaz. vol. 152; p. 299.
Drilling-machine. G. McKnight. No. 953,486; Mar. 29; Sp. p. 6258; Gaz. vol. 152; p. 1122.
Drilling-machine. J. S. Barnes and J. R. Vincer. No. 958,604; May 17; Sp. p. 4764; Gaz. vol. 154; p. 782.
Drilling-machine. N. D. Levin. No. 958,814; May 24; Sp. p. 5215; Gaz. vol. 154; p. 880.
Drilling-machine. H. J. Harvey. No. 959,007; May 24; Sp. p. 5629; Gaz. vol. 154; p. 946.
Drilling-machine. C. B. Richards. No. 966,600; Aug. 9; Sp. p. 1650; Gaz. vol. 157; p. 281.
Drilling-machine. J. S. Barnes. No. 973,843; Oct. 25; Sp. p. 5097; Gaz. vol. 159; p. 885.
Drilling-machine. J. W. Lundgren. No. 974,406; Nov. 1; Sp. p. 733; Gaz. vol. 160; p. 111.
Drilling-machine. A. G. and E. G. Seberg. No. 976,703; Nov. 22; Sp. p. 5755; Gaz. vol. 160; p. 975.
Drilling-machine. H. B. Keiper. No. 979,073; Dec. 20; Sp. p. 3565; Gaz. vol. 161; p. 624.
Drilling-machine. T. Hargie. No. 979,161; Dec. 20; Sp. p. 3800; Gaz. vol. 161; p. 658.
Drilling-machine and drill. V. J. Wahlstrom. No. 970,670; Sept. 20; Sp. p. 3275; Gaz. vol. 158; p. 564.
Drilling-machine, Automatic. F. H. Pierpont. No. 962,464; June 28; Sp. p. 4697; Gaz. vol. 155; p. 828.
Drilling-machine front head. G. Kemmerling. No. 960,557; June 7; Sp. p. 653; Gaz. vol. 155; p. 106.
Drilling-machine gearing. J. S. Barnes and J. R. Vincer. No. 979,918; Dec. 27; Sp. p. 5413; Gaz. vol. 161; p. 936.
Drilling-machine guide. J. A. Ferries. No. 979,273; Dec. 20; Sp. p. 4042; Gaz. vol. 161; p. 695.
Drilling machine, Multiple-. O. A. Smith. No. 975,729; Nov. 15; Sp. p. 3661; Gaz. vol. 160; p. 617.
Drilling mechanism. W. F. Wittich. No. 969,233; Sept. 6; Sp. p. 191; Gaz. vol. 158; p. 31.
Drilling-rig. A. C. Zierath. No. 967,481; Aug. 16; Sp. p. 3528; Gaz. vol. 157; p. 606.
Drink-shaker. J. Heinrichs. No. 950,288; Feb. 22; Sp. p. 5326; Gaz. vol. 151; p. 933.
Drinking appliance, Sanitary. R. E. Hooper. No. 978,295; Dec. 13; Sp. p. 1908; Gaz. vol. 161; p. 334.
Drinking-cup. A. R. Hussey. No. 952,197; Mar. 15; Sp. p. 3489; Gaz. vol. 152; p. 628.
Drinking-cup. M. M. Billingsly. No. 960,619; June 7; Sp. p. 786; Gaz. vol. 155; p. 128.
Drinking-cup. R. A. Hoar. No. 963,894; July 12; Sp. p. 1936; Gaz. vol. 156; p. 318.
Drinking-cup. A. G. Sheak. No. 972,932; Oct. 18; Sp. p. 3142; Gaz. vol. 159; p. 549.
Drinking-cup, Aseptic. J. G. Sharon. No. 952,365; Mar. 15; Sp. p. 3835; Gaz. vol. 152; p. 686.
Drinking-cup, Collapsible. M. Sholl. No. 957,264; May 10; Sp. p. 1662; Gaz. vol. 154; p. 292.
Drinking-fountain. B. Kaminsky. No. 955,966; Apr. 26; Sp. p. 4938; Gaz. vol. 153; p. 873.
Drinking-fountain. J. M. Kaminsky. No. 976,372; Nov. 22; Sp. p. 5069; Gaz. vol. 160; p. 861.
Drinking-fountain and other plumbing-fixture. P. J. Madden. No. 978,913; Dec. 20; Sp. p. 3198; Gaz. vol. 161; p. 568.
Drinking-fountain, Bubbling. S. C. Keith, Jr. No. 973,790; Oct. 25; Sp. p. 4984; Gaz. vol. 159; p. 866.
Drinking-fountain, Sanitary. J. Goebel. No. 970,213; Sept. 13; Sp. p. 2310; Gaz. vol. 158; p. 388.
Drinking vessel. J. H. Landwehr. No. 954,978; Apr. 12; Sp. p. 2808; Gaz. vol. 153; p. 475.
Drinking vessel, Prophylactic. J. L. Sowell. No. 957,267; May 10; Sp. p. 1668; Gaz. vol. 154; p. 293.
Drinking vessels, Sanitary cleansing and indicating device for. C. W. Thornton. No. 959,970; May 31; Sp. p. 7684; Gaz. vol. 154; p. 1295.
Drip-pan. F. J. Cameron. No. 973,474; Oct. 25; Sp. p. 4321; Gaz. vol. 159; p. 758.
Drive gear-wheel. J. E. Jones. No. 963,153; July 5; Sp. p. 326; Gaz. vol. 156; p. 46.
Drive mechanism. L. A. Hill. No. 963,557; July 5; Sp. p. 1189; Gaz. vol. 156; p. 183.
Drive-wheel. G. T. Strite. No. 953,356; Mar. 29; Sp. p. 5981; Gaz. vol. 152; p. 1076.
Driving and steering means. A. K. Baltezor. No. 974,625; Nov. 1; Sp. p. 1249; Gaz. vol. 160; p. 192.
Driving-box attachment. C. Markel. No. 966,344; Aug. 2; Sp. p. 1033; Gaz. vol. 157; p. 167.
Driving connection, Flexible. S. M. Vauclain. No. 957,279; May 10; Sp. p. 1697; Gaz. vol. 154; p. 297.
Driving-gear. J. M. Sailer. No. 952,143; Mar. 15; Sp. p. 3400; Gaz. vol. 152; p. 612.
Driving-gear, Chain. R. H. Bowman. No. 951,721; Mar. 8; Sp. p. 2527; Gaz. vol. 152; p. 440.
Driving-gear, Differential. L. E. Hoffman. (Reissue.) No. 13,068; Jan. 4; Sp. p. 1589; Gaz. vol. 150; p. 245.
Driving-gear mechanism. A. W. Wigglesworth. No. 972,587; Oct. 11; Sp. p. 2353; Gaz. vol. 159; p. 402.
Driving mechanism. H. L. Johnston. No. 950,635; Mar. 1; Sp. p. 365; Gaz. vol. 152; p. 59.
Driving mechanism. C. W. Willette. No. 956,658; May 3; Sp. p. 328; Gaz. vol. 154; p. 54.
Driving mechanism. W. A. McKinney. No. 956,721; May 3; Sp. p. 475; Gaz. vol. 154; p. 76.
Driving mechanism. J. Duitch. No. 971,364; Sept. 27; Sp. p. 4713; Gaz. vol. 158; p. 823.
Driving mechanism. J. Becker. No. 976,622; Nov. 22; Sp. p. 5606; Gaz. vol. 160; p. 948.
Driving mechanism. A. E. H. J. Thoellden. No. 979,223; Dec. 20; Sp. p. 3937; Gaz. vol. 161; p. 679.
Driving mechanism. C. W. Crawford. No. 979,441; Dec. 27; Sp. p. 4366; Gaz. vol. 161; p. 773.
Driving mechanism, Automatic. E. S. Ensign. No. 953,991; Apr. 5; Sp. p. 615; Gaz. vol. 153; p. 109.
Driving mechanism, Friction. J. W. Lambert. No. 954,977; Apr. 12; Sp. p. 2806; Gaz. vol. 153; p. 475.
Driving mechanism, Friction. R. Norris. No. 976,281; Nov. 22; Sp. p. 4872; Gaz. vol. 160; p. 832.
Driving mechanism, Pattern-drum-actuated. M. F. Field, C. D. Lanning, E. F. Hathaway, and F. C. Blanchard. No. 980,086; Dec. 27; Sp. p. 5772; Gaz. vol. 161; p. 990.
Driving mechanism, Separable locking-rack for. B. F. Brewster. No. 974,022; Oct. 25; Sp. p. 5471; Gaz. vol. 159; p. 948.
Driving mechanism, Variable-speed. J. J. Walser. No. 967,470; Aug. 16; Sp. p. 3487; Gaz. vol. 157; p. 601.
Driving mechanism, Variable-speed. R. Stockbridge. No. 979,589; Dec. 27; Sp. p. 4695; Gaz. vol. 161; p. 824.
Drop-box, Coin-operated. S. J. Kelly. No. 976,884; Nov. 29; Sp. p. 6172; Gaz. vol. 160; p. 1063.
Drop-feed lubricator. F. Lowry. No. 946,450; Jan. 11; Sp. p. 3250; Gaz. vol. 150; p. 523.
Drop-light attachment, Adjustable. F. K. Bartholomew. No. 947,709; Jan. 25; Sp. p. 5996; Gaz. vol. 150; p. 999.
Drop-siding and matched material, Apparatus for laying. J. E. Norby. No. 958,671; May 17; Sp. p. 4892; Gaz. vol. 154; p. 803.
Dropper: *See* Can-cap dropper; Corn-dropper; Medicine-dropper; Mercury-dropper.
Dropper. T. A. De Vilbiss. No. 959,847; May 31; Sp. p. 7392; Gaz. vol. 154; p. 1252.
Dropping mechanism, Differential. F. P. Murphey. No. 960,187; May 31; Sp. p. 8136; Gaz. vol. 154; p. 1369.
Dross-furnace. G. L. Walker. No. 949,311; Feb. 15; Sp. p. 3202; Gaz. vol. 151; p. 565.
Drum. G. W. Du Lany. No. 974,647; Nov. 1; Sp. p. 1300; Gaz. vol. 160; p. 200.
Drum and parts thereof, Centrifugal. A. G. G. Salenius. No. 963,073; July 5; Sp. p. 94; Gaz. vol. 156; p. 17.
Drum, Collapsible. F. E. Thompson. No. 961,556; June 14; Sp. p. 2721; Gaz. vol. 155; p. 472.
Drum, Crimping-. G. E. Mirfield. No. 963,616; July 5; Sp. p. 1315; Gaz. vol. 156; p. 202.
Drum, Friction-. A. A. Schroeder. No. 946,988; Jan. 18; Sp. p. 4428; Gaz. vol. 150; p. 729.
Drum, Friction-. J. V. Beekman. No. 976,841; Nov. 29; Sp. p. 6073; Gaz. vol. 160; p. 1047.
Drum, Heating-. J. H. Bicksler. No. 964,082; July 12; Sp. p. 2326; Gaz. vol. 156; p. 382.
Drum, Heating. P. Arnold. No. 966,293; Aug. 2; Sp. p. 951; Gaz. vol. 157; p. 151.
Drum, Heating-. M. Mahlen. No. 977,666; Dec. 6; Sp. p. 557; Gaz. vol. 161; p. 85.
Drum muffler, Snare-. M. Waechtler. No. 948,195; Feb. 1; Sp. p. 845; Gaz. vol. 151; p. 139.
Drum, Stovepipe-. J. B. Pasche. No. 979,400; Dec. 20; Sp. p. 4276; Gaz. vol. 161; p. 735.
Drum-tightener. H. H. Carney. No. 967,726; Aug. 16; Sp. p. 4014; Gaz. vol. 157; p. 688.
Drum, Winch-. C. H. Brainard. No. 978,353; Dec. 13; Sp. p. 2025; Gaz. vol. 161; p. 353.
Drum with loading and discharging apparatus. A. J. Dinkel. 967,345; Aug. 16; Sp. p. 3231; Gaz. vol. 157; p. 560.
Drums, Method of and means for supporting rotary. A. B. Helbig. No. 974,964; Nov. 8; Sp. p. 2023; Gaz. vol. 160; p. 331.
Drums, Safety-vent for expansion-. G. E. Hulse. No. 963,045; July 5; Sp. p. 33; Gaz. vol. 156; p. 8.
Drumhead-tightener. E. M. Yates. No. 955,736; Apr. 19; Sp. p. 4426; Gaz. vol. 153; p. 763.
Drumhead-tightener. I. H. Sapp. No. 966,477; Aug. 9; Sp. p. 1342; Gaz. vol. 157; p. 238.
Drumhead-tightener. F. Holton. No. 973,661; Oct. 25; Sp. p. 4735; Gaz. vol. 159; p. 822.
Dumb-bell. H. W. Titus. No. 980,025; Dec. 27; Sp. p. 5619; Gaz. vol. 161; p. 972.
Dumb-bells, Spring-grip attachment for. W. J. Dossetter. No. 965,284; July 26; Sp. p. 4923; Gaz. vol. 156; p. 849.
Dumb-waiter. W. B. Updegraff. No. 957,015; May 3; Sp. p. 1121; Gaz. vol. 154; p. 176.

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Dumb-waiter. C. H. Gray. No. 969,269; Sept. 6; Sp. p. 251; Gaz. vol. 158; p. 41.
Dumb-waiter and elevator. H. A. Smith. No. 950,828; Mar. 1; Sp. p. 789; Gaz. vol. 152; p. 126.
Dumb-waiter apparatus. G. W. Emrick. No. 965,997; Aug. 2; Sp. p. 331; Gaz. vol. 157; p. 54.
Dumb-waiter or lift. S. McCamey and W. J. Zimmerman. No. 945,794; Jan. 11; Sp. p. 1745; Gaz. vol. 150; p. 293.
Dump-carrier. W. J. Nummedahl. No. 952,936; Mar. 22; Sp. p. 5063; Gaz. vol. 152; p. 910.
Dump, Crossover-. O. V. Greene. No. 964,965; July 19; Sp. p. 4274; Gaz. vol. 156; p. 713.
Dumping apparatus. G. A. Lackey. No. 978,599; Dec. 13; Sp. p. 2572; Gaz. vol. 161; p. 439.
Dumping apparatus for pipe machinery and the like, Automatic. W. E. Sanford. No. 950,729; Mar. 1; Sp. p. 582; Gaz. vol. 152; p. 91.
Dumping mechanism. M. A. Young. No. 952,169; Mar. 15; Sp. p. 3445; Gaz. vol. 152; p. 620.
Duplex two-pole switch. P. Dunning. No. 945,923; Jan. 11; Sp. p. 2046; Gaz. vol. 150; p. 340.
Duplicating-machine. E. R. Lerner and H. L. Bean. No. 949,486; Feb. 15; Sp. p. 3575; Gaz. vol. 151; p. 623.
Duplicating-machine. J. G. Dailey. No. 958,098; May 17; Sp. p. 3607; Gaz. vol. 154; p. 608.
Duplicating-machine stand. A. Hendricks. No. 948,728; Feb. 8; Sp. p. 2012; Gaz. vol. 151; p. 344.
Dust and ash removing devices, Suction-nozzle for. E. Pannenborg. No. 952,840; Mar. 22; Sp p. 4879; Gaz. vol. 152; p. 878.
Dust and draft shield. F. J. Mooney. No. 946,805; Jan. 18; Sp. p. 4023; Gaz. vol. 150; p. 667.
Dust and other materials from dust-laden air and a dust-collector for carrying out said process, Separating. C. F. Verrell. No. 964,717; July 19; Sp. p. 3774; Gaz. vol. 156; p. 628.
Dust and wind guard. W. J. Anson. No. 973,840; Oct. 25; Sp. p. 5090; Gaz. vol. 159; p. 884.
Dust-arrester. J. Hickey. No. 972,534; Oct. 11; Sp. p. 2219; Gaz. vol. 159; p. 384.
Dust-catcher. V. E. Edwards. No. 968,456; Aug. 23; Sp. p. 5562; Gaz. vol. 157; p. 959.
Dust collecting and separating apparatus. C. H. Stubley. No. 975,300; Nov. 8; Sp. p. 2767; Gaz. vol. 160; p. 446.
Dust-collecting apparatus. G. R. Bimm. (Reissue.) No. 13,096; Mar. 22; Sp. p. 5225; Gaz. vol. 152; p. 936.
Dust collection, Apparatus for. O. M. Morse. No. 958,666; May 17; Sp. p. 4883; Gaz. vol. 154; p. 802.
Dust-collector. F. C. Hemmer. No. 948,993; Feb. 15; Sp. p. 2554; Gaz. vol. 151; p. 460.
Dust-collector. G. A. Bauer. No. 956,270; Apr. 26; Sp. p. 5609; Gaz. vol. 153; p. 978.
Dust-collector. H. Hill. No. 959,936; May 31; Sp. p. 7604; Gaz. vol. 154; p. 1283.
Dust-collector. D. J. T. Oldham. No. 960,686; June 7; Sp. p. 912; Gaz. vol. 154; p. 151.
Dust-collector. W. Gyer. No. 962,757; June 28; Sp. p. 5324; Gaz. vol. 155; p. 930.
Dust-collector. A. S. Wolf. No. 963,845; July 12; Sp. p. 1837; Gaz. vol. 156; p. 302.
Dust-collector. V. T. Johnson and C. G. Arvidson. No. 964,428; July 12; Sp. p. 3010; Gaz. vol. 156; p. 496.
Dust-collector. I. Steiner. No. 967,849; Aug. 16; Sp. p. 4260; Gaz. vol. 157; p. 729.
Dust-collector. O. M. Morse. No. 969,074; Aug. 30; Sp. p. 6881; Gaz. vol. 157; p. 1198.
Dust-collector. F. J. Matchette. No. 971,390; Sept. 27; Sp. p. 4760; Gaz. vol. 158; p. 832.
Dust-collector. U. Joedicke. No. 971,895; Oct. 4; Sp. p. 830; Gaz. vol. 159; p. 142.
Dust-collector. M. O. Griswold and T. Briegel. No. 978,739; Dec. 13; Sp. p. 2866; Gaz. vol. 161; p. 485.
Dust-collector. O. M. Morse. No. 979,987; Dec. 27; Sp. p. 5543; Gaz. vol. 161; p. 958.
Dust-collector, Hand-propelled. F. C. De Vallant. No. 965,694; July 26; Sp. p. 5843; Gaz. vol. 156; p. 992.
Dust-collector, Pneumatic. F. C. De Vallant. No. 954,938; Apr. 12; Sp. p. 2726; Gaz. vol. 153; p. 461.
Dust-collector tubes, Machine for cleaning. D. G. Becker. No. 966,420; Aug. 9; Sp. p. 1196; Gaz. vol. 157; p. 218.
Dust-collectors, Tubular guard for. P. C. Miller. No. 970,530; Sept. 20; Sp. p. 2960; Gaz. vol. 158; p. 516.
Dust-guard. L. Y. Williams. No. 956,012; Apr. 26; Sp. p. 5030; Gaz. vol. 153; p. 889.
Dust-guard. L. Y. Williams. No. 973,462; Oct. 18; Sp. p. 4287; Gaz. vol. 159; p. 730.
Dust-guard. L. Y. Williams. No. 973,463; Oct. 18; Sp. p. 4288; Gaz. vol. 159; p. 730.
Dust-pan. W. D. Chamberlain. No. 946,109; Jan. 11; Sp. p. 2420; Gaz. vol. 150; p. 403.
Dust-pan. O. P. Olson. No. 953,756; Apr. 5; Sp. p. 148; Gaz. vol. 153; p. 28.
Dust-pan. F. Hubert. No. 956,968; May 3; Sp. p. 1027; Gaz. vol. 154; p. 161.
Dust-pan. C. W. Koertner. No. 958,255; May 17; Sp. p. 3928; Gaz. vol. 154; p. 661.
Dust-pan. M. Feld and D. Froehlich. No. 959,926; May 31; Sp. p. 7569; Gaz. vol. 154; p. 1279.
Dust-pan. A. Armstrong. No. 961,199; June 14; Sp. p. 1942; Gaz. vol. 155; p. 351.
Dust-pan. J. W. Ivers. No. 961,965; June 21; Sp. p. 3598; Gaz. vol. 155; p. 633.
Dust-pan. F. M. Folsom and E. E. Higgins. No. 978,724; Dec. 13; Sp. p. 2830; Gaz. vol. 161; p. 480.
Dust-pan. T. C. Morris. No. 979,784; Dec. 27; Sp. p. 5121; Gaz. vol. 161; p. 891.
Dust-proof joint. D. E. Hunter. No. 968,850; Aug. 30; Sp. p. 6429; Gaz. vol. 157; p. 1120.
Dust-receptacle. J. S. Thurman. No. 951,624; Mar. 8; Sp. p. 2356; Gaz. vol. 152; p. 408.
Dust-receptacle. J. S. Thurman. No. 956,450; Apr. 26; Sp. p. 5990; Gaz. vol. 153; p. 1040.
Dust-remover. H. J. S. Lewis and J. F. Reynolds. No. 971,054; Sept. 27; Sp. p. 4082; Gaz. vol. 158; p. 722.
Dust-remover, Suction. F. X. Frank. No. 951,808; Mar. 15; Sp. p. 2741; Gaz. vol. 152; p. 501.
Dust-remover, Vacuum. J. G. Meyer. No. 956,862; May 3; Sp. p. 789; Gaz. vol. 154; p. 125.
Dust-removing apparatus. C. Johnson. No. 946,047; Jan. 11; Sp. p. 2305; Gaz. vol. 150; p. 382.
Dust-removing apparatus. D. T. Kenney. No. 963,049; July 5; Sp. p. 47; Gaz. vol. 156; p. 9.
Dust-separating or vacuum cleaning apparatus. L. W. Serrell. No. 964,940; July 19; Sp. p. 4223; Gaz. vol. 156; p. 705.
Dust-separating or vacuum cleaning apparatus. L. W. Serrell. No. 979,211; Dec. 20; Sp. p. 3899; Gaz. vol. 161; p. 674.
Dust-separating tank. B. Lobee. No. 974,163; Nov. 1; Sp. p. 112; Gaz. vol. 160; p. 22.
Dust-separator. H. D. Webb and N. Baxter. No. 945,205; Jan. 4; Sp. p. 412; Gaz. vol. 150; p. 68.
Dust-separator. C. C. Wickwire. No. 948,082; Feb. 1; Sp. p. 632; Gaz. vol. 151; p. 103.
Dusting apparatus. F. C. Stevens. No. 967,993; Aug. 23; Sp. p. 4566; Gaz. vol. 157; p. 801.
Dusting-machine. U. C. Davis. No. 969,609; Sept. 6; Sp. p. 983; Gaz. vol. 158; p. 156.
Dye. F. Runkel and M. Herzberg. No. 958,830; May 24; Sp. p. 5256; Gaz. vol. 154; p. 886.
Dye. M. Weiler. No. 976,417; Nov. 22; Sp. p. 5173; Gaz. vol. 160; p. 879.
Dye. O. Dressel, R. Kothe, and H. Hoerlein. No. 978,438; Dec. 13; Sp. p. 2208; Gaz. vol. 161; p. 382.
Dye. O. Günther, L. Hesse, and A. Zart. No. 978,580; Dec. 13; Sp. p. 2532; Gaz. vol. 161; p. 432.
Dye and making, Black monoazo. F. Scholl. No. 958,774; May 24; Sp. p. 5119; Gaz. vol. 154; p. 865.
Dye and making, Monoazo. O. Ernst and H. Eichwede. No. 978,865; Dec. 20; Sp. p. 3103; Gaz. vol. 161; p. 550.
Dye and making, Orange disazo. M. Böniger. No. 959,109; May 24; Sp. p. 5846; Gaz. vol. 154; p. 980.
Dye and making same, Anthracene. R. Scholl and M. H. Isler. No. 955,105; Apr. 12; Sp. p. 3033; Gaz. vol. 153; p. 515.
Dye and making same, Azo. W. Herzberg and M. Ronus. No. 955,068; Apr. 12; Sp. p. 2972; Gaz. vol. 153; p. 504.
Dye and making same, Blue vat. R. Herz. No. 956,348; Apr. 26; Sp. p. 5773; Gaz. vol. 153; p. 1004.
Dye and making same, Brown sulfur. G. List. No. 960,652; June 7; Sp. p. 845; Gaz. vol. 155; p. 139.
Dye and making same, Green vat. H. Kraft. No. 960,098; May 31; Sp. p. 7969; Gaz. vol. 154; p. 1339.
Dye and making same, Orange sulfur. A. Schaarschmidt. No. 966,478; Aug. 9; Sp. p. 1344; Gaz. vol. 157; p. 239.
Dye and making same, Red azo. W. Herzberg and M. Ronus. No. 954,960; Apr. 12; Sp. p. 2772; Gaz. vol. 153; p. 469.
Dye and making same, Red halogenized. A. Schmidt and E. Bryk. No. 963,813; July 12; Sp. p. 1758; Gaz. vol. 156; p. 291.
Dye and making same, Sulfur. R. Haugwitz. No. 958,640; May 17; Sp. p. 4835; Gaz. vol. 154; p. 794.
Dye and making same, Vat. A. Schmidt and E. Bryk. No. 947,030; Jan. 18; Sp. p. 4517; Gaz. vol. 150; p. 744.
Dye and making same, Vat. A. Schmidt, E. Bryk, and R. Voss. No. 968,697; Aug. 30; Sp. p. 6132; Gaz. vol. 157; p. 1070.
Dye and making same, Vat. R. Bohn. No. 970,878; Sept. 20; Sp. p. 3722; Gaz. vol. 158; p. 636.
Dye and making same, Yellow. P. Julius and E. Fussenegger. No. 955,080; Apr. 12; Sp. p. 2994; Gaz. vol. 153; p. 508.
Dye and making, Vat. A. Schmidt and E. Bryk. No. 959,617; May 31; Sp. p. 6901; Gaz. vol. 154; p. 1174.
Dye, Anthracene vat. P. Thomaschewski, H. Raeder, W. Mieg, and P. Fischer. No. 970,278; Sept. 13; Sp. p. 2433; Gaz. vol. 158; p. 410.
Dye, Aurin. M. Weiler. No. 978,799; Dec. 13; Sp. p. 2974; Gaz. vol. 161; p. 503.
Dye, Aurin. M. Weiler. No. 978,801; Dec. 13; Sp. p. 2975; Gaz. vol. 161; p. 504.
Dye, Aurin. M. Weiler. No. 978,802; Dec. 13; Sp. p. 2976; Gaz. vol. 161; p. 504.
Dye, Azo. F. Runkel and M. Herzberg. No. 950,404; Feb. 22; Sp. p. 5537; Gaz. vol. 151; p. 970.
Dye, Azo. F. Runkel and M. Herzberg. No. 950,405; Feb. 22; Sp. p. 5539; Gaz. vol. 151; p. 970.
Dye, Azo. M. Herzberg and F. Runkel. No. 953,034; Mar. 29; Sp. p. 5268; Gaz. vol. 152; p. 970.

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Dye, Azo. O. Günther and L. Hesse. (Reissue.) No. 13,121; June 14; Sp. p. 3110; Gaz. vol. 155; p. 537.
Dye, Azo. O. Günther and L. Hesse. (Reissue.) No. 13,122; June 14; Sp. p. 3111; Gaz. vol. 155; p. 537.
Dye, Azo. W. Bergdolt. No. 963,739; July 12; Sp. p. 1583; Gaz. vol. 156; p. 266.
Dye, Azo. M. Kahn and A. Ossenbeck. No. 964,786; July 19; Sp. p. 3923; Gaz. vol. 156; p. 652.
Dye, Azo. O. Dressel, R. Kothe, and H. Hoerlein. No. 965,882; Aug. 2; Sp. p. 68; Gaz. vol. 157; p. 13.
Dye, Azo. A. Blank and K. Heusner. No. 969,450; Sept. 6; Sp. p. 627; Gaz. vol. 158; p. 100.
Dye, Black azo. O. Günther, L. Hesse, and A. Zart. No. 945,780; Jan. 11; Sp. p. 1717; Gaz. vol. 150; p. 288.
Dye, Blue. W. Bauer and A. Herre. No. 961,398; June 14; Sp. p. 2369; Gaz. vol. 155; p. 419.
Dye, Blue. W. Bauer and A. Herre. No. 961,399; June 14; Sp. p. 2370; Gaz. vol. 155; p. 419.
Dye, Blue vat. W. Bauer and A. Herre. No. 958,464; May 17; Sp. p. 4499; Gaz. vol. 154; p. 736.
Dye, Blue vat. W. Bauer and A. Herre. No. 958,465; May 17; Sp. p. 4500; Gaz. vol. 154; p. 737.
Dye, Blue vat. W. Bauer and A. Herre. No. 980,140; Dec. 27; Sp. p. 5912; Gaz. vol. 161; p. 1009.
Dye, Bluish-gray vat. P. Thomaschewski, H. Raeder, W. Mieg, and P. Fischer. No. 971,224; Sept. 27; Sp. p. 4446; Gaz. vol. 158; p. 779.
Dye, Bluish-red disazo. A. L. Laska. No. 964,918; July 19; Sp. p. 4188; Gaz. vol. 156; p. 698.
Dye, Brown. M. Kahn. No. 946,050; Jan. 11; Sp. p. 2310; Gaz. vol. 150; p. 384.
Dye, Brown. M. Kahn. No. 946,051; Jan. 11; Sp. p. 2311; Gaz. vol. 150; p. 384.
Dye, Brown azo. M. Herzberg and F. Runkel. No. 953,033; Mar. 29; Sp. p. 5267; Gaz. vol. 152; p. 970.
Dye, Brown azo. M. Herzberg and F. Runkel. No. 953,035; Mar. 29; Sp. p. 5269; Gaz. vol. 152; p. 971.
Dye, Brown mordant azo. A. L. Laska. No. 964,919; July 19; Sp. p. 4189 Gaz. vol. 156; p. 698.
Dye, Brown vat. P Thomaschewski, H. Raeder, W. Mieg, and P. Fischer. No. 971,225; Sept. 27; Sp. p. 4447; Gaz. vol. 158; p. 779.
Dye, Disazo. A. L. Laska. No. 964,920; July 19; Sp. p. 4190; Gaz. vol. 156; p. 699.
Dye, Extracting lac. G. J. Fowler. No. 954,949; Apr. 12; Sp. p. 2745; Gaz. vol. 153; p. 465.
Dye for chromed wool and making same, Azo. H. Oster. No. 949,633; Feb. 15; Sp. p. 3862; Gaz. vol. 151; p. 673.
Dye for lakes, Monoazo. K. Schnitzspahn. No. 976,401; Nov. 22; Sp. p. 5147; Gaz. vol. 160; p. 873.
Dye, Gallocyanin. W. Lommel. No. 961,362; June 14; Sp. p. 2312; Gaz. vol. 155; p. 408.
Dye, Gray anthraquinone. W. Mieg. No. 960,182; May 31; Sp. p. 8128; Gaz. vol. 154; p. 1367.
Dye, Green azo. J. Jansen and W. Neelmeier. No. 961,354; June 14; Sp. p. 2301; Gaz. vol. 155; p. 406.
Dye, Green azo. W. Bergdolt. No. 974,346; Nov. 1; Sp. p. 612; Gaz. vol. 160; p. 92.
Dye, Greenish-yellow. P. Volkmann. No. 969,428; Sept. 6; Sp. p. 592; Gaz. vol. 158; p. 94.
Dye, Making a thioindigo. E. Münch. No. 949,592; Feb. 15; Sp. p. 3787; Gaz. vol. 151; p. 659.
Dye, New vat. P. Thomaschewski. No. 961,387; June 14; Sp. p. 2357; Gaz. vol. 155; p. 416.
Dye of anthracene series, Vat. H. Raeder. No. 950,343; Feb. 22; Sp. p. 5430; Gaz. vol. 151; p. 952.
Dye, Orange azo. K. Schnitzspahn. No. 959,078; May 24; Sp. p. 5788; Gaz. vol. 154; p. 970.
Dye, Orange-red to violet. M. Weiler. No. 950,359; Feb. 22; Sp. p. 5451; Gaz. vol. 151; p. 956.
Dye, Orange to brown. A. Blank and W. Rodionow. No. 951,048; Mar. 1; Sp. p. 1187; Gaz. vol. 152; p. 194.
Dye, Orange vat. J. Deinet. No. 957,040; May 3; Sp. p. 1167; Gaz. vol. 154; p. 185.
Dye, Red azo. J. Jansen and W. Neelmeier. No. 961,355; June 14; Sp. p. 2302; Gaz. vol. 155; p. 406.
Dye, Red basic. W. König. No. 947,918; Feb. 1; Sp. p. 287; Gaz. vol. 151; p. 48.
Dye, Red to violet wool. M. Weiler. No. 947,876; Feb. 1; Sp. p. 219; Gaz. vol. 151; p. 35.
Dye, Reddish-brown cotton. A. Blank and W. Rodionow. No. 951,049; Mar. 1; Sp. p. 1187; Gaz. vol. 152; p. 194.
Dye, Thioindigo vat. A. Schmidt and K. Thiess. No. 955,699; Apr. 19; Sp. p. 4350; Gaz. vol. 153; p. 751.
Dye, Trisazo. A. Blank and W. Bergdolt. No. 971,111; Sept. 27; Sp. p. 4197; Gaz. vol. 158; p. 741.
Dye, Trisazo. A. Blank and W. Bergdolt. No. 971,112; Sept. 27; Sp. p. 4198; Gaz. vol. 158; p. 741.
Dye, Vat. H. Raeder. No. 950,344; Feb. 22; Sp. p. 5431; Gaz. vol. 151; p. 952.
Dye, Vat. J. Deinet. No. 957,039; May 3; Sp. p. 1167; Gaz. vol. 154; p. 185.
Dye, Vat. J. Deinet. No. 957,041; May 3; Sp. p. 1168; Gaz. vol. 154; p. 185.
Dye, Vat. J. Deinet. No. 957,042; May 3; Sp. p. 1169; Gaz. vol. 154; p. 185.
Dye, Vat. P. Thomaschewski. No. 957,125; May 3; Sp. p. 1332; Gaz. vol. 154; p. 213.
Dye, Vat. J. Deinet. No. 957,146; May 3; Sp. p. 1368; Gaz. vol. 154; p. 219.
Dye, Vat. P. Thomaschewski. No. 961,388; June 14; Sp. p. 2357; Gaz. vol. 155; p. 417.
Dye, Vat. W. Bauer and A. Herre. No. 961,396; June 14; Sp. p. 2367; Gaz. vol. 155; p. 419.
Dye-vat-charging apparatus. B. Mayoux and C. Verchère. No. 960,662; June 7; Sp. p. 864; Gaz. vol. 155; p. 142.
Dye, Wool. W. Berchelmann. No. 958,850; May 24; Sp. p. 5307; Gaz. vol. 154; p. 894.
Dye, Yellow. P. Volkmann. No. 972,951; Oct. 18; Sp. p. 3190; Gaz. vol. 159; p. 555.
Dye, Yellow to brown. A. Blank and W. Rodionow. No. 951,046; Mar. 1; Sp. p. 1185; Gaz. vol. 152; p. 194.
Dye, Yellow to brown. A. Blank and W. Rodionow. No. 951,047; Mar. 1; Sp. p. 1186; Gaz. vol. 152; p. 194.
Dyes and making, Gray vat. H. Broniatowski. No. 968,533; Aug. 30; Sp. p. 5741; Gaz. vol. 157; p. 1012.
Dyes soluble in water, Compound of sulfur. E. Haussmann. No. 953,008; Mar. 22; Sp. p. 5207; Gaz. vol. 152; p. 934.
Dyes, Yellow-red basic. W. König. No. 949,906; Feb. 22; Sp. p. 4485; Gaz. vol. 151; p. 801.
Dyeing acetyl cellulose. E. Knoevenagel. No. 961,241; June 14; Sp. p. 2030; Gaz. vol. 155; p. 366.
Dyeing acetyl cellulose. E. Knoevenagel. No. 961,966; Dec. 27; Sp. p. 5507; Gaz. vol. 161; p. 952.
Dyeing and product thereof. R. Ott. No. 961,368; June 14; Sp. p. 2322; Gaz. vol. 155; p. 410.
Dyeing and product thereof. R. E. Schmidt. No. 964,816; July 19; Sp. p. 3976; Gaz. vol. 156; p. 661.
Dyeing and product thereof. J. Deinet. No. 972,065; Oct. 4; Sp. p. 1206; Gaz. vol. 159; p. 204.
Dyeing and product thereof. J. Deinet. No. 972,066; Oct. 4; Sp. p. 1207; Gaz. vol. 159; p. 204.
Dyeing apparatus, Yarn-. J. M. Payne and G. G. Wallace. No. 976,830; Nov. 22; Sp. p. 6026; Gaz. vol. 160; p. 1018.
Dyeing half-woolen goods. G. Rudolph. No. 976,219; Nov. 22; Sp. p. 4702; Gaz. vol. 160; p. 809.
Dyeing-machine. J. T. Psarski. No. 955,993; Apr. 26; Sp. p. 4988; Gaz. vol. 153; p. 882.
Dyeing-machine. J. Richardson and J. F. Neef. No. 957,801; May 10; Sp. p. 2761; Gaz. vol. 154; p. 473.
Dyeing-machine. W. A. Fowler. No. 965,625; July 26; Sp. p. 5699; Gaz. vol. 156; p. 968.
Dyeing-machine. R. H. Comey. No. 972,822; Oct. 18; Sp. p. 2846; Gaz. vol. 159; p. 508.
Dyeing-machine. G. E. Drum and J. H. Skitt. No. 973,487; Oct. 25; Sp. p. 4355; Gaz. vol. 159; p. 762.
Dyeing-machine, Collapsible revolving-beam vacuum. F. M. Morton. No. 975,269; Nov. 8; Sp. p. 2689; Gaz. vol. 160; p. 435.
Dyeing-machines, Ribbed revolving vacuum-beam for. F. M. Morton. No. 975,270; Nov. 8; Sp. p. 2691; Gaz. vol. 160; p. 435.
Dyeing, Packaging yarn for. F. H. Daniell and J. C. Hebden. No. 974,127; Nov. 1; Sp. p. 43; Gaz. vol. 160; p. 10.
Dyestuff. O. Dressel, R. Kothe, and H. Hoerlein. No. 978,439; Dec. 13; Sp. p. 2209; Gaz. vol. 161; p. 383.
Dyestuff, Aurin. M. Weiler. No. 978,800; Dec. 13; Sp. p. 2975; Gaz. vol. 161; p. 503.
Dyestuff for wool, Yellow disazo. A. L. Laska. No. 971,761; Oct. 4; Sp. p. 529; Gaz. vol. 159; p. 92.
Dyestuff for wool, Yellow disazo. A. L. Laska. No. 971,762; Oct. 4; Sp. p. 531; Gaz. vol. 159; p. 93.
Dyestuff, Vat. W. Bauer and A. Herre. No. 961,397; June 14; Sp. p. 2368; Gaz. vol. 155; p. 419.
Dynamite-heater. O. Molander. No. 960,370; June 7; Sp. p. 271; Gaz. vol. 155; p. 46.
Dynamite-thawer. S. S. Scholl. No. 978,659; Dec. 13; Sp. p. 2702; Gaz. vol. 161; p. 459.
Dynamo. L. A. Herdt. No. 969,161; Sept. 6; Sp. p. 19; Gaz. vol. 158; p. 6.
Dynamo brush-holder. E. C. Ketchum. No. 966,839; Aug. 9; Sp. p. 2186; Gaz. vol. 157; p. 360.
Dynamo-driving. W. I. Thomson. No. 957,522; May 10; Sp. p. 2192; Gaz. vol. 154; p. 379.
Dynamo-machine. D. C. Jackson. No. 960,093; May 31; Sp. p. 7958; Gaz. vol. 154; p. 1337.
Dynamos, Automatic potential-regulator for. J. J. Mueller, Jr. No. 965,396; July 26; Sp. p. 5171; Gaz. vol. 156; p. 887.
Dynamos, Suspension for train-lighting. J. A. Misland. No. 960,368; June 7; Sp. p. 268; Gaz. vol. 155; p. 45.
Dynamometer. S. T. Park and J. E. Phillips. No. 946,264; Jan. 11; Sp. p. 2761; Gaz. vol. 150; p. 459.
Dynamometer. E. A. Johnston. No. 950,511; Mar. 1; Sp. p. 105; Gaz. vol. 152; p. 18.
Dynamometer, Indicating, recording, and integrating. W. J. Crowell, Jr. No. 945,757; Jan. 11; Sp. p. 1665; Gaz. vol. 150; p. 280.
Ear-muff. P. Loewe. No. 958,263; May 17; Sp. p. 3943; Gaz. vol. 154; p. 664.
Ear-muff. J. B. Fassler. No. 961,765; June 21; Sp. p. 3158; Gaz. vol. 155; p. 567.
Ear-phone receivers, Adjusting means for the regulation of the intensity of sound for. R. J. Barber. No. 968,231; Aug. 23; Sp. p. 5111; Gaz. vol. 157; p. 881.
Ear-plug for bathers. J. Lopizich. No. 955,276; Apr. 19; Sp. p. 3411; Gaz. vol. 153; p. 606.

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Ear-protector. A. Passman. No. 970,544; Sept. 20; Sp. p. 2991; Gaz. vol. 158; p. 520.
Ear-rings and buttons, Safety screw-back for. H. Stern. No. 978,789; Dec. 13; Sp. p. 2958; Gaz. vol. 161; p. 500.
Earth-drill. J. D. Coplen. No. 975,020; Nov. 8; Sp. p. 2142; Gaz. vol. 160; p. 350.
Earth-hole-forming machine for weed-exterminating purposes. J. Prisk. No. 971,791; Oct. 4; Sp. p. 588; Gaz. vol. 159; p. 103.
Earthenware articles, Forming ornamentations on. E. J. Whitehead. No. 979,726; Dec. 27; Sp. p. 4994; Gaz. vol. 161; p. 872.
Earthenware, Machine for brushing. W. Polk. No. 949,381; Feb. 15; Sp. p. 3382; Gaz. vol. 151; p. 590.
Earthenware pipes, Machine for the manufacture of. M. Yarrow. No. 978,347; Dec. 13; Sp. p. 2016; Gaz. vol. 161; p. 351.
Earthenware, Skeleton structure for the production of. E. L. Jester. No. 954,029; Apr. 5; Sp. p. 694; Gaz. vol. 153; p. 122.
Earthworking-machine. C. F. Schaupp. No. 974,526; Nov. 1; Sp. p. 1037; Gaz. vol. 160; p. 155.
Easel. W. E. Trum. No. 962,932; June 28; Sp. p. 5654; Gaz. vol. 155; p. 990.
Easel or the like. F. J. Kristofek. No. 962,903; June 28; Sp. p. 5602; Gaz. vol. 155; p. 980.
Easels and the like, Support for. O. J. E. Schmitt. No. 963,327; July 5; Sp. p. 734; Gaz. vol. 156; p. 105.
Eaves-trough guard. F. M. Deitsch. No. 951,803; Mar. 15; Sp. p. 2732; Gaz. vol. 152; p. 499.
Eaves-trough hanger. S. T. Nakashjian. No. 948,901; Feb. 8; Sp. p. 2364; Gaz. vol. 151; p. 402.
Eaves-trough hanger. E. W. Dreher and R. P. Kronke. No. 950,129; Feb. 22; Sp. p. 4991; Gaz. vol. 151; p. 877.
Eaves-trough hangers, Machine for forming. H. A. Gibbs. No. 973,648; Oct. 25; Sp. p. 4701; Gaz. vol. 159; p. 817.
Eaves-trough protector. H. R. Daniels. No. 960,835; June 7; Sp. p. 1207; Gaz. vol. 155; p. 201.
Eaves-trough, Self-cleaning. E. Kreutzberg. No. 956,372; Apr. 26; Sp. p. 5829; Gaz. vol. 153; p. 1012.
Eccentric-fastening. F. P. Sasaman. No. 979,207; Dec. 20; Sp. p. 3889; Gaz. vol. 161; p. 673.
Economizer. A. A. Low. No. 971,682; Oct. 4; Sp. p. 360; Gaz. vol. 159; p. 63.
Edge setter and finisher. E. N. Chandler. No. 977,510; Dec. 6; Sp. p. 201; Gaz. vol. 161; p. 31.
Edge-trimmer. A. J. Johnson. No. 965,192; July 26; Sp. p. 4727; Gaz. vol. 156; p. 819.
Edge-trimmer. J. A. Hagerman. No. 968,654; Aug. 30; Sp. p. 6012; Gaz. vol. 157; p. 1056.
Educational and amusement device. C. E. Fisher. No. 973,186; Oct. 18; Sp. p. 3727; Gaz. vol. 159; p. 636.
Educational apparatus. L. Barritt. No. 959,987; May 31; Sp. p. 7721; Gaz. vol. 154; p. 1301.
Educational appliance. H. Hanstein. No. 951,606; Mar. 8; Sp. p. 2312; Gaz. vol. 152; p. 401.
Educational appliance. J. Spencer. No. 958,781; May 24; Sp. p. 5144; Gaz. vol. 154; p. 867
Educational appliance. R. F. Smith. No. 964,064; July 12; Sp. p. 2284; Gaz. vol. 156; p. 376.
Educational appliance. J. G. Warfield. No. 967,591; Aug. 16; Sp. p. 3745; Gaz. vol. 157; p. 643.
Educational appliance. L. T. Freeman, Sr. No. 971,185; Sept. 27; Sp. p. 4365; Gaz. vol. 158; p. 766.
Educational appliance. W. D. Gibbs. No. 977,793; Dec. 6; Sp. p. 819; Gaz. vol. 161; p. 127.
Educational device. B. S. Potter. No. 947,064; Jan. 18; Sp. p. 4571; Gaz. vol. 150; p. 753.
Educational device. G. Tuck and A. E. Kennedy. No. 969,309; Sept. 6; Sp. p. 327; Gaz. vol. 158; p. 54.
Educational device. J. G. Warfield. No. 969,429; Sept. 6; Sp. p. 592; Gaz. vol. 158; p. 94.
Educational implement. E. A. Richardson. No. 966,473; Aug. 9; Sp. p. 1337; Gaz. vol. 157; p. 237.
Educational novelty. M. Stocklmier. No. 971,865; Oct. 4; Sp. p. 755; Gaz. vol. 159; p. 131.
Egg and cream beater. D. Taylor. No. 970,969; Sept. 20; Sp. p. 3891; Gaz. vol. 158; p. 665.
Egg-batter, Desiccating. J. M. Hussey. No. 957,061; May 3; Sp. p. 1207; Gaz. vol. 154; p. 192.
Egg-beater. A. C. Poore. No. 945,983; Jan. 11; Sp. p. 2171; Gaz. vol. 150; p. 361.
Egg-beater. C. A. Nichols. No. 946,521; Jan. 11; Sp. p. 3412; Gaz. vol. 150; p. 547.
Egg-beater. C. W. Fisher. No. 948,214; Feb. 1; Sp. p. 891; Gaz. vol. 151; p. 145.
Egg-beater. R. Washburn. No. 948,750; Feb. 8; Sp. p. 2058; Gaz. vol. 151; p. 352.
Egg-beater. H. F. Nehr. No. 951,834; Mar. 15; Sp. p. 2790; Gaz. vol. 152; p. 509.
Egg-beater. R. Nielsen and J. Imirie. No. 955,672; Apr. 19; Sp. p. 4285; Gaz. vol. 153; p. 741.
Egg-beater. J. W. Horner and G. L. Patterson. No. 959,536; May 31; Sp. p. 6737; Gaz. vol. 154; p. 1147.
Egg-beater. J. N. Ramstad. No. 959,606; May 31; Sp. p. 6880; Gaz. vol. 154; p. 1171.
Egg-beater. J. N. Ward. No. 961,272; June 14; Sp. p. 2099; Gaz. vol. 155; p. 376.
Egg-beater. A. Mattern. No. 964,291; July 12; Sp. p. 2747; Gaz. vol. 156; p. 453.
Egg-beater. A. H. Otten. No. 964,306; July 12; Sp. p. 2778; Gaz. vol. 156; p. 458.
Egg-beater. E. M. Morgan. No. 974,586; Nov. 1; Sp. p. 1170; Gaz. vol. 160; p. 178.
Egg-beater and cream-whipper. H. K. Gilmour. No. 959,731; May 31; Sp. p. 7141; Gaz. vol. 154; p. 1212.
Egg-boiler. C. B. Martin. No. 963,607; July 5; Sp. p. 1296; Gaz. vol. 156; p. 199.
Egg-box. C. B. Klefeker. No. 957,218; May 10; Sp. p. 1552; Gaz. vol. 154; p. 275.
Egg candling and packing machine. H. Pieper. No. 952,352; Mar. 15; Sp. p. 3808; Gaz. vol. 152; p. 682.
Egg-carrier. H. S. Jenne. No. 945,096; Jan. 4; Sp. p. 191; Gaz. vol. 150; p. 32.
Egg-carrier. E. O. Bulman. No. 958,087; May 17; Sp. p. 3585; Gaz. vol. 154; p. 604.
Egg-carrier. P. J. Nagle. No. 961,889; June 21; Sp. p. 3436; Gaz. vol. 155; p. 607.
Egg-case. A. C. Segessemann. No. 946,739; Jan. 18; Sp. p. 3855; Gaz. vol. 150; p. 643.
Egg-case. J. A. Johnson and C. P. Wood. No. 963,769; July 12; Sp. p. 1636; Gaz. vol. 156; p. 275.
Egg-cup. A. G. Wettergren and T. Furer. No. 968,216; Aug. 23; Sp. p. 5085; Gaz. vol. 157; p. 876.
Egg-cup. E. E. A. MacNaughton. No. 971,910; Oct. 4; Sp. p. 860; Gaz. vol. 159; p. 147.
Egg-drying apparatus. H. E. Coffin. No. 977,371; Nov. 29; Sp. p. 7261; Gaz. vol. 160; p. 1232.
Egg-handler. H. R. Morris. No. 978,049; Dec. 6; Sp. p. 1347; Gaz. vol. 161; p. 216.
Egg holder and cutter. A. A. Anderson. No. 962,293; June 21; Sp. p. 4318; Gaz. vol. 155; p. 745.
Egg-lifter. J. W. Lang. No. 962,362; June 21; Sp. p. 4451; Gaz. vol. 155; p. 767.
Egg-marking device. S. A. Merkley. No. 970,074; Sept. 13; Sp. p. 2011; Gaz. vol. 158; p. 341.
Egg-opener. J. T. Underwood. No. 966,269; Aug. 2; Sp. p. 902; Gaz. vol. 157; p. 144.
Egg-packing device. R. C. Holmes. No. 969,954; Sept. 13; Sp. p. 1745; Gaz. vol. 158; p. 300.
Egg-preserving device. D. A. Callaway. No. 956,568; May 3; Sp. p. 127; Gaz. vol. 154; p. 23.
Egg-separator. M. Burrmeister. No. 956,678; May 3; Sp. p. 372; Gaz. vol. 154; p. 61.
Egg-separator. G. E. Lewis. No. 966,933; Aug. 9; Sp. p. 2380; Gaz. vol. 157; p. 390.
Egg-separator. C. E. Woodrow. No. 968,910; Aug. 30; Sp. p. 6558; Gaz. vol. 157; p. 1142.
Egg-shell remover. A. Uhlir. No. 963,407; July 5; Sp. p. 895; Gaz. vol. 156; p. 132.
Egg-stamp. D. Ortiz. No. 969,898; Sept. 13; Sp. p. 1633; Gaz. vol. 158; p. 281.
Egg-stamp. H. G. Young. No. 975,010; Nov. 8; Sp. p. 2127; Gaz. vol. 160; p. 346.
Egg-tester. A. L. Anderson. No. 952,174; Mar. 15; Sp. p. 3454; Gaz. vol. 152; p. 621.
Egg-tester. G. Arthur. No. 962,876; June 28; Sp. p. 5560; Gaz. vol. 155; p. 973.
Egg-tester. W. Rogers. No. 970,115; Sept. 13; Sp. p. 2085; Gaz. vol. 158; p. 354.
Egg-tester. M. Andrews. No. 972,592; Oct. 11; Sp. p. 2371; Gaz. vol. 159; p. 404.
Egg-tester. W. Schroeder. No. 976,700; Nov. 22; Sp. p. 5751; Gaz. vol. 160; p. 974.
Egg-testing device. C. Woodring. No. 953,886; Apr. 5; Sp. p. 400; Gaz. vol. 153; p. 73.
Egg transfer and testing device. W. A. Landis and L. A. Costa. No. 978,601; Dec. 13; Sp. p. 2576; Gaz. vol. 161; p. 439.
Egg-tray. D. D. Granger. No. 947,813; Feb. 1; Sp. p. 61; Gaz. vol. 151; p. 13.
Eggs and whipping cream, Device for beating. B. F. Fowler. No. 966,738; Aug. 9; Sp. p. 1938; Gaz. vol. 157; p. 328.
Eggs from boilers, Apparatus for timing and removing. C. S. Kinney. No. 963,050; July 5; Sp. p. 48; Gaz. vol. 156; p. 10.
Eggs, Preserving. H. J. and S. C. Keith, Jr. No. 955,835; Apr. 19; Sp. p. 4621; Gaz. vol. 153; p. 798.
Ejector. M. B. Parsons. No. 966,048; Aug. 2; Sp. p. 446; Gaz. vol. 157; p. 71.
Elastic cellular filling material, Apparatus for use in the manufacture of. R. J. Caldwell and F. Pfleumer. No. 957,034; May 3; Sp. p. 1156; Gaz. vol. 154; p. 183.
Elastic fabric, Woven. E. Baumgarten. No. 978,541; Dec. 13; Sp. p. 2422; Gaz. vol. 161; p. 417.
Elastic tread. C. J. Bailey. No. 954,413; Apr. 12; Sp. p. 1521; Gaz. vol. 153; p. 279.
Elastic wheel. G. Friedberg. No. 953,327; Mar. 29; Sp. p. 5904; Gaz. vol. 152; p. 1066.
Elastic wheel. C. F. Renard. No. 954,004; Apr. 5; Sp. p. 637; Gaz. vol. 153; p. 114.
Elastic wheel. J. C. MacLachlan. No. 955,417; Apr. 19; Sp. p. 3723; Gaz. vol. 153; p. 654.
Elastic wheel. J. Spyker. No. 969,304; Sept. 6; Sp. p. 319; Gaz. vol. 158; p. 52.
Elbow-bending machine. H. C. H. Walsh. No. 975,184; Nov. 8; Sp. p. 2514; Gaz. vol. 160; p. 406.
Electric accumulator. L. Marseille and P. Gouin. No. 960,567; June 7; Sp. p. 674; Gaz. vol. 155; p. 111.

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Electric accumulator. L. Marseille and P. Gouin. No. 966,033; Aug. 2; Sp. p. 411; Gaz. vol. 157; p. 66.
Electric alarm. H. D. Hanson. No. 967,766; Aug. 16; Sp. p. 4095; Gaz. vol. 157; p. 701.
Electric alarm and call-bell system. J. H. Field. No. 976,562; Nov. 22; Sp. p. 5489; Gaz. vol. 160; p. 928.
Electric and gas fixture bracket, Combination. J. D. Coder. No. 964,493; July 19; Sp. p. 3160; Gaz. vol. 156; p. 549.
Electric and hand power elevator, Self-sustaining. T. Wright. No. 955,932; Apr. 26; Sp. p. 4861; Gaz. vol. 153; p. 860.
Electric apparatus. R. P. Jackson and H. M. Scheibe. No. 959,544; May 31; Sp. p. 6757; Gaz. vol. 154; p. 1150.
Electric apparatus, Magnetic core for. W. C. Fish. No. 952,105; Mar. 15; Sp. p. 3325; Gaz. vol. 152; p. 599.
Electric apparatus, Protective device for. F. W. Harris. No. 963,762; July 12; Sp. p. 1623; Gaz. vol. 156; p. 273.
Electric apparatus, Vapor. J. T. H. Dempster. No. 953,598; Mar. 29; Sp. p. 6497; Gaz. vol. 152; p. 1161.
Electric apparatus, Vapor. C. O. Bastian and A. E. Salisbury. No. 954,407; Apr. 5; Sp. p. 1500; Gaz. vol. 153; p. 249.
Electric apparatus, Vapor. J. T. H. Dempster. No. 962,497; June 28; Sp. p. 4770; Gaz. vol. 155; p. 840.
Electric arc or resistance and induction furnace, Combined. J. H. Reid. No. 956,544; May 3; Sp. p. 83; Gaz. vol. 154; p. 15.
Electric arcs, Production of long stable. O. Schönherr and J. Hessberger. No. 976,002; Nov. 15; Sp. p. 4201; Gaz. vol. 160; p. 712.
Electric automatically-operated gate. O. G. de Hoog. No. 953,259; Mar. 29; Sp. p. 5768; Gaz. vol. 152; p. 1044.
Electric battery. W. Morrison. No. 950,861; Mar. 1; Sp. p. 850; Gaz. vol. 152; p. 136.
Electric battery. F. A. Decker. No. 957,192; May 10; Sp. p. 1483; Gaz. vol. 154; p. 265.
Electric battery. C. J. Everett. No. 977,721; Dec. 6; Sp. p. 672; Gaz. vol. 161; p. 103.
Electric bond. T. J. Cope. No 963,035; July 5; Sp. p. 16; Gaz. vol. 156; p. 5.
Electric brake. R. R. Dunlop. No. 973,926; Oct. 25; Sp. p. 5269; Gaz. vol. 159; p. 914.
Electric braking. J. F. Tritle. No. 973,590; Oct. 25; Sp. p. 4562; Gaz. vol. 159; p. 796.
Electric buzzer. J. F. McElroy. No. 963,238; July 5; Sp. p. 533; Gaz. vol. 156; p. 75.
Electric cable. R. F. Hall. No. 957,506; May 10; Sp. p. 2158; Gaz. vol. 154; p. 373.
Electric cable. W. Geipel. No. 965,810; July 26; Sp. p. 6082; Gaz. vol. 156; p. 1031.
Electric cable. G. Bartels. No. 966,644; Aug. 9; Sp. p. 1729; Gaz. vol. 157; p. 295.
Electric cable. J. H. Cuntz. No. 977,713; Dec. 6; Sp. p. 660; Gaz. vol. 161; p. 101.
Electric cable, Aerial. C. E. Egnér and R. F. Fredriksson. No. 960,291; June 7; Sp. p. 102; Gaz. vol. 155; p. 20.
Electric-cable connection. W. J. Littlehales. No. 948,563; Feb. 8; Sp. p. 1657; Gaz. vol. 151; p. 289.
Electric-cable connection. L. H. Church. No. 979,651; Dec. 27; Sp. p. 4827; Gaz. vol. 161; p. 847.
Electric-cable joint. W. O. Wilson. No. 975,592; Nov. 15; Sp. p. 3371; Gaz. vol. 160; p. 572.
Electric-cable retriever. H. R. and E. B. Graves. No. 972,077; Oct. 4; Sp. p. 1226; Gaz. vol. 159; p. 208.
Electric-cable terminal. C. W. Davis. (Reissue.) No. 13,145; Aug. 23; Sp. p. 5700; Gaz. vol. 157; p. 982.
Electric cables, Connection and seal for the ends of. F. N. Bierce and E. T. Jones. No. 965,684; July 26; Sp. p. 5817; Gaz. vol. 156; p. 988.
Electric charges between solid conductors and gases, Effecting interchange of. F. G. Cottrell. No. 945,917; Jan. 11; Sp. p. 2031; Gaz. vol. 150; p. 338.
Electric-circuit breaker. W. H. Scott. No. 959,171; May 24; Sp. p. 5985; Gaz. vol. 154; p. 1000.
Electric-circuit-changing mechanism. F. B. Hall. No. 978,879; Dec. 20; Sp. p. 3130; Gaz. vol. 161; p. 555.
Electric-circuit controller. H. D. James. No. 947,336; Jan. 25; Sp. p. 5185; Gaz. vol. 150; p. 874.
Electric-circuit-controlling means. J. K. Lux. No. 964,037; July 12; Sp. p. 2226; Gaz. vol. 156; p. 367.
Electric-circuit-controlling means. J. K. Lux. No. 977,664; Dec. 6; Sp. p. 551; Gaz. vol. 161; p. 84.
Electric-circuit interrupter. F. W. Harris. No. 963,764; July 12; Sp. p. 1627; Gaz. vol. 156; p. 274.
Electric-circuit interrupter. R. P. Jackson. No. 975,431; Nov. 15; Sp. p. 3026; Gaz. vol. 160; p. 516.
Electric-circuit-protection system. F. W. Harris. No. 975,420; Nov. 15; Sp. p. 3002; Gaz. vol. 160; p. 512.
Electric-circuit switch. F. W. Harris. No. 975,417; Nov. 15; Sp. p. 2997; Gaz. vol. 160; p. 510.
Electric-circuit switch. F. W. Harris. No. 975,419; Nov. 15; Sp. p. 3001; Gaz. vol. 160; p. 511.
Electric circuits, Apparatus for alternating the polarity of current in. G. Babcock. No. 947,781; Feb. 1; Sp. p. 5; Gaz. vol. 151; p. 3.
Electric circuits, Controlling means for. J. K. Lux. No. 966,456; Aug. 9; Sp. p. 1292; Gaz. vol. 157; p. 232.
Electric circuits, Time-limit protective device for. H. W. Cheney. No. 962,817; June 28; Sp. p. 5439; Gaz. vol. 155; p. 951.
Electric conductor, Armored. P. Schröder. No. 956,186; Apr. 26; Sp. p. 5432; Gaz. vol. 153; p. 951.
Electric-conductor brush-holder. F. L. Sessions. No. 972,655; Oct. 11; Sp. p. 2494; Gaz. vol. 159; p. 425.
Electric-conductor conduit. G. A. Lutz. No. 948,865; Feb. 8; Sp. p. 2287; Gaz. vol. 151; p. 389.
Electric-conductor hanger. J. P. Conway and G. Hoffman. No. 960,827; June 7; Sp. p. 1194; Gaz. vol. 155; p. 198.
Electric-conductor terminal. E. Schneider. No. 962,921; June 28; Sp. p. 5635; Gaz. vol. 155; p. 986.
Electric conductors, Connector for. H. G. Weeks. No. 945,995; Jan. 11; Sp. p. 2201; Gaz. vol. 150; p. 365.
Electric conductors, Installation of. E. H. Faile. No. 966,086; Aug. 2; Sp. p. 516; Gaz. vol. 157; p. 84.
Electric conductors, Test-coupling for. P. J. McDonald. No. 966,400; Aug. 2; Sp. p. 1147; Gaz. vol. 157; p. 185.
Electric-conduit fitting. J. C. Vogel. No. 960,744; June 7; Sp. p. 1019; Gaz. vol. 155; p. 172.
Electric-conduit fitting. W. C. Robinson. No. 971,216; Sept. 27; Sp. p. 4430; Gaz. vol. 158; p. 776.
Electric conduits, Connection-box for. J. E. Graybill. No. 954,954; Apr. 12; Sp. p. 2755; Gaz. vol. 153; p. 467.
Electric connecting device. H. C. Wirt. No. 976,532; Nov. 22; Sp. p. 5428; Gaz. vol. 160; p. 917.
Electric connection plug and socket and switch, Combined. W. W. Buckton. No. 978,841; Dec. 20; Sp. p. 3048; Gaz. vol. 161; p. 542.
Electric contact device. A. A. Kent. No. 978,030; Dec. 6; Sp. p. 1306; Gaz. vol. 161; p. 209.
Electric contact-shoe. C. C. Rich. No. 977,401; Nov. 29; Sp. p. 7344; Gaz. vol. 160; p. 1242.
Electric control system. W. M. Chubb. No. 963,867; July 12; Sp. p. 1888; Gaz. vol. 156; p. 310.
Electric controller. A. C. Eastwood and J. S. McKee. No. 947,059; Jan. 18; Sp. p. 4559; Gaz. vol. 150; p. 752.
Electric controller. F. W. Smith and L. Larsen. No. 951,852; Mar. 15; Sp. p. 2831; Gaz. vol. 152; p. 516.
Electric-controller plug. B. F. Gardner. No. 969,265; Sept. 6; Sp. p. 245; Gaz. vol. 158; p. 40.
Electric controllers, Lever-check for. J. Thomas. No. 958,564; May 17; Sp. p. 4684; Gaz. vol. 154; p. 769.
Electric controllers, Loose-motion device for. R. V. Sill. No. 964,819; July 19; Sp. p. 3981; Gaz. vol. 156; p. 662.
Electric-current generator. H. A. Schmidt. No. 971,690; Oct. 4; Sp. p. 372; Gaz. vol. 159; p. 66.
Electric-current interrupter. P. B. Cumings. No. 964,760; July 19; Sp. p. 3859; Gaz. vol. 156; p. 643.
Electric-current mechanical controller. D. L. Lindquist and D. Larson. No. 967,398; Aug. 16; Sp. p. 3354; Gaz. vol. 157; p. 578.
Electric currents, Apparatus for transmitting and utilizing. P. C. Hewitt. No. 955,459; Apr. 19; Sp. p. 3805; Gaz. vol. 153; p. 668.
Electric currents of high periodicity, Apparatus for producing. S. G. Brown. No. 976,778; Nov. 22; Sp. p. 5933; Gaz. vol. 160; p. 1001.
Electric currents, Rectifying. J. J. Montgomery. No. 974,171; Nov. 1; Sp. p. 134; Gaz. vol. 160; p. 25.
Electric currents, System for the generation and distribution of. R. M. Newbold. No. 960,683; June 7; Sp. p. 903; Gaz. vol. 155; p. 150.
Electric currents, Transmitting and utilizing. P. C. Hewitt. No. 955,460; Apr. 19; Sp. p. 3808; Gaz. vol. 153; p. 669.
Electric cut-out. T. E. Murray. No. 949,283; Feb. 15; Sp. p. 3147; Gaz. vol. 151; p. 555.
Electric cut-out. T. E. Murray. No. 951,446; Mar. 8; Sp. p. 1999; Gaz. vol. 152; p. 348.
Electric cut-out. P. T. McNally. No. 954,327; Apr. 5; Sp. p. 1346; Gaz. vol. 153; p. 223.
Electric cut-out. T. E. Murray. No. 956,135; Apr. 26; Sp. p. 5302; Gaz. vol. 153; p. 932.
Electric cut-out. T. E. Murray. No. 961,308; June 14; Sp. p. 2180; Gaz. vol. 155; p. 390.
Electric cut-out. T. E. Murray. No. 970,088; Sept. 13; Sp. p. 2036; Gaz. vol. 158; p. 346.
Electric cut-out. B. M. Walpole. No. 977,058; Nov. 29; Sp. p. 6578; Gaz. vol. 160; p. 1122.
Electric device, Single-phase gas or vapor. P. H. Thomas. No. 951,085; Mar. 1; Sp. p. 1255; Gaz. vol. 152; p. 207.
Electric devices, Operating vapor. P. H. Thomas. No. 973,997; Oct. 25; Sp. p. 5423; Gaz. vol. 159; p. 940.
Electric distribution system. A. W. Gray. No. 949,534; Feb. 15; Sp. p. 3675; Gaz. vol. 151; p. 640.
Electric drill. F. W. King. No. 966,217; Aug. 2; Sp. p. 807; Gaz. vol. 157; p. 127.
Electric drill, Portable. W. C. Hafemeister. No. 956,849; May 3; Sp. p. 763; Gaz. vol. 154; p. 120.
Electric-drop-cord adjuster. W. S. Hull. No. 976,192; Nov. 29; Sp. p. 6896; Gaz. vol. 160; p. 1171.
Electric-drop-light fixture, Adjustable. H. W. Lawrence. No. 971,203; Sept. 27; Sp. p. 4399; Gaz. vol. 158; p. 772.
Electric elevator, Alternating-current. D. Larson. No. 954,035; Apr. 5; Sp. p. 706; Gaz. vol. 153; p. 124.
Electric fixture. G. F. Rush. No. 962,055; June 21; Sp. p. 3783; Gaz. vol. 155; p. 664.
Electric-fixture fitting. E. C. Ruth. No. 956,603; May 3; Sp. p. 211; Gaz. vol. 154; p. 36.
Electric fixtures and the like, Hanger for. V. Bagley. No. 945,074; Jan. 4; Sp. p. 144; Gaz. vol. 150; p. 24.

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Electric fixtures, Outlet-bracket for. N. Hublinger. No. 950,176; Feb. 22; Sp. p. 5089; Gaz. vol. 151; p. 894.
Electric furnace. J. H. Reid. No. 947,849; Feb. 1; Sp. p. 153; Gaz. vol. 151; p. 25.
Electric furnace. C. A. Weeks. No. 949,511; Feb. 15; Sp. p. 3630; Gaz. vol. 151; p. 632.
Electric furnace. A. Helfenstein. No. 949,895; Feb. 22; Sp. p. 4460; Gaz. vol. 151; p. 797.
Electric furnace. J. Thomson. No. 950,877; Mar. 1; Sp. p. 873; Gaz. vol. 152; p. 140.
Electric furnace. J. Thomson. No. 950,879; Mar. 1; Sp. p. 879; Gaz. vol. 152; p. 141.
Electric furnace. J. Thomson. No. 950,880; Mar. 1; Sp. p. 883; Gaz. vol. 152; p. 141.
Electric furnace. J. Thomson. No. 950,881; Mar. 1; Sp. p. 886; Gaz. vol. 152; p. 141.
Electric furnace. J. Thomson. No. 950,882; Mar. 1; Sp. p. 888; Gaz. vol. 152; p. 142.
Electric furnace. F. A. J. Fitz Gerald. No. 950,904; Mar. 1; Sp. p. 929; Gaz. vol. 152; p. 148.
Electric furnace. J. Thomson and F. A. J. Fitz Gerald. No. 951,086; Mar. 1; Sp. p. 1260; Gaz. vol. 152; p. 207.
Electric furnace. E. H. Meyer and J. M. A. Stillesen. No. 955,655; Apr. 19; Sp. p. 4244; Gaz. vol. 153; p. 735.
Electric furnace. H. W. Hixon. No. 957,058; May 3; Sp. p. 1200; Gaz. vol. 154; p. 191.
Electric furnace. H. W. Hixon. No. 957,337; May 10; Sp. p. 1822; Gaz. vol. 154; p. 317.
Electric furnace. H. A. Danne. No. 958,855; May 24; Sp. p. 5314; Gaz. vol. 154; p. 895.
Electric furnace. T. F. Baily. No. 960,773; June 7; Sp. p. 1084; Gaz. vol. 155; p. 181.
Electric furnace. J. W. Evans. No. 960,862; June 7; Sp. p. 1255; Gaz. vol. 155; p. 210.
Electric furnace. J. Härdén. No. 967,908; Aug. 23; Sp. p. 4381; Gaz. vol. 157; p. 772.
Electric furnace. J. Härdén. No. 967,909; Aug. 23; Sp. p. 4384; Gaz. vol. 157; p. 773.
Electric furnace. J. H. Reid. No. 968,079; Aug. 23; Sp. p. 4772; Gaz. vol. 157; p. 830.
Electric furnace. J. E. Hewes. No. 969,622; Sept. 6; Sp. p. 1007; Gaz. vol. 158; p. 161.
Electric furnace. J. Härdén. No. 977,303; Nov. 29; Sp. p. 7100; Gaz. vol. 160; p. 1208.
Electric furnace. C. Féry and C. Langlet. No. 978,146; Dec. 13; Sp. p. 1586; Gaz. vol. 161; p. 281.
Electric furnace. F. von Kügelgen and G. O. Seward. No. 978,171; Dec. 13; Sp. p. 1638; Gaz. vol. 161; p. 289.
Electric furnace. B. Guthrie and J. P. Karch. No. 979,663; Dec. 27; Sp. p. 4848; Gaz. vol. 161; p. 850.
Electric furnace and operating same. J. F. Shawhan. No. 951,458; Mar. 8; Sp. p. 2033; Gaz. vol. 152; p. 352.
Electric furnace and operating the same. A. L. J. Queneau. No. 948,343; Feb. 8; Sp. p. 1171; Gaz. vol. 151; p. 215.
Electric furnace for metallurgical purposes. H. F. D. Schwahn. No. 962,532; June 28; Sp. p. 4847; Gaz. vol. 155; p. 852.
Electric furnace for metallurgical purposes. P. Girod. (Reissue.) No. 13,186; Dec. 27; Sp. p. 6007; Gaz. vol. 161; p. 1022.
Electric furnace for transforming pig-iron into steel. G. Gin. No. 970,700; Sept. 20; Sp. p. 3342; Gaz. vol. 158; p. 574.
Electric-furnace product and making same. G. N. Jeppson and L. E. Saunders. No. 954,808; Apr. 12; Sp. p. 2435; Gaz. vol. 153; p. 416.
Electric furnace with magnetically-rotated charge. H. N. Potter. No. 975,571; Nov. 15; Sp. p. 3332; Gaz. vol. 160; p. 566.
Electric furnace with magnetically-rotated charge. H. N. Potter. No. 975,794; Nov. 15; Sp. p. 3796; Gaz. vol. 160; p. 640.
Electric fusible cut-out. E. Schattner. No. 948,296; Feb. 1; Sp. p. 1071; Gaz. vol. 151; p. 173.
Electric generating-machine. E. M. Fitz. No. 947,279; Jan. 25; Sp. p. 5047; Gaz. vol. 150; p. 853.
Electric generating system, Automatic. M. A. Newstetter. No. 955,984; Apr. 26; Sp. p. 4974; Gaz. vol. 153; p. 879.
Electric generation, distribution, and control, System of. L. Lyndon. No. 948,736; Feb. 8; Sp. p. 2024; Gaz. vol. 151; p. 347.
Electric generation system, Automatic. M. A. Newstetter. No. 955,985; Apr. 26; Sp. p. 4975; Gaz. vol. 153; p. 879.
Electric generation system, Automatic. M. A. Newstetter. No. 955,986; Apr. 26; Sp. p. 4977; Gaz. vol. 153; p. 880.
Electric generator. J. L. Milton. No. 959,954; May 31; Sp. p. 7647; Gaz. vol. 154; p. 1289.
Electric generator and engine, Combined magneto-. F. I. and B. P. Remy. No. 949,634; Feb. 15; Sp. p. 3863; Gaz. vol. 151; p. 673.
Electric generator and motor. C. T. Hibbard. No. 957,209; May 10; Sp. p. 1535; Gaz. vol. 154; p. 271.
Electric generator and motor. D. Kemble. No. 974,497; Nov. 1; Sp. p. 972; Gaz. vol. 160; p. 144.
Electric generator, Dynamo-. G. Lewis. No. 948,817; Feb. 8; Sp. p. 2211; Gaz. vol. 151; p. 374.
Electric generator, Wind-wheel. A. Carlson. No. 967,325; Aug. 16; Sp. p. 3190; Gaz. vol. 157; p. 552.
Electric heater. F. E. Shailor. No. 950,058; Feb. 22; Sp. p. 4856; Gaz. vol. 151; p. 854.
Electric heater. M. McGerry. No. 950,599; Mar. 1; Sp. p. 283; Gaz. vol. 152; p. 47.
Electric heater. J. C. Logan. No. 957,226; May 10; Sp. p. 1580; Gaz. vol. 154; p. 279.
Electric heater. G. E. Stevens. No. 959,399; May 24; Sp. p. 6427; Gaz. vol. 154; p. 1075.
Electric heater. J. F. McElroy. No. 959,872; May 31; Sp. p. 7452; Gaz. vol. 154; p. 1260.
Electric heater. J. C. Royce. No. 960,409; June 7; Sp. p. 351; Gaz. vol. 155; p. 59.
Electric heater. C. D. Haskins. No. 963,892; July 12; Sp. p. 1933; Gaz. vol. 156; p. 317.
Electric heater. A. S. Cubitt. No. 964,759; July 19; Sp. p. 3857; Gaz. vol. 156; p. 642.
Electric heater. H. C. Walter. No. 973,089; Oct. 18; Sp. p. 3480; Gaz. vol. 159; p. 601.
Electric heater. L. F. Parkhurst and H. G. Weeks. No. 975,712; Nov. 15; Sp. p. 3634; Gaz. vol. 160; p. 611.
Electric heater. M. H. Shoenberg. No. 976,405; Nov. 22; Sp. p. 5153; Gaz. vol. 160; p. 875.
Electric heater and cooking apparatus. F. C. Perkins. No. 952,941; Mar. 22; Sp. p. 5072; Gaz. vol. 152; p. 911.
Electric heater, Portable. F. L. Dyer. No. 969,849; Sept. 13; Sp. p. 1536; Gaz. vol. 158; p. 264.
Electric heater, Radiant. R. W. Baker, V. L. King, and H. C. Parker. No. 977,361; Nov. 29; Sp. p. 7236; Gaz. vol. 160; p. 1228.
Electric ignition appliance. A. M. Low. No. 971,908; Oct. 4; Sp. p. 858; Gaz. vol. 159; p. 147.
Electric induction-furnace. C. W. Söderberg. No. 954,827; Apr. 12; Sp. p. 2482; Gaz. vol. 153; p. 423.
Electric iron. F. Trott. No. 952,385; Mar. 15; Sp. p. 3869; Gaz. vol. 152; p. 692.
Electric iron and stove, Combined. B. R. Charles. No. 975,936; Nov. 15; Sp. p. 4084; Gaz. vol. 160; p. 689.
Electric-light button. J. Fortas and J. R. Jackson. No. 967,508; Aug. 16; Sp. p. 3585; Gaz. vol. 157; p. 615.
Electric-light cords, Automatic rewinding device for. G. J. Peacock. No. 973,553; Oct. 25; Sp. p. 4493; Gaz. vol. 159; p. 784.
Electric-light fixture. W. A. Hutton. No. 948,095; Feb. 1; Sp. p. 662; Gaz. vol. 151; p. 107.
Electric-light fixture. E. E. Hayward. No. 965,710; July 26; Sp. p. 5872; Gaz. vol. 156; p. 997.
Electric-light fixtures, Adjustable joint for. E. F. Pierce. No. 973,558; Oct. 25; Sp. p. 4501; Gaz. vol. 159; p. 786.
Electric-light fixtures, Swivel-joint for. G. Vossberg. No. 958,448; May 17; Sp. p. 4466; Gaz. vol. 154; p. 730.
Electric-light-globe holder. A. I. Chandler. No. 971,490; Sept. 27; Sp. p. 4937; Gaz. vol. 158; p. 864.
Electric-light hanger. O. M. White and E. E. Flowers. No 956,245; Apr. 26; Sp. p. 5559; Gaz. vol. 153; p. 969.
Electric-light hanger. W. McCanse. No. 958,269; May 17; Sp. p. 3952; Gaz. vol. 154; p. 666.
Electric-light hanger. J. P. Watson. No. 963,671; July 5; Sp. p. 1410; Gaz. vol. 156; p. 221.
Electric-light hanger. E. H. Weber. No. 963,673; July 5; Sp. p. 1412; Gaz. vol. 156; p. 221.
Electric-light hanger. N. McLeod. No. 974,687; Nov. 1; Sp. p. 1385; Gaz. vol. 160; p. 215.
Electric light, Portable. J. Block. No. 971,241; Sept. 27; Sp. p. 4483; Gaz. vol. 158; p. 784.
Electric-light receptacle. H. D. Brown and L. W. Blymyer. No. 979,927; Dec. 27; Sp. p. 5430; Gaz. vol. 161; p. 938.
Electric-light shade, Adjustable. D. D. Lockwood. No. 961,973; June 21; Sp. p. 3609; Gaz. vol. 155; p. 635.
Electric-light socket. W. H. Walters. No. 970,581; Sept. 20; Sp. p. 3064; Gaz. vol. 158; p. 534.
Electric-light sockets, Switch for. C. D. Gervin. No. 967,753; Aug. 16; Sp. p. 4072; Gaz. vol. 157; p. 697.
Electric-light support. T. Gray. No. 971,192; Sept. 27; Sp. p. 4376; Gaz. vol. 158; p. 768.
Electric-light-supporting bracket. J. P. Hebendahl. No. 952,521; Mar. 22; Sp. p. 4165; Gaz. vol. 152; p. 766.
Electric lights, Key-turner for. B. English. No. 963,535; July 5; Sp. p. 1153; Gaz. vol. 156; p. 176.
Electric lights, Socket-shell and globe-holder for. E. S. Sanderson. No. 977,553; Dec. 6; Sp. p. 315; Gaz. vol. 161; p. 47.
Electric lighter. W. Voltz. No. 951,159; Mar. 8; Sp. p. 1409; Gaz. vol. 152; p. 255.
Electric-lighting apparatus. J. F. McElroy. No. 978,388; Dec. 13; Sp. p. 2106; Gaz. vol. 161; p. 367.
Electric-lighting device. J. Scharr. No. 946,922; Jan. 18; Sp. p. 4310; Gaz. vol. 150; p. 707.
Electric-lighting fixture. L. R. Hopton. No. 978,163; Dec. 13; Sp. p. 1621; Gaz. vol. 161; p. 287.
Electric-lighting system for railway and other carriages, Voltage-regulated. J. Dalziel. No. 977,074; Nov. 29; Sp. p. 6620; Gaz. vol. 160; p. 1129.
Electric-line construction. H. P. Davis and T. Varney. No. 946,537; Jan. 18; Sp. p. 3443; Gaz. vol. 150; p. 578.
Electric machine. G. O. Holmgren. No. 955,268; Apr. 19; Sp. p. 3396; Gaz. vol. 153; p. 604.
Electric machine, Alternating-current dynamo-. M. Milch. No. 977,821; Dec. 6; Sp. p. 871; Gaz. vol. 161; p. 137.
Electric-machine brush, Dynamo-. E. T. Mug. No. 969,796; Sept. 13; Sp. p. 1396; Gaz. vol. 158; p. 245.
Electric-machine brush, Dynamo-. H. L. Zabriskie. No. 973,836; Oct. 25; Sp. p. 5080; Gaz. vol. 159; p. 883.

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Electric-machine brush-holder, Dynamo-. H. A. Balcome. No. 972,799; Oct. 18; Sp. p. 2795; Gaz. vol. 159; p. 499.
Electric machine, Dynamo-. E. M. Tingley. No. 945,425; Jan. 4; Sp. p. 909; Gaz. vol. 150; p. 142.
Electric machine, Dynamo-. J. W. Burleigh. No. 946,105; Jan. 11; Sp. p. 2412; Gaz. vol. 150; p. 401.
Electric machine, Dynamo-. R. Flagg. No. 946,212; Jan. 11; Sp. p. 2639; Gaz. vol. 150; p. 439.
Electric machine, Dynamo-. L. E. Underwood and S. R. Bergman. No. 946,813; Jan. 18; Sp. p. 4040; Gaz. vol. 150; p. 670.
Electric machine, Dynamo-. B. G. Lamme. No. 947,389; Jan. 25; Sp. p. 5303; Gaz. vol. 150; p. 891.
Electric machine, Dynamo-. E. C. Wright. No. 949,106; Feb. 15; Sp. p. 2795; Gaz. vol. 151; p. 495.
Electric machine, Dynamo-. H. G. Reist. No. 949,305; Feb. 15; Sp. p. 3191; Gaz. vol. 151; p. 563.
Electric machine, Dynamo-. E. F. W. Alexanderson. No. 949,345; Feb. 15; Sp. p. 3293; Gaz. vol. 151; p. 577.
Electric machine, Dynamo-. L. A. Hawkins. No. 953,202; Mar. 29; Sp. p. 5645; Gaz. vol. 152; p. 1026.
Electric machine, Dynamo-. C. A. Psilander and T. S. Scott. No. 956,543; May 3; Sp. p. 82; Gaz. vol. 154; p. 15.
Electric machine, Dynamo-. E. M. Tingley. No. 956,549; May 3; Sp. p. 92; Gaz. vol. 154; p. 17.
Electric machine, Dynamo-. J. E. Webster and J. L. Davis. No. 956,554; May 3; Sp. p. 99; Gaz. vol. 154; p. 18.
Electric machine, Dynamo-. F. B. Howell. No. 956,855; May 3; Sp. p. 780; Gaz. vol. 154; p. 123.
Electric machine, Dynamo-. J. E. Noeggerath. No. 957,242; May 10; Sp. p. 1607; Gaz. vol. 154; p. 284.
Electric machine, Dynamo-. W. D. Pomeroy. No. 957,249; May 10; Sp. p. 1620; Gaz. vol. 154; p. 286.
Electric machine, Dynamo-. E. M. Tingley. No. 959,651; May 31; Sp. p. 6970; Gaz. vol. 154; p. 1186.
Electric machine, Dynamo-. L. E. Underwood and C. P. Smith. No. 959,901; May 31; Sp. p. 7513; Gaz. vol. 154; p. 1270.
Electric machine, Dynamo-. J. E. Noeggerath. No. 959,959; May 31; Sp. p. 7657; Gaz. vol. 154; p. 1291.
Electric machine, Dynamo-. J. E. Noeggerath. No. 960,383; June 7; Sp. p. 297; Gaz. vol. 155; p. 50.
Electric machine, Dynamo-. L. E. Underwood. No. 960,449; June 7; Sp. p. 415; Gaz. vol. 155; p. 70.
Electric machine, Dynamo-. M. Walker. No. 962,683; June 28; Sp. p. 5161; Gaz. vol. 155; p. 903.
Electric machine, Dynamo-. J. P. Feeney. No. 964,630; July 19; Sp. p. 3492; Gaz. vol. 156; p. 597.
Electric machine, Dynamo-. B. A. Behrend. No. 964,742; July 19; Sp. p. 3826; Gaz. vol. 156; p. 637.
Electric machine, Dynamo-. J. P. Feeney. No. 964,770; July 19; Sp. p. 3891; Gaz. vol. 156; p. 646.
Electric machine, Dynamo-. H. G. Reist. No. 968,420; Aug. 23; Sp. p. 5495; Gaz. vol. 157; p. 947.
Electric machine, Dynamo-. F. C. Hall. No. 969,472; Sept. 6; Sp. p. 678; Gaz. vol. 158; p. 107.
Electric machine, Dynamo-. J. L. Davis. No. 969,608; Sept. 6; Sp. p. 982; Gaz. vol. 158; p. 156.
Electric machine, Dynamo-. E. Mattman. No. 969,790; Sept. 13; Sp. p. 1388; Gaz. vol. 158; p. 243.
Electric machine, Dynamo-. A. J. Brown. No. 970,786; Sept. 20; Sp. p. 3539; Gaz. vol. 158; p. 605.
Electric machine, Dynamo-. A. S. Hubbard. No. 970,827; Sept. 20; Sp. p. 3638; Gaz. vol. 158; p. 621.
Electric machine, Dynamo-. R. B. Williamson. No. 971,868; Oct. 4; Sp. p. 763; Gaz. vol. 159; p. 132.
Electric machine, Dynamo-. R. B. Williamson. No. 971,869; Oct. 4; Sp. p. 765; Gaz. vol. 159; p. 132.
Electric machine, Dynamo-. C. E. Search. No. 972,929; Oct. 18; Sp. p. 3134; Gaz. vol. 159; p. 548.
Electric machine, Dynamo-. R. B. Williamson. No. 976,420; Nov. 22; Sp. p. 5178; Gaz. vol. 160; p. 880.
Electric machine, Dynamo-. W. H. Powell. No. 977,220; Nov. 29; Sp. p. 6943; Gaz. vol. 160; p. 1180.
Electric machine, Dynamo-. J. B. Wiard. No. 977,768; Dec. 6; Sp. p. 772; Gaz. vol. 161; p. 119.
Electric machine for the production of continuous and alternating currents, Dynamo-. J. Schürch. No. 966,246; Aug. 2; Sp. p. 860; Gaz. vol. 157; p. 137.
Electric machine, Inclosed dynamo-. A. H. Wouters. No. 977,250; Nov. 29; Sp. p. 7004; Gaz. vol. 160; p. 1191.
Electric machine, Magneto-. S. B. Daugherty and S. F. Johnson. No. 975,401; Nov. 15; Sp. p. 2973; Gaz. vol. 160; p. 505.
Electric-machine speed regulation, Dynamo-. C. Renshaw. No. 974,433; Nov. 1; Sp. p. 805; Gaz. vol. 160; p. 121.
Electric-machine ventilating means, Dynamo-. A. Kingsbury. No. 959,550; May 24; Sp. p. 6775; Gaz. vol. 154; p. 1152.
Electric machines and the like, Brush for dynamo-. E. O. Schweitzer. No. 974,833; Nov. 8; Sp. p. 1697; Gaz. vol. 160; p. 285.
Electric machines, Armature-winding coil for dynamo-. J. D. Forrer. No. 957,877; May 17; Sp. p. 2922; Gaz. vol. 154; p. 529.
Electric machines, Armature-winding for dynamo-. N. W. Storer. No. 975,476; Nov. 15; Sp. p. 3118; Gaz. vol. 160; p. 533.
Electric machines, Armature-winding for dynamo-. N. W. Storer. No. 975,477; Nov. 15; Sp. p. 3119; Gaz. vol. 160; p. 533.
Electric machines, Armature-winding for dynamo-. N. W. Storer. No. 975,478; Nov. 15; Sp. p. 3121; Gaz. vol. 160; p. 533.
Electric machines, Brush-holder for dynamo-. W. T. Hensley. No. 949,072; Feb. 15; Sp. p. 2725; Gaz. vol. 151; p. 484.
Electric machines, Brush-holder for dynamo-. E. M. Tingley. No. 956,548; May 3; Sp. p. 90; Gaz. vol. 154; p. 16.
Electric machines, Brush-holder for dynamo-. C. B. Auel. No. 956,666; May 3; Sp. p. 344; Gaz. vol. 154; p. 57.
Electric machines, Brush-holder for dynamo-. C. E. Johnson. No. 960,095; May 31; Sp. p. 7965; Gaz. vol. 154; p. 1338.
Electric machines, Coil for dynamo-. G. Chovan. No. 957,866; May 17; Sp. p. 2896; Gaz. vol. 154; p. 525.
Electric machines, Coil for dynamo-. J. D. Forrer. No. 957,876; May 17; Sp. p. 2921; Gaz. vol. 154; p. 529.
Electric machines, Coil for dynamo-. W. T. Hensley. No. 957,882; May 17; Sp. p. 2931; Gaz. vol. 154; p. 531.
Electric machines, Coil-shield for dynamo-. J. E. Webster and F. Duff. No. 956,553; May 3; Sp. p. 98; Gaz. vol. 154; p. 18.
Electric machines, Coil-support for dynamo-. B. A. Behrend. No. 971,820; Oct. 4; Sp. p. 643; Gaz. vol. 159; p. 113.
Electric machines, Coil-supporting structure for dynamo-. J. T. Roberts. No. 967,240; Aug. 16; Sp. p. 3025; Gaz. vol. 157; p. 523.
Electric machines, Field-winding coil for dynamo-. W. T. Hensley. No. 975,425; Nov. 15; Sp. p. 3009; Gaz. vol. 160; p. 513.
Electric machines, Inductance-neutralizing coil-wound core and commutating impedance-coil for. W. E. Goldsborough. No. 952,899; Mar. 22; Sp. p. 4986; Gaz. vol. 152; p. 897.
Electric machines, Means for cooling dynamo-. H. Roos. No. 957,102; May 3; Sp. p. 1291; Gaz. vol. 154; p. 205.
Electric machines, Means for cooling dynamo-. H. Roos. No. 957,103; May 3; Sp. p. 1293; Gaz. vol. 154; p. 205.
Electric machines, Means for ventilating dynamo-. H. G. Reist. No. 973,565; Oct. 25; Sp. p. 4513; Gaz. vol. 159; p. 788.
Electric machines, Protection apparatus for dynamo-. R. H. Marriott. No. 978,607; Dec. 13; Sp. p. 2598; Gaz. vol. 161; p. 442.
Electric machines, Rotary field member of dynamo-. A. M. Gray. No. 972,850; Oct. 18; Sp. p. 2914; Gaz. vol. 159; p. 518.
Electric machines, Rotor of dynamo-. R. S. McLeod. No. 965,925; Aug. 2; Sp. p. 161; Gaz. vol. 157; p. 28.
Electric machines, System for the operation of dynamo-. B. G. Lamme. No. 977,641; Dec. 6; Sp. p. 506; Gaz. vol. 161; p. 76.
Electric machines, System of operation for dynamo-. B. G. Lamme. No. 977,640; Dec. 6; Sp. p. 500; Gaz. vol. 161; p. 76.
Electric machinery, Cooling of inclosed dynamo-. P. Amsler. No. 953,574; Mar. 29; Sp. p. 6452; Gaz. vol. 152; p. 1153.
Electric machinery, Dynamo-. D. W. Troy. No. 979,603; Dec. 27; Sp. p. 4728; Gaz. vol. 161; p. 830.
Electric machinery, Regulation of dynamo-. C. A. Parsons and A. H. Law. No. 978,638; Dec. 13; Sp. p. 2660; Gaz. vol. 161; p. 452.
Electric machinery, Winding for. H. and E. Rosenberg. No. 954,468; Apr. 12; Sp. p. 1642; Gaz. vol. 153; p. 298.
Electric meter. G. A. Scheeffer. No. 950,079; Feb. 22; Sp. p. 4889; Gaz. vol. 151; p. 860.
Electric meter. C. E. J. O'Keenan. No. 957,792; May 10; Sp. p. 2746; Gaz. vol. 154; p. 470.
Electric meter. J. Harris. No. 970,498; Sept. 20; Sp. p. 2884; Gaz. vol. 158; p. 504.
Electric meter. G. A. Sawin. No. 974,192; Nov. 1; Sp. p. 199; Gaz. vol. 160; p. 33.
Electric-meter-service protective apparatus. R. C. Cole. No. 950,316; Feb. 22; Sp. p. 5376; Gaz. vol. 151; p. 943.
Electric meters, Field system for motor. C. W. J. Busch. No. 947,515; Jan. 25; Sp. p. 5622; Gaz. vol. 150; p. 934.
Electric metering system. M. O. Troy. No. 963,096; July 5; Sp. p. 161; Gaz. vol. 156; p. 24.
Electric motor. H. Müller. No. 953,219; Mar. 29; Sp. p. 5676; Gaz. vol. 152; p. 1031.
Electric motor. C. E. Avery. No. 958,354; May 17; Sp. p. 4281; Gaz. vol. 154; p. 698.
Electric motor. F. L. Sessions. No. 965,543; July 26; Sp. p. 5519; Gaz. vol. 156; p. 939.
Electric motor. E. Arnold and J. L. La Cour. No. 970,412; Sept. 13; Sp. p. 2685; Gaz. vol. 158; p. 454.
Electric motor. E. S. Pillsbury. No. 973,878; Oct. 25; Sp. p. 5172; Gaz. vol. 159; p. 898.
Electric motor. C. Backer. No. 979,637; Dec. 27; Sp. p. 4797; Gaz. vol. 161; p. 842.
Electric motor and controlling system. F. B. Rae. No. 979,094; Dec. 20; Sp. p. 3614; Gaz. vol. 161; p. 631.
Electric motor, generator, and other apparatus. R. D. Mershon. No. 953,749; Apr. 5; Sp. p. 135; Gaz. vol. 153; p. 26.

Alphabetical list of inventions—Continued.

Electric oscillations, Apparatus for generating undamped. S. Eisenstein. No. 950,257; Feb. 22; Sp. p. 5265; Gaz. vol. 151; p. 923.
Electric oscillations, Instrument for detecting. J. A. Fleming. No. 954,619; Apr. 12; Sp. p. 1970; Gaz. vol. 153; p. 349.
Electric plug. R. R. Lang. No. 957,891; May 17; Sp. p. 2955; Gaz. vol. 154; p. 534.
Electric plug and socket. L. W. Kutsch. No. 975,875; Nov. 15; Sp. p. 3958; Gaz. vol. 160; p. 667.
Electric pressure-ratio indicator. A. W. K. Billings. No. 965,274; July 26; Sp. p. 4901; Gaz. vol. 156; p. 846.
Electric receptacle. N. Marshall. No. 954,642; Apr. 12; Sp. p. 2033; Gaz. vol. 153; p. 358.
Electric rosette. J. S. Crossley. No. 957,547; May 10; Sp. p. 2244; Gaz. vol. 154; p. 388.
Electric safety-switch. C. D. Platt. No. 968,796; Aug. 30; Sp. p. 6329; Gaz. vol. 157; p. 1103.
Electric selector and signaling apparatus. W. W. Alexander. No. 965,793; July 26; Sp. p. 6045; Gaz. vol. 156; p. 1025.
Electric service-meter. O. C. Dennis. No. 966,809; Aug. 9; Sp. p. 2117; Gaz. vol. 157; p. 351.
Electric service-wires, Insulated distributer for. J. B. Ashley. No. 964,737; July 19; Sp. p. 3819; Gaz. vol. 156; p. 635.
Electric snap-switch. G. E. Stevens. No. 951,347; Mar. 8; Sp. p. 1798; Gaz. vol. 152; p. 316.
Electric snap-switch, Four-way. W. S. Mayer. No. 948,564; Feb. 8; Sp. p. 1658; Gaz. vol. 151; p. 289.
Electric sparking device. J. A. and B. A. Jeffery. No. 963,711; July 5; Sp. p. 1503; Gaz. vol. 156; p. 234.
Electric sparking devices, Circuit-interrupter for. J. E. Seeley. No. 961,902; June 21; Sp. p. 3454; Gaz. vol. 155; p. 611.
Electric street-lighting. C. H. Froelich. No. 979,459; Dec. 27; Sp. p. 4405; Gaz. vol. 161; p. 779.
Electric switch. F. E. Hilliard. No. 945,535; Jan. 4; Sp. p. 1141; Gaz. vol. 150; p. 176.
Electric switch. D. G. Butts. No. 948,441; Feb. 8; Sp. p. 1388; Gaz. vol. 151; p. 247.
Electric switch. C. J. Klein. No. 949,123; Feb. 15; Sp. p. 2834; Gaz. vol. 151; p. 501.
Electric switch. L. P. Coulter. No. 949,263; Feb. 15; Sp. p. 3110; Gaz. vol. 151; p. 548.
Electric switch. D. E. Lee. No. 949,799; Feb. 22; Sp. p. 4219; Gaz. vol. 151; p. 762.
Electric switch. H. C. Robinson. No. 950,305; Feb. 22; Sp. p. 5355; Gaz. vol. 151; p. 940.
Electric switch. F. W. Smith. No. 951,851; Mar. 15; Sp. p. 2829; Gaz. vol. 152; p. 516.
Electric switch. F. E. Case. No. 953,021; Mar. 29; Sp. p. 5238; Gaz. vol. 152; p. 966.
Electric switch. J. G. Peterson. No. 954,462; Apr. 12; Sp. p. 1632; Gaz. vol. 153; p. 296.
Electric switch. J. H. Champ and T. H. Schutt. No. 956,679; May 3; Sp. p. 374; Gaz. vol. 154; p. 62.
Electric switch. E. M. Coffin. (Reissue.) No. 13,114; May 10; Sp. p. 2879; Gaz. vol. 154; p. 495.
Electric switch. F. L. Collins and E. A. Hults. No. 958,598; May 17; Sp. p. 4752; Gaz. vol. 154; p. 780.
Electric switch. J. F. McElroy. No. 959,248; May 24; Sp. p. 6138; Gaz. vol. 154; p. 1025.
Electric switch. W. D. R. MacDiarmid. No. 959,769; May 31; Sp. p. 7214; Gaz. vol. 154; p. 1224.
Electric switch. E. M. Hewlett. No. 960,324; June 7; Sp. p. 162; Gaz. vol. 155; p. 31.
Electric switch. L. Larsen. No. 961,242; June 14; Sp. p. 2031; Gaz. vol. 155; p. 366.
Electric switch. H. C. Grant. No. 961,693; June 14; Sp. p. 2989; Gaz. vol. 155; p. 518.
Electric switch. J. L. Creveling. No. 963,996; July 12; Sp. p. 2153; Gaz. vol. 156; p. 352.
Electric switch. W. S. McLewee. No. 964,536; July 19; Sp. p. 3282; Gaz. vol. 156; p. 564.
Electric switch. C. F. Lewis. No. 964,798; July 19; Sp. p. 3944; Gaz. vol. 156; p. 655.
Electric switch. W. M. Scott. No. 965,234; July 26; Sp. p. 4811; Gaz. vol. 156; p. 832.
Electric switch. H. R. Hirst. No. 966,207; Aug. 2; Sp. p. 790; Gaz. vol. 157; p. 124.
Electric switch. J. F. Smiley. No. 966,252; Aug. 2; Sp. p. 877; Gaz. vol. 157; p. 139.
Electric switch. J. H. Wright. No. 966,286; Aug. 2; Sp. p. 941; Gaz. vol. 157; p. 149.
Electric switch. J. Keefe. No. 967,932; Aug. 23; Sp. p. 4433; Gaz. vol. 157; p. 780.
Electric switch. B. C. Webster. No. 969,581; Sept. 6; Sp. p. 920; Gaz. vol. 158; p. 147.
Electric switch. G. S. Williamson. No. 969,824; Sept. 13; Sp. p. 1477; Gaz. vol. 158; p. 255.
Electric switch. F. W. Smith. No. 970,963; Sept. 20; Sp. p. 3883; Gaz. vol. 158; p. 663.
Electric switch. G. B. Thomas. No. 971,419; Sept. 27; Sp. p. 4807; Gaz. vol. 158; p. 841.
Electric switch. W. S. Mayer. No. 971,623; Oct. 4; Sp. p. 245; Gaz. vol. 159; p. 43.
Electric switch. S. P. Watson. No. 971,648; Oct. 4; Sp. p. 286; Gaz. vol. 159; p. 51.
Electric switch. L. W. Horting. No. 971,843; Oct. 4; Sp. p. 697; Gaz. vol. 159; p. 123.
Electric switch. M. Guett. No. 972,365; Oct. 11; Sp. p. 1844; Gaz. vol. 159; p. 323.
Electric switch. E. K. Mackintosh and E. A. Smith. No. 973,362; Oct. 18; Sp. p. 4067; Gaz. vol. 159; p. 696.
Electric switch. W. M. Scott. No. 974,528; Nov. 1; Sp. p. 1041; Gaz. vol. 160; p. 156.
Electric switch. J. H. Wooll. No. 976,422; Nov. 22; Sp. p. 5182; Gaz. vol. 160; p. 880.
Electric switch. P. L. Sibole. No. 977,140; Nov. 29; Sp. p. 6776; Gaz. vol. 160; p. 1152.
Electric switch. J. A. Ward. No. 979,050; Dec. 20; Sp. p. 3527; Gaz. vol. 161; p. 617.
Electric switch. G. Sweetser. No. 979,354; Dec. 20; Sp. p. 4182; Gaz. vol. 161; p. 722.
Electric switch. R. D. Snyder. No. 979,894; Dec. 27; Sp. p. 5367; Gaz. vol. 161; p. 928.
Electric switch, Pendent. F. E. Seeley. No. 962,923; June 28; Sp. p. 5638; Gaz. vol. 155; p. 987.
Electric switch, Time-controlled. F. M. Tottingham. No. 961,558; June 14; Sp. p. 2723; Gaz. vol. 155; p. 473.
Electric switches, Movable contact for. C. G. Perkins. No. 946,685; Jan. 18; Sp. p. 3744; Gaz. vol. 150; p. 625.
Electric switches, Pull-socket for. F. Barr. No. 958,988; May 24; Sp. p. 5591; Gaz. vol. 154; p. 940.
Electric switches, Terminal for push-button. N. Marshall. No. 954,448; Apr. 12; Sp. p. 1586; Gaz. vol. 153; p. 291.
Electric system, Vapor. C. P. Steinmetz. No. 945,991; Jan. 11; Sp. p. 2194; Gaz. vol. 150; p. 364.
Electric terminal. E. Gerhardt, Jr. No. 967,631; Aug. 16; Sp. p. 3822; Gaz. vol. 157; p. 656.
Electric terminal clip. W. Barcy. No. 955,747; Apr. 19; Sp. p. 4445; Gaz. vol. 153; p. 767.
Electric time-switch. G. Lüthi. No. 952,123; Mar. 15; Sp. p. 3360; Gaz. vol. 152; p. 605.
Electric time-switch. C. E. Bunker. No. 962,307; June 21; Sp. p. 4339; Gaz. vol. 155; p. 749.
Electric time-switch. J. De Lorenzo. No. 964,289; July 12; Sp. p. 2743; Gaz. vol. 156; p. 453.
Electric time-switch mechanism. W. C. Blundell. No. 945,013; Jan. 4; Sp. p. 5; Gaz. vol. 150; p. 3.
Electric time-switch mechanism. A. B. Shaw. No. 952,953; Mar. 22; Sp. p. 5096; Gaz. vol. 152; p. 915.
Electric-tool switch. L. A. Hauck. No. 967,190; Aug. 16; Sp. p. 2932; Gaz. vol. 157; p. 507.
Electric transportation, Aerial. O. J. Davy. No. 961,430; June 14; Sp. p. 2440; Gaz. vol. 155; p. 430.
Electric vapor apparatus, Means for suppressing the resistance of the negative-electrode flame in. P. C. Hewitt. No. 954,434; Apr. 12; Sp. p. 1553; Gaz. vol. 153; p. 286.
Electric variations, Apparatus for strengthening. S. Eisenstein. No. 965,884; Aug. 2; Sp. p. 71; Gaz. vol. 157; p. 14.
Electric ventilator. W. Mehlhose. No. 955,089; Apr. 12; Sp. p. 3009; Gaz. vol. 153; p. 510.
Electric-wire coupling. A. H. Hesterhagen. No. 964,969; July 19; Sp. p. 4285; Gaz. vol. 156; p. 715.
Electric-wire terminal. A. R. Mosler. No. 954,872; Apr. 12; Sp. p. 2585; Gaz. vol. 153; p. 440.
Electric wires, Apparatus for coating. O. C. Spurling. No. 968,205; Aug. 23; Sp. p. 5055; Gaz. vol. 157; p. 872.
Electric wires, Combined junction and terminal box for. F. C. Woods. No. 954,842; Apr. 12; Sp. p. 2514; Gaz. vol. 153; p. 428.
Electric wires, Universal floor-box for the distribution of. J. Fountain, Jr. No. 974,370; Nov. 1; Sp. p. 663; Gaz. vol. 160; p. 99.
Electric wiring, Slack-spool for. H. Van Altena. No. 963,666; July 5; Sp. p. 1401; Gaz. vol. 156; p. 219.
Electrical apparatus. R. A. Fessenden. No. 962,017; June 21; Sp. p. 3691; Gaz. vol. 155; p. 649.
Electrical apparatus. C. Aalborg. No. 962,689; June 28; Sp. p. 5182; Gaz. vol. 155; p. 905.
Electrical apparatus. H. T. Olsen. No. 968,594; Aug. 30; Sp. p. 5865; Gaz. vol. 157; p. 1034.
Electrical apparatus, Cable-controller for. R. J. F. S. Baron. No. 972,319; Oct. 11; Sp. p. 1747; Gaz. vol. 159; p. 307.
Electrical-apparatus controlling device. E. F. G. H. Faure. No. 979,143; Dec. 20; Sp. p. 3763; Gaz. vol. 161; p. 651.
Electrical apparatus, Device for testing. H. B. Lehman. No. 975,879; Nov. 15; Sp. p. 3970; Gaz. vol. 160; p. 669.
Electrical apparatus, Swiveling attachment device for. J. H. Morley. No. 972,209; Oct. 11; Sp. p. 1518; Gaz. vol. 159; p. 270.
Electrical-apparatus terminal. W. B. Potter. No. 973,560; Oct. 25; Sp. p. 4505; Gaz. vol. 159; p. 786.
Electrical-circuit breaker. H. R. Stuart. No. 973,889; Oct. 25; Sp. p. 5196; Gaz. vol. 159; p. 902.
Electrical-circuit protector. R. Wiesinger. No. 946,413; Jan. 11; Sp. p. 3169; Gaz. vol. 150; p. 510.
Electrical-circuit protector. C. A. Rolfe. No. 951,259; Mar. 8; Sp. p. 1605; Gaz. vol. 152; p. 287.
Electrical circuits, Circuit-closing plug for. C. H. Thordarson. No. 966,139; Aug. 2; Sp. p. 610; Gaz. vol. 157; p. 101.
Electrical circuits, Means for protecting. P. MacGahan. No. 977,648; Dec. 6; Sp. p. 518; Gaz. vol. 161; p. 78.

Electrical circuits, Multiple fusible cut-out for. A. E. Partington. No. 975,569; Nov. 15; Sp. p. 3329; Gaz. vol. 160; p. 565.
Electrical circuits, Protective device for. P. MacGahan. No. 977,649; Dec. 6; Sp. p. 521; Gaz. vol. 161; p. 79.
Electrical circuits, Protective means for. C. F. Scott. No. 969,498; Sept. 6; Sp. p. 735; Gaz. vol. 158; p. 116.
Electrical circuits, Protective safety device for. W. F. Swoveland. No. 978,676; Dec. 13; Sp. p. 2730; Gaz. vol. 161; p. 465.
Electrical conductor. C. A. Keller. No. 961,139; June 14; Sp. p. 1809; Gaz. vol. 155; p. 328.
Electrical-conductor connector. J. C. Vogel. No. 953,934; Apr. 5; Sp. p. 495; Gaz. vol. 153; p. 90.
Electrical conductor for illuminating purposes. I. Ladoff. No. 955,273; Apr. 19; Sp. p. 3405; Gaz. vol. 153; p. 606.
Electrical-conductor hanger. W. Schaake. No. 958,834; May 24; Sp. p. 5266; Gaz. vol. 154; p. 887.
Electrical-conductor plug. J. W. Phelps. No. 978,199; Dec. 13; Sp. p. 1700; Gaz. vol. 161; p. 299.
Electrical-conductor switchboard. J. F. Skirrow. No. 963,480; July 5; Sp. p. 1035; Gaz. vol. 156; p. 157.
Electrical conductors, Device for preventing induction in. M. M. Davis. No. 955,142; Apr. 19; Sp. p. 3120; Gaz. vol. 153; p. 560.
Electrical conductors, Making armored. G. A. Lutz. No. 969,712; Sept. 6; Sp. p. 1176; Gaz. vol. 158; p. 191.
Electrical-conduit attachment. A. McMurtrie. No. 975,777; Nov. 15; Sp. p. 3769; Gaz. vol. 160; p. 634.
Electrical connection. M. J. Wohl and H. Hertzberg. No. 962,071; June 21; Sp. p. 3820; Gaz. vol. 155; p. 669.
Electrical connection-plug. A. N. Dods. No. 950,899; Mar. 1; Sp. p. 921; Gaz. vol. 152; p. 147.
Electrical connections, Junction-box, receptacle, and plug for. W. A. Hopkins. No. 965,187; July 26; Sp. p. 4718; Gaz. vol. 156; p. 817.
Electrical connector. S. B. Perkins. No. 947,754; Jan. 25; Sp. p. 6072; Gaz. vol. 150; p. 1013.
Electrical connector. F. L. Washburn and G. E. Lawrence. No. 959,977; May 31; Sp. p. 7697; Gaz. vol. 154; p. 1297.
Electrical connector. J. J. Burns. No. 975,118; Nov. 8; Sp. p. 2356; Gaz. vol. 160; p. 384.
Electrical contact. W. F. Taylor. No. 953,306; Mar. 29; Sp. p. 5859; Gaz. vol. 152; p. 1059.
Electrical contact. G. W. Goodridge. No. 965,103; July 19; Sp. p. 4551; Gaz. vol. 156; p. 739.
Electrical controller. F. L. Sessions. No. 949,333; Feb. 15; Sp. p. 3256; Gaz. vol. 151; p. 572.
Electrical controller. C. E. Bedell. No. 969,515; Sept. 6; Sp. p. 771; Gaz. vol. 158; p. 121.
Electrical controllers and switches, Contact-finger for. R. C. Lyness. No. 977,460; Dec. 6; Sp. p. 68; Gaz. vol. 161; p. 13.
Electrical coupling. C. H. Bissell. No. 974,462; Nov. 1; Sp. p. 890; Gaz. vol. 160; p. 131.
Electrical coupling and switch. R. H. Wappler. No. 975,090; Nov. 8; Sp. p. 2285; Gaz. vol. 160; p. 373.
Electrical cut-out. P. J. McDonald. No. 954,537; Apr. 12; Sp. p. 1795; Gaz. vol. 153; p. 322.
Electrical cut-out. J. L. Burton. No. 978,004; Dec. 6; Sp. p. 1255; Gaz. vol. 161; p. 201.
Electrical cut-out device. R. P. Jackson. No. 967,388; Aug. 16; Sp. p. 3333; Gaz. vol. 157; p. 575.
Electrical distributing-board. H. J. Blakeslee. No. 955,126; Apr. 19; Sp. p. 3085; Gaz. vol. 153; p. 554.
Electrical distribution, Appliance for systems of. G. A. Lutz. No. 948,819; Feb. 8; Sp. p. 2215; Gaz. vol. 151; p. 375.
Electrical distribution system. A. S. Hubbard. No. 946,045; Jan. 11; Sp. p. 2297; Gaz. vol. 150; p. 382.
Electrical distribution system. A. S. Hubbard. No. 952,332; Mar. 15; Sp. p. 3775; Gaz. vol. 152; p. 675.
Electrical distribution system. W. A. Turbayne. No. 954,599; Apr. 12; Sp. p. 1926; Gaz. vol. 153; p. 342.
Electrical distribution system. J. L. Woodbridge. No. 955,447; Apr. 19; Sp. p. 3776; Gaz. vol. 153; p. 663.
Electrical distribution system. A. S. Hubbard. No. 956,353; Apr. 26; Sp. p. 5779; Gaz. vol. 153; p. 1005.
Electrical distribution system. W. A. Turbayne. No. 957,523; May 10; Sp. p. 2193; Gaz. vol. 154; p. 379.
Electrical distribution system. W. E. Winship. No. 957,530; May 10; Sp. p. 2207; Gaz. vol. 154; p. 382.
Electrical distribution system. G. E. Palmer. No. 961,313; June 14; Sp. p. 2202; Gaz. vol. 155; p. 391.
Electrical distribution system. W. A. Turbayne. No. 962,106; June 21; Sp. p. 3907; Gaz. vol. 155; p. 681.
Electrical distribution system. W. A. Turbayne. No. 963,339; July 5; Sp. p. 751; Gaz. vol. 156; p. 109.
Electrical distribution system. J. L. Woodbridge. No. 964,830; July 19; Sp. p. 4001; Gaz. vol. 156; p. 666.
Electrical distribution system. W. H. Clarke. No. 966,526; Aug. 9; Sp. p. 1487; Gaz. vol. 157; p. 256.
Electrical distribution system. W. A. Turbayne. No. 969,007; Aug. 30; Sp. p. 6742; Gaz. vol. 157; p. 1175.
Electrical distribution system. W. A. Turbayne. No. 969,008; Aug. 30; Sp. p. 6745; Gaz. vol. 157; p. 1175.
Electrical distribution system. F. S. Culver. No. 969,345; Sept. 6; Sp. p. 409; Gaz. vol. 158; p. 66.
Electrical distribution system. A. S. Hubbard. No. 972,536; Oct. 11; Sp. p. 2222; Gaz. vol. 159; p. 384.
Electrical distribution system. J. B. Entz. No. 972,782; Oct. 11; Sp. p. 2749; Gaz. vol. 159; p. 468.
Electrical distribution system. A. S. Hubbard. No. 974,063; Oct. 25; Sp. p. 5551; Gaz. vol. 159; p. 962.
Electrical distribution system. R. N. Chamberlain and M. R. Shedd. No. 976,151; Nov. 22; Sp. p. 4528; Gaz. vol. 160; p. 785.
Electrical distribution system. A. S. Hubbard. No. 976,878; Nov. 29; Sp. p. 6152; Gaz. vol. 160; p. 1060.
Electrical distribution system. J. H. Tracy. No. 978,513; Dec. 13; Sp. p. 2364; Gaz. vol. 161; p. 408.
Electrical distribution system. J. H. Tracy. No. 978,514; Dec. 13; Sp. p. 2366; Gaz. vol. 161; p. 408.
Electrical distribution system and method. P. H. Thomas. No. 968,896; Aug. 30; Sp. p. 6530; Gaz. vol. 157; p. 1137.
Electrical distribution system, Closed. R. M. Palmer. No. 972,468; Oct. 11; Sp. p. 2058; Gaz. vol. 159; p. 359.
Electrical distribution, Three-wire system of. P. H. Thomas. No. 979,396; Dec. 20; Sp. p. 4265; Gaz. vol. 161; p. 734.
Electrical element. A. T. K. Estelle. No. 977,086; Nov. 29; Sp. p. 6644; Gaz. vol. 160; p. 1133.
Electrical element. A. T. K. Estelle and K. W. H. Evers. No. 979,064; Dec. 20; Sp. p. 3550; Gaz. vol. 161; p. 621.
Electrical energy, Apparatus for transforming. P. C. Hewitt. No. 966,205; Aug. 2; Sp. p. 781; Gaz. vol. 157; p. 123.
Electrical energy, Transmission and receipt of. R. A. Fessenden. No. 979,144; Dec. 20; Sp. p. 3768; Gaz. vol. 161; p. 651.
Electrical energy, Transmission of. W. F. Gradolph and W. C. Hahne. No. 959,337; May 24; Sp. p. 6313; Gaz. vol. 154; p. 1056.
Electrical energy, Transmitting. W. F. Gradolph and W. C. Hahne. No. 959,428; May 24; Sp. p. 6472; Gaz. vol. 154; p. 1084.
Electrical equalizer system. O. S. Schairer. No. 977,554; Dec. 6; Sp. p. 316; Gaz. vol. 161; p. 47.
Electrical equalizer system. W. Cooper. No. 977,598; Dec. 6; Sp. p. 417; Gaz. vol. 161; p. 61.
Electrical equalizing system. R. Richter. No. 977,328; Nov. 29; Sp. p. 7147; Gaz. vol. 160; p. 1216.
Electrical fitting. F. A. Swan. No. 967,997; Aug. 23; Sp. p. 4579; Gaz. vol. 157; p. 802.
Electrical fixture. F. E. Seeley. No. 972,577; Oct. 11; Sp. p. 2333; Gaz. vol. 159; p. 399.
Electrical flasher. A. S. Gibbs. No. 977,294; Nov. 29; Sp. p. 7081; Gaz. vol. 160; p. 1205.
Electrical heater. R. Lares. No. 955,598; Apr. 19; Sp. p. 4116; Gaz. vol. 153; p. 716.
Electrical heater. M. H. Shoenberg and G. T. Marsh. No. 972,131; Oct. 4; Sp. p. 1334; Gaz. vol. 159; p. 224.
Electrical heater. M. H. Shoenberg and G. T. Marsh. No. 976,404; Nov. 22; Sp. p. 5152; Gaz. vol. 160; p. 874.
Electrical heater. F. Kuhn. No. 979,515; Dec. 27; Sp. p. 4517; Gaz. vol. 161; p. 798.
Electrical heater and manufacturing same in the form of textiles. M. Hefter. No. 975,358; Nov. 8; Sp. p. 2873; Gaz. vol. 160; p. 464.
Electrical indicator. C. Wirt. No. 952,163; Mar. 15; Sp. p. 3433; Gaz. vol. 152; p. 617.
Electrical indicator. E. E. Craig. No. 972,682; Oct. 11; Sp. p. 2546; Gaz. vol. 159; p. 434.
Electrical-machine brush or collector. S. Sparrow. No. 959,634; May 31; Sp. p. 6934; Gaz. vol. 154; p. 1181.
Electrical machines, Rotor for high-speed. H. H. Wait. No. 980,032; Dec. 27; Sp. p. 5653; Gaz. vol. 161; p. 974.
Electrical meter, Recording. M. J. Wohl and H. Hertzberg. No. 947,266; Jan. 25; Sp. p. 4990; Gaz. vol. 150; p. 848.
Electrical-oscillation generator, High-frequency. L. De Forest. No. 979,277; Dec. 20; Sp. p. 4050; Gaz. vol. 161; p. 697.
Electrical plug-receptacle. G. B. Thomas. No. 952,961; Mar. 22; Sp. p. 5112; Gaz. vol. 152; p. 918.
Electrical protective apparatus. F. B. Cook. No. 966,655; Aug. 9; Sp. p. 1751; Gaz. vol. 157; p. 299.
Electrical protective apparatus. J. A. Birsfield. No. 970,169; Sept. 13; Sp. p. 2190; Gaz. vol. 158; p. 373.
Electrical protective apparatus, Self-cleaning. F. R. Parker. No. 968,395; Aug. 23; Sp. p. 5444; Gaz. vol. 157; p. 939.
Electrical purposes, Coil for. E. W. Jodrey. No. 957,213; May 10; Sp. p. 1543; Gaz. vol. 154; p. 273.
Electrical receiving apparatus. J. M. Boyle. No. 962,417; June 28; Sp. p. 4589; Gaz. vol. 155; p. 811.
Electrical receptacle. F. J. Russell. No. 948,567; Feb. 8; Sp. p. 1662; Gaz. vol. 151; p. 290.
Electrical receptacle and mounting therefor. F. J. Russell. No. 945,049; Jan. 4; Sp. p. 86; Gaz. vol. 150; p. 16.
Electrical receptacle and rosette. L. J. Castonguay. No. 962,816; June 28; Sp. p. 5438; Gaz. vol. 155; p. 950.
Electrical-receptacle mounting. E. H. Freeman. No. 947,154; Jan. 18; Sp. p. 4739; Gaz. vol. 150; p. 781.
Electrical receptacle, Screw-plug. F. J. Russell. No. 955,438; Apr. 19; Sp. p. 3761; Gaz. vol. 153; p. 660.

Alphabetical list of inventions—Continued.

Electrical recorder. E. F. Northrup. No. 950,555; Mar. 1; Sp. p. 193; Gaz. vol. 152; p. 33.
Electrical resistance, contact, and the like. H. S. Hatfield. No. 978,022; Dec. 6; Sp. p. 1293; Gaz. vol. 161; p. 207.
Electrical separation. H. A. Wentworth. No. 970,001; Sept. 13; Sp. p. 1857; Gaz. vol. 158; p. 316.
Electrical separation apparatus. H. A. Wentworth. No. 960,470; June 7; Sp. p. 452; Gaz. vol. 155; p. 77.
Electrical sliding contacts, Cooling device for. B. von Ugrimoff. No. 970,407; Sept. 13; Sp. p. 2675; Gaz. vol. 158; p. 452.
Electrical space communication. G. W. Pickard. No. 956,165; Apr. 26; Sp. p. 5369; Gaz. vol. 153; p. 943.
Electrical switch. W. T. Arndt. No. 945,011; Jan. 4; Sp. p. 2; Gaz. vol. 150; p. 3.
Electrical switch. J. D. Hilliard. No. 949,033; Feb. 15; Sp. p. 2651; Gaz. vol. 151; p. 472.
Electrical switch. J. O. Heinze, Jr. No. 957,953; May 17; Sp. p. 3108; Gaz. vol. 154; p. 555.
Electrical switch. A. F. Furbush. No. 974,106; Oct. 25; Sp. p. 5629; Gaz. vol. 159, p. 976.
Electrical switch. J. D. Hilliard. No. 976,654; Nov. 22; Sp. p. 5677; Gaz. vol. 160; p. 960.
Electrical switch. W. P. Hammond. No. 977,797; Dec. 6; Sp. p. 826; Gaz. vol. 161; p. 129.
Electrical switchboard. J. A. Schaefer. No. 959,886; May 31; Sp. p. 7485; Gaz. vol. 154; p. 1265.
Electrical test implement. V. H. Dake. No. 951,631; Mar. 8; Sp. p. 2370; Gaz. vol. 152; p. 411.
Electrical testing apparatus. H. J. Blakeslee. No. 950,714; Mar. 1; Sp. p. 551; Gaz. vol. 152; p. 86.
Electrical time-limit switch. P. K. Stern. No. 947,981; Feb. 1; Sp. p. 423; Gaz. vol. 151; p. 67.
Electrical tool, Portable. F. J. Backscheider. No. 964,197; July 12; Sp. p. 2543; Gaz. vol. 156; p. 419.
Electrically-actuated switch. F. G. Proutt. No. 959,257; May 24; Sp. p. 6155; Gaz. vol. 154; p. 1029.
Electrically-controlled switch. E. R. Carichoff. No. 953,369; Mar. 29; Sp. p. 6011; Gaz. vol. 152; p. 1081.
Electrically-heated apparatus. H. B. Gale. No. 965,449; July 26; Sp. p. 5292; Gaz. vol. 156; p. 905.
Electrically-heated boiler. C. Aalborg. No. 974,330; Nov. 1; Sp. p. 580; Gaz. vol. 160; p. 85.
Electrically-heated device. W. S. Hadaway Jr. No. 977,625; Dec. 6; Sp. p. 471; Gaz. vol. 161; p. 71.
Electrically-heated roller. G. H. Wade. No. 957,824; May 10; Sp. p. 2797; Gaz. vol. 154; p. 480.
Electrically-ignited burner. E. J. Goldblatt. No. 977,521; Dec. 6; Sp. p. 233; Gaz. vol. 161; p. 35.
Electrically-operated lock. H. S. Balliet. No. 960,776; June 7; Sp. p. 1090; Gaz. vol. 155; p. 182.
Electrically-operated switch. J. A. Lundeen. No. 965,639; July 26; Sp. p. 5724; Gaz. vol. 156; p. 973.
Electrically-operated switch. F. Chamness and J. P. Kriegbaum. No. 977,595; Dec. 6; Sp. p. 412; Gaz. vol. 161; p. 61.
Electrically-wound mechanisms, Contact device for. B. F. Kessler. No. 947,821; Feb. 1; Sp. p. 71; Gaz. vol. 151; p. 15.
Electricity, Apparatus for thermochemical generation of. L. P. Basset. No. 963,980; July 12; Sp. p. 2117; Gaz. vol. 156; p. 346.
Electricity, Apparatus for use in exercising, and developing and applying static. M. M. Hitt. No. 970,332; Sept. 13; Sp. p. 2540; Gaz. vol. 158; p. 428.
Electricity, Method of and apparatus for generating. B. Schwerin. No. 972,029; Oct. 4; Sp. p. 1140; Gaz. vol. 159; p. 191.
Electricity-meter. D. C. Jackson. No. 962,222; June 21; Sp. p. 4152; Gaz. vol. 155; p. 721.
Electricity-meter. H. Aron. No. 979,635; Dec. 27; Sp. p. 4793; Gaz. vol. 161; p. 841.
Electricity-meter, Prepayment. H. Aron. No. 957,534; May 10; Sp. p. 2216; Gaz. vol. 154; p. 383.
Electricity-meter, Prepayment. H. Aron. No. 957,535; May 10; Sp. p. 2221; Gaz. vol. 154; p. 384.
Electrochemical apparatus and process. E. H. Meyer and J. M. A. Stillesen. No. 965,393; July 26; Sp. p. 5163; Gaz. vol. 156; p. 886.
Electrode. J. W. Stubbs. No. 947,358; Jan. 25; Sp. p. 5235; Gaz. vol. 150; p. 882.
Electrode. R. H. Wolff. No. 974,008; Oct. 25; Sp. p. 5446; Gaz. vol. 159; p. 943.
Electrode. J. T. H. Dempster. No. 976,990; Nov. 29; Sp. p. 6443; Gaz. vol. 160; p. 1100.
Electrode and making the same. H. J. J. Jaburg, Jr. No. 968,949; Aug. 30; Sp. p. 6629; Gaz. vol. 157; p. 1155.
Electrode, Arc-lamp. J. H. Hallberg. No. 959,133; May 24; Sp. p. 5896; Gaz. vol. 154; p. 988.
Electrode, Arc-lamp. G. A. Thomson. No. 961,268; June 14; Sp. p. 2081; Gaz. vol. 155; p. 374.
Electrode, Arc-lamp. G. A. Thomson. No. 961,269; June 14; Sp. p. 2081; Gaz. vol. 155; p. 374.
Electrode, Arc-lamp. G. Egly. No. 977,607; Dec. 6; Sp. p. 439; Gaz. vol. 161; p. 65.
Electrode, Arc-light. I. Ladoff. No. 948,926; Feb. 8; Sp. p. 2404; Gaz vol. 151; p. 410.
Electrode-box for liquid-purifying apparatus. H. B. Hartman. No. 951,314; Mar. 8; Sp. p. 1735; Gaz. vol. 152; p. 305.
Electrode for arc-lamps. G. M. Dyott. No. 956,519; May 3; Sp. p. 22; Gaz. vol. 154; p. 7.
Electrode for arc-lamps. E. R. Berry and E. J. Guay. No. 974,227; Nov. 1; Sp. p. 273; Gaz. vol. 160; p. 46.
Electrode for electric-arc lights. A. D. Jones. No. 974,389; Nov. 1; Sp. p. 695; Gaz. vol. 160; p. 105.
Electrode for galvanic elements, Hollow carbon. S. Benkö. No. 974,016; Oct. 25; Sp. p. 5461; Gaz. vol. 159; p. 946.
Electrode for reversible galvanic batteries. W. Morrison. No. 975,981; Nov. 15; Sp. p. 4161; Gaz. vol. 160; p. 704.
Electrode for vapor electric apparatus. P. H. Thomas. No. 946,079; Jan. 11; Sp. p. 2366; Gaz. vol. 150; p. 393.
Electrode for vapor-lamps. P. C. Hewitt. No. 965,900; Aug. 2; Sp. p. 116; Gaz. vol. 157; p. 20.
Electrode for welding, &c. W. A. Neff. No. 960,681; June 7; Sp. p. 899; Gaz. vol. 155; p. 149.
Electrode-protector. H. C. Harrison. No. 951,990; Mar. 15; Sp. p. 3112; Gaz. vol. 152; p. 561.
Electrode, Storage-battery. T. A. Edison. No. 948,558; Feb. 8; Sp. p. 1646; Gaz. vol. 151; p. 287.
Electrode, Storage-battery. T. A. Edison and J. W. Aylesworth. No. 976,791; Nov. 22; Sp. p. 5958; Gaz. vol. 160; p. 1006.
Electrode support and conductor. I. R. Edmands. No. 959,486; May 31; Sp. p. 6635; Gaz. vol. 154; p. 1130.
Electrode support, Battery-. C. B. Schoenmehl and W. Straw. No. 945,614; Jan. 4; Sp. p. 1297; Gaz. vol. 150; p. 203.
Electrode support, Battery-. C. B. Schoenmehl and W. Straw. No. 948,379; Feb. 8; Sp. p. 1264; Gaz. vol. 151; p. 228.
Electrodes, Guide and holder for arc-lamp. G. M. Little. No. 964,667; July 19; Sp. p. 3568; Gaz. vol. 156; p. 610.
Electrodes in electric furnaces, Means for regulating. J. H. Reid. No. 968,603; Aug. 30; Sp. p. 5891; Gaz. vol. 157; p. 1038.
Electrodes, Protective device for. T. Sährig. No. 963,809; July 12; Sp. p. 1749; Gaz. vol. 156; p. 290.
Electrodes, Spacer and insulator for storage-battery. L. H. Flanders. No. 950,319; Feb. 22; Sp. p. 5383; Gaz. vol. 151; p. 944.
Electrodes, Treating. L. H. Flanders. No. 953,601; Mar. 29; Sp. p. 6503; Gaz. vol. 152; p. 1162.
Electrodes, Treating carbon. W. Gaston. No. 979,465; Dec. 27; Sp. p. 4418; Gaz. vol. 161; p. 781.
Electrodeposition, Producing metallic articles by. F. I. Gibbs. No. 975,386; Nov. 8; Sp. p. 2939; Gaz. vol. 160; p. 474.
Electrofluid-pressure apparatus. C. R. Daellenbach. No. 968,453; Aug. 23; Sp. p. 5556; Gaz. vol. 157; p. 958.
Electrolier. B. A. Stowe. No. 949,946; Feb. 22; Sp. p. 4563; Gaz. vol. 151; p. 815.
Electrolier. J. W. Turner. No. 971,226; Sept. 27; Sp. p. 4447; Gaz. vol. 158; p. 779.
Electrolier-coupling. G. L. Peeples. No. 967,548; Aug. 16; Sp. p. 3655; Gaz. vol. 157; p. 629.
Electrolier-fixture. H. F. Hutchinson. No. 969,283; Sept. 6; Sp. p. 277; Gaz. vol. 158; p. 45.
Electrolysis of aqueous solutions, Apparatus for continuous. A. Pietzsch and E. Steinbuch. No. 977,125; Nov. 29; Sp. p. 6742; Gaz. vol. 160; p. 1147.
Electrolyte and electrodepositing copper. E. F. Kern. No. 946,903; Jan. 18; Sp. p. 4269; Gaz. vol. 150; p. 701.
Electrolyte and electrodepositing zinc. E. E. Kern. No. 967,200; Aug. 16; Sp. p. 2949; Gaz. vol. 157; p. 510.
Electrolytic and similar solutions, Treating. G. A. Gabriel. No. 959,730; May 31; Sp. p. 7135; Gaz. vol. 154; p. 1211.
Electrolytic apparatus. J. H. Monge and C. Arzano. No. 945,132; Jan. 4; Sp. p. 250; Gaz. vol. 150; p. 44.
Electrolytic apparatus. H. Hatfield. No. 961,125; June 14; Sp. p. 1789; Gaz. vol. 155; p. 324.
Electrolytic apparatus. W. Thum. No. 969,921; Sept. 13; Sp. p. 1679; Gaz. vol. 158; p. 289.
Electrolytic apparatus with annular anode. H. Hatfield. No. 961,124; June 14; Sp. p. 1788; Gaz. vol. 155; p. 324.
Electrolytic apparatus with liquid anode. K. Hahn. No. 959,521; May 31; Sp. p. 6708; Gaz. vol. 154; p. 1141.
Electrolytic cell. J. L. R. Hayden. No. 946,040; Jan. 11; Sp. p. 2287; Gaz. vol. 150; p. 380.
Electrolytic cell. J. Whiting. No. 951,229; Mar. 8; Sp. p. 1544; Gaz. vol. 152; p. 278.
Electrolytic cell. P. McDorman. No. 968,492; Aug. 23; Sp. p. 5646; Gaz. vol. 157; p. 973.
Electrolytic cell. G. C. Landis and J. H. Smith. No. 974,576; Nov. 1; Sp. p. 1152; Gaz. vol. 160; p. 174.
Electrolytic cell. D. S. Hartshorn and A. A. Claflin. No. 979,485; Dec. 27; Sp. p. 4458; Gaz. vol. 161; p. 788.
Electrolytic cell. F. Weinberg. No. 979,906; Dec. 27; Sp. p. 5395; Gaz. vol. 161; p. 932.
Electrolytic decomposition of solutions. C. P. Townsend. No. 972,947; Oct. 18; Sp. p. 3182; Gaz. vol. 159; p. 554.
Electromagnet. L. Connell, Jr. No. 945,018; Jan. 4; Sp. p. 15; Gaz. vol. 150; p. 6.
Electromagnet. E. Bachelet. No. 946,193; Jan. 11; Sp. p. 2604; Gaz. vol. 150; p. 432.
Electromagnet. E. A. Burlingame. No. 946,487; Jan. 11; Sp. p. 3330; Gaz. vol. 150; p. 535.
Electromagnet. S. P. Thrasher. No. 952,086; Mar. 15; Sp. p. 3288; Gaz. vol. 152; p. 592.

Electromagnet. C. Scott. No. 961,805; June 21; Sp. p. 3226; Gaz. vol. 155; p. 579.
Electromagnet. R. Wikander. No. 977,577; Dec. 6; Sp. p. 371; Gaz. vol. 161; p. 54.
Electromagnet. B. G. Dunham. No. 978,992; Dec. 20; Sp. p. 3399; Gaz. vol. 161; p. 598.
Electromagnet, Alternating-current. L. Larsen. No. 954,745; Apr. 12; Sp. p. 2278; Gaz. vol. 153; p. 395.
Electromagnet-coil. C. B. Larzelere. No. 963,907; July 12; Sp. p. 1961; Gaz. vol. 156; p. 322.
Electromagnet-coil. C. Aalborg. No. 973,838; Oct. 25; Sp. p. 5086; Gaz. vol. 159; p. 883.
Electromagnets, Control system for. J. H. Hall. No. 967,186; Aug. 16; Sp. p. 2919; Gaz. vol. 157; p. 505.
Electromagnets, Device for controlling the consecutive operation of. F. G. Agrell. No. 973,737; Oct. 25; Sp. p. 4881; Gaz. vol. 159; p. 848.
Electromagnetic circuit-controller. H. G. Geissinger. No. 964,418; July 12; Sp. p. 2986; Gaz. vol. 156; p. 493.
Electromagnetic device. H. G. Geissinger. No. 946,215; Jan. 11; Sp. p. 2643; Gaz. vol. 150; p. 440.
Electromagnetic device. W. A. Crowdus. No. 962,129; June 21; Sp. p. 3970; Gaz. vol. 155; p. 690.
Electromagnetic device. W. S. Burnett. No. 970,180; Sept. 13; Sp. p. 2211; Gaz. vol. 158; p. 376.
Electromagnetic drill. F. E. Baney. No. 968,729; Aug. 30; Sp. p. 6191; Gaz. vol. 157; p. 1082.
Electromagnetic mechanism. H. Pierson. No. 969,493; Sept. 6; Sp. p. 724; Gaz. vol. 158; p. 115.
Electromagnetic separator. F. J. Phillips. No. 966,855; Aug. 9; Sp. p. 2222; Gaz. vol. 157; p. 365.
Electromagnetic switch. R. V. Collins. No. 948,624; Feb. 8; Sp. p. 1794; Gaz. vol. 151; p. 308.
Electromagnetic wave energy, Aerial for the transmission and reception of. R. Pfund. No. 945,475; Jan. 4; Sp. p. 1006; Gaz. vol. 150; p. 157.
Electromagnetic waves, Receiver for. R. A. Fessenden. No. 962,016; June 21; Sp. p. 3690; Gaz. vol. 155; p. 649.
Electromagnetic waves, Receiving apparatus for. E. H. Smythe. No. 974,838; Nov. 8; Sp. p. 1707; Gaz. vol. 160; p. 287.
Electromagnetic waves with sound-regulated frequencies, System for the transmission of. W. H. Bathrick. No. 948,156; Feb. 1; Sp. p. 775; Gaz. vol. 151; p. 127.
Electromagnetically-operated switch. J. F. Tritle. No. 964,711; July 19; Sp. p. 3762; Gaz. vol. 156; p. 626.
Electromechanical compound brake. A. Sundh. No. 979,720; Dec. 27; Sp. p. 4962; Gaz. vol. 161; p. 869.
Electromechanical device. G. H. Rowe. No. 973,216; Oct. 18; Sp. p. 3783; Gaz. vol. 159; p. 647.
Electrometallurgical furnace. F. Louvrier. No. 978,464; Dec. 13; Sp. p. 2259; Gaz. vol. 161; p. 391.
Electrometallurgical furnace. F. Louvrier. No. 978,465; Dec. 13; Sp. p. 2261; Gaz. vol. 161; p. 392.
Electrometallurgical products, Purifying. F. W. Higgins. No. 966,399; Aug. 2; Sp. p. 1146; Gaz. vol. 157; p. 185.
Electroplating. T. A. Edison. No. 964,096; July 12; Sp. p. 2361; Gaz. vol. 156; p. 387.
Electroplating. A. Rosenberg. No. 970,755; Sept. 20; Sp. p. 3470; Gaz. vol. 158; p. 594.
Electroplating. F. J. McElhone. No. 973,951; Oct. 25; Sp. p. 5316; Gaz. vol. 159; p. 923.
Electroplating apparatus. W. R. King. No. 948,056; Feb. 1; Sp. p. 583; Gaz. vol. 151; p. 93.
Electroplating apparatus. N. S. Emery and B. W. Gilchrist. No. 950,068; Feb. 22; Sp. p. 4871; Gaz. vol. 151; p. 857.
Electroplating apparatus, Dipping mechanism for. J. H. Shaw. No. 963,817; July 12; Sp. p. 1763; Gaz. vol. 156; p. 292.
Electroplating-barrel apparatus. T. A. Smith and T. Deakin. No. 951,662; Mar. 8; Sp. p. 2440; Gaz. vol. 152; p. 422.
Electroplating pipe, &c., Means for. L. A. Williams. No. 951,265; Mar. 8; Sp. p. 1615; Gaz. vol. 152; p. 289.
Electroplating pipes, &c., Apparatus for. D. H. Murphy. No. 962,655; June 28; Sp. p. 5106; Gaz. vol. 155; p. 893.
Electroplating-tank. E. R. Williams. No. 968,622; Aug. 30; Sp. p. 5927; Gaz. vol. 157; p. 1044.
Electrorheostat-regulator. H. Gernsback. No. 948,275; Feb. 1; Sp. p. 1010; Gaz. vol. 151; p. 166.
Electrostatic magnetic separation. H. M. Sutton, W. L. and E. G. Steele. No. 977,570; Dec. 6; Sp. p. 351; Gaz. vol. 161; p. 52.
Electrothermal garments, Foot-warming attachment for. B. R. Charles. No. 969,147; Aug. 30; Sp. p. 7032; Gaz. vol. 157; p. 1223.
Electrotype-curving machine. W. W. McCarroll. No. 974,288; Nov. 1; Sp. p. 475; Gaz. vol. 160; p. 69.
Electrotype-plates, Apparatus for backing. G. E. Dunton. No. 976,856; Nov. 29; Sp. p. 6113; Gaz. vol. 160; p. 1052.
Electrotype-plates, Bending. P. M. Furlong. No. 956,522; May 3; Sp. p. 25; Gaz. vol. 154; p. 7.
Electrotype-plates, Plate-holder for use in bending. P. M. Furlong. No. 956,521; May 3; Sp. p. 24; Gaz. vol. 154; p. 7.
Electrotyping, Machine for blackleading molds for. G. H. Benedict. No. 967,160; Aug. 16; Sp. p. 2866; Gaz. vol. 157; p. 496.
Elevated carrier. A. D. Hadsel. No. 945,939; Jan. 11; Sp. p. 2080; Gaz. vol. 150; p. 346.
Elevated carrier. L. A. Martin. No. 972,557; Oct. 11; Sp. p. 2267; Gaz. vol. 159; p. 391.
Elevated carrier. H. H. Drew. No. 976,157; Nov. 22; Sp. p. 4549; Gaz. vol. 160; p. 787.
Elevating apparatus, Box and package. A. O. Brigance. No. 956,756; May 3; Sp. p. 551; Gaz. vol. 154; p. 88.
Elevating machinery. A. T. Prescott. No. 960,701; June 7; Sp. p. 940; Gaz. vol. 155; p. 156.
Elevating, transporting, and discharging material, Apparatus for. T. S. Watson. No. 971,708; Oct. 4; Sp. p. 408; Gaz. vol. 159; p. 71.
Elevator: *See* Automatic elevator; Casing-elevator; Electric elevator; Fluid-elevator; Grain-elevator; Harvester-elevator; Hydraulic elevator; Inclined elevator; Knock-down elevator; Material-elevator; Oil and water elevator; Plunger-elevator; Pneumatic elevator; Portable elevator; Rod-elevator; Rope-drive elevator; Safety-elevator; Ship-elevator; Straw-elevator; Sucker-rod elevator; Transportable elevator; Water-elevator.
Elevator. A. S. Gooch. No. 945,034; Jan. 4; Sp. p. 54; Gaz. vol. 150; p. 10.
Elevator. J. A. Ashton, Sr. No. 947,585; Jan. 25; Sp. p. 5762; Gaz. vol. 150; p. 958.
Elevator. L. Kantor. No. 948,175; Feb. 1; Sp. p. 802; Gaz. vol. 151; p. 133.
Elevator. P. N. Davey. No. 949,266; Feb. 15; Sp. p. 3119; Gaz. vol. 151; p. 549.
Elevator. C. D. Seeberger. No. 950,796; Mar. 1; Sp. p. 726; Gaz. vol. 152; p. 116.
Elevator. A. Sautter. No. 953,297; Mar. 29; Sp. p. 5847; Gaz. vol. 152; p. 1056.
Elevator. W. Reubold. No. 957,379; May 10; Sp. p. 1903; Gaz. vol. 154; p. 331.
Elevator. B. Epstein. No. 959,327; May 24; Sp. p. 6292; Gaz. vol. 154; p. 1052.
Elevator. J. H. Taylor. No. 962,991; June 28; Sp. p. 5765; Gaz. vol. 155; p. 1009.
Elevator. H. A. Humphrey. No. 963,567; July 5; Sp. p. 1211; Gaz. vol. 156; p. 186.
Elevator. H. A. Humphrey. No. 963,568; July 5; Sp. p. 1216; Gaz. vol. 156; p. 187.
Elevator. H. A. Humphrey. No. 963,569; July 5; Sp. p. 1220; Gaz. vol. 156; p. 187.
Elevator. H. A. Humphrey. No. 963,570; July 5; Sp. p. 1224; Gaz. vol. 156; p. 188.
Elevator. L. Labecki. No. 966,220; Aug. 2; Sp. p. 812; Gaz. vol. 157; p. 129.
Elevator. C. C. Rittenhouse. No. 966,769; Aug. 9; Sp. p. 2039; Gaz. vol. 157; p. 339.
Elevator. C. G. Armstrong. No. 968,634; Aug. 30; Sp. p. 5952; Gaz. vol. 157; p. 1048.
Elevator. J. G. Meisner. No. 970,730; Sept. 20; Sp. p. 3404; Gaz. vol. 158; p. 584.
Elevator. M. C. Schwab. No. 974,439; Nov. 1; Sp. p. 820; Gaz. vol. 160; p. 123.
Elevator. F. J. Feldt. No. 977,518; Dec. 6; Sp. p. 226; Gaz. vol. 161; p. 34.
Elevator. H. A. Humphrey. No. 978,377; Dec. 13; Sp. p. 2072; Gaz. vol. 161; p. 362.
Elevator. J. M. Goodknight. No. 979,001; Dec. 20; Sp. p. 3415; Gaz. vol. 161; p. 600.
Elevator apparatus. P. H. Melander. No. 959,778; May 31; Sp. p. 7231; Gaz. vol. 154; p. 1227.
Elevator apparatus, Alternating-current. D. Larson. No. 949,740; Feb. 15; Sp. p. 4076; Gaz. vol. 151; p. 708.
Elevator attachment. W. H. Ingle. No. 970,925; Sept. 30; Sp. p. 3815; Gaz. vol. 158; p. 651.
Elevator attachment to indicate alinement of floors. B. Brodowski. No. 954,018; Apr. 5; Sp. p. 663; Gaz. vol. 153; p. 118.
Elevator-boot. C. W. Utzman. No. 977,908; Dec. 6; Sp. p. 1058; Gaz. vol. 161; p. 168.
Elevator-brake. W. R. Elliott. No. 949,526; Feb. 15; Sp. p. 3657; Gaz. vol. 151; p. 637.
Elevator-brake. F. A. J. Schulz. No. 961,541; June 14; Sp. p. 2694; Gaz. vol. 155; p. 467.
Elevator-car doors, Means for locking. T. H. Straley. No. 968,283; Aug. 23; Sp. p. 5228; Gaz. vol. 157; p. 900.
Elevator control device, Automatic. L. J. Milke. No. 957,077; May 3; Sp. p. 1244; Gaz. vol. 154; p. 197.
Elevator-controller. W. D. Baldwin. No. 974,849; Nov. 8; Sp. p. 1740; Gaz. vol. 160; p. 291.
Elevator-controlling device. C. Barnum. No. 974,850; Nov. 8; Sp. p. 1743; Gaz. vol. 160; p. 291.
Elevator device. R. L. Garnett. No. 952,988; Mar. 22; Sp. p. 5156; Gaz. vol. 152; p. 926.
Elevator-door lock. A. W. Hubers. No. 973,275; Oct. 18; Sp. p. 3894; Gaz. vol. 159; p. 666.
Elevator-door locks, Means for operating. J. E. Boyce. No. 952,698; Mar. 22; Sp. p. 4561; Gaz. vol. 152; p. 829.
Elevator door, Sidewalk-. C. G. Janson. No. 971,754; Oct. 4; Sp. p. 516; Gaz. vol. 159; p. 89.
Elevator freight-compartments, Door attachment for. B. A. Snyder and M. A. Custis. No. 957,807; May 10; Sp. p. 2770; Gaz. vol. 154; p. 475.
Elevator-gate. C. Nielsen. No. 979,027; Dec. 20; Sp. p. 3473; Gaz. vol. 161; p. 609.
Elevator-guide lubricator. C. V. Warren. No. 974,616; Nov. 1; Sp. p. 1226; Gaz. vol. 160; p. 189.

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Elevator interlocking safety device. R. P. Lumley and H. G. Hillman. No. 956,536; May 3; Sp. p. 57; Gaz. vol. 154; p. 12.
Elevator mechanism. J. W. Pogue. No. 974,914; Nov. 8; Sp. p. 1894; Gaz. vol. 160; p. 312.
Elevator-operating apparatus. C. Newson. No. 966,231; Aug. 2; Sp. p. 833; Gaz. vol. 157; p. 133.
Elevator-plungers, Device for grinding. A. R. Klingloff. No. 961,969; June 21; Sp. p. 3603; Gaz. vol. 155; p. 634.
Elevator-retarding mechanism, Plunger-. A. L. Schuller. No. 965,542; July 26; Sp. p. 5515; Gaz. vol. 156; p. 939.
Elevator safety actuating device. W. C. Strang No. 969,811; Sept. 13; Sp. p. 1442; Gaz. vol. 158; p. 250.
Elevator safety appliance. A. C. Mohnike. No. 974,414; Nov. 1; Sp. p. 752; Gaz. vol. 160; p. 114.
Elevator safety appliance. P. Hinkel. No. 979,491; Dec. 27; Sp. p. 4471; Gaz. vol. 161; p. 790.
Elevator safety attachment. P. Walker. No. 956,552; May 3; Sp. p. 96; Gaz. vol. 154; p. 18.
Elevator safety attachment. C. E. and B. Baumer. No. 958,580; May 17; Sp. p. 4719; Gaz. vol. 154; p. 775.
Elevator safety device. M. J. Hoy. No. 949,274; Feb. 15; Sp. p. 3129; Gaz. vol. 151; p. 552.
Elevator safety device. M. C. Schwab. No. 949,847; Feb. 22; Sp. p. 4322; Gaz. vol. 151; p. 779.
Elevator safety device. S. S. Lozaw. No. 953,537; Mar. 29; Sp. p. 6375; Gaz. vol. 152; p. 1141.
Elevator safety device. C. J. Brookins. No. 955,451; Apr. 19; Sp. p. 3787; Gaz. vol. 153; p. 665.
Elevator safety device. S. S. Stolp. No. 957,123; May 3; Sp. p. 1328; Gaz. vol. 154; p. 212.
Elevator safety device. C. R. Pratt. No. 958,679; May 17; Sp. p. 4907; Gaz. vol. 154; p. 806.
Elevator safety device. J. A. Sissom. No. 958,943; May 24; Sp. p. 5506; Gaz. vol. 154; p. 924.
Elevator safety device. A. H. Meach. No. 962,037; June 21; Sp. p. 3739; Gaz. vol. 155; p. 656.
Elevator safety device. H. W. McNaught. No. 969,296; Sept. 6; Sp. p. 304; Gaz. vol. 158; p. 50.
Elevator safety device. C. B. Norris. No. 969,557; Sept. 6; Sp. p. 875; Gaz. vol. 158; p. 138.
Elevator safety device. J. Kulp. No. 973,518; Oct. 25; Sp. p. 4417; Gaz. vol. 159; p. 772.
Elevator safety device. A. W. Hengerer and R. J. Kiendl. No. 974,140; Nov. 1; Sp. p. 65; Gaz. vol. 160; p. 14.
Elevator safety device. C. G. Carpenter. No. 975,018; Nov. 8; Sp. p. 2138; Gaz. vol. 160; p. 349.
Elevator safety dévice. A. L. Bush. No. 975,828; Nov. 15; Sp. p. 3859; Gaz. vol. 160; p. 651.
Elevator safety device, Passenger-. A. Y. Dodge. No. 947,075; Jan. 18; Sp. p. 4590; Gaz. vol. 150; p. 757.
Elevator safety devices, Means for operating. G. B. Rice. No. 961,260; June 14; Sp. p. 2065; Gaz. vol. 155; p. 372.
Elevator safety-grip. C. K. Rogers. No. 972,252; Oct. 11; Sp. p. 1621; Gaz. vol. 159; p. 285.
Elevator safety-lock. W. R. West and G. C. Baker. No. 968,907; Aug. 30; Sp. p. 6554; Gaz. vol. 157; p. 1141.
Elevator safety-stop. J. Skaba. No. 950,459; Feb. 22; Sp. p. 5629; Gaz. vol. 151; p. 988.
Elevator-shaft construction. E. Cahill. No. 952,415; Mar. 15; Sp. p. 3930; Gaz. vol. 152; p. 703.
Elevator signal system. H. J. Heeney. No. 947,733; Jan. 25; Sp. p. 6038; Gaz. vol. 150; p. 1007.
Elevator signaling apparatus. R. A. Griswold and J. Zang. No. 968,466; Aug. 23; Sp. p. 5585; Gaz. vol. 157; p. 963.
Elevator system, Electrohydraulic. E. M. Fraser. No. 955,508; Apr. 19; Sp. p. 3904; Gaz. vol. 153; p. 686.
Elevator-well gates, Automatic closing device for. A. Runkel. No. 968,197; Aug. 23; Sp. p. 5042; Gaz. vol. 157; p. 869.
Elevator-wheel. J. F. Barker. No. 977,062; Nov. 29; Sp. p. 6587; Gaz. vol. 160; p. 1124.
Elevators, Alternating-current controlling apparatus for hydraulic. D. L. Lindquist. No. 976,130; Nov. 15; Sp. p. 4479; Gaz. vol. 160; p. 755.
Elevators, Cable-hitch for. C. A. Anderson. No. 969,322; Sept. 6; Sp. p. 359; Gaz. vol. 158; p. 59.
Elevators, Combined operating and controlling means for hydraulic. S. G. Neal. No. 959,786; May 31; Sp. p. 7241; Gaz. vol. 154; p. 1230.
Elevators, Interlock mechanism for. J. S. Mucklé. No. 957,702; May 10; Sp. p. 2549; Gaz. vol. 154; p. 441.
Elevators, Limit-stop for hydraulic. T. E. Brown. No. 952,097; Mar. 15; Sp. p. 3305; Gaz. vol. 152; p. 596.
Elevators, Plunger-guide for direct-plunger. T. Laisson and A. C. Smith. No. 952,044; Mar. 15; Sp. p. 3218; Gaz. vol. 152; p. 579.
Elevators, Protective apparatus for alternating-current. W. N. Dickinson, Jr. No. 950,224; Feb. 22; Sp. p. 5194; Gaz. vol. 151; p. 911.
Elevators, Storage-carrier for portable. F. T. Byers. No. 946,008; Jan. 11; Sp. p. 2223; Gaz. vol. 150; p. 369.
Ellipsograph. J. R. Shea. No. 957,114; May 3; Sp. p. 1310; Gaz. vol. 154; p. 209.
Ellipsograph. T. Jeter. No. 973,047; Oct. 18; Sp. p. 3392; Gaz. vol. 159; p. 587.
Elliptic spring. H. Jeffrey. No. 965,191; July 26; Sp. p. 4725; Gaz. vol. 156; p. 818.
Elongating-machine. W. H. Hoyle and T. Barker. No. 976,191; Nov. 22; Sp. p. 6894; Gaz. vol. 160; p. 1170.
Embalmer's injecting and aspirating apparatus. B. Leon. No. 972,878; Oct. 18; Sp. p. 2982; Gaz. vol. 159; p. 528.
Embalming. C. L. Barnes. No. 978,814; Dec. 13; Sp. p. 2993; Gaz. vol. 161; p. 507.
Embalming apparatus. W. B. McCourtie. No. 948,115; Feb. 1; Sp. p. 695; Gaz. vol. 151; p. 113.
Embalming-couch, Extension. C. Nugent. No. 971,921; Oct. 4; Sp. p. 881; Gaz. vol. 159; p. 152.
Embalming instrument. H. J. Birkenkamp. No. 945,741; Jan. 11; Sp. p. 1621; Gaz. vol. 150; p. 274.
Embalming instrument. R. T. Payne. No. 966,591; Aug. 9; Sp. p. 1632; Gaz. vol. 157; p. 278.
Emblem-fastener. D. S. Haynes. No. 974,059; Oct. 25; Sp. p. 5539; Gaz. vol. 159; p. 960.
Embossing and printing press. E. M. Lockwood. No. 951,481; Mar. 8; Sp. p. 2078; Gaz. vol. 152; p. 360.
Embossing attachment. F. H. Hoberg. No. 950,482; Mar. 1; Sp. p. 40; Gaz. vol. 152; p. 8.
Embossing-machine. C. Owens. No. 947,254; Jan. 25; Sp. p. 4957; Gaz. vol. 150; p. 844.
Embossing-machine. C. Owens. No. 947,397; Jan. 25; Sp. p. 5319; Gaz. vol. 150; p. 894.
Embossing-machine. C. Owens. No. 976,905; Nov. 29; Sp. p. 6211; Gaz. vol. 160; p. 1069.
Embossing mill, Sheet-. V. Chartener. No. 969,460; Sept. 6; Sp. p. 639; Gaz. vol. 158; p. 102.
Embossing-press. O. McCann. No. 956,140; Apr. 26; Sp. p. 5311; Gaz. vol. 153; p. 934.
Embroidering-machine. P. Meinelt and H. Rehm. No. 947,352; Jan. 25; Sp. p. 5226; Gaz. vol. 150; p. 880.
Embroidering-machine. R. Zahn. No. 952,858; Mar. 22; Sp. p. 4910; Gaz. vol. 152; p. 884.
Embroidering-machine. P. Zünd. No. 967,288; Aug. 16; Sp. p. 3112; Gaz. vol. 157; p. 539.
Embroidering-machine, Crank hemstitch. D. Noble. No. 971,140; Sept. 27; Sp. p. 4261; Gaz. vol. 158; p. 750.
Embroidering-machines, Jacquard for. J. K. Knecht. No. 979,964; Dec. 27; Sp. p. 5498; Gaz. vol. 161; p. 951.
Embroidery attachment. R. W. Shockley. No. 959,890; May 31; Sp. p. 7495; Gaz. vol. 154; p. 1266.
Embroidery-backing. P. London. No. 961,974; June 21; Sp. p. 3610; Gaz. vol. 155; p. 635.
Embroidery-hoop. W. C. Maynard. No. 946,452; Jan. 11; Sp. p. 3254; Gaz. vol. 150; p. 523.
Embroidery-hoop. W. F. Mintel. No. 951,509; Mar. 8; Sp. p. 2131; Gaz. vol. 152; p. 369.
Embroidery-hoop. N. C. Leonard. No. 955,415; Apr. 19; Sp. p. 3716; Gaz. vol. 153; p. 653.
Embroidery-hoop. G. J. Lang. No. 966,929; Aug. 9; Sp. p. 2374; Gaz. vol. 157; p. 389.
Embroidery-hoop. H. C. Ferguson. No. 973,642; Oct. 25; Sp. p. 4690; Gaz. vol. 159; p. 814.
Embroidery-machine spool-holder. J. Frey. No. 951,810; Mar. 15; Sp. p. 2743; Gaz. vol. 152; p. 501.
Embroidery-piercer. L. S. Leon. No. 953,149; Mar. 29; Sp. p. 5534; Gaz. vol. 152; p. 1009.
Embroidery-ring. G. P. Jameson. No. 956,767; May 3; Sp. p. 574; Gaz. vol. 154; p. 91.
Emergency-brake. T. Jones and L. J. Evans. No. 974,390; Nov. 1; Sp. p. 696; Gaz. vol. 160; p. 106.
Emergency-brake. M. W. Muehlhauser. No. 977,824; Dec. 6; Sp. p. 883; Gaz. vol. 161; p. 138.
Emergency-coupling. F. B. Meyers. No. 968,382; Aug. 23; Sp. p. 5418; Gaz. vol. 157; p. 935.
Emergency-coupling. J. G. Jackson. No. 969,142; Aug. 30; Sp. p. 7025; Gaz. vol. 157; p. 1222.
Emery-wheel dresser. W. D. Rearwin. No. 961,460; June 14; Sp. p. 2505; Gaz. vol. 155; p. 441.
Emery-wheel dressers, Attachment for. H. G. Butcher. No. 970,681; Sept. 20; Sp. p. 3304; Gaz. vol. 158; p. 568.
Emery-wheel-dressing tool. C. H. Stephan. No. 953,445; Mar. 29; Sp. p. 6174; Gaz. vol. 152; p. 1107.
Emery-wheel-dressing tool. A. H. Neller. No. 967,420; Aug. 16; Sp. p. 3401; Gaz. vol. 157; p. 586.
Emery-wheel hood. G. W. Furrow. No. 956,762; May 3; Sp. p. 563; Gaz. vol. 154; p. 90.
Emery-wheel stand. S. W. Baumgardner. No. 952,866; Mar. 22; Sp. p. 4923; Gaz. vol. 152; p. 886.
Emulsifier. J. Willmann. No. 973,328; Oct. 18; Sp. p. 4004; Gaz. vol. 159; p. 685.
Emulsions in water, Transforming substances soluble in alcohol into. S. Knopf. No. 978,307; Dec. 13; Sp. p. 1933; Gaz. vol. 161; p. 337.
Emulsions, Mechanism for grinding or mixing. W. G. Schröder. No. 976,699; Nov. 22; Sp. p. 5750; Gaz. vol. 160; p. 973.
Enameled ware, Porcelain-. H. T. Bush. No. 980,061; Dec. 27; Sp. p. 5717; Gaz. vol. 161; p. 983.
End-gate. W. A. Giermann. No. 967,181; Aug. 16; Sp. p. 2907; Gaz. vol. 157; p. 504.
End-gate. R. C. Lichtwald. No. 977,457; Dec. 6; Sp. p. 63; Gaz. vol. 161; p. 13.
End-gate fastener. B. F. Springer. No. 973,578; Oct. 25; Sp. p. 4545; Gaz. vol. 159; p. 792.
End-gate securing device, Wagon-. L. Hillan. No. 954,392; Apr. 5; Sp. p. 1469; Gaz. vol. 153; p. 245.
End-gate, Wagon. O. A. Burull. No. 947,193; Jan. 18; Sp. p. 4815; Gaz. vol. 150; p. 794.
End-gate, Wagon. G. W. Edson. No. 949,566; Feb. 15; Sp. p. 3747; Gaz. vol. 151; p. 651.

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End-gate, Wagon. A. W. Bowen. No. 954,075; Apr. 5; Sp. p. 789; Gaz. vol. 153; p. 137.
End-gate, Wagon. W. Plogmann. No. 962,385; June 21; Sp. p. 4492; Gaz. vol. 155; p. 775.
Energy storing and using system. G. W. Bulley. No. 958,853; May 24; Sp. p. 5310; Gaz. vol. 154; p. 894.
Engine: *See* Air-engine; Air and gas engine; Air-cooled engine; Blowing-engine; Cable-hauling engine; Combustion-engine; Compound engine; Compressed-air engine; Dental engine; Dental bracket-engine; Explosion-engine; Explosive-engine; Explosive-driven engine; Fire-engine; Fluid-pressure engine; Fluid-pressure impact-engine; Fluid-propelled direct-acting engine; Gas-engine; Gas and oil engine; Gas explosion-engine; Gas or vapor engine; Gasolene-engine; Grate-shaker engine; Heat-engine; Hoisting-engine; Internal-combustion engine; Locomotive-engine; Oil-engine; Pumping-engine; Railway-engine; Refining-engine; Rotary engine; Rotary compound steam-engine; Rotary explosion-engine; Rotary explosive-engine; Rotary gas-engine; Rotary internal-combustion engine; Rotary steam-engine; Rotary turbine-engine; Steam-engine; Traction-engine; Turbine-engine; Two-cycle engine.
Engine. M. B. Smith. No. 950,248; Feb. 22; Sp. p. 5245; Gaz. vol. 151; p. 920.
Engine. P. O. Poulson. No. 950,866; Mar. 1; Sp. p. 857; Gaz. vol. 152; p. 137.
Engine. J. A. Dowling. No. 952,311; Mar. 15; Sp. p. 3733; Gaz. vol. 152; p. 668.
Engine. F. L. Gregory. No. 954,095; Apr. 5; Sp. p. 839; Gaz. vol. 153; p. 145.
Engine. F. Manz. No. 954,982; Apr. 12; Sp. p. 2813; Gaz. vol. 153; p. 477.
Engine. G. L. Borden. No. 958,583; May 17; Sp. p. 4723; Gaz. vol. 154; p. 776.
Engine. W. E. Blair. No. 960,797; June 7; Sp. p. 1129; Gaz. vol. 155; p. 189.
Engine. F. A. Sharpneck. No. 964,702; July 19; Sp. p. 3747; Gaz. vol. 156; p. 622.
Engine. J. D. Ferry. No. 965,094; July 19; Sp. p. 4535; Gaz. vol. 156; p. 756.
Engine. A. J. Thompson. No. 969,221; Sept. 6; Sp. p. 164; Gaz. vol. 158; p. 27.
Engine. C. J. Lake. No. 971,760; Oct. 4; Sp. p. 526; Gaz. vol. 159; p. 92.
Engine. P. W. Kane. No. 976,808; Nov. 22; Sp. p. 5984; Gaz. vol. 160; p. 1011.
Engine and tool-operating mechanism, Combined. J. Weiner. No. 950,759; Mar. 1; Sp. p. 639; Gaz. vol. 152; p. 103.
Engine attachment, Automobile. O. F. Griffin. No. 965,626; July 26; Sp. p. 5703; Gaz. vol. 156; p. 969.
Engine attachment, Internal-combustion-. N. H. Heft. No. 953,382; Mar. 29; Sp. p. 6042; Gaz. vol. 152; p. 1086.
Engine-base. A. B. Shultz. No. 975,167; Nov. 8; Sp. p. 2469; Gaz. vol. 160; p. 400.
Engine breather, Explosive-. W. A. Frederick. No. 967,895; Aug. 23; Sp. p. 4353; Gaz. vol. 157; p. 768.
Engine-controlling apparatus, Hoisting-. C. R. Welch. No. 965,779; July 26; Sp. p. 6008; Gaz. vol. 156; p. 1021.
Engine-controlling device. R. V. Longtine. No. 960,653; June 7; Sp. p. 846; Gaz. vol. 155; p. 139.
Engine-controlling device, Internal-combustion-. G. C. Sweet and C. W. Weiss. No. 949,858; Feb. 22; Sp. p. 4369; Gaz. vol. 151; p. 783.
Engine-controlling device, Pressure-fluid-. A. E. Norris. No. 972,218; Oct. 11; Sp. p. 1563; Gaz. vol. 159; p. 274.
Engine-controlling mechanism, Explosive-. W. J. McVicker. No. 951,833; Mar. 15; Sp. p. 2785; Gaz. vol. 152; p. 509.
Engine cooler, Internal-combustion-. P. Weber. No. 947,424; Jan. 25; Sp. p. 5386; Gaz. vol. 150; p. 903.
Engine-cooling attachment, Explosive-. S. S. Scott. No. 973,820; Oct. 25; Sp. p. 5045; Gaz. vol. 159; p. 877.
Engine-cooling device, Gas-. J. A. Charter. No. 954,780; Apr. 12; Sp. p. 2353; Gaz. vol. 153; p. 407.
Engine-cooling device, Internal-combustion-. R. B. Vaughn. No. 971,328; Sept. 27; Sp. p. 4640; Gaz. vol. 158; p. 812.
Engine coupling, Traction-. F. M. Beydler and H. K. Kinney. No. 945,683; Jan. 4; Sp. p. 1445; Gaz. vol. 150; p. 226.
Engine cranker mechanism. W. W. Owen. No. 970,261; Sept. 13; Sp. p. 2405; Gaz. vol. 158; p. 405.
Engine cranking device, Automobile. D. Augustine. No. 976,536; Nov. 22; Sp. p. 5435; Gaz. vol. 160; p. 918.
Engine cranking device, Gasolene or other. R. Rehmeyer. No. 980,006; Dec. 27; Sp. p. 5589; Gaz. vol. 161; p. 965.
Engine cranking device, Internal-combustion-. E. Clinton. No. 977,931; Dec. 6; Sp. p. 1106; Gaz. vol. 161; p. 176.
Engine current-controlling mechanism, Internal-combustion-. L. T. Rhoades. No. 966,768; Aug. 9; Sp. p. 2035; Gaz. vol. 157; p. 338.
Engine-cylinder. G. J. Bryen. No. 958,905; May 24; Sp. p. 5443; Gaz. vol. 154; p. 912.
Engine-cylinder. H. H. Boggs. No. 974,854; Nov. 8; Sp. p. 1755; Gaz. vol. 160; p. 293.
Engine cylinder, Gas-. F. E. Norton. No. 960,385; June 7; Sp. p. 299; Gaz. vol. 155; p. 50.
Engine-cylinders, Attachment-plug for. N. M. Hopkins. No. 949,704; Feb. 15; Sp. p. 3998; Gaz. vol. 151; p. 695.
Engine cylinders, Cooling device for explosive-. F. M. Sizemore. No. 952,148; Mar. 15; Sp. p. 3406; Gaz. vol. 152; p. 614.
Engine-cylinders, Water-jacket for. E. B. Parkhurst. No. 952,576; Mar. 22; Sp. p. 4294; Gaz. vol. 152; p. 786.
Engine driven by inner-combustion motor. A. Klose. No. 949,580; Feb. 15; Sp. p. 3771; Gaz. vol. 151; p. 656.
Engine driving-gear, Traction-. W. Benson. No. 967,311; Aug. 16; Sp. p. 3160; Gaz. vol. 157; p. 547.
Engine driving-gear, Traction-. F. J. Wood. No. 978,977; Dec. 20; Sp. p. 3367; Gaz. vol. 161; p. 592.
Engine driving mechanism, Paper-refining-. F. E. Saecker. No. 951,919; Mar. 15; Sp. p. 2982; Gaz. vol. 152; p. 539.
Engine driving mechanism, Paper-refining-. S. R. and W. L. Wagg. No. 966,273; Aug. 2; Sp. p. 908; Gaz. vol. 157; p. 145.
Engine-exhaust-valve water connection, Gas-. W. P. Flint. No. 971,881; Oct. 4; Sp. p. 784; Gaz. vol. 159; p. 136.
Engine gearing, Traction-gas-. E. C. Grizzell. No. 970,493; Sept. 20; Sp. p. 2876; Gaz. vol. 158; p. 502.
Engine generating and starting apparatus, Combined gas-. J. A. Heany. No. 979,003; Dec. 20; Sp. p. 3424; Gaz. vol. 161; p. 601.
Engine having rotary piston. F. C. Krüger. No. 968,859; Aug. 30; Sp. p. 6449; Gaz. vol. 157; p. 1123.
Engine igniter, Explosion-. E. W. Stevens. No. 968,280; Aug. 23; Sp. p. 5221; Gaz. vol. 157; p. 899.
Engine igniter, Explosive-. P. Paulson. No. 970,545; Sept. 20; Sp. p. 2992; Gaz. vol. 158; p. 521.
Engine igniter, Gas-. S. F. Briggs. No. 950,126; Feb. 22; Sp. p. 4985; Gaz. vol. 151; p. 876.
Engine igniter, Gas-. G. Gray. No. 956,075; Apr. 26; Sp. p. 5174; Gaz. vol. 153; p. 911.
Engine igniter, Gas or other internal-combustion. G. Z. Smith. No. 971,413; Sept. 27; Sp. p. 4795; Gaz. vol. 158; p. 839.
Engine igniter, Gasolene-. B. O. Smith. No. 978,788; Dec. 13; Sp. p. 2957; Gaz. vol. 161; p. 500.
Engine igniting device, Internal-combustion-. R. J. Gibbon. No. 950,228; Feb. 22; Sp. p. 5209; Gaz. vol. 151; p. 913.
Engine igniting system, Explosive-. F. W. Springer. No. 960,598; June 7; Sp. p. 727; Gaz. vol. 155; p. 120.
Engine igniting system, Internal-combustion-. J. H. Friedenwald. No. 953,603; Mar. 29; Sp. p. 6505; Gaz. vol. 152; p. 1162.
Engine ignition system, Hydrocarbon-. R. Huff. No. 973,507; Oct. 25; Sp. p. 4396; Gaz. vol. 159; p. 769.
Engine ignition-timer, Internal-combustion-. F. C. Mason. No. 971,545; Oct. 4; Sp. p. 77; Gaz. vol. 159; p. 15.
Engine indicating apparatus. F. Purdy. No. 949,129; Feb. 15; Sp. p. 2846; Gaz. vol. 151; p. 503.
Engine indicator, Internal-combustion-. E. D. Meier. No. 977,419; Nov. 29; Sp. p. 7381; Gaz. vol. 160; p. 1248.
Engine indicators, Reducing-wheel for steam-. P. W. Craig. No. 945,703; Jan. 4; Sp. p. 1483; Gaz. vol. 150; p. 232.
Engine induction-conduit, Explosion-. J. G. Utz. No. 968,002; Aug. 23; Sp. p. 4587; Gaz. vol. 157; p. 804.
Engine installation, Combined reciprocating and turbine. J. Irving. No. 956,357; Apr. 26; Sp. p. 5790; Gaz. vol. 153; p. 1007.
Engine-lubricating apparatus, Steam-. E. Ryan. No. 962,859; June 28; Sp. p. 5520; Gaz. vol. 155; p. 966.
Engine-lubricating device, Gas-. F. A. Jahnke. No. 946,133; Jan. 11; Sp. p. 2463; Gaz. vol. 150; p. 411.
Engine-muffler. E. Troike. No. 950,215; Feb. 22; Sp. p. 5177; Gaz. vol. 151; p. 908.
Engine muffler, Explosive-. D. B. Smith. No. 963,822; July 12; Sp. p. 1774; Gaz. vol. 156; p. 294.
Engine muffler, Explosive-. A. M. Walstrom. No. 969,225; Sept. 6; Sp. p. 176; Gaz. vol. 158; p. 28.
Engine muffler, Explosive-. A. H. Grewe. No. 978,287; Dec. 13; Sp. p. 1891; Gaz. vol. 161; p. 331.
Engine muffler, Gas-. J. Kellington. No. 951,080; Mar. 1; Sp. p. 1248; Gaz. vol. 152; p. 205.
Engine muffler, Internal-combustion-. J. M. Werner. No. 971,424; Sept. 27; Sp. p. 4813; Gaz. vol. 158; p. 843.
Engine plant for submarine craft, Combustion-. P. Winand. No. 970,153; Sept. 13; Sp. p. 2153; Gaz. vol. 158; p. 367.
Engine power-gage, Steam-. G. Cipollina. No. 956,680; May 3; Sp. p. 378; Gaz. vol. 154; p. 62.
Engine primer, Gas-. L. R. Dalrymple. No. 957,500; May 10; Sp. p. 2147; Gaz. vol. 154; p. 371.
Engine priming device, Explosive-. B. Ruckdeschel. No. 975,639; Nov. 15; Sp. p. 3473; Gaz. vol. 160; p. 589.
Engine rebounding ignition and spacer device, Explosive-. S. D. Field. No. 966,737; Aug. 9; Sp. p. 1933; Gaz. vol. 157; p. 327.
Engine regulating apparatus. C. H. Smoot. No. 971,088; Sept. 27; Sp. p. 4157; Gaz. vol. 158; p. 734.
Engine reversing mechanism, Steam-. G. B. Petsche. No. 972,402; Oct. 11; Sp. p. 1919; Gaz. vol. 159; p. 337.
Engine safety-stop, Sawmill-. A. C. Dean. No. 975,216; Nov. 8; Sp. p. 2588; Gaz. vol. 160; p. 417.
Engine seat and cabinet, Locomotive-. J. J. Ekstrand. No. 950,441; Feb. 22; Sp. p. 5607; Gaz. vol. 151; p. 983.

Alphabetical list of inventions—Continued.

Engine spark-plug, Explosive-. J. P. White. No. 960,752; June 7; Sp. p. 1035; Gaz. vol. 155; p. 174.
Engine spark-plug, Internal-combustion-. J. E. Seeley. No. 978,494; Dec. 13; Sp. p. 2328; Gaz. vol. 161; p. 401.
Engine sparking device, Internal-combustion-. L. K. Leahy. No. 950,001; Feb. 22; Sp. p. 4725; Gaz. vol. 151; p. 835.
Engine sparking plug, Explosive-. C. F. Jones. No. 965,585; July 26; Sp. p. 5606; Gaz. vol. 156; p. 954.
Engine sparking plug, Internal-combustion-. W. H. Horner. No. 963,564; July 5; Sp. p. 1208; Gaz. vol. 156; p. 185.
Engine sparking plug, Internal-combustion-. R. F. Hall. No. 976,797; Nov. 22; Sp. p. 5968; Gaz. vol. 160; p. 1008.
Engine speed-regulator, Explosive-. P. Langer. No. 966,567; Aug. 9; Sp. p. 1583; Gaz. vol. 157; p. 270.
Engine-starter. E. N. Rittase. No. 956,646; May 3; Sp. p. 304; Gaz. vol. 154; p. 50.
Engine-starter. E. C. Allison. No. 973,738; Oct. 25; Sp. p. 4883; Gaz. vol. 159; p. 848.
Engine-starter. F. C. Priestly. No. 977,043; Nov. 29; Sp. p. 6551; Gaz. vol. 160; p. 1118.
Engine starter, Explosive-. G. Burson. No. 960,072; May 31; Sp. p. 7925; Gaz. vol. 154; p. 1330.
Engine starter, Gas-. G. L. Odenbrett. No. 945,245; Jan. 4; Sp. p. 499; Gaz. vol. 150; p. 81.
Engine starter, Gas-. F. H. Armstrong. No. 945,738; Jan. 11; Sp. p. 1614; Gaz. vol. 150; p. 273.
Engine starter, Gas-. G. C. Hicks, Jr. No. 956,852; May 3; Sp. p. 770; Gaz. vol. 154; p. 122.
Engine starter, Gas-. F. T. Sweigart. No. 969,756; Sept. 6; Sp. p. 1298; Gaz. vol. 158; p. 208.
Engine starter, Gasolene-. E. A. Gardner. No. 950,848; Mar. 1; Sp. p. 825; Gaz. vol. 152; p. 132.
Engine starter, Hydrocarbon-. O. Brisbois. No. 959,990; May 31; Sp. p. 7727; Gaz. vol. 154; p. 1302.
Engine starter, Hydrocarbon-. C. Brisbois. No. 960,493; June 7; Sp. p. 509; Gaz. vol. 155; p. 85.
Engine starter, Hydrocarbon-. J. B. Runner. No. 974,525; Nov. 1; Sp. p. 1034; Gaz. vol. 160; p. 154.
Engine starter, Internal-combustion-. D. S. Anthony. No. 971,482; Sept. 27; Sp. p. 4916; Gaz. vol. 158; p. 861.
Engine starting and reversing mechanism, Gas-. J. V. Rice, Jr. No. 967,559; Aug. 16; Sp. p. 3676; Gaz. vol. 157; p. 632.
Engine starting and stopping mechanism, Internal-combustion-. J. B. Polo. No. 957,372; May 10; Sp. p. 1887; Gaz. vol. 154; p. 328.
Engine-starting apparatus, Gas-. C. H. Oslund. No. 975,567; Nov. 15; Sp. p. 3324; Gaz. vol. 160; p. 564.
Engine-starting apparatus, Gasolene-. V. Morrill. No. 962,653; June 28; Sp. p. 5103; Gaz. vol. 155; p. 892.
Engine-starting device. J. T. Barber. No. 952,405; Mar. 15; Sp. p. 3906; Gaz. vol. 152; p. 699.
Engine-starting device. J. W. Tudor. No. 955,017; Apr. 12; Sp. p. 2884; Gaz. vol. 153; p. 488.
Engine-starting device. H. C. Colhower and J. T. Sainsbury. No. 959,997; May 31; Sp. p. 7743; Gaz. vol. 154; p. 1305.
Engine-starting device. P. W. Hodgkinson. No. 969,162; Sept. 6; Sp. p. 20; Gaz. vol. 158; p. 7.
Engine-starting device. J. W. Tudor. No. 974,844; Nov. 8; Sp. p. 1722; Gaz. vol. 160; p. 289.
Engine-starting device. P. P. Au Buchon. No. 978,264; Dec. 13; Sp. p. 1840; Gaz. vol. 161; p. 322.
Engine-starting device, Explosion-. G. M. Davis. No. 952,788; Mar. 22; Sp. p. 4769; Gaz. vol. 152; p. 859.
Engine-starting device, Explosion-. E. N. Pagelsen. No. 960,690; June 7; Sp. p. 923; Gaz. vol. 155; p. 153.
Engine-starting device, Gas-. W. A. Hensen. No. 977,007; Nov. 29; Sp. p. 6485; Gaz. vol. 160; p. 1106.
Engine-starting device, Internal-combustion-. R. J. Gibbon. No. 950,206; Feb. 22; Sp. p. 5159; Gaz. vol. 151; p. 905.
Engine-starting device, Internal-combustion-. W. Oberg. No. 953,223; Mar. 29; Sp. p. 5685; Gaz. vol. 152; p. 1033.
Engine-starting device, Internal-combustion-. J. B. Dickey. No. 958,909; May 24; Sp. p. 5454; Gaz. vol. 154; p. 913.
Engine-starting device, Internal-combustion-. F. H. Walker. No. 969,815; Sept. 13; Sp. p. 1459; Gaz. vol. 158; p. 252.
Engine-starting jack. W. C. Byington. No. 947,294; Jan. 25; Sp. p. 5073; Gaz. vol. 150; p. 858.
Engine-starting lever, Explosive-. R. McKee. No. 969,798; Sept. 13; Sp. p. 1401; Gaz. vol. 158; p. 246.
Engine-starting means, Hydrocarbon-. R. Odell. No. 968,593; Aug. 30; Sp. p. 5864; Gaz. vol. 157; p. 1034.
Engine-starting mechanism. F. D. James. No. 959,014; May 24; Sp. p. 5641; Gaz. vol. 154; p. 948.
Engine-starting mechanism, Explosion-. S. Jachimovicz. No. 974,972; Nov. 8; Sp. p. 2044; Gaz. vol. 160; p. 334.
Engine-starting mechanism, Explosive-. C. E. Reddig. No. 959,070; May 24; Sp. p. 5775; Gaz. vol. 154; p. 967.
Engine-starting mechanism, Explosive-. R. McKee. No. 979,530; Dec. 27; Sp. p. 4553; Gaz. vol. 161; p. 803.
Engine-starting mechanism, Gas-. A. B. Keyes. No. 964,649; July 19; Sp. p. 3530; Gaz. vol. 156; p. 604.
Engine-starting mechanism, Internal-combustion-. L. Yost. No. 964,138; July 12; Sp. p. 2442; Gaz. vol. 156; p. 401.
Engine-stop. C. Dewees. No. 954,381; Apr. 5; Sp. p. 1449; Gaz. vol. 153; p. 241.
Engine-stop. F. Henneböble. No. 974,266; Nov. 1; Sp. p. 417; Gaz. vol. 160; p. 62.
Engine-stop, Automatic. N. C. Locke. No. 956,380; Apr. 26; Sp. p. 5843; Gaz. vol. 153; p. 1015.
Engine timer, Gas-. B. M. Aslakson. No. 968,635; Aug. 30; Sp. p. 5956; Gaz. vol. 157; p. 1049.
Engine timer, Internal-combustion-. J. A. Schneider. No. 957,109; May 3; Sp. p. 1300; Gaz. vol. 154; p. 207.
Engine vaporizer, Hydrocarbon-. E. P. Lamb. No. 964,657; July 19; Sp. p. 3544; Gaz. vol. 156; p. 607.
Engine vaporizer, Internal-combustion-. W. M. Harpster. No. 979,667; Dec. 27; Sp. p. 4853; Gaz. vol. 161; p. 851.
Engine water-cooled piston, Gas-. G. B. Petsche. No. 967,551; Aug. 16; Sp. p. 3661; Gaz. vol. 157; p. 630.
Engine wheels, Extension-rim for traction-. T. Schele. No. 962,672; June 28; Sp. p. 5141; Gaz. vol. 155; p. 899.
Engines, Accessory for internal-combustion. E. D. Means. No. 963,612; July 5; Sp. p. 1307; Gaz. vol. 156; p. 201.
Engines, Air and gas mixer for explosive-. G. L. Fogler. No. 954,507; Apr. 12; Sp. p. 1733; Gaz. vol. 153; p. 311.
Engines and turbines, Charge-forming arrangement for use in internal-combustion. A. M. Low. No. 974,087; Oct. 25; Sp. p. 5593; Gaz. vol. 159; p. 969.
Engines, Apparatus for starting motor-car or the like. S. H. Boswell. No. 970,604; Sept. 20; Sp. p. 3112; Gaz. vol. 158; p. 542.
Engines, Attachment for controlling the fuel-supply of internal-combustion. G. and F. Deeg. No. 963,526; July 5; Sp. p. 1134; Gaz. vol. 156; p. 172.
Engines, Automatic steering device for traction-. J. B. Rogers. No. 950,604; Mar. 1; Sp. p. 295; Gaz. vol. 152; p. 49.
Engines, Automatic steering means for plow-. C. A. Prinz. No. 952,017; Mar. 15; Sp. p. 3166; Gaz. vol. 152; p. 570.
Engines, Automatic switch for reversing gas-. J. M. Rhett. No. 950,704; Mar. 1; Sp. p. 523; Gaz. vol. 152; p. 82.
Engines, Automatic throttle-controlling device for. J. W. Briggs. No. 946,493; Jan. 11; Sp. p. 3343; Gaz. vol. 150; p. 537.
Engines, Auxiliary liquid-hydrocarbon tank for internal-combustion. A. E. Ranney. No. 973,880; Oct. 25; Sp. p. 5176; Gaz. vol. 159; p. 899.
Engines, Charge-forming device for internal-combustion. H. Cassedy, Sr., and R. S. Purser. No. 971,971; Oct. 4; Sp. p. 1028; Gaz. vol. 159; p. 171.
Engines, Combined charging and feeding device for gasolene-. L. W. Witry. No. 979,238; Dec. 20; Sp. p. 3971; Gaz. vol. 161; p. 684.
Engines, Composition of matter for prevention and removal of incrustation in explosive-. E. W. Caulfield. No. 974,749; Nov. 1; Sp. p. 1524; Gaz. vol. 160; p. 234.
Engines, Compounding and condensing apparatus for locomotive-. L. D. Copeland. No. 976,554; Nov. 22; Sp. p. 5476; Gaz. vol. 160; p. 925.
Engines, Compression-regulator for gas-. J. B. Brown. No. 970,462; Sept. 20; Sp. p. 2808; Gaz. vol. 158; p. 491.
Engines, Compression-release for internal-combustion. F. J. Miller. No. 962,160; June 21; Sp. p. 4038; Gaz. vol. 155; p. 701.
Engines, Compression-tester for explosive-. J. Desmond. No. 946,661; Jan. 18; Sp. p. 3688; Gaz. vol. 150; p. 617.
Engines, Controlling combustion-. P. Winand. No. 970,154; Sept 13; Sp. p. 2155; Gaz. vol. 158; p. 367.
Engines, Cooling arrangement for motor-boat. A. S. Morgan. No. 968,385; Aug. 23; Sp. p. 5429; Gaz. vol. 157; p. 936.
Engines, Cooling system for internal-combustion. T. Odee. No. 964,542; July 19; Sp. p. 3299; Gaz. vol. 156; p. 566.
Engines, Crank connection for multicylinder-. F. A. Edmunds and N. G. Warming. No. 962,200; June 21; Sp. p. 4118; Gaz. vol. 155; p. 714.
Engines, Cranking device for internal-combustion. R. C. Hilton. No. 947,494; Jan. 25; Sp. p. 5576; Gaz. vol. 150; p. 926.
Engines, Cranking device for internal-combustion. C. R. Hall. No. 974,136; Nov. 1; Sp. p. 58; Gaz. vol. 160; p. 13.
Engines, Current-controlling mechanism for internal-combustion. L. T. Rhoades. No. 955,204; Apr. 19; Sp. p. 3254; Gaz. vol. 153; p. 583.
Engines, Device for controlling power of explosive-. J. H. Schoop. No 955,916; Apr. 26; Sp. p. 4828; Gaz. vol. 153; p. 854.
Engines, Device for tool-holders in cutting-. A. Philibert. No. 973,695; Oct. 25; Sp. p. 4800; Gaz. vol. 159; p. 834.
Engines, Driving mechanism for paper-refining. S. R. and W. L. Wagg. No. 965,771; July 26; Sp. p. 5991; Gaz. vol. 156; p. 1018.
Engines, Drum for donkey-. P. Soule. No. 969,146; Aug. 30; Sp. p. 7031; Gaz. vol. 157; p. 1223.
Engines, Electric igniter or breaker for gas-. A. F. Clarke. No. 954,168; Apr. 5; Sp. p. 1002; Gaz. vol. 153; p. 169.

Engines, Electric ignition apparatus for internal-combustion. F. H. Alston. No. 979,912; Dec. 27; Sp. p. 5405; Gaz. vol. 161; p. 934.
Engines, Electric ignition device for internal-combustion. H. Batt. No. 969,327; Sept. 6; Sp. p. 371; Gaz. vol. 158; p. 60.
Engines, Exhaust-manifold or pipe connection for explosion-. A. B. Shultz. No. 976,610; Nov. 22; Sp. p. 5583; Gaz. vol. 160; p. 944.
Engines, Filler or junk plate for the crank-cases of explosive-. G. W. Marble. No. 962,445; June 28; Sp. p. 4654; Gaz. vol. 155; p. 822.
Engines, Frame construction for gas-. J. A. Charter. No. 955,632; Apr. 19; Sp. p. 4182; Gaz. vol. 153; p. 728.
Engines, Igniter-gear for explosive-. O. J. Bates. No. 946,816; Jan. 18; Sp. p. 4045; Gaz. vol. 150; p. 671.
Engines, Ignition magneto mechanism for air-started internal-combustion. C. E. Sargent. No. 961,648; June 14; Sp. p. 2906; Gaz. vol. 155; p. 503.
Engines, Ignition means for internal-combustion. M. B. Crist. No. 975,512; Nov. 15; Sp. p. 3200; Gaz. vol. 160; p. 545.
Engines, Ignition-timer for internal-combustion. F .C. Mason. No. 966,034; Aug. 2; Sp. p. 412; Gaz. vol. 157; p. 66.
Engines, Lubricating system for. A. J. Liberty. No. 952,824; Mar. 22; Sp. p. 4844; Gaz. vol. 152; p. 872.
Engines, Magneto-ignition device for use in connection with internal-combustion. W. Mulholland. No. 979,328; Dec. 20; Sp. p. 4142; Gaz. vol. 161; p. 714.
Engines, Magneto-machine for use in connection with the ignition systems of internal-combustion. R. F. Hall. No. 972,692; Oct. 11; Sp. p. 2566; Gaz. vol. 159; p. 437.
Engines, Manifold for internal-combustion. M. B. Rice. No. 974,992; Nov. 8; Sp. p. 2090; Gaz. vol. 160; p. 340.
Engines, Means for cooling the cylinders of internal-combustion. L. Durand. No. 967,117; Aug. 9; Sp. p. 2778; Gaz. vol. 157; p. 455.
Engines, Means for electrically heating water-cooled combustion-. A. A. Low and A. Wassmann. No. 968,780; Aug. 30; Sp. p. 6293; Gaz. vol. 157; p. 1098.
Engines, Means for facilitating the starting of internal-combustion. F. Purdy. No. 961,077; June 7; Sp. p. 1697; Gaz. vol. 155; p. 282.
Engines, Means for facilitating the starting of internal-combustion. F. Purdy. No. 976,493; Nov. 22; Sp. p. 5338; Gaz. vol. 160; p. 905.
Engines, Means for preventing backward rotation of two-cycle. J. G. Callan. No. 949,994; Feb. 22; Sp. p. 4708; Gaz. vol. 151; p. 832.
Engines, Method of and apparatus for operating gas-. C. White. No. 975,008; Nov. 8; Sp. p. 2124; Gaz. vol. 160; p. 346.
Engines, Operating combustion-. P. Winand. No. 970,152; Sept. 13; Sp. p. 2151; Gaz. vol. 158; p. 366.
Engines, Operating compound compressed-air. C. B. Hodges. No. 953,334; Mar. 29; Sp. p. 5920; Gaz. vol. 152; p. 1069.
Engines, Operating compound compressed-air. C. B. Hodges. No. 953,335; Mar. 29; Sp. p. 5923; Gaz. vol. 152; p. 1069.
Engines, Operating explosive-. P. L'Orange. No. 959,951; May 31; Sp. p. 7640; Gaz. vol. 154; p. 1288.
Engines, Operating oil-. E. Higgins. No. 952,430; Mar. 15; Sp. p. 3955; Gaz. vol. 152; p. 708.
Engines, Safety apparatus for hoisting-. D. F. Lepley. No. 949,022; Feb. 15; Sp. p. 2630; Gaz. vol. 151; p. 469.
Engines, Safety apparatus for hoisting-. D. F. Lepley. No. 949,023; Feb. 15; Sp. p. 2635; Gaz. vol. 151; p. 469.
Engines, Safety attachment for hoisting-. A. L. Le Grand. No. 946,236; Jan. 11; Sp. p. 2696; Gaz. vol. 150; p. 448.
Engines, Safety device for cranking explosive-. C. W. Hillenbrand. No. 953,831; Apr. 5; Sp. p. 296; Gaz. vol. 153; p. 53.
Engines, Silencer for explosive-. P. A. de Grandsagne. No. 947,431; Jan. 25; Sp. p. 5405; Gaz. vol. 150; p. 905.
Engines, Spark-plug for explosive-. M. T. Minogue. No. 973,873; Oct. 25; Sp. p. 5163; Gaz. vol. 159; p. 897.
Engines, Spark-timing device for explosive-. E. A. Cooper. No. 976,345; Nov. 22; Sp. p. 5018; Gaz. vol. 160; p. 852.
Engines, Speed regulator and timer for explosive-. J. F. Murphy. No. 955,667; Apr. 19; Sp. p. 4277; Gaz. vol. 153; p. 739.
Engines, Spraying device for internal-combustion. H. W. Pogue. No. 972,571; Oct. 11; Sp. p. 2319; Gaz. vol. 159; p. 397.
Engines, Starting and stopping device for gas and other. T. W. Ellis. No. 947,437; Jan. 25; Sp. p. 5413; Gaz. vol. 150; p. 907.
Engines, Starting explosion-. J. E. Mallvert. No. 947,021; Jan. 18; Sp. p. 4500; Gaz. vol. 150; p. 741.
Engines, Supplying fuel to heat-. G. F. Jaubert. No. 965,632; July 26; Sp. p. 5713; Gaz. vol. 156; p. 971.
Engines, System of bracing for traction-. W. H. Engle. No. 947,099; Jan. 18; Sp. p. 4639; Gaz. vol. 150; p. 765.
Engines, Timer for combustion-. P. B. Fant. No. 956,324; Apr. 26; Sp. p. 5728; Gaz. vol. 153; p. 997.
Engines, Throttle-operating mechanism for explosive-. A. Winton and H. B. Anderson. No. 952,398; Mar. 15; Sp. p. 3894; Gaz. vol. 152; p. 697.
Engines, Timer for internal-combustion. L. C. Chowning. No. 949,392; Feb. 15; Sp. p. 3402; Gaz. vol. 151; p. 594.
Engines, Transmission and steering mechanism for traction-. R. W. Peterson and A. Schelling. No. 971,471; Sept. 27; Sp. p. 4901; Gaz. vol. 158; p. 858.
Engines, Trip-lock for use in starting explosive-. N. De Wind. No. 970,475; Sept. 20; Sp. p. 2842; Gaz. vol. 158; p. 496.
Engines, Vaporizer or carbureter for gas-. C. D. Shain. No. 963,081; July 5; Sp. p. 111; Gaz. vol. 156; p. 20.
Engines, Variable-exhaust nozzle for. F. Hamilton and C. R. Twyman. No. 977,301; Nov. 29; Sp. p. 7096; Gaz. vol. 160; p. 1207.
Engines, Water-jacket for explosive-. J. F. and H. E. Dodge. No. 968,545; Aug. 30; Sp. p. 5772; Gaz. vol. 157; p. 1016.
Engraved plates, Mount or block for. J. P. Sutherland. No. 954,223; Apr. 5; Sp. p. 1135; Gaz. vol. 153; p. 188.
Engraver's block. J. A. Bowers. No. 973,617; Oct. 25; Sp. p. 4629; Gaz. vol. 159; p. 805.
Engraver's tool. A. S. Koch. No. 951,535; Mar. 8; Sp. p. 2184; Gaz. vol. 152; p. 379.
Engraving-machine. R. Grieser. No. 955,868; Apr. 26; Sp. p. 4721; Gaz. vol. 153; p. 838.
Engraving-machine. G. T. Summers. No. 957,912; May 17; Sp. p. 3019; Gaz. vol. 154; p. 541.
Engraving-machine. J. P. Stevens. No. 962,062; June 21; Sp. p. 3794; Gaz. vol. 155; p. 666.
Engraving-machine. R. H. Kirk. No. 962,439; June 28; Sp. p. 4637; Gaz. vol. 155; p. 819.
Engraving-machine. H. F. Whedon. No. 962,686; June 28; Sp. p. 5165; Gaz. vol. 155; p. 904.
Engraving-machine. W. Steers. No. 972,033; Oct. 4; Sp. p. 1147; Gaz. vol. 159; p. 192.
Engraving-machine. V. L. Ourdan. No. 977,829; Dec. 6; Sp. p. 889; Gaz. vol. 161; p. 140.
Engraving, Photomechanical process of. H. L. Reckard. No. 962,097; June 21; Sp. p. 3876; Gaz. vol. 155; p. 678.
Engraving, Photomechanical process of. H. L. Reckard. No. 962,098; June 21; Sp. p. 3880; Gaz. vol. 155; p. 679.
Engraving, Process of. H. L. Reckard. No. 962,096; June 21; Sp. p. 3871; Gaz. vol. 155; p. 677.
Envelop. A. R. Spear. No. 946,689; Jan. 18; Sp. p. 3749; Gaz. vol. 150; p. 627.
Envelop. S. D. Chelf. No. 952,875; Mar. 22; Sp. p. 4941; Gaz. vol. 152; p. 889.
Envelop. N. Toomer. No. 956,786; May 3; Sp. p. 609; Gaz. vol. 154; p. 98.
Envelop. H. D. Naum. No. 958,523; May 17; Sp. p. 4611; Gaz vol. 154; p. 756.
Envelop. A. B. Rippetoe. No. 958,543; May 17; Sp. p. 4643; Gaz. vol. 154; p. 763.
Envelop. L. C. Van Riper. No. 958,785; May 24; Sp. p. 5152; Gaz. vol. 154; p. 868.
Envelop. O. J. Olm. No. 958,819; May 24; Sp. p. 5227; Gaz. vol. 154; p. 882.
Envelop. J. W. Tyiska. No. 958,981; May 24; Sp. p. 5581; Gaz. vol. 154; p. 938.
Envelop. F. L. Norman. No. 960,384; June 7; Sp. p. 298; Gaz. vol. 155; p. 50.
Envelop. W. E. Gilmore. No. 964,234; July 12; Sp. p. 2630; Gaz. vol. 156; p. 433.
Envelop. A. Keroff. No. 965,197; July 26; Sp. p. 4743; Gaz. vol. 156; p. 820.
Envelop. J. J. Zasmeta. No. 965,269; July 26; Sp. p. 4887; Gaz. vol. 156; p. 844.
Envelop. F. B. Robertson. No. 969,982; Sept. 13; Sp. p. 1812; Gaz. vol. 158; p. 308.
Envelop. S. T. Wingeier. No. 972,045; Oct. 4; Sp. p. 1168; Gaz. vol. 159; p. 197.
Envelop. W. S. Brown. No. 974,117; Nov. 1; Sp. p. 22; Gaz. vol. 160; p. 6.
Envelop. W. A. McCloy. No. 975,627; Nov. 15; Sp. p. 3444; Gaz vol. 160; p. 585.
Envelop. J. H. Wittmann. No. 978,421; Dec. 13; Sp. p. 2175; Gaz. vol. 161; p. 377.
Envelop and advertising device. J. G. Patton. No. 958,166; May 17; Sp. p. 3744; Gaz. vol. 154; p. 633.
Envelop and advertising device, Theater-ticket. J. G. Patton. No. 954,336; Apr. 5; Sp. p. 1369; Gaz. vol. 153; p. 227.
Envelop-blank-cutting die. B. B. McFadden. No. 953,220; Mar. 29; Sp. p. 5677; Gaz. vol. 152; p. 1032.
Envelop-closing machine. I. Michel. No. 979,535; Dec. 27; Sp. p. 4565; Gaz. vol. 161; p. 805.
Envelop-cutter. C. A. Fischer. No. 950,099; Feb. 22; Sp. p. 4930; Gaz. vol. 151; p. 868.
Envelop, Double. A. E. Harker. No. 956,343; Apr. 26; Sp. p. 5766; Gaz. vol. 153; p. 1003.
Envelop, Double-flap. G. W. Cox. No. 950,371; Feb. 22; Sp. p. 5475; Gaz. vol. 151; p. 959.
Envelop, Expansion-. R. W. Pittman. No. 975,792; Nov. 15; Sp. p. 3795; Gaz. vol. 160; p. 639.
Envelop-fastener. E. B. Stimpson. No. 954,479; Apr. 12; Sp. p. 1670; Gaz. vol. 153; p. 302.

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Envelop-loading machine. J. R. Williams and W. C. Briggs. No. 964,077; July 12; Sp. p. 2311; Gaz. vol. 156; p. 380.
Envelop-loading machines, &c., Cutting mechanism for. J. R. Williams and W. C. Briggs. No. 971,713; Oct. 4; Sp. p. 421; Gaz. vol. 159; p. 73.
Envelop-machine. S. A. Grant. No. 945,386; Jan. 4; Sp. p. 826; Gaz. vol. 150; p. 128.
Envelop-machine. M. A. Stewart. No. 962,927; June 28; Sp. p. 5643; Gaz. vol. 155; p. 988.
Envelop-machine. A. J. Ackerman. No. 974,621; Nov. 1; Sp. p. 1238; Gaz. vol. 160; p. 190.
Envelop-machine. G. P. Taylor. No. 977,758; Dec. 6; Sp. p. 738; Gaz. vol. 161; p. 116.
Envelop-machine, Rotary. C. de Lukacsevics. No. 945,181; Jan. 4; Sp. p. 356; Gaz. vol. 150; p. 60.
Envelop-machine, Rotary. C. De Lukacsevics. No. 979,775; Dec. 27; Sp. p. 5094; Gaz. vol. 161; p. 887.
Envelop-machines, Discharging device for. F. L. Schmidt. No. 956,736; May 3; Sp. p. 507; Gaz. vol. 154; p. 82.
Envelop-machines, Gum-roll governor for. A. Laubscher. No. 962,153; June 21; Sp. p. 4020; Gaz. vol. 155; p. 698.
Envelop-making machine. P. H. Farrell. No. 972,176; Oct. 11; Sp. p. 1445; Gaz. vol. 159; p. 259.
Envelop-opener. O. A. Roed. No. 954,884; Apr. 12; Sp. p. 2613; Gaz. vol. 153; p. 444.
Envelop-opener. H. J. Evon. No. 973,347; Oct. 18; Sp. p. 4042; Gaz. vol. 159; p. 692.
Envelop-opening machine, Sealed-. J. A. Byrnes. No. 965,868; Aug. 2; Sp. p. 41; Gaz. vol. 157; p. 9.
Envelop, remittance-sheet, and check, Combined. J. G. Cohen. No. 977,782; Dec. 6; Sp. p. 800; Gaz. vol. 161; p. 124.
Envelop, Safety-. R. W. Brown. No. 947,369; Jan. 25; Sp. p. 5268; Gaz. vol. 150; p. 885.
Envelop, Safety-. M. A. Evans. No. 949,651; Feb. 15; Sp. p. 3896; Gaz. vol. 151; p. 679.
Envelop, Safety-. C. Nielsen. No. 952,934; Mar. 22; Sp. p. 5060; Gaz. vol. 152; p. 909.
Envelop, Safety-. A. C. Cooke. No. 966,383; Aug. 2; Sp. p. 1113; Gaz. vol. 157; p. 180.
Envelop, Safety-. S. H. Loeffler. No. 966,934; Aug. 9; Sp. p. 2383; Gaz. vol. 157; p. 390.
Envelop, Safety-. B. J. Cagnoli. No. 968,738; Aug. 30; Sp. p. 6209; Gaz. vol. 157; p. 1085.
Envelop, Safety-. A. Mieden. No. 971,461; Sept. 27; Sp. p. 4880; Gaz. vol. 158; p. 855.
Envelop, Souvenir-. I. F. Farlow. No. 946,117; Jan. 11; Sp. p. 2435; Gaz. vol. 150; p. 406.
Envelops, Machine for applying metallic fasteners to. W. E. Swift. No. 965,252; July 26; Sp. p. 4853; Gaz. vol. 156; p. 838.
Envelops, paper bags, or the like, Plant for the manufacture of. R. E. Fischer and M. Wescher. No. 952,986; Mar. 22; Sp. p. 5153; Gaz. vol. 152; p. 925.
Envelops, Supporting device for fruit-protecting. V. C. Freeman. No. 946,897; Jan 18; Sp. p. 4254; Gaz. vol. 150; p. 699.
Equalizer. H. F. Brandes. No. 946,422; Jan. 11; Sp. p. 3191; Gaz. vol. 150; p. 513.
Equalizer, Four-horse. W. Mitchell. No. 962,234; June 21; Sp. p. 4174; Gaz. vol. 155; p. 725.
Equalizer, Four-horse. C. F. Wille. No. 969,928; Sept. 13; Sp. p. 1693; Gaz. vol. 158; p. 291.
Equalizer, Three-horse. W. L. Carey. No. 976,149; Nov. 22; Sp. p. 4523; Gaz. vol. 160; p. 784.
Equalizing device. A. F. Rockwell. No. 962,252; June 21; Sp. p. 4212; Gaz. vol. 155; p. 731.
Equalizing-wheels. F. F. Waechter. No. 966,272; Aug. 2; Sp. p. 906; Gaz. vol. 157; p. 145.
Eraser. T. H. Costello. No. 945,377; Jan. 4; Sp. p. 811; Gaz. vol. 150; p. 125.
Eraser. E. E. McSweeney and H. E. Seeley. No. 948,822; Feb. 8; Sp. p. 2218; Gaz. vol. 151; p. 375.
Eraser and pencil-sharpener, Combination. C. H. Marshall. No. 967,946; Aug. 23; Sp. p. 4460; Gaz. vol. 157; p. 784.
Eraser and pencil-sharpener, Combined. H. E. Bryant. No. 970,984; Sept. 20; Sp. p. 3923; Gaz. vol. 158; p. 670.
Eraser, Blackboard-. H. W. Mitchell. No. 948,184; Feb. 1; Sp. p. 827; Gaz. vol. 151; p. 136.
Eraser-cleaner. E. A. Robinson. No. 951,338; Mar. 8; Sp. p. 1779; Gaz. vol. 152; p. 313.
Eraser for type-writing machines. D. M. Lemon. No. 979,316; Dec. 20; Sp. p. 4118; Gaz. vol. 161; p. 709.
Eraser, Type-writer. J. J. Hyer. No. 965,144; July 19; Sp. p. 4628; Gaz. vol. 156; p. 772.
Erasing-material holder. G. P. Kingsbury. No. 961,141; June 14; Sp. p. 1812; Gaz. vol. 155; p. 329.
Escalator. G. L. Bennett. No. 967,710; Aug. 16; Sp. p. 3973; Gaz. vol. 157; p. 682.
Escapement mechanism. O. Eggebrecht. No. 969,530; Sept. 6; Sp. p. 810; Gaz. vol. 158; p. 127.
Escapement-regulator. F. Ecaubert. No. 965,507; July 26; Sp. p. 5416; Gaz. vol. 156; p. 926.
Escapement-regulator, Compensating. F. Ecaubert. No. 965,503; July 26; Sp. p. 5401; Gaz. vol. 156; p. 924.
Escapement-regulator, Compensating. F. Ecaubert. No. 965,504; July 26; Sp. p. 5403; Gaz. vol. 156; p. 925.
Ester from chaulmoogra-oil. L. Taub. No. 957,633; May 10; Sp. p. 2406; Gaz. vol. 154; p. 417.
Etching apparatus. A. Holmström. No. 979,071; Dec. 20; Sp. p. 3562; Gaz. vol. 161; p. 623.
Etching-machine. A. R. Smith and J. F. Ahle. No. 964,126; July 12; Sp. p. 2421; Gaz. vol. 156; p. 397.
Etching printing-plates, Apparatus for. W. J. Holt. No. 962,839; June 28; Sp. p. 5482; Gaz. vol. 155; p. 958.
Ether and alcohol, Apparatus for recovering. C. Crepelle-Fontaine. No. 951,067; Mar. 1; Sp. p. 1222; Gaz. vol. 152; p. 201.
Eucalyptus-oil solution and manufacture thereof. A. M. Cox. No. 971,359; Sept. 27; Sp. p. 4706; Gaz. vol. 158; p. 822.
Eugenol and albumin, Preparation of. H. Belart. No. 973,908; Oct. 25; Sp. p. 5240; Gaz. vol. 159; p. 908.
Evaporating apparatus. C. W. Zastrow. No. 964,359; July 12; Sp. p. 2875; Gaz. vol. 156; p. 474.
Evaporating apparatus. S. M. Lillie. No. 972,880; Oct. 18; Sp. p. 2985; Gaz. vol. 159; p. 529.
Evaporating apparatus, Brine-. J. Hodgkinson. No. 979,301; Dec. 20; Sp. p. 4092; Gaz. vol. 161; p. 704.
Evaporating apparatus, Liquid-. P. Thelen and J. B. Speed. No. 945,640; Jan. 4; Sp. p. 1357; Gaz. vol. 150; p. 211.
Evaporating apparatus, Multiple-effect. S. M. Lillie. No. 948,376; Feb. 8; Sp. p. 1256; Gaz. vol. 151; p. 227.
Evaporating or concentrating liquids, Apparatus for. E. Shaw. No. 965,759; July 26; Sp. p. 5966; Gaz. vol. 156; p. 1014.
Evaporating solutions. O. Mantius. No. 951,322; Mar. 8; Sp. p. 1755; Gaz. vol. 152; p. 308.
Evaporating solutions, Apparatus for. S. M. Lillie. No. 980,108; Dec. 27; Sp. p. 5834; Gaz. vol. 161; p. 998.
Evaporation and apparatus therefor, Method of. N. H. Hiller. No. 955,965; Apr. 26; Sp. p. 4933; Gaz. vol. 153; p. 872.
Evaporation-boiler with inclined tubes. C. Prache. No. 972,572; Oct. 11; Sp. p. 2320; Gaz. vol. 159; p. 397.
Evaporation, Method of and apparatus for. N. H. Hiller. No. 970,051; Sept. 13; Sp. p. 1965; Gaz. vol. 158; p. 334.
Evaporator. J. F. Hanrahan and H. A. Wende. No. 948,322; Feb. 8; Sp. p. 1127; Gaz. vol. 151; p. 207.
Evaporator. P. Kestner. No. 965,388; July 26; Sp. p. 5152; Gaz. vol. 156; p. 884.
Evaporator. A. S. Morris. No. 965,395; July 26; Sp. p. 5170; Gaz. vol. 156; p. 887.
Evaporator. J. E. Dunn. No. 971,258; Sept. 27; Sp. p. 4514; Gaz. vol. 158; p. 789.
Evaporator. R. Sauerbrei. No. 978,490; Dec. 13; Sp. p. 2320; Gaz. vol. 161; p. 400.
Evaporator. J. E. Dunn. No. 978,993; Dec. 20; Sp. p. 3400; Gaz. vol. 161; p. 598.
Evaporator feeding device. A. S. Morris. No. 971,394; Sept. 27; Sp. p. 4765; Gaz. vol. 158; p. 833.
Evaporator feeding device. A. S. Morris. No. 971,395; Sept. 27; Sp. p. 4767; Gaz. vol. 158; p. 833.
Evaporator-heater. G. H. Grimm. No 962,830; June 28; Sp. p. 5467; Gaz. vol. 155; p. 955.
Evaporator, Maple-sap. S. Daniels. No. 974,475; Nov. 1; Sp. p. 918; Gaz. vol. 160; p. 136.
Evaporator, Soda-lye. C. P. Carlson. No. 964,390; July 12; Sp. p. 2935; Gaz. vol. 156; p. 485.
Evener-coupling. G. F. Thompson. No. 948,487; Feb. 8; Sp. p. 1495; Gaz. vol. 151; p. 264.
Examining matter or objects in quantities, Apparatus for. J. I. Solomon. No. 961,322; June 14; Sp. p. 2239; Gaz. vol. 155; p. 394.
Excavating and conveying apparatus. J. L. Potter. No. 970,750; Sept. 20; Sp. p. 3458; Gaz. vol. 158; p. 592.
Excavating and loading gravel and the like, System of devices for. W. H. Compton. No. 967,613; Aug. 16; Sp. p. 3786; Gaz. vol. 157; p. 650.
Excavating and loading machine. L. Kercher. No. 971,540; Oct. 4; Sp. p. 59; Gaz. vol. 159; p. 13.
Excavating apparatus. J. J. Prendergast. No. 945,414; Jan. 4; Sp. p. 887; Gaz. vol. 150; p. 138.
Excavating apparatus. L. A. Désy. No. 946,114; Jan. 11; Sp. p. 2429; Gaz. vol. 150; p. 404.
Excavating apparatus. J. Hayward. No. 946,899; Jan. 18; Sp. p. 4259; Gaz. vol. 150; p. 699.
Excavating apparatus. C. L. Hopkins. No. 963,561; July 5; Sp. p. 1196; Gaz. vol. 156, p. 185.
Excavating apparatus. C. L. Hopkins. No. 963,562; July 5; Sp. p. 1201; Gaz. vol. 156; p. 185.
Excavating apparatus. C. L. Hopkins. No. 963,563; July 5; Sp. p. 1204; Gaz. vol. 156; p. 185.
Excavating apparatus. E. A. Newman. No. 964,999; July 19; Sp. p. 4342; Gaz. vol. 156; p. 724.
Excavating apparatus. B. Curtiss and W. A. Monroe. No. 967,733; Aug. 16; Sp. p. 4033; Gaz. vol. 157; p. 691.
Excavating apparatus. L. A. Larson. No. 976,663; Nov. 22; Sp. p. 5692; Gaz. vol. 160; p. 963.
Excavating apparatus. W. J. Leary. No. 978,908; Dec. 20; Sp. p. 3186; Gaz. vol. 161; p. 566.
Excavating apparatus, Air-lock for. J. H. Gray. No. 950,388; Feb. 22; Sp. p. 5506; Gaz. vol. 151; p. 964.
Excavating-bucket. J. C. Crenshaw. No. 954,936; Apr. 12; Sp. p. 2722; Gaz. vol. 153; p. 460.
Excavating-bucket. J. C. Crenshaw. No. 966,313; Aug. 2; Sp. p. 982; Gaz. vol. 157; p. 157.

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Excavating-machine. G. Holmes. No. 948,051; Feb. 1; Sp. p. 568; Gaz. vol. 151; p. 91.
Excavating-machine. C. S. Brown. No. 948,871; Feb. 8; Sp. p. 2301; Gaz. vol. 151; p. 391.
Excavating-machine. W. H. Pontius. No. 953,226; Mar. 29; Sp. p. 5689; Gaz. vol. 152; p. 1033.
Excavating-machine. G. W. King, H. J. Barnhart, and C. B. King. No. 959,756; May 31; Sp. p. 7186; Gaz. vol. 154; p. 1220.
Excavating-machine. A. F. D. Louden. No. 962,156; June 21; Sp. p. 4030; Gaz. vol. 155; p. 699.
Excavating-machine. N. Ronneberg. No. 967,440; Aug. 16; Sp. p. 3429; Gaz. vol. 157; p. 591.
Excavating-machine. T. F. Lonney. No. 969,172; Sept. 6; Sp. p. 45; Gaz. vol. 158; p. 10.
Excavating-machine. D. W. Miller. No. 976,589; Nov. 22; Sp. p. 5545; Gaz. vol. 160; p. 937.
Excavating-machine. D. W. Miller. No. 976,590; Nov. 22; Sp. p. 5548; Gaz. vol. 160; p. 937.
Excavating-machine. D. W. Miller. No. 977,822; Dec. 6; Sp. p. 878; Gaz. vol. 161; p. 138.
Excavating-machine. V. A. Younger. No. 977,920; Dec. 6; Sp. p. 1085; Gaz. vol. 161; p. 172.
Excavating, raising, and dumping earth, &c., Machine for. W. Castles. No. 950,367; Feb. 22; Sp. p. 5463; Gaz. vol. 151; p. 958.
Excavating-shovel. C. J. Reise. No. 955,285; Apr. 19; Sp. p. 3427; Gaz. vol. 153; p. 609.
Excavator. L. A. Désy. No. 949,354; Feb. 15; Sp. p. 3311; Gaz. vol. 151; p. 580.
Excavator. W. P. Beaver. No. 952,974; Mar. 22; Sp. p. 5134; Gaz. vol. 152; p. 922.
Excavator. J. S. Henderson. No. 954,863; Apr. 12; Sp. p. 2564; Gaz. vol. 153; p. 437.
Excavator. H. F. Menck. No. 957,234; May 10; Sp. p. 1591; Gaz. vol. 154; p. 281.
Excavator. C. E. Negley. No. 958,158; May 17; Sp. p. 3729; Gaz. vol. 154; p. 630.
Excavator-bucket. O. J. Martinson. No. 954,318; Apr. 5; Sp. p. 1328; Gaz. vol. 153; p. 219.
Excavator-bucket. O. J. Martinson. No. 976,088; Nov. 15; Sp. p. 4367; Gaz. vol. 160; p. 742.
Excavator-bucket. O. J. Martinson. No. 976,742; Nov. 22; Sp. p. 5832; Gaz. vol. 160; p. 988.
Excavator-bucket (toggle mechanism). C. H. Brainard. No. 953,020; Mar. 29; Sp. p. 5237; Gaz. vol. 152; p. 966.
Excavator, Drainage-. M. G. Bunnell. No. 950,631; Mar. 1; Sp. p. 357; Gaz. vol. 152; p. 58.
Excavator, Earth-. J. F. S. Kirby. No. 954,521; Apr. 12; Sp. p. 1763; Gaz. vol. 153; p. 316.
Excavator, Power-. J. B. Webber, Jr. (Reissue.) No. 13,107; Apr. 26; Sp. p. 6118; Gaz. vol. 153; p. 1059.
Excavator, Rotary. E. M. Warrenfeltz. No. 973,326; Oct. 18; Sp. p. 3998; Gaz. vol. 159; p. 684.
Excavator, Sewer-trench. J. H. Johnson. No. 977,016; Nov. 29; Sp. p. 6506; Gaz. vol. 160; p. 1109.
Excavator, Side-delivery. G. W. Barnett. No. 973,402; Oct. 18; Sp. p. 4173; Gaz. vol. 159; p. 711.
Excelsior-cutting machine. M. Stewart. No. 950,011; Feb. 22; Sp. p. 4747; Gaz. vol. 151; p. 838.
Excelsior-machine. E. D. Misner. No. 956,130; Apr. 26; Sp. p. 5296; Gaz. vol. 153; p. 930.
Exchange-selector, Automatic H. B. Holmes and E. B. Craft. No. 970,821; Sept. 20; Sp. p. 3623; Gaz. vol. 158; p. 619
Exerciser. B. F. Bailey. No. 956,264; Apr. 26; Sp. p. 5598; Gaz. vol. 153; p. 976.
Exerciser. S. S. Marley. No. 967,403; Aug. 16; Sp. p. 3368; Gaz. vol. 157; p. 580.
Exercising apparatus. E. C. Gough. No. 950,100; Feb. 22; Sp. p. 4932; Gaz. vol. 151; p. 868.
Exercising apparatus. J. Ertl. No. 954,790; Apr. 12 Sp. p. 2374; Gaz. vol. 153; p. 410.
Exercising apparatus. J. P. Storey. No. 972,284; Oct. 11; Sp. p. 1686; Gaz. vol. 159; p. 297.
Exercising device. W. P. Armstrong. No. 952,862; Mar. 22; Sp. p. 4917; Gaz. vol. 152; p. 885.
Exercising-machine. C. Schulze. No. 974,194; Nov. 1; Sp. p. 202; Gaz. vol. 160; p. 34.
Exercising-machine, Electrical muscular. W. Harris. No. 955,793; Apr. 19; Sp. p. 4531; Gaz. vol. 153; p. 782.
Exhaust and muffler, Under-water. J. O. Smith. No. 977,976; Dec. 6; Sp. p. 1203; Gaz. vol. 161; p. 192.
Exhaust-head. A. Sorge, Jr. No. 945,817; Jan. 11; Sp. p. 1802; Gaz. vol. 150; p. 302.
Exhaust-muffler. C. F. Smith. No. 979,041; Dec. 20; Sp. p. 3507; Gaz. vol. 161; p. 614.
Exhaust-pipe. J. Player. No. 948,020; Feb. 1; Sp. p. 495; Gaz. vol. 151; p. 80.
Exhaust-silencer. E. A. and F. G. Hall, Jr. No. 945,523; Jan. 4; Sp. p. 1118; Gaz. vol. 150; p. 172.
Exhausting-machine. W. R. Burrows. No. 973,625; Oct. 25; Sp. p. 4646; Gaz vol. 159; p. 808.
Exhibiting and advertising apparatus. C. A. Gee. No. 969,780; Sept. 13; Sp. p. 1366; Gaz. vol. 158; p. 240.
Exhibiting apparatus. C. H. Duncan. No. 947,058; Jan. 18; Sp. p. 4554; Gaz. vol. 150; p. 751.
Exhibiting apparatus. F. W. Tully. No. 974,450; Nov. 1; Sp. p. 858; Gaz. vol. 160; p. 126.
Exhibiting carpets and other textile fabrics, Apparatus for. W. Franklin. No. 979,755; Dec. 27; Sp. p. 5060; Gaz. vol. 161; p. 881.
Exhibiting device, Card-. R. R. Whiting. No. 979,117; Dec. 20; Sp. p. 3698; Gaz. vol. 161; p. 641.
Exhibitor. H. M. Gibson. No. 949,569; Feb. 15; Sp. p. 3753; Gaz. vol. 151; p. 652.
Exhibitor. R. Albertson, F. M. and A. W. Woodward. No. 979,239; Dec. 20; Sp. p. 3973; Gaz. vol. 161; p. 684.
Exhibitor. W. S. Turnpaugh. No. 979,605; Dec. 27; Sp. p. 4733; Gaz. vol. 161; p. 831.
Expanding die or stamp. D. T. Berlizheimer. No. 951,589; Mar. 8; Sp. p. 2284; Gaz. vol. 152; p. 396.
Expanding-machine. T. H. Kane. No. 949,483; Feb. 15; Sp. p. 3571; Gaz. vol. 151; p. 623.
Expanding or adjustable press for fertilizing material, &c. W. E. Overton and A. C. Ketcham. No. 975,990; Nov. 15; Sp. p. 4177; Gaz. vol. 160; p. 707.
Expansible bit. A. B. Jennings. No. 950,782; Mar. 1; Sp. p. 693; Gaz. vol. 152; p. 111.
Expansible bit. E. Pastore. No. 963,468; July 5; Sp. p. 1013; Gaz. vol. 156; p. 153.
Expansible bit. G. P. Butler No. 970,789; Sept. 20; Sp. p. 3543; Gaz. vol. 158; p. 606.
Expansible roller. O. Cullman. No. 965,160; July 26; Sp. p. 4668; Gaz. vol. 156; p. 808.
Expansion-bolt. J. L. Mohun. No. 945,403; Jan. 4; Sp. p. 862; Gaz. vol. 150; p. 134.
Expansion-bolt. C B. Skidmore. No. 948,938; Feb. 8; Sp. p. 2427; Gaz. vol. 151; p. 413.
Expansion-bolt. W. A. Bryant. No. 952,783; Mar. 22; Sp. p. 4763; Gaz. vol. 152; p. 858.
Expansion-bolt. C. C. Tomkinson. No. 958,783; May 24; Sp. p. 5151; Gaz. vol. 154; p. 868.
Expansion-bolt. W. A. Bryant. No. 962,306; June 21; Sp. p. 4338; Gaz. vol. 155; p. 749.
Expansion-bolt. J. H. Baker. No. 966,515; Aug. 9; Sp. p. 1469; Gaz. vol. 157; p. 252.
Expansion-bolt. H. W. Pleister. No. 973,559; Oct. 25; Sp. p. 4503; Gaz. vol. 159; p. 786.
Expansion-bolt. G. C. Smith. No. 977,232; Nov. 29; Sp. p. 6964; Gaz. vol. 160; p. 1184.
Expansion-joint. J. D. Walsh. No. 949,811; Feb. 22; Sp. p. 4250; Gaz. vol. 151; p. 766.
Exploder, Delayed-action electric. R. L. Oliver. No. 954,689; Apr. 12; Sp. p. 2132; Gaz. vol. 153; p. 373.
Explosion and steam motor, Combined. W. Tcherepanoff. No. 953,868; Apr. 5; Sp. p. 370; Gaz. vol. 153; p. 66.
Explosion-engine. H. Söhnlein. No. 946,406; Jan. 11; Sp. p. 3158; Gaz. vol. 150; p. 508.
Explosion-engine. P. A. Darracq. No. 961,938; June 21; Sp. p. 3534; Gaz. vol. 155; p. 623.
Explosion-engine. M. Sears. No. 968,702; Aug. 30; Sp. p. 6141; Gaz. vol. 157; p. 1072.
Explosion-engine. C. F. Jenkins. No. 972,380; Oct. 11; Sp. p. 1873; Gaz. vol. 159; p. 328.
Explosion-engine. W. A. Jones. No. 972,869; Oct. 18; Sp. p. 2963; Gaz. vol. 159; p. 525.
Explosion-engine. G. R. Price. No. 978,936; Dec. 20; Sp. p. 3253; Gaz. vol. 161; p. 577.
Explosion-engine, Two-cycle. H. R. Sieverkropp. No. 979,040; Dec. 20; Sp. p. 3504; Gaz. vol. 161; p. 614.
Explosion-motor. C. F. Jenkins. No. 972,379; Oct. 11; Sp. p. 1871; Gaz. vol. 159; p. 328.
Explosion-motor, Rotary. F. Beck. No. 977,260; Nov. 29; Sp. p. 7022; Gaz. vol. 160; p. 1194.
Explosion or combustion motor or pump. C. A. and O. W. Hult. No. 959,748; May 31; Sp. p. 7174; Gaz. vol. 154; p. 1217.
Explosive. A. Mikolajczak. No. 948,790; Feb. 8; Sp. p. 2149; Gaz. vol. 151; p. 365.
Explosive. C. P. H. Claessen. No. 957,307; May 10; Sp. p. 1753; Gaz. vol. 154; p. 307.
Explosive. W. C. McLaughlin. No. 968,389; Aug. 23; Sp. p. 5436; Gaz. vol. 157; p. 937.
Explosive. L. Gray. No. 975,030; Nov. 8; Sp. p. 2172; Gaz. vol. 160; p. 353.
Explosive. F. H. Briggs. No. 975,825; Nov. 15; Sp. p. 3855; Gaz. vol. 160; p. 650.
Explosive. M. Delvigne. No. 977,076; Nov. 29; Sp. p. 6630; Gaz. vol. 160; p. 1130.
Explosive. G. M. Peters and M. F. Lindsley. No. 977,545; Dec. 6; Sp. p. 303; Gaz. vol. 161; p. 45.
Explosive. C. E. Griffing. No. 979,476; Dec. 27; Sp. p. 4441; Gaz. vol. 161; p. 784.
Explosive caps, Device for crimping. J. M. Jackson. No. 954,297; Apr. 5; Sp. p. 1284; Gaz. vol. 153; p. 212.
Explosive compound. H. Maxim. No. 951,445; Mar. 8; Sp. p. 1998; Gaz. vol. 152; p. 348.
Explosive compound. J. Burrows. No. 968,919; Aug. 30; Sp. p. 6574; Gaz vol. 157; p. 1145.
Explosive compound. H. Maxim. No. 974,900; Nov. 8; Sp. p. 1853; Gaz. vol. 160; p. 308.
Explosive compound, Manufacturing an. L. Gray. No. 967,185; Aug. 16; Sp p. 2916; Gaz. vol. 157; p. 505.
Explosive-driven engine. A. A. Jahnke. No. 961,966; June 21; Sp. p. 3599; Gaz. vol. 155; p. 633.
Explosive-engine. H. H. Wixon. No. 947,566; Jan. 25; Sp. p. 5720; Gaz. vol. 150; p. 950.
Explosive-engine. H. G. Holmes. No. 948,925; Feb. 8; Sp. p. 2403; Gaz. vol. 151; p. 409.

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Explosive-engine. J. F. Stahl. No. 950,162; Feb. 22; Sp. p. 5065; Gaz. vol. 151; p. 889.
Explosive-engine. G. J. Weber. No. 951,352; Mar. 8; Sp. p. 1805; Gaz. vol. 152; p. 317.
Explosive-engine. G. W. Smith. No. 951,747; Mar. 8; Sp. p. 2600; Gaz. vol. 152; p. 449.
Explosive-engine. R. P. Thompson and E. Koeb. No. 952,483; Mar. 22; Sp. p. 4088; Gaz. vol. 152; p. 755.
Explosive-engine. E. E. Slick. No. 954,219; Apr. 5; Sp. p. 1126; Gaz. vol. 153; p. 187.
Explosive-engine. J. F. Woolf. No. 959,905; May 31; Sp. p. 7521; Gaz. vol. 154; p. 1271.
Explosive-engine. E. S. Bowen. No. 961,581; June 14; Sp. p. 2771; Gaz. vol. 155; p. 480.
Explosive-engine. F. J. Gremel. No. 963,043; July 5; Sp. p. 30; Gaz. vol. 156; p. 7.
Explosive-engine. E. Gathmann. No. 963,366; July 5; Sp. p. 805; Gaz. vol. 156; p. 119.
Explosive-engine. J. F. Woolf. No. 965,975; Aug. 2; Sp. p. 270; Gaz. vol. 157; p. 45.
Explosive-engine. G. A. Parker. No. 967,046; Aug. 9; Sp. p. 2624; Gaz. vol. 157; p. 430.
Explosive-engine. J. F. Woolf. No. 968,725; Aug. 30; Sp. p. 6180; Gaz. vol. 157; p. 1080.
Explosive-engine. L. A. Frayer and W. J. Miller. No. 970,034; Sept. 13; Sp. p. 1933; Gaz. vol 158; p. 328.
Explosive-engine. J. I. Wood. No. 970,976; Sept. 20; Sp. p. 3910; Gaz. vol. 158; p. 668.
Explosive-engine. J. H. Fitch. No. 972,071; Oct. 4; Sp. p. 1217; Gaz. vol. 159; p. 205.
Explosive-engine. W. J. Wright. No. 974,455; Nov. 1; Sp. p. 875; Gaz. vol. 160; p. 128.
Explosive-engine. H. C. H. Mustad. No. 974,809; Nov. 8; Sp. p. 1652; Gaz. vol. 160; p. 277.
Explosive-engine. G. L. Fogler. No. 975,406; Nov. 15; Sp. p. 2980; Gaz. vol. 160; p. 507.
Explosive-engine. J. B. Brown. No. 977,779; Dec. 6; Sp. p. 790; Gaz. vol. 161; p. 123.
Explosive-engine. F. W. Springer. No. 980,134; Dec. 27; Sp. p. 5901; Gaz. vol. 161; p. 1008.
Explosive liquids, Draw-off device for. L. Kessler. No. 962,846; June 28; Sp. p. 5493; Gaz. vol. 155; p. 961.
Explosive liquids, Plant for storing. W. Heer. No. 946,041; Jan. 11; Sp. p. 2288; Gaz. vol. 150; p. 380.
Explosive liquids, Storage-tank for. L. Kessler. No. 973,440; Oct. 18; Sp. p. 4243; Gaz. vol. 159; p. 722.
Explosive mine. A. J. Strotzka and J. Berger. No. 952,478; Mar. 22; Sp. p. 4078; Gaz. vol. 152; p. 753.
Explosive mixtures, Apparatus for evaporating. F. I. du Pont. No. 945,109; Jan. 4; Sp. p. 211; Gaz. vol. 150; p. 36.
Explosive shell and making same. C. Stiriz. No. 950,032; Feb. 22; Sp. p. 4808; Gaz. vol. 151; p. 846.
Explosives, Device for thawing. G. S. Sneer. No. 965,760; July 26; Sp. p. 5971; Gaz. vol. 156; p. 1014.
Explosives, Incorporating ingredients of. E. du Pont. No. 976,211; Nov. 22; Sp. p. 4675; Gaz. vol. 160; p. 805.
Explosives, Lining boxes to contain. H. M. Barksdale. No. 977,698; Dec. 6; Sp. p. 633; Gaz. vol. 161; p. 96.
Explosives, Mixing-machine for. H. Talley. No. 946,475; Jan. 11; Sp. p. 3305; Gaz. vol. 150; p. 531.
Explosives, Trinitrotoluene mixture for. J. G. Nathurst. No. 971,211; Sept. 27; Sp. p. 4420; Gaz. vol. 158; p. 774.
Expressing-machine. J. J. Wheat. No. 949,787; Feb. 22; Sp. p. 4197; Gaz. vol. 151; p. 758.
Extensible bracket. H. Noppe. No. 975,273; Nov. 8; Sp. p. 2697; Gaz. vol. 160; p. 436.
Extensible connection. M. E. Wells. No. 959,411; May 24; Sp. p. 6447; Gaz. vol. 154; p. 1079.
Extensible seat or the like. W. Dudley. No. 966,891; Aug. 9; Sp. p. 2297; Gaz. vol. 157; p. 377.
Extensible table. S. Mautner. No. 970,071; Sept. 13; Sp. p. 2009; Gaz. vol. 158; p. 341.
Extension-hook. J. M. Zuk. No. 950,466; Feb. 22; Sp. p. 5652; Gaz. vol. 151; p. 991.
Extension-table. J. O. Johnson. No. 945,955; Jan. 11; Sp. p. 2117; Gaz. vol. 150; p. 352.
Extension-table. J. J. Gruender. No. 949,119; Feb. 15; Sp. p. 2827; Gaz. vol. 151; p. 500.
Extension-table. C. K. Hough. No. 954,516; Apr. 12; Sp. p. 1754; Gaz. vol. 153; p. 315.
Extension-table. R. M. Miller. No. 957,236; May 10; Sp. p 1598; Gaz. vol. 154; p. 282.
Extension-table. K. Kral. No. 957,611; May 10; Sp. p. 2352; Gaz. vol. 154; p. 409.
Extension-table. J. B. Weeks. No. 957,637; May 10; Sp. p. 2414; Gaz. vol. 154; p. 418.
Extension-table. E. Tyden. No. 963,665; July 5; Sp. p. 1399; Gaz. vol. 156; p. 218.
Extension-table. A. E. Matheson. No. 970,634; Sept. 20; Sp. p. 3209; Gaz. vol. 158; p. 552.
Extension-table. E. Tyden. No. 980,029; Dec. 27; Sp. p. 5646; Gaz. vol. 161; p. 973.
Extension-table, Folding. H. G. W. Ott. No. 950,340; Feb. 22; Sp. p. 5427; Gaz. vol. 151; p. 951.
Extension-table, Pedestal. C. J. Brown. No. 975,604; Nov. 15; Sp. p. 3392; Gaz. vol. 160; p. 577.
Extinguishing burning benzin, &c. M. Breslauer. No. 955,316; Apr. 19; Sp. p. 3494; Gaz. vol. 153; p. 620.
Extract-making apparatus. W. Wiegand. No. 979,362; Dec. 20; Sp. p. 4201; Gaz. vol. 161; p. 724.
Extracts containing tannin, Clarifying. H. Damköhler and H. Schwindt. No. 979,656; Dec. 27; Sp. p. 4837; Gaz. vol. 161; p. 849.
Extracting apparatus C. H. F. Lembke. No. 970,246; Sept. 13; Sp. p. 2375; Gaz. vol. 158; p. 400.
Extractor: *See* Bung-extractor; Coffee-chaff extractor; Cork-extractor; Key-extractor; Nail-extractor; Pen-extractor; Pulp-extractor; Rock-drill extractor; Sap or gum extractor; Shell-extractor; Stopper-extractor; Tie-extractor; Vapor-extractor.
Eye-cup. W. J. O'Neill. No. 963,933; July 12; Sp. p. 2011; Gaz. vol. 156; p. 330.
Eye, Schematic. H. L. De Zeng. No. 971,026; Sept. 27; Sp. 4013; Gaz. vol. 158; p. 712.
Eye-shade. W. H. Degges. No. 947,636; Jan. 25; Sp. p. 5869; Gaz. vol. 150; p. 974.
Eye-shade. A. E. Alles. No. 950,255; Feb. 22; Sp. p. 5262; Gaz. vol. 151; p. 923.
Eye-shield. F. O. Ellis. No. 951,473; Mar. 8; Sp. p. 2061; Gaz. vol. 152; p. 357.
Eye-testing device. A. J. Cross. No. 978,277; Dec. 13; Sp. p. 1869; Gaz. vol. 161; p. 328.
Eyeglass-cases, Machine for covering. W. P. Devine. No. 963,423; July 5; Sp. p. 925; Gaz. vol. 156; p. 137.
Eyeglass connection. C. Billington. No. 971,348; Sept. 27; Sp. p. 4682; Gaz. vol. 158; p. 819.
Eyeglass connection. W. W. Hoffman. No. 973,660; Oct. 25; Sp. p. 4734; Gaz. vol. 159; p. 822.
Eyeglass-frame. W. E. Clarke. No. 974,860; Nov. 8; Sp. p. 1769; Gaz. vol. 160; p. 295.
Eyeglass-guard. L. F. Adt. No. 967,291; Aug. 16; Sp. p. 3117; Gaz. vol. 157; p. 540.
Eyeglass-holder. F. H. Todd. No. 948,713; Feb. 8; Sp. p. 1978; Gaz. vol. 151; p. 339.
Eyeglass-holder. M. N. Thompson. No. 962,065; June 21; Sp. p. 3811; Gaz. vol. 155; p. 667.
Eyeglass-holder. F. R. Bishop. No. 969,129; Aug. 30; Sp. p. 6999; Gaz. vol. 157; p. 1217.
Eyeglass-lens mount. L. F. Adt. No. 964,732; July 19; Sp. p. 3806; Gaz. vol. 156; p. 633.
Eyeglass-mount. W. G. Fay. No. 958,485; May 17; Sp. p. 4536; Gaz. vol. 154; p. 743.
Eyeglass-mount. L. E. Grant and E. A. Wegener. No. 964,239; July 12; Sp. p. 2637; Gaz. vol. 156; p. 434.
Eyeglass-mounting. C. F. Ingold. No. 946,968; Jan. 18; Sp. p. 4395; Gaz. vol. 150; p. 722.
Eyeglass-mounting. F. A. Stevens. No. 956,220; Apr. 26; Sp. p. 5509; Gaz. vol. 153; p. 961.
Eyeglass-mounting. J. T. Laughlin. No. 957,071; May 3; Sp. p. 1230; Gaz. vol. 154; p. 195.
Eyeglass-mounting. T. Rapp. No. 957,374; May 10; Sp. p. 1894; Gaz. vol. 154; p. 329.
Eyeglass-mounting. G. A. Bader. No. 957,925; May 17; Sp. p. 3041; Gaz. vol. 154; p. 546.
Eyeglass-mounting. E. J. Strohm. No. 959,816; May 31; Sp. p. 7326; Gaz. vol. 154; p. 1241.
Eyeglass-mounting. C. A. Hoffman. No. 960,642; June 7; Sp. p. 826; Gaz. vol. 155; p. 135.
Eyeglass-mounting C. A. Hoffman. No. 960,924; June 7; Sp. p. 1363; Gaz. vol. 155; p. 229.
Eyeglass-mounting. G. A. Bader. No. 965,852; Aug. 2; Sp. p. 12; Gaz. vol. 157; p. 4.
Eyeglass-mounting. G. J. Lowres. No. 965,917; Aug. 2; Sp. p. 145; Gaz. vol. 157; p. 25.
Eyeglass-mounting. L. F. Adt. No. 967,292; Aug. 16; Sp. p. 3118; Gaz. vol. 157; p. 540.
Eyeglass-mounting. L. F. Adt. No. 970,160; Sept. 13; Sp. p. 2163; Gaz. vol. 158; p. 369.
Eyeglass-mounting. W. R. Uhlemann. No. 970,577; Sept. 20; Sp. p. 3057; Gaz. vol. 158; p. 532.
Eyeglass-mounting. W. R. Uhlemann. No. 970,578; Sept. 20; Sp. p. 3059; Gaz. vol. 158; p. 532.
Eyeglass-mounting. W. R. Uhlemann. No. 970,579; Sept. 20; Sp. p. 3060; Gaz. vol. 158; p. 533.
Eyeglass-mounting. G. A. Bader. (Reissue.) No. 13,151; Sept. 20; Sp. p. 3977; Gaz. vol. 158; p. 680.
Eyeglass-mounting. L. F. Adt. No. 972,980; Oct. 18; Sp. p. 3247; Gaz. vol. 159; p. 565.
Eyeglass-mounting. W. B. Brown, Jr. No. 977,163; Nov. 29; Sp. p. 6833; Gaz. vol. 160; p. 1160.
Eyeglass-mounting. G. A. Bader. No. 978,809; Dec. 13; Sp. p. 2987; Gaz. vol. 161; p. 506.
Eyeglass nose-guard. L. F. Adt. No. 977,152; Nov. 29; Sp. p. 6802; Gaz. vol. 160; p. 1156.
Eyeglass nose-piece. W. R. Johnson. No. 977,451; Dec. 6; Sp. p. 51; Gaz. vol. 161; p. 11.
Eyeglass or spectacle lens clamp. S. Beauchamp. No. 963,851; July 12; Sp. p. 1848; Gaz. vol. 156; p. 304.
Eyeglass-reel. G. H. Day. No. 974,477; Nov. 1; Sp. p. 924; Gaz. vol. 160; p. 137.
Eyeglass-spring. G. W. Wells. No. 946,748; Jan. 18; Sp. p. 3873; Gaz. vol. 150; p. 647.
Eyeglass-spring. A. E. Doble. No. 958,236; May 17; Sp. p. 3879; Gaz. vol. 154; p. 655.
Eyeglass-spring. L. F. Adt. No. 967,290; Aug. 16; Sp. p. 3115; Gaz. vol. 157; p. 540.
Eyeglass-temple. L. H. Broome. No. 962,549; June 28; Sp. p. 4887; Gaz. vol. 155; p. 858.
Eyeglasses. G. A. Bader. No. 946,652; Jan. 18; Sp. p. 3668; Gaz. vol. 150; p. 614.

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Eyeglasses. E. B. Meyrowitz. No. 946,973; Jan. 18; Sp. p. 4405; Gaz. vol. 150; p. 724.
Eyeglasses. A. Wiltz. No. 951,714; Mar. 8; Sp. p. 2517; Gaz. vol. 152; p. 438.
Eyeglasses. J. Friedlander. (Reissue.) No. 13,088; Mar. 8; Sp. p. 2696; Gaz. vol. 152; p. 465.
Eyeglasses. F. W. Nolte. No. 952,626; Mar. 22; Sp. p. 4413; Gaz. vol. 152; p. 805.
Eyeglasses. R. H. Simonds. No. 958,839; May 24; Sp. p. 5276; Gaz. vol. 154; p. 889.
Eyeglasses. E. J. Strohm. No. 959,815; May 31; Sp. p. 7324; Gaz. vol. 154; p. 1240.
Eyeglasses. C. Alter. No. 962,873; June 28; Sp. p. 5555; Gaz. vol. 155; p. 971.
Eyeglasses. L. F. Adt. No. 963,029; July 5; Sp. p. 3; Gaz. vol. 156; p. 3.
Eyeglasses. L. F. Adt. No. 963,349; July 5; Sp. p. 774; Gaz. vol. 156; p. 113.
Eyeglasses. E. B. Meyrowitz. No. 963,380; July 5; Sp. p. 833; Gaz. vol. 156; p. 123.
Eyeglasses. J. H. Collins. No. 963,422; July 5; Sp. p. 923, Gaz. vol. 156; p. 137.
Eyeglasses. G. Bausch. No. 965,130; July 19; Sp. p. 4599; Gaz. vol. 156; p. 767.
Eyeglasses. J. P. Barlow. No. 965,499; July 26; Sp. p. 5393; Gaz. vol. 156; p. 923.
Eyeglasses. L. F. Adt. No. 969,683; Sept. 6; Sp. p. 1126; Gaz. vol. 158; p. 181.
Eyeglasses. J. C. Wells. No. 969,819; Sept. 13; Sp. p. 1468; Gaz. vol. 158; p. 253.
Eyeglasses. G. J. Lowres. No. 975,367; Nov. 8; Sp. p. 2889; Gaz. vol. 160; p. 467.
Eyeglasses. L. F. Adt. No. 977,151; Nov. 29; Sp. p. 6800; Gaz. vol. 160; p. 1155.
Eyeglasses. G. A. Bader. No. 978,810; Dec. 13; Sp. p. 2987; Gaz. vol. 161; p. 506.
Eyeglasses. J. Reno. No. 979,095; Dec. 20; Sp. p. 3618; Gaz. vol. 161; p. 631.
Eyeglasses and spectacles, Mounting for. W. S. Samson. No. 963,653; July 5; Sp. p. 1382; Gaz. vol. 156; p. 215.
Eyeglasses and spectacles, Rimless. R. E. Boyd. No. 972,053; Oct. 4; Sp. p. 1183; Gaz. vol. 159; p. 199.
Eyeglasses, Finger-piece. J. C. Wells. No. 946,926; Jan. 18; Sp. p. 4315; Gaz. vol. 150; p. 708.
Eyeglasses, Finger-piece. E. C. Bernheim. No. 969,447; Sept. 6; Sp. p. 621; Gaz. vol. 158; p. 99.
Eyelet and rivet feeding device. M. A. Stewart. No. 962,928; June 28; Sp. p. 5645; Gaz. vol. 155; p. 988.
Eyelet for shoes, Lacing-. J. P. Brooks. No. 946,595; Jan. 18; Sp. p. 3539; Gaz. vol. 150; p. 596.
Eyelet-inserting machine. F. W. Luscomb. No. 956,119; Apr. 26; Sp. p. 5269; Gaz. vol. 153; p. 926.
Eyelet-inserting machine. F. W. Luscomb. No. 978,178; Dec. 13; Sp. p. 1661; Gaz. vol. 161; p. 292.
Eyelets, &c., Machine for making. J. H. Kelly. No. 978,898; Dec. 20; Sp. p. 3167; Gaz. vol. 161; p. 563.
Eyeleting-machine. J. A. Dunphy. No. 964,626; July 19; Sp. p. 3484; Gaz. vol. 156; p. 596.
Eyeleting-tool. C. L. Eaton. No. 974,368; Nov. 1; Sp. p. 659; Gaz. vol. 160; p. 99.
Fabric: *See* Armor fabric; Bed-bottom fabric; Composite fabric; Decorated fabric; Elastic fabric; Fibrous fabric; Fireproof fabric; Knitted fabric; Mattress-spring fabric; Metallic fabric; Pile fabric; Rubber fabric; Textile fabric; Tire-reinforcing fabric; Tubular fabric; Tubular ribbed fabric; Welded fabric; Wire fabric; Woven fabric.
Fabric. P. L. Bousquet. No. 974,855; Nov. 8; Sp. p. 1756; Gaz. vol. 160; p. 293.
Fabric and knitting the same, Checkered plated. E. A. Hirner. No. 951,565; Mar. 8; Sp. p. 2242; Gaz. vol. 152; p. 389.
Fabric, Apparatus for treating cotton textile. A. Sydeman and J. Meade. No. 976,231; Nov. 22; Sp. p. 4740; Gaz. vol. 160; p. 813.
Fabric-borders, Machine for making. H. S. North. No. 965,001; July 19; Sp. p. 4351; Gaz. vol. 156; p. 725.
Fabric-chain machine. J. F. Gail. No. 975,850; Nov. 15; Sp. p. 3907; Gaz. vol. 160; p. 659.
Fabric-clasp. F. W. Harkins. No. 965,143; July 19; Sp. p. 4625; Gaz. vol. 156; p. 771.
Fabric-cutting machine. A. Roos. No. 954,210; Apr. 5; Sp. p. 1109; Gaz. vol. 153; p. 184.
Fabric-feeding roll or head. W. B. Palmer. No. 956,408; Apr. 26; Sp. p. 5896; Gaz. vol. 153; p. 1025.
Fabric-impregnating apparatus. E. De Journo. No. 969,041; Aug. 30; Sp. p. 6805; Gaz. vol. 157; p. 1186.
Fabric laying and folding machine. M. L. and C. M. Shapera. No. 964,124; July 12; Sp. p. 2414; Gaz. vol. 156; p. 396.
Fabric, Machine for making composite. E. Strauss and W. B. Erskine. No. 945,635; Jan. 4; Sp. p. 1349; Gaz. vol. 150; p. 210.
Fabric-mercerizing apparatus, Textile-. E. Heberlein. No. 978,883; Dec. 20; Sp. p. 3141; Gaz. vol. 161; p. 558.
Fabric-piling mechanism. J. A. Butler. No. 965,561; July 26; Sp. p. 5559; Gaz. vol. 156; p. 946.
Fabric sponging and finishing machine. A. J. Hamma. No. 954,861; Apr. 12; Sp. p. 2557; Gaz. vol. 153; p. 436.
Fabric-stretching machine. F. Chatfield. No. 964,088; July 12; Sp. p. 2337; Gaz. vol. 156; p. 385.
Fabric-supporting reel. G. T. McLeod. No. 957,991; May 17; Sp. p. 3244; Gaz. vol. 154; p. 570.
Fabrics, Apparatus for the production of leno. J. King. No. 946,137; Jan. 11; Sp. p. 2469; Gaz. vol. 150; p. 412.
Fabrics, Machine for making ornamental impressions on piled. A. Schnellen. No. 953,181; Mar. 29; Sp. p. 5605; Gaz. vol. 152; p. 1019.
Fabrics ornaments interwoven with a brass wire, Machine for applying to. H. Martin. No. 959,242; May 24; Sp. p. 6128; Gaz. vol. 154; p. 1023.
Fabrics, Tool for patterning piled. M. Urbántsek. No. 954,483; Apr. 12; Sp. p. 1677; Gaz. vol. 153; p. 304.
Face-plate-holding means. B. M. W. Hanson. No. 974,057; Oct. 25; Sp. p. 5536; Gaz. vol. 159; p. 960.
Facial lines and defects, Device for removing. E. Hannig. No. 971,373; Sept. 27; Sp. p. 4730; Gaz. vol. 158; p. 826.
Facing-mold. N. F. Adamson. No. 969,435; Sept. 6; Sp. p. 604; Gaz. vol. 158; p. 96.
Fair-leader. A. Isaac. No. 969,873; Sept. 13; Sp. p. 1582; Gaz. vol. 158; p. 272.
False spindle. C. M. Haeske. No. 947,544; Jan. 25; Sp. p. 5676; Gaz. vol. 150; p. 943.
Fan. J. H. Galland. No. 959,503; May 31; Sp. p. 6679; Gaz. vol. 154; p. 1136.
Fan. L. L. Funk. No. 966,190; Aug. 2; Sp. p. 748; Gaz. vol. 157; p. 118.
Fan. C. Sweetser. No. 971,703; Oct. 4; Sp. p. 401; Gaz. vol. 159; p. 70.
Fan. G. S. Rice. No. 978,397; Dec. 13; Sp. p. 2124; Gaz. vol. 161; p. 369.
Fan, Air-cooling. N. M. Ingle. No. 953,838; Apr. 5; Sp. p. 312; Gaz. vol. 153; p. 56.
Fan and sunshade, Combined. H. Sprinzel. No. 946,078; Jan. 11; Sp. p. 2365; Gaz. vol. 150; p. 393.
Fan and sunshade, Combined. R. Greenfield. No. 956,959; May 3; Sp. p. 1007; Gaz. vol. 154; p. 158.
Fan and whip, Combined. M. Forst. No. 951,271; Mar. 8; Sp. p. 1628; Gaz. vol. 152; p. 291.
Fan attachment for swings. J. Hajdú and M. Kovács. No. 953,463; Mar. 29; Sp. p. 6209; Gaz. vol. 152; p. 1113.
Fan, Automatic rocking-chair. A. Lawson, R. S. and B. Wildbur. No. 960,967; June 7; Sp. p. 1452; Gaz. vol. 155; p. 244.
Fan, Centrifugal. P. Kestner. No. 949,150; Feb. 15; Sp. p. 2886; Gaz. vol. 151; p. 511.
Fan, Combination desk and wall. C. R. Meston and H. I. Finch. No. 953,047; Mar. 29; Sp. p. 5291; Gaz. vol. 152; p. 975.
Fan, Electric. R. P. Thompson. No. 956,229; Apr. 26; Sp. p. 5529; Gaz. vol. 153; p. 964.
Fan, Fly-. T. L. Thompson. No. 948,356; Feb. 8; Sp. p. 1200; Gaz. vol. 151; p. 219.
Fan for drying and other machines, Circulating-. C. W. Schwartz, Jr. No. 951,029; Mar. 1; Sp. p. 1156; Gaz. vol. 152; p. 189.
Fan, Hair-drying. E. H. Amet. No. 963,677; July 5; Sp. p. 1421; Gaz. vol. 156; p. 223.
Fan, Lawn-swing. J. E. Hall. No. 962,341; June 21; Sp. p. 4418; Gaz. vol. 155; p. 761.
Fan, Mechanical. L. Meszaros. No. 955,823; Apr. 19; Sp. p. 4594; Gaz. vol. 153; p. 794.
Fan, Motor-operated. H. Manes. No. 950,141; Feb. 22; Sp. p. 5013; Gaz. vol. 151; p. 881.
Fan-muffler. D. F. Leary. No. 945,101; Jan. 4; Sp. p. 197; Gaz. vol. 150; p. 33.
Fan or propeller, Rotary. H. Ruthenberg. No. 959,392; May 24; Sp. p. 6416; Gaz. vol. 154; p. 1073.
Fan or pump, Centrifugal. A. C. Fraser. No. 976,795; Nov. 22; Sp. p. 5965; Gaz. vol. 160; p. 1007.
Fan, Oscillating. A. Rubin. No. 952,468; Mar. 22; Sp. p. 4057; Gaz. vol. 152; p. 750.
Fan, Oscillating. A. Rubin. No. 955,209; Apr. 19; Sp. p. 3267; Gaz. vol. 153; p. 585.
Fan, Oscillating. E. C. Lipps. No. 961,703; June 14; Sp. p. 3010; Gaz. vol. 155; p. 521.
Fan, Oscillating. R. E. Barker. No. 963,849; July 12; Sp. p. 1843; Gaz. vol. 156; p. 304.
Fan, Oscillating electric. C. R. Meston and H. I. Finch. No. 952,458; Mar. 22; Sp. p. 4027; Gaz. vol. 152; p. 745.
Fan, Oscillating electric. H. I. Finch. No. 978,147; Dec. 13; Sp. p. 1588; Gaz. vol. 161; p. 281.
Fan, Rotary. J. R. Robinson. No. 956,781; May 3; Sp. p. 600; Gaz. vol. 154; p. 96.
Fan, Spring-motor-driven table-. D. M. Pfautz. No. 975,714; Nov. 15; Sp. p. 3638; Gaz. vol. 160; p. 612.
Fan-support. F. Andrus. No. 979,405; Dec. 27; Sp. p. 4291; Gaz. vol. 161; p. 761.
Fan, Table-. J. A. Fowler. No. 956,068; Apr. 26; Sp. p. 5156; Gaz. vol. 153; p. 908.
Fan, Ventilating-. R. A. Ilg. No. 957,776; May 10; Sp. p. 2714; Gaz. vol. 154; p. 465.
Fan, Ventilating-. F. R. Kunkel. No. 969,707; Sept. 6; Sp. p. 1167; Gaz. vol. 158; p. 189.
Fans, Cut-off for. T. O. Carlisle. No. 960,815; June 7; Sp. p. 1168; Gaz. vol. 155; p. 194.
Fanning-mill feeding attachment. H. Dykstra. No. 958,483; May 17; Sp. p. 4532; Gaz. vol. 154; p. 742.
Fare-box. G. B. Kohler. No. 961,076; June 7; Sp. p. 1695; Gaz. vol. 155; p. 281.

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Fare-box. E. S. Bucknam and G. B. Kohler. No. 969,597; Sept. 6; Sp. p. 962; Gaz. vol. 158; p. 152.
Fare-box. E. S. Bucknam and G. B. Kohler. No. 970,178; Sept. 13; Sp. p. 2205; Gaz. vol. 158; p. 375.
Fare-box. H. S. Miller. No. 978,327; Dec. 13; Sp. p. 1978; Gaz. vol. 161; p. 344.
Fare-collecting means. J. L. Bone and C. H. Woods. No. 979,419; Dec. 27; Sp. p. 4318; Gaz. vol. 161; p. 766.
Fare-register. J. F. Ohmer. No. 974,700; Nov. 1; Sp. p. 1414; Gaz. vol. 160; p. 219.
Fare register, Conductor's cash-. W. W. Kay. No. 976,467; Nov. 22; Sp. p. 5276; Gaz. vol. 160; p. 895.
Fare-register-indicator operator. O. N. Moore. No. 979,083; Dec. 20; Sp. p. 3597; Gaz. vol. 161; p. 627.
Fare-register-operating device, Car-. E. S. Bucknam. No. 971,968; Oct. 4; Sp. p. 1024; Gaz. vol. 159; p. 170.
Fare-register-operating mechanism. J. F. Ohmer. No. 971,630; Oct. 4; Sp. p. 256; Gaz. vol. 159; p. 46.
Fare-register, Recording. A. E. Stone and F. L. O'Bryan. No. 973,315; Oct. 18; Sp. p. 3975; Gaz. vol. 159; p. 680.
Fare-register rods, Removable handle for. W. F. Frenzel. No. 960,877; June 7; Sp. p. 1286; Gaz. vol. 155; p. 215.
Fare-slip holder, Cash-. H. E. Thomsen. No. 960,733; June 7; Sp. p. 1004; Gaz. vol. 155; p. 168.
Farm-gate. C. Schultz. No. 946,707; Jan. 18; Sp. p. 3779; Gaz. vol. 150; p. 632.
Farm-gate. O. J. Wyman. No. 950,526; Mar. 1; Sp. p. 141; Gaz. vol. 152; p. 23.
Farm-gate. J. P. Imig. No. 954,296; Apr. 5; Sp. p. 1282; Gaz. vol. 153; p. 212.
Farm-gate. W. Ruble. No. 979,708; Dec. 27; Sp. p. 4933; Gaz. vol. 161; p. 865.
Farm-roller. C. G. Reiff. No. 976,293; Nov. 22; Sp. p. 4890; Gaz. vol. 160; p. 835.
Fastener. C. Joseph. No. 947,489; Jan. 25; Sp. p. 5563; Gaz. vol. 150; p. 924.
Fastener. G. Jones. No. 947,820; Feb. 1; Sp. p. 71; Gaz. vol. 151; p. 15.
Fastener. C. J. Lubeck. No. 948,071; Feb. 1; Sp. p. 613; Gaz. vol. 151; p. 99.
Fastener. J. W. McKitrick. No. 955,186; Apr. 19; Sp. p. 3206; Gaz. vol. 153; p. 576.
Fastener. F. Hirsh. No. 958,249; May 17; Sp. p. 3918; Gaz. vol. 154; p. 659.
Fastener. C. Joseph. No. 959,545; May 31; Sp. p. 6760; Gaz. vol. 154; p. 1150.
Fastener. O. R. Heaton. No. 966,544; Aug. 9; Sp. p. 1531; Gaz. vol. 157; p. 262.
Fastener. L. M. Smiley. No. 966,959; Aug. 9; Sp. p. 2430; Gaz. vol. 157; p. 399.
Fastener. J. W. McKitrick. No. 975,266; Nov. 8; Sp. p. 2684; Gaz. vol. 160; p. 434.
Fastener. E. F. Hartshorn. No. 979,853; Dec. 27; Sp. p. 5283; Gaz. vol. 161; p. 914.
Fastener, Combination-. R. F. Pickard. No. 976,209; Nov. 22; Sp. p. 4673; Gaz. vol. 160; p. 805.
Fastener, Detachable. W. C. Schmidt. No. 961,089; June 7; Sp. p. 1719; Gaz. vol. 155; p. 286.
Fastener for closures. T. F. Foley. No. 969,776; Sept. 13; Sp. p. 1359; Gaz. vol. 158; p. 239.
Fastener for gloves and other articles. L. W. Brown. No. 957,651; May 10; Sp. p. 2446; Gaz. vol. 154; p. 423.
Fastener for packages. C. E. Churchill. No. 947,195; Jan. 18; Sp. p. 4819; Gaz. vol. 150; p. 794.
Fastener-inserting machine. W. C. Stewart. No. 958,040; May 17; Sp. p. 3438; Gaz. vol. 154; p. 589.
Fastener-inserting machines, Horn-controlling mechanism for. W. C. Stewart. No. 958,036; May 17; Sp. p. 3404; Gaz. vol. 154; p. 587.
Fastener-inserting machines, Work-gage for. F. F. Eno. No. 945,310; Jan. 4; Sp. p. 666; Gaz. vol. 150; p. 104.
Fastener-inserting mechanism. H. A. Ballard. No. 969,934; Sept. 13; Sp. p. 1702; Gaz. vol. 158; p. 293.
Fastener, Metallic. G. W. McGill. No. 974,805; Nov. 8; Sp. p. 1644; Gaz. vol. 160; p. 275.
Fastener-puller. T. G. Plant. No. 958,279; May 17; Sp. p. 3977; Gaz. vol. 154; p. 669.
Fastener, Separable. L. K. Hirshberg. No. 973,430; Oct. 18; Sp. p. 4227; Gaz. vol. 159; p. 720.
Fastener-strips, Machine for making corrugated and saw-toothed metal. E. S. Norton. No. 956,540; May 3; Sp. p. 66; Gaz. vol. 154; p. 14.
Fasteners, Machine for setting and forming metallic. R. B. Lewis. No. 959,020; May 24; Sp. p. 5649; Gaz. vol. 154; p. 950.
Fastening. S. A. Smith. No. 948,530; Feb. 8; Sp. p. 1579; Gaz. vol. 151; p. 278.
Fastening device. E. I. Braddock. No. 945,370; Jan. 4; Sp. p. 796; Gaz. vol. 150; p. 123.
Fastening device. A. D. Field. No. 950,802; Mar. 1; Sp. p. 739; Gaz. vol. 152; p. 118.
Fastening device. M. O'Donovan. No. 953,284; Mar. 29; Sp. p. 5817; Gaz. vol. 152; p. 1052.
Fastening device. F. H. Richards. No. 954,763; Apr. 12; Sp. p. 2323; Gaz. vol. 153; p. 401.
Fastening device. H. A. Farrand. No. 964,226; July 12; Sp. p. 2609; Gaz. vol. 156; p. 430.
Fastening device. E. Erickson. No. 968,036; Aug. 23; Sp. p. 4669; Gaz. vol. 157; p. 815.
Fastening device for doors and the like. C. J. Johnson. No. 964,265; July 12; Sp. p. 2688; Gaz. vol. 156; p. 444.
Fastening device for edgewise-moving closures and the like. D. Schuyler. No. 966,865; Aug. 9; Sp. p. 2239; Gaz. vol. 157; p. 368.
Fastening for garment-supports, Detachable. A. Vanderveld. No. 971,647; Oct. 4; Sp. p. 285; Gaz. vol. 159; p. 51.
Fastening for loops and the like. W. M. Jones and H. Stewart. No. 962,086; June 21; Sp. p. 3857; Gaz. vol. 155; p. 675.
Fastening-inserting machine. W. O. Wheeler. No. 959,666; May 31; Sp. p. 7014; Gaz. vol. 154; p. 1191.
Fastening-inserting machine. T. K. Keith. No. 978,297; Dec. 13; Sp. p. 1910; Gaz. vol. 161; p. 334.
Fastening-machine. W. A. Smith. No. 962,105; June 21; Sp. p. 3895; Gaz. vol. 155; p. 681.
Fastening machine, Metallic-. M. D. Phelan. No. 958,003; May 17; Sp. p. 3278; Gaz. vol. 154; p. 574.
Fastening machines, Work-support for metallic-. M. D. Phelan. No. 945,342; Jan. 4; Sp. p. 736; Gaz. vol. 150; p. 113.
Fastening means. R. M. Dixon. No. 966,176; Aug. 2; Sp. p. 720; Gaz. vol. 157; p. 113.
Fastening members, Attaching means for. F. S. Carr. No. 959,308; May 24; Sp. p. 6251; Gaz. vol. 154; p. 1046.
Fastenings into work, Machine for driving. G. Goddu. No. 950,693; Mar. 1; Sp. p. 488; Gaz. vol. 152; p. 79.
Fastenings, Machine for inserting metallic. T. G. Plant. No. 958,293; May 17; Sp. p. 4078; Gaz. vol. 154; p. 675.
Fastenings, Machine for inserting metallic. E. T. Freeman. No. 970,908; Sept. 20; Sp. p. 3779; Gaz. vol. 158; p. 645.
Fat and other substances, Machine for cutting. E. E. Motter. No. 971,624; Oct. 4; Sp. p. 247; Gaz. vol. 159; p. 44.
Fat from effluents, Apparatus for removing. R. Schilling. No. 975,081; Nov. 8; Sp. p. 2272; Gaz. vol. 160; p. 371.
Fat in milk and other dairy products, Process for the determination of. O. Wendler. No. 961,564; June 14; Sp. p. 2743; Gaz. vol. 155; p. 475.
Fat-like substance from the bodies of bacteria, Preparation of a. G. Deycke. No. 972,345; Oct. 11; Sp. p. 1797; Gaz. vol. 159; p. 316.
Fat, Manufacturing an improved edible. D. Müller. No. 964,674; July 19; Sp. p. 3583; Gaz. vol. 156; p. 613.
Faucet. E. Peterson. No. 950,026; Feb. 22; Sp. p. 4800; Gaz. vol. 151; p. 844.
Faucet. C. Barr. No. 950,801; Mar. 1; Sp. p. 737; Gaz. vol. 152; p. 117.
Faucet. R. G. Cator. No. 951,267; Mar. 8; Sp. p. 1623; Gaz. vol. 152; p. 289.
Faucet. W. J. Sullivan. No. 951,855; Mar. 15; Sp. p. 2840; Gaz. vol. 152; p. 517.
Faucet. C. Ayo. No. 952,865; Mar. 22; Sp. p. 4932; Gaz. vol. 152; p. 886.
Faucet. J. L. Thurston. No. 953,186; Mar. 29; Sp. p. 5616; Gaz. vol. 152; p. 1021.
Faucet. W. B. M. Bashlin. No. 954,607; Apr. 12; Sp. p. 1947; Gaz. vol. 153; p. 345.
Faucet. T. G. Kus. No. 954,744; Apr. 12; Sp. p. 2277; Gaz. vol. 153; p. 394.
Faucet. W. H. Kilbourn. No. 955,272; Apr. 19; Sp. p. 3403; Gaz. vol. 153; p. 605.
Faucet. H. Mueller. No. 955,531; Apr. 19; Sp. p. 3951; Gaz. vol. 153; p. 693.
Faucet. J. Gielow. No. 955,641; Apr. 19; Sp. p. 4209; Gaz. vol. 153; p. 731.
Faucet. J. J. Hannigan. No. 956,082; Apr. 26; Sp. p. 5186; Gaz. vol. 153; p. 913.
Faucet. C. T. Bown and T. E. Smith. No. 957,647; May 10; Sp. p. 2436; Gaz. vol. 154; p. 421.
Faucet. A. R. Pritchard. No. 958,826; May 24; Sp. p. 5249; Gaz. vol. 154; p. 884.
Faucet. J. A. Petro. No. 960,695; June 7; Sp. p. 932; Gaz. vol. 155; p. 154.
Faucet. W. E. Porter and O. B. Thomas. No. 961,011; June 7; Sp. p. 1554; Gaz. vol. 155; p. 260.
Faucet. W. S. Graham. No. 962,084; June 21; Sp. p. 3853; Gaz. vol. 155; p. 674.
Faucet. W. Haynes. No. 963,221; July 5; Sp. p. 497; Gaz. vol. 156; p. 69.
Faucet. V. Retisky. No. 964,317; July 12; Sp. p. 2793; Gaz. vol. 156; p. 461.
Faucet. A. A. Bowser. No. 964,486; July 19; Sp. p. 3146; Gaz. vol. 156; p. 547.
Faucet. A. A. Bowser. No. 964,487; July 19; Sp. p. 3148; Gaz. vol. 156; p. 548.
Faucet. H. G. Cordley. No. 964,615; July 19; Sp. p. 3469; Gaz. vol. 156; p. 593.
Faucet. G. J. Silver. No. 966,061; Aug. 2; Sp. p. 473; Gaz. vol. 157; p. 76.
Faucet. W. Gowie. No. 966,682; Aug. 9; Sp. p. 1802; Gaz. vol. 157; p. 308.
Faucet. G. R. Hohman. No. 967,772; Aug. 16; Sp. p. 4105; Gaz. vol. 157; p. 703.
Faucet. C. A. Tilly. No. 967,861; Aug. 16; Sp. p. 4283; Gaz. vol. 157; p. 733.
Faucet. R. A. Kiena. No. 969,108; Aug. 30; Sp. p. 6953; Gaz. vol. 157; p. 1210.
Faucet. J. Morehead. No. 970,082; Sept. 13; Sp. p. 2026; Gaz. vol. 158; p. 344.

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Faucet. S. A. Dennis. No. 971,361; Sept. 27; Sp. p. 4709; Gaz. vol. 158; p. 822.
Faucet. E. W. Tuerk and R. G. Zahalan. No. 971,646; Oct. 4; Sp. p. 284; Gaz. vol. 159; p. 51.
Faucet. H. G. Cordley and G. R. Long. No. 972,826; Oct. 18; Sp. p. 2854; Gaz. vol. 159; p. 509.
Faucet. F. Parker. No. 973,294; Oct. 18; Sp. p. 3932; Gaz. vol. 159; p. 673.
Faucet. R. L. Caffery. No. 973,914; Oct. 25; Sp. p. 5250; Gaz. vol. 159; p. 910.
Faucet. D. Craig. No. 974,028; Oct. 25; Sp. p. 5485; Gaz. vol. 159; p. 951.
Faucet. W. L. Heuser. No. 974,790; Nov. 8; Sp. p. 1612; Gaz. vol. 160; p. 271.
Faucet. F. Gruschow. No. 974,878; Nov. 8; Sp. p. 1811; Gaz. vol. 160; p. 301.
Faucet. H. F. Schroeder. No. 978,660; Dec. 13; Sp. p. 2704; Gaz. vol. 161; p. 460.
Faucet. E. Mulder. No. 979,084; Dec. 20; Sp. p. 3599; Gaz. vol. 161; p. 628.
Faucet and strainer. R. B. Disbrow. No. 945,763; Jan. 11; Sp. p. 1683; Gaz. vol. 150; p. 282.
Faucet attachment. G. B. N. Dow. No. 950,529; Mar. 1; Sp. p. 146; Gaz. vol. 152; p. 24.
Faucet attachment. S. E. Gladding. No. 971,602; Oct. 4; Sp. p. 202; Gaz. vol. 159; p. 36.
Faucet, Automatic. W. A. Schmeykal. No. 961,538; June 14; Sp. p. 2690; Gaz. vol. 155; p. 466.
Faucet, Beer-. C. M. D. Gros. No. 969,053; Aug. 30; Sp. p. 6831; Gaz. vol. 157; p. 1190.
Faucet-closing device. A. E. Redlich. No. 971,473; Sept. 27; Sp. p. 4903; Gaz. vol. 158; p. 858.
Faucet, Combination-. A. Beyer. No. 961,426; June 14; Sp. p. 2430; Gaz. vol. 155; p. 428.
Faucet connection, Flexible. F. S. Skiff. No. 947,461; Jan. 25; Sp. p. 5475; Gaz. vol. 150; p. 915.
Faucet-coupling. C. F. Ackerman. No. 964,731; July 19; Sp. p. 3805; Gaz. vol. 156; p. 633.
Faucet, Dispensing-. E. E. Murphy. No. 960,675; June 7; Sp. p. 890; Gaz. vol. 155; p. 147.
Faucet, Drinking-. J. P. Heeney. No. 979,489; Dec. 27; Sp. p. 4468; Gaz. vol. 161; p. 789.
Faucet for drawing liquids. G. Wegman. No. 957,524; May 10; Sp. p. 2197; Gaz. vol. 154; p. 379.
Faucet for soda-fountains. W. M. Megget. No. 954,320; Apr. 5; Sp. p. 1331; Gaz. vol. 153; p. 220.
Faucet gage, Cask-. J. C. Newman. No. 977,216; Nov. 29; Sp. p. 6937; Gaz. vol. 160; p. 1179.
Faucet, Glue-. C. M. Zimmerman. No. 971,337; Sept. 27; Sp. p. 4655; Gaz. vol. 158; p. 814.
Faucet-handle. H. Mueller. No. 963,166; July 5; Sp. p. 352; Gaz. vol. 156; p. 50.
Faucet, Locking-. J. S. Ericson. No. 958,735; May 24; Sp. p. 5023; Gaz. vol. 154; p. 851.
Faucet, Measuring-. J. C. Ford. No. 949,890; Feb. 22; Sp. p. 4451; Gaz. vol. 151; p. 795.
Faucet, Measuring-. H. A. Nelon. No. 955,983; Apr. 26; Sp. p. 4971; Gaz. vol. 153; p. 879.
Faucet, Measuring and registering. W. J. McMillan. No. 950,948; Mar. 1; Sp. p. 1018; Gaz. vol. 152; p. 163.
Faucet, Mixing-. W. L. Ross and D. C. Tollinger. No. 949,044; Feb. 15; Sp. p. 2673; Gaz. vol. 151; p. 476.
Faucet or cock. J. Davis. No. 967,886; Aug. 23; Sp. p. 4334; Gaz. vol. 157; p. 765.
Faucet, Push-. G. R. Long. No. 953,342; Mar. 29; Sp. p. 5944; Gaz. vol. 152; p. 1072.
Faucet, Sanitary automatic. A. J. Ketelsen. No. 961,356; June 14; Sp. p. 2303; Gaz. vol. 155; p. 407.
Faucet, Sanitary filtering-. G. W. Durbrow. No. 966,180; Aug. 2; Sp. p. 729; Gaz. vol. 157; p. 115.
Faucet, Self-closing. J. P. Farley. No. 968,039; Aug. 23; Sp. p. 4675; Gaz. vol. 157; p. 817.
Faucet, Self-closing. J. P. Farley. No. 971,739; Oct. 4; Sp. p. 483; Gaz. vol. 159; p. 84.
Faucet, Two-way. E. E. Koken. No. 960,558; June 7; Sp. p. 655; Gaz. vol. 155; p. 107.
Faucet, Vacuum-. W. Whelan. No. 958,709; May 17; Sp. p. 4962; Gaz. vol. 154; p. 816.
Faucet, Water-. E. A. Strong, Sr. No. 965,343; July 26; Sp. p. 5070; Gaz. vol. 156; p. 871.
Faucets, Hose connection for. B. D. Knickerbocker. No. 975,873; Nov. 15; Sp. p. 3955; Gaz. vol. 160; p. 666.
Faucets, Price-computing attachment for measuring-. C. Jones. No. 960,946; June 7; Sp. p. 1409; Gaz. vol. 155; p. 237.
Faucets, Refining wooden. A. J. Ketelsen. No. 968,770; Aug. 30; Sp. p. 6276; Gaz. vol. 157; p. 1095.
Feather, Artificial. M. Veit. No. 967,872; Aug. 16; Sp. p. 4305; Gaz. vol. 157; p. 736.
Feather holder and support. N. Force. No. 951,946; Mar. 15; Sp. p. 3023; Gaz. vol. 152; p. 547.
Feather plume. D. Metzger. No. 964,476; July 12; Sp. p. 3108; Gaz. vol. 156; p. 511.
Feathering-machine. G. J. Kilb and Theobald Ringenbach. No. 966,561; Aug. 9; Sp. p. 1573; Gaz. vol. 157; p. 268.
Feed apparatus, Measured. W. B. Bolles. No. 972,804; Oct. 18; Sp. p. 2803; Gaz. vol. 159; p. 501.
Feed arrangement for tube-boilers. L. M. G. Delaunay-Belleville. No. 969,042; Aug. 30; Sp. p. 6806; Gaz. vol. 157; p. 1186.
Feed-arresting device. B. M. W. Hanson. No. 945,454; Jan. 4; Sp. p. 955; Gaz. vol. 150; p. 150.
Feed-bag. H. B., A., and L. Drosin. No. 945,500; Jan. 4; Sp. p. 1071; Gaz. vol. 150; p. 165.
Feed-bag. C. H. Henckler. No. 953,032; Mar. 29; Sp. p. 5266; Gaz. vol. 152; p. 970.
Feed-bag. G. B. F. Emerick. No. 957,046; May 3; Sp. p. 1178; Gaz. vol. 154; p. 187.
Feed-bag. J. H. Esders. No. 958,611; May 17; Sp. p. 4779; Gaz. vol. 154; p. 784.
Feed-bag. A. Kappenberg. No. 962,708; June 28; Sp. p. 5224; Gaz. vol. 155; p. 912.
Feed-bag. J. F. Hammel. No. 965,179; July 26; Sp. p. 4707; Gaz. vol. 156; p. 815.
Feed-bag. C. D. De Lap. No. 965,570; July 26; Sp. p. 5578; Gaz. vol. 156; p. 949.
Feed-bag. T. C. Adams. No. 967,874; Aug. 23; Sp. p. 4311; Gaz. vol. 157; p. 761.
Feed-bag. E. R. Dempsey. No. 970,021; Sept. 13; Sp. p. 1905; Gaz. vol. 158; p. 323.
Feed-bag. C. A. Boyd. No. 970,299; Sept. 13; Sp. p. 2477; Gaz. vol. 158; p. 417.
Feed-bag. C. and B. Leadbetter. No. 978,761; Dec. 13; Sp. p. 2908; Gaz. vol. 161; p. 492.
Feed-bag. H. C. Shaw. No. 979,345; Dec. 20; Sp. p. 4167; Gaz. vol. 161; p. 719.
Feed-bag. C. E. Tomlinson. No. 980,026; Dec. 27; Sp. p. 5621; Gaz. vol. 161; p. 972.
Feed-bag and support therefor. J. F. Hammel. No. 965,180; July 26; Sp. p. 4708; Gaz. vol. 156; p. 815.
Feed-bag for horses. C. W. Millsaps. No. 955,183; Apr. 19; Sp. p. 3202; Gaz. vol. 153; p. 575.
Feed-box. E. O. Storelee. No. 947,262; Jan. 25; Sp. p. 4984; Gaz. vol. 150; p. 847.
Feed-box. F. P. Endicott. No. 965,699; July 26; Sp. p. 5850; Gaz. vol. 156; p. 994.
Feed-box. C. O. Mastrud. No. 978,915; Dec. 20; Sp. p. 3204; Gaz. vol. 161; p. 569.
Feed-controlling mechanism. A. L. De Leeuw and S. Einstein. No. 961,405; June 14; Sp. p. 2381; Gaz. vol. 155; p. 421.
Feed-cutters, Conveyer for. M. Freeman. No. 961,601; June 14; Sp. p. 2815; Gaz. vol. 155; p. 487.
Feed-cutters, Knife-adjusting means for. J. J. Grommë. No. 958,743; May 24; Sp. p. 5054; Gaz. vol. 154; p. 854.
Feed-cutters, Self-feeder for. H. J. Mueller. No. 972,465; Oct. 11; Sp. p. 2044; Gaz. vol. 159; p. 358.
Feed-grinder. S. K. Dennis and F. W. Rice. No. 956,892; May 3; Sp. p. 856; Gaz. vol. 154; p. 136.
Feed heating and superheating boiler. S. A. Reeve. No. 960,704; June 7; Sp. p. 949; Gaz. vol. 155; p. 157.
Feed-hoppers, Cut-off device for. G. P. and P. D. Burke. No. 954,850; Apr. 12; Sp. p. 2531; Gaz. vol. 153; p. 432.
Feed mechanism. D. C. Griggs and R. L. Wilcox. No. 968,046; Aug. 23; Sp. p. 4685; Gaz. vol. 157; p. 819.
Feed-mechanism-controlling device. R. Zahn. No. 966,976; Aug. 9; Sp. p. 2462; Gaz. vol. 157; p. 405.
Feed-mechanism-controlling device. R. Zahn. No. 966,977; Aug. 9; Sp. p. 2463; Gaz. vol. 157; p. 406.
Feed-mill. J. C. Woodcock. No. 976,535; Nov. 22; Sp. p. 5434; Gaz. vol. 160; p. 918.
Feed-mixer. C. H. Hinkhouse. No. 976,363; Nov. 22; Sp. p. 5053; Gaz. vol. 160; p. 858.
Feed-pan, Poultry. G. F. Lewis. No. 948,014; Feb. 1; Sp. p. 486; Gaz. vol. 151; p. 79.
Feed-receptacle. C. P. Flanagan. No. 954,948; Apr. 12; Sp. p. 2743; Gaz. vol. 153; p. 465.
Feed-regulator. M. Durst. No. 952,562; Mar. 22; Sp. p. 4263; Gaz. vol. 152; p. 781.
Feed-regulator. L. C. Roberts. No. 958,314; May 17; Sp. p. 4190; Gaz. vol. 154; p. 683.
Feed-regulator. W. Heyser. No. 966,833; Aug. 9; Sp. p. 2178; Gaz. vol. 157; p. 358.
Feed-regulator. C. E. Warner. No. 977,148; Nov. 29; Sp. p. 6793; Gaz. vol. 160; p. 1154.
Feed regulator, Boiler-. H. E. Cade and D. R. Knapp. No. 953,734; Apr. 5; Sp. p. 104; Gaz. vol. 153; p. 21.
Feed regulator, Boiler-. K. Reubold. No. 970,951; Sept. 20; Sp. p. 3862; Gaz. vol. 158; p. 659.
Feed regulator, Water-. W. H. Bice. No. 962,735; June 28; Sp. p. 5280; Gaz. vol. 155; p. 921.
Feed regulator, Water-. W. H. Bice. No. 963,019; June 28; Sp. p. 5816; Gaz. vol. 155; p. 1018.
Feed-roller and pressure-guide, Combined. E. S. Giles. No. 963,217; July 5; Sp. p. 492; Gaz. vol. 156; p. 68.
Feed-table gage. W. F. Minnick. No. 961,457; June 14; Sp. p. 2501; Gaz. vol. 155; p. 440.
Feed-trough. J. F. Merrill. No. 945,242; Jan. 4; Sp. p. 491; Gaz. vol. 150; p. 80.
Feed-trough. B. F. Miller. No. 960,367; June 7; Sp. p. 266; Gaz. vol. 155; p. 45.
Feed-trough. S. P. Newman. No. 979,026; Dec. 20; Sp. p. 3472; Gaz. vol. 161; p. 609.
Feed-trough, Adjustable. F. C. Griner. No. 962,635; June 28; Sp. p. 5070; Gaz. vol. 155; p. 886.

Alphabetical list of inventions—Continued.

Feed-water by exhaust-steam from steam-engines, Apparatus for heating. J. Kerfoot. No. 957,688; May 10; Sp. p. 2524; Gaz. vol. 154; p. 436.
Feed-water controller. R. M. Reynolds and B. F. Page. No. 964,690; July 19; Sp. p. 3724; Gaz. vol. 156; p. 619.
Feed-water controller for boilers. R. M. Reynolds. No. 962,050; June 21; Sp. p. 3767; Gaz. vol. 155; p. 661.
Feed-water device for steam-boilers, Automatic. E. E. Norman. No. 979,546; Dec. 27; Sp. p. 4587; Gaz. vol. 161; p. 808.
Feed-water heater. A. A. Amstutz. No. 954,157; Apr. 5; Sp. p. 981; Gaz. vol. 153; p. 166.
Feed-water heater. J. S. Sweeny and W. W. Grindle. No. 960,209; May 31; Sp. p. 8184; Gaz. vol. 154; p. 1377.
Feed-water heater. W. S. Ferguson. No. 971,599; Oct. 4; Sp. p. 195; Gaz. vol. 159; p. 35.
Feed-water heater and grease and oil separator, Combined. C. J. Johnson. No. 966,022; Aug. 2; Sp. p. 386; Gaz. vol. 157; p. 61.
Feed-water heater and purifier. T. J. Cookson. No. 972,824; Oct. 18; Sp. p. 2849; Gaz. vol. 159; p. 509.
Feed-water heater and purifier, Boiler. W. J. McKnight. No. 952,930; Mar. 22; Sp. p. 5050; Gaz. vol. 152; p. 907.
Feed-water heater and separator. J. W. Gamble. No. 979,462; Dec. 27; Sp. p. 4412; Gaz. vol. 161; p. 780.
Feed-water heater and separator. A. B. Wallem. No. 979,612; Dec. 27; Sp. p. 4744; Gaz. vol. 161; p. 833.
Feed-water heater and smoke-consumer. G. C. Miller. No. 972,772; Oct. 11; Sp. p. 2735; Gaz. vol. 159; p. 465.
Feed-water heater, Boiler. W. C. Barnes. No. 968,023; Aug. 23; Sp. p. 4642; Gaz. vol. 157; p. 810.
Feed-water-heating appliance. C. J. Mellin. No. 960,364; June 7; Sp. p. 260; Gaz. vol. 155; p. 44.
Feed-water-heating device. J. Fournia. No. 976,794; Nov. 22; Sp. p. 5964; Gaz. vol. 160; p. 1007.
Feed-water purifier. F. E. Keyes. No. 952,620; Mar. 22; Sp. p. 4394; Gaz. vol. 152; p. 802.
Feed-water purifier, Boiler. I. Adler. No. 961,060; June 7; Sp. p. 1653; Gaz. vol. 155; p. 276.
Feed-water-purifying system. G. Wilkinson. No. 977,578; Dec. 6; Sp. p. 372; Gaz. vol. 161; p. 55.
Feed-water regulator. A. R. Herlache. No. 949,896; Feb. 22; Sp. p. 4462; Gaz. vol. 151; p. 797.
Feed-water regulator. F. H. Plouff. No. 950,493; Mar. 1; Sp. p. 66; Gaz. vol. 152; p. 12.
Feed-water regulator. L. B. Fulton. No. 959,334; May 24; Sp. p. 6308; Gaz. vol. 154; p. 1055.
Feed-water regulator. C. O. Bergmark. No. 961,577; June 14; Sp. p. 2762; Gaz. vol. 155; p. 479.
Feed-water regulator. R. M. Hunter. No. 968,948; Aug. 30; Sp. p. 6626; Gaz. vol. 157; p. 1154.
Feed-water regulator. T. J. Quirk. No. 969,078; Aug. 30; Sp. p. 6888; Gaz. vol. 157; p. 1199.
Feed-water regulator. T. R. Whittaker. No. 980,037; Dec. 27; Sp. p. 5663; Gaz. vol. 161; p. 975.
Feed-water regulator, Boiler. H. E. Cade and D. R. Knapp. No. 971,357; Sept. 27; Sp. p. 4702; Gaz. vol. 158; p. 821.
Feed-water regulator for steam-generators and the like. J. E. and A. Shaw, W., T. W., and A. Lees. No. 978,664; Dec. 13; Sp. p. 2710; Gaz. vol. 161; p. 461.
Feeder. J. W. Hildebrand. No. 956,093; Apr. 26; Sp. p. 5214; Gaz. vol. 153; p. 917.
Feeder and fountain, Automatic. H. H. Grant. No. 966,907; Aug. 9; Sp. p. 2327; Gaz. vol. 157; p. 382.
Feeder, Animal-. G. G. Fryer. No. 964,906; July 19; Sp. p. 4165; Gaz. vol. 156; p. 694.
Feeder, Automatic boiler-. C. J. Lindberg. No. 950,538; Mar. 1; Sp. p. 162; Gaz. vol. 152; p. 27.
Feeder, Automatic animal-. C. Caspari. No. 963,866; July 12; Sp. p. 1886; Gaz. vol. 156; p. 310.
Feeder, Boiler-. A. Jünger. No. 964,916; July 19; Sp. p. 4186; Gaz. vol. 156; p. 697.
Feeder, Calf-. H. C. Berry and S. B. Epler. No. 966,645; Aug. 9; Sp. p. 1730; Gaz. vol. 157; p. 295.
Feeder, Horse-. J. C. Snyder. No. 955,005; Apr. 12; Sp. p. 2854; Gaz. vol. 153; p. 484.
Feeder, Poultry-. F. Enos, Jr. No. 952,793; Mar. 22; Sp. p. 4782; Gaz. vol. 152; p. 861.
Feeder, Poultry-. E. R. Donaldson. No. 955,503; Apr. 19; Sp. p. 3897; Gaz. vol. 153; p. 684.
Feeder, Poultry-. C. N. Whitney. No. 963,968; July 12; Sp. p. 2090; Gaz. vol. 156; p. 341.
Feeder, Poultry-. H. E. Bryan. No. 979,421; Dec. 27; Sp. p. 4322; Gaz. vol. 161; p. 767.
Feeder-regulator, Automatic. B. P. Rucker. No. 980,129; Dec. 27; Sp. p. 5890; Gaz. vol. 161; p. 1006.
Feeder, Stock-. D. T. McKinnie. No. 948,016; Feb. 1; Sp. p. 488; Gaz. vol. 151; p. 79.
Feeder, Stock-. F. W. Kellum. No. 961,779; June 21; Sp. p. 3179; Gaz. vol. 155; p. 571.
Feeder, Stock-. A. J. and C. Harris. No. 966,686; Aug. 9; Sp. p. 1813; Gaz. vol. 157; p. 310.
Feeding-bag, Nose. J. N. Beenken. No. 960,250; June 7; Sp. p. 14; Gaz. vol. 155; p. 5.
Feeding device. G. W. Swift, Jr. No. 963,828; July 12; Sp. p. 1804; Gaz. vol. 156; p. 296.
Feeding device. F. G. Gauntt. No. 972,761; Oct. 11; Sp. p. 2714; Gaz. vol. 159; p. 461.
Feeding device, Animal-. R. E. Runner. No. 965,602; July 26; Sp. p. 5637; Gaz. vol. 156; p. 960.
Feeding device, Automatic proportional. E. I. Noxon. No. 952,134; Mar. 15; Sp. p. 3384; Gaz. vol. 152; p. 609.
Feeding device for producers. C. A. Harvey. No. 962,216; June 21; Sp. p. 4142; Gaz. vol. 155; p. 719.
Feeding device, Poultry and animal. I. M. Fredrick. No. 963,041; July 5; Sp. p. 27; Gaz. vol. 156; p. 6.
Feeding device, Stock-. J. Hart and F. F. Green. No. 967,517; Aug. 16; Sp. p. 3601; Gaz. vol. 157; p. 618.
Feeding-machine. G. E. D. Parker. No. 963,170; July 5; Sp. p. 358; Gaz. vol. 156; p. 51.
Feeding mechanism. C. W. Graham. No. 955,866; Apr. 26; Sp. p. 4717; Gaz. vol. 153; p. 837.
Feeding mechanism. E. Stuck. No. 956,444; Apr. 26; Sp. p. 5977; Gaz. vol. 153; p. 1038.
Feeding mechanism. F. Wegner. No. 964,721; July 19; Sp. p. 3784; Gaz. vol. 156; p. 629.
Felly-finishing machine. C. W. Borg. No. 951,981; Mar. 15; Sp. p. 3093; Gaz. vol. 152; p. 558.
Felly-joint bridge. A. Lawrie. No. 974,399; Nov. 1; Sp. p. 717; Gaz. vol. 160; p. 109.
Fence. F. J. Lichty. No. 947,556; Jan. 25; Sp. p. 5700; Gaz. vol. 150; p. 946.
Fence. T. M. Hart. No. 964,470; July 12; Sp. p. 3098; Gaz. vol. 156; p. 509.
Fence. D. E. Williamson. No. 968,908; Aug. 30; Sp. p. 6555; Gaz. vol. 157; p. 1141.
Fence. F. Martin. No. 969,175; Sept. 6; Sp. p. 66; Gaz. vol. 158; p. 12.
Fence. S. Hohulin. No. 975,428; Nov. 15; Sp. p. 3022; Gaz. vol. 160; p. 515.
Fence. L. S. Lachman. (Reissue.) No. 13,176; Nov. 29; Sp. p. 7396; Gaz. vol. 160; p. 1250.
Fence-attaching means for posts, Wire-. L. A. Henning. No. 977,189; Nov. 29; Sp. p. 6891; Gaz. vol. 160; p. 1170.
Fence attachment. J. R. Graft. No. 960,164; May 31; Sp. p. 8087; Gaz. vol. 154; p. 1360.
Fence-clamp. B. F. Steuart. No. 968,998; Aug. 30; Sp. p. 6724; Gaz. vol 157; p. 1171.
Fence-clamp. E. Love. No. 977,958; Dec. 6; Sp. p. 1169; Gaz. vol. 161; p. 187.
Fence clamp, Wire-. J. W. Davis. No. 955,254; Apr. 19; Sp. p. 3371; Gaz. vol. 153; p. 600.
Fence construction, Post and wire-. P. F. Frost. No. 962,632; June 28; Sp. p. 5063; Gaz. vol. 155; p. 885.
Fence-coupling. J. Williams. No. 946,629; Jan. 18; Sp. p. 3623; Gaz. vol. 150; p. 608.
Fence fastener, Wire-. W. F. M. Smail. No. 973,576; Oct. 25; Sp. p. 4533; Gaz. vol. 159; p. 792.
Fence, Flood-. W. Kemper. No. 965,111; July 19; Sp. p. 4564; Gaz. vol. 156; p. 761.
Fence-gate. S. R. Leonard. No. 963,447; July 5; Sp. p. 970; Gaz. vol. 156; p. 145.
Fence-machine. C. Kubach. No. 947,470; Jan. 25; Sp. p. 5488; Gaz. vol. 150; p. 917.
Fence-machine. H. Roberts. No. 955,907; Apr. 26; Sp. p. 4813; Gaz. vol. 153; p. 852.
Fence-machine. A. L. Kitselman. No. 980,105; Dec. 27; Sp. p. 5822; Gaz. vol. 161; p. 997.
Fence machine, Wire-. D. A. Clawson. No. 953,517; Mar. 29; Sp. p. 6327; Gaz. vol. 152; p. 1134.
Fence machine, Wire-. W. M. and C. E. Birch. No. 961,477; June 14; Sp. p. 2544; Gaz. vol. 155; p. 446.
Fence machine, Wire-. I. N. Morford. No. 963,620; July 5; Sp. p. 1320; Gaz. vol. 156; p. 204.
Fence machine, Wire-. C. L. Payne. No. 966,590; Aug. 9; Sp. p. 1629; Gaz. vol. 157; p. 278.
Fence machine, Wire-. B. L. Elwell, W. Grimm, and W. F. Drexler, Jr. No. 980,083; Dec. 27; Sp. p. 5755; Gaz. vol. 161; p. 989.
Fence-making machine. R. W. Halliday. No. 946,353; Jan. 11; Sp. p. 2944; Gaz. vol. 150; p. 489.
Fence-making machine. J. A. Reck. No. 947,848; Feb. 1; Sp. p. 149; Gaz. vol. 151; p. 25.
Fence-making machine. C. B. Baumgartner. No. 980,046; Dec. 27; Sp. p. 5680; Gaz. vol. 161; p. 978.
Fence-making machine, Wire-. E. Bartholomew. No. 966,156; Aug. 2; Sp. p. 664; Gaz. vol. 157; p. 106.
Fence-making machine, Wire-. G. E. Mirfield. No. 969,552; Sept. 6; Sp. p. 863; Gaz. vol. 158; p. 136.
Fence, Portable. J. A. Trambley. No. 973,589; Oct. 25; Sp. p. 4560; Gaz. vol. 159; p. 796.
Fence-post. F. Schlegel. No. 945,052; Jan. 4; Sp. p. 94; Gaz. vol. 150; p. 17.
Fence-post. C. Schlared. No. 947,163; Jan. 18; Sp. p. 4755; Gaz. vol. 150; p. 784.
Fence-post. L. A. Nelson. No. 947,929; Feb. 1; Sp. p. 309; Gaz. vol. 151; p. 52.
Fence-post. M. Gage. No. 948,607; Feb. 8; Sp. p. 1751; Gaz. vol. 151; p. 303.
Fence-post. A. L. Roop. No. 949,090; Feb. 15; Sp. p. 2758; Gaz. vol. 151; p. 490.
Fence-post. B. Wise. No. 949,206; Feb. 15; Sp. p. 2987; Gaz. vol. 151; p. 529.
Fence-post. D. H. Miller. No. 951,958; Mar. 15; Sp. p. 3047; Gaz. vol. 152; p. 551.
Fence-post. C. D. Voris. No. 952,654; Mar. 22; Sp. p. 4479; Gaz. vol. 152; p. 815.
Fence-post. W. B. and L. A. Henning. No. 952,807; Mar. 22; Sp. p. 4812; Gaz. vol. 152; p. 865.
Fence-post. J. M. Campbell. No. 957,410; May 10; Sp. p. 1969; Gaz. vol. 154; p. 341.

Fence-post. C. T. Howell. No. 957,677; May 10; Sp. p. 2506; Gaz. vol. 154; p. 433.
Fence-post. I. F. Frazier. No. 958,619; May 17; Sp. p. 4793; Gaz. vol. 154; p. 787.
Fence-post. A. W. Sprague. No. 960,597; June 7; Sp. p. 727; Gaz. vol. 155; p. 120.
Fence-post. H. S. Perry. No. 962,523; June 28; Sp. p. 4828; Gaz. vol. 155; p. 849.
Fence-post. S. W. Loomis. No. 962,905; June 28; Sp. p. 5604; Gaz. vol. 155; p. 981.
Fence-post. J. W. Culp. No. 965,692; July 26; Sp. p. 5832; Gaz. vol. 156; p. 992.
Fence-post. C. L. Michod. No. 966,111; Aug. 2; Sp. p. 564; Gaz. vol. 157; p. 92.
Fence-post. D. Darling. No. 968,543; Aug. 30; Sp. p. 5770; Gaz. vol. 157; p. 1015.
Fence-post. W. Hooper. No. 971,270; Sept. 27; Sp. p. 4535; Gaz. vol. 158; p. 793.
Fence-post. E. H. E. Thieroff. No. 972,733; Oct. 11; Sp. p. 2667; Gaz. vol. 159; p. 452.
Fence-post. G. L. Prescott, F. R. Ellis, and C. Jensen. No. 972,912; Oct. 18; Sp. p. 3086; Gaz. vol. 159; p. 542.
Fence-post. W. Parker. No. 973,295; Oct. 18; Sp. p. 3933; Gaz. vol. 159; p. 673.
Fence-post. J. A. and W. A. Warner. No. 976,323; Nov. 22; Sp. p. 4956; Gaz. vol. 160; p. 845.
Fence-post, Anchoring. F. E. Saunders. No. 963,075; July 5; Sp. p. 100; Gaz. vol. 156; p. 18.
Fence-post and anchorage-base. P. T. Bailey. No. 959,286; May 24; Sp. p. 6210; Gaz. vol. 154; p. 1037.
Fence post and bracer, Line and corner. S. F. Webb. No. 966,969; Aug. 9; Sp. p. 2450; Gaz. vol. 157; p. 403.
Fence-post and wire-stretcher, Combined. W. J. Davis. No. 961,108; June 14; Sp. p. 1756; Gaz. vol. 155; p. 319.
Fence-post brace. W. O. Freeland. No. 962,950; June 28; Sp. p. 5682; Gaz. vol. 155; p. 996.
Fence-post brace. A. W. Hamilton and E. L. Thompson. No. 978,740; Dec. 13; Sp. p. 2869; Gaz. vol. 161; p. 486.
Fence-post, Metallic. J. W. Altmyer. No. 946,093; Jan. 11; Sp. p. 2391; Gaz. vol. 150; p. 398.
Fence-post, Metallic. G. W. Weil. No. 976,235; Nov. 22; Sp. p. 4756; Gaz. vol. 160; p. 815.
Fence-post, Metallic. W. R. Stewart. No. 978,505; Dec. 13; Sp. p. 2348; Gaz. vol. 161; p. 405.
Fence-post mold. P. Engle. No. 950,756; Mar. 1; Sp. p. 635; Gaz. vol. 152; p. 102.
Fence-post mold. J. Lane. No. 972,699; Oct. 11; Sp. p. 2579; Gaz. vol. 159; p. 439.
Fence-post mold or form. A. L. Roop. No. 949,091; Feb. 15; Sp. p. 2759; Gaz. vol. 151; p. 491.
Fence post, Portable wire-. W. B. Stambaugh. No. 963,659; July 5; Sp. p. 1390; Gaz. vol. 156; p. 216.
Fence-posts and the like, Mold for forming. Q. G. Sheldon. No. 963,818; July 12; Sp. p. 1765; Gaz. vol. 156; p. 292.
Fence, Snow-. H. J. Schweitzer. No. 979,036; Dec. 20; Sp. p. 3497; Gaz. vol. 161; p. 612.
Fence-stretcher. M. Wilson. No. 951,979; Mar. 15; Sp. p. 3090; Gaz. vol. 152; p. 558.
Fence-stretcher. P. A. Reid. No. 969,980; Sept. 13; Sp. p. 1809; Gaz. vol. 158; p. 308.
Fence-stretcher. G. W. Hammond. No. 970,495; Sept. 20; Sp. p. 2881; Gaz. vol. 158; p. 503.
Fence stretcher, Wire-. C. L. Graham. No. 973,034; Oct. 18; Sp. p. 3372; Gaz. vol. 159; p. 584.
Fence, Temporary. W. J. Williams. No. 976,714; Nov. 22; Sp. p. 5781; Gaz. vol. 160; p. 978.
Fence-tie. E. A. Smith. No. 953,400; Mar. 29; Sp. p. 6080; Gaz. vol. 152; p. 1092.
Fence tie, Wire-. C. Mercer. No. 979,683; Dec. 27; Sp. p. 4889; Gaz. vol. 161; p. 857.
Fence-tightener. S. R. Austin. No. 977,995; Dec. 6; Sp. p. 1230; Gaz. vol. 161; p. 198.
Fence, Waterway stock-. E. E. Tyler. No. 952,023; Mar. 15; Sp. p. 3177; Gaz. vol. 152; p. 572.
Fence-weaving machine, Wire-. C. A. Willmarth. No. 965,268; July 26; Sp. p. 4883; Gaz. vol. 156; p. 843.
Fence, Wire. B. L. Elwell and W. Grimm. No. 958,238; May 17; Sp. p. 3883; Gaz. vol. 154; p. 656.
Fence, Wire. D. A. Clawson. No. 971,972; Oct. 4; Sp. p. 1031; Gaz. vol. 159; p. 172.
Fence-wire clamp. E. J. McCain. No. 948,426; Feb. 8; Sp. p. 1365; Gaz. vol. 151; p. 243.
Fence-wire clamp. T. M. Cadle. No. 957,302; May 10; Sp. p. 1746; Gaz. vol. 154; p. 305.
Fence-wire fastener. E. E. Orr. No. 946,848; Jan. 18; Sp. p. 4120; Gaz. vol. 150; p. 682.
Fence-wire fastening. J. G. Hall. No. 977,386; Nov. 29; Sp. p. 7285; Gaz. vol. 160; p. 1237.
Fence-wire-reeling apparatus. A. F. Christ. No. 946,012; Jan. 11; Sp. p. 2231; Gaz. vol. 150; p. 370.
Fence-wiring machine. O. N. Baldwin. No. 950,219; Feb. 22; Sp. p. 5184; Gaz. vol. 151; p. 910.
Fence, Woven-wire. I. J. Young. No. 970,594; Sept. 20; Sp. p. 3088; Gaz. vol. 158; p. 538.
Fences, Clamp for stretching wire. S. W. Berry. No. 948,367; Feb. 8; Sp. p. 1224; Gaz. vol. 151; p. 223.
Fences to stretcher-jacks, Means for clamping. A. and C. A. Church. No. 959,842; May 31; Sp. p. 7385; Gaz. vol. 154; p. 1250.
Fences, Visible warning attachment for barbed-wire. W. MacIntosh. No. 970,524; Sept. 20; Sp. p. 2950; Gaz. vol. 158; p. 514.
Fencing grip, Woven-wire-. A. Knodle. No. 974,159; Nov. 1; Sp. p. 104; Gaz. vol. 160; p. 21.
Fencing, Machine for making wire. W. P. Randall. No. 954,205; Apr. 5; Sp. p. 1079; Gaz. vol. 153; p. 183.
Fencing, Machine for reeling and cutting off wire. J. M. Denning. No. 955,584; Apr. 19; Sp. p. 4050; Gaz. vol. 153; p. 711.
Fender: *See* Automobile-fender; Boat-fender; Car-fender; Car buffer-fender; Cultivator-fender; Fireplace-fender; Life-sheet fender; Locomotive and other vehicle fender; Plow-fender; Rolling-stock fender; Vehicle-fender; Vessel-fender; Wheel-fender.
Fender. G. Hipwood. No. 946,966; Jan. 18; Sp. p. 4389; Gaz. vol. 150; p. 721.
Fender. E. F. Shue. No. 960,120; May 31; Sp. p. 8011; Gaz. vol. 154; p. 1346.
Fender. A. Littman and W. J. Lackie. No. 960,976; June 7; Sp. p. 1477; Gaz. vol. 155; p. 248.
Fender. F. Gautzsch, Jr. No. 962,754; June 28; Sp. p. 5318; Gaz. vol. 155; p. 929.
Fender. O. O. Graff. No. 967,900; Aug. 23; Sp. p. 4362; Gaz. vol. 157; p. 769.
Fender. J. W. Sprint. No. 970,967; Sept. 20; Sp. p. 3889; Gaz. vol. 158; p. 665.
Fender. C. H. Wolcott, C. O., Jr., and E. N. Goodwyne. No. 977,991; Dec. 6; Sp. p. 1224; Gaz. vol. 161; p. 197.
Fermenting organic nitrogenous substances. J. Effront. No. 953,025; Mar. 29; Sp. p. 5245; Gaz. vol. 152; p. 967.
Ferroconcrete construction, Skeleton interlocking reinforce-band for. J. H. MacDonald. No. 964,992; July 19; Sp. p. 4331; Gaz. vol. 156; p. 722.
Ferrule-making tool. R. A. Merrill. No. 972,122; Oct. 4; Sp. p. 1309; Gaz. vol. 159; p. 222.
Ferrule or protector for tool-handles. R. Bramley. No. 945,689; Jan. 4; Sp. p. 1456; Gaz. vol. 150; p. 227.
Ferrules, Making cant-hook. S. Enterline. No. 949,319; Feb. 15; Sp. p. 3220; Gaz. vol. 151; p. 568.
Ferrules, Making plumbers'. R. A. Merrill. No. 973,802; Oct. 25; Sp. p. 5010; Gaz. vol. 159; p. 871.
Fertilizer. A. Frank and H. Freudenberg. (Reissue.) No. 13,131; July 12; Sp. p. 3118; Gaz. vol. 156; p. 514.
Fertilizer. C. Ellis. No. 976,793; Nov. 22; Sp. p. 5962; Gaz. vol. 160; p. 1007.
Fertilizer and making the same. S. B. Newberry. No. 972,567; Oct. 11; Sp. p. 2310; Gaz. vol. 159; p. 396.
Fertilizer and producing same. L. R. Coates. No. 947,796; Feb. 1; Sp. p. 34; Gaz. vol. 151; p. 8.
Fertilizer-distributer. E. C. Smith. (Reissue.) No. 13,071; Jan. 4; Sp. p. 1597; Gaz. vol. 150; p. 247.
Fertilizer-distributer. O. O. Newberry. No. 951,216; Mar. 8; Sp. p. 1515; Gaz. vol. 152; p. 273.
Fertilizer-distributer. F. A. Preuss. No. 951,221; Mar. 8; Sp. p. 1526; Gaz. vol. 152; p. 275.
Fertilizer-distributer. T. B. Ingram. No. 952,252; Mar. 15; Sp. p. 3604; Gaz. vol. 152; p. 649.
Fertilizer-distributer. C. C. Butler. No. 955,132; Apr. 19; Sp. p. 3103; Gaz. vol. 153; p. 556.
Fertilizer-distributer. C. C. Butler. No. 955,133; Apr. 19; Sp. p. 3104; Gaz. vol. 153; p. 557.
Fertilizer-distributer. C. H. Pelton. No. 955,354; Apr. 19; Sp. p. 3580; Gaz. vol. 153; p. 633.
Fertilizer-distributer. O. W. Siebenhaar. No. 959,628; May 31; Sp. p. 6919; Gaz. vol. 154; p. 1178.
Fertilizer-distributer. O. B. Beard. No. 963,267; July 5; Sp. p. 612; Gaz. vol. 156; p. 85.
Fertilizer-distributer. D. Cahill. No. 963,684; July 5; Sp. p. 1435; Gaz. vol. 156; p. 225.
Fertilizer-distributer. G. Karnatz. No. 964,787; July 19; Sp. p. 3924; Gaz. vol. 156; p. 652.
Fertilizer-distributer. C. Ruof. No. 968,267; Aug. 23; Sp. p. 5196; Gaz. vol. 157; p. 894.
Fertilizer-distributer and seed-planter, Combined. A. C. Lindgren. No. 968,671; Aug. 30; Sp. p. 6043; Gaz. vol. 157; p. 1061.
Fertilizer-distributer and seeder, Combined W. J. Adams. No. 971,338; Sept. 27; Sp. p. 4657; Gaz. vol. 158; p. 815.
Fertilizer-distributer attachment for cultivators. E. and E. Jensen and F. W. Austin. No. 950,230; Feb. 22; Sp. p. 5213; Gaz. vol. 151; p. 914.
Fertilizer-distributers, Conveyer-apron for. E. Buswell and T. Cascaden, Jr. No. 971,662; Oct. 4; Sp. p. 315; Gaz. vol. 159; p. 57.
Fertilizer for cotton, Insectifuge. R. G. White. No. 968,013; Aug. 23; Sp. p. 4618; Gaz. vol. 157; p. 807.
Fertilizer, Making. R. A. McVitty. No. 950,455; Feb. 22; Sp. p. 5625; Gaz. vol. 151; p. 987.
Fertilizer, Making. S. B. Newberry. No. 978,193; Dec. 13; Sp. p. 1685; Gaz. vol. 161; p. 297.
Fertilizer, Manufacture of. L. R. Coates. No. 971,830; Oct. 4; Sp. p. 665; Gaz. vol. 159; p. 117.
Fertilizer or cement mixing machine. C. R. Herrick. No. 949,536; Feb. 15; Sp. p. 3687; Gaz. vol. 151; p. 640.
Fertilizers, litter, and other materials, Carrier for. R. M. and A. J. Glor. No. 956,073; Apr. 26; Sp. p. 5170; Gaz. vol. 153; p. 911.
Fertilizers, Making stable cyanamid. S. Peacock. No. 968,399; Aug. 23; Sp. p. 5457; Gaz. vol. 157; p. 940.

Alphabetical list of inventions—Continued.

Fertilizers, Preparing mineral. E. Pohl. No. 952,278; Mar. 15; Sp. p. 3668; Gaz. vol. 152; p. 657.
Fertilizers, Producing. L. R. Coates. No. 947,795; Feb. 1; Sp. p. 33; Gaz. vol. 151; p. 8.
Fertilizers, Producing. L. R. Coates. No. 947,798; Feb. 1; Sp. p. 36; Gaz. vol. 151; p. 8.
Fiber board and making the same, Flexible vulcanized-. G. Kelly. No. 966,101; Aug. 2; Sp. p. 550; Gaz. vol. 157; p. 89.
Fiber-cleaner. H. Pettit. No. 950,757; Mar. 1; Sp. p. 636; Gaz. vol. 152; p. 102.
Fiber-cleaning device. M. G. McLane. No. 978,389; Dec. 13; Sp. p. 2110; Gaz. vol. 161; p. 367.
Fiber-feeding machine. J. A. Pinkstone. No. 980,000; Dec. 27; Sp. p. 5568; Gaz. vol. 161; p. 962.
Fiber for felting and preparing the same, Animal. M. E. Ryan. No. 970,756; Sept. 20; Sp. p. 3474; Gaz. vol. 158; p. 594.
Fiber, Making a resilient. S. A. Flower. No. 957,152; May 3; Sp. p. 1383; Gaz. vol. 154; p. 222.
Fiber, Producing brown, olive, and green shades on the. H. Schmid. No. 963,656; July 5; Sp. p. 1386; Gaz. vol. 156; p. 216.
Fiber-yielding materials, Reducing. G. H. Marshall. No. 971,457; Sept. 27; Sp. p. 4873; Gaz. vol. 158; p. 854.
Fibers from the pulp and extraneous matter of plants and trees, Machine for separating. E. Behrendt. No. 970,166; Sept. 13; Sp. p. 2179; Gaz. vol. 158; p. 371.
Fibers from vegetable tissues, Extracting. M. R. Kennedy. No. 951,317; Mar. 8; Sp. p. 1744; Gaz. vol. 152; p. 306.
Fibers, Treating brittle vegetable. E. G. Stark. No. 962,173; June 21; Sp. p. 4066; Gaz. vol. 155; p. 706.
Fibrous and cellular material, Indurating. L. H. Baekeland. No. 949,671; Feb. 15; Sp. p. 3922; Gaz. vol. 151; p. 684.
Fibrous fabric. G. C. Rasch. No. 970,950; Sept. 20; Sp. p. 3861; Gaz. vol. 158; p. 659.
Fibrous material, Treating. R. R. Roberts. No. 952,996; Mar. 22; Sp. p. 5171; Gaz. vol. 152; p. 929.
Fibrous material, Treating. R. R. Roberts. No. 953,010; Mar. 22; Sp. p. 5211; Gaz. vol. 152; p. 934.
Fibrous materials, Apparatus for felting. E. M. Knight. No. 973,280; Oct. 18; Sp. p. 3901; Gaz. vol. 159; p. 668.
Fibrous plants, Treating. G. R. de Montlord. No. 945,471; Jan. 4; Sp. p. 993; Gaz. vol. 150; p. 156.
Fibrous sheets, Forming. C. L. Norton. No. 979,547; Dec. 27; Sp. p. 4591; Gaz. vol. 161; p. 809.
Fibrous sheets, Machine for forming. C. L. Norton. No. 979,548; Dec. 27; Sp. p. 4596; Gaz. vol. 161; p. 809.
Field or hunting flask. R. Burger and A. Aschenbrenner. (Reissue.) No. 13,093; Mar. 15; Sp. p. 3978; Gaz. vol. 152; p. 712.
Fifth-wheel. S. Craig. No. 961,844; June 21; Sp. p. 3327; Gaz. vol. 155; p. 592.
Fifth-wheel. R. S. Speer. No. 969,668; Sept. 6; Sp. p. 1095; Gaz. vol. 158; p. 175.
Fifth-wheel, Antifriction. S. C. Baucum. No. 976,620; Nov. 22; Sp. p. 5603; Gaz. vol. 160; p. 947.
Fifth-wheel for automobiles. J. J. Scheib and J. G. Garbart. No. 948,829; Feb. 8; Sp. p. 2230; Gaz. vol. 151; p. 378.
Fifth-wheel for dump-wagons. L. H. Young. No. 959,414; May 24; Sp. p. 6452; Gaz. vol. 154; p. 1080.
Fifth-wheel for wagons. J. W. Haywood. No. 946,672; Jan. 18; Sp. p. 3713; Gaz. vol. 150; p. 621.
Fifth-wheel, Vehicle. M. M. Sherwood. No. 953,717; Apr. 5; Sp. p. 65; Gaz. vol. 153; p. 15.
Fifth-wheel, Wagon. W. A. Underhill. No. 975,004; Nov. 8; Sp. p. 2117; Gaz. vol. 160; p. 344.
Figure, Jointed. G. W. Ferguson. No. 957,666; May 10; Sp. p. 2480; Gaz. vol. 154; p. 429.
Filament and manufacturing the same. G. Michaud and E. Delasson. No. 973,535; Oct. 25; Sp. p. 4457; Gaz. vol. 159; p. 778.
Filament for incandescent-gas-lamp mantles. R. Laigle. No. 966,927; Aug. 9; Sp. p. 2371; Gaz. vol. 157; p. 388.
Filament, Metallic. I. Kitsee. No. 971,385; Sept. 27; Sp. p. 4753; Gaz. vol. 158; p. 830.
Filament, Metallic incandescent. A. Lederer. No. 971,452; Sept. 27; Sp. p. 4864; Gaz. vol. 158; p. 852.
Filament or resistor for heating units or lamps. H. C. Parker and W. G. Clark. No. 976,207; Nov. 22; Sp. p. 4665; Gaz. vol. 160; p. 804.
Filaments, Apparatus for the continuous manufacture of. G. Michaud and E. Delasson. No. 962,910; June 28; Sp. p. 5612; Gaz. vol. 155; p. 983.
Filaments for electric lamps, Manufacture of. F. J. Planchon. No. 968,407; Aug. 23; Sp. p. 5472; Gaz. vol. 157; p. 943.
Filaments for illuminating and heating purposes, Manufacture of. G. Michaud and E. Delasson. No. 972,893; Oct. 18; Sp. p. 3030; Gaz. vol. 159; p. 535.
Filaments for incandescent lamps, Manufacturing. J. W. Howell. No. 955,461; Apr. 19; Sp. p. 3811; Gaz. vol. 153; p. 669.
Filaments, Making incandescent-electric-lamp. H. C. Parker. No. 974,812; Nov. 8; Sp. p. 1658; Gaz. vol. 160; p. 278.
Filaments, Manufacture of electric. C. A. von Welsbach. No. 976,526; Nov. 22; Sp. p. 5414; Gaz. vol. 160; p. 915.
Filaments, Manufacture of electric. C. A. von Welsbach. No. 976,527; Nov. 22; Sp. p. 5418; Gaz. vol. 160; p. 915.
Filaments, Manufacture of electric. C. A. von Welsbach. No. 976,528; Nov. 22; Sp. p. 5420; Gaz. vol. 160; p. 915.
Filaments, Manufacture of electric. C. A. von Welsbach. No. 976,616; Nov. 22; Sp. p. 5596; Gaz. vol. 160; p. 946.
Filaments, Production of incandescent-electric-lamp. W. Rühling. No. 973,883; Oct. 25; Sp. p. 5183; Gaz. vol. 159; p. 900.
File. R. Sellick. No. 947,512; Jan. 25; Sp. p. 5617; Gaz. vol. 150; p. 933.
File. A. E. Landon. No. 963,446; July 5; Sp. p. 969; Gaz. vol. 156; p. 145.
File and binder, Paper. W. A. Springall. No. 947,654; Jan. 25; Sp. p. 5907; Gaz. vol. 150; p. 981.
File and holder, Document. J. Wilson. No. 959,282; May 24; Sp. p. 6203; Gaz. vol. 154; p. 1036.
File attachment. S. Olson. No. 953,544; Mar. 29; Sp. p. 6385; Gaz. vol. 152; p. 1143.
File, Bill and letter. H. C. Watts. No. 977,494; Dec. 6; Sp. p. 145; Gaz. vol. 161; p. 25.
File-binder. J. C. Dawson. No. 965,374; July 26; Sp. p. 5125; Gaz. vol. 156; p. 879.
File, Binding-. D. Taylor. No. 973,722; Oct. 25; Sp. p. 4850; Gaz. vol. 159; p. 844.
File, Book-form bill-. J. E. Benjamin. No. 947,051; Jan. 18; Sp. p. 4541; Gaz. vol. 150; p. 749.
File, Bookkeeping-. C. E. Leer. No. 953,963; Apr. 5; Sp. p. 548; Gaz. vol. 153; p. 99.
File-cabinet. W. J. Ball. No. 954,247; Apr. 5; Sp. p. 1174; Gaz. vol. 153; p. 196.
File-cabinet. R. W. Emmons. No. 968,754; Aug. 30; Sp. p. 6237; Gaz. vol. 157; p. 1091.
File-cabinet. W. A. Harris. No. 974,663; Nov. 1; Sp. p. 1327; Gaz. vol. 160; p. 206.
File-cabinet. F. G. Kollenberg. No. 977,636; Dec. 6; Sp. p. 493; Gaz. vol. 161; p. 74.
File-cabinet, Rotary. C. and W. Liebert. No. 957,784; May 10; Sp. p. 2730; Gaz. vol. 154; p. 467.
File-case, Automatically-closing. C. F. Fogg. No. 969,262; Sept. 6; Sp. p. 243; Gaz. vol. 158; p. 39.
File clip and plate. A. J. Tice. No. 947,622; Jan. 25; Sp. p. 5841; Gaz. vol. 150; p. 970.
File-cutting machine. J. A. Hess. No. 975,236; Nov. 8; Sp. p. 2621; Gaz. vol. 160; p. 424.
File, Document-. J. L. Bieder. No. 952,441; Mar. 22; Sp. p. 3985; Gaz. vol. 152; p. 739.
File, Document-. G. Mott. No. 964,117; July 12; Sp. p. 2401; Gaz. vol. 156; p. 394.
File, Document-. A. G. Clarke. No. 970,989; Sept. 20; Sp. p. 3932; Gaz. vol. 158; p. 672.
File, Emery-cloth. E. Ganz. No. 959,213; May 24; Sp. p. 6063; Gaz. vol. 154; p. 1014.
File, Expansive. H. E. Shedd. No. 979,213; Dec. 20; Sp. p. 3906; Gaz. vol. 161; p. 675.
File for accounts. W. B. Mitchell. No. 963,919; July 12; Sp. p. 1985; Gaz. vol. 156; p. 326.
File for school-desks. E. W. Lee. No. 948,896; Feb. 8; Sp. p. 2358; Gaz. vol. 151; p. 401.
File-handle. T. E. Gill. No. 958,622; May 17; Sp. p. 4797; Gaz. vol. 154; p. 788.
File-holder. E. G. Sampson and A. L. Welham. No. 974,601; Nov. 1; Sp. p. 1195; Gaz. vol. 160; p. 183.
File or binder, Newspaper. C. E. Watterson. No. 960,461; June 7; Sp. p. 437; Gaz. vol. 155; p. 74.
File, Paper-. C. Spiro. No. 956,216; Apr. 26; Sp. p. 5502; Gaz. vol. 153; p. 960.
File, Paper-. C. E. Gibbs. No. 958,801; May 24; Sp. p. 5192; Gaz. vol. 154; p. 875.
File, Paper-. T. C. Seivert. No. 977,682; Dec. 6; Sp. p. 589; Gaz. vol. 161; p. 90.
File, Policy-. T. F. King, Jr., and D. G. Hall. No. 979,314; Dec. 20; Sp. p. 4113; Gaz. vol. 161; p. 709.
File, Receipt-. T. P. Allen. No. 945,434; Jan. 4; Sp. p. 924; Gaz. vol. 150; p. 144.
File, Reference-. F. E. Richardson. No. 967,438; Aug. 16; Sp. p. 3426; Gaz. vol. 157; p. 591.
File spring-clamps, Device for securing. O. Bomborn. No. 968,641; Aug. 30; Sp. p. 5977; Gaz. vol. 157; p. 1051.
File, Vertical. P. MacGregor. No. 947,218; Jan. 18; Sp. p. 4871; Gaz. vol. 150; p. 803.
File-wrapper. V. Munger. No. 965,397; July 26; Sp. p. 5173; Gaz. vol. 156; p. 888.
Files and rasps, Machine for producing. G. Peiseler. No. 957,367; May 10; Sp. p. 1877; Gaz. vol. 154; p. 327.
Files and registers, Holding device for account. L. E. Leonard. No. 956,113; Apr. 26; Sp. p. 5249; Gaz. vol. 153; p. 923.
Files and the like, Machine for cutting. J. Neill. No. 971,066; Sept. 27; Sp. p. 4106; Gaz. vol. 158; p. 726.
Files, System of. T. Waller. No. 972,302; Oct. 11; Sp. p. 1721; Gaz. vol. 159; p. 302.
Filing apparatus. W. T. Grady. No. 977,003; Nov. 29; Sp. p. 6478; Gaz. vol. 160; p. 1105.
Filing appliance. H. J. Hick. No. 973,195; Oct. 18; Sp. p. 3744; Gaz. vol. 159; p. 639.
Filing appliance. P. A. McCaskey. No. 977,960; Dec. 6; Sp. p. 1171; Gaz. vol. 161; p. 187.
Filing appliance. P. A. McCaskey. No. 977,961; Dec. 6; Sp. p. 1176; Gaz. vol. 161; p. 188.

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Filing-cabinet. G. S. Upshaw. No. 945,252; Jan. 4; Sp. p. 515; Gaz. vol. 150; p. 84.
Filing-cabinet. S. Klepfer. No. 957,423; May 10; Sp. p. 2000; Gaz. vol. 154; p. 345.
Filing-cabinet. L. Senge. No. 958,018; May 17; Sp. p. 3326; Gaz. vol. 154; p. 579.
Filing-cabinet. H. J. Davis. No. 962,749; June 28; Sp. p. 5309; Gaz. vol. 155; p. 927.
Filing-cabinet. W. T. Dickey. No. 967,619; Aug. 16; Sp. p. 3799; Gaz. vol. 157; p. 652.
Filing-cabinet. J. B. Potter. No. 968,977; Aug. 30; Sp. p. 6682; Gaz. vol. 157; p. 1163.
Filing-cabinet. J. J. Kuffel. No. 979,010; Dec. 20; Sp. p. 3438; Gaz. vol. 161; p. 604.
Filing cabinet, Bill-. G. Jacobs. No. 966,448; Aug. 9; Sp. p. 1273; Gaz. vol. 157; p. 229.
Filing-cabinet clamp. J. Dannheiser. No. 950,440; Feb. 22; Sp. p. 5605; Gaz. vol. 151; p. 982.
Filing-cabinet, Metal. L. Senge. No. 972,476; Oct. 11; Sp. p. 2083; Gaz. vol. 159; p. 362.
Filing-case. D. F. Greenawalt. No. 964,242; July 12; Sp. p. 2642; Gaz. vol. 156; p. 435.
Filing-case. C. L. Glafcke. No. 965,177; July 26; Sp. p. 4704; Gaz. vol. 156; p. 814.
Filing-case, Stationery. H. S. Bane. No. 953,189; Mar. 29; Sp. p. 5624; Gaz. vol. 152; p. 1022.
Filing compressor, Vertical-. O. Haskell. No. 948,857; Feb. 8; Sp. p. 2277; Gaz. vol. 151; p. 387.
Filing device, Credit-account-. W. Eacrett. No. 971,495; Sept. 27; Sp. p. 4943; Gaz. vol. 158; p. 866.
Filing device for index-papers. F. Pachinger. No. 973,964; Oct. 25; Sp. p. 5338; Gaz. vol. 159; p. 928.
Filing device for scraper-blades. J. Miotke. No. 951,961; Mar. 15; Sp. p. 3054; Gaz. vol. 152; p. 552.
Filing device, Pamphlet-. H. Hemming. No. 966,333; Aug. 2; Sp. p. 1012; Gaz. vol. 157; p. 163.
Filing loose sheets. M. P. Ismay. No. 964,972; July 19; Sp. p. 4290; Gaz. vol. 156; p. 716.
Filing-machine. E. Curtis. No. 974,474; Nov. 1; Sp. p. 916; Gaz. vol. 160; p. 136.
Filing systems, Guide-card for vertical-. T. J. Amberg. No. 963,350; July 5; Sp. p. 776; Gaz. vol. 156; p. 114.
Filler-machine. G. R. Kendrick. No. 980,103; Dec. 27; Sp. p. 5808; Gaz. vol. 161; p. 996.
Filling and crowning machine. L. Litty. No. 951,736; Mar 8; Sp. p. 2568; Gaz. vol. 152; p. 445.
Filling buckets, &c., from hoppers, Means for. A. Smith. No. 969,988; Sept. 13; Sp. p. 1828; Gaz. vol. 158; p. 311.
Filling device. H. W. Wardwell. No. 945,879; Jan. 11; Sp. p. 1947; Gaz. vol. 150; p. 324.
Filling-fork protector. E. S. Wood and J. Northrop. No. 973,095; Oct. 18; Sp. p. 3492; Gaz. vol. 159; p. 603.
Filling-machine. F. C. H. Strasburger. No. 948,462; Feb. 8; Sp. p. 1425; Gaz. vol. 151; p. 255.
Filling-machine. F. C. H. Strasburger. No. 948,463; Feb. 8; Sp. p. 1429; Gaz. vol. 151; p. 255.
Filling-machine. F. C. H. Strasburger. No. 956,867; May 3; Sp. p. 801; Gaz. vol. 154; p. 127.
Filling-machine. C. L. Bastian. No. 956,876; May 3; Sp. p. 816; Gaz. vol. 154; p. 130.
Filling-machine. L. Jaeger. No. 971,894; Oct. 4; Sp. p. 824; Gaz. vol. 159; p. 142.
Filling-machine. J. F. Haller. No. 978,154; Dec. 13; Sp. p. 1599; Gaz. vol. 161; p. 284.
Filling or stuffing material, Manufacture of. R. J. Caldwell and F. Pfleumer. No. 948,845; Feb. 8; Sp. p. 2260; Gaz. vol. 151; p. 383.
Filling-replenishing mechanism. J. Northrop. No. 973,133; Oct. 18; Sp. p. 3573; Gaz. vol. 159; p. 617.
Film-cleaning device. F. E. Mortimer. No. 977,466; Dec. 6; Sp. p. 80; Gaz. vol. 161; p. 16.
Film-developer. A. C. Hayden. No. 976,800; Nov. 22; Sp. p. 5972; Gaz. vol. 160; p. 1008.
Film-drying apparatus. G. E. Hoglund. No. 953,663; Mar. 29; Sp. p. 6633; Gaz. vol. 152; p. 1183.
Film, Gelatin. O. Moh. No. 953,175; Mar. 29; Sp. p. 5585; Gaz. vol. 152; p. 1017.
Film-mending device. H. N. Nickerson and W. J. Cousins. No. 962,381; June 21; Sp. p. 4484; Gaz. vol. 155; p. 774.
Film-pack adapter. J. Goddard. No. 968,341; Aug. 23; Sp. p. 5343; Gaz. vol. 157; p. 921.
Film-perforating machine. J. R. Engelman. No. 978,121; Dec 6; Sp. p. 1505; Gaz. vol. 161; p. 242.
Film-perforating machine. A. and L. Chronik. No. 979,429; Dec. 27; Sp. p. 4334; Gaz. vol. 161; p. 769.
Film-reeling mechanism. A. C. Roebuck. No. 961,536; June 14; Sp. p. 2678; Gaz. vol. 155; p. 465.
Film-roll holder. J. H. Scotchmer. No. 949,450; Feb. 15; Sp. p. 3504; Gaz. vol. 151; p. 612.
Film spreader and holder. O. Sherwood. No. 961,808; June 21; Sp. p. 3250; Gaz. vol. 155; p. 580.
Film-winder. E. A. Bircher. No. 960,795; June 7; Sp. p. 1126; Gaz. vol. 155; p. 188.
Film-winding mechanism for kinetoscopes. J. B. Johnson. No. 978,454; Dec. 13; Sp. p. 2237; Gaz. vol. 161; p. 388.
Filter. H. P. Strahl. No. 945,632; Jan. 4; Sp. p. 1343; Gaz. vol. 150; p. 208.
Filter. G. V. Sponenbarger. No. 945,989; Jan. 11; Sp. p. 2191; Gaz. vol. 150; p. 363.
Filter. C. Sellenscheidt. No. 947,856; Feb. 1; Sp. p. 166; Gaz. vol. 151; p. 28.
Filter. C. Hebbeler. No. 949,357; Feb. 15; Sp. p. 3317; Gaz. vol. 151; p. 581.
Filter. G. L. Allen. No. 952,972; Mar. 22; Sp. p. 5130; Gaz. vol. 152; p. 921.
Filter. H. Pond. No. 954,647; Apr. 12; Sp. p. 2043; Gaz. vol. 153; p. 359.
Filter. G. Moore. No. 955,660; Apr. 19; Sp. p. 4260; Gaz. vol. 153; p. 737.
Filter. F. D. Freeman. No. 955,787; Apr. 19; Sp. p. 4519; Gaz. vol. 153; p. 780.
Filter. G. Knock. No. 956,366; Apr. 26; Sp. p. 5811; Gaz. vol. 153; p. 1010.
Filter. T. F. Seitz. No. 956,832; May 3; Sp. p. 724; Gaz. vol. 154; p. 114.
Filter. H. Brunner. No. 960,267; June 7; Sp. p. 59; Gaz. vol. 155; p. 13.
Filter. G. M. Kneuper. No. 962,031; June 21; Sp. p. 3726; Gaz. vol. 155; p. 654.
Filter. J. Roche. No. 964,696; July 19; Sp. p. 3739; Gaz. vol. 156; p. 621.
Filter. J. S. Gladhill and H. D. Belmer. No. 965,451; July 26; Sp. p. 5297; Gaz. vol. 156; p. 905.
Filter. H. V. Holman. No. 966,918; Aug. 9; Sp. p. 2357; Gaz. vol. 157; p. 386.
Filter. A. Steinkoenig. No. 966,963; Aug. 9; Sp. p. 2436; Gaz. vol. 157; p. 400.
Filter. F. Turek. No. 969,224; Sept. 6; Sp. p. 174; Gaz. vol. 158; p. 28.
Filter. J. H. Clark. No. 969,245; Sept. 6; Sp. p. 208; Gaz. vol. 158; p. 34.
Filter. J. L. Thomson. No. 973,723; Oct. 25; Sp. p. 4852; Gaz. vol. 159; p. 844.
Filter. G. M. Kneuper. No. 973,868; Oct. 25; Sp. p. 5148; Gaz. vol. 159; p. 894.
Filter. L. R. Clark and D. G. Kreul. No. 974,025; Oct. 25; Sp. p. 5479; Gaz. vol. 159; p. 949.
Filter. G. Fleming. No. 976,995; Nov. 29; Sp. p. 6458; Gaz. vol. 160; p. 1102.
Filter and controlling-valve therefor. P. S. Ward. No. 956,914; May 3; Sp. p. 902; Gaz. vol. 154; p. 143.
Filter and cooler, Combined water. A. F. Randall. No. 963,324; July 5; Sp. p. 726; Gaz. vol. 156; p. 104.
Filter and purifier, Feed-water. W. G. Copeland. No. 953,377; Mar. 29; Sp. p. 6031; Gaz. vol. 152; p. 1084.
Filter, Automatic household-. J. Rarick. No. 967,554; Aug. 16; Sp. p. 3667; Gaz. vol. 157; p. 631.
Filter-bag. E. P. Dargin. No. 957,191; May 10; Sp. p. 1481; Gaz. vol. 154; p. 265.
Filter-basin. J. G. Richert. No. 964,694; July 19; Sp. p. 3735; Gaz. vol. 156; p. 620.
Filter-cleaning device. L. V. Rood. No. 950,118; Feb. 22; Sp. p. 4970; Gaz. vol. 151; p. 874.
Filter for cisterns. C. C. Fifield. No. 950,018; Feb. 22; Sp. p. 4788; Gaz. vol. 151; p. 841.
Filter for clarifying gelatin liquors and the like, Bone-black. J. H. Utley. No. 961,180; June 14; Sp. p. 1897; Gaz. vol. 155; p. 344.
Filter for cyanid plants, Centrifugal. C. Shapley. No. 959,173; May 24; Sp. p. 5990; Gaz. vol. 154; p. 1001.
Filter for metallurgical and other purposes. C. G. Patterson. No. 946,862; Jan. 18; Sp. p. 4152; Gaz. vol. 150; p. 686.
Filter, Gasolene or oil. G. T. Reynolds. No. 974,519; Nov. 1; Sp. p. 1026; Gaz. vol. 160; p. 153.
Filter, Oil-. J. F. Deems. No. 966,173; Aug. 2; Sp. p. 714; Gaz. vol. 157; p. 112.
Filter-press. B. Berkovits. No. 947,883; Feb. 1; Sp. p. 229; Gaz. vol. 151; p. 37.
Filter-press. E. W. Heller. No. 962,346; June 21; Sp. p. 4426; Gaz. vol. 155; p. 763.
Filter-press. H. H. Whiting. No. 964,725; July 19; Sp. p. 3796; Gaz. vol. 156; p. 631.
Filter-producing apparatus. C. H. Loew. No. 959,021; May 24; Sp. p. 5654; Gaz. vol. 154; p. 950.
Filter-pulp. R. Polk. No. 965,010; July 19; Sp. p. 4365; Gaz. vol. 156; p. 727.
Filter-pulp washer. L. Sochurek. No. 945,871; Jan. 11; Sp. p. 1932; Gaz. vol. 150; p. 321.
Filter, Rain-water. J. F. Riedy. No. 968,983; Aug. 30; Sp. p. 6694; Gaz. vol. 157; p. 1165.
Filter, Rotary. G. L. Kennedy. No. 973,791; Oct. 25; Sp. p. 4986; Gaz. vol. 159; p. 867.
Filter-stones, Cleaning and sterilizing. H. Jarvis. No. 963,767; July 12; Sp. p. 1633; Gaz. vol. 156; p. 275.
Filter, Suction-. H. E. Kier. No. 978,381; Dec. 13; Sp. p. 2083; Gaz. vol. 161; p. 363.
Filter system. F. Turek. No. 975,483; Nov. 15; Sp. p. 3127; Gaz. vol. 160; p. 535.
Filter, Vacuum-. M. E. Hiltner. No. 957,558; May 10; Sp. p. 2264; Gaz. vol. 154; p. 392.
Filter, Water-. M. Gessler. No. 956,698; May 3; Sp. p. 435; Gaz. vol. 154; p. 69.
Filter, Water-. A. B. Bellis. No. 967,708; Aug. 16; Sp. p. 3969; Gaz. vol. 157; p. 681.
Filter, Water-. C. F. Huber. No. 967,776; Aug. 16; Sp. p. 4116; Gaz. vol. 157; p. 705.
Filter, Water-. V. B. Hagg. No. 967,905; Aug. 23; Sp. p. 4375; Gaz. vol. 157; p. 771.

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Filter, Water-. A. A. Danielson. No. 968,744; Aug. 30; Sp. p. 6221; Gaz. vol. 157; p. 1087.
Filter, Water-. M. G. Melvin. No. 977,209; Nov. 29; Sp. p. 6927; Gaz. vol. 160; p. 1177.
Filters, Manufacture of. F. Sehr. No. 972,723; Oct. 11; Sp. p. 2644; Gaz. vol. 159; p. 449.
Filtering and drying apparatus. E. N. Trump. No. 963,186; July 5; Sp. p. 402; Gaz. vol. 156; p. 57.
Filtering apparatus. N. Marie. No. 948,180; Feb. 1; Sp. p. 819; Gaz. vol. 151; p. 135.
Filtering apparatus. D. J. Kelly. No. 957,467; May 10; Sp. p. 2076; Gaz. vol. 154; p. 360.
Filtering apparatus. C. M. Chamberlain. No. 959,461; May 31; Sp. p. 6569; Gaz. vol. 154; p. 1121.
Filtering apparatus. E. P. Dargin. No. 959,844; May 31; Sp. p. 7387; Gaz. vol. 154; p. 1251.
Filtering apparatus. G. W. Durbrow. No. 966,179; Aug. 2; Sp. p. 726; Gaz. vol. 157; p. 114.
Filtering apparatus for purifying gasolene and other liquid fuels. Z. H. Stamets. No. 972,281; Oct. 11; Sp. p. 1679; Gaz. vol. 159; p. 295.
Filtering apparatus for washing slimes, &c. J. F. Webb. No. 968,720; Aug. 30; Sp. p. 6170; Gaz. vol. 157; p. 1078.
Filtering apparatus, Milk-. J. D. Reymore and R. E. Van Cise. No. 950,211; Feb. 22; Sp. p. 5169; Gaz. vol. 151; p. 907.
Filtering apparatus, Sewage-. B. Wilkie. No. 968,015; Aug. 23; Sp. p. 4626; Gaz. vol. 157; p. 808.
Filtering device. G. W. Durbrow. No. 966,181; Aug. 2; Sp. p. 731; Gaz. vol. 157; p. 115.
Filtering device. R. J. Schultz. No. 970,650; Sept. 20; Sp. p. 3235; Gaz. vol. 158; p. 557.
Filtering elements and filtered liquid, Treating. W. H. Dopp. No. 966,177; Aug. 2; Sp. p. 722; Gaz. vol. 157; p. 114.
Filtering-machine. G. Ridgway. No. 945,193; Jan. 4; Sp. p. 381; Gaz. vol. 150; p. 64.
Filtering mediums and the like, Cleansing. J. Wilson. No. 945,146; Jan. 4; Sp. p. 276; Gaz. vol. 150; p. 48.
Filtering process. G. Moore. No. 955,836; Apr. 19; Sp. p. 4622; Gaz. vol. 153; p. 798.
Filtering, washing, and drying apparatus. J. Bebbington. No. 949,724; Feb. 15; Sp. p. 4036; Gaz. vol. 151; p. 701.
Filtration. E. Burt. No. 961,713; June 14; Sp. p. 3032; Gaz. vol. 155; p. 525.
Filtration system. S. Ouimet. No. 975,450; Nov. 15; Sp. p. 3060; Gaz. vol. 160; p. 523.
Finger-protector. M. L. B. Ward. No. 971,093; Sept 27; Sp. p. 4167; Gaz. vol. 158; p. 735.
Finger-ring. N. W. Moodey. No. 945,107; Jan. 4; Sp. p. 207; Gaz. vol. 150; p. 35.
Fingering device, String-. H. Schlemmer. No. 953,104; Mar. 29; Sp. p. 5437; Gaz. vol. 152; p. 994.
Finishing process. R. T. Todd and R. B. Batty. No. 956,550; May 3; Sp. p. 93; Gaz. vol. 154; p. 17.
Finishing-tool. J. F. Nicholas. No. 973,688; Oct. 25; Sp. p. 4787; Gaz. vol. 159; p. 831.
Finishing-tool. E. Traub. No. 974,932; Nov. 8; Sp. p. 1937; Gaz. vol. 160; p. 320.
Fire-alarm. E. Lamoureux. No. 946,857; Jan. 18; Sp. p. 4139; Gaz. vol. 150; p. 685.
Fire-alarm. J. H. Hayes. No. 955,798; Apr. 19; Sp. p. 4539; Gaz. vol. 153; p. 784.
Fire-alarm. M. V. Crawford. No. 962,552; June 28; Sp. p. 4905; Gaz. vol. 155; p. 859.
Fire-alarm. F. E. Oviedo. No. 967,658; Aug. 16; Sp. p. 3871; Gaz. vol. 157; p. 664.
Fire-alarm. W. C. Matthias. No. 971,684; Oct. 4; Sp. p. 363; Gaz. vol. 159; p. 64.
Fire-alarm. J. E. W. Fogal, A. M. Crichton, and A. C. Mowry. No. 972,840; Oct. 18; Sp. p. 2889; Gaz. vol. 159; p. 514.
Fire-alarm, Automatic. A. W. Stafford. No. 947,423; Jan. 25; Sp. p. 5385; Gaz. vol. 150; p. 902.
Fire-alarm, Automatic. J. Yates. No. 959,828; May 31; Sp. p. 7356; Gaz. vol. 154; p. 1245.
Fire-alarm, Automatic. L. Cain. No. 979,376; Dec. 20; Sp. p. 4225; Gaz. vol. 161; p. 728.
Fire-alarm box. T. Haines. No. 961,440; June 14; Sp. p. 2468; Gaz. vol. 155; p. 434.
Fire-alarm-box keys, Device for holding. F. B. Holbrook. No. 979,856; Dec. 27; Sp. p. 5294; Gaz. vol. 161; p. 916.
Fire-alarm, Electric. E. Mahon. No. 979,977; Dec. 27; Sp. p. 5530; Gaz. vol. 161; p. 955.
Fire-alarm intercommunication system. A. D. Wheeler. No. 952,024; Mar. 15; Sp. p. 3178; Gaz. vol. 152; p. 572.
Fire-alarm signal, Automatic. F. E. Schultz. No. 951,583; Mar. 8; Sp. p. 2274; Gaz. vol. 152; p. 394.
Fire-alarm switch. P. W. Eskridge. No. 972,353; Oct. 11; Sp. p. 1819; Gaz. vol. 159; p. 319.
Fire-alarm system. J. F. Kelly. No. 947,000; Jan. 18; Sp. p. 4451; Gaz. vol. 150; p. 733.
Fire-alarm system. J. H. Garratt and W. J. McGivern. No. 961,853; June 21; Sp. p. 3351; Gaz. vol. 155; p. 595.
Fire-alarm system. R. Couture. No. 962,625; June 28; Sp. p. 5053; Gaz. vol. 155; p. 883.
Fire-alarm system. W. Carroll. No. 964,086; July 12; Sp. p. 2331; Gaz. vol. 156; p. 384.
Fire-alarm system, Automatic. A. Goldstein and H. E. Rice. No. 963,432; July 5; Sp. p. 941; Gaz. vol. 156; p. 141.
Fire-alarm system, Electrical. J. H. Field. No. 976,645; Nov. 22; Sp. p. 5655; Gaz. vol. 160; p. 956.
Fire-alarm systems, Signal-box for. F. S. Bronson. No. 958,719; May 24; Sp. p. 4988; Gaz. vol. 154; p. 844.
Fire-alarm, Thermo-electric. G. Blackhall. No. 954,373; Apr. 5; Sp. p. 1431; Gaz. vol. 153; p. 238.
Fire-alarm trap. J. F. Wilson. No. 949,737; Feb. 15; Sp. p. 4071; Gaz. vol. 151; p. 707.
Fire-bar, Lifting. J. and W. Reagan. No. 964,937; July 19; Sp. p. 4217; Gaz. vol. 156; p. 704.
Fire-boat. C. B. Askew. No. 969,440; Sept. 6; Sp. p. 610; Gaz. vol. 158; p. 97.
Fire-box. J. M. McClellon. No. 964,300; July 12; Sp. p. 2770; Gaz. vol. 156; p. 456.
Fire-box-door closer. R. A. Philbrick. No. 965,009; July 19; Sp. p. 4364; Gaz. vol. 156; p. 727.
Fire-box door with draft device. J. A. Sandy. No. 960,711; June 7; Sp. p. 960; Gaz. vol. 155; p. 159.
Fire-check. A. A. Steward. No. 958,944; May 24; Sp. p. 5508; Gaz. vol. 154; p. 925.
Fire-cracker holder. M. Nielsen. No. 962,972; June 28; Sp. p. 5718; Gaz. vol. 155; p. 1002.
Fire-crackers, Machine for manufacturing. I. M. Bond and T. B. Hall. No. 965,560; July 26; Sp. p. 5553; Gaz. vol. 156; p. 946.
Fire-curtain, Portable. L. L. Goheen. No. 956,335; Apr. 26; Sp. p. 5748; Gaz. vol. 153; p. 1000.
Fire-door opener. E. C. King. No. 973,051; Oct. 18; Sp. p. 3402; Gaz. vol. 159; p. 589.
Fire-engine. H. M. Minnis. No. 976,133; Nov. 15; Sp. p. 4486; Gaz. vol. 160; p. 757.
Fire-engine, Chemical. E. M. E. Hansen. No. 957,054; May 3; Sp. p. 1193; Gaz. vol. 154; p. 189.
Fire-engine, Portable. R. H. Rice. No. 957,903; May 17; Sp. p. 2978; Gaz. vol. 154; p. 538.
Fire-escape. C. W. L. Wartenberg. No. 945,065; Jan. 4; Sp. p. 124; Gaz. vol. 150; p. 21.
Fire-escape. W. C. Baird. No. 946,194; Jan. 11; Sp. p. 2606; Gaz. vol. 150; p. 433.
Fire-escape. C. F. Thuener. No. 946,588; Jan. 18; Sp. p. 3527; Gaz. vol. 150; p. 594.
Fire-escape. I. Deatherage. No. 947,482; Jan. 25; Sp. p. 5547; Gaz. vol. 150; p. 922.
Fire-escape. T. Schulz. No. 950,246; Feb. 22; Sp. p. 5242; Gaz. vol. 151; p. 919.
Fire-escape. J. Luckett. No. 951,823; Mar. 15; Sp. p. 2765; Gaz. vol. 152; p. 506.
Fire-escape. S. Davidson. No. 952,239; Mar. 15; Sp. p. 3581; Gaz. vol. 152; p. 644.
Fire-escape. T. B. Erwin and H. C. Meyer. No. 952,315; Mar. 15; Sp. p. 3739; Gaz. vol. 152; p. 669.
Fire-escape. G. R. Witt. No. 955,243; Apr. 19; Sp. p. 3343; Gaz. vol. 153; p. 596.
Fire-escape. F. Scherrer. No. 956,183; Apr. 26; Sp. p. 5427; Gaz. vol. 153; p. 950.
Fire-escape. M. F. Welch. No. 957,589; May 10; Sp. p. 2311; Gaz. vol. 154; p. 401.
Fire-escape. J. W. Thompson. No. 959,404; May 24; Sp. p. 6433; Gaz. vol. 154; p. 1076.
Fire-escape. A. Brown. No. 960,068; May 31; Sp. p. 7919; Gaz. vol. 154; p. 1329.
Fire-escape. H. L. Cooper. No. 960,510; June 7; Sp. p. 546; Gaz. vol. 155; p. 90.
Fire-escape. H. Johnson. No. 961,299; June 14; Sp. p. 2163; Gaz. vol. 155; p. 387.
Fire-escape. A. O. Müller. No. 961,518; June 14; Sp. p. 2632; Gaz. vol. 155; p. 459.
Fire-escape. M. F. Welch. No. 963,409; July 5; Sp. p. 899; Gaz. vol. 156; p. 132.
Fire-escape. W. J. Huff. No. 966,447; Aug. 9; Sp. p. 1271; Gaz. vol. 157; p. 228.
Fire-escape. M. F. Welch. No. 968,615; Aug 30; Sp. p. 5910; Gaz. vol. 157; p. 1042.
Fire-escape. B. Smith. No. 969,209; Sept. 6; Sp. p. 142; Gaz. vol. 158; p. 23.
Fire-escape. C. B. McKinney. No. 970,534; Sept. 20; Sp. p. 2965; Gaz. vol. 158; p. 517.
Fire-escape. G. H. Johnson. No. 971,276; Sept. 27; Sp. p. 4545; Gaz. vol. 158; p. 795.
Fire-escape. J. Scully. No. 972,576; Oct. 11; Sp. p. 2329; Gaz. vol. 159; p. 399.
Fire-escape. J. H. Hogston. No. 974,381; Nov. 1; Sp. p. 683; Gaz. vol. 160; p. 103.
Fire-escape. M. S. Finkelstein. No. 974,781; Nov. 8; Sp. p. 1594; Gaz. vol. 160; p. 268.
Fire-escape. W. Smith. No. 974,929; Nov. 8; Sp. p. 1931; Gaz. vol. 160; p. 319.
Fire-escape. L. H. Firestone. No. 976,861; Nov. 29; Sp. p. 6123; Gaz. vol. 160; p. 1055.
Fire-escape. W. C. Stuart. No. 979,900; Dec. 27; Sp. p. 5379; Gaz. vol. 161; p. 930.
Fire-escape apparatus. M. Fischer. No. 958,383; May 17; Sp. p. 4335; Gaz. vol. 154; p. 708.
Fire-escape apparatus. N. Bouvier. No. 966,159; Aug. 2; Sp. p. 687; Gaz. vol. 157; p. 107.
Fire-escape, Automatic. A. H. Hartmann. No. 967,518; Aug. 16; Sp. p. 3605; Gaz. vol. 157; p. 619.

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Fire-escape, Automatic. A. W. Faeh. No. 978,571; Dec. 13; Sp. p. 2512; Gaz. vol. 161; p. 428.
Fire-escape door. L. R. Loughborough. No. 974,404; Nov. 1; Sp. p. 728; Gaz. vol. 160; p. 111.
Fire-escape ladder. W. A. Farmer. No. 949,531; Feb. 15; Sp. p. 3670; Gaz. vol. 151; p. 639.
Fire-escape, Life-saving. K. Glawatzky. No. 978,447; Dec. 13; Sp. p. 2220; Gaz. vol. 161; p. 385.
Fire-escape, Portable. E. P. O'Leary. No. 969,559; Sept. 6; Sp. p. 878; Gaz. vol. 158; p. 138.
Fire-escapes, &c., Rope-gripping device for. O. Sorenson. No. 951,748; Mar. 8; Sp. p. 2603; Gaz. vol. 152; p. 450.
Fire-extinguisher. A. Ammentorp. No. 950,778; Mar. 1; Sp. p. 686; Gaz. vol. 152; p. 109.
Fire-extinguisher. M. C. Fairweather and L. W. Theis. No. 952,613; Mar. 22; Sp. p. 4381; Gaz. vol. 152; p. 800.
Fire-extinguisher. T. F. Handly. No. 954,184; Apr. 5; Sp. p. 1034; Gaz. vol. 153; p. 175.
Fire-extinguisher. G. C. Magill. No. 954,196; Apr. 5; Sp. p. 1058; Gaz. vol. 153; p. 180.
Fire-extinguisher. T. F. Handly. No. 954,281; Apr. 5; Sp. p. 1237; Gaz. vol. 153; p. 206.
Fire-extinguisher. T. F. Handly. No. 954,282; Apr. 5; Sp. p. 1242; Gaz. vol. 153; p. 207.
Fire-extinguisher. T. P. McCall. No. 964,299; July 12; Sp. p. 2768; Gaz. vol. 156; p. 456.
Fire-extinguisher. A. F. Spawn. No. 965,761; July 26; Sp. p. 5972; Gaz. vol. 156; p. 1015.
Fire-extinguisher. C. Brent. No. 968,736; Aug. 30; Sp. p. 6205; Gaz. vol. 157; p. 1084.
Fire-extinguisher, Air-operated. P. L. Wilbur. No. 951,625; Mar. 8; Sp. p. 2358; Gaz. vol. 152; p. 408.
Fire-extinguisher, Automatic. M. Andrews. No. 971,814; Oct. 4; Sp. p. 631; Gaz. vol. 159; p. 111.
Fire-extinguisher, Automatic. N. Finical. No. 973,185; Oct. 18; Sp. p. 3725; Gaz. vol. 159; p. 636.
Fire-extinguisher, Chemical. F. L. Cooke. No. 973,857; Oct. 25; Sp. p. 5123; Gaz. vol. 159; p. 890.
Fire-extinguisher, Chemical. W. S. Tiffany. No. 974,208; Nov. 1; Sp. p. 238; Gaz. vol. 160; p. 39.
Fire-extinguisher nozzle. A. C. Aszman. No. 973,333; Oct. 18; Sp. p. 4015; Gaz. vol. 159; p. 687.
Fire-extinguisher system. H. D. and W. B. Emmons. No. 976,448; Nov. 22; Sp. p. 5243; Gaz. vol. 160; p. 890.
Fire-extinguisher system, Automatic. T. J. Stankiewicz. No. 971,089; Sept. 27; Sp. p. 4159; Gaz. vol. 158; p. 734.
Fire-extinguisher systems, Automatically-released alarm-box for. J. G. Nolen. No. 946,257; Jan. 11; Sp. p. 2744; Gaz. vol. 150; p. 456.
Fire-extinguishers, Chemical-tank for. J. T. Lally. No. 971,386; Sept. 27; Sp. p. 4755; Gaz. vol. 158; p. 831.
Fire-extinguishing apparatus. J. W. Babb. No. 966,985; Aug. 9; Sp. p. 2485; Gaz. vol. 157; p. 409.
Fire-extinguishing apparatus. H. Budd. No. 976,251; Nov. 22; Sp. p. 4805; Gaz. vol. 160; p. 821.
Fire-extinguishing apparatus, Pressure-compensating device for the air inclosed in. K. Schmidt. No. 945,288; Jan. 4; Sp. p. 585; Gaz. vol. 150; p. 96.
Fire-extinguishing compound. A. Sala. No. 967,246; Aug. 16; Sp. p. 3039; Gaz. vol. 157; p. 526.
Fire-fighting apparatus. F. Morton. No. 966,346; Aug. 2; Sp. p. 1036; Gaz. vol. 157; p. 167.
Fire-governor, Automatic. A. W. Arnold. No. 970,599; Sept. 20; Sp. p. 3096; Gaz. vol. 158; p. 540.
Fire-holes, Closing device for cellar. W. C. Shepard. No. 958,550; May 17; Sp. p. 4659; Gaz. vol. 154; p. 765.
Fire-hose, Antidrip device for. H. F. Beers and H. C. Bumpus. No. 956,562; May 3; Sp. p. 115; Gaz. vol. 154; p. 21.
Fire-hose carrier. H. L. Jenkins. No. 954,807; Apr. 12; Sp. p. 2434; Gaz. vol. 153; p. 416.
Fire-hose carrier and spanner. R. Lovell. No. 967,796; Aug. 16; Sp. p. 4152; Gaz. vol. 157; p. 711.
Fire-hose guide-rack. S. B. Willis. No. 961,054; June 7; Sp. p. 1635; Gaz. vol. 155; p. 274.
Fire-hydrant. G. A. Owen and G. A. Bates. No. 950,300; Feb. 22; Sp. p. 5342; Gaz. vol. 151; p. 938.
Fire-hydrant. H. M. Lofton. No. 978,385; Dec. 13; Sp. p. 2097; Gaz. vol. 161; p. 365.
Fire-hydrant coupling. E. W. Purves. No. 959,258; May 24; Sp. p. 6157; Gaz. vol. 154; p. 1029.
Fire-hydrants, Discharge-nozzle and independent cut-off valve for. A. L. Bixel. No. 960,620; June 7; Sp. p. 787; Gaz. vol. 155; p. 128.
Fire-kindler. F. Jasmer and J. Gunlach. No. 965,582; July 26; Sp. p. 5601; Gaz. vol. 156; p. 953.
Fire-kindler. E. J. Robinson. No. 967,242; Aug. 16; Sp. p. 3029; Gaz. vol. 157; p. 524.
Fire-kindler. S. Ishii. No. 975,868; Nov. 15; Sp. p. 3947; Gaz. vol. 160; p. 665.
Fire-kindling compound. J. J. Gohl. No. 947,101; Jan. 18; Sp. p. 4643; Gaz. vol. 150; p. 766.
Fire-lighters, Device for the manufacture of bundled. W. B. Pinching. No. 964,548; July 19; Sp. p. 3317; Gaz. vol. 156; p. 568.
Fire plate or cover, Foraminous. P. J. Mooney. No. 946,701; Jan. 18; Sp. p. 3767; Gaz. vol. 150; p. 630.
Fire-plug, Drum. G. E. Hargreaves. No. 974,265; Nov. 1; Sp. p. 415; Gaz. vol. 160; p. 61.
Fire-pot. I. G. Huston. No. 969,373; Sept. 6; Sp. p. 485; Gaz. vol. 158; p. 77.
Fire-protector for oil-tanks, Automatic. W. J. Donnell. No. 954,265; Apr. 5; Sp. p. 1204; Gaz. vol. 153; p. 201.
Fire-pump governor. N. C. Locke. No. 970,630; Sept. 20; Sp. p. 3203; Gaz. vol. 158; p. 551.
Fire-resistant shutter. J. G. Wilson. No. 951,867; Mar. 15; Sp. p. 2862; Gaz. vol. 152; p. 521.
Fire-resistant shutter. J. G. Wilson. No. 951,868; Mar. 15; Sp. p. 2864; Gaz. vol. 152; p. 521.
Fire-resisting shutter. L. G. Wilson and F. McManus. No. 972,426; Oct. 11; Sp. p. 1971; Gaz. vol. 159; p. 346.
Fire-resisting shutter and slat therefor, Flexible. E. H. McCloud. No. 978,770; Dec. 13; Sp. p. 2922; Gaz. vol. 161; p. 494.
Fire-resisting shutter and slat therefor, Flexible. E. H. McCloud. No. 978,771; Dec. 13; Sp. p. 2923; Gaz. vol. 161; p. 494.
Fire-screen. J. B. Pafford. No. 972,636; Oct. 11; Sp. p. 2468; Gaz. vol. 159; p. 420.
Fire-stop for corrugated-metal shutters. J. G. Wilson. No. 968,623; Aug. 30; Sp. p. 5929; Gaz. vol. 157; p. 1044.
Fires in chimneys, Apparatus for preventing. A. de Finance. No. 946,874; Jan. 18; Sp. p. 4197; Gaz. vol. 150; p. 691.
Firing indicator and recorder. A. W. K. Billings. No. 974,017; Oct. 25; Sp. p. 5462; Gaz. vol. 159; p. 947.
Firing-timing device. E. G. Affleck. No. 977,254; Nov. 29; Sp. p. 7009; Gaz. vol. 160; p. 1192.
Firearm. A. Fyrberg. No. 945,320; Jan. 4; Sp. p. 687; Gaz. vol. 150; p. 107.
Firearm. W. H. Gates. No. 946,214; Jan. 11; Sp. p. 2642; Gaz. vol. 150; p. 440.
Firearm. T. Consentino. No. 947,481; Jan. 25; Sp. p. 5543; Gaz. vol. 150; p. 921.
Firearm. S. Paulson. No. 950,577; Mar. 1; Sp. p. 241; Gaz. vol. 152; p. 40.
Firearm. G. S. Lewis. No. 952,206; Mar. 15; Sp. p. 3515; Gaz. vol. 152; p. 632.
Firearm. H. M. Kolb. No. 954,191; Apr. 5; Sp. p. 1050; Gaz. vol. 153; p. 178.
Firearm. M. F. Smith. No. 954,654; Apr. 12; Sp. p. 2059; Gaz. vol. 153; p. 362.
Firearm. A. H. Stockwell. No. 954,657; Apr. 12; Sp. p. 2068; Gaz. vol. 153; p. 363.
Firearm. C. A. Young. No. 954,663; Apr. 12; Sp. p. 2082; Gaz. vol. 153; p. 365.
Firearm. J. C. White. No. 954,904; Apr. 12; Sp. p. 2658; Gaz. vol. 153; p. 450.
Firearm. C. A. Young. No. 955,490; Apr. 19; Sp. p. 3864; Gaz. vol. 153; p. 680.
Firearm. W. H. Snyder. No. 958,332; May 17; Sp. p. 4234; Gaz. vol. 154; p. 691.
Firearm. T. C. Johnson. No. 959,016; May 24; Sp. p. 5643; Gaz. vol. 154; p. 949.
Firearm. H. M. Kolb. No. 959,229; May 24; Sp. p. 6096; Gaz. vol. 154; p. 1019.
Firearm. T. C. Johnson. No. 959,942; May 31; Sp. p. 7619; Gaz. vol. 154; p. 1285.
Firearm. R. E. Jeffery. No. 962,223; June 21; Sp. p. 4153; Gaz. vol. 155; p. 721.
Firearm. T. C. Johnson. No. 962,764; June 28; Sp. p. 5337; Gaz. vol. 155; p. 933.
Firearm. J. D. Pedersen. No. 963,171; July 5; Sp. p. 362; Gaz. vol. 156; p. 52.
Firearm. T. C. Johnson. No. 963,444; July 5; Sp. p. 966; Gaz. vol. 156; p. 145.
Firearm. M. Schrader. No. 965,661; July 26; Sp. p. 5761; Gaz. vol. 156; p. 980.
Firearm. F. M. Slawter. No. 966,482; Aug. 9; Sp. p. 1356; Gaz. vol. 157; p. 240.
Firearm. A. C. Wright. No. 968,019; Aug. 23; Sp. p. 4634; Gaz. vol. 157; p. 809.
Firearm. A. L. Audette. No. 968,228; Aug. 23; Sp. p. 5106; Gaz. vol. 157; p. 880.
Firearm. M. Schrader. No. 968,989; Aug. 30; Sp. p. 6705; Gaz. vol. 157; p. 1167.
Firearm. L. M. Silva. No. 969,500; Sept. 6; Sp. p. 740; Gaz. vol. 158; p. 117.
Firearm. M. C. Lisle. No. 970,248; Sept. 13; Sp. p. 2378; Gaz. vol. 158; p. 401.
Firearm. C. G. O. Grevillius. No. 972,364; Oct. 11; Sp. p. 1843; Gaz. vol. 159; p. 323.
Firearm. A. I. Risser. No. 975,720; Nov. 15; Sp. p. 3645; Gaz. vol. 160; p. 614.
Firearm. J. H. Wesson. No. 978,415; Dec. 13; Sp. p. 2159; Gaz. vol. 161; p. 375.
Firearm, Automatic. S. Paulson. No. 950,576; Mar. 1; Sp. p. 238; Gaz. vol. 152; p. 39.
Firearm, Automatic. L. Schmeisser. No. 956,430; Apr. 26; Sp. p. 5937; Gaz. vol. 153; p. 1033.
Firearm, Automatic. L. Schmeisser. No. 956,431; Apr. 26; Sp. p. 5942; Gaz. vol. 153; p. 1033.
Firearm, Automatic. C. H. A. F. L. Ross. No. 958,545; May 17; Sp. p. 4645; Gaz. vol. 154; p. 763.
Firearm, Automatic. R. Frommer. No. 959,002; May 24; Sp. p. 5621; Gaz. vol. 154; p. 944.
Firearm, Automatic. R. Frommer. No. 960,880; June 7; Sp. p. 1291; Gaz. vol. 155; p. 216.
Firearm, Automatic. W. H. Gates. No. 962,137; June 21; Sp. p. 3981; Gaz. vol. 155; p. 692.

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Firearm, Automatic. H. Sunngård. No. 972,087; Oct. 4; Sp. p. 1246; Gaz. vol. 159; p. 211.
Firearm, Automatic. K. Krnka. No. 975,256; Nov. 8; Sp. p. 2665; Gaz. vol. 160; p. 431.
Firearm, Automatic. C. P. Clément. No. 976,122; Nov. 15; Sp. p. 4440; Gaz. vol. 160; p. 752.
Firearm, Automatic repeating. O. H. J. Krag. No. 954,441; Apr. 12; Sp. p. 1568; Gaz. vol. 153; p. 288.
Firearm breech mechanism. J. P. Hayes. No. 973,655; Oct. 25; Sp. p. 4716; Gaz. vol. 159; p. 820.
Firearm cleaning-rod. J. H. Blair. No. 962,883; June 28; Sp. p. 5570; Gaz. vol. 155; p. 974.
Firearm for hand and automatic loading. R. Frommer. No. 952,896; Mar. 22; Sp. p. 4970; Gaz. vol. 152; p. 895.
Firearm guard or deflector. H. B. Febiger. No. 946,210; Jan. 11; Sp. p. 2636; Gaz. vol. 150; p. 438.
Firearm-locking device. R. Frommer. No. 949,467; Feb. 15; Sp. p. 3542; Gaz. vol. 151; p. 618.
Firearm-magazine. C. H. A. F. L. Ross. No. 975,287; Nov. 8; Sp. p. 2724; Gaz. vol. 160; p. 441.
Firearm, Magazine-. S. D. W. Fix. No. 977,859; Dec. 6; Sp. p. 957; Gaz. vol. 161; p. 151.
Firearm-magazine fastener. J. D. Pedersen. No. 951,657; Mar. 8; Sp. p. 2429; Gaz. vol. 152; p. 420.
Firearm-muffler. A. C. Shipley. No. 971,083; Sept. 27; Sp. p. 4150; Gaz. vol. 158; p. 732.
Firearm or rifle, Repeating. N. Giusto and C. De-Felice. No. 964,419; July 12; Sp. p. 2990; Gaz. vol. 156; p. 493.
Firearm, Recoiling-barrel. T. C. Johnson. No. 945,328; Jan. 4; Sp. p. 711; Gaz. vol. 150; p. 109.
Firearm, Repeating. T. Montmeny. No. 947,307; Jan. 25; Sp. p. 5114; Gaz. vol. 150; p. 863.
Firearm, Repeating. E. E. Redfield. No. 953,291; Mar. 29; Sp. p. 5831; Gaz. vol. 152; p. 1054.
Firearm, Repeating. E. E. Redfield. No. 953,292; Mar. 29; Sp. p. 5834; Gaz. vol. 152; p. 1054.
Firearm, Repeating. T. C. Johnson. No. 958,407; May 17; Sp. p. 4379; Gaz. vol. 154; p. 715.
Firearm, Repeating. T. C. Johnson. No. 960,646; June 7; Sp. p. 635; Gaz. vol. 155; p. 137.
Firearm safety device. J. M. Browning. No. 947,478; Jan. 25; Sp. p. 5535; Gaz. vol. 150; p. 921.
Firearm-sight. W. Bernard. No. 945,366; Jan. 4; Sp. p. 788; Gaz. vol. 150; p. 121.
Firearm-sight. G. R. Henkel. No. 946,357; Jan. 11; Sp. p. 2953; Gaz. vol. 150; p. 490.
Firearm-sight. E. R. Tufts. No. 954,064; Apr. 5; Sp. p. 767; Gaz. vol. 153; p. 133.
Firearm-sight. C. Tyler. No. 960,739; June 7; Sp. p. 1011; Gaz. vol. 155; p. 170.
Firearm-sight. A Swasey. No. 964,709; July 19; Sp. p. 3758; Gaz. vol. 156; p. 625.
Firearm-sight. H. L. Lovejoy. No. 971,287; Sept. 27; Sp. p. 4563; Gaz. vol. 158; p. 798.
Firearm-silencer. R. A. Moore. No. 956,717; May 3; Sp. p. 467; Gaz. vol. 154; p. 75.
Firearm, Silent. H. P. Maxim. No. 958,934; May 24; Sp. p. 5492; Gaz. vol. 154; p. 921.
Firearm, Silent. H. P. Maxim. No. 958,935; May 24; Sp. p. 5495; Gaz. vol. 154; p. 922.
Firearm single-trigger mechanism. E. F. Flues. No. 980,174; Dec. 27; Sp. p. 5995; Gaz. vol. 161; p. 1021.
Firearm, Take-down. W. Bennett. No. 961,576; June 14; Sp. p. 2761; Gaz. vol. 155; p. 478.
Firearm, Take-down. W. Bennett. No. 963,680; July 5; Sp. p. 1428; Gaz. vol. 156; p. 224.
Firearm, Tubular magazine-. W. Bennett. No. 964,142; July 12; Sp. p. 2449; Gaz. vol. 156; p. 402.
Firearms, Action for. T. B. Goyette. No. 972,076; Oct. 4; Sp. p. 1224; Gaz. vol. 159; p. 207.
Firearms, Breech-closing mechanism for automatic. C. L. Ross. No. 954,543; Apr. 12; Sp. p. 1806; Gaz. vol. 153; p. 324.
Firearms, Cartridge-stop for magazine-. J. D. Pedersen. No. 953,797; Apr. 5; Sp. p. 229; Gaz. vol. 153; p. 41.
Firearms, Firing mechanism for. A. Müller. No. 956,593; May 3; Sp. p. 186; Gaz. vol. 154; p. 32.
Firearms, Firing-pin for hammers for. H. M. Kolb. No. 954,190; Apr. 5; Sp. p. 1048; Gaz. vol. 153; p. 177.
Firearms, Folding stock for. W. L. Marble. No. 961,511; June 14; Sp. p. 2621; Gaz. vol. 155; p. 457.
Firearms, Greasing device for the ammunition of. R. Frommer. No. 974,784; Nov. 8; Sp. p. 1602; Gaz. vol. 160; p. 269.
Firearms, Guard or deflector for side-ejection shoulder-. H. B. Febiger. No. 968,139; Aug. 23; Sp. p. 4897; Gaz. vol. 157; p. 850.
Firearms, Offset-adapter for telescopes for. W. Bennett. No. 958,989; May 24; Sp. p. 5594; Gaz. vol. 154; p. 940.
Firearms, Single-trigger mechanism for. W. H. Price. No. 956,825; May 3; Sp. p. 712; Gaz. vol. 154; p. 112.
Firearms, Sliding operating-handle for. F. F. Burton. No. 962,889; June 28; Sp. p. 5583; Gaz. vol. 155; p. 976.
Firearms, Telescope-sight for. F. L. Smith. No. 966,254; Aug. 2; Sp. p. 879; Gaz. vol. 157; p. 140.
Firearms, Telescope-sight mount for. F. F. Burton. No. 960,813; June 7; Sp. p. 1165; Gaz. vol. 155; p. 194.
Fireplace-fender. S. B. Hays. No. 977,388; Nov. 29; Sp. p. 3789; Gaz. vol. 160; p. 1238.
Fireplace fender and screen. C. M. Yarborough. No. 976,767; Nov. 22; Sp. p. 5908; Gaz. vol. 160; p. 997.
Fireplace fireback and andirons. C. H. Parrish. No. 979,195; Dec. 20; Sp. p. 3866; Gaz. vol. 161; p. 669.
Fireplace-furnace. A. J. Matter. No. 976,819; Nov. 22; Sp. p. 6005; Gaz. vol. 160; p. 1015.
Fireproof arch. E. F. Fitzpatrick. No. 948,215; Feb. 1; Sp. p. 892; Gaz. vol. 151; p. 146.
Fireproof building construction. H. L. Hinton. No. 971,750; Oct. 4; Sp. p. 506; Gaz. vol. 159; p. 88.
Fireproof building, Portable. C. Q. Lucke. No. 950,140; Feb. 22; Sp. p. 5012; Gaz. vol. 151; p. 881.
Fireproof buildings, Partition construction for. H. Hill. No. 975,426; Nov. 15; Sp. p. 3011; Gaz. vol. 160; p. 514.
Fireproof column. J. J. Tresidder. No. 960,125; May 31; Sp. p. 8023; Gaz. vol. 154; p. 1347.
Fireproof construction. A. Priddle. No. 960,197; May 31; Sp. p. 8160; Gaz. vol. 154; p. 1373.
Fireproof constructions, Clip and studding for. J. F. Makowski. No. 975,368; Nov. 8; Sp. p. 2892; Gaz. vol. 160; p. 467.
Fireproof constructions, Filling-block for. H. Ericsson. No. 974,868; Nov. 8; Sp. p. 1793; Gaz. vol. 160; p. 297.
Fireproof door and the like. J. R. Hussey. No. 948,450; Feb. 8; Sp. p. 1407; Gaz. vol. 151; p. 251.
Fireproof door, Hollow. H. P. A. A. Eichmann. No. 972,102; Oct. 4; Sp. p. 1270; Gaz. vol. 159; p. 215.
Fireproof door or shutter. E. H. McCloud. No. 959,576; May 31; Sp. p. 6823; Gaz. vol. 154; p. 1161.
Fireproof door or shutter. E. H. McCloud. No. 967,543; Aug. 16; Sp. p. 3647; Gaz. vol. 157; p. 627.
Fireproof floor construction. H. L. Hinton. No. 970,500; Sept. 20; Sp. p. 2888; Gaz. vol. 158; p. 505.
Fireproof jewel-case. L. Waldeck. No. 950,776; Mar. 1; Sp. p. 683; Gaz. vol. 152; p. 109.
Fireproof magazine for film-reels. N. Power. No. 959,601; May 31; Sp. p. 6871; Gaz. vol. 154; p. 1169.
Fireproof partitions, Manufacture of. D. Mowat. No. 958,419; May 17; Sp. p. 4402; Gaz. vol. 154; p. 720.
Fireproof shutter mechanism. F. McManus. No. 948,239; Feb. 1; Sp. p. 938; Gaz. vol. 151; p. 154.
Fireproof shutters, Baffle for. J. G. Wilson. No. 957,923; May 17; Sp. p. 3038; Gaz. vol. 154; p. 545.
Fireproof stair. H. F. Edwards and W. Dowling. No. 964,222; July 12; Sp. p. 2600; Gaz. vol. 156; p. 428.
Fireproof structures, Temporary support for the filling of. R. B. Higgins. No. 953,014; Mar. 22; Sp. p. 5220; Gaz. vol. 152; p. 935.
Fireproof wall. D. Dunlevy. No. 951,681; Mar. 8; Sp. p. 2470; Gaz. vol. 152; p. 428.
Fireproof window construction. W. J. Larkin. No. 950,233; Feb. 22; Sp. p. 5219; Gaz. vol. 151; p. 915.
Fireproof window construction. W. Schmidt. No. 966,364; Aug. 2; Sp. p. 1082; Gaz. vol. 157; p. 174.
Fireproof window-frame. C. A. McGinnis. No. 961,729; June 14; Sp. p. 3056; Gaz. vol. 155; p. 530.
Fireproofing compound. S. Gousseff. No. 955,262; Apr. 19; Sp. p. 3383; Gaz. vol. 153; p. 602.
Fish and game hook. S. B. Lee. No. 958,142; May 17; Sp. p. 3694; Gaz. vol. 154; p. 624.
Fish-bucket, Combination. N. D. Fly. No. 963,285; July 5; Sp. p. 656; Gaz. vol. 156; p. 92.
Fish-cage. J. Garrard. No. 980,148; Dec. 27; Sp. p. 5927; Gaz. vol. 161; p. 1012.
Fish-catching device, Automatic. F. Becker and J. E. Poggensee. No. 975,822; Nov. 15; Sp. p. 3851; Gaz. vol. 160; p. 649.
Fish, &c., cutting machine. W. B. Phinney. No. 964,881; July 19; Sp. p. 4111; Gaz. vol. 156; p. 684.
Fish, &c., Device for opening and holding the mouths of. M. Leefson. No. 974,500; Nov. 1; Sp. p. 977; Gaz. vol. 160; p. 145.
Fish-dredge. H. H. Thompson. No. 953,069; Mar. 29; Sp. p. 5345; Gaz. vol. 152; p. 983.
Fish-dressing machine. E. A. Smith. No. 979,103; Dec. 20; Sp. p. 3653; Gaz. vol. 161; p. 635.
Fish-driving device. C. K. Freer. No. 978,872; Dec. 20; Sp. p. 3115; Gaz. vol. 161; p. 553.
Fish-flesh, Treating. K. Schwickerath. No. 954,050; Apr. 5; Sp. p. 735; Gaz. vol. 153; p. 129.
Fish-hook. J. R. Sjolander. No. 954,352; Apr. 5; Sp. p. 1394; Gaz. vol. 153; p. 231.
Fish-hook. M. B. Eckardt. No. 954,788; Apr. 12; Sp. p. 2371; Gaz. vol. 153; p. 409.
Fish-hook. E. L. Roberson. No. 956,176; Apr. 26; Sp. p. 5396; Gaz. vol. 153; p. 947.
Fish-hook. A. Paysen. No. 959,587; May 31; Sp. p. 6845; Gaz. vol. 154; p. 1164.
Fish-hook. P. Reither. No. 961,259; June 14; Sp. p. 2064; Gaz. vol. 155; p. 371.
Fish-hook. A. Aagaard. No. 973,246; Oct. 18; Sp. p. 3837; Gaz. vol. 159; p. 656.
Fish-hook. C. F. Cooper. No. 973,479; Oct. 25; Sp. p. 4332; Gaz. vol. 159; p. 759.
Fish-hook. J. Y. Payton. No. 975,993; Nov. 15; Sp. p. 4181; Gaz. vol. 160; p. 708.
Fish-hook. H. C. Schield. No. 979,891; Dec. 27; Sp. p. 5361; Gaz. vol. 161; p. 927.
Fish-hook, Automatic. J. J. Lisch. No. 973,119; Oct. 18; Sp. p. 3534; Gaz. vol. 159; p. 611.
Fish-hook, Concealed. A. B. Hanel. No. 945,091; Jan. 4; Sp. p. 179; Gaz. vol. 150; p. 30.

Fish hook, Shell-. J. F. Boepple. No. 975,927; Nov. 15; Sp. p. 4066; Gaz. vol. 160; p. 685.
Fish-hook, sinker, and line-fastener, Combined. F. Harkins. No. 952,615; Mar. 22; Sp. p. 4383; Gaz. vol. 152; p. 800.
Fish-net. D. P. Gilstrap. No. 957,766; May 10; Sp. p. 2686; Gaz. vol. 154; p. 462.
Fish, Packing. O. Andrews. No. 978,685; Dec. 13; Sp. p. 2745; Gaz. vol. 161; p. 468.
Fish-plate, Bonding. C. A. Huse and J. L. Miller. No. 979,860; Dec. 27; Sp. p. 5302; Gaz. vol. 161; p. 917.
Fish-screen. W. B. Erekson. No. 951,635; Mar. 8; Sp. p. 2380; Gaz. vol. 152; p. 412.
Fish-screen and sluice-box. A. J. Collar. No. 971,492; Sept. 27; Sp. p. 4939; Gaz. vol. 158; p. 865.
Fish-spear. J. J. Bjornseth. No. 964,375; July 12; Sp. p. 2903; Gaz. vol. 156; p. 479.
Fish-trap. J. P. Cleary. No. 945,840; Jan. 11; Sp. p. 1873; Gaz. vol. 150; p. 311.
Fish-trap. C. F. Pike. No. 972,232; Oct. 11; Sp. p. 1585; Gaz. vol. 159; p. 278.
Fish-trap, Floating. N. L. Moen. No. 969,970; Sept. 13; Sp. p. 1793; Gaz. vol. 158; p. 304.
Fish trap, Shell-. C. H. Van Keuren. No. 973,594; Oct. 25; Sp. p. 4570; Gaz. vol. 159; p. 797.
Fisherman's needle. W. J. May. No. 954,319; Apr. 5; Sp. p. 1330; Gaz. vol. 153; p. 219.
Fishing apparatus. C. G. Jorgensen. No. 952,812; Mar. 22; Sp. p. 4825; Gaz. vol. 152; p. 868.
Fishing apparatus. H. A. Gelsinger. No. 967,897; Aug. 23; Sp. p. 4358; Gaz. vol. 157; p. 768.
Fishing apparatus, Container for. J. M. Ellsworth. No. 952,314; Mar. 15; Sp. p. 3737; Gaz. vol. 152; p. 669.
Fishing appliance. H. Butler. No. 962,309; June 21; Sp. p. 4345; Gaz. vol. 155; p. 750.
Fishing appliance. C. E. Schindler. No. 963,654; July 5; Sp. p. 1383; Gaz. vol. 156; p. 215.
Fishing-gaff. W. E. Bettis. No. 949,750; Feb. 22; Sp. p. 4117; Gaz. vol. 151; p. 745.
Fishing-hook keeper, Snood-. C. G. Shannon. No. 966,609; Aug. 9; Sp. p. 1662; Gaz. vol. 157; p. 284.
Fishing-line-drying reel. F. H. Darrow. No. 967,734; Aug. 16; Sp. p. 4035; Gaz. vol. 157; p. 691.
Fishing-line reel and holder. W. F. Simons. No. 955,366; Apr. 19; Sp. p. 3607; Gaz. vol. 153; p. 637.
Fishing-net. C. H. Kahrs. No. 972,383; Oct. 11; Sp. p. 1878; Gaz. vol. 159; p. 329.
Fishing-reel. J. H. Scotchmer. No. 948,026; Feb. 1; Sp. p. 512; Gaz. vol. 151; p. 83.
Fishing-reel. J. W. Diamond. No. 952,883; Mar. 22; Sp. p. 4956; Gaz. vol. 152; p. 892.
Fishing-reel. W. Shakespeare, Jr., and S. G. Russell. No. 959,623; May 31; Sp. p. 6911; Gaz. vol. 154; p. 1176.
Fishing-reel. A. Wollensak. No. 969,235; Sept. 6; Sp. p. 194; Gaz. vol. 158; p. 32.
Fishing-reel. P. F. Wadham. No. 975,587; Nov. 15; Sp. p. 3364; Gaz. vol. 160; p. 571.
Fishing-reel. W. F. Stockford. No. 975,653; Nov. 15; Sp. p. 3511; Gaz. vol. 160; p. 593.
Fishing-rod. T. F. Judge. No. 967,642; Aug. 16; Sp. p. 3841; Gaz. vol. 157; p. 659.
Fishing rod and reel, Combined. O. M. Scott. No. 970,356; Sept. 13; Sp. p. 2579; Gaz. vol. 158; p. 436.
Fishing-rod grip. L. C. Coller. No. 965,989; Aug. 2; Sp. p. 308; Gaz. vol. 157; p. 51.
Fishing-rod holder. R. C. and C. Piscator. No. 977,835; Dec. 6; Sp. p. 903; Gaz. vol. 161; p. 143.
Fishing-rod line-guide. W. Shakespeare, Jr. No. 958,775; May 24; Sp. p. 5120; Gaz. vol. 154; p. 865.
Fishing-rod reel-clamp. B. O. Bush. No. 950,656; Mar. 1; Sp. p. 416; Gaz. vol. 152; p. 67.
Fishing-rod reel-holder. F. H. Haskell. No. 951,731; Mar. 8; Sp. p. 2559; Gaz. vol. 152; p. 444.
Fishing-rod support. T. M. Lynch. No. 965,826; July 26; Sp. p. 6118; Gaz. vol. 156; p. 1037.
Fishing-rods, Means for clamping reels on. F. F. Becraft. No. 953,775; Apr. 5; Sp. p. 184; Gaz. vol. 153; p. 34.
Fishing-signal. J. L. Dibbles. No. 962,420; June 28; Sp. p. 4602; Gaz. vol. 155; p. 812.
Fishing, Spinner for. F. and H. Lee. No. 968,961; Aug. 30; Sp. p. 6650; Gaz. vol. 157; p. 1158.
Fishing-tackle. C. L. Desmond. No. 953,125; Mar. 29; Sp. p. 5484; Gaz. vol. 152; p. 1001.
Fishing-tackle. J. M. Curtiss. No. 958,233; May 17; Sp. p. 3873; Gaz. vol. 154; p. 654.
Fishing-tackle. T. Pedersen. No. 967,660; Aug. 16; Sp. p. 3874; Gaz. vol. 157; p. 665.
Fishing-tool, Electric. H. Eastwood. No. 974,760; Nov. 1; Sp. p. 1544; Gaz. vol. 160; p. 237.
Fishpole-handle and weighing-scale, Combined. E. J. Weldon. No. 952,552; Mar. 22; Sp. p. 4242; Gaz. vol. 152; p. 778.
Fixed point or center on plane surfaces, Device for temporarily maintaining a. J. W. Braid. No. 953,407; Mar. 29; Sp. p. 6094; Gaz. vol. 152; p. 1095.
Fixture. P. Burger. No. 978,556; Dec. 13; Sp. p. 2455; Gaz. vol. 161; p. 423.
Flag-holder. G. W. Blank. No. 975,114; Nov. 8; Sp. p. 2351; Gaz. vol. 160; p. 382.
Flagpoles, Safety appliance for scaling. C. E. Kirby. No. 964,975; July 19; Sp. p. 4294; Gaz. vol. 156; p. 716.
Flagstaff. J. K. Moore. No. 952,045; Mar. 15; Sp. p. 3220; Gaz. vol. 152; p. 579.
Flagstaff. M. Hendricks and J. S. Burnap. No. 957,606; May 10; Sp. p. 2344; Gaz. vol. 154; p. 408.
Flagstaff. W. E. Lombard. No. 964,035; July 12; Sp. p. 2222; Gaz. vol. 156; p. 366.
Flagstaff. E. S. Mowry. No. 968,067; Aug. 23; Sp. p. 4747; Gaz. vol. 157; p. 826.
Flange, Removable. W. F. Cush. No. 976,440; Nov. 22; Sp. p. 5225; Gaz. vol. 160; p. 887.
Flange sections, Manufacture of deep-. G. H. Everson. No. 950,280; Feb. 22; Sp. p. 5311; Gaz. vol. 151; p. 931.
Flanges, Device for setting and removing. R. Johnson. No. 968,161; Aug. 23; Sp. p. 4969; Gaz. vol. 157; p. 857.
Flanges on demountable rims, Means for locking. A. Dow. No. 959,426; May 24; Sp. p. 6468; Gaz. vol. 154; p. 1083.
Flanges on demountable rims, Means for locking detachable. A. Dow. No. 967,115; Aug. 9; Sp. p. 2774; Gaz. vol. 157; p. 454.
Flanged fitting end. E. F. Osborne. No. 977,032; Nov. 29; Sp. p. 6530; Gaz. vol. 160; p. 1115.
Flanging-machine, Automatic. J. E. Graybill. No. 959,930; May 31; Sp. p. 7579; Gaz. vol. 154; p. 1280.
Flanging plates, Method of and machine for. W. H. Morgan. No. 974,173; Nov. 1; Sp. p. 140; Gaz. vol. 160; p. 26.
Flanging-press. H. W. Jacobs. No. 972,195; Oct. 11; Sp. p. 1489; Gaz. vol. 159; p. 265.
Flash-back-stop tester. D. O'Keefe. No. 947,396; Jan. 25; Sp. p. 5317; Gaz. vol. 150; p. 894.
Flash-light. H. A. Whitfield. No. 952,394; Mar. 15; Sp. p. 3885; Gaz. vol. 152; p. 695.
Flash-light apparatus. W. T. Barnum. No. 956,267; Apr. 26; Sp. p. 5604; Gaz. vol. 153; p. 977.
Flash-light apparatus. D. C. Shoberg. No. 970,358; Sept. 13; Sp. p. 2584; Gaz. vol. 158; p. 436.
Flash-light apparatus and cartridge therefor. F. C. Schofield. No. 946,849; Jan. 18; Sp. p. 4122; Gaz. vol. 150; p. 682.
Flash-light device. A. Robbins. No. 949,198; Feb. 15; Sp. p. 2975; Gaz. vol. 151; p. 527.
Flashing. I. R. Taylor. No. 952,549; Mar. 22; Sp. p. 4237; Gaz. vol. 152; p. 777.
Flashboard. H. L. Coburn. No. 954,257; Apr. 5; Sp. p. 1189; Gaz. vol. 153; p. 199.
Flask: *See* Dental flask; Dentist's flask; Field or hunting flask; Molder's flask; Molding-flask; Pipe-molding flask; Sand-mold flask.
Flask. W. C. Bogenschutz. No. 956,621; May 3; Sp. p. 243; Gaz. vol. 154; p. 41.
Flat foot, weak foot, or fallen arch of the foot, Device for the correction of. F. C. Schumacher. No. 957,718; May 10; Sp. p. 2581; Gaz. vol. 154; p. 446.
Flat-iron. J. Courtenay. No. 946,490; Jan. 11; Sp. p. 3338; Gaz. vol. 150; p. 536.
Flat-iron. F. Johnson. No. 972,452; Oct. 11; Sp. p. 2020; Gaz. vol. 159; p. 354.
Flat-iron, Electric. T. Van Aller. No. 973,593; Oct. 25; Sp. p. 4568; Gaz. vol. 159; p. 797.
Flat-iron, Electrically-heated. G. E. Stevens. No. 962,989; June 28; Sp. p. 5759; Gaz. vol. 155; p. 1008.
Flat-iron, Gas. F. D. Hegwood. No. 963,553; July 5; Sp. p. 1180; Gaz. vol. 156; p. 181.
Flat-iron-handle cooler. H. W. Sidgreaves. No. 961,543; June 14; Sp. p. 2701; Gaz. vol. 155; p. 468.
Flat-iron heater. W. Van Pietersom and F. Flerlage. No. 968,903; Aug. 30; Sp. p. 6544; Gaz. vol. 157; p. 1139.
Flat-iron heater. S. G. Buskard. No. 970,013; Sept. 13; Sp. p. 1886; Gaz. vol. 158; p. 321.
Flat-iron heater. S. A. Haring. No. 974,137; Nov. 1; Sp. p. 60; Gaz. vol. 160; p. 13.
Flat-iron-heating apparatus. F. Schitka. No. 959,616; May 31; Sp. p. 6900; Gaz. vol. 154; p. 1174.
Flat-key lock. J. Roche. No. 965,409; July 26; Sp. p. 5195; Gaz. vol. 156; p. 891.
Flattening-oven. R. L. Frink and W. R. Campbell. No. 972,612; Oct. 11; Sp. p. 2404; Gaz vol. 159; p. 411.
Flax, Retting. P. Riva. No. 971,076; Sept. 27; Sp. p. 4139; Gaz. vol. 158; p. 730.
Flax-treating apparatus. G. R. de Montlord. No. 945,726; Jan. 4; Sp. p. 1557; Gaz. vol. 150; p. 240.
Fleshing, unhairing, working-out, and setting machine. H. Alefs. No. 972,792; Oct. 18; Sp. p. 2779; Gaz. vol. 159; p. 497.
Flexible coupling. D. E. Maxfield. No. 953,700; Apr. 5; Sp. p. 39; Gaz. vol. 153; p. 10.
Flies and other insects, Device for catching. J. Nault. No. 959,155; May 24; Sp. p. 5944; Gaz. vol. 154; p. 995.
Fly-catcher. B. Droge. No. 950,843; Mar. 1; Sp. p. 816; Gaz. vol. 152; p. 130.
Fly-catcher. H. von Essen. No. 960,527; June 7; Sp. p. 576; Gaz. vol. 155; p. 95.
Fly-catcher. J. N. Dean. No. 968,237; Aug. 23; Sp. p. 5127; Gaz. vol. 157; p. 883.
Fly-catcher. W. G. Odatey. No. 970,944; Sept. 20; Sp. p. 3847; Gaz. vol. 158; p. 657.
Fly-catcher. C. Severin. No. 976,506; Nov. 22; Sp. p. 5357; Gaz. vol. 160; p. 909.
Fly-catcher. J. L. Davidson. No. 979,443; Dec. 27; Sp. p. 4374; Gaz. vol. 161; p. 774.

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Fly-catcher. M. E. Boerngen. No. 979,640; Dec. 27; Sp. p. 4804; Gaz. vol. 161; p. 843.
Fly-catcher, Portable. C. H. Pearce and L. T. Teuscher. No. 954,337; Apr. 5; Sp. p. 1370; Gaz. vol. 153; p. 227.
Fly-catching-paper holder. H. Pieper. No. 967,048; Aug. 9; Sp. p. 2628; Gaz. vol. 157; p. 431.
Fly-escape for window-screens. J. Kress. No. 970,723; Sept. 20; Sp. p. 3393; Gaz. vol. 158; p. 582.
Fly-exit. L. W. Clark. No. 954,256; Apr. 5; Sp. p. 1188; Gaz. vol. 153; p. 199.
Fly-frightener. A. W. Grove. No. 969,857; Sept. 13; Sp. p. 1552; Gaz. vol. 158; p. 266.
Fly-guard. P. Kreuscher. No. 957,425; May 10; Sp. p. 2003; Gaz. vol. 154; p. 346.
Fly-killer. C. H. Porter. No. 975,570; Nov. 15; Sp. p. 3330; Gaz. vol. 160; p. 565.
Fly-paper holder. C. F. Stoner and F. B. Trout. No. 959,898; May 31; Sp. p. 7508; Gaz. vol. 154; p. 1268.
Fly-paper holder. E. Nickum. No. 961,890; June 21; Sp. p. 3436; Gaz. vol. 155; p. 608.
Fly-paper holder. C. F. Stoner and F. B. Trout. No. 963,958; July 12; Sp. p. 2069; Gaz. vol. 156; p. 338.
Fly-paper holder. O. J. Boos. No. 965,364; July 26; Sp. p. 5111; Gaz. vol. 156; p. 877.
Fly-paper holder. C. F. Stoner and F. B. Trout. No. 969,219; Sept. 6; Sp. p. 162; Gaz. vol. 158; p. 27.
Fly-paper holder. A. Olsson. No. 975,152; Nov. 8; Sp. p. 2431; Gaz. vol. 160; p. 394.
Fly-paper, Sticky. C. J. Ross. No. 954,887; Apr. 12; Sp. p. 2617; Gaz. vol. 153; p. 445.
Fly-proof and other like screen for windows. F. Davison. No. 978,437; Dec. 13; Sp. p. 2207; Gaz. vol. 161; p. 382.
Fly-screen. J. C. Marsh. No. 956,495; Apr. 26; Sp. p. 6099; Gaz. vol. 153; p. 1055.
Fly-screen. V. J. Stratton. No. 958,562; May 17; Sp. p. 4681; Gaz. vol. 154; p. 769.
Fly-screen. M. L. Matheson. No. 969,644; Sept. 6; Sp. p. 1048; Gaz. vol. 158; p. 168.
Fly-screen. H. L. Franke. No. 969,777; Sept. 13; Sp. p. 1361; Gaz. vol. 158; p. 239.
Fly-trap. G. and H. R. Laube. No. 948,863; Feb. 8; Sp. p. 2285; Gaz. vol. 151; p. 389.
Fly-trap. W. C. Logan. No. 952,454; Mar. 22; Sp. p. 4021; Gaz. vol. 152; p. 744.
Fly-trap. E. B. Anderson. No. 958,208; May 17; Sp. p. 3827; Gaz. vol. 154; p. 647.
Fly-trap. F. M. Humphrey. No. 959,747; May 31; Sp. p. 7172; Gaz. vol. 154; p. 1217.
Fly-trap. R. Griswold. No. 969,363; Sept. 6; Sp. p. 452; Gaz. vol. 158; p. 73.
Fly-trap. D. H. Redden and J. F. Cunningham. No. 971,404; Sept. 27; Sp. p. 4783; Gaz. vol. 158; p. 837.
Fly-trap sash attachment. H. C. Kossow. No. 972,873; Oct. 18; Sp. p. 2971; Gaz. vol. 159; p. 526.
Fly-wheel for warping and balling machines. A. E. Rhoades. No. 958,974; May 24; Sp. p. 5569; Gaz. vol. 154; p. 935.
Fly-wheel. E. C. Critchlow. No. 960,277; June 7; Sp. p. 76; Gaz. vol. 155; p. 16.
Flying apparatus. J. Schülke. No. 968,700; Aug. 30; Sp. p. 6137; Gaz. vol. 157; p. 1071.
Flying-machine. L. C. Kincannon. No. 951,615; Mar. 8; Sp. p. 2336; Gaz. vol. 152; p. 405.
Flying-machine. I. Etrich and F. Wels. No. 952,316; Mar. 15; Sp. p. 3741; Gaz. vol. 152; p. 670.
Flying-machine. D. C. Funcheon. No. 953,198; Mar. 29; Sp. p. 5638; Gaz. vol. 152; p. 1025.
Flying-machine. E. J. Augsberger. No. 953,810; Apr. 5; Sp. p. 260; Gaz. vol. 153; p. 46.
Flying-machine. W. W. Christmas. No. 957,744; May 10; Sp. p. 2633; Gaz. vol. 154; p. 455.
Flying-machine. J. Koskine. No. 958,747; May 24; Sp. p. 5060; Gaz. vol. 154; p. 855.
Flying-machine. J. Buchanan. No. 959,199; May 24; Sp. p. 6037; Gaz. vol. 154; p. 1009.
Flying-machine. L. L. Crane. No. 960,831; June 7; Sp. p. 1201; Gaz. vol. 155; p. 200.
Flying-machine. S. Montgomery. No. 962,652; June 28; Sp. p. 5099; Gaz. vol. 155; p. 892.
Flying-machine. T. M. Crepar. No. 963,522; July 5; Sp. p. 1124; Gaz. vol. 156; p. 171.
Flying-machine. H. O. Eiane. No. 964,957; July 19; Sp. p. 4255; Gaz. vol. 156; p. 711.
Flying-machine. H. Schoüboe. No. 965,021; July 19; Sp. p. 4381; Gaz. vol. 156; p. 731.
Flying-machine. F. L. Gould. No. 965,452; July 26; Sp. p. 5298; Gaz. vol. 156; p. 906.
Flying-machine. C. B. Cronan. No. 965,622; July 26; Sp. p. 5690; Gaz. vol. 156; p. 967.
Flying-machine. F. H. Wales. No. 965,969; Aug. 2; Sp. p. 254; Gaz. vol. 157; p. 43.
Flying-machine. M. G. Adams. No. 966,151; Aug. 2; Sp. p. 653; Gaz. vol. 157; p. 105.
Flying-machine. A. H. Friedel. No. 967,359; Aug. 16; Sp. p. 3255; Gaz. vol. 157; p. 565.
Flying-machine. J. H. Buss. No. 968,120; Aug. 23; Sp. p. 4857; Gaz. vol. 157; p. 843.
Flying-machine. F. B. Kummer. No. 968,860; Aug. 30; Sp. p. 6451; Gaz. vol. 157; p. 1124.
Flying-machine. C. E. S. and F. R. Burch. No. 968,918; Aug. 30; Sp. p. 6571; Gaz. vol. 157; p. 1144.
Flying-machine. H. C. Gammeter. No. 968,931; Aug. 30; Sp. p. 6595; Gaz. vol. 157; p. 1148.
Flying-machine. T. A. Edison. No. 970,616; Sept. 20; Sp. p. 3133; Gaz. vol. 158; p. 546.
Flying-machine. J. W. Wilson. No. 970,771; Sept. 20; Sp. p. 3503; Gaz. vol. 158; p. 600.
Flying-machine. P. R. Torbrand. No. 970,974; Sept. 20; Sp. p. 3901; Gaz. vol. 158; p. 667.
Flying-machine. M. Ackerman. No. 971,235; Sept. 27; Sp. p. 4470; Gaz. vol. 158; p. 782.
Flying-machine. J. E. Harriman, Jr. No. 972,448; Oct. 11; Sp. p. 2011; Gaz. vol. 159; p. 353.
Flying-machine. R. T. Savino. No. 973,389; Oct. 18; Sp. p. 4138; Gaz. vol. 159; p. 706.
Flying-machine. L. L. Crane. No. 974,554; Nov. 1; Sp. p. 1104; Gaz. vol. 160; p. 166.
Flying-machine. R. C. Gore. No. 975,229; Nov. 8; Sp. p. 2608; Gaz. vol. 160; p. 421.
Flying-machine. S. H. French. No. 976,161; Nov. 22; Sp. p. 4556; Gaz. vol. 160; p. 788.
Flying-machine. J. H. Wilson. No. 976,765; Nov. 22; Sp. p. 5903; Gaz. vol. 160; p. 997.
Flying-machine. R. B., Jr., and J. C. Eubank. No. 977,517; Dec. 6; Sp. p. 224; Gaz. vol. 161; p. 33.
Flying-machine. E. Bertholf. No. 977,997; Dec. 6; Sp. p. 1243; Gaz. vol. 161; p. 199.
Flying-machine. H. G. Hill. No. 978,375; Dec. 13; Sp. p. 2069; Gaz. vol. 161; p. 361.
Flying-machine. W. W. Gibson. No. 978,732; Dec. 13; Sp. p. 2849; Gaz. vol. 161; p. 483.
Flying-machine. M. W. Sargeant. No. 979,341; Dec. 20; Sp. p. 4162; Gaz. vol. 161; p. 718.
Flying-machine. F. Goehner. No. 979,472; Dec. 27; Sp. p. 4433; Gaz. vol. 161; p. 783.
Flying-machine, &c. A. O. Hagstedt. No. 954,733; Apr. 12; Sp. p. 2245; Gaz. vol. 153; p. 390.
Flying-machine, Aeroplane. J. M. Biggs. No. 968,734; Aug. 30; Sp. p. 6201; Gaz. vol. 157; p. 1083.
Flying-machine, airship, and the like. V. Wisniewski. No. 948,121; Feb. 1; Sp. p. 707; Gaz. vol. 151; p. 116.
Flying-machine, Amusement. R. G. Dressler. No. 952,886; Mar. 22; Sp. p. 4961; Gaz. vol. 152; p. 893.
Flying-machine, Motor. A. Wunderlich. No. 952,167; Mar. 15; Sp. p. 3441; Gaz. vol. 152; p. 619.
Flying-machine, Motor. A. Wunderlich. No. 960,136; May 31; Sp. p. 8043; Gaz. vol. 154; p. 1351.
Flying-machine motors, Radiator for. L. Blériot. No. 967,712; Aug. 16; Sp. p. 3984; Gaz. vol. 157; p. 683.
Flying-machine steering mechanism. C. Bostel. No. 974,229; Nov. 1; Sp. p. 275; Gaz. vol. 160; p. 47.
Flying-machine supporting-plane. J. G. and F. Stites. No. 965,491; July 26; Sp. p. 5373; Gaz. vol. 156; p. 920.
Flying-machines and learning the art of aviation, Apparatus for testing. R. Alexander-Katz. No. 975,196; Nov. 8; Sp. p. 2547; Gaz. vol. 160; p. 411.
Flying-machines, Automatic balancing mechanism for. W. F. Sullivan. No. 976,312; Nov. 22; Sp. p. 4937; Gaz. vol. 160; p. 841.
Flying-machines, Automatic balancing mechanism in. S. S. Morrison. No. 972,395; Oct. 11; Sp. p. 1904; Gaz. vol. 159; p. 334.
Flying-machines, Means for steering. A. Koegler and K. Stelzer, Jr. No. 954,574; Apr. 12; Sp. p. 1868; Gaz. vol. 153; p. 334.
Float. A. W. Ayling and P. F. Reichert. No. 952,496; Mar. 22; Sp. p. 4119; Gaz. vol. 152; p. 758.
Float. G. Blank. No. 958,581; May 17; Sp. p. 4720; Gaz. vol. 154; p. 775.
Float. C. H. Zwermann. No. 964,729; July 19; Sp. p. 3803; Gaz. vol. 156; p. 632.
Float. B. O. Tilden. No. 966,720; Aug. 9; Sp. p. 1900; Gaz. vol. 157; p. 321.
Float combustion-indicator. A. W. K. Billings. No. 950,013; Feb. 22; Sp. p. 4749; Gaz. vol. 151; p. 839.
Float, Fluid-jet. J. L. Mauch. No. 979,681; Dec. 27; Sp. p. 4884; Gaz. vol. 161; p. 856.
Float, Hollow metal. F. N. Palmer. No. 967,231; Aug. 16; Sp. p. 3009; Gaz. vol. 157; p. 520.
Float tide-mill. U. S. Jackson. No. 961,410; June 14; Sp. p. 2393; Gaz. vol. 155; p. 423.
Flood and feed gate. A. J. Collar. No. 973,106; Oct. 18; Sp. p. 3513; Gaz. vol. 159; p. 607.
Flood-gate, Adjustable. W. Kemper. No. 965,112; July 19; Sp. p. 4566; Gaz. vol. 156; p. 761.
Floor and ceiling plate. H. J. Robinson. No. 957,000; May 3; Sp. p. 1089; Gaz. vol. 154; p. 171.
Floor-board press. W. Bruhn. No. 951,557; Mar. 8; Sp. p. 2226; Gaz. vol. 152; p. 386.
Floor-clamp. A. A. Oliver. No. 964,305; July 12; Sp. p. 2777; Gaz. vol. 156; p. 458.
Floor-cleaner. K. T. Broberg. No. 977,701; Dec. 6; Sp. p. 640; Gaz. vol. 161; p. 97.
Floor-cleansing apparatus. A. E. Moorhead. No. 965,315; July 26; Sp. p. 4997; Gaz. vol. 156; p. 860.
Floor construction. J. Kahn. No. 961,722; June 14; Sp. p. 3044; Gaz. vol. 155; p. 528.
Floor construction. H. H. Vought, Jr. No. 969,314; Sept. 6; Sp. p. 336; Gaz. vol. 158; p. 56.
Floor-covering. A. C. Eggers. No. 953,413; Mar. 29; Sp. p. 6106; Gaz. vol. 152; p. 1097.

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Floor-covering fastener. R. F. Cromleigh. No. 946,536; Jan. 18; Sp. p. 3441; Gaz. vol. 150; p. 578.
Floor-covering holder. D. Wolcott. No. 971,511; Sept. 27; Sp. p. 4974; Gaz. vol. 158; p. 871.
Floor-dressing machine. G. J. Kepplinger. No. 958,929; May 24; Sp. p. 5486; Gaz. vol. 154; p. 920.
Floor-dressing machine. G. F. Hall. No. 971,443; Sept. 27; Sp. p. 4846; Gaz. vol. 158; p. 849.
Floor-dressing machine. G. F. Hall. No. 972,446; Oct. 11; Sp. p. 2003; Gaz. vol. 159; p. 352.
Floor-dressing machine. H. T. Heusermann. No. 972,533; Oct. 11; Sp. p. 2217; Gaz. vol. 159; p. 383.
Floor finishing and polishing machine. W. O. Canfield. No. 976,040; Nov. 15; Sp. p. 4272; Gaz. vol. 160; p. 725.
Floor-flange. W. H. Schulte and R. C. Wilson. No. 978,404; Dec. 13; Sp. p. 2135; Gaz. vol. 161; p. 371.
Floor grinder and polisher. B. F. C. Jacobs and E. L. Lindroth. No. 948,174; Feb. 1; Sp. p. 800; Gaz. vol. 151; p. 133.
Floor-jack. J. W. Marsh. No. 950,673; Mar. 1; Sp. p. 448; Gaz. vol. 152; p. 73.
Floor-joist and ceiling, Combination. A. F. Leiter. No. 955,338; Apr. 19; Sp. p. 3552; Gaz. vol. 153; p. 628.
Floor leveling and surfacing machine. G. F. Hall. No. 970,043; Sept. 13; Sp. p. 1947; Gaz. vol. 158; p. 330.
Floor, Moisture-proof wood. J. W. Brady. No. 978,352; Dec. 13; Sp. p. 2023; Gaz. vol. 161; p. 352.
Floor-polishing machine. E. Post. No. 979,798; Dec. 27; Sp. p. 5169; Gaz. vol. 161; p. 896.
Floor-scraper. S. Mowry and J. Hursh. No. 953,098; Mar. 29; Sp. p. 5417; Gaz. vol. 152; p. 992.
Floor-scraper. J. F. Weber. No. 954,485; Apr. 12; Sp. p. 1680; Gaz. vol. 153; p. 304.
Floor-scraper. W. F. Stern. No. 955,444; Apr. 19; Sp. p. 3772; Gaz. vol. 153; p. 662.
Floor-scraper. A. T. Beeler. No. 960,787; June 7; Sp. p. 1109; Gaz. vol. 155; p. 185.
Floor-scraper. F. Stephens. No. 962,926; June 28; Sp. p. 5642; Gaz. vol. 155; p. 988.
Floor-scraper. L. S. Starrett. No. 966,962; Aug. 9; Sp. p. 2434; Gaz. vol. 157; p. 400.
Floor-scraper. G. J. Kepplinger. No. 977,526; Dec. 6; Sp. p. 255; Gaz. vol. 161; p. 37.
Floor-set. F. Norton. No. 975,566; Nov. 15; Sp. p. 3323; Gaz. vol. 160; p. 564.
Floor surfacer, cleaner, and polisher. W. E. Warner. No. 970,583; Sept. 20; Sp. p. 3067; Gaz. vol. 158; p. 534.
Floor surfacing and polishing machine. P. Sass. No. 978,654; Dec. 13; Sp. p. 2691; Gaz. vol. 161; p. 458.
Floor-surfacing device. P. T. Lemaster. No. 948,927; Feb. 8; Sp. p. 2406; Gaz. vol. 151; p. 410.
Floor-surfacing device. C. W. Wiley. No 959,281; May 24; Sp. p. 6202; Gaz. vol. 154; p. 1036.
Floor-surfacing machine. F. L. Cummings and E. Hathaway. No. 959,721; May 31; Sp. p. 7115; Gaz. vol. 154; p. 1208.
Floor-surfacing machine. F. H. Wright. No. 976,716; Nov. 22; Sp. p. 5784; Gaz. vol. 160; p. 979.
Floor-surfacing machine. W. E. Warner. No. 979,614; Dec. 27; Sp. p. 4749; Gaz. vol. 161; p. 834.
Floor surfacing, scrubbing, and polishing machine, Electric rotary. W. H. Strange. No. 972,729; Oct. 11; Sp. p. 2653; Gaz. vol. 159; p. 451.
Floor-sweep. F. H. Day. No. 969,157; Sept. 6; Sp. p. 12; Gaz. vol. 158; p. 5.
Floor-wiper. G. Friedman. No. 960,879; June 7; Sp. p. 1289; Gaz. vol. 155; p. 215.
Flooring. J. F. Masters. No. 947,114; Jan. 18; Sp. p. 4661; Gaz. vol. 150; p. 769.
Flooring. S. Mrokowski. No. 966,347; Aug. 2; Sp. p. 1045; Gaz. vol. 157; p. 168.
Flooring-cramp. P. Pickering. No. 977,471; Dec. 6; Sp. p. 93; Gaz. vol. 161; p. 18.
Flooring, Parquet. W. A. Hall. No. 977,796; Dec. 6; Sp. p. 824; Gaz. vol. 161; p. 129.
Flooring, Sectional metallic. J. H. Stiggleman. No. 958,557; May 17; Sp. p. 4669; Gaz. vol. 154; p. 767.
Flooring-tool. J. E. Burns. No. 977,708; Dec. 6; Sp. p. 654; Gaz. vol. 161; p. 100.
Flooring, Wood. J. J. C. Hasbrouck. No. 972,529; Oct. 11; Sp. p. 2212; Gaz. vol. 159; p. 382.
Floss and waste silk, Destruction of hairs, &c., in. C. Seignol. No. 974,440; Nov. 1; Sp. p. 828; Gaz. vol. 160; p. 123.
Flour. C. Herendeen. No. 958,496; May 17; Sp. p. 4555; Gaz. vol. 154; p. 747.
Flour-bin. J. S. McQuinn. No. 948,703; Feb. 8; Sp. p. 1958; Gaz. vol. 151; p. 336.
Flour-bleaches, Applying. J. A. Wesener. No. 951,468; Mar. 8; Sp. p. 2057; Gaz. vol. 152; p. 356.
Flour-handling apparatus. F. J. Wolff. No. 971,811; Oct. 4; Sp. p. 626; Gaz. vol. 159; p. 110.
Flour, Making. C. Herendeen. No. 958,494; May 17; Sp. p. 4553; Gaz. vol. 154; p. 746.
Flour, Making. C. Herendeen. No. 958,495; May 17; Sp. p. 4554; Gaz. vol. 154; p. 746.
Flour-mill feed-regulator. G. H. Hottel. No. 969,372; Sept. 6; Sp. p. 484; Gaz. vol. 158; p. 77.
Flour-milling. R. Buchanan. No. 977,431; Dec. 6; Sp. p. 10; Gaz. vol. 161; p. 5.
Flour-packing machine. J. Merritt. No. 949,240; Feb. 15; Sp. p. 3054; Gaz. vol. 151; p. 540.
Flow-indicator. C. Küppers. No. 979,516; Dec. 27; Sp. p. 4519; Gaz. vol. 161; p. 798.
Flow-regulator. T. Larsson. No. 963,906; July 12; Sp. p. 1959; Gaz. vol. 156; p. 322.
Flower, Artificial. E. Antonucci. No. 970,413; Sept. 13; Sp. p. 2688; Gaz. vol. 158; p. 454.
Flower-holder. A. Hoffmann. No. 946,361; Jan. 11; Sp. p. 2963; Gaz. vol. 150; p. 492.
Flower-holder. A. J. Binley. No. 974,114; Nov. 1; Sp. p. 18; Gaz. vol. 160; p. 6.
Flower-holder and insect-trap. T. L. Berlinger. No. 972,092; Oct. 4; Sp. p. 1253; Gaz. vol. 159; p. 212.
Flower-holder, Illuminated. F. Muschenheim. No. 963,057; July 5; Sp. p. 58; Gaz. vol. 156; p. 12.
Flower-holding and grave-covering device. J. C. Van Aken. No. 961,994; June 21; Sp. p. 3648; Gaz. vol. 155; p. 642.
Flower-pot. H. Klemm. No. 954,440; Apr. 12; Sp. p. 1567; Gaz. vol. 153; p. 288.
Flower-pot. E. J. Aul. No. 964,196; July 12; Sp. p. 2542; Gaz. vol. 156; p. 419.
Flower-pot and jacket for the same. G. Hershkovitz. No. 955,644; Apr. 19; Sp. p. 4225; Gaz. vol. 153; p. 732.
Flower-pot holder. T. McManus. No. 977,818; Dec. 6; Sp. p. 867; Gaz. vol. 161; p. 136.
Flower-stand. A. Stigler. No. 966,262; Aug. 2; Sp. p. 892; Gaz. vol. 157; p. 142.
Flower-stand. W. Gaethje. No. 976,061; Nov. 15; Sp. p. 4310; Gaz. vol. 160; p. 731.
Flower-support. J. E. Matthewson. No. 966,936; Aug. 9; Sp. p. 2387; Gaz. vol. 157; p. 391.
Flue-base. J. Grissom. No. 973,777; Oct. 25; Sp. p. 4963; Gaz. vol. 159; p. 863.
Flue-blower. F. Shmonsky. No. 955,706; Apr. 19; Sp. p. 4362; Gaz. vol. 153; p. 753.
Flue-blower. G. W. Bernauer. No. 956,670; May 3; Sp. p. 352; Gaz. vol. 154; p. 58.
Flue-cleaner. C. W. Hadlock. No. 947,905; Feb. 1; Sp. p. 268; Gaz. vol. 151; p. 44.
Flue-cleaner. S. S. Poole. No. 949,495; Feb. 15; Sp. p. 3595; Gaz. vol. 151; p. 626.
Flue-cleaner. V. G. Becker. No. 956,668; May 3; Sp. p. 348; Gaz. vol. 154; p. 58.
Flue-cleaner. E. H. Reiter. No. 966,051; Aug. 2; Sp. p. 454; Gaz. vol. 157; p. 73.
Flue-cleaner, Hammer. W. J. Baker. No. 979,121; Dec. 20; Sp. p. 3713; Gaz. vol. 161; p. 643.
Flue-cleaners, Device for handling. M. O. Lewis. No. 977,411; Nov. 29; Sp. p. 7360; Gaz. vol. 160; p. 1245.
Flue-cleaning device. N. E. Bartles and C. O. Hawkins. No. 961,574; June 14; Sp. p. 2759; Gaz. vol. 155; p. 478.
Flue-cutter. W. H. Damon. No. 946,204; Jan. 11; Sp. p. 2625; Gaz. vol. 150; p. 436.
Flue-plug. W. F. Peters. No. 974,819; Nov. 8; Sp. p. 1676; Gaz. vol. 160; p. 281.
Flue-point and its attachment to flue-sheets. C. S. Coleman. No. 949,621; Feb. 15; Sp. p. 3841; Gaz. vol. 151; p. 669.
Flue-receiver, Adjustable. J. J. McDonald. No. 975,703; Nov. 15; Sp. p. 3611; Gaz. vol. 160; p. 609.
Flue-stopper. G. O. Terry. No. 956,610; May 3; Sp. p. 224; Gaz. vol. 154; p. 38.
Flue-thimble. R. Hall. No. 964,642; July 19; Sp. p. 3517; Gaz. vol. 156; p. 601.
Flues, Means for cleaning gas-. W. B. Chapman. No. 973,759; Oct. 25; Sp. p. 4921; Gaz. vol. 159; p. 856.
Fluid-actuated motor. W. Snee. No. 970,404; Sept. 13; Sp. p. 2669; Gaz. vol. 158; p. 451.
Fluid-actuated motor. J. S. Ward. No. 977,574; Dec. 6; Sp. p. 363; Gaz. vol. 161; p. 53.
Fluid-brake. F. Böminghaus. No. 964,485; July 19; Sp. p. 3144; Gaz. vol. 156; p. 547.
Fluid-circulating apparatus. G. W. Nistle and R. L. Gifford. No. 971,920; Oct. 4; Sp. p. 878; Gaz. vol. 159; p. 151.
Fluid-compressor. W. W. Annable and J. W. Fitzgerald. No. 954,605; Apr. 12; Sp. p. 1944; Gaz. vol. 153; p. 344.
Fluid-compressors, Automatic controlling device for. H. T. Herr. No. 953,617; Mar. 29; Sp. p. 6539; Gaz. vol. 152; p. 1168.
Fluid-compressors, Construction of rotating wheels for rotary. A. Huguenin. No. 958,129; May 17; Sp. p. 3671; Gaz. vol. 154; p. 619.
Fluid-controlling device. A. C. Nelson. No. 959,025; May 24; Sp. p. 5663; Gaz. vol. 154; p. 952.
Fluid-distributing apparatus. M. K. Mermod. No. 961,785; June 21; Sp. p. 3190; Gaz. vol. 155; p. 573.
Fluid-elevator. R. L. Eberman. No. 954,270; Apr. 5; Sp. p. 1216; Gaz. vol. 153; p. 203.
Fluid-expansion press. L. C. Turley. No. 961,046; June 7; Sp. p. 1622; Gaz. vol. 155; p. 272.
Fluid-feed-regulating apparatus. M. F. Newman. No. 963,382; July 5; Sp. p. 836; Gaz. vol. 156; p. 124.
Fluid generators, Construction of motive-. F. S. McKibben. No. 962,458; June 28; Sp. p. 4680; Gaz. vol. 155; p. 826.
Fluid-heating apparatus. C. W. Wellman. No. 949,512; Feb. 15; Sp. p. 3631; Gaz. vol. 151; p. 632.

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Fluid-heating device. C. M. Rice. No. 976,915; Nov. 29; Sp. p. 6236; Gaz. vol. 160; p. 1073.
Fluid in conduits, Device for establishing a pulsing motion of. G. Dalén. No. 976,556; Nov. 22; Sp. p. 5479; Gaz. vol. 160; p. 926.
Fluid-indicator. E. A. Cramer. No. 954,423; Apr. 12; Sp. p. 1537; Gaz. vol. 153; p. 282.
Fluid-jet motor. C. C. Cline. No. 961,209; June 14; Sp. p. 1966; Gaz. vol. 155; p. 355.
Fluid-motor. W. J. Morrison. No. 955,896; Apr. 26; Sp. p. 4796; Gaz. vol. 153; p. 848.
Fluid-motor. A. Kelso. No. 963,581; July 5; Sp. p. 1246; Gaz. vol. 156; p. 191.
Fluid-motor. C. F. Benitez. No. 971,517; Oct. 4; Sp. p. 13; Gaz. vol. 159; p. 4.
Fluid motor, Elastic-. J. I. Shirley. No. 958,553; May 17; Sp. p. 4663; Gaz. vol. 154; p. 766.
Fluid-operated apparatus. E. Ketterer. No. 959,547; May 31; Sp. p. 6763; Gaz. vol. 154; p. 1151.
Fluid-pressure appliance. T. S. Scott. No. 975,467; Nov. 15; Sp. p. 3097; Gaz. vol. 160; p. 529.
Fluid-pressure brake. J. W. Cloud. No. 959,114; May 24; Sp. p. 5854; Gaz. vol. 154; p. 981.
Fluid-pressure brake. F. B. Farmer and W. V. Turner. No. 959,128; May 24; Sp. p. 5887; Gaz. vol. 154; p. 986.
Fluid-pressure engine. J. Klein and A. Friederichs. No. 945,462; Jan. 4; Sp. p. 969; Gaz. vol. 150; p. 152.
Fluid-pressure governor. G. Macloskie. No. 953,213; Mar. 29; Sp. p. 5666; Gaz. vol. 152; p. 1029.
Fluid-pressure governor. G. C. Hicks, Jr., and R. C. Enyart. No. 973,197; Oct. 18; Sp. p. 3748; Gaz. vol. 159; p. 640.
Fluid-pressure impact-engine. J. Kincaid. No. 962,511; June 28; Sp. p. 4794; Gaz. vol. 155; p. 844.
Fluid-pressure motor. H. B. Holt. No. 957,339; May 10; Sp. p. 1828; Gaz. vol. 154; p. 318.
Fluid-pressure motor. R. C. Jenner. No. 964,866; July 19; Sp. p. 4078; Gaz. vol. 156; p. 680.
Fluid-pressure motor. D. S. Waugh. No. 974,543; Nov. 1; Sp. p. 1082; Gaz. vol. 160; p. 162.
Fluid-pressure motor and controlling mechanism therefor. W. H. Cahall. No. 976,983; Nov. 29; Sp. p. 6429; Gaz. vol. 160; p. 1098.
Fluid-pressure motor and pump. T. and W. Moss. No. 950,945; Mar. 1; Sp. p. 1012; Gaz. vol. 152; p. 162.
Fluid-pressure regulating device. G. S. Gaslee. No. 949,180; Feb. 15; Sp. p. 2941; Gaz. vol. 151; p. 521.
Fluid-pressure regulator. E. J. Rohrbacher. No. 951,513; Mar. 8; Sp. p. 2138; Gaz. vol. 152; p. 371.
Fluid-pressure regulator. W. V. Turner. No. 953,403; Mar. 29; Sp. p. 6084; Gaz. vol. 152; p. 1093.
Fluid-pressure regulator. A. G. Beckman. No. 954,072; Apr. 5; Sp. p. 784; Gaz. vol. 153; p. 136.
Fluid-pressure regulator. W. E. Beech. No. 965,064; July 19; Sp. p. 4480; Gaz. vol. 156; p. 745.
Fluid-pressure regulator. L. P. Lowe. No. 967,214; Aug. 16; Sp. p. 2969; Gaz. vol. 157; p. 514.
Fluid-pressure regulator. T. S. Pukerud. No. 967,234; Aug. 16; Sp. p. 3014; Gaz. vol. 157; p. 521.
Fluid-pressure regulator. M. Jaspersen. No. 971,275; Sept. 27; Sp. p. 4542; Gaz. vol. 158; p. 794.
Fluid-pressure system. C. E. Lord. No. 969,788; Sept. 13; Sp. p. 1384; Gaz. vol. 158; p. 242.
Fluid-propelled direct-acting engine. W. Mauss. No. 968,381; Aug. 23; Sp. p. 5415; Gaz. vol. 157; p. 935.
Fluid pulsating apparatus. C. C. Glidden. No. 969,782; Sept. 13; Sp. p. 1373; Gaz. vol. 158; p. 241.
Fluid-regulator. G. J. Leber. No. 956,585; May 3; Sp. p. 169; Gaz. vol. 154; p. 29.
Fluid-regulator, Automatic. J. J. McDonald. No. 960,033; May 31; Sp. p. 7844; Gaz. vol. 154; p. 1318.
Fluid substances, Desiccating. A. G. Kalb. No. 957,849; May 10; Sp. p. 2849; Gaz. vol. 154; p. 488.
Fluid substances, Desiccating. A. G. Kalb. No. 957,850; May 10; Sp. p. 2853; Gaz. vol. 154; p. 489.
Fluid substances, Desiccating. W. S. Osborne. No. 962,781; June 28; Sp. p. 5370; Gaz. vol. 155; p. 938.
Fluids, Apparatus for compressing elastic. C. H. Stuart and C. Scott-Snell. No. 969,123; Aug. 30; Sp. p. 6982; Gaz. vol. 157; p. 1215.
Fluids, Device for determining the force or velocity of. G. H. Whitcher. No. 949,788; Feb. 22; Sp. p. 4198; Gaz. vol. 151; p. 758.
Fluids, Gage for determining the velocity of. F. H. Crawford and M. B. Carmody. No. 945,704; Jan. 4; Sp. p. 1491; Gaz. vol. 150; p. 233.
Fluids, Interconversion of kinetic and potential energy of. S. Z. de Ferranti. No. 964,633; July 19; Sp. p. 3497; Gaz. vol. 156; p. 598.
Fluids, Process and apparatus for the interconversion of kinetic and potential energy in. S. Z. de Ferranti. No. 948,213; Feb. 1; Sp. p. 885; Gaz. vol. 151; p. 145.
Fluids, Rate-indicating device for. F. N. Connet. No. 960,275; June 7; Sp. p. 70; Gaz. vol. 155; p. 15.
Flume. A. W. Robinson. No. 967,241; Aug. 16; Sp. p. 3027; Gaz. vol. 157; p. 524.
Flume-gate. M. H. Worley. No. 952,658; Mar. 22; Sp. p. 4484; Gaz. vol. 152; p. 816.
Flume-gate. N. H. Worley. No. 973,606; Oct. 25; Sp. p. 4610; Gaz. vol. 159; p. 802.
Flume, Metallic. G. L. Hess. No. 973,656; Oct. 25; Sp. p. 4718; Gaz. vol. 159; p. 820.
Flume or conduit. W. J. Smith. No. 971,087; Sept. 27; Sp. p. 4156; Gaz. vol. 158; p. 733.
Fluorescence of fluorescent substances, Apparatus for detecting and exhibiting the. W. G. Levison. No. 947,246; Jan. 25; Sp. p. 4936; Gaz. vol. 150; p. 841.
Flush attachment plug-receptacle. C. D. Platt. No. 968,261; Aug. 23; Sp. p. 5174; Gaz. vol. 157; p. 892.
Flush bolt. W. K. Henry. No. 967,377; Aug. 16; Sp. p. 3294; Gaz. vol. 157; p. 570.
Flush-box. V. H. Hobson. No. 947,663; Jan. 25; Sp. p. 5922; Gaz. vol. 150; p. 984.
Flush-receptacle plate, Self-closing. H. Hubbell. No. 961,720; June 14; Sp. p. 3042; Gaz. vol. 155; p. 527.
Flush-tank. K. Kohler. No. 962,765; June 28; Sp. p. 5339; Gaz. vol. 155; p. 933.
Flush-tank-operating mechanism. B. O. Tilden. No. 945,295; Jan. 4; Sp. p. 631; Gaz. vol. 150; p. 98.
Flush-tank-operating mechanism. B. O. Tilden. No. 945,424; Jan. 4; Sp. p. 906; Gaz. vol. 150; p. 141.
Flush-tanks, Operating-lever for low-down. J. W. Blakemore. No. 963,855; July 12; Sp. p. 1855; Gaz. vol. 156; p. 305.
Flusher for water-closets, &c. W. Turnbull. No. 960,602; June 7; Sp. p. 740; Gaz. vol. 155; p. 122.
Flushing and heating system. J. B. Morgan. No. 976,484; Nov. 22; Sp. p. 5319; Gaz. vol. 160; p. 902.
Flushing apparatus. J. A. Staples. No. 949,853; Feb. 22; Sp. p. 4339; Gaz. vol. 151; p. 781.
Flushing apparatus. W. L. Deming. No. 952,240; Mar. 15; Sp. p. 3583; Gaz. vol. 152; p. 644.
Flushing apparatus. P. S. Millice. No. 956,863; May 3; Sp. p. 791; Gaz. vol. 154; p. 126.
Flushing apparatus. H. J. Gosse and W. Wagner. No. 963,707; July 5; Sp. p. 1491; Gaz. vol. 156; p. 232.
Flushing apparatus. O. T. Richey. No. 973,973; Oct. 25; Sp. p. 5352; Gaz. vol. 159; p. 931.
Flushing apparatus. W. Guyton. No. 976,870; Nov. 29; Sp. p. 6135; Gaz. vol. 160; p. 1057.
Flushing apparatus, Air-seal. H. D. Moise. No. 965,531; July 26; Sp. p. 5488; Gaz. vol. 156; p. 935.
Flushing apparatus, Closet-. W. S. Graham. No. 970,214; Sept. 13; Sp. p. 2312; Gaz. vol. 158; p. 389.
Flushing apparatus for closets, &c. H. D. Moise. No. 965,479; July 26; Sp. p. 5352; Gaz. vol. 156; p. 916.
Flushing apparatus, Street-. W. H. Stewart. No. 969,217; Sept. 6; Sp. p. 158; Gaz. vol. 158; p. 26.
Flushing attachment, Drain-pipe-. W. A. Coles. No. 964,954; July 19; Sp. p. 4250; Gaz. vol. 156; p. 710.
Flushing device. F. F. Hawkins. No. 946,130; Jan. 11; Sp. p. 2458; Gaz. vol. 150; p. 410.
Flushing device. F. W. Bassett and W. A. Hunter, Jr. No. 956,875; May 3; Sp. p. 813; Gaz. vol. 154; p. 129.
Flushing device. H. M. Smith and D. Keneven. No. 958,841; May 24; Sp. p. 5281; Gaz. vol. 154; p. 890.
Flushing device, Closet-. C. H. Duncan. No. 958,734; May 24; Sp. p. 5021; Gaz. vol. 154; p. 850.
Flushing devices, Seat-operated mechanism for actuating. J. G. Hodgson. No. 963,440; July 5; Sp. p. 959; Gaz. vol. 156; p. 143.
Flushing mechanism, Automatic. C. H. Phillips. No. 968,974; Aug. 30; Sp. p. 6671; Gaz. vol. 157; p. 1162.
Flushing mechanism for closet-tanks. J. S. Welborn. No. 945,206; Jan. 4; Sp. p. 414; Gaz. vol. 150; p. 68.
Flushing mechanism for closet-tanks. J. S. Welborn. No. 970,866; Sept. 20; Sp. p. 3706; Gaz. vol. 158; p. 633.
Flushing-tank. J. P. Glannon. No. 949,927; Feb. 22; Sp. p. 4525; Gaz. vol. 151; p. 808.
Flushing-tank. W. C. Eakin and R. Deboo. No. 951,758; Mar. 8; Sp. p. 2627; Gaz. vol. 152; p. 454.
Flushing-tank. E. Eichman. No. 958,105; May 17; Sp. p. 3620; Gaz. vol. 154; p. 610.
Flushing-tank. F. J. Morgan. No. 961,458; June 14; Sp. p. 2502; Gaz. vol. 155; p. 440.
Flushing-tank. G. H. Bailey. No. 963,738; July 12; Sp. p. 1580; Gaz. vol. 156; p. 266.
Flushing-tank. G. H. Bailey. No. 969,442; Sept. 6; Sp. p. 614; Gaz. vol. 158; p. 98.
Flushing-tank, Automatic. E. P. Stary. No. 969,305; Sept. 6; Sp. p. 321; Gaz. vol. 158; p. 53.
Flushing tank or cistern. G. W. Palmer and F. E. Pierce. No. 954,131; Apr. 5; Sp. p. 897; Gaz. vol. 153; p. 156.
Flushometer. F. M. Ashley. No. 964,735; July 19; Sp. p. 3812; Gaz. vol. 156; p. 634.
Flushometer. F. M. Ashley. No. 964,736; July 19; Sp. p. 3816; Gaz. vol. 156; p. 634.
Flux for brass plating. W. S. Rockey and H. Eldridge. No. 971,563; Oct. 4; Sp. p. 115; Gaz. vol. 159; p. 22.
Flux for brazing metals. W. W. McIver. No. 965,647; July 26; Sp. p. 5741; Gaz. vol. 156; p. 976.
Flux for protecting a bath of copper or brass. W. S. Rockey and H. Eldridge. No. 971,564; Oct. 4; Sp. p. 116; Gaz. vol. 159; p. 22.
Fob, Key-ring. H. O. Fowler. No. 964,228; July 12; Sp. p. 2616; Gaz. vol. 156; p. 430.
Fodder-cutter. J. Dick. No. 974,776; Nov. 8; Sp. p. 1583; Gaz. vol. 160; p. 266.
Fog-horn. J. Kleinberger and R. Stern. No. 975,960; Nov. 15; Sp. p. 4127; Gaz. vol. 160; p. 697.

Foldable table. S. M. Bond. No. 963,502; July 5; Sp. p. 1076; Gaz. vol. 156; p. 164.
Foldable table and attachment therefor. H. F. Thomas. No. 948,191; Feb. 1; Sp. p. 839; Gaz. vol. 151; p. 138.
Folder. C. H. Pettigrew. No. 953,286; Mar. 29; Sp. p. 5822; Gaz. vol. 152; p. 1053.
Folder. F. C. Mathews. No. 977,814; Dec. 6; Sp. p. 816; Gaz. vol. 161; p. 135.
Folding and delivery mechanism. W. Scott. No. 952,714; Mar. 22; Sp. p. 4603; Gaz. vol. 152; p. 835.
Folding and wrapping machine. S. C. Cox. No. 979,439; Dec. 27; Sp. p. 4359; Gaz. vol. 161; p. 772.
Folding bench. E. W. Heiser. No. 960,916; June 7; Sp. p. 1353; Gaz. vol. 155; p. 227.
Folding box. A. Goldenetz. No. 952,444; Mar. 22; Sp. p. 3992; Gaz. vol. 152; p. 740.
Folding box. A. Goldenetz. No. 952,445; Mar. 22; Sp. p. 3996; Gaz. vol. 152; p. 741.
Folding box. F. G. Fischer. No. 953,132; Mar. 29; Sp. p. 5497; Gaz. vol. 152; p. 1003.
Folding box. J. M. Puley. No. 953,761; Apr. 5; Sp. p. 159; Gaz. vol. 153; p. 30.
Folding box. J. A. Wagnitz. No. 956,236; Apr. 26; Sp. p. 5541; Gaz. vol. 153; p. 967.
Folding box. J. G. Reber. No. 959,261; May 24; Sp. p. 6161; Gaz. vol. 154; p. 1030.
Folding box. G. B. Streit. No. 968,286; Aug. 23; Sp. p. 5234; Gaz. vol. 157; p. 901.
Folding box. J. W. Putnam. No. 973,068; Oct. 18; Sp. p. 3435; Gaz. vol. 159; p. 595.
Folding box and crate. C. Dickie. No. 965,089; July 19; Sp. p. 4528; Gaz. vol. 156; p. 754.
Folding box and crate. H. M. Johnston and A. K. Bowman. No. 971,279; Sept. 27; Sp. p. 4551; Gaz. vol. 158; p. 796.
Folding box and crate. E. Lacey. No. 971,903; Oct. 4; Sp. p. 843; Gaz. vol. 159; p. 145.
Folding box and crate. J. Biro. No. 977,263; Nov. 29; Sp. p. 7027; Gaz. vol. 160; p. 1195.
Folding bracket. A. D. Hill. No. 965,816; July 26; Sp. p. 6093; Gaz. vol. 156; p. 1033.
Folding bracket. C. H. Richardson and F. F. Metzger. No. 975,069; Nov. 8; Sp. p. 2245; Gaz. vol. 160; p. 366.
Folding bracket. C. H. Richardson and F. F. Metzger. No. 975,070; Nov. 8; Sp. p. 2247; Gaz. vol. 160; p. 366.
Folding chair. J. Hajos. No. 946,352; Jan. 11; Sp. p. 2943; Gaz. vol. 150; p. 489.
Folding chair. J. J. Wolfe. No. 947,090; Jan. 18; Sp. p. 4617; Gaz. vol. 150; p. 762.
Folding chair. C. A. Buffington. No. 947,673; Jan. 25; Sp. p. 5936; Gaz. vol. 150; p. 987.
Folding chair. W. H. Stow. No. 954,221; Apr. 5; Sp. p. 1130; Gaz. vol. 153; p. 188.
Folding chair. F. Martinson. No. 960,659; June 7; Sp. p. 859; Gaz. vol. 155; p. 142.
Folding chair. A. E. Engström. No. 971,738; Oct. 4; Sp. p. 482; Gaz. vol. 159; p. 84.
Folding cup, Flexible. A. G. Brandt. No. 977,159; Nov. 29; Sp. p. 6815; Gaz. vol. 160; p. 1158.
Folding, cutting, and delivering mechanism, Variable-size-sheet. H. M. Barber. No. 978,537; Dec. 13; Sp. p. 2415; Gaz. vol. 161; p. 416.
Folding device. W. F. Klinck. No. 959,354; May 24; Sp. p. 6347; Gaz. vol. 154; p. 1061.
Folding gate. A. Bataille. No. 949,739; Feb. 15; Sp. p. 4074; Gaz. vol. 151; p. 708.
Folding knife. W. A. Hall. No. 950,102; Feb. 22; Sp. p. 4936; Gaz. vol. 151; p. 869.
Folding-machine. J. Tomlinson. No. 948,117; Feb. 1; Sp. p. 700; Gaz. vol. 151; p. 114.
Folding-machine. H. K. King. No. 948,547; Feb. 8; Sp. p. 1612; Gaz. vol. 151; p. 283.
Folding-machine. S. G. Goss. No. 954,086; Apr. 5; Sp. p. 810; Gaz. vol. 153; p. 141.
Folding-machine. S. G. Goss. No. 954,087; Apr. 5; Sp. p. 815; Gaz. vol. 153; p. 141.
Folding-machine. H. C. Schroeder. No. 954,142; Apr. 5; Sp. p. 922; Gaz. vol. 153; p. 160.
Folding-machine. E. H. Brown. No. 954,775; Apr. 12; Sp. p. 2344; Gaz. vol. 153; p. 405.
Folding-machine. J. Maitland. No. 963,232; July 5; Sp. p. 514; Gaz. vol. 156; p. 73.
Folding-machine. S. Hollingsworth. No. 966,095; Aug. 2; Sp. p. 534; Gaz. vol. 157; p. 86.
Folding-machine. G. W. Smith. No. 972,272; Oct. 11; Sp. p. 1658; Gaz. vol. 159; p. 292.
Folding-machine. W. J. Beattie. No. 972,320; Oct. 11; Sp. p. 1748; Gaz. vol. 159; p. 307.
Folding-machine. W. J. Beattie. No. 972,495; Oct. 11; Sp. p. 2119; Gaz. vol. 159; p. 369.
Folding-machine feed device. J. H. Adams and E. D. Wallace. No. 960,138; May 31; Sp. p. 8046; Gaz. vol. 154; p. 1352.
Folding machinery. E. H. Cottrell. No. 970,688; Sept. 20; Sp. p. 3318; Gaz. vol. 158; p. 570.
Folding mechanism. H. C. Schroeder. No. 954,141; Apr. 5; Sp. p. 918; Gaz. vol. 153; p. 160.
Folding or collapsible box, case, and the like. D. Parkins. No. 945,797; Jan. 11; Sp. p. 1753; Gaz. vol. 150; p. 294.
Folding seat. J. G. Arter. No. 945,208; Jan. 4; Sp. p. 418; Gaz. vol. 150; p. 69.
Folding seat. M. Ackerman. No. 970,777; Sept. 20; Sp. p. 3522; Gaz. vol. 158; p. 602.
Folding seat. H. Humphrey. No. 974,384; Nov. 1; Sp. p. 689; Gaz. vol. 160; p. 104.
Folding table. S. Hyde. No. 955,804; Apr. 19; Sp. p. 4550; Gaz. vol. 153; p. 786.
Folding table. J. C. Eckartz. No. 963,698; July 5; Sp. p. 1477; Gaz. vol. 156; p. 229.
Folding table. K. G. Johanson. No. 965,467; July 26; Sp. p. 5333; Gaz. vol. 156; p. 912.
Folding table. G. S. Young. No. 970,774; Sept. 20; Sp. p. 3516; Gaz. vol. 158; p. 601.
Folding table. F. Schmidtmann. No. 973,220; Oct. 18; Sp. p. 3790; Gaz. vol. 159; p. 648.
Folding table, Portable. S. Cerrini. No. 964,392; July 12; Sp. p. 2938; Gaz. vol. 156; p. 485.
Follower-wheel, Composite. H. H. Tunis. No. 955,227; Apr. 19; Sp. p. 3310; Gaz. vol. 153; p. 591.
Fondant-mixing machine. S. E. Ball. No. 948,949; Feb. 8; Sp. p. 2453; Gaz. vol. 151; p. 417.
Food boiler and steamer. P. Wiegand. No. 948,198; Feb. 1; Sp. p. 852; Gaz. vol. 151; p. 140.
Food, Cattle. E. S. Davis, Jr. No. 949,416; Feb. 15; Sp. p. 3452; Gaz. vol. 151; p. 602.
Food-chopper. O. D. Woodruff. No. 953,935; Apr. 5; Sp. p. 497; Gaz. vol. 153; p. 91.
Food-chopper. N. A. Thomas. No. 978,790; Dec. 13; Sp. p. 2961; Gaz. vol. 161; p. 501.
Food compound. E. W. Lasby. No. 977,746; Dec. 6; Sp. p. 719; Gaz. vol. 161; p. 113.
Food-cutter. J. Anderson. No. 952,665; Mar. 22; Sp. p. 4497; Gaz. vol. 152; p. 818.
Food for animals, Making. C. T. Michaëly. No. 946,642; Jan. 18; Sp. p. 3649; Gaz. vol. 150; p. 611.
Food-guard. H. S. Gordon. No. 967,366; Aug. 16; Sp. p. 3279; Gaz. vol. 157; p. 567.
Food-hopper. J. A. Jocoy. No. 954,968; Apr. 12; Sp. p. 2790; Gaz. vol. 153; p. 472.
Food, Making a cereal breakfast. H. Anhaltzer. No. 976,332; Nov. 22; Sp. p. 4974; Gaz. vol. 160; p. 847.
Food, Making malted. S. Felix. No. 968,841; Aug. 30; Sp. p. 6413; Gaz. vol. 157; p. 1117.
Food product. D. Finkler. No. 966,324; Aug. 2; Sp. p. 998; Gaz. vol. 157; p. 161.
Food product. J. L. Loose. No. 969,173; Sept. 6; Sp. p. 63; Gaz. vol. 158; p. 11.
Food product and making the same. B. S. Summers. No. 949,029; Feb. 15; Sp. p. 2646; Gaz. vol. 151; p. 471.
Food product from cereal sprouts, Manufacture of a. A. Nilson. No. 976,488; Nov. 22; Sp. p. 5329; Gaz. vol. 160; p. 903.
Food products, Apparatus for dehydrating. G. D. Harris. No. 959,933; May 31; Sp. p. 7588; Gaz. vol. 154; p. 1282.
Food products, Apparatus for preparing. H. L. Holt. No. 969,955; Sept. 13; Sp. p. 1746; Gaz. vol. 158; p. 300.
Food products, Container for. L. H. Baekeland. No. 957,137; May 3; Sp. p. 1352; Gaz. vol. 154; p. 216.
Food-warmer. F. C. Brown. No. 980,057; Dec. 27; Sp. p. 5711; Gaz. vol. 161; p. 982.
Foot and ankle-joint, Artificial. E. Mueller. No. 963,796; July 12; Sp. p. 1715; Gaz. vol. 156; p. 286.
Foot and leg rest. J. A. Gaertner. No. 971,437; Sept. 27; Sp. p. 4839; Gaz. vol. 158; p. 847.
Foot, Appliance for the support of the. A. E. Magoris. No. 947,113; Jan. 18; Sp. p. 4660; Gaz. vol. 150; p. 769.
Foot-arch, Device for obtaining a mold of the. J. H. Morton and W. H. Mannix. No. 964,119; July 12; Sp. p. 2406; Gaz. vol. 156; p. 395.
Foot, Artificial. J. F. Rowley. No. 951,149; Mar. 8; Sp. p. 1392; Gaz. vol. 152; p. 253.
Foot, Artificial. J. H. Bradley, E. and T. L. Nichol. No. 961,582; June 14; Sp. p. 2773; Gaz. vol. 155; p. 481.
Foot-guard. S. K. Dunkle. No. 945,501; Jan. 4; Sp. p. 1072; Gaz. vol. 150; p. 166.
Foot-guard. R. D. Culter. No. 949,649; Feb. 15; Sp. p. 3894; Gaz. vol. 151; p. 678.
Foot-guard. W. S. Newhall. No. 960,035; May 31; Sp. p. 7857; Gaz. vol. 154; p. 1319.
Foot-mat. J. O'Connell. No. 953,224; Mar. 29; Sp. p. 5687; Gaz. vol. 152; p. 1033.
Foot-power mechanism. T. C. Prouty. No. 953,397; Mar. 29; Sp. p. 6075; Gaz. vol. 152; p. 1091.
Foot, punch, and similar playing ball. J. Turner and A. Buxton. No. 964,888; July 19; Sp. p. 4126; Gaz. vol. 156; p. 687.
Foot-rest. L. E. Fitzsimons. No. 956,326; Apr. 26; Sp. p. 5731; Gaz. vol. 153; p. 997.
Foot-rest. C. E. Clarke. No. 956,681; May 3; Sp. p. 380; Gaz. vol. 154; p. 63.
Foot-rest. F. M. Maley. No. 969,551; Sept. 6; Sp. p. 862; Gaz. vol. 158; p. 136.
Foot-rest. J. Flindall. No. 972,073; Oct. 4; Sp. p. 1220; Gaz. vol. 159; p. 206.
Foot-rest. B. T. Neubecker. No. 972,217; Oct. 11; Sp. p. 1561; Gaz. vol. 159; p. 273.
Foot-rest and shoe-cleaning stand, Combined. W. A. Klausman. No. 978,037; Dec. 6; Sp. p. 1327; Gaz. vol. 161; p. 212.
Foot-rest chair. A. K. Christiansen. No. 961,715; June 14; Sp. p. 3035; Gaz. vol. 155; p. 526.

Alphabetical list of inventions—Continued.

Foot-support. A. D. French. No. 970,910; Sept. 20; Sp. p. 3785; Gaz. vol. 158; p. 646.
Foot-support. H. Cohen. No. 971,973; Oct. 4; Sp. p. 1032; Gaz. vol. 159; p. 172.
Footwear. M. M. West. No. 960,748; June 7; Sp. p. 1028; Gaz. vol. 155; p. 173.
Footwear. A. Müller. No. 970,381; Sept. 13; Sp. p. 2634; Gaz. vol. 158; p. 444.
Footwear-former. C. S. Huntington. No. 966,551; Aug. 9; Sp. p. 1546; Gaz. vol. 157; p. 264.
Footwear-mold. M. C. Clark. No. 962,697; June 28; Sp. p. 5203; Gaz. vol. 155; p. 908.
Footwear-stretcher. H. A. Halvorsen. No. 959,932; May 31; Sp. p. 7585; Gaz. vol. 154; p. 1281.
Force-drill, Portable. C. W. Wilson. No. 974,454; Nov. 1; Sp. p. 874; Gaz. vol. 160; p. 128.
Force-feed lubricator. E. Tilston. No. 948,192; Feb. 1; Sp. p. 841; Gaz. vol. 151; p. 138.
Force-feed lubricator. H. L. Davis. No. 958,994; May 24; Sp. p. 5606; Gaz. vol. 154; p. 942.
Forcing frame or inclosure for horticultural or other purposes. W. Cutler. No. 958,956; May 24; Sp. p. 5534; Gaz. vol. 154; p. 929.
Forge. T. J. Ward. No. 951,892; Mar. 15; Sp. p. 2922; Gaz. vol. 152; p. 529.
Forge, Automatically-operated. J. H. Dickey and W. Roach. No. 963,877; July 12; Sp. p. 1905; Gaz. vol. 156; p. 315.
Forging and cutting machine. J. Delzer. No. 953,737; Apr. 5; Sp. p. 112; Gaz. vol. 153; p. 22.
Forging-machine. G. Berglund. No. 947,960; Feb. 1; Sp. p. 379; Gaz. vol. 151; p. 61.
Forging-machine. G. H. Condict. No. 950,594; Mar. 1; Sp. p. 270; Gaz. vol. 152; p. 44.
Forging machine, Metal-. J. Fielding. No. 962,705; June 28; Sp. p. 5219; Gaz. vol. 155; p. 911.
Forging metal, Method of and apparatus for. E. E. Slick. No. 965,036; July 19; Sp. p. 4419; Gaz. vol. 156; p. 736.
Forging-press. T. F. Baily. No. 955,122; Apr. 19; Sp. p. 3075; Gaz. vol. 153; p. 553.
Forging press and hammer. E. H. Wray. No. 959,094; May 24; Sp. p. 5821; Gaz. vol. 154; p. 975.
Fork: *See* Bicycle-fork; Bicycle spring-fork; Grain-fork; Hay-fork; Manure-fork; Pitchfork; Potato-fork; Spring-fork.
Fork. A. O. Bonin and L. P. Beaulieau. No. 950,835; Mar. 1; Sp. p. 802; Gaz. vol. 152; p. 128.
Fork and scraper. J. Nichol. No. 952,345; Mar. 15; Sp. p. 3798; Gaz. vol. 152; p. 679.
Fork and shovel, Combination. H. C. Sumerlin. No. 969,307; Sept. 6; Sp. p. 323; Gaz. vol. 158; p. 53.
Fork handle, Hay-. G. Reynolds. No. 949,089; Feb. 15; Sp. p. 2757; Gaz. vol. 151; p. 490.
Form, Adjustable sleeve-. T. Mollberg. No. 979,023; Dec. 20; Sp. p. 3466; Gaz. vol. 161; p. 608.
Form, Collapsible. M. S. Jackson. No. 979,958; Dec. 27; Sp. p. 5490; Gaz. vol. 161; p. 949.
Form, Dress-. R. Rubin. No. 945,611; Jan. 4; Sp. p. 1290; Gaz. vol. 150; p. 201.
Form, Dress-. R. Rubin. No. 963,724; July 5; Sp. p. 1525; Gaz. vol. 156; p. 238.
Form, Dress-. C. L. Horton. No. 972,376; Oct. 11; Sp. p. 1866; Gaz. vol. 159; p. 327.
Form for garment-fitting, Model-. E. Van Dusen. No. 974,936; Nov. 8; Sp. p. 1945; Gaz. vol. 160; p. 321.
Form, Garment-. E. T. Palmenberg. No. 961,003; June 7; Sp. p. 1539; Gaz. vol. 155; p. 258.
Form, Garment-. C. H. Posner. No. 962,915; June 28; Sp. p. 5620; Gaz. vol. 155; p. 984.
Form, Garment-. I. Levin. No. 968,169; Aug. 23; Sp. p. 4991; Gaz. vol. 157; p. 860.
Form, Shoulder-presser. J. M. Stein. No. 952,377; Mar. 15; Sp. p. 3852; Gaz. vol. 152; p. 689.
Form, Skirt-. H. D. Shaiffer. No. 975,724; Nov. 15; Sp. p. 3651; Gaz. vol. 160; p. 615.
Forms, Making garment-. E. Kasralowicz. No. 967,132; Aug. 9; Sp. p. 2802; Gaz. vol. 157; p. 460.
Former. C. E. Taylor. No. 951,156; Mar. 8; Sp. p. 1403; Gaz. vol. 152; p. 255.
Forming implement. J. H. Gee and G. W. Coates. No. 968,548; Aug. 30; Sp. p. 5779; Gaz. vol. 157; p. 1018.
Forming-machine. G. H. Petri. No. 957,247; May 10; Sp. p. 1616; Gaz. vol. 154; p. 285.
Forming-machine. H. Schrader, Jr., and Z. P. Forster. No. 978,224; Dec. 13; Sp. p. 1745; Gaz. vol. 161; p. 307.
Formaldehyde, Apparatus for preparation of. E. Huwart. No. 961,721; June 14; Sp. p. 3043; Gaz. vol. 155; p. 527.
Formaldehyde, Generating. H. Schneider. No. 969,661; Sept. 6; Sp. p. 1083; Gaz. vol. 158; p. 173.
Formates and formic acid, Making. H. Howard. No. 970,825; Sept. 20; Sp. p. 3634; Gaz. vol. 158; p. 620.
Foundry-cores, Composition of matter for. C. A. Sleicher. No. 973,574; Oct. 25; Sp. p. 4530; Gaz. vol. 159; p. 791.
Foundry-flasks, Sand-retaining device for. A. Scrivenor. No. 947,261; Jan. 25; Sp. p. 4981; Gaz. vol. 150; p. 846.
Foundry plant. A. R. Price. No. 951,576; Mar. 8; Sp. p. 2258; Gaz. vol. 152; p. 392.
Foundry plant, Pipe-. F. Herbert. No. 972,108; Oct. 4; Sp. p. 1280; Gaz. vol. 159; p. 217.
Foundry plants, Bogie or truck for pipe-. F. Herbert. No. 966,546; Aug. 9; Sp. p. 1534; Gaz. vol. 157; p. 262.
Fountain: *See* Drinking-fountain; Fowl drinking-fountain; Illuminated fountain; Ink-fountain; Poultry-fountain; Poultry drinking-fountain; Printing-press inking-fountain; Stock-fountain.
Fountain. C. A. Dunlap. No. 949,267; Feb. 15; Sp. p. 3121; Gaz. vol. 151; p. 550.
Fountain-comb. G. M. Charles. No. 971,250; Sept. 27; Sp. p. 4504; Gaz. vol. 158; p. 788.
Fowl drinking-fountain. G. V. Sandle. No. 967,063; Aug. 9; Sp. p. 2648; Gaz. vol. 157; p. 435.
Fowl, Hardening feet and legs of. F. Jessee. No. 946,046; Jan. 11; Sp. p. 2305; Gaz. vol. 150; p. 382.
Frame: *See* Bag or purse frame; Bed-frame; Bed-spring-supporting frame; Bedstead canopy-frame; Bifocal testing-frame; Binder-frame; Brick-setting frame; Car-frame; Clock-frame; Clothes-drying frame; Copying-frame; Cot-frame; Cycle-frame; Display-frame; Door-frame; Door and window frame; Doubling-frame; Drying-frame; Eyeglass-frame; Fireproof window-frame; Forcing-frame; Grindstone-frame; Hacksaw-frame; Hair-frame; Heddle-frame; Lantern-frame; Locomotive-frame; Loom harness-frame; Mattress-frame; Mosquito-bar frame; Mosquito-net frame; Photographer's printing-frame; Photographic-printing frame; Photoprinting-frame; Piano key-frame; Picture-frame; Planter coupling-frame; Plow-frame; Pool and billiard table ball-frame; Printing-frame; Quilting-frame; Razor holder or frame; Retouching-frame; Screen-frame; Seat-frame; Side frame; Sink-frame; Spinning and twisting frame; Stencil-frame; Stretching-frame; Tent-frame; Threshing-machine frame; Tool-frame; Truck-frame; Truck side frame; Umbrella-frame; Vehicle-frame; Window-frame; Window and sash frame.
Frame-adjuster. C. Ehr. No. 948,849; Feb. 8; Sp. p. 2266; Gaz. vol. 151; p. 384.
Frame-hanger. H. H. and H. Shepard. No. 972,579; Oct. 11; Sp. p. 2340; Gaz. vol. 159; p. 400.
Frame-lock, Automatic. C. Merritt. No. 964,997; July 19; Sp. p. 4339; Gaz. vol. 156; p. 724.
Frames, Attachment for testing or treating. H. C. Hill. No. 955,333; Apr. 19; Sp. p. 3538; Gaz. vol. 153; p. 626.
Frames of every description, &c., Foundation for. A. von Rügen. No. 977,330; Nov. 29; Sp. p. 7150; Gaz. vol. 160; p. 1217.
Framing device. N. P. Park. No. 967,045; Aug. 9; Sp. p. 2623; Gaz. vol. 157; p. 429.
Freezer. G. F. Dickson. No. 952,030; Mar. 15; Sp. p. 3192; Gaz. vol. 152; p. 574.
Freezer. E. D. Sargent. No. 962,390; June 21; Sp. p. 4504; Gaz. vol. 155; p. 777.
Freezing, Apparatus for concentrating solutions by. E. Monti. No. 955,659; Apr. 19; Sp. p. 4255; Gaz. vol. 153; p. 736.
Freezing apparatus, Raw-water-. F. W. Haas. No. 980,152; Dec. 27; Sp. p. 5935; Gaz. vol. 161; p. 1013.
Freight-handling plant. M. B. Waterman. No. 966,275; Aug. 2; Sp. p. 912; Gaz. vol. 157; p. 146.
Frequency generator, Variable-. G. Faccioli. No. 949,320; Feb. 15; Sp. p. 3221; Gaz. vol. 151; p. 568.
Friction brake and clutch. W. C. Marsh. No. 947,683; Jan. 25; Sp. p. 5950; Gaz. vol. 150; p. 990.
Friction-coupling operated by a centrifugal device. W. Stuhldreier. No. 979,595; Dec. 27; Sp. p. 4708; Gaz. vol. 161; p. 827.
Friction-coupling with expanding locking member. J. Thiry. No. 970,573; Sept. 20; Sp. p. 3050; Gaz. vol. 158; p. 531.
Friction, Device for diminishing sliding. J. Krieger. No. 945,128; Jan. 4; Sp. p. 244; Gaz. vol. 150; p. 42.
Friction drive mechanism. O. P. Grau. No. 956,958; May 3; Sp. p. 1001; Gaz. vol. 154; p. 157.
Friction feed mechanism. M. Flather. No. 950,480; Mar. 1; Sp. p. 36; Gaz. vol. 152; p. 8.
Friction let-off. J. Fuller. No. 949,268; Feb. 15; Sp. p. 3123; Gaz. vol. 151; p. 550.
Fringe holder or rack. L. McGrath. No. 955,981; Apr. 26; Sp. p. 4967; Gaz. vol. 153; p. 878.
Fringe-making and embroidering device. H. Gurtler. No. 975,355; Nov. 8; Sp. p. 2869; Gaz. vol. 160; p. 463.
Fringes, Apparatus for the production of. E. Huebler. No. 970,055; Sept. 13; Sp. p. 1977; Gaz. vol. 158; p. 335.
Frog. G. W. Thompson. No. 956,447; Apr. 26; Sp. p. 5984; Gaz. vol. 153; p. 1039.
Frog, Guarded. R. P. Delaney. No. 968,837; Aug. 30; Sp. p. 6403; Gaz. vol. 157; p. 1116.
Frog-point. M. M. Tawney. No. 979,048; Dec. 20; Sp. p. 3524; Gaz. vol. 161; p. 616.
Frogless switch. S. Miller. No. 952,460; Mar. 22; Sp. p. 4032; Gaz. vol. 152; p. 746.
Frogless switch. J. J. Newman. No. 956,992; May 3; Sp. p. 1071; Gaz. vol. 154; p. 168.
Front-end arrangement. J. F. and H. M. Brown. No. 958,720; May 24; Sp. p. 4993; Gaz. vol. 154; p. 845.
Frost-preventing apparatus. J. P. Bolton. No. 979,370; Dec. 20; Sp. p. 4213; Gaz. vol. 161; p. 726.
Fruit and other plastic objects, Manufacturing artificial. F. Hamel. No. 976,359; Nov. 22; Sp. p. 5049; Gaz. vol. 160; p. 857.
Fruit and vegetable mill. J. Koerner. No. 967,393; Aug. 16; Sp. p. 3345; Gaz. vol. 157; p. 577.

Fruit and vegetable stand and rotary or turbine sprayer. E. Gardner. No. 953,676; Mar. 29; Sp. p. 6670; Gaz. vol. 152; p. 1188.
Fruit-box, Collapsible. W. H. Brenner. No. 952,302; Mar. 15; Sp. p. 3717; Gaz. vol. 152; p. 665.
Fruit-box-lid press. A. V. Platt and W. B. Harlan. No. 970,547; Sept. 20; Sp. p. 2997; Gaz. vol. 158; p. 522.
Fruit-box press. L. M. Cox. No. 963,521; July 5; Sp. p. 1123; Gaz. vol. 156; p. 171.
Fruit-case. J. A. Hilliker. No. 973,429; Oct. 18; Sp. p. 4225; Gaz. vol. 159; p. 720.
Fruit-cleaner. L. B. Skinner. No. 967,680; Aug. 16; Sp. p. 3913; Gaz. vol. 157; p. 671.
Fruit cleaner and grader. H. K. Rowland and L. H. Larsen. No. 972,026; Oct. 4; Sp. p. 1133; Gaz. vol. 159; p. 190.
Fruit cleaner and grader. I. W. Peck. No. 975,452; Nov. 15; Sp. p. 3063; Gaz. vol. 160; p. 524.
Fruit-conveyer. H. D. Gordon. No. 967,365; Aug. 16; Sp. p. 3275; Gaz. vol. 157; p. 567.
Fruit-conveyer. H. Hammond. No. 976,871; Nov. 29; Sp. p. 6137; Gaz. vol. 160; p. 1058.
Fruit-cutter. F. Hampel. No. 951,241; Mar. 8; Sp. p. 1567; Gaz. vol. 152; p. 281.
Fruit-gatherer. J. W. Drepperd. No. 946,424; Jan. 11; Sp. p. 3193; Gaz. vol. 150; p. 514.
Fruit-gatherer. T. Branch. No. 948,465; Feb. 8; Sp. p. 1432; Gaz. vol. 151; p. 256.
Fruit-gatherer. M. C. Nickell. No. 948,579; Feb. 8; Sp. p. 1685; Gaz. vol. 151; p. 294.
Fruit-gatherer. R. Fountain. No. 959,332; May 24; Sp. p. 6304; Gaz. vol. 154; p. 1054.
Fruit-gathering vessel. J. H. Ogburn. No. 953,009; Mar. 22; Sp. p. 5209; Gaz. vol. 152; p. 934.
Fruit grading and cleaning device. H. K. Rowland and L. H. Larsen. No. 956,426; Apr. 26; Sp. p. 5927; Gaz. vol. 153; p. 1031.
Fruit-jar. G. W. Druhe. No. 970,896; Sept. 20; Sp. p. 3765; Gaz. vol. 158; p. 642.
Fruit-juices, Concentrating. R. Oehme. No. 950,950; Mar. 1; Sp. p. 1023; Gaz. vol. 152; p. 163.
Fruit-mixing machine. B. F. Fish. No. 959,726; May 31; Sp. p. 7125; Gaz. vol. 154; p. 1210.
Fruit-packer's table. F. Rathbun. No. 968,412; Aug. 23; Sp. p. 5481; Gaz. vol. 157; p. 944.
Fruit-picker. E. Schultz. No. 945,290; Jan. 4; Sp. p. 588; Gaz. vol. 150; p. 97.
Fruit-picker. W. A. Johnson. No. 964,108; July 12; Sp. p. 2383; Gaz. vol. 156; p. 391.
Fruit-picker. M. J. Keating. No. 964,788; July 19; Sp. p. 3926; Gaz. vol. 156; p. 652.
Fruit-picker. E. M. Hansley and H. Will. No. 971,005; Sept. 20; Sp. p. 3958; Gaz. vol. 158; p. 677.
Fruit-picker. S. J. Mays. No. 971,547; Oct. 4; Sp. p. 81; Gaz. vol. 159; p. 16.
Fruit-picker. A. J. Petertyl. No. 971,925; Oct. 4; Sp. p. 889; Gaz. vol. 159; p. 153.
Fruit-picker. H. L. Mosier. No. 972,900; Oct. 18; Sp. p. 3052; Gaz. vol. 159; p. 537.
Fruit-picker. A. P. Wells. No. 978,683; Dec. 13; Sp. p. 2742; Gaz. vol. 161; p. 467.
Fruit-picker. L. Thorstenberg. No. 978,791; Dec. 13; Sp. p. 2962; Gaz. vol. 161; p. 501.
Fruit-picker. A. H. Bastian. No. 980,045; Dec. 27; Sp. p. 5679; Gaz. vol. 161; p. 978.
Fruit-picker's bag. E. J. Mason. No. 949,024; Feb. 15; Sp. p. 2639; Gaz. vol. 151; p. 470.
Fruit-picker's platform. A. R. Mercer. No. 967,803; Aug. 16; Sp. p. 4163; Gaz. vol. 157; p. 713.
Fruit-picker's receptacle. J. S. Barnett. No. 978,429; Dec. 13; Sp. p. 2188; Gaz. vol. 161; p. 379.
Fruit-picking bag. F. W. Burch. No 960,809; June 7; Sp. p. 1158; Gaz. vol. 155; p. 193.
Fruit-picking bag. F. J. Burch. No. 967,881; Aug. 23; Sp. p. 4327; Gaz. vol. 157; p. 763.
Fruit-press. S. E. Warren. No. 950,523; Mar. 1; Sp. p. 135; Gaz. vol. 152; p. 22.
Fruit-press. T. P. Maddox. No. 960,102; May 31; Sp. p. 7974; Gaz. vol. 154; p. 1340.
Fruit sizer and grader. G. D. Parker. No. 958,164; May 17; Sp. p. 3740; Gaz. vol. 154; p. 632.
Fruit-stand. C. Müller and H. Reis. No. 973,125; Oct. 18; Sp. p. 3546; Gaz. vol. 159; p. 614.
Fruit, syrups, or the like, Receptacle for dispensing crushed. L. A. Becker. No. 952,409; Mar. 15; Sp. p. 3918; Gaz. vol. 152; p. 701.
Fruit-treating apparatus, Dried-. I. S. Merrell. No. 969,969; Sept. 13; Sp. p. 1791; Gaz. vol. 158; p. 304.
Fruit-treating machine. W. H. Noland. No. 950,753; Mar. 1; Sp. p. 628; Gaz. vol. 152; p. 101.
Fruit-washing machine. J. F. Haller. No. 952,734; Mar. 22; Sp. p. 4638; Gaz. vol. 152; p. 841.
Fryer, Doughnut-. B. W. Forgue. No. 955,507; Apr. 19; Sp. p. 3902; Gaz. vol. 153; p. 685.
Fuel. A. B. Hill. No. 958,920; May 24; Sp. p. 5473; Gaz. vol. 154; p. 917.
Fuel. J. Jowett. No. 964,523; July 19; Sp. p. 3246; Gaz. vol. 156; p. 560.
Fuel and making the same, Artificial. C. F. Bonhack. No. 948,812; Feb. 8; Sp. p. 2197; Gaz. vol. 151; p. 373.
Fuel, Apparatus for burning powdered. H. R. Barnhurst. No. 961,671; June 14; Sp. p. 2954; Gaz. vol. 155; p. 510.
Fuel, Artificial. P. Grayson. No. 961,608; June 14; Sp. p. 2830; Gaz. vol. 155; p. 490.
Fuel-blocks, Manufacture of. E. Trainer. No. 974,001; Oct. 25; Sp. p. 5431; Gaz. vol. 159; p. 941.
Fuel-briquet. D. C. McCan. No. 956,901; May 3; Sp. p. 874; Gaz. vol. 154; p. 139.
Fuel-briquet. D. C. McCan. No. 959,870; May 31; Sp. p. 7450; Gaz. vol. 154; p. 1260.
Fuel-briquet. D. C. McCan. No. 978,182; Dec. 13; Sp. p. 1668; Gaz. vol. 161; p. 293.
Fuel-briquet and making same. M. and G. Salomon. No. 965,541; July 26; Sp. p. 5515; Gaz. vol. 156; p. 939.
Fuel-briquets, Making. E. Bonstein. No. 965,069; July 19; Sp. p. 4490; Gaz. vol. 156; p. 747.
Fuel-briquets, Manufacture of. W. F. Collins. No. 960,509; June 7; Sp. p. 546; Gaz. vol. 155; p. 90.
Fuel, Burning powdered. H. R. Barnhurst. No. 961,672; June 14; Sp. p. 2956; Gaz. vol. 155; p. 511.
Fuel-economizer. E. R. Phillips. No. 957,173; May 3; Sp. p. 1432; Gaz. vol. 154; p. 229.
Fuel, Gasifying, igniting, and controlling the combustion of. W. Remington. No. 951,093; Mar. 1; Sp. p. 1270; Gaz. vol. 152; p. 209.
Fuel, Machine for forming artificial pressed. I. Foreman and J. L. Thornton. No. 949,176; Feb. 15; Sp. p. 2931; Gaz. vol. 151; p. 519.
Fuel, Manufacture of. T. Parker. No. 947,400; Jan. 25; Sp. p. 5330; Gaz. vol. 150; p. 895.
Fuel, Manufacture of artificial. A. W. H. Vivian, G. L. Davies, and L. Grote. No. 967,863; Aug. 16; Sp. p. 4286; Gaz. vol. 157; p. 733.
Fuel, Means for feeding fluid. T. Turnbull, Jr. No. 960,057; May 31; Sp. p. 7900; Gaz. vol. 154; p. 1326.
Fuel, Mechanism for feeding. A. F. Rockwell. No. 962,248; June 21; Sp. p. 4203; Gaz. vol. 155; p. 730.
Fuel-mixer. A. Schmidt. No. 977,229; Nov. 29; Sp. p. 6958; Gaz. vol. 160; p. 1183.
Fuel-press. D. C. McCan. No. 956,902; May 3; Sp. p. 876; Gaz. vol. 154; p. 139.
Fuel-press. D. C. McCan. No. 962,716; June 28; Sp. p. 5241; Gaz. vol. 155; p. 915.
Fuel, Production of. T. Parker. No. 958,761; May 24; Sp. p. 5089; Gaz. vol. 154; p. 860.
Fuel, Treating. A. G. Maul. No. 949,326; Feb. 15; Sp. p. 3237; Gaz. vol. 151; p. 570.
Fulcrum-block. H. J. Cox and S. J. Gallagher. No. 946,496; Jan. 11; Sp. p. 3349; Gaz. vol. 150; p. 538.
Fuller's earth, Utilizing spent. N. Sulzberger. No. 968,092; Aug. 23; Sp. p. 4801; Gaz. vol. 157; p. 834.
Fume-arrester. H. Howard. (Reissue.) No. 13,090; Mar. 8; Sp. p. 2700; Gaz. vol. 152; p. 466.
Fume-arrester. C. C. Whitmore. No. 952,970; Mar. 22; Sp. p. 5127; Gaz. vol. 152; p. 921.
Fume-arrester and smoke-purifier. W. F. Parsons. No. 972,637; Oct. 11; Sp. p. 2469; Gaz. vol. 159; p. 420.
Fume-producing device. P. H. Cherry. No. 978,561; Dec. 13; Sp. p. 2490; Gaz. vol. 161; p. 425.
Fumigating apparatus. C. De Pree, A. Leenhouts, and J. J. Mersen. No. 973,634; Oct. 25; Sp. p. 4669; Gaz. vol. 159; p. 812.
Fumigating attachment. E. L. B. Zimmer. No. 947,726; Jan. 25; Sp. p. 6028; Gaz. vol. 150; p. 1004.
Fumigator. W. J. Shelton. No. 971,570; Oct. 4; Sp. p. 131; Gaz. vol. 159; p. 24.
Fumigator. J. C. Kemball. No. 976,266; Nov. 22; Sp. p. 4845; Gaz. vol. 160; p. 827.
Fumigator. O. Immermann. No. 977,312; Nov. 29; Sp. p. 7116; Gaz. vol. 160; p. 1211.
Funnel. F. G. Kollenberg. No. 947,917; Feb. 1; Sp. p. 285; Gaz. vol. 151; p. 48.
Funnel. J. E. W. and C. E. Richards. No. 951,843; Mar. 15; Sp. p. 2812; Gaz. vol. 152; p. 513.
Funnel. J. R. Smith. No. 953,065; Mar. 29; Sp. p. 5337; Gaz. vol. 152; p. 982.
Funnel. R. L. Best. No. 954,161; Apr. 5; Sp. p. 989; Gaz. vol. 153; p. 167.
Funnel. L. N. Ritten. No. 955,553; Apr. 19; Sp. p. 4001; Gaz. vol. 153; p. 701.
Funnel. C. J. Wilson. No. 971,233; Sept. 27; Sp. p. 4466; Gaz. vol. 158; p. 782.
Funnel. W. E. Crane. No. 977,372; Nov. 29; Sp. p. 7262; Gaz. vol. 160; p. 1233.
Funnel. J. Mathis. No. 977,414; Nov. 29; Sp. p. 7372; Gaz. vol. 160; p. 1246.
Funnel. C. J. Squires. No. 979,807; Dec. 27; Sp. p. 5184; Gaz. vol. 161; p. 899.
Funnel. P. Anderson. No. 979,819; Dec. 27; Sp. p. 5207; Gaz. vol. 161; p. 903.
Funnel and measure, Combined. W. R. Hickox. No. 949,074; Feb. 15; Sp. p. 2727; Gaz. vol. 151; p. 485.
Funnel, Indicator-. C. F. Sendall. No. 962,674; June 28; Sp. p. 5144; Gaz. vol. 155; p. 900.
Funnel, Measuring-. J. B. Romero. No. 954,346; Apr. 5; Sp. p. 1388; Gaz. vol. 153; p. 230.
Funnel, Stop-. A. J. Fajen and E. M. Deiller. No. 967,356; Aug. 16; Sp. p. 3250; Gaz. vol. 157; p. 564.
Fur-beating machine. R. Mueller. No. 962,236; June 21; Sp. p. 4177; Gaz. vol. 155; p. 726.

Alphabetical list of inventions—Continued.

Fur, Manufacturing imitation. A. Hentschel. No. 979,298; Dec. 20; Sp. p. 4089; Gaz. vol. 161; p. 704.
Fur-stretcher. W. A. Scott. No. 962,391; June 21; Sp. p. 4507; Gaz. vol. 155; p. 778.
Fur-treating device. M. Whitlatch. No. 956,247; Apr. 26; Sp. p. 5562; Gaz. vol. 153; p. 970.
Furs or skins, Device for stretching. R. H. Bullis. No. 971,969; Oct. 4; Sp. p. 1026; Gaz. vol. 159; p. 171.
Furnace: *See* Annealing-furnace; Blast-furnace; Boiler-furnace; Bone-black furnace; Brick-kiln furnace; Chain-grate furnace; Coke-furnace; Combination-furnace; Crucible-furnace; Dross-furnace; Electric furnace; Electric induction-furnace; Electrometallurgical furnace; Fireplace-furnace; Garbage-furnace; Gas-furnace; Gas and coal furnace; Gas-producing furnace; Gas-retort furnace; Glass-furnace; Glass-drawing furnace; Glass-heating furnace; Grate-furnace; Heating-furnace; Horizontal furnace; Hot-air furnace; Hot-water furnace; Hydrocarbon-furnace; Igniting-furnace; Incinerating-furnace; Indicator-furnace; Induction-furnace; Iron-refining furnace; Locomotive-furnace; Mechanic's furnace; Melting-furnace; Metal-furnace; Metal-melting furnace; Metallurgical furnace; Oil or gas furnace; Oil-burning furnace; Open-hearth furnace; Ore-furnace; Ore-roasting furnace; Regenerative furnace; Regenerative reverberatory furnace; Regenerative reversing-furnace; Retort-furnace; Reverberatory furnace; Revolving furnace; Roasting-furnace; Rotary furnace; Rotating furnace; Sintering-furnace; Smelting-furnace; Smoke-consuming furnace; Soil-sterilizing furnace; Soldering-iron furnace; Straw-burning furnace; Sulfur-burning furnace; Thawing-furnace; Tipping furnace; Transformer-furnace; Twyer-furnace; Vacuum resistance-furnace; Warm-air furnace.
Furnace. A. Schmidt. No. 945,869; Jan. 11; Sp. p. 1927; Gaz. vol. 150; p. 320.
Furnace. R. H. Vondenbosch. No. 945,994; Jan. 11; Sp. p. 2200; Gaz. vol. 150; p. 365.
Furnace. U. Wedge. No. 946,178; Jan. 11; Sp. p. 2576; Gaz. vol. 150; p. 428.
Furnace. F. E. Swift. No. 949,783; Feb. 22; Sp. p. 4191; Gaz. vol. 151; p. 757.
Furnace. J. Thomson and F. A. J. Fitz Gerald. No. 950,878; Mar. 1; Sp. p. 876; Gaz. vol. 152; p. 141.
Furnace. W. A. Norton. No. 952,047; Mar. 15; Sp. p. 3222; Gaz. vol. 152; p. 580.
Furnace. V. H. Hobson. No. 952,431; Mar. 15; Sp. p. 3956; Gaz. vol. 152; p. 708.
Furnace. H. A. Poppenhusen. No. 953,396; Mar. 29; Sp. p. 6072; Gaz. vol. 152; p. 1091.
Furnace. L. B. Piper. No. 955,199; Apr. 19; Sp. p. 3243; Gaz. vol. 153; p. 581.
Furnace. H. A. MacClyment. No. 955,340; Apr. 19; Sp. p. 3554; Gaz. vol. 153; p. 628.
Furnace. W. G. Crosthwaite. No. 955,387; Apr. 19; Sp. p. 3661; Gaz. vol. 153; p. 644.
Furnace. J. W. Hays. No. 957,158; May 3; Sp. p. 1396; Gaz. vol. 154; p. 224.
Furnace. A. Fisher. No. 957,873; May 17; Sp. p. 2913; Gaz. vol. 154; p. 527.
Furnace. W. H. Perkins. No. 958,763; May 24; Sp. p. 5091; Gaz. vol. 154; p. 860.
Furnace. J. M. Brooks. No. 958,903; May 24; Sp. p. 5441; Gaz. vol. 154; p. 911.
Furnace. H. J. Hough and J. B. Crowl. No. 959,141; May 24; Sp. p. 5913; Gaz. vol. 154; p. 990.
Furnace. J. A. Penney. No. 959,253; May 24; Sp. p. 6149; Gaz. vol. 154; p. 1027.
Furnace. J. Weintz. No. 959,980; May 31; Sp. p. 7705; Gaz. vol. 154; p. 1298.
Furnace. J. Weintz. No. 960,463; June 7; Sp. p. 440; Gaz. vol. 155; p. 75.
Furnace. H. N. Leask. No. 960,969; June 7; Sp. p. 1458; Gaz. vol. 155; p. 245.
Furnace. H. Strand. No. 962,677; June 28; Sp. p. 5148; Gaz. vol. 155; p. 900.
Furnace. A. A. E. Sterzing. No. 963,088; July 5; Sp. p. 122; Gaz. vol. 156; p. 22.
Furnace. C. S. Drummond. No. 964,502; July 19; Sp. p. 3198; Gaz. vol. 156; p. 553.
Furnace. H. Kurtenacker. No. 964,656; July 19; Sp. p. 3543; Gaz. vol. 156; p. 606.
Furnace. J. H. Laux. No. 965,914; Aug. 2; Sp. p. 140; Gaz. vol. 157; p. 24.
Furnace. J. Harrigan. No. 966,200; Aug. 2; Sp. p. 769; Gaz. vol. 157; p. 122.
Furnace. C. Nordell. No. 966,233; Aug. 2; Sp. p. 840; Gaz. vol. 157; p. 133.
Furnace. A. Arthur. No. 967,876; Aug. 23; Sp. p. 4315; Gaz. vol. 157; p. 761.
Furnace. J. B. Ladd and D. Baker. No. 968,485; Aug. 23; Sp. p. 5617; Gaz. vol. 157; p. 970.
Furnace. M. D. Hoff and A. J. McCabe. No. 969,279; Sept. 6; Sp. p. 270; Gaz. vol. 158; p. 44.
Furnace. C. A. Carleton. No. 969,745; Sept. 6; Sp. p. 1275; Gaz. vol. 158; p. 204.
Furnace. M. Blanchard. No. 970,417; Sept. 13; Sp. p. 2698; Gaz. vol. 158; p. 456.
Furnace. J. Donald and T. F. Downey. No. 970,805; Sept. 20; Sp. p. 3586; Gaz. vol. 158; p. 613.
Furnace. P. Stipp. No. 971,416; Sept. 27; Sp. p. 4801; Gaz. vol. 158; p. 840.
Furnace. W. H. McGuire. No. 971,548; Oct. 4; Sp. p. 82; Gaz. vol. 159; p. 16.
Furnace. E. Katzinger. No. 972,112; Oct. 4; Sp. p. 1292; Gaz. vol. 159; p. 218.
Furnace. H. Haas. No. 973,273; Oct. 18; Sp. p. 3891; Gaz. vol. 159; p. 666.
Furnace. G. R. Haigh and J. R. Fortune. No. 973,652; Oct. 25; Sp. p. 4711; Gaz. vol. 159; p. 819.
Furnace. J. Promenshenkel and R. Freeman. No. 973,879; Oct. 25; Sp. p. 5174; Gaz. vol. 159; p. 899.
Furnace. L. L. Knox. No. 973,943; Oct. 25; Sp. p. 5300; Gaz. vol. 159; p. 920.
Furnace. E. C. Carter. No. 974,120; Nov. 1; Sp. p. 26; Gaz. vol. 160; p. 7.
Furnace. E. Katzinger. No. 975,531; Nov. 15; Sp. p. 3251; Gaz. vol. 160; p. 552.
Furnace. H. A. Poppenhausen and J. Harrington. (Reissue.) No. 13,168; Nov. 15; Sp. p. 4498; Gaz. vol. 160; p. 759.
Furnace. J. B. Bartick. No. 976,249; Nov. 22; Sp. p. 4801; Gaz. vol. 160; p. 820.
Furnace. B. L. Worthen. No. 977,249; Nov. 29; Sp. p. 7002; Gaz. vol. 160; p. 1190.
Furnace. W. J. Murphy and A. E. Culley. No. 978,621; Dec. 13; Sp. p. 2618; Gaz. vol. 161; p. 446.
Furnace. J. R. Fortune. No. 979,661; Dec. 27; Sp. p. 4845; Gaz. vol. 161; p. 850.
Furnace-arch. W. McClave. No. 978,917; Dec. 20; Sp. p. 3210; Gaz. vol. 161; p. 570.
Furnace-arch construction. C. Campbell. No. 957,494; May 10; Sp. p. 2135; Gaz. vol. 154; p. 369.
Furnace-arch construction. P. Isles. No. 958,130; May 17; Sp. p. 3673; Gaz. vol. 154; p. 619.
Furnace attachment. C. R. Kline. No. 962,152; June 21; Sp. p. 4018; Gaz. vol. 155; p. 698.
Furnace-burner. M. Fall. No. 964,902; July 19; Sp. p. 4160; Gaz. vol. 156; p. 693.
Furnace-casing. W. F. Hansen. No. 971,269; Sept. 27; Sp. p. 4533; Gaz. vol. 158; p. 793.
Furnace-charging apparatus. A. C. Clark. No. 951,304; Mar. 8; Sp. p. 1711; Gaz. vol. 152; p. 302.
Furnace-charging apparatus, Blast-. R. H. Rogers. No. 949,403; Feb. 15; Sp. p. 3425; Gaz. vol. 151; p. 598.
Furnace-charging apparatus, Blast-. W. Kennedy. No. 955,885; Apr. 26; Sp. p. 4770; Gaz. vol. 153; p. 844.
Furnace-charging apparatus, Blast-. G. L. Collord. No. 967,328; Aug. 16; Sp. p. 3196; Gaz. vol. 157; p. 554.
Furnace-charging apparatus, Blast-. G. L. Collord. No. 967,329; Aug. 16; Sp. p. 3198; Gaz. vol. 157; p. 554.
Furnace-charging device, Blast-. C. P. Turner. No. 947,136; Jan. 18; Sp. p. 4694; Gaz. vol. 150; p. 775.
Furnace-charging device, Blast-. C. P. Turner. No. 947,206; Jan. 18; Sp. p. 4845; Gaz. vol. 150; p. 799.
Furnace cleavage-bar. H. S. Wells and J. R. Fortune. No. 966,724; Aug. 9; Sp. p. 1907; Gaz. vol. 157; p. 322.
Furnace construction. S. D. Oliphant. No. 949,402; Feb. 15; Sp. p. 3424; Gaz. vol. 151; p. 598.
Furnace-cooling apparatus, Blast-. J. Kennedy. No. 970,376; Sept. 13; Sp. p. 2626; Gaz. vol. 158; p. 442.
Furnace-cooling jacket. J. Lawson. No. 951,647; Mar. 8; Sp. p. 2401; Gaz. vol. 152; p. 416.
Furnace cover, Crucible-. J. L. R. Brown. No. 975,506; Nov. 15; Sp. p. 3184; Gaz. vol. 160; p. 542.
Furnace-deflector. M. Green. No. 969,752; Sept. 6; Sp. p. 1291; Gaz. vol. 158; p. 207.
Furnace-door. C. J. F. Johnson. No. 967,927; Aug. 23; Sp. p. 4425; Gaz. vol. 157; p. 779.
Furnace-door. G. O'Neill. No. 970,347; Sept. 13; Sp. p. 2562; Gaz. vol. 158; p. 432.
Furnace-door. G. de Grahl. No. 971,266; Sept. 27; Sp. p. 4528; Gaz. vol. 158; p. 792.
Furnace-door. J. Robinson. No. 975,892; Nov. 15; Sp. p. 3993; Gaz. vol. 160; p. 673.
Furnace door, Boiler-. M. C. Hawley. No. 945,943; Jan. 11; Sp. p. 2089; Gaz. vol. 150; p. 348.
Furnace-door opener. W. J. Rohan. No. 967,565; Aug. 16; Sp. p. 3689; Gaz. vol. 157; p. 635.
Furnace-door-operating device. O. M. Gossett. No. 947,903; Feb. 1; Sp. p. 265; Gaz. vol. 151; p. 44.
Furnace-door-operating mechanism. G. H. Gregory. No. 962,339; June 21; Sp. p. 4416; Gaz. vol. 155; p. 761.
Furnace-door-operating mechanism. S. D. Rosenfelt and H. Helmholtz. No. 966,601; Aug. 9; Sp. p. 1652; Gaz. vol. 157; p. 282.
Furnace-doors, Door-arch for. C. E. Brown. No. 947,033; Jan. 18; Sp. p. 4520; Gaz. vol. 150; p. 744.
Furnace draft-regulating device. W. P. Hall. No. 965,815; July 26; Sp. p. 6091; Gaz. vol. 156; p. 1033.
Furnace draft-regulator. A. F. Lewis. No. 977,663; Dec. 6; Sp. p. 550; Gaz. vol. 161; p. 83.
Furnace-feeder. L. P. Bolander. No. 957,184; May 10; Sp. p. 1471; Gaz. vol. 154; p. 262.
Furnace fire-door. G. H. Gregory. No. 948,218; Feb. 1; Sp. p. 897; Gaz. vol. 151; p. 147.
Furnace for burning blast-furnace gases. H. E. Parson. No. 958,429; May 17; Sp. p. 4422; Gaz. vol. 154; p. 724.
Furnace for heating metal bars. W. J. Mack. No. 954,315; Apr. 5; Sp. p. 1317; Gaz. vol. 153; p. 218.

Furnace for heating old tinned sheet-iron boxes, &c., to render them suitable to be detinned. K. Goldschmidt and J. Weber. No. 978,018; Dec. 6; Sp. p. 1287; Gaz. vol. 161; p. 206.
Furnace for heating steel cutters, &c. S. N. Brayshaw. No. 977,778; Dec. 6; Sp. p. 788; Gaz. vol. 161; p. 123.
Furnace for melting metals and for like purposes. J. C. Barker. No. 498,126; Feb. 1; Sp. p. 714; Gaz. vol. 151; p. 117.
Furnace for reducing metallic oxids. C. M. Johnson. No. 964,871; July 19; Sp. p. 4090; Gaz. vol. 156; p. 681.
Furnace for refuse-destructors. F. P. Rudder. No. 973,386; Oct. 18; Sp. p. 4133; Gaz. vol. 159; p. 705.
Furnace for the production of cast iron and steel. F. Resinelli. No. 975,998; Nov. 15; Sp. p. 4191; Gaz. vol. 160; p. 710.
Furnace-grate. H. C. Chamberlin. No. 946,488; Jan. 11; Sp. p. 3331; Gaz. vol. 150; p. 535.
Furnace-grate. T. Dawson. No. 956,517; May 3; Sp. p. 19; Gaz. vol. 154; p. 6.
Furnace-grate. H. A. Poppenhusen. No. 961,528; June 14; Sp. p. 2660; Gaz. vol. 155; p. 463.
Furnace-grate. A. Baillot and A. Ménager. No. 971,104; Sept. 27; Sp. p. 4187; Gaz. vol. 158; p. 739.
Furnace-grate. J. F. Curneen. No. 973,481; Oct. 25; Sp. p. 4334; Gaz. vol. 159; p. 760.
Furnace-grate. J. J. Merrill. No. 974,902; Nov. 8; Sp. p. 1857; Gaz. vol. 160; p. 309.
Furnace-grate. G. Minion. No. 979,783; Dec. 27; Sp. p. 5118; Gaz. vol. 161; p. 890.
Furnace-grate and fire-bar. R. Campbell. No. 953,514; Mar. 29; Sp. p. 6322; Gaz. vol. 152; p. 1133.
Furnace grate-bar. E. L. Thomas. No. 949,639; Feb. 15; Sp. p. 3879; Gaz. vol. 151; p. 676.
Furnace grate, Forced-draft-. W. H. Palmer. No. 958,971; May 24; Sp. p. 5560; Gaz. vol. 154; p. 934.
Furnace-grate, Hollow metal. T. J. Walton. No. 964,344; July 12; Sp. p. 2854; Gaz. vol. 156; p. 470.
Furnace-grate, Rocking-bar. E. T. McHugh. No. 972,707; Oct. 11; Sp. p. 2599; Gaz. vol. 159; p. 443.
Furnace-head for gas-furnaces with changing direction of flames. B. Versen. No. 975,738; Nov. 15; Sp. p. 3686; Gaz. vol. 160; p. 621.
Furnace-heat-conductor pipe. C. J. Holub. No. 975,360; Nov. 8; Sp. p. 2876; Gaz. vol. 160; p. 464.
Furnace heating and ventilating, Fresh-air injector for. O. Nelson. No. 954,989; Apr. 12; Sp. p. 2823; Gaz. vol. 153; p. 479.
Furnace-regulator. J. A. Kees. No. 945,785; Jan. 11; Sp. p. 1726; Gaz. vol. 150; p. 290.
Furnace-regulator. O. F. Lawrence. No. 954,036; Apr. 5; Sp. p. 712; Gaz. vol. 153; p. 125.
Furnace-regulator. A. L. Goodenow. No. 961,226; June 14; Sp. p. 2000; Gaz. vol. 155; p. 361.
Furnace-regulator. A. Stewart. No. 969,669; Sept. 6; Sp. p. 1096; Gaz. vol. 158; p. 176.
Furnace-regulator adjusting means. J. P. Dresp. No. 945,766; Jan. 11; Sp. p. 1689; Gaz. vol. 150; p. 283.
Furnace-regulator, Thermo-electric. J. H. Bobbitt. No. 962,884; June 28; Sp. p. 5571; Gaz. vol. 155; p. 975.
Furnace structure. J. Eggins. No. 975,754; Nov. 15; Sp. p. 3715; Gaz. vol. 160; p. 627.
Furnaces and converters, Apparatus for extracting moisture from air for blast-. J. Gayley. No. 953,525; Mar. 29; Sp. p. 6351; Gaz. vol. 152; p. 1137.
Furnaces, Apparatus for charging the retorts of zinc and other analogous. E. Dor-Delattre. No. 969,254; Sept. 6; Sp. p. 226; Gaz. vol. 158; p. 37.
Furnaces, Automatic draft-regulator for. H. F. Westphal. No. 945,831; Jan. 11; Sp. p. 1837; Gaz. vol. 150; p. 307.
Furnaces, Automatic fuel-feed mechanism for. G. Dinkel. No. 970,191; Sept. 13; Sp. p. 2235; Gaz. vol. 158; p. 380.
Furnaces, Automatic fuel-feed mechanism for. G. Dinkel. No. 970,432; Sept. 13; Sp. p. 2724; Gaz. vol. 158; p. 460.
Furnaces, Blast-pipe for blast-. S. B. Shutts and W. McHugh. No. 946,404; Jan. 11; Sp. p. 3155; Gaz. vol. 150; p. 507.
Furnaces, Charging blast-. T. McDonald and J. C. Barrett. No. 951,144; Mar. 8; Sp. p. 1382; Gaz. vol. 152; p. 251.
Furnaces, Charging electric-resistance. A. Petersson. No. 971,782; Oct. 4; Sp. p. 569; Gaz. vol. 159; p. 99.
Furnaces, Controlling combustion-. G. Bruce. No. 945,443; Jan. 4; Sp. p. 939; Gaz. vol. 150; p. 147.
Furnaces, Crown or cover of electric. P. Girod. No. 956,699; May 3; Sp. p. 437; Gaz. vol. 154; p. 69.
Furnaces, Dust-preventing ore-dropping apparatus and the like for roasting-. T. Edwards. No. 979,937; Dec. 27; Sp. p. 5450; Gaz. vol. 161; p. 942.
Furnaces, Feeding device for reverberatory. S. R. Garr. No. 961,768; June 21; Sp. p. 3163; Gaz. vol. 155; p. 568.
Furnaces, Feeding mixed fuels to. A. S. Mann. No. 952,266; Mar. 15; Sp. p. 3633; Gaz. vol. 152; p. 653.
Furnaces, Flue-strip for boiler and other. A. E. Pfahler. No. 945,590; Jan. 4; Sp. p. 1255; Gaz. vol. 150; p. 195.
Furnaces, Gas and air valve for open-hearth. J. L. Butler. No. 972,435; Oct. 11; Sp. p. 1986; Gaz. vol. 159; p. 348.
Furnaces, Gas-burning attachement for. F. J. Coyle. No. 948,133; Feb. 1; Sp. p. 726; Gaz. vol. 151; p. 119.
Furnaces, Hot blast for boiler-. P. H. Bagley. No. 955,573; Apr. 19; Sp. p. 4031; Gaz. vol. 153; p. 707.
Furnaces, Ignition-arch for. W. M. Duncan. No. 958,379; May 17; Sp. p. 4327; Gaz. vol. 154; p. 706.
Furnaces, Means for controlling draft-air to boiler-. L. Duffner. No. 947,804; Feb. 1; Sp. p. 51; Gaz. vol. 151; p. 11.
Furnaces, Means for facilitating the removal of accumulations in the pipes and elbows of. E. Pannenborg. No. 952,938; Mar. 22; Sp. p. 5066; Gaz. vol. 152; p. 910.
Furnaces, Method and means for feeding the trucks in channel-. P. Härdén. No. 946,355; Jan. 11; Sp. p. 2951; Gaz. vol. 150; p. 490.
Furnaces, Protecting registers of electric. F. A. J. Fitz Gerald. No. 950,905; Mar. 1; Sp. p. 931; Gaz. vol. 152; p. 149.
Furnaces, Rotary grate for. H. E. Wallis. No. 945,825; Jan. 11; Sp. p. 1820; Gaz. vol. 150; p. 305.
Furnaces, Tapping element for melting-. H. L. Hartenstein. No. 971,445; Sept. 27; Sp. p. 4854; Gaz. vol. 158; p. 850.
Furniture. T. C. Prouty. No. 948,377; Feb. 8; Sp. p. 1259; Gaz. vol. 151; p. 277.
Furniture. E. C. R. Ellsworth. No. 950,719; Mar. 1; Sp. p. 563; Gaz. vol. 152; p. 88.
Furniture. W. A. Snyder. No. 959,631; May 31; Sp. p. 6930; Gaz. vol. 154; p. 1180.
Furniture. J. F. Lindley, Jr. No. 966,569; Aug. 9; Sp. p. 1590; Gaz. vol. 157; p. 270.
Furniture. J. Haas. No. 967,903; Aug. 23; Sp. p. 4367; Gaz. vol. 157; p. 771.
Furniture, Article of. J. A. Ward, Jr. No. 957,826; May 10; Sp. p. 2800; Gaz. vol. 154; p. 481.
Furniture attachment. E. A. Gay. No. 979,149; Dec. 20; Sp. p. 3777; Gaz. vol. 161; p. 654.
Furniture attachment, Sliding-shoe. W. Dichmann. No. 959,478; May 31; Sp. p. 6609; Gaz. vol. 154; p. 1127.
Furniture-clamp. J. W. Connaty. No. 946,423; Jan. 11; Sp. p. 3192; Gaz. vol. 150; p. 513.
Furniture-clamping device. H. M. Holtgrewe. No. 949,233; Feb. 15; Sp. p. 3045; Gaz. vol. 151; p. 539.
Furniture, Collapsible. A. E. Holmes. No. 960,015; May 31; Sp. p. 7789; Gaz. vol. 154; p. 1311.
Furniture, Combination. F. Rogers. No. 970,395; Sept. 13; Sp. p. 2656; Gaz. vol. 158; p. 449.
Furniture, Combination article of. G. W. and G. E. Myers. No. 948,480; Feb. 8; Sp. p. 1470; Gaz. vol. 151; p. 261.
Furniture construction. J. Abel. No. 949,108; Feb. 15; Sp. p. 2799; Gaz. vol. 151; p. 496.
Furniture construction. M. E. Stockwell. No. 950,194; Feb. 22; Sp. p. 5131; Gaz. vol. 151; p. 901.
Furniture, Contouring articles of wooden. W. L. Pfefferkorn, A. P. Schloerb, and A. H. Hammetter. No. 969,298; Sept. 6; Sp. p. 308; Gaz. vol. 158; p. 50.
Furniture, Elastic support for upholstered. G. Laa. No. 969,963; Sept. 13; Sp. p. 1781; Gaz. vol. 158; p. 302.
Furniture-fastener. T. J. Call. No. 962,939; June 28; Sp. p. 5665; Gaz. vol. 155; p. 992.
Furniture-joint. P. G. Abrams. No. 978,530; Dec. 13; Sp. p. 2401; Gaz. vol. 161; p. 414.
Furniture-legs, Track-plate for. E. N. Humphrey. No. 968,357; Aug. 23; Sp. p. 5370; Gaz. vol. 157; p. 927.
Furniture, Metal. J. F. Lindley, Jr. No. 977,808; Dec. 6; Sp. p. 847; Gaz. vol. 161; p. 133.
Furniture, Pneumatic-cushion. W. E. Kurtz. No. 975,258; Nov. 8; Sp. p. 2668; Gaz. vol. 160; p. 431.
Furniture, School. J. C. and W. A. Moore. No. 950,944; Mar. 1; Sp. p. 1011; Gaz. vol. 152; p. 162.
Furniture, Store. C. C. Knutter. No. 975,049; Nov. 8; Sp. p. 2205; Gaz. vol. 160; p. 359.
Furniture-support, Adjustable. G. E. Anderson. No. 957,176; May 10; Sp. p. 1455; Gaz. vol. 154; p. 259.
Furniture-tip. A. B. Diss. No. 964,092; July 12; Sp. p. 2353; Gaz. vol. 156; p. 386.
Furrow-opener, Disk. T. Brennan, Jr. No. 977,367; Nov. 29; Sp. p. 7253; Gaz. vol. 160; p. 1231.
Furrow-opener drag-bar. F. R. Packham and G. P. Oates. No. 976,490; Nov. 22; Sp. p. 5333; Gaz. vol. 160; p. 904.
Fuse. F. P. Poole and H. U. Badeau. No. 945,594; Jan. 4; Sp. p. 1260; Gaz. vol. 150; p. 196.
Fuse. A. E. Porter. No. 956,996; May 3; Sp. p. 1083; Gaz. vol. 154; p. 169.
Fuse. F. H. Weston, Jr. No. 964,592; July 19; Sp. p. 3423; Gaz. vol. 156; p. 585.
Fuse attachment. C. C. Myrick. No. 968,185; Aug. 23; Sp. p. 5024; Gaz. vol. 157; p. 866.
Fuse-battery. A. E. Porter and E. P. Searing. No. 972,141; Oct. 4; Sp. p. 1355; Gaz. vol. 159; p. 228.
Fuse, Blasting-. J. Bramwell-Smith. No. 953,588; Mar. 29; Sp. p. 6479; Gaz. vol. 152; p. 1158.
Fuse-block. J. Collins. No. 960,155; May 31; Sp. p. 8072; Gaz. vol. 154; p. 1357.
Fuse block, Electrical-. A. A. Moffitt and G. E. Andrews. No. 946,251; Jan. 11; Sp. p. 2732; Gaz. vol. 150; p. 454.
Fuse block, Multiple-. C. H. Dunfee. No. 951,305; Mar. 8; Sp. p. 1716; Gaz. vol. 152; p. 302.

Alphabetical list of inventions—Continued.

Fuse-box. R. C. Cole. No. 945,017; Jan. 4; Sp. p. 12; Gaz. vol. 150; p. 5.
Fuse-box. J. W. Bird. No. 968,318; Aug. 23; Sp. p. 5295; Gaz. vol. 157; p. 913.
Fuse-cap, Miner's. C. F. Spery. No. 954,595; Apr. 12; Sp. p. 1920; Gaz. vol. 153; p. 341.
Fuse-cap, Waterproof. T. M. Daniels. No. 964,219; July 12; Sp. p. 2590; Gaz. vol. 156; p. 427.
Fuse-caps, Protector for safety. T. M. Daniels. No. 966,171; Aug. 2; Sp. p. 712; Gaz. vol. 157; p. 112.
Fuse clipper and splitter, Miner's combined. S. H. Lunsford. No. 975,968; Nov. 15; Sp. p. 4143; Gaz. vol. 160; p. 700.
Fuse cut-out, Multiple-. C. Almas. No. 966,783; Aug. 9; Sp. p. 2062; Gaz. vol. 157; p. 343.
Fuse, Electric. W. J. Lehmann. No. 950,932; Mar. 1; Sp. p. 982; Gaz. vol. 152; p. 157.
Fuse, Electric. A. J. Smith. No. 961,175; June 14; Sp. p. 1886; Gaz. vol. 155; p. 342.
Fuse, Electric. I. E. Barricklow. No. 973,250; Oct. 18; Sp. p. 3843; Gaz. vol. 159; p. 657.
Fuse, Electric safety-. T. E. Murray. No. 956,498; Apr. 26; Sp. p. 6104; Gaz. vol. 153; p. 1056.
Fuse, Electrical. A. West. No. 972,963; Oct. 18; Sp. p. 3214; Gaz. vol. 159; p. 559.
Fuse for electric circuits. C. J. Dorff. No. 949,296; Feb. 15; Sp. p. 3178; Gaz. vol. 151; p. 560.
Fuse for electrical circuits. S. M. Kintner and G. B. Rosenblatt. No. 959,552; May 31; Sp. p. 6779; Gaz. vol. 154; p. 1153.
Fuse for explosive projectiles. E. Schneider. No. 969,497; Sept. 6; Sp. p. 732; Gaz. vol. 158; p. 116.
Fuse for explosive projectiles. H. Wilson and M. A. Lynch. No. 972,425; Oct. 11; Sp. p. 1968; Gaz. vol. 159; p. 345.
Fuse for projectiles, Percussion-. H. B. Strange. No. 972,034; Oct. 4; Sp. p. 1151; Gaz. vol. 159; p. 193.
Fuse holder, Electric-. J. H. Trumbull. No. 946,741; Jan. 18; Sp. p. 3858; Gaz. vol. 150; p. 644.
Fuse holder for single-pole circuits, Multiple-. H. Wheeler. No. 954,838; Apr. 12; Sp. p. 2503; Gaz. vol. 153; p. 427.
Fuse-igniter. H. Bargman. No. 945,076; Jan. 4; Sp. p. 147; Gaz. vol. 150; p. 25.
Fuse-igniter. R. Conings. No. 970,889; Sept. 20; Sp. p. 3751; Gaz. vol. 158; p. 640.
Fuse, Inclosed electric. B. S. Luther. No. 968,174; Aug. 23; Sp. p. 4999; Gaz. vol. 157; p. 862.
Fuse-indicator, Inclosed-. O. C. Hoffman. No. 953,204; Mar. 29; Sp. p. 5649; Gaz. vol. 152; p. 1026.
Fuse-lighter. H. Bargman. No. 945,075; Jan. 4; Sp. p. 145; Gaz. vol. 150; p. 24.
Fuse-lighter. H. Bargman. No 945,673; Jan. 4; Sp. p. 1427; Gaz. vol. 150; p. 222.
Fuse-mounting. W. Merz. No. 971,205; Sept. 27; Sp. p. 4404; Gaz. vol. 158; p. 772.
Fuse, Percussion-. E. A. Gathmann. No. 950,205; Feb. 22; Sp. p. 5156; Gaz. vol. 151; p. 905.
Fuse, Percussion-. E. Schneider. No. 971,691; Oct. 4; Sp. p. 374; Gaz. vol. 159; p. 66.
Fuse-plug. W. F. Duckwitz. No. 959,208; May 24; Sp. p. 6054; Gaz. vol. 154; p. 1012.
Fuse-plug, Electric. J. H. Hanson. No. 949,630; Feb. 15; Sp. p. 3857; Gaz. vol. 151; p. 672.
Fuse, Protected or armor-clad electric-switch. H. H. Berry and W. J. Markham. No. 970,296; Sept. 13; Sp. p. 2470; Gaz. vol. 158; p. 416.
Fuse, Rechargeable electric. A. J. Orelli. No. 961,891; June 21; Sp. p. 3437; Gaz. vol. 155; p. 608.
Fuse-replacing device. W. L. Green. No. 950,389; Feb. 22; Sp. p. 5508; Gaz. vol. 151; p. 965.
Fuse, Safety-. J. Sachs and F. D. Reynolds. No. 959,807; May 31; Sp. p. 7309; Gaz. vol. 154; p. 1238.
Fuse, Safety-. S. J. Leveen and E. A. Martin. No. 975,261; Nov. 8; Sp. p. 2674; Gaz. vol. 160; p. 432.
Fuse, Scratch-headed. C. D. McPhee and J. Gillies. No. 968,188; Aug. 23; Sp. p. 5028; Gaz. vol. 157; p. 866.
Fuse-supporting connection. E. L. Grauel. No. 972,362; Oct. 11; Sp. p. 1839; Gaz. vol. 159; p. 322.
Fuse tester, Electric-. J. H. Cary. No. 968,448; Aug. 23; Sp. p. 5547; Gaz. vol. 157; p. 957.
Fuse, Ventilated. E. M. Hewlett. No. 947,235; Jan. 25; Sp. p. 4914; Gaz. vol. 150; p. 838.
Fuse, Weatherproof high-tension. E. H. Jacobs. No. 947,239; Jan. 25; Sp. p. 4925; Gaz. vol. 150; p. 839.
Fuses, Means for igniting. S. Lilley. No. 963,161; July 5; Sp. p. 339; Gaz. vol. 156; p. 48.
Fuses, Tester for electric blasting-. F. Beattie. No. 956,877; May 3; Sp. p. 818; Gaz. vol. 154; p. 131.
Fused terminal. R. H. Conway and H. E. Bisbing. No. 959,719; May 31; Sp. p. 7111; Gaz. vol. 154; p. 1207.
Fusible switch. G. W. Goodridge. No. 947,677; Jan. 25; Sp. p. 5941; Gaz. vol. 150; p. 988.
Fusing process. S. Meissner. No. 947,835; Feb. 1; Sp. p. 97; Gaz. vol. 151; p. 20.
Fusee. W. D. Jackson. No. 960,094; May 31; Sp. p. 7962; Gaz. vol. 154; p. 1337.
Fusee-caps, Making fiber. F. Dutcher. No. 950,381; Feb. 22; Sp. p. 5497; Gaz. vol. 151; p. 962.
Fusees, Compound for railway-signal. I. Niditch. No. 954,330; Apr. 5; Sp. p. 1355; Gaz. vol. 153; p. 224.

Gage: *See* Boiler-gage; Boiler water-gage; Caliper-gage; Engine power-gage; Faucet-gage; Feed-table gage; Hair-spring gage; Hinge-gage; Horizon-gage; Jeweler's gage; Liquid-gage; Marking-gage; Measurement-gage; Mortising-bit gage; Planter-gage; Pressure-gage; Pressure-recording gage; Printing-press feed-gage; Pruning-gage; Pulley-rope gage; Raker-gage; Ring-gage; Rule-gage; Saw-gage; Sewing-machine gage; Shears-gage; Shingling-hatchet gage; Skirt-gage; Speed-gage; Spoon-gage; Steam and water gage; Street-gage; Testing-gage; Tire air-pressure gage; Track-gage; Trimming or shearing machine gage; Water-gage; Weather-boarding gage; Wick-gage; Window-glass-setting gage.
Gage. W. A. Greaves. No. 946,032; Jan. 11; Sp. p. 2268; Gaz. vol. 150; p. 377.
Gage. W. Jörgensen. No. 948,141; Feb. 1; Sp. p. 748; Gaz. vol. 151; p. 122.
Gage. W. D. Hotchkiss. No. 950,175; Feb. 22; Sp. p. 5088; Gaz. vol. 151; p. 893.
Gage. W. A. Lomax. No. 955,175; Apr. 19; Sp. p. 3186; Gaz. vol. 153; p. 572.
Gage. F. Lohman. No. 956,116; Apr. 26; Sp. p. 5254; Gaz. vol. 153; p. 924.
Gage. J. M. Leaver, Jr. No. 957,779; May 10; Sp. p. 2718; Gaz. vol. 154; p. 466.
Gage. J. M. Leaver, Jr. No. 957,780; May 10; Sp. p. 2724; Gaz. vol. 154; p. 466.
Gage. J. M. Leaver, Jr. No. 957,781; May 10; Sp. p. 2726; Gaz. vol. 154; p. 466.
Gage. J. M. Leaver, Jr. No. 957,782; May 10; Sp. p. 2727; Gaz. vol. 154; p. 467.
Gage. E. B. Howell. No. 963,150; July 5; Sp. p. 319; Gaz. vol. 156; p. 44.
Gage. H. R. Stackhouse. No. 968,996; Aug. 30; Sp. p. 6717; Gaz. vol. 157; p. 1170.
Gage. S. W. Ladd. No. 976,269; Nov. 22; Sp. p. 4849; Gaz. vol. 160; p. 828.
Gage. F. Turek. No. 977,055; Nov. 29; Sp. p. 6574; Gaz. vol. 160; p. 1122.
Gage. F. C. Blanchard. No. 978,833; Dec. 20; Sp. p. 3035; Gaz. vol. 161; p. 540.
Gage and cutter mechanism, Combined. W. G. Perkins. No. 966,592; Aug. 9; Sp. p. 1633; Gaz. vol. 157; p. 278.
Gage-glass. F. R. Bispham. No. 976,030; Nov. 15; Sp. p. 4249; Gaz. vol. 160; p. 721.
Gage-guard. P. G. Olson. No. 966,468; Aug. 9; Sp. p. 1319; Gaz. vol. 157; p. 235.
Gage-table. R. C. Dayton. No. 972,101; Oct. 4; Sp. p. 1266; Gaz. vol. 159; p. 215.
Gagger or sand-anchor. G. S. Rinebolt. No. 978,782; Dec. 13; Sp. p. 2947; Gaz. vol. 161; p. 498.
Gallocyanins and making same, Derivatives of. C. Barbezat. No. 955,040; Apr. 12; Sp. p. 2926; Gaz. vol. 153; p. 496.
Galosh, gum boot, and other rubber footwear. D. and F. W. Smith. No. 947,859; Feb. 1; Sp. p. 171; Gaz. vol. 151; p. 29.
Galoshes and uppers for boots and shoes, Machine for making seamless. G. N. Thorel. No. 967,586; Aug. 16; Sp. p. 3735; Gaz. vol. 157; p. 642.
Galoshes, &c., Device for drawing on and drawing off. F. von Taxis. No. 954,061; Apr. 5; Sp. p. 758; Gaz. vol. 153; p. 132.
Galvanic battery. S. Benkö. No. 963,852; July 12; Sp. p. 1850; Gaz. vol. 156; p. 304.
Galvanic battery, Reversible. W. Morrison. No. 976,092; Nov. 15; Sp. p. 4374; Gaz. vol. 160; p. 743.
Galvanizing apparatus. A. Niedringhaus. No. 969,392; Sept. 6; Sp. p. 514; Gaz. vol. 158; p. 82.
Galvanizing metal tubes, rods, &c., Apparatus for. F. Werth. No. 970,149; Sept. 13; Sp. p. 2145; Gaz. vol. 158; p. 366.
Galvanometer, Differential. J. L. Zander. No. 967,597; Aug. 16; Sp. p. 3757; Gaz. vol. 157; p. 645.
Gambrel. H. Barrows. No. 959,287; May 24; Sp. p. 6213; Gaz. vol. 154; p. 1038.
Gambrel. F. Knaust. No. 962,358; June 21; Sp. p. 4446; Gaz. vol. 155; p. 766.
Gambrel. R. G. Sheller. No. 966,777; Aug. 9; Sp. p. 2052; Gaz. vol. 157; p. 341.
Gambrel. P. Malmgren. No. 968,782; Aug. 30; Sp. p. 6297; Gaz. vol. 157; p. 1099.
Gambrel. G. J. Hauk. No. 974,881; Nov. 8; Sp. p. 1817; Gaz. vol. 160; p. 302.
Gambrel, Automatic beef-spreader. G. H. Baust. No. 946,195; Jan. 11; Sp. p. 2609; Gaz. vol. 150; p. 433.
Gambrel, Hog-. J. A. Kaiserlik. No. 957,344; May 10; Sp. p. 1835; Gaz. vol. 154; p. 320.
Game. L. H. Gilbert. No 951,212; Mar. 8; Sp. p. 1507; Gaz. vol. 152; p. 272.
Game. A. F. Leach. No. 958,258; May 17; Sp. p. 3934; Gaz. vol. 154; p. 662.
Game. J. R. Nixon. No. 960,190; May 31; Sp. p. 8146; Gaz. vol. 154; p. 1370.
Game. F. Boulware. No. 963,505; July 5; Sp. p. 1084; Gaz. vol. 156; p. 165.
Game. J. Y. Henry. No. 964,644; July 19; Sp. p. 3519; Gaz. vol. 156; p. 602.
Game. A. M. Pope. No. 969,804; Sept. 13; Sp. p. 1429; Gaz. vol. 158; p. 248.

Alphabetical list of inventions—Continued.

Game. J. A. McDonald and W. L. Rennie. No. 970,257; Sept. 13; Sp. p. 2398; Gaz. vol. 158; p. 404.
Game. T. F. Gallagher. No. 970,321; Sept. 13; Sp. p. 2518; Gaz. vol. 158; p. 425.
Game. H. W. Fachmann. No. 971,532; Oct. 4; Sp. p. 46; Gaz. vol. 159; p. 10.
Game apparatus. W. L. G. Rumpf. No. 945,286; Jan. 4; Sp. p. 582; Gaz. vol. 150; p. 96.
Game apparatus. D. S. Staebler. No. 946,709; Jan. 18; Sp. p. 3784; Gaz. vol. 150; p. 633.
Game apparatus. C. F. Renner. No. 947,124; Jan. 18; Sp. p. 4675; Gaz. vol. 150; p. 772.
Game apparatus. O. C. Miller. No. 948,183; Feb. 1; Sp. p. 825; Gaz. vol. 151; p. 136.
Game apparatus. C. F. Doerr. No. 948,209; Feb. 1; Sp. p. 879; Gaz. vol. 151; p. 144.
Game apparatus. D. H. Talbert, C. Shaw, J. I. Holcomb, and J. F. Hoke, Jr. No. 948,776; Feb. 8; Sp. p. 2121; Gaz. vol. 151; p. 360.
Game apparatus. T. C. Luce. No. 948,983; Feb. 8; Sp. p. 2528; Gaz. vol. 151; p. 430.
Game apparatus. W. F. Schnelle. No. 949,602; Feb. 15; Sp. p. 3803; Gaz. vol. 151; p. 662.
Game apparatus. J. E. Watterson. No. 950,810; Mar. 1; Sp. p. 750; Gaz. vol. 152; p. 120.
Game apparatus. R. O. Roblin. No 951,701; Mar. 8; Sp. p. 2495; Gaz. vol. 152; p. 433.
Game apparatus. R. K. Eldridge. No. 951,805; Mar. 15; Sp. p. 2736; Gaz. vol. 152; p. 500.
Game apparatus. R. Sato. No. 952,644; Mar. 22; Sp. p. 4452; Gaz. vol. 152; p. 811.
Game apparatus. R. H. Zschau. No. 954,070; Apr. 5; Sp. p. 781; Gaz. vol. 153; p. 135.
Game apparatus. E. H. Heath. No. 954,627; Apr. 12; Sp. p. 1996; Gaz. vol. 153; p. 352.
Game apparatus. E. H. Heath. No. 954,628; Apr. 12; Sp. p. 1997; Gaz. vol. 153; p. 352.
Game apparatus. H. W. Westerberg. No. 956,244; Apr. 26; Sp. p. 5568; Gaz. vol. 153; p. 969.
Game apparatus. A. W. Proctor. No. 957,254; May 10; Sp. p. 1631; Gaz. vol. 154; p. 288.
Game apparatus. J. R. Snow. No. 957,266; May 10; Sp. p. 1667; Gaz. vol. 154; p. 293.
Game apparatus. D. C. Mitchell. No. 957,472; May 10; Sp. p. 2085; Gaz. vol. 154; p. 361.
Game apparatus. E. J. Burke. No 957,740; May 10; Sp. p. 2619; Gaz. vol. 154; p. 453.
Game apparatus. W. A. White. No. 958,342; May 17; Sp. p. 4252; Gaz. vol. 154; p. 694.
Game apparatus. E. P. Chalmers. No. 958,722; May 24; Sp. p. 5001; Gaz. vol. 154; p. 846.
Game apparatus. W. A. Sullivan. No. 959,402; May 24; Sp. p. 6430; Gaz. vol. 154; p. 1076.
Game apparatus. C. E. Burbank. No. 959,710; May 31; Sp. p. 7094; Gaz. vol. 154; p. 1204.
Game apparatus. H. F. Wright. No. 959,985; May 31; Sp. p. 7717; Gaz. vol. 154; p. 1300.
Game apparatus. W. H. Darrow. No. 960,512; June 7; Sp. p. 549; Gaz. vol. 155; p. 91.
Game apparatus. G. Huckstra. No. 960,930; June 7; Sp. p. 1373; Gaz. vol. 155; p. 231
Game apparatus. E. H. Johnson. No. 963,293; July 5; Sp. p. 669; Gaz. vol. 156; p. 94.
Game apparatus. E. A. Festerling. No. 963,754; July 12; Sp. p. 1610; Gaz. vol. 156; p. 271.
Game apparatus. R. F. Downey. No. 964,466; July 12; Sp. p. 3091; Gaz. vol. 156; p. 507.
Game apparatus. M. H. Kane and J. N. Crabb. No. 964,473; July 12; Sp. p. 3101; Gaz. vol. 156; p. 509.
Game apparatus. F. C. Wegener. No. 964,718; July 19; Sp. p. 3778; Gaz. vol. 156; p. 628.
Game apparatus. P. Makray. No. 965,591; July 26; Sp. p. 5619; Gaz. vol. 156; p. 956.
Game apparatus. S. J. Heinig and R. H. Smith. No. 966,091; Aug. 2; Sp. p. 528; Gaz. vol. 157; p. 85.
Game apparatus. P. B. Atkins. No. 966,984; Aug. 9; Sp. p. 2484; Gaz. vol. 157; p. 409.
Game apparatus. J. L. Morrow. No. 967,811; Aug. 16; Sp. p. 4180; Gaz. vol. 157; p. 716.
Game apparatus. E. P. Meeker. No. 968,249; Aug. 23; Sp. p. 5155; Gaz. vol. 157; p. 888.
Game apparatus. G. Zint. No. 968,309; Aug. 23; Sp. p. 5274; Gaz. vol. 157; p. 909.
Game apparatus. A. J. Krug. No. 968,366; Aug. 23; Sp. p. 5387; Gaz. vol. 157; p. 929.
Game apparatus. G. A. O'Neil. No. 969,560; Sept. 6; Sp. p. 880; Gaz. vol. 158; p. 139.
Game apparatus. G. W. Matthews. No. 970,070; Sept. 13; Sp. p. 2008; Gaz. vol. 158; p. 341.
Game apparatus. W. M. Gentle. No. 970,489; Sept. 20; Sp. p. 2866; Gaz. vol. 158; p. 501.
Game apparatus. H. C. Cleveland. No. 970,799; Sept. 20; Sp. p. 3574; Gaz. vol. 158; p. 611.
Game apparatus. E. R. Ernst. No. 970,901; Sept. 20; Sp. p. 3770; Gaz. vol. 158; p. 643.
Game apparatus. C. A. Colomb. No. 970,993; Sept. 20; Sp. p. 3938; Gaz. vol. 158; p. 673.
Game apparatus. S. E. Creasey. No. 971,024; Sept. 27; Sp. p. 4004; Gaz. vol. 158; p. 712.
Game apparatus. W. Peall. No. 971,470; Sept. 27; Sp. p. 4898; Gaz. vol. 158; p. 857.
Game apparatus. G. Johnson-Jervis. No. 972,382; Oct. 11; Sp. p. 1876; Gaz. vol. 159; p. 329.
Game apparatus. G. N. Byl. No. 972,597; Oct. 11; Sp. p. 2377; Gaz. vol. 159; p. 406.
Game apparatus. G. D. Snell. No. 973,084; Oct. 18; Sp. p. 3464; Gaz. vol. 159; p. 600.
Game apparatus. C. J. Dorsey. No. 973,484; Oct. 25; Sp. p. 4350; Gaz. vol. 159; p. 761.
Game apparatus. W. A. Hamilton. No. 974,661; Nov. 1; Sp. p. 1325; Gaz. vol. 160; p. 205.
Game apparatus. J. M. Stivers. No. 974,721; Nov. 1; Sp. p. 1457; Gaz. vol. 160; p. 225.
Game apparatus. H. G. Barrett. No. 975,316; Nov. 8; Sp. p. 2793; Gaz. vol. 160; p. 451.
Game apparatus. C. E. Prickett. No. 976,492; Nov. 22; Sp. p. 5337; Gaz. vol. 160; p. 905.
Game apparatus. J. R. Tercy. No. 977,485; Dec. 6; Sp. p. 129; Gaz. vol. 161; p. 22.
Game apparatus. Z. D. Underhill. No. 979,109; Dec. 20; Sp. p. 3682; Gaz. vol. 161; p. 639.
Game apparatus. H. B. Munro. No. 979,392; Dec. 20; Sp. p. 4260; Gaz. vol. 161; p. 733.
Game apparatus. A. W. Thimm. No. 979,598; Dec. 27; Sp. p. 4717; Gaz. vol. 161; p. 828.
Game apparatus. B. A. Boore and J. W. Ferguson. No. 979,923; Dec. 27; Sp. p. 5424; Gaz. vol. 161; p. 937.
Game apparatus, Base-ball-. W. E. Small. No. 950,965; Mar. 1; Sp. p. 1054; Gaz. vol. 152; p. 169.
Game apparatus, Base-ball-. P. C. Peuser. No. 951,257; Mar. 8; Sp. p. 1602; Gaz. vol. 152; p. 286.
Game apparatus, Base-ball-. J. F. Murray. No. 951,486; Mar. 8; Sp. p. 2092; Gaz. vol. 152; p. 362.
Game apparatus, Base-ball-. J. F. and A. S. Hayes. No. 965,627; July 26; Sp. p. 5705; Gaz. vol. 156; p. 969.
Game apparatus, Base-ball-. T. E. Murray. No. 970,086; Sept. 13; Sp. p. 2032; Gaz. vol. 158; p. 345.
Game apparatus, Base-ball-. A. W. Weeden. No. 977,149; Nov 29; Sp. p. 6795; Gaz. vol. 160; p. 1155.
Game apparatus, Bowling-. R. F. Downey. No. 954,943; Apr. 12; Sp. p. 2732; Gaz. vol. 153; p. 462.
Game apparatus, Card-. L. A. Ely. No. 957,872; May 17; Sp. p. 2910; Gaz. vol. 154; p. 527.
Game apparatus, Educational. E. G. Sanderson. No. 952,997; Mar. 22; Sp. p. 5174; Gaz. vol. 152; p. 929.
Game apparatus, Exercising. L. B. Taylor, F. D. and J. W. Bartlett. No. 949,385; Feb. 15; Sp. p. 3389; Gaz. vol. 151; p. 591.
Game apparatus, Planchette. D. Blaikley. No. 969,935; Sept. 13; Sp. p. 1705; Gaz. vol. 158; p. 294.
Game apparatus, Race-. J. Goodwin. No. 974,376; Nov. 1; Sp. p. 675; Gaz. vol. 160; p. 102.
Game apparatus, Round-. P. J. Hansen. No. 968,558; Aug. 30; Sp. p. 5800; Gaz. vol. 157; p. 1021.
Game, Ball. A. C. Nelson. No. 971,626; Oct. 4; Sp. p. 251; Gaz. vol. 159; p. 44.
Game-blocks, Combination. C. H. Rieth. No. 956,827; May 3; Sp. p. 718; Gaz. vol. 154; p. 113.
Game-board. F. J. Kraber. No. 945,277; Jan. 4; Sp. p. 563; Gaz. vol. 150; p. 92.
Game-board. A. Schmittner. No. 949,007; Feb. 15; Sp. p. 2586; Gaz. vol. 151; p. 464.
Game-board. H. A. Richardson. No. 957,800; May 10; Sp. p. 2759; Gaz. vol. 154; p. 473.
Game-board. T. W. Spaulding. No. 958,556; May 17; Sp. p. 4667; Gaz. vol. 154; p. 767.
Game-board. P. R. Cole. No. 963,686; July 5; Sp. p. 1438; Gaz vol. 156; p. 226.
Game-board. W. S. Woodruff. No. 971,871; Oct. 4; Sp. p. 768; Gaz. vol. 159; p. 133.
Game-board. W. H. Wright and E. A. Powell. No. 975,009; Nov. 8; Sp. p. 2126; Gaz. vol. 160; p. 346.
Game-board. F. De Rocher. No. 979,445; Dec. 27; Sp. p. 4377; Gaz. vol. 161; p. 775.
Game board, Base-ball-. W. C. Tilmes and F. G. Kallmeyer. No. 969,424; Sept. 6; Sp. p. 583; Gaz. vol. 158; p. 93.
Game, Card. N. M. Hopkins. No. 977,010; Nov. 29; Sp. p. 6491; Gaz. vol. 160; p. 1107.
Game-counter. J. H. Lesher. No. 951,375; Mar. 8; Sp. p. 1862; Gaz. vol. 152; p. 325.
Game-counter. A. McKinney. No. 952,929; Mar. 22; Sp. p. 5048; Gaz. vol. 152; p. 907.
Game-counter. E. R. Heusser. No. 975,237; Nov. 8; Sp. p. 2628; Gaz. vol. 160; p. 424.
Game-counter. J. Pauly. No. 979,997; Dec. 27; Sp. p. 5563; Gaz. vol. 161; p. 961.
Game device. E. L. Ellis. No. 953,903; Apr. 5; Sp. p. 434; Gaz. vol. 153; p. 79.
Game device. H. M. Chase. No. 961,714; June 14; Sp. p. 3034; Gaz. vol. 155; p. 525.
Game device. P. J. McKinley. No. 973,799; Oct. 25; Sp. p. 5004; Gaz. vol. 159; p. 870.
Game device. J. Seawell. No. 980,014; Dec. 27; Sp. p. 5600; Gaz. vol. 161; p. 968.
Game device, Base-ball-. J. J. Fitzsimmons. No. 961,851; June 21; Sp. p. 3345; Gaz. vol. 155; p. 595.
Game device, Bat-and-ball. L. L. George. No. 973,935; Oct. 25; Sp. p. 5286; Gaz. vol. 159; p. 917.
Game device, Educational. M. E. Church. No. 972,335; Oct. 11; Sp. p. 1777; Gaz. vol. 159; p. 312.

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Game equipment. C. B. Steacy. No. 947,603; Jan. 25; Sp. p. 5799; Gaz. vol. 150; p. 963.
Game or puzzle device. O. Weston. No. 968,824; Aug. 30; Sp. p. 6376; Gaz. vol. 157; p. 1112.
Game, Parlor base-ball. H. A. Comstock. No. 956,291; Apr. 26; Sp. p. 5658; Gaz. vol. 153; p. 985.
Game-points indicator. F. J. Weber. No. 963,343; July 5; Sp. p. 762; Gaz. vol. 156; p. 111.
Game, Shooting. J. W. Eaves. No. 973,488; Oct. 25; Sp. p. 4360; Gaz. vol. 159; p. 762.
Game-table. F. J. Bryant. No. 971,726; Oct. 4; Sp. p. 459; Gaz. vol. 159; p. 79.
Game-table cover, Coin-controlled. J. M. Stivers. No. 971,222; Sept. 27; Sp. p. 4443; Gaz. vol. 158; p. 778.
Game-trap. G. L. Johnson. No. 969,958; Sept. 13; Sp. p. 1772; Gaz. vol. 158; p. 301.
Games, Artificial playing-bed for open-air. J. H. Stedman. No. 957,387; May 10; Sp. p. 1917; Gaz. vol. 154; p. 333.
Games, Cage for. A. Tomkins. No. 959,973; May 31; Sp. p. 7690; Gaz. vol. 154; p. 1296.
Games, Sling for ball. A. D'Abreu and E. Seeger. No. 975,193; Nov. 8; Sp. p. 2542; Gaz. vol. 160; p. 410.
Gang-plank. A. Kelemen and S. Lázár. No. 960,022; May 31; Sp. p. 7816; Gaz. vol. 154; p. 1313.
Gang-plank, Folding. E. J. Miller. No. 963,918; July 12; Sp. p. 1983; Gaz. vol. 156; p. 326.
Gapped wheel. W. T. Sears. No. 957,384; May 10; Sp. p. 1912; Gaz. vol. 154; p. 333.
Garbage and ash receiver. C. C. Wilder. No. 966,145; Aug. 2; Sp. p. 624; Gaz. vol. 157; p. 102.
Garbage and recovery of by-products, Destruction of. W. M. Cross. No. 956,569; May 3; Sp. p. 129; Gaz. vol. 154; p. 23.
Garbage-burner and water-heater. W. G. Ross. No. 965,229; July 26; Sp. p. 4801; Gaz. vol. 156; p. 830.
Garbage-burner and water-heater, Combined. J. J. Dubé. (Reissue.) No. 13,143; Aug. 16; Sp. p. 4307; Gaz. vol. 157; p. 737.
Garbage-can. W. B. Osborn. No. 950,456; Feb. 22; Sp. p. 5625; Gaz. vol. 151; p. 987.
Garbage-can, Automatic sanitary. J. W. Ross. No. 955,908; Apr. 26; Sp. p. 4816; Gaz. vol. 153; p. 852.
Garbage-cans, &c., Stand for. W. S. Amberson. No. 962,874; June 28; Sp. p. 5556; Gaz. vol. 155; p. 972.
Garbage chute and receptacle. N. W. Lowe. No. 958,265; May 17; Sp. p. 3945; Gaz. vol. 154; p. 664.
Garbage-crematory. J. A. Thompson. No. 952,651; Mar. 22; Sp. p. 4467; Gaz. vol. 152; p. 813.
Garbage-crematory. W. K. Herbert. No. 963,554; July 5; Sp. p. 1181; Gaz. vol. 156; p. 182.
Garbage-crematory. O. M. Shannon. No. 964,568; July 19; Sp. p. 3373; Gaz. vol. 156; p. 576.
Garbage crematory or incinerator. F. P. Smith. No. 950,192; Feb. 22; Sp. p. 5125; Gaz. vol. 151; p. 900.
Garbage evaporator and crematory. F. L. Decarie. No. 954,855; Apr. 12; Sp. p. 2539; Gaz. vol. 153; p. 433.
Garbage-furnace, Domestic. A. V. Wood. No. 960,760; June 7; Sp. p. 1053; Gaz. vol. 155; p. 177.
Garbage-press. P. B. Taylor. No. 952,221; Mar. 15; Sp. p. 3551; Gaz. vol. 152; p. 638.
Garbage-receptacle. C. Edgerton. No. 950,097; Feb. 22; Sp. p. 4927; Gaz. vol. 151; p. 867.
Garbage-receptacle. J. P. and A. C. Urban. No. 956,454; Apr. 26; Sp. p. 5997; Gaz. vol. 153; p. 1041.
Garbage-receptacle. S. Moorman. No. 957,237; May 10; Sp. p. 1600; Gaz. vol. 154; p. 282.
Garbage-receptacle. W. E. Seymour. No. 970,960; Sept. 20; Sp. p. 3878; Gaz. vol. 158; p. 662.
Garbage-receptacle. J. P. Urban. No. 972,948; Oct. 18; Sp. p. 3186; Gaz. vol. 159; p. 554.
Garbage, Reducing. J. W. Altick and W. T. Wuichet. No. 965,271; July 26; Sp. p. 4894; Gaz. vol. 156; p. 845.
Garbage-tank. J. C. Beckley. No. 968,828; Aug. 30; Sp. p. 6383; Gaz. vol. 157; p. 1113.
Garbage-tank, Sanitary. J. Mast. No. 958,414; May 17; Sp. p. 4394; Gaz. vol. 154; p. 718.
Garbage-wagon. E. S. Dorr and M. F. Rogers. No. 956,053; Apr. 26; Sp. p. 5112; Gaz. vol. 153; p. 903.
Garden implement. O. H. and W. G. Peeples. No. 959,797; May 31; Sp. p. 7280; Gaz. vol. 154; p. 1234.
Garden implement. S. Thomas. No. 974,539; Nov. 1; Sp. p. 1077; Gaz. vol. 160; p. 161.
Garden-rake. A. E. Engström. No. 962,559; June 28; Sp. p. 4920; Gaz. vol. 155; p. 862.
Garden-tool. C. W. Deussen. No. 977,604; Dec. 6; Sp. p. 435; Gaz. vol. 161; p. 64.
Gardening implement. S. E. Norman. No. 978,478; Dec. 13; Sp. p. 2295; Gaz. vol. 161; p. 396.
Garment. R. P. Prendergast. No. 954,132; Apr. 5; Sp. p. 900; Gaz. vol. 153; p. 156.
Garment. A. L. Dautrey. No. 955,055; Apr. 12; Sp. p. 2949; Gaz. vol. 153; p. 500.
Garment. J. H. C. De Forge. No. 957,875; May 17; Sp. p. 2919; Gaz. vol. 154; p. 528.
Garment. E. J. Quigley. No. 961,013; June 7; Sp. p. 1557; Gaz. vol. 155; p. 261.
Garment. W. T. Connor and C. Hess. No. 963,279; July 5; Sp. p. 645; Gaz. vol. 156; p. 90.
Garment. B. S. Bankart. No. 965,552; July 26; Sp. p. 5538; Gaz. vol. 156; p. 943.
Garment. J. Cohen. No. 971,664; Oct. 4; Sp. p. 317; Gaz. vol. 159; p. 57.
Garment. H. G. Johnson. No. 973,200; Oct. 18; Sp. p. 3753; Gaz. vol. 159; p. 641.
Garment. C. S. Horwood. No. 973,432; Oct. 18; Sp. p. 4230; Gaz. vol. 159; p. 720.
Garment. E. J. Quigley. No. 973,699; Oct. 25; Sp. p. 4807; Gaz. vol. 159; p. 836.
Garment. W. H. Stevenson. No. 975,087; Nov. 8; Sp. p. 2282; Gaz. vol. 160; p. 373.
Garment and collar fastener. A. A. Reeside. No. 962,242; June 21; Sp. p. 4190; Gaz. vol. 155; p. 728.
Garment, Body-. C. W. T. Davies. No. 970,427; Sept. 13; Sp. p. 2716; Gaz. vol. 158; p. 458.
Garment-clasp. M. I. Hamburger. No. 956,342; Apr. 26; Sp. p. 5764; Gaz. vol. 153; p. 1002.
Garment-clasp. J. Lemay. No. 958,411; May 17; Sp. p. 4389; Gaz. vol. 154; p. 717.
Garment-clasp. J. Lemay. No. 961,701; June 14; Sp. p. 3001; Gaz. vol. 155; p. 520.
Garment-clasp. W. P. Hannaford. No. 964,968; July 19; Sp. p. 4283; Gaz. vol. 156; p. 715.
Garment-clasp. O. Kampfe. No. 976,574; Nov. 22; Sp. p. 5515; Gaz. vol. 160; p. 932.
Garment-clasp. F. J. B. Liesner. No. 978,762; Dec. 13; Sp. p. 2909; Gaz. vol. 161; p. 492.
Garment-closer. O. Eisenkramer. No. 955,637; Apr. 19; Sp. p. 4199; Gaz. vol. 153; p. 730.
Garment, Combination-. O. M. Potterf. No. 973,299; Oct. 18; Sp. p. 3938; Gaz. vol. 159; p. 674.
Garment, Combination-. L. S. Lee. No. 974,981; Nov. 8; Sp. p. 2065; Gaz. vol. 160; p. 337.
Garment-creaser. R. K. Aselstine and G. W. Langdon. No. 966,640; Aug. 9; Sp. p. 1724; Gaz. vol. 157; p. 294.
Garment-fastener. J. C. Carter. No. 946,011; Jan. 11; Sp. p. 2229; Gaz. vol. 150; p. 370.
Garment-fastener. H. I. Elson. No. 949,064; Feb. 15; Sp. p. 2710; Gaz. vol. 151; p. 482.
Garment-fastener. G. W. Prentice. No. 963,390; July 5; Sp. p. 859; Gaz. vol. 156; p. 127.
Garment-fastener. H. S. Brewington. No. 966,406; Aug. 2; Sp. p. 1161; Gaz. vol. 157; p. 188.
Garment-fastener. M. F. Wolff. No. 977,579; Dec. 6; Sp. p. 374; Gaz. vol. 161; p. 55.
Garment-fastening cover. T. Wickersham. No. 948,837; Feb. 8; Sp. p. 2243; Gaz. vol. 151; p. 381.
Garment-fastening device. G. W. Prentice. No. 963,391; July 5; Sp. p. 860; Gaz. vol. 156; p. 127.
Garment-hanger. O. Rangnow. No. 945,729; Jan. 4; Sp. p. 1569; Gaz. vol. 150; p. 242.
Garment-hanger. C. F. Bake. No. 946,833; Jan. 18; Sp. p. 4093; Gaz. vol. 150; p. 677.
Garment-hanger. H. L. Heald. No. 946,900; Jan. 18; Sp. p. 4262; Gaz. vol. 150; p. 700.
Garment-hanger. F. Wolf. No. 951,470; Mar. 8; Sp. p. 2058; Gaz. vol. 152; p. 357.
Garment-hanger. H. E. Rathbun. No. 952,359; Mar. 15; Sp. p. 3826; Gaz. vol. 152; p. 684.
Garment-hanger. J. B. Brochu. No. 952,599; Mar. 22; Sp. p. 4355; Gaz. vol. 152; p. 795.
Garment-hanger. E. C. Clausen. No. 958,366; May 17; Sp. p. 4298; Gaz. vol. 154; p. 702.
Garment-hanger. J. F. Altermatt. No. 959,687; May 31; Sp. p. 7048; Gaz. vol. 154; p. 1197.
Garment-hanger. J. F. Altermatt. No. 959,688; May 31; Sp. p. 7049; Gaz. vol. 154; p. 1197.
Garment-hanger. H. B. Douglas. No. 964,003; July 12; Sp. p. 2169; Gaz. vol. 156; p. 354.
Garment-hanger. S. T. Watanabe. No. 964,072; July 12; Sp. p. 2299; Gaz. vol. 156; p. 379.
Garment-hanger. A. J. Smith. No. 965,339; July 26; Sp. p. 5057; Gaz. vol. 156; p. 869.
Garment-hanger. W. F. Cutler. No. 972,439; Oct. 11; Sp. p. 1992; Gaz. vol. 159; p. 350.
Garment-hanger. G. V. Nichols. No. 976,094; Nov. 15; Sp. p. 4391; Gaz. vol. 160; p. 744.
Garment-hanger. L. P. Wilson. No. 976,531; Nov. 22; Sp. p. 5427; Gaz. vol. 160; p. 917.
Garment-hanger. R. W. Giese. No. 977,727; Dec. 6; Sp. p. 682; Gaz. vol. 161; p. 106.
Garment-hanger. P. T. Zizinia. No. 977,921; Dec. 6; Sp. p. 1088; Gaz. vol. 161; p. 173.
Garment-hanger. P. T. Zizinia. No. 978,422; Dec. 13; Sp. p. 2177; Gaz. vol. 161; p. 377.
Garment-hanger. P. T. Zizinia. No. 978,423; Dec. 13; Sp. p. 2179; Gaz. vol. 161; p. 377.
Garment hanger and protector. R. Sahlin. No. 961,803; June 21; Sp. p. 3223; Gaz. vol. 155; p. 579.
Garment-hanger, Combination. W. C. Thatcher. No. 959,180; May 24; Sp. p. 6001; Gaz. vol. 154; p. 1003.
Garment-hanger, Folding. I. Anderson. No. 949,815; Feb. 22; Sp. p. 4259; Gaz. vol. 151; p. 768.
Garment-hanger support. G. M. Blandford. No. 954,920; Apr. 12; Sp. p. 2696; Gaz. vol. 153; p. 456.
Garment-holder. B. J. Buckingham. No. 951,628; Mar. 8; Sp. p. 2365; Gaz. vol. 152; p. 410.
Garment-holder. B. J. Buckingham. No. 969,520; Sept. 6; Sp. p. 788; Gaz. vol. 158; p. 123.
Garment-holder, Locking. D. J. Bliss. No. 946,572; Jan. 18; Sp. p. 3498; Gaz. vol. 150; p. 588.

Garment holder or rack. A. Johnson. No. 975,246; Nov. 8; Sp. p. 2648; Gaz. vol. 160; p. 427.
Garment-hook. F. E. De Long. No. 947,770; Jan. 25; Sp. p. 6106; Gaz. vol. 150; p. 1018.
Garment-hook. F. E. De Long. No. 947,771; Jan. 25; Sp. p. 6107; Gaz. vol. 150; p. 1018.
Garment-hook. F. E. De Long. No. 947,772; Jan. 25; Sp. p. 6108; Gaz. vol. 150; p. 1018.
Garment, Infant's. W. B. Tyrrell. No. 949,164; Feb. 15; Sp. p. 2909; Gaz. vol. 151; p. 516.
Garment, Nether. G. Durichen. No. 947,891; Feb. 1; Sp. p. 244; Gaz. vol. 151; p. 40.
Garment-presser. J. Bischof. No. 957,141; May 3; Sp. p. 1362; Gaz. vol. 154; p. 218.
Garment-pressing machine. E. C. Grever. No. 979,844; Dec. 27; Sp. p. 5265; Gaz. vol. 161; p. 911.
Garment-rack. G. M. Vail. No. 954,364; Apr. 5; Sp. p. 1417; Gaz. vol. 153; p. 235.
Garment-rack. H. R. Kuersten. No. 962,227; June 21; Sp. p. 4163; Gaz. vol. 155; p. 723.
Garment-rack. J. C. Sassenberg. No. 975,799; Nov. 15; Sp. p. 3812; Gaz. vol. 160; p. 642.
Garment-receptacle. G. H. Wheary. No. 956,559; May 3; Sp. p. 109; Gaz. vol. 154; p. 20.
Garment-receptacle. C. Goldberg. No. 969,468; Sept. 6; Sp. p. 657; Gaz. vol. 158; p. 105.
Garment, Storm-. I. V. Benoit. No. 971,110; Sept. 27; Sp. p. 4196; Gaz. vol. 158; p. 741.
Garment-support. R. H. Buckingham. No. 973,750; Oct. 25; Sp. p. 4900; Gaz. vol. 159; p. 852.
Garment-support. J. R. Randle. No. 975,279; Nov. 8; Sp. p. 2712; Gaz. vol. 160; p. 438.
Garment support and form, Combined. H. Klingenfeld. No. 952,202; Mar. 15; Sp. p. 3503; Gaz. vol. 152; p. 630.
Garment support and lock. W. Murphy. No. 979,990; Dec. 27; Sp. p. 5549; Gaz. vol. 161; p. 959.
Garment-support, Extensible. S. Himmel. No. 962,837; June 28; Sp. p. 5479; Gaz. vol. 155; p. 958.
Garment-support, Movable. A. Vanderveld. No. 972,298; Oct. 11; Sp. p. 1714; Gaz. vol. 159; p. 301.
Garment-supports, Latch for movable. A. Vanderveld. No. 977,573; Dec. 6; Sp. p. 362; Gaz. vol. 161; p. 53.
Garment-supporter. M. W. Miracle. No. 950,051; Feb. 22; Sp. p. 4844; Gaz. vol. 151; p. 852.
Garment-supporter. S. Kops. No. 950,855; Mar. 1; Sp. p. 838; Gaz. vol. 152; p. 134.
Garment-supporter. M. F. Burns. No. 952,601; Mar. 22; Sp. p. 4357; Gaz. vol. 152; p. 795.
Garment-supporter. S. J. McClung. No. 952,835; Mar. 22; Sp. p. 4867; Gaz. vol. 152; p. 876.
Garment-supporter. W. P. Kellogg. No. 953,957; Apr. 5; Sp. p. 534; Gaz. vol. 153; p. 97.
Garment-supporter. H. C. Hine. No. 955,837; Apr. 19; Sp. p. 4631; Gaz. vol. 153; p. 799.
Garment-supporter. C. A. McCarthy. No. 956,141; Apr. 26; Sp. p. 5313; Gaz. vol. 153; p. 934.
Garment-supporter. G. H. Snow. No. 957,117; May 3; Sp. p. 1316; Gaz. vol. 154; p. 210.
Garment-supporter. C. J. White. No. 959,088; May 24; Sp. p. 5810; Gaz. vol. 154; p. 973.
Garment-supporter. H. C. Hine. No. 959,937; May 31; Sp. p. 7606; Gaz. vol. 154; p. 1283.
Garment-supporter. E. N. Humphrey. No. 961,448; June 14; Sp. p. 2483; Gaz. vol. 155; p. 436.
Garment-supporter. C. J. White. No. 968,299; Aug. 23; Sp. p. 5259; Gaz. vol. 157; p. 905.
Garment-supporter. J. Zelman. No. 969,083; Aug. 30; Sp. p. 6896; Gaz. vol. 157; p. 1201.
Garment-supporter. J. W. Schloss. No. 970,120; Sept. 13; Sp. p. 2092; Gaz. vol. 158; p. 356.
Garment-supporter. J. W. Schloss. No. 970,121; Sept. 13; Sp. p. 2094; Gaz. vol. 158; p. 356.
Garment-supporter. P. J. Eklund. No. 973,017; Oct. 18; Sp. p. 3324; Gaz. vol. 159; p. 578.
Garment-supporter. F. M. Lingo and E. J. Kaufman. No. 975,700; Nov. 15; Sp. p. 3606; Gaz. vol. 160; p. 608.
Garment-supporter. E. N. Humphrey. No. 977,404; Nov. 29; Sp. p. 7350; Gaz. vol. 160; p. 1243.
Garment-supporter attachment. J. S. Martin. No. 951,617; Mar. 8; Sp. p. 2342; Gaz vol. 152; p. 406.
Garment-supporter clasp. E. N. Humphrey. No. 978,024; Dec. 6; Sp. p. 1296; Gaz. vol. 161; p. 208.
Garment-waistband adjuster. E. Holdgate. No. 966,747; Aug. 9; Sp. p. 1990; Gaz. vol. 157; p. 331.
Garment-worker's table. S. G. Buskard. No. 970,014; Sept. 13; Sp. p. 1888; Gaz. vol. 158; p. 321.
Garments, Making. G. M. Gray. No. 963,434; July 5; Sp. p. 950; Gaz. vol. 156; p. 141.
Garter. E. N. Humphrey. No. 950,135; Feb. 22; Sp. p. 4999; Gaz. vol. 151; p. 879.
Garter. W. A. Köneman. No. 968,857; Aug. 30; Sp. p. 6446; Gaz. vol. 157; p. 1122.
Garter. C. F. Ingalls. No. 974,667; Nov. 1; Sp. p. 1336; Gaz. vol. 160; p. 207.
Garter. H. L. Carpenter. No. 979,426; Dec. 27; Sp. p. 4329; Gaz. vol. 161; p. 768.
Garter for half-hose. E. Powell. No. 945,595; Jan. 4; Sp. p. 1261; Gaz. vol. 150; p. 196.
Gas-analysis apparatus. S. D. Merton. No. 953,482; Mar. 29; Sp. p. 6249; Gaz. vol. 152; p. 1120.
Gas-analysis apparatus. G. M. S. Tait. No. 963,484; July 5; Sp. p. 1041; Gaz. vol. 156; p. 158.
Gas analysis, Apparatus for. K. W. Bartlett and J. J. Staley. No. 945,740; Jan. 11; Sp. p. 1617; Gaz. vol. 150; p. 274.
Gas and air mixer for burners. G. A. Peterson and J. L. Lackett. No. 959,593; May 31; Sp. p. 6859; Gaz. vol. 154; p. 1167.
Gas and analogous gases for obtaining tar and ammonia, Treatment of coal-. W. Feld. No. 951,778; Mar. 8; Sp. p. 2669; Gaz. vol. 152; p. 461.
Gas and coal furnace, Combination. F. J. Parker. No. 946,266; Jan. 11; Sp. p. 2766; Gaz. vol. 150; p. 460.
Gas and electric cut-off, Time-controlled. H. Niemann. No. 956,147; Apr. 26; Sp. p. 5328; Gaz. vol. 153; p. 936.
Gas and electric fixture, Combined. A. I. Schwinger. No. 955,002; Apr. 12; Sp. p. 2851; Gaz. vol. 153; p. 483.
Gas and electric-light fixture, Combined. F. I. Hollingsworth. No. 969,059; Aug. 30; Sp. p. 6852; Gaz. vol. 157; p. 1192.
Gas and electric-light fixtures, Canopy for. L. W. Andersen. No. 978,532; Dec. 13; Sp. p. 2404; Gaz. vol. 161; p. 414.
Gas and liquid mixer. E. P. Noyes. No. 979,787; Dec. 27; Sp. p. 5124; Gaz. vol. 161; p. 891.
Gas and liquids, Automatic shut-off system for. C. D. Miller. No. 962,648; June 28; Sp. p. 5092; Gaz. vol. 155; p. 890.
Gas and oil burner, Combination. G. A. Smith. No. 977,231; Nov. 29; Sp. p. 6962; Gaz. vol. 160; p. 1183.
Gas and oil engine. A. G. Pace. No. 963,318; July 5; Sp. p. 710; Gaz. vol. 156; p. 102.
Gas and recovering ammonia, &c., therefrom, Purifying. F. J. Falding. No. 961,763; June 21; Sp. p. 3150; Gaz. vol. 155; p. 566.
Gas and smoke consuming attachment, Combined. F. Shmonsky. No. 961,810; June 21; Sp. p. 3254; Gaz. vol. 155; p. 581.
Gas and steam power-generator. E. E. Lamson. No. 947,107; Jan. 18; Sp. p. 4650; Gaz. vol. 150; p. 767.
Gas apparatus. J. F. Kistler. No. 946,371; Jan. 11; Sp. p. 3079; Gaz. vol. 150; p. 495.
Gas apparatus. J. Fischer. No. 958,245; May 17; Sp. p. 3908; Gaz. vol. 154; p. 658.
Gas apparatus. J. H. Taussig. No. 969,502; Sept. 6; Sp. p. 746; Gaz. vol. 158; p. 117.
Gas apparatus. J. Cappon and J. A. Schantz. No. 971,019; Sept. 27; Sp. p. 3994; Gaz. vol. 158; p. 710.
Gas apparatus, Combined dip-regulator and tar-seal for. J. Dell. No. 951,633; Mar. 8; Sp. p. 2377; Gaz. vol. 152; p. 411.
Gas apparatus, Continuous-make. E. E. Wickersham. No. 972,486; Oct. 11; Sp. p. 2097; Gaz. vol. 159; p. 365.
Gas, Apparatus for making petrolized or air. W. Shearer. No. 948,745; Feb. 8; Sp. p. 2047; Gaz. vol. 151; p. 350.
Gas, Apparatus for manufacturing heating and illuminating. M. P. Wynne and S. L. Wagley. No. 964,832; July 19; Sp. p. 4005; Gaz. vol. 156; p. 667.
Gas, Apparatus for purifying blast-furnace. H. Savage. No. 948,664; Feb. 8; Sp. p. 1868; Gaz. vol. 151; p. 322.
Gas, Apparatus for the manufacture of. A. E. Gow. No. 945,715; Jan. 4; Sp. p. 1514; Gaz. vol. 150; p. 236.
Gas, Apparatus for use in the manufacture of. P. Plantinga. No. 949,841; Feb. 22; Sp. p. 4312; Gaz. vol. 151; p. 777.
Gas apparatus, Oil-. E. N. Percy. No. 951,512; Mar. 8; Sp. p. 2137; Gaz. vol. 152; p. 370.
Gas apparatus, Producer-. H. P. Hill. No. 952,739; Mar. 22; Sp. p. 4648; Gaz. vol. 152; p. 842.
Gas apparatus, Vertical-retort. J. H. Taussig. No. 951,856; Mar. 15; Sp. p. 2841; Gaz. vol. 152; p. 517.
Gas apparatus, Water-. F. B. Dougherty. No. 960,839; June 7; Sp. p. 1214; Gaz. vol. 155; p. 202.
Gas apparatus, Water-. R. M. Searle. No. 969,411; Sept. 6; Sp. p. 553; Gaz. vol. 158; p. 89.
Gas, Appliance for controlling the making of water-. H. N. Cheney. No. 978,268; Dec. 13; Sp. p. 1852; Gaz. vol. 161; p. 324.
Gas-burner. E. C. Hock. No. 945,536; Jan. 4; Sp. p. 1142; Gaz. vol. 150; p. 176.
Gas-burner. H. C. Faber. No. 947,014; Jan. 18; Sp. p. 4488; Gaz. vol. 150; p. 738.
Gas-burner. P. J. Atzberger. No. 949,050; Feb. 15; Sp. p. 2684; Gaz. vol. 151; p. 478.
Gas-burner. J. Davis. No. 949,676; Feb. 15; Sp. p. 3934; Gaz. vol. 151; p. 685.
Gas-burner. T. H. Mintier and H. J. Jennings. No. 951,828; Mar. 15; Sp. p. 2771; Gaz. vol. 152; p. 507.
Gas-burner. C. L. Bean. No. 955,308; Apr. 19; Sp. p. 3479; Gaz. vol. 153; p. 617.
Gas-burner. E. Meyer-Zimmerli. No. 957,358; May 10; Sp. p. 1862; Gaz. vol. 154; p. 324.
Gas-burner. L. De Pasquale. No. 958,102; May 17; Sp. p. 3613; Gaz. vol. 154; p. 609.
Gas-burner. B. E. Meacham. No. 959,244; May 24; Sp. p. 6133; Gaz. vol. 154; p. 1024.
Gas-burner. G. Helps. No. 962,834; June 28; Sp. p. 5475; Gaz. vol. 155; p. 957.
Gas-burner. L. C. Hiller. No. 966,548; Aug. 9; Sp. p. 1542; Gaz. vol. 157; p. 263.

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Gas-burner. A. G. McKee. No. 967,417; Aug. 16; Sp. p. 3396; Gaz. vol. 157; p. 585.
Gas-burner. M. Dean. No. 968,032; Aug. 23; Sp. p. 4662; Gaz. vol. 157; p. 814.
Gas-burner. L. Mellinkoff. No. 968,176; Aug. 23; Sp. p. 5003; Gaz. vol. 157; p. 863.
Gas-burner. W. R. Wulfeck. No. 969,021; Aug. 30; Sp. p. 6771; Gaz. vol. 157; p. 1179.
Gas-burner. W. H. Hurley. No. 970,056; Sept. 13; Sp. p. 1979; Gaz. vol. 158; p. 335.
Gas-burner. F. Mummelthey. No. 970,382; Sept. 13; Sp. p. 2634; Gaz. vol. 158; p. 444.
Gas-burner. J. H. Carver. No. 971,117; Sept. 27; Sp. p. 4207; Gaz. vol. 158; p. 742.
Gas-burner. C. Hoff. No. 972,697; Oct. 11; Sp. p. 2577; Gaz. vol. 159; p. 439.
Gas-burner. R. C. Hawk. No. 973,040; Oct. 18; Sp. p. 3380; Gaz. vol. 159; p. 585.
Gas-burner. B. A. Geurink. No. 973,498; Oct. 25; Sp. p. 4377; Gaz. vol. 159; p. 766.
Gas-burner. W. Donley and C. Paul. No. 974,040; Oct. 25; Sp. p. 5509; Gaz. vol. 159; p. 955.
Gas-burner. C. A. Johnson. No. 974,671; Nov. 1; Sp. p. 1340; Gaz. vol. 160; p. 208.
Gas-burner. E. P. Killgore and R. W. Bosworth. No. 975,253; Nov. 8; Sp. p. 2661; Gaz. vol. 160; p. 430.
Gas-burner. H. Ruppert. No. 977,904; Dec. 6; Sp. p. 1052; Gaz. vol. 161; p. 167.
Gas-burner. A. Beler. No. 979,734; Dec. 27; Sp. p. 5008; Gaz. vol. 161; p. 874.
Gas burner, Alcohol-. W. E. Cochran. No. 948,982; Feb. 8; Sp. p. 2526; Gaz. vol. 151; p. 429.
Gas burner and grate. W. C. McGeorge. No. 972,775; Oct. 11; Sp. p. 2738; Gaz. vol. 159; p. 466.
Gas-burner and hot-water heater, Combined. W. A. Feabrantz. No. 953,262; Mar. 29; Sp. p. 5773; Gaz. vol. 152; p. 1045.
Gas-burner attachment. M. G. Ray. No. 978,207; Dec. 13; Sp. p. 1717; Gaz. vol. 161; p. 302.
Gas-burner, Automatic. R. G. Jamison. No. 957,342; May 10; Sp. p. 1832; Gaz. vol. 154; p. 319.
Gas-burner, Blast-furnace-stove. A. G. McKee. No. 975,556; Nov. 15; Sp. p. 3303; Gaz. vol. 160; p. 561.
Gas-burner-controlling device. J. V. Wengelin. No. 957,591; May 10; Sp. p. 2314; Gaz. vol. 154; p. 402.
Gas-burner for flare-lights. C. C. Wakefield. No. 960,127; May 31; Sp. p. 8025; Gaz. vol. 154; p. 1348.
Gas-burner for heating purposes. G. B. Damon. No. 971,429; Sept. 27; Sp. p. 4823; Gaz. vol. 158; p. 844.
Gas-burner for inverted and upright incandescent lights, Incandescent. F. Kratky. No. 959,760; May 31; Sp. p. 7197; Gaz. vol. 154; p. 1221.
Gas-burner, Heating. J. and F. Marik. No. 966,343; Aug. 2; Sp. p. 1032; Gaz. vol. 157; p. 166.
Gas burner, Hydrocarbon-. L. F. Millard. No. 960,366; June 7; Sp. p. 265; Gaz. vol. 155; p. 45.
Gas-burner, Inverted. J. Lederer. No. 955,973; Apr. 26; Sp. p. 4952; Gaz. vol. 153; p. 875.
Gas-burner, Inverted. E. Steil. No. 961,040; June 7; Sp. p. 1613; Gaz. vol. 155; p. 270.
Gas-burner, Inverted incandescent. K. A. A. Staahlgren. No. 970,275; Sept. 13; Sp. p. 2429; Gaz. vol. 158; p. 409.
Gas-burner mixer. B. A. Geurink. No. 946,345; Jan. 11; Sp. p. 2931; Gaz. vol. 150; p. 486.
Gas burner, Natural-. C. E. Bunner. No. 972,056; Oct. 4; Sp. p. 1188; Gaz. vol. 159; p. 200.
Gas burner, Oil-. C. C. Lillibridge. No. 956,114; Apr. 26; Sp. p. 5251; Gaz. vol. 153; p. 924.
Gas burner or heater. C. F. Holtmann. No. 959,343; May 24; Sp. p. 6326; Gaz. vol. 154; p. 1058.
Gas-burner safety attachment. C. Liaci. No. 948,334; Feb. 8; Sp. p. 1149; Gaz. vol. 151; p. 211.
Gas-burner, Self-igniting. H. Ruppert. No. 949,599; Feb. 15; Sp. p. 3798; Gaz. vol. 151; p. 661.
Gas-burner, Self-lighting. J. R. Stanton, F. M. D'Arsi, and W. F. Munzer. No. 972,938; Oct. 18; Sp. p. 3157; Gaz. vol. 159; p. 551.
Gas-burners, Regulating device for the feed-conduits of. E. Steil. No. 965,045; July 19; Sp. p. 4440; Gaz. vol. 156; p. 739.
Gas-burners, Shade-holder for inverted. S. F. Elkins. No. 960,630; June 7; Sp. p. 803; Gaz. vol. 155; p. 132.
Gas-check pad. G. Gerdom. No. 968,762; Aug. 30; Sp. p. 6257; Gaz. vol. 157; p. 1093.
Gas-cleaner. P. Meehan. No. 955,651; Apr. 19; Sp. p. 4235; Gaz. vol. 153; p. 734.
Gas-cleaner. L. P. Lowe. No. 967,212; Aug. 16; Sp. p. 2967; Gaz. vol. 157; p. 514.
Gas-cleaning apparatus. J. Morgan. No. 948,062; Feb. 1; Sp. p. 598; Gaz. vol. 151; p. 96.
Gas-cleaning apparatus. D. S. Anthony. No. 971,481; Sept. 27; Sp. p. 4914; Gaz. vol. 158; p. 861.
Gas-cleaning method and apparatus. H. A. Brassert and A. G. Witting. No. 969,769; Sept. 13; Sp. p. 1336; Gaz. vol. 158; p. 236.
Gas-collecting mains, Automatic pressure-regulator for. O. F. Greim. No. 974,260; Nov. 1; Sp. p. 405; Gaz. vol. 160; p. 59.
Gas-compressor. R. W. Emerson and F. Bishop. No. 962,203; June 21; Sp. p. 4121; Gaz. vol. 155; p. 715.
Gas connection for outlet-boxes. L. H. Church. No. 979,652; Dec. 27; Sp. p. 4829; Gaz. vol. 161; p. 847.
Gas container, Acetylene-. C. W. Kaiser. No. 980,158; Dec. 27; Sp. p. 5947; Gaz. vol. 161; p. 1015.
Gas-controller. F. E. Youngs. No. 968,021; Aug. 23; Sp. p. 4637; Gaz. vol. 157; p. 810.
Gas-controller. F. E. Youngs. No. 971,099; Sept. 27; Sp. p. 4179; Gaz. vol. 158; p. 737.
Gas-controller, Automatic. J. C. Landes. No. 974,980; Nov. 8; Sp. p. 2063; Gaz. vol. 160; p. 336.
Gas-controlling device. W. C. Simmons. No. 959,397; May 24; Sp. p. 6424; Gaz. vol. 154; p. 1074.
Gas-controlling device. H. Epstein and D. Lubinsky. No. 968,457; Aug. 23; Sp. p. 5564; Gaz. vol. 157; p. 960.
Gas cut-off. J. F. Wells. No. 962,280; June 21; Sp. p. 4289; Gaz. vol. 155; p. 741.
Gas cut-off, Automatic. J. H. Skillcorn. No. 961,904; June 21; Sp. p. 3458; Gaz. vol. 155; p. 612.
Gas cut-off, Automatic. L. and H. Schmidt. No. 970,122; Sept. 13; Sp. p. 2095; Gaz. vol. 158; p. 357.
Gas-distributing system. G. A. Hanly and G. R. Martin. No. 976,734; Nov. 22; Sp. p. 5815; Gaz. vol. 160; p. 985.
Gas-distributing systems, Operating recording apparatus in. F. L. Cross. No. 966,314; Aug. 2; Sp. p. 984; Gaz. vol. 157; p. 158.
Gas-drip, Automatic. O. Justus. No. 974,889; Nov. 8; Sp. p. 1830; Gaz. vol. 160; p. 305.
Gas economizer and purifier. J. W. Carpenter. No. 974,551; Nov. 1; Sp. p. 1100; Gaz. vol. 160; p. 166.
Gas, electric, and combination fixture. L. W. Andersen. No. 965,841; July 26; Sp. p. 6146; Gaz. vol. 156; p. 1042.
Gas electrically, Apparatus for treating. C. L. Gerrard. No. 968,145; Aug. 23; Sp. p. 4915; Gaz. vol. 157; p. 852.
Gas-engine. W. P. Valentine. No. 945,296; Jan. 4; Sp. p. 632; Gaz. vol. 150; p. 98.
Gas-engine. W. P. Valentine. No. 945,297; Jan. 4; Sp. p. 634; Gaz. vol. 150; p. 99.
Gas-engine. G. Dorffel. No. 947,226; Jan. 25; Sp. p. 4895; Gaz. vol. 150, p. 835.
Gas-engine. D. H. Bennett. No. 948,950; Feb. 8; Sp. p. 2457; Gaz. vol. 151; p. 417.
Gas-engine. W. S. Kellogg, Jr. No. 950,395; Feb. 22; Sp. p. 5520; Gaz. vol. 151; p. 967.
Gas-engine. J. Kellington. No 951,079; Mar. 1; Sp. p. 1247; Gaz. vol. 152; p. 205.
Gas-engine. G. W. Weller. No. 951,353; Mar. 8; Sp. p. 1811; Gaz. vol. 152; p. 317.
Gas-engine. W. L. Morrow. No. 954,577; Apr. 12; Sp. p. 1875; Gaz. vol. 153; p. 335.
Gas-engine. L. C. Vanderlip. No. 957,017; May 3; Sp. p. 1123; Gaz. vol. 154; p. 177.
Gas-engine. J. A. Baab. No. 958,211; May 17; Sp. p. 3831; Gaz. vol. 154; p. 647.
Gas-engine. R. J. Leach. No. 958,881; May 24; Sp. p. 5387; Gaz. vol. 154; p. 903.
Gas-engine. J. V. Rice, Jr. No. 958,975; May 24; Sp. p. 5571; Gaz. vol. 154; p. 936.
Gas-engine. C. Beckmann. No. 960,063; May 31; Sp. p. 7909; Gaz. vol. 154; p. 1328.
Gas-engine. A. Burnett. No. 960,498; June 7; Sp. p. 518; Gaz. vol. 155; p. 86.
Gas-engine. D. W. Lyon. No. 960,978; June 7; Sp. p. 1479; Gaz. vol. 155; p. 248.
Gas-engine. W. G. Abbott, Jr. No. 961,059; June 7; Sp. p. 1647; Gaz. vol. 155; p. 276.
Gas-engine. C. G. Sprado. No. 961,079; June 7; Sp. p. 1701; Gaz. vol. 155; p. 282.
Gas-engine. F. O. Kilgore. No. 962,437; June 28; Sp. p. 4633; Gaz. vol. 155; p. 819.
Gas-engine. S. J. Webb. No. 962,995; June 28; Sp. p. 5771; Gaz. vol. 155; p. 1010.
Gas-engine. A. G. Pace. No. 963,243; July 5; Sp. p. 542; Gaz. vol. 156; p. 77.
Gas-engine. N. De Long. No. 967,735; Aug. 16; Sp. p. 4036; Gaz. vol. 157; p. 691.
Gas-engine. B. M. Aslakson. No. 968,636; Aug. 30; Sp. p. 5958; Gaz. vol. 157; p. 1049.
Gas-engine. G. R. Morris. No. 971,919; Oct. 4; Sp. p. 877; Gaz. vol. 159; p. 151.
Gas-engine. G. P. Law. No. 972,547; Oct. 11; Sp. p. 2251; Gaz. vol. 159; p. 388.
Gas-engine. J. M. Kroyer. No. 973,118; Oct. 18; Sp. p. 3533; Gaz. vol. 159; p. 611.
Gas-engine. C. M. Leech. No. 973,792; Oct. 25; Sp. p. 4988; Gaz. vol. 159; p. 867.
Gas-engine. C. Erickson and J. Pearson. No. 975,024; Nov. 8; Sp. p. 2155; Gaz. vol. 160; p. 351.
Gas-engine. J. B. Brown. No. 976,034; Nov. 15; Sp. p. 4258; Gaz. vol. 160; p. 722.
Gas-engine. E. F. Prall. No. 976,691; Nov. 22; Sp. p. 5732; Gaz. vol. 160; p. 971.
Gas-engine. E. E. Savard and W. E. Jones. No. 977,752; Dec. 6; Sp. p. 728; Gaz. vol. 161; p. 114.
Gas-engine having automatic exhaust-openings therein. A. Matson. No. 977,667; Dec. 6; Sp. p. 558; Gaz. vol. 161; p. 85.
Gas-engine, Reciprocating. W. M. Leedom. No. 959,019; May 24; Sp. p. 5648; Gaz. vol. 154; p. 949.
Gas-engine, Reversing. D. Schlegel. No. 964,564; July 19; Sp. p. 3362; Gaz. vol. 156; p. 574.

Gas-engine, Revolving. G. Haniquet. No. 965,385; July 26; Sp. p. 5144; Gaz. vol. 156; p. 883.
Gas-engine, Two-cycle. J. M., A. C., and A. Johnson. No. 948,860; Feb. 8; Sp. p. 2281; Gaz. vol. 151; p. 388.
Gas-engine, Two-cycle. O. H. Dorer. No. 961,111; June 14; Sp. p. 1759; Gaz. vol. 155; p. 319.
Gas-engine, Two-cycle. R. J. Leach. No. 968,244; Aug. 23; Sp. p. 5147; Gaz. vol. 157; p. 886.
Gas explosion-engine. W. S. Kellogg, Jr. No. 950,155; Feb. 22; Sp. p. 5039; Gaz. vol. 151; p. 886.
Gas-feed for vacuum-tubes, Automatic. D. M. Moore. No. 968,677; Aug. 30; Sp. p. 6075; Gaz. vol. 157; p. 1064.
Gas-feed for vacuum-tubes, Automatic. D. M. Moore. No. 975,149; Nov. 8; Sp. p. 2422; Gaz. vol. 160; p. 393.
Gas feeding and mixing device. F. E. Dillon. No. 953,820; Apr. 5; Sp. p. 281; Gaz. vol. 153; p. 49.
Gas-filter. G. S. Linn. No. 975,262; Nov. 8; Sp. p. 2676; Gaz. vol. 160; p. 432.
Gas-fire-lighting device. C. C. Vail. No. 956,868; May 3; Sp. p. 803; Gaz. vol. 154; p. 127.
Gas-fitting. W. Corbridge. No. 976,987; Nov. 29; Sp. p. 6437; Gaz. vol. 160; p. 1099.
Gas-fixture. A. Jarmolowsky. No. 946,226; Jan. 11; Sp. p. 2670; Gaz. vol. 150; p. 444.
Gas-fixture attachment. U. K. Herfurth. No. 961,959; June 21; Sp. p. 3580; Gaz. vol. 155; p. 631.
Gas-fixture, Automatic. E. M. Johnson. No. 956,531; May 3; Sp. p. 50; Gaz. vol. 154; p. 11.
Gas-fixture, Inverted. G. Breck. No. 958,357; May 17; Sp. p. 4286; Gaz. vol. 154; p. 699.
Gas flash-light. J. Spring. No. 972,278; Oct. 11; Sp. p. 1674; Gaz. vol. 159; p. 294.
Gas for illuminating, heating, or power purposes, Manufacture of. H. S. Elworthy. No. 950,067; Feb. 22; Sp. p. 4868; Gaz. vol. 151; p. 857.
Gas for inflating aerostats, Manufacturing. O. Nauss. No. 965,482; July 26; Sp. p. 5358; Gaz. vol. 156; p. 917.
Gas from garbage, Manufacture of. R. Thomas. No. 969,733; Sept. 6; Sp. p. 1238; Gaz. vol. 158; p. 199.
Gas from liquid-hydrocarbon fuels, Making fixed. H. A. Grine. No. 952,989; Mar. 22; Sp. p. 5157; Gaz. vol. 152; p. 926.
Gas from oil, Apparatus for generating. P. Meyer. No. 952,127; Mar. 15; Sp. p. 3370; Gaz. vol. 152; p. 606.
Gas from peat, Making. P. J. Buckley. No. 951,799; Mar. 15; Sp. p. 2724; Gaz. vol. 152; p. 498.
Gas-furnace, Regenerative. G. H. Benjamin. No. 948,538; Feb. 8; Sp. p. 1592; Gaz. vol. 151; p. 281.
Gas-furnace. W. A. Lynch. No. 971,859; Oct. 4; Sp. p. 739; Gaz. vol. 159; p. 129.
Gas generating and supply systems, Regulator for. F. L. Cross. No. 974,555; Nov. 1; Sp. p. 1105; Gaz. vol. 160; p. 167.
Gas-generating apparatus. H. H. Eason. No. 955,585; Apr. 19; Sp. p. 4077; Gaz. vol. 153; p. 711.
Gas-generating apparatus. A. D. Brasson and A. A. Yankee. No. 969,085; Aug. 30; Sp. p. 6897; Gaz. vol. 157; p. 1201.
Gas-generating apparatus, Acetylene-. S. F. Hodges and W. H. Lee. No. 972,858; Oct. 18; Sp. p. 2937; Gaz. vol. 159; p. 521.
Gas-generator. C. E. Beeman. No. 947,323; Jan. 25; Sp. p. 5151; Gaz. vol. 150; p. 869.
Gas-generator. E. R. Dull. No. 947,572; Jan. 25; Sp. p. 5737; Gaz. vol. 150; p. 953.
Gas-generator. E. E. Hancock and C. F. Arnold. No. 951,501; Mar. 8; Sp. p. 2119; Gaz. vol. 152; p. 367.
Gas-generator. G. A. Heckert. No. 954,099; Apr. 5; Sp. p. 850; Gaz. vol. 153; p. 146.
Gas-generator. W. A. Wallace. No. 960,745; June 7; Sp. p. 1022; Gaz. vol. 155; p. 172.
Gas-generator. N. Goodyear. No. 967,183; Aug. 16; Sp. p. 2910; Gaz. vol. 157; p. 504.
Gas-generator. A. Harris. No. 972,188; Oct. 11; Sp. p. 1478; Gaz. vol. 159; p. 263.
Gas-generator. E. Brauss. No. 974,639; Nov. 1; Sp. p. 1281; Gaz. vol. 160; p. 197.
Gas-generator. W. A. Wallace. No. 975,910; Nov. 15; Sp. p. 4030; Gaz. vol. 160; p. 680.
Gas-generator. G. Poe. No. 978,641; Dec. 13; Sp. p. 2670; Gaz. vol. 161; p. 454.
Gas generator, Acetylene-. O. W. Peterson. No. 945,588; Jan. 4; Sp. p. 1249; Gaz. vol. 150; p. 194.
Gas generator, Acetylene-. W. A. Ready. No. 946,269; Jan. 11; Sp. p. 2774; Gaz. vol. 150; p. 461.
Gas generator, Acetylene-. A. Dér and M. Fischer. No. 948,089; Feb. 1; Sp. p. 650; Gaz. vol. 151; p. 105.
Gas generator, Acetylene-. J. J. Kokesh. No. 949,960; Feb. 22; Sp. p. 4588; Gaz. vol. 151; p. 820.
Gas generator, Acetylene-. O. K. Stuart. No. 950,310; Feb. 22; Sp. p. 5362; Gaz. vol. 151; p. 941.
Gas generator, Acetylene-. R. B. Alison and W. G. Elliott. No. 951,097; Mar. 8; Sp. p. 1291; Gaz. vol. 152; p. 237.
Gas generator, Acetylene-. G. E. Johnson. No. 953,839; Apr. 5; Sp. p. 313; Gaz. vol. 153; p. 56.
Gas generator, Acetylene-. F. E. Stover. No. 955,997; Apr. 26; Sp. p. 4996; Gaz. vol. 153; p. 883.
Gas generator, Acetylene-. O. R. Moberley. No. 956,497; Apr. 26; Sp. p. 6102; Gaz. vol. 153; p. 1056.
Gas generator, Acetylene-. O. W. Peterson. No. 957,369; May 10; Sp. p. 1883; Gaz. vol. 154; p. 328.
Gas generator, Acetylene-. S. A. Miles. No. 957,698; May 10; Sp. p. 2540; Gaz. vol. 154; p. 440.
Gas generator, Acetylene-. M. W. Carrier. No. 959,994; May 31; Sp. p. 7737; Gaz. vol. 154; p. 1303.
Gas generator, Acetylene-. J. M. Flitcraft. No. 967,357; Aug. 16; Sp. p. 3251; Gaz. vol. 157; p. 564.
Gas generator, Acetylene-. D. O'Keefe. No. 970,100; Sept. 13; Sp. p. 2060; Gaz. vol. 158; p. 350.
Gas generator, Acetylene-. M. S. Mishler. No. 972,016; Oct. 4; Sp. p. 1112; Gaz. vol. 159; p. 186.
Gas generator, Acetylene-. W. W. Harris. No. 972,855; Oct. 18; Sp. p. 2925; Gaz. vol. 159; p. 520.
Gas generator, Acetylene-. W. H. Parker. No. 975,154; Nov. 8; Sp. p. 2433; Gaz. vol. 160; p. 395.
Gas generator, Acetylene-. V. E. Peterson. No. 976,135; Nov. 15; Sp. p. 4488; Gaz. vol. 160; p. 757.
Gas generator, Acetylene-. W. and A. J. Tobey. No. 978,511; Dec. 13; Sp. p. 2360; Gaz. vol. 161; p. 407.
Gas generator, Acetylene-. W. W. and A. J. Tobey. No. 978,512; Dec. 13; Sp. p. 2362; Gaz. vol. 161; p. 408.
Gas generator and burner, Oil-. G. Drummond. No. 958,861; May 24; Sp. p. 5331; Gaz. vol. 154; p. 896.
Gas generator, Portable acetylene-. O. A. Loveless. No. 956,384; Apr. 26; Sp. p. 5850; Gaz. vol. 153; p. 1017.
Gas-governor. M. Lees. No. 952,822; Mar. 22; Sp. p. 4841; Gaz. vol. 152; p. 871.
Gas-governor. E. L. Holmes. No. 966,096; Aug. 2; Sp. p. 535; Gaz. vol. 157; p. 87.
Gas-hanger. M. Nuberg, J. Mollien, and F. Boss. No. 945,860; Jan. 11; Sp. p. 1910; Gaz. vol. 150; p. 317.
Gas-heated iron. J. H. Brownlee. No. 969,033; Aug. 30; Sp. p. 6792; Gaz. vol. 157; p. 1183.
Gas-heater. A. Rector. No. 960,400; June 7; Sp. p. 334; Gaz. vol. 155; p. 56.
Gas-holder. H. Rauch. No. 967,672; Aug. 16; Sp. p. 3901; Gaz. vol. 157; p. 669.
Gas-holder emergency shut-off. R. M. Dixon. No. 978,861; Dec. 20; Sp. p. 3094; Gaz. vol. 161; p. 549.
Gas-holder guide-frame. H. J. Stoffels. No. 972,785; Oct. 11; Sp. p. 2758; Gaz. vol. 159; p. 469.
Gas-holder heating apparatus. L. Knorr. No. 968,167; Aug. 23; Sp. p. 4988; Gaz. vol. 157; p. 860.
Gas-igniter. C. L. Haase, Jr. No. 957,951; May 17; Sp. p. 3105; Gaz. vol. 154; p. 554.
Gas igniter and extinguisher. J. C. Landes. No. 952,205; Mar. 15; Sp. p. 3512; Gaz. vol. 152; p. 632.
Gas-igniter and safety device, Automatic. E. E. Gerald. No. 973,030; Oct. 18; Sp. p. 3364; Gaz. vol. 159; p. 582.
Gas-igniter, Automatic. E. E. Gerald. No. 974,565; Nov. 1; Sp. p. 1135; Gaz. vol. 160; p. 171.
Gas igniting and extinguishing device, Electrically-controlled. E. S. Allen. No. 958,574; May 17; Sp. p. 4707; Gaz. vol. 154; p. 773.
Gas ignition and control, Automatic. L. G. Bartlett. No. 953,985; Apr. 5; Sp. p. 598; Gaz. vol. 153; p. 107.
Gas ignition and control, Automatic. L. G. Bartlett. No. 962,113; June 21; Sp. p. 3924; Gaz. vol. 155; p. 684.
Gas-light, Inverted burner for incandescent. A. H. Humphrey. No. 955,874; Apr. 26; Sp. p. 4744; Gaz. vol. 153; p. 840.
Gas-light, Inverted incandescent. A. E. Shaw. No. 957,445; May 10; Sp. p. 2038; Gaz. vol. 154; p. 353.
Gas-lights, Manufacture of incandescent bodies for. M. von Unruh. No. 949,010; Feb. 15; Sp. p. 2594; Gaz. vol. 151; p. 465.
Gas lighter and extinguisher, Automatic. G. Robson. No. 975,160; Nov. 8; Sp. p. 2449; Gaz. vol. 160; p. 398.
Gas lighter and extinguisher, Automatic. G. Robson. No. 975,161; Nov. 8; Sp. p. 2457; Gaz. vol. 160; p. 398.
Gas-lighter, Automatic. J. C. Landes. No. 968,486; Aug. 23; Sp. p. 5621; Gaz. vol. 157; p. 970.
Gas-lighting apparatus. R. M. Dixon. No. 958,375; May 17; Sp. p. 4319; Gaz. vol. 154; p. 705.
Gas-lighting apparatus, Electric. D. M. Hartford, C. M. Taylor, and L. S. Stone. No. 959,525; May 31; Sp. p. 6715; Gaz. vol. 154; p. 1143.
Gas-lighting appliance. M. Primeau and G. McCullagh. No. 973,971; Oct. 25; Sp. p. 5348; Gaz. vol. 159; p. 930.
Gas-lighting device, Electric. R. A. Jewett. No. 971,010; Sept. 20; Sp. p. 3965; Gaz. vol. 158; p. 678.
Gas-lighting device, Electrical. E. R. Joseph. No. 966,690; Aug. 9; Sp. p. 1820; Gaz. vol. 157; p. 311.
Gas-lighting device, Time-controlled. H. W. Gates. No. 961,435; June 14; Sp. p. 2455; Gaz. vol. 155; p. 432.
Gas-lighting purposes, Diaphragm-controller for. J. M. Tourtel. No. 966,371; Aug. 2; Sp. p. 1092; Gaz. vol. 157; p. 176.
Gas-lighting systems, Regulator for. G. E. Hulse. No. 959,745; May 31; Sp. p. 7165; Gaz. vol. 154; p. 1216.
Gas-log. O. E. Hansen. No. 948,561; Feb. 8; Sp. p. 1652; Gaz. vol. 151; p. 288.
Gas machine, Acetylene-. B. F. Holdaway. No. 945,235; Jan. 4; Sp. p. 472; Gaz. vol. 150; p. 78.
Gas machine, Acetylene-. E. F. Kapus. No. 979,509; Dec. 27; Sp. p. 4506; Gaz. vol. 161; p. 795.
Gas machines, Constant-supply device for vaporizing fuel-. J. F. Barker, Jr. No. 962,611; June 28; Sp. p. 5024; Gaz. vol. 155; p. 879.
Gas-main, Hydraulic. S. Meunier. No. 958,518; May 17; Sp. p. 4600; Gaz. vol. 154; p. 755.

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Gas-main stopper. E. A. Behringer. No. 952,499; Mar. 22; Sp. p. 4122; Gaz. vol. 152; p. 759.
Gas-main stopper. P. Goodman. No. 960,086; May 31; Sp. p. 7949; Gaz. vol. 154; p. 1335.
Gas-mains, Automatic cut-off for. C. E. Lahmers. No. 946,515; Jan. 11; Sp. p. 3404; Gaz. vol. 150; p. 545.
Gas-mains, Automatic cut-off for. C. E. Lahmers. No. 975,259; Nov. 8; Sp. p. 2670; Gaz. vol. 160; p. 431.
Gas-making apparatus. P. A. Emanuel. No. 959,324; May 24; Sp. p. 6286; Gaz. vol. 154; p. 1051.
Gas-making apparatus, Producer-. W. O. Amsler. No. 974,945; Nov. 8; Sp. p. 1970; Gaz. vol. 160; p. 324.
Gas, Making producer-. L. P. Lowe. No. 967,213; Aug. 16; Sp. p. 2968; Gaz. vol. 157; p. 514.
Gas, Making producer-. W. O. Amsler. No. 979,818; Dec. 27; Sp. p. 5206; Gaz. vol. 161; p. 903.
Gas-mantle support. G. H. Huston. No. 969,630; Sept. 6; Sp. p. 1020; Gaz. vol. 158; p. 163.
Gas, Manufacture of. A. Zindler. No. 956,019; Apr. 26; Sp. p. 5041; Gaz. vol. 153; p. 891.
Gas, Manufacture of. W. B. Hughes. No. 977,874; Dec. 6; Sp. p. 991; Gaz. vol. 161; p. 156.
Gas, Manufacture of carbonic-acid. A. E. Knowles. No. 963,586; July 5; Sp. p. 1253; Gaz. vol. 156; p. 192.
Gas-manufacturing apparatus. H. W. Benner and A. G. Kelterborn. No. 950,779; Mar. 1; Sp. p. 688; Gaz. vol. 152; p. 110.
Gas-manufacturing apparatus. B. Loomis. No. 971,858; Oct. 4; Sp. p. 736; Gaz. vol. 159; p. 128.
Gas-meter. E. S. Halsey. No. 952,110; Mar. 15; Sp. p. 3335; Gaz. vol 152; p. 600.
Gas-meter. C. and R. W. Lawson. No. 970,627; Sept. 20; Sp. p. 3197; Gaz. vol. 158; p. 550.
Gas-meter. F. C. Viney. No. 971,705; Oct. 4; Sp. p. 405; Gaz. vol. 159; p. 70.
Gas-meter. J. W. Danaher. No. 974,775; Nov. 8; Sp. p. 1581; Gaz. vol. 160; p. 266.
Gas-meter, Drum. S. Koźminski. No. 974,079; Oct. 25; Sp. p. 5578; Gaz. vol. 159; p. 967.
Gas-meter, Dry. T. B. Wylie. No. 954,239; Apr. 5; Sp. p. 1161; Gaz. vol. 153; p. 194.
Gas-meter, Single-diaphragm. A. Henning. No. 952,806; Mar. 22; Sp. p. 4808; Gaz. vol. 152; p. 865.
Gas, Method of and apparatus for compressing. A. W. Fischer. No. 968,926; Aug. 30; Sp. p. 6584; Gaz. vol. 157; p. 1146.
Gas, Method of and apparatus for making. W. T. Cutter. No. 978,853; Dec. 20; Sp. p. 3071; Gaz. vol. 161; p. 546.
Gas, Method of and apparatus for producing. E. E. Slick. No. 957,006; May 3; Sp. p. 1099; Gaz. vol. 154; p. 173.
Gas-mixer. C. V. Pollock. No. 959,597; May 31; Sp. p. 6864; Gaz. vol. 154; p. 1168.
Gas-mixer-regulating device. P. Lulli. No. 975,444; Nov. 15; Sp. p. 3049; Gaz. vol. 160; p. 521.
Gas or electric lighting fixture. C. E. Ummach. No. 966,626; Aug. 9; Sp. p. 1698; Gaz. vol. 157; p. 290.
Gas or vapor engine. G. E. Ireland. No. 963,573; July 5; Sp. p. 1231; Gaz. vol. 156; p. 188.
Gas-pipe emergency cut-off. M. A. Horan. No. 958,126; May 17; Sp. p. 3659; Gaz. vol. 154; p. 617.
Gas plants, Pressure-regulator for. F. L. Cross. No. 958,725; May 24; Sp. p. 5006; Gaz. vol. 154; p. 847.
Gas-plate. H. W. Schulze. No. 966,480; Aug. 9; Sp. p. 1348; Gaz. vol. 157; p. 239.
Gas-ports, Water-back for. A. Wood, 3d. No. 968,018; Aug. 23; Sp. p. 4632; Gaz. vol. 157; p. 809.
Gas-pressure regulator. W. A. Fenton. No. 962,503; June 28; Sp. p. 4784; Gaz. vol. 155; p. 842.
Gas-pressure regulator. L. A. Merk. No. 977,820; Dec. 6; Sp. p. 870; Gaz. vol. 161; p. 137.
Gas-producer. J. R. George. No. 946,030; Jan. 11; Sp. p. 2264; Gaz. vol. 150; p. 377.
Gas-producer. T. Clouston. No. 946,820; Jan. 18; Sp. p. 4052; Gaz. vol. 150; p. 672.
Gas-producer. J. C. and J. A. Swindell. No. 947,065; Jan. 18; Sp. p. 4573; Gaz. vol. 150; p. 754.
Gas-producer. W. R. Miller. No. 947,118; Jan. 18; Sp. p. 4667; Gaz. vol. 150; p. 770.
Gas-producer. J. Reuleaux. No. 948,249; Feb. 1; Sp. p. 960; Gaz. vol. 151; p. 157.
Gas-producer. M. E. Crowell. No. 952,237; Mar. 15; Sp. p. 3577; Gaz. vol. 152; p. 643.
Gas-producer. J. C. and J. A. Swindell. No. 953,497; Mar. 29; Sp. p. 6287; Gaz. vol. 152; p. 1127.
Gas-producer. C. A. Harvey. No. 953,614; Mar. 29; Sp. p. 6531; Gaz. vol. 152; p. 1167.
Gas-producer. G. C. Stone and R. H. Dodd. No. 955,614; Apr. 19; Sp. p. 4148; Gaz. vol. 153; p. 722.
Gas-producer. G. C. Stone and R. H. Dodd. No. 955,615; Apr. 19; Sp. p. 4150; Gaz. vol. 153; p. 722.
Gas-producer. S. B. Sheldon. No. 956,199; Apr. 26; Sp. p. 5450; Gaz. vol. 153; p. 954.
Gas-producer. E. E. Slick. No. 957,007; May 3; Sp. p. 1102; Gaz. vol. 154; p. 173.
Gas-producer. R. P. Conkling. No. 965,086; July 19; Sp. p. 4521; Gaz. vol. 156; p. 753.
Gas-producer. W. Thomas. No. 966,718; Aug. 9; Sp. p. 1897; Gaz. vol. 157; p. 320.
Gas-producer. J. O. E. Trotz. No. 968,000; Aug. 23; Sp. p. 4583; Gaz. vol. 157; p. 803.
Gas-producer. W. C. Finck. No. 968,458; Aug. 23; Sp. p. 5567; Gaz. vol. 157; p. 960.
Gas-producer. G. J. Hagan. No. 969,273; Sept. 6; Sp. p. 259; Gaz. vol. 158; p. 42.
Gas-producer. E. Jones. No. 969,375; Sept. 6; Sp. p. 488; Gaz. vol. 158; p. 77.
Gas-producer. W. B. Chapman. No. 970,017; Sept. 13; Sp. p. 1891; Gaz. vol. 158; p. 322.
Gas-producer. W. B. Hughes. No. 971,271; Sept. 27; Sp. p. 4536; Gaz. vol. 158; p. 793.
Gas-producer. W. B. Hughes. No. 971,272; Sept. 27; Sp. p. 4538; Gaz. vol. 158; p. 794.
Gas-producer. W. B. Hughes. No. 977,651; Dec. 6; Sp. p. 525; Gaz. vol. 161; p. 79.
Gas-producer feeding mechanism. V. E. Edwards and J. R. George. No. 972,172; Oct. 11; Sp. p. 1441; Gaz. vol. 159; p. 258.
Gas-producer rotary grate. E. Hilger. No. 967,637; Aug. 16; Sp. p. 3833; Gaz. vol. 157; p. 658.
Gas-producer, Suction. C. L. Straub. No. 967,459; Aug. 16; Sp. p. 3465; Gaz. vol. 157; p. 597.
Gas-producers, Automatic water-regulator for. J. P. Nawn. No. 956,818; May 3; Sp. p. 693; Gaz. vol. 154; p. 109.
Gas-producers, Feeding mechanism for. J. C. and J. A. Swindell. No. 951,665; Mar. 8; Sp. p. 2446; Gaz. vol. 152; p. 423.
Gas-producers, Vaporizer for. B. M. Aslakson. No. 962,610; June 28; Sp. p. 5022; Gaz. vol. 155; p. 878.
Gas-producers, Water-regulator for. E. Sandner. No. 967,980; Aug. 23; Sp. p. 4537; Gaz. vol. 157; p. 797.
Gas, Producing. E. G. Jewett. No. 972,864; Oct. 18; Sp. p. 2949; Gaz. vol. 159; p. 523.
Gas, Producing. G. J. Weber. No. 978,970; Dec. 20; Sp. p. 3353; Gaz. vol. 161; p. 590.
Gas-producing apparatus. F. H. Treat. No. 975,657; Nov. 15; Sp. p. 3521; Gaz. vol. 160; p. 594.
Gas-producing furnace. R. Hilprecht. No. 979,951; Dec. 27; Sp. p. 5475; Gaz. vol. 161; p. 946.
Gas-producing oven. H. A. R. Bröker. No. 978,354; Dec. 13; Sp. p. 2026; Gaz. vol. 161; p. 353.
Gas-producing process, Peat-. J. D. Oligny. No. 977,469; Dec. 6; Sp. p. 90; Gaz. vol. 161; p. 17.
Gas-purifier. S. G. Merrick. No. 946,146; Jan. 11; Sp. p. 2493; Gaz. vol. 150; p. 416.
Gas-purifier. C. Wegescheidt. No. 964,719; July 19; Sp. p. 3780; Gaz. vol. 156; p. 629.
Gas-purifier. H. I. Lea. No. 968,370; Aug. 23; Sp. p. 5397; Gaz. vol. 157; p. 931.
Gas-purifying apparatus. E. Schmiedt. No. 955,915; Apr. 26; Sp. p. 4827; Gaz. vol. 153; p. 854.
Gas-purifying apparatus. E. Temple. No. 977,907; Dec. 6; Sp. p. 1056; Gaz. vol. 161; p. 168.
Gas, Recovering naphthalene from. R. H. Bots. No. 968,509; Aug. 23; Sp. p. 5686; Gaz. vol. 157; p. 979.
Gas-regulator. W. R. Park. No. 948,340; Feb. 8; Sp. p. 1162; Gaz. vol. 151; p. 213.
Gas-regulator. G. A. Hout. No. 962,959; June 28; Sp. p. 5699; Gaz. vol. 155; p. 998.
Gas-regulator. J. Doyle. No. 970,895; Sept. 20; Sp. p. 3763; Gaz. vol. 158; p. 642.
Gas-regulator. A. E. Westburg. No. 973,396; Oct. 18; Sp. p. 4154; Gaz. vol. 159; p. 708.
Gas-regulator. L. H. Miller. No. 974,691; Nov. 1; Sp. p. 1390; Gaz. vol. 160; p. 216.
Gas-retort furnace. R. M. Brooke. No. 949,674; Feb. 15; Sp. p. 3929; Gaz. vol. 151; p. 685.
Gas-retort furnace. E. L. Rieha. No. 962,051; June 21; Sp. p. 3769; Gaz. vol. 155; p. 662.
Gas-retorts. Charging upright. E. G. B. Körting. No. 955,970; Apr. 26; Sp. p. 4949; Gaz. vol. 153; p. 874.
Gas-retorts or coke-ovens, Machine for discharging and charging. A. M. Duckham. No. 974,043; Oct. 25; Sp. p. 5514; Gaz. vol. 159; p. 956.
Gas safety device. R. H. Cowdrey. No. 954,783; Apr. 12; Sp. p. 2356; Gaz. vol. 153; p. 407.
Gas-scrubber. A. Steinbart. No. 965,248; July 26; Sp. p. 4845; Gaz. vol. 156; p. 837.
Gas-scrubber. E. Yawger. No. 968,307; Aug. 23; Sp. p. 5271; Gaz. vol. 157; p. 908.
Gas-scrubber. E. F. Lloyd. No. 973,120; Oct. 18; Sp. p. 3535; Gaz. vol. 159; p. 612.
Gas-scrubber. W. McArthur. No. 975,054; Nov. 8; Sp. p. 2219; Gaz. vol. 160; p. 361.
Gas-scrubber apparatus. A. M. Gow. No. 945,936; Jan. 11; Sp. p. 2075; Gaz. vol. 150; p. 345.
Gas-separator. W. McArthur. No. 954,454; Apr. 12; Sp. p. 1608; Gaz. vol. 153; p. 294.
Gas-service pipes, Automatic cut-off for. J. C. Klassen. No. 963,157; July 5; Sp. p. 332; Gaz. vol. 156; p. 47.
Gas sterilizer and purifier. V. Ernsberger. No. 949,032; Feb. 15; Sp. p. 2650; Gaz. vol. 151; p. 472.
Gas-supply-connection safety device. W. Getley. No. 970,490; Sept. 20; Sp. p. 2869; Gaz. vol. 158; p. 501.
Gas-supply-controlling device. H. O. Ewing. No. 948,724; Feb. 8; Sp. p. 2004; Gaz. vol. 151; p. 343.
Gas-supply system. H. D. Donnell. No. 961,745; June 14; Sp. p. 3107; Gaz. vol. 155; p. 536.
Gas-tank. H. Watson. No. 966,968; Aug. 9; Sp. p. 2449; Gaz. vol. 157; p. 403.

Gas tanks, Packing for acetylene-. S. Dickson. No. 962,199; June 21; Sp. p. 4117; Gaz. vol. 155; p. 714.
Gas-valve, Pressure-controlled. F. B. Shuster. No. 966,611; Aug. 9; Sp. p. 1664; Gaz. vol. 157; p. 284.
Gas-washing machine. W. H. Carrier. No. 973,626; Oct. 25; Sp. p. 4649; Gaz. vol. 159; p. 808.
Gases, Absorbing dilute nitrous. B. F. Halvorsen. No. 948,726; Feb. 8; Sp. p. 2010; Gaz. vol. 151; p. 344.
Gases, Apparatus for removing tar from coal-. E. Solvay. No. 963,401; July 5; Sp. p. 887; Gaz. vol. 156; p. 130.
Gases, Apparatus for treating burner-. J. B. F. Herreshoff. No. 955,067; Apr. 12; Sp. p. 2970; Gaz. vol. 153; p. 504.
Gases, Burning. H. E. Parson. No. 958,428; May 17; Sp. p. 4417; Gaz. vol. 154; p. 723.
Gases, Cooling and liquefying. G. Hildebrandt. No. 962,836; June 28; Sp. p. 5477; Gaz. vol. 155; p. 957.
Gases, Extraction of tar and tar constituents from. W. Feld. No. 965,147; July 19; Sp. p. 4632; Gaz. vol. 156; p. 773.
Gases from a furnace for firing further furnaces, Utilizing spent fire-. H. Uihlein. No. 964,341; July 12; Sp. p. 2844; Gaz. vol. 156; p. 469.
Gases from their mixtures, Separation of. R. J. Lévy and A. Helbronner. No. 957,170; May 3; Sp. p. 1427; Gaz. vol. 154; p. 229.
Gases in drying operations, Apparatus and process for controlling humidity of. H. D. Tiemann. No. 963,832; July 12; Sp. p. 1813; Gaz. vol. 156; p. 298.
Gases, Indicating and measuring device for use in mines or wherever desired to detect the presence of combustible. H. H. Clark. No. 960,823; June 7; Sp. p. 1180; Gaz. vol. 155; p. 197.
Gases, Liquefying. G. Claude. No. 967,104; Aug. 9; Sp. p. 2741; Gaz. vol. 157; p. 449.
Gases, Means for indicating and recording the calorific value of. F. Sawford. No. 977,970; Dec. 6; Sp. p. 1194; Gaz. vol. 161; p. 191.
Gases, Process and apparatus for utilizing the energy of waste. J. Weise and F. Rieche. No. 962,108; June 21; Sp. p. 3913; Gaz. vol. 155; p. 682.
Gases, Purifying blast-furnace and other. F. Sepulchre. No. 970,654; Sept. 20; Sp. p. 3243; Gaz. vol. 158; p. 558.
Gases, Separating dust from. H. Howard. No. 970,053; Sept. 13; Sp. p. 1973; Gaz. vol. 158; p. 335.
Gases, Separating various materials from. W. J. Baldwin. No. 950,607; Mar. 1; Sp. p. 302; Gaz. vol. 152; p. 49.
Gases, &c., Separation of. R. J. Lévy and A. Helbronner. No. 959,563; May 31; Sp. p. 6800; Gaz. vol. 154; p. 1157.
Gases, Treating burner-. J. B. F. Herreshoff. No. 969,868; Sept. 13; Sp. p. 1572; Gaz. vol. 158; p. 270.
Gases, Treating combustible. H. L. Doherty. No. 964,901; July 19; Sp. p. 4153; Gaz. vol. 156; p. 692.
Gases, Utilizing nitrous. K. Birkeland. No. 948,158; Feb. 1; Sp. p. 780; Gaz. vol. 151; p. 128.
Gaseous-fluid mixer. H. W. Webb and E. H. Stickels. No. 971,332; Sept. 27; Sp. p. 4646; Gaz. vol. 158; p. 813.
Gaseous-fluid mixer. H. W. Webb and E. H. Stickels. No. 976,415; Nov. 22; Sp. p. 5168; Gaz. vol. 160; p. 878.
Gaseous-fuel burner. H. and C. Schneider. No. 962,472; June 28; Sp. p. 4715; Gaz. vol. 155; p. 831.
Gaseous mixtures into their elements, Separation of. G. Claude and R. J. Lévy. No. 967,105; Aug. 9; Sp. p. 2746; Gaz. vol. 157; p. 450.
Gaseous mixtures, Means for measuring or analyzing. B. C. Hinman. No. 970,923; Sept. 20; Sp. p. 3811; Gaz. vol. 158; p. 650.
Gassing apparatus. J. O. McKean. No. 948,934; Feb. 8; Sp. p. 2415; Gaz. vol. 151; p. 412.
Gassing-machine. J. O. McKean. No. 948,935; Feb. 8; Sp. p. 2418; Gaz. vol. 151; p. 412.
Gasket. W. A. Schultheis. No. 956,188; Apr. 26; Sp. p. 5434; Gaz. vol. 153; p. 951.
Gasket. W. A. Schultheis. No. 965,022; July 19; Sp. p. 4382; Gaz. vol. 156; p. 731.
Gasket. W. S. Locke. No. 967,650; Aug. 16; Sp. p. 3857; Gaz. vol. 157; p. 662.
Gasket for hose-couplings. R. S. MacEwan. No. 947,645; Jan. 25; Sp. p. 5890; Gaz. vol. 150; p. 977.
Gasket for pipe-joints. F. J. Randall. No. 949,658; Feb. 15; Sp. p. 3908; Gaz. vol. 151; p. 681.
Gasket, Packing-. J. W. Miller. No. 952,128; Mar. 15; Sp. p. 3376; Gaz. vol. 152; p. 607.
Gasket-tool. E. Gibson and J. Burns. No. 971,672; Oct. 4; Sp. p. 342; Gaz. vol. 159; p. 60.
Gaskets, Manufacturing. J. M. Towne. No. 966,873; Aug. 9; Sp. p. 2262; Gaz. vol. 157; p. 371.
Gaskets, Retaining-spring for. J. E. Ward. No. 951,584; Mar. 8; Sp. p. 2276; Gaz. vol. 152; p. 395.
Gasolene-burner. A. J. Blackford. No. 952,412; Mar. 15; Sp. p. 3923; Gaz. vol. 152; p. 702.
Gasolene-engine. J. C. Bonnett. No. 956,881; May 3; Sp. p. 827; Gaz. vol. 154; p. 832.
Gasolene-engine. E. Vanderlip. No. 957,278; May 10; Sp. p. 1694; Gaz. vol. 154; p. 297.
Gasolene-engine. C. C. Jones. No. 963,898; July 12; Sp. p. 1946; Gaz. vol. 156; p. 319.
Gasolene-engine. G. C. Fain. No. 978,867; Dec. 20; Sp. p. 3105; Gaz. vol. 161; p. 551.
Gasolene-feed. A. W. Hofacker. No. 948,279; Feb. 1; Sp. p. 1018; Gaz. vol. 151; p. 167.
Gasolene-indicator. M. H. Preston. No. 952,356; Mar. 15; Sp. p. 3822; Gaz. vol. 152; p. 683.
Gasolene-strainer. J. B. Rickards and W. H. Geiger. No. 973,305; Oct. 18; Sp. p. 3954; Gaz. vol. 159; p. 676.
Gate: *See* Automatic gate; Automatically-operated gate; Bridge-gate; Bridge safety-gate; Car-gate; Car safety-gate; Ditch-gate; Electric automatically-operated gate; Elevator-gate; End-gate; Farm-gate; Fence-gate; Flood-gate; Flood and feed gate; Flume-gate; Folding gate; Head-gate; Hose-gate; Irrigating-pipe gate; Railway-gate; Railway-crossing gate; Reservoir head-gate; Rotatable gate; Safety-gate; Self-closing gate; Sliding gate; Sluice-gate; Starting-gate; Swinging gate; Water-gate.
Gate. F. E. Quigle. No. 945,418; Jan. 4; Sp. p. 896; Gaz. vol. 150; p. 139.
Gate. I. L. Landis. No. 948,229; Feb. 1; Sp. p. 921; Gaz. vol. 151; p. 151.
Gate. J. W. Matthews. No. 948,788; Feb. 8; Sp. p. 2143; Gaz. vol. 151; p. 365.
Gate. H. W. Street. No. 948,869; Feb. 8; Sp. p. 2298; Gaz. vol. 151; p. 391.
Gate. W. E. Reed. No. 952,758; Mar. 22; Sp. p. 4699; Gaz. vol. 152; p. 849.
Gate. A. W. Sprague and T. E. Mulroyan. No. 953,066; Mar. 29; Sp. p. 5338; Gaz. vol. 152; p. 982.
Gate. C. M Clark, F. J. Bullock, and E. D. Watkins. No. 957,745; May 10; Sp. p. 2640; Gaz. vol. 154; p. 455.
Gate. J. W. Crates and F. Longbrake. No. 958,695; May 17; Sp. p. 4937; Gaz. vol. 154; p. 811.
Gate. W. A. Law. No. 960,351; June 7; Sp. p. 233; Gaz. vol. 155; p. 39.
Gate. E. Stebbings. No. 961,551; June 14; Sp. p. 2715; Gaz. vol. 155; p. 471.
Gate. I. N. Graham and J. G. Dula. No. 961,606; June 14; Sp. p. 2826; Gaz. vol. 155; p. 489.
Gate. E. J. Myers. No. 963,624; July 5; Sp. p. 1327; Gaz. vol. 156; p. 205.
Gate. N. Williams. No. 964,137; July 12; Sp. p. 2440; Gaz. vol. 156; p. 401.
Gate. W. J. Perritt. No. 964,545; July 19; Sp. p. 3305; Gaz. vol. 156; p. 566.
Gate. J. H. Pearson. No. 964,807; July 19; Sp. p. 3961; Gaz. vol. 156; p. 658.
Gate. R. E. Trombley. No. 965,420; July 26; Sp. p. 5213; Gaz. vol. 156; p. 895.
Gate. E. C. Compher. No. 966,167; Aug. 2; Sp. p. 700; Gaz. vol. 157; p. 110.
Gate. W. B. Simpson. No. 967,453; Aug. 16; Sp. p. 3456; Gaz. vol. 157; p. 596.
Gate. M. E. Gifford. No. 967,754; Aug. 16; Sp. p. 4074; Gaz. vol. 157; p. 698.
Gate. G. M. West. No. 969,678; Sept. 6; Sp. p. 1118; Gaz. vol. 158; p. 180.
Gate. L. A. Wheeling. No. 969,925; Sept. 13; Sp. p. 1687; Gaz. vol. 158; p. 290.
Gate. N. J. McAdams. No. 970,090; Sept. 13; Sp. p. 2040; Gaz. vol. 158; p. 346.
Gate. H. V. Doty and M. H. Kirkland. No. 975,516; Nov. 15; Sp. p. 3209; Gaz. vol. 160; p. 546.
Gate. B. J. Campbell. No. 976,119; Nov. 15; Sp. p. 4436; Gaz. vol. 160; p. 752.
Gate. B. F. Neudeck. No. 978,192; Dec. 13; Sp. p. 1683; Gaz. vol. 161; p. 296.
Gate. J. Horner. No. 979,302; Dec. 20; Sp. p. 4095; Gaz. vol. 161; p. 705.
Gate. I. Barker. No. 979,410; Dec. 27; Sp. p. 4303; Gaz. vol. 161; p. 763.
Gate-controlling apparatus. E. W. Vest. No. 965,422; July 26; Sp. p. 5220; Gaz. vol. 156; p. 895.
Gate-controlling mechanism, Head-. P. M. Fogg. No. 967,007; Aug. 9; Sp. p. 2529; Gaz. vol. 157; p. 416.
Gate-fastener. H. S. and J. K. Munsinger. No. 970,345; Sept. 13; Sp. p. 2559; Gaz. vol. 158; p. 432.
Gate fastener, Wire-fence-. A. N. Sandquist. No. 964,056; July 12; Sp. p. 2273; Gaz. vol. 156; p. 374.
Gate-fitting. I. L. Landis. No. 950,671; Mar. 1; Sp. p. 442; Gaz. vol. 152; p. 72.
Gate-opener. P. L. Ormiston. No. 979,689; Dec. 27; Sp. p. 4900; Gaz. vol. 161; p. 859.
Gate-opening device. H. Warden. No. 978,245; Dec. 13; Sp. p. 1792; Gaz. vol. 161; p. 314.
Gate-operating device. W. B. Stucker. No. 949,919; Feb. 22; Sp. p. 4513; Gaz. vol. 151; p. 805.
Gate-operating mechanism. H. L. Coats. No. 950,659; Mar. 1; Sp. p. 420; Gaz. vol. 152; p. 68.
Gate-operating mechanism, Tilting-. F. A. Guth. No. 954,280; Apr. 5; Sp. p. 1235; Gaz. vol. 153; p. 206.
Gate-operator. O. O. Bartlow. No. 945,117; Jan. 4; Sp. p. 227; Gaz. vol. 150; p. 39.
Gate-spring. D. L. Clement. No. 948,498; Feb. 8; Sp. p. 1516; Gaz. vol. 151; p. 268.
Gear and brake mechanism, Variable. J. Archer. No. 954,664; Apr. 12; Sp. p. 2088; Gaz. vol. 153; p. 366.
Gear-casing. E. R. Mason. No. 954,038; Apr. 5; Sp. p. 715; Gaz. vol. 153; p. 125.
Gear-casing. R. A. Palmer. No. 954,400; Apr. 5; Sp. p. 1485; Gaz. vol. 153; p. 247.
Gear, Change-speed. H. C. Griffin. No. 958,632; May 17; Sp. p. 4817; Gaz. vol. 154; p. 791.

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Gear, Change-speed. P. L. M. Godeau. No. 971,744; Oct. 4; Sp. p. 494; Gaz. vol. 159; p. 86.
Gear, Change-speed transmission-. J. M. Worth. No. 945,070; Jan. 4; Sp. p. 134; Gaz. vol. 150; p. 23.
Gear, Changeable sprocket-. G. H. Downs. No. 969,148; Aug. 30; Sp. p. 7033; Gaz. vol. 157; p. 1224.
Gear, Combined transmission and differential. C. M. Leech. No. 977,887; Dec. 6; Sp. p. 1015; Gaz. vol. 161; p. 161.
Gear-cutter, Hobbing. P. Catucci. No. 978,113; Dec. 6; Sp. p. 1483; Gaz. vol. 161; p. 240.
Gear-cutting machine. F. J. Spencer and J. Speirs. No. 946,161; Jan. 11; Sp. p. 2529; Gaz. vol. 150; p. 422.
Gear-cutting machine. S. Sunderland. No. 948,830; Feb. 8; Sp. p. 2231; Gaz. vol. 151; p. 378.
Gear-cutting machine. C. C. Roberts. No. 953,059; Mar. 29; Sp. p. 5314; Gaz. vol. 152; p. 979.
Gear-cutting machine. W. F. Zimmermann. No. 973,399; Oct. 18; Sp. p. 4163; Gaz. vol. 159; p. 710.
Gear-cutting machine and cutters. T. Greenwood. No. 966,683; Aug. 9; Sp. p. 1804; Gaz. vol. 157; p. 309.
Gear-fastening device. F. Meyer. No. 955,656; Apr. 19; Sp. p. 4247; Gaz. vol. 153; p. 735.
Gear, Friction draw-. F. M. Snyder. No. 970,131; Sept. 13; Sp. p. 2111; Gaz. vol. 158; p. 359.
Gear, Gapped. W. T. Sears. No. 972,259; Oct. 11; Sp. p. 1634; Gaz. vol. 159; p. 287.
Gear, Gapped. W. T. Sears. No. 972,260; Oct. 11; Sp. p. 1635; Gaz. vol. 159; p. 288.
Gear, Gapped. W. T. Sears. No. 972,261; Oct. 11; Sp. p. 1636; Gaz. vol. 159; p. 288.
Gear, Gapped. W. T. Sears. No. 972,262; Oct. 11; Sp. p. 1637; Gaz. vol. 159; p. 288.
Gear, Gapped. W. T. Sears. No. 972,263; Oct. 11; Sp. p. 1638; Gaz. vol. 159; p. 289.
Gear, Gapped. W. T. Sears. No. 975,722; Nov. 15; Sp. p. 3648; Gaz. vol. 160; p. 615.
Gear, Gapped. W. T. Sears. No. 975,723; Nov. 15; Sp. p. 3650; Gaz. vol. 160; p. 615.
Gear-generating machine. J. E. Gleason. No. 950,766; Mar. 1; Sp. p. 649; Gaz. vol. 152; p. 105.
Gear lock, Differential-. A. M. Wolf. No. 968,224; Aug. 23; Sp. p. 5098; Gaz. vol. 157; p. 878.
Gear mechanism, Friction. H. M. Whitcomb. No. 967,279; Aug. 16; Sp. p. 3095; Gaz. vol. 157; p. 536.
Gear mechanism, Reciprocating. W. L. Hamilton. No. 955,331; Apr. 19; Sp. p. 3535; Gaz. vol. 153; p. 625.
Gear mechanism, Transmission-. R. W. Coffee. No. 970,467; Sept. 20; Sp. p. 2822; Gaz. vol. 158; p. 493.
Gear, Reversing-. D. W. McLaughlin. No. 957,362; May 10; Sp. p. 1869; Gaz. vol. 154; p. 325.
Gear, Reversing-. V. E. Randall. No. 961,316; June 14; Sp. p. 2213; Gaz. vol. 155; p. 392.
Gear, Reversing-. F. J. Bradberry. No. 964,382; July 12; Sp. p. 2920; Gaz. vol. 156; p. 482.
Gear, Reversing-. J. Huther. No. 967,384; Aug. 16; Sp. p. 3310; Gaz. vol. 157; p. 573.
Gear, Reversing-. R. B. Crump. No. 976,727; Nov. 22; Sp. p. 5804; Gaz. vol. 160; p. 983.
Gear, Slip-. J. W. Hughes. No. 950,290; Feb. 22; Sp. p. 5328; Gaz. vol. 151; p. 934.
Gear, Transmission-. M. J. Robinson. No. 953,233; Mar. 29; Sp. p. 5705; Gaz. vol. 152; p. 1036.
Gear, Transmission-. F. B. Allen. No. 972,143; Oct. 11; Sp. p. 1361; Gaz. vol. 159; p. 249.
Gear, Transmission-. F. B. Allen. No. 972,144; Oct. 11; Sp. p. 1364; Gaz. vol. 159; p. 249.
Gear, Transmission-. C. M. Leech. No. 973,793; Oct. 25; Sp. p. 4992; Gaz. vol. 159; p. 868.
Gear, Variable-speed. J. Sturgess. No. 949,782; Feb. 22; Sp. p. 4187; Gaz. vol. 151; p. 756.
Gear, Variable-speed. C. G. Stewart. No. 949,918; Feb. 22; Sp. p. 4512; Gaz. vol. 151; p. 805.
Gear, Variable-speed. J. Archer. No. 954,665; Apr. 12; Sp. p. 2090; Gaz. vol. 153; p. 366.
Gear-wheel. A. Johnston. No. 951,503; Mar. 8; Sp. p. 2122; Gaz. vol. 152; p. 368.
Gear-wheel. R. C. Bloomfield. No. 975,743; Nov. 15; Sp. p. 3698; Gaz. vol. 160; p. 623.
Gear-wheel, Double helical. T. Fawcus. No. 971,980; Oct. 4; Sp. p. 1045; Gaz. vol. 159; p. 174.
Gear-wheel, Split. W. F. Richards. No. 946,735; Jan. 18; Sp. p. 3848; Gaz. vol. 150; p. 642.
Gearing. J. and A. Persoons. No. 946,985; Jan. 18; Sp. p. 4421; Gaz. vol. 150; p. 728.
Gearing. J. S. Barnes. No. 948,583; Feb. 8; Sp. p. 1698; Gaz. vol. 151; p. 295.
Gearing. B. M. W. Hanson. No. 948,697; Feb. 8; Sp. p. 1946; Gaz. vol. 151; p. 334.
Gearing. H. H. Taylor. No. 948,801; Feb. 8; Sp. p. 2174; Gaz. vol. 151; p. 369.
Gearing. J. Neswold. No. 949,943; Feb. 22; Sp. p. 4558; Gaz. vol. 151; p. 814.
Gearing. C. M. Rhodes. No. 950,958; Mar. 1; Sp. p. 1038; Gaz. vol. 152; p. 166.
Gearing. E. Feix. No. 951,945; Mar. 15; Sp. p. 3022; Gaz. vol. 152; p. 547.
Gearing. A. Rodgers and W. C. White. No. 951,995; Mar. 15; Sp. p. 3123; Gaz. vol. 152; p. 563.
Gearing. A. F. Clarke. No. 954,169; Apr. 5; Sp. p. 1005; Gaz. vol. 153; p. 170.
Gearing. G. B. Pilkington. No. 955,198; Apr. 19; Sp. p. 3240; Gaz. vol. 153; p. 580.
Gearing. S. Lippert. No. 955,817; Apr. 19; Sp. p. 4582; Gaz. vol. 153; p. 791.
Gearing. N. P. Fraser. No. 955,858; Apr. 26; Sp. p. 4696; Gaz. vol. 153; p. 834.
Gearing. P. Gaeth. No. 957,763; May 10; Sp. p. 2681; Gaz. vol. 154; p. 461.
Gearing. A. N. Adams. No. 958,061; May 17; Sp. p. 3533; Gaz. vol. 154; p. 595.
Gearing. C. P. Sester and H. Oelkers. No. 959,622; May 31; Sp. p. 6910; Gaz. vol. 154; p. 1176.
Gearing. P. Hadnagy. No. 960,900; June 7; Sp. p. 1327; Gaz. vol. 155; p. 223.
Gearing. C. P. Johnson. No. 960,945; June 7; Sp. p. 1407; Gaz. vol. 155; p. 237.
Gearing. J. R. Trigwell. No. 961,561; June 14; Sp. p. 2738; Gaz. vol. 155; p. 474.
Gearing. V. A. White. No. 961,740; June 14; Sp. p. 3093; Gaz. vol. 155; p. 534.
Gearing. G. Cartwright. No. 964,490; July 19; Sp. p. 3154; Gaz. vol. 156; p. 548.
Gearing. F. A. Ward. No. 965,774; July 26; Sp. p. 6000; Gaz. vol. 156; p. 1019.
Gearing. W. D. Marks. No. 965,846; July 26; Sp. p. 6155; Gaz. vol. 156; p. 1044.
Gearing. A. Carlson. No. 967,324; Aug. 16; Sp. p. 3188; Gaz. vol. 157; p. 552.
Gearing. E. W. Blum. No. 968,025; Aug. 23; Sp. p. 4646; Gaz. vol. 157; p. 811.
Gearing. R. Milne. No. 968,488; Aug. 23; Sp. p. 5625; Gaz. vol. 157; p. 971.
Gearing. H. M. Lofton. No. 968,962; Aug. 30; Sp. p. 6651; Gaz. vol. 157; p. 1158.
Gearing. W. O. Hancock. No. 970,328; Sept. 13; Sp. p. 2528; Gaz vol. 158; p. 427.
Gearing. R. W. Padden. No. 971,633; Oct. 4; Sp. p. 261; Gaz. vol. 159; p. 47.
Gearing. C. A. Munger. No. 974,508; Nov. 1; Sp. p. 992; Gaz. vol. 160; p. 148.
Gearing. T. A. Panyard. No. 975,789; Nov. 15; Sp. p. 3789; Gaz. vol. 160; p. 638.
Gearing. J. H. Malley. No. 977,207; Nov. 29; Sp. p. 6924; Gaz. vol. 160; p. 1176.
Gearing. S. C. Schauer and P. L. Brockardt. No. 978,221; Dec. 13; Sp. p. 1741; Gaz. vol. 161; p. 306.
Gearing. A. J. Wikander. No. 978,252; Dec. 13; Sp. p. 1810; Gaz. vol. 161; p. 317.
Gearing and spacing mechanism, Chain. F. Darcy. No. 978,007; Dec. 6; Sp. p. 1259; Gaz. vol. 161; p. 202.
Gearing, Automobile transmission-. R. E. Wynn. No. 955,244; Apr. 19; Sp. p. 3346; Gaz. vol. 153; p. 597.
Gearing, Automobile transmission-. F. F. Kohler. No. 967,786; Aug. 16; Sp. p. 4134; Gaz. vol. 157; p. 708.
Gearing, Belt-. E. Rawson. No. 965,937; Aug. 2; Sp. p. 185; Gaz. vol. 157; p. 32.
Gearing, Belt-. C. Meier and G. Langen. No. 973,801; Oct. 25; Sp. p. 5009; Gaz. vol. 159; p. 871.
Gearing, Change-speed. J. H. Apjohn. No. 945,836; Jan. 11; Sp. p. 1855; Gaz. vol. 150; p. 309.
Gearing, Change-speed. A. B. Landis. No. 948,892; Feb. 8; Sp. p. 2350; Gaz. vol. 151; p. 399.
Gearing, Change-speed and reversing. J. D. Abbott. No. 972,672; Oct. 11; Sp. p. 2529; Gaz. vol. 159; p. 431
Gearing, Change-speed belt-. P. Heuer. No. 953,144; Mar. 29; Sp. p. 5523; Gaz. vol. 152; p. 1007.
Gearing, Changeable-speed. W. L. Miller. No. 973,287; Oct. 18; Sp. p. 3914; Gaz. vol. 159; p. 670.
Gearing, Controlling mechanism for change-speed and reversing. A. P. Brush. No. 975,393; Nov. 15; Sp. p. 2960; Gaz. vol. 160; p. 502.
Gearing device. W. F. Phillips. No. 950,402; Feb. 22; Sp. p. 5534; Gaz. vol. 151; p. 969.
Gearing, Differential. H. A. H. Salomo. No. 959,394; May 24; Sp. p. 6420; Gaz. vol. 154; p. 1074.
Gearing, Differential. A. F. Peacock. No. 978,057; Dec. 6; Sp. p. 1365; Gaz. vol. 161; p. 219.
Gearing, Differential locking-. E. Luckwill. No. 954,748; Apr. 12; Sp. p. 2285; Gaz. vol. 153; p. 396.
Gearing, Driving-. R. H. Gilbert. No. 973,031; Oct. 18; Sp. p. 3365; Gaz. vol. 159; p. 582.
Gearing, Driving and reversing. O. C. Frick. No. 966,679; Aug. 9; Sp. p. 1796; Gaz. vol. 157; p. 307.
Gearing for metal-working machines. H. M. Lucas and J. B. Green. No. 954,639; Apr. 12; Sp. p. 2027; Gaz. vol. 153; p. 357.
Gearing, Friction-. W. K. Blackburn. No. 969,448; Sept. 6; Sp. p. 623; Gaz. vol. 158; p. 99.
Gearing, Friction-. J. Springer. No. 977,483; Dec. 6; Sp. p. 126; Gaz. vol. 161; p. 21.
Gearing, Friction-. L. N. Lacombe. No. 979,315; Dec. 20; Sp. p. 4115; Gaz. vol. 161; p. 709.
Gearing, Friction transmission-. A. A. De Loach. No. 970,190; Sept. 13; Sp. p. 2231; Gaz. vol. 158; p. 380.
Gearing, Lock for. G. O. Leopold. No. 955,815; Apr. 19; Sp. p. 4576; Gaz. vol. 153; p. 790.
Gearing, Multiple-speed driving-. N. A. Didierjean. No. 954,672; Apr. 12; Sp. p. 2101; Gaz. vol. 153; p. 368.
Gearing, Planet-. P. H. Peters. No. 964,180; July 12; Sp. p. 2517; Gaz. vol. 156; p. 414.

Gearing, Power-. W. H. Hampton. No. 955,458; Apr. 19; Sp. p. 3802; Gaz. vol. 153; p. 668.
Gearing, Power-transmission. W. L. Fodrea. No. 948,694; Feb. 8; Sp. p. 1933; Gaz. vol. 151; p. 332.
Gearing, Power-transmission. J. W. Reno. No. 965,408; July 26; Sp. p. 5192; Gaz. vol. 156; p. 891.
Gearing, Reduction-. G. W. Melville and J. H. Macalpine. No. 946,455; Jan. 11; Sp. p. 3258; Gaz. vol. 150; p. 524.
Gearing, Reduction-. G. W. Melville and J. H. Macalpine. No. 946,456; Jan. 11; Sp. p. 3267; Gaz. vol. 150; p. 525.
Gearing, Reverse-. H. A. Garrison. No. 976,731; Nov. 22; Sp. p. 5812; Gaz. vol. 160; p. 984.
Gearing, Reversible transmission-. M. W. Kouns. No. 953,846; Apr. 5; Sp. p. 328; Gaz. vol. 153; p. 58.
Gearing, Reversing-. F. E. Paine, Jr. No. 953,704; Apr. 5; Sp. p. 45; Gaz. vol. 153; p. 11.
Gearing, Reversing-. W. Struck. No. 955,717; Apr. 19; Sp. p. 4391; Gaz. vol. 153; p. 757.
Gearing, Reversing-. L. Canfield. No. 973,915; Oct. 25; Sp. p. 5252; Gaz. vol. 159; p. 910.
Gearing, Roller-grip for band-. W. Trewhella. No. 952,156; Mar. 15; Sp. p. 3424; Gaz. vol. 152; p. 615.
Gearing, Safety yieldable. E. M. Cobb. No. 970,991; Sept. 20; Sp. p. 3934; Gaz. vol. 158; p. 672.
Gearing, Speed-. J. Morgan. No. 954,987; Apr. 12; Sp. p. 2820; Gaz. vol. 153; p. 478.
Gearing, Speed-changing. A. Astrup. No. 964,141; July 12; Sp. p. 2446; Gaz. vol. 156; p. 402.
Gearing, Speed-changing and transmission. D. P. Collins. No. 978,700; Dec. 13; Sp. p. 2771; Gaz. vol. 161; p. 473.
Gearing, Transmission-. S. S. Scott. No. 950,144; Feb. 22; Sp. p. 5017; Gaz. vol. 151; p. 882.
Gearing, Transmission-. W. M. Parkison. No. 950,823; Mar. 1; Sp. p. 780; Gaz. vol. 152; p. 124.
Gearing, Transmission-. P. E. Clark. No. 951,055; Mar. 1; Sp. p. 1196; Gaz. vol. 152; p. 196.
Gearing, Transmission-. W. Folberth. No. 953,992; Apr. 5; Sp. p. 618; Gaz. vol. 153; p. 110.
Gearing, Transmission-. W. W. Henderson. No. 954,286; Apr. 5; Sp. p. 1254; Gaz. vol. 153; p. 208.
Gearing, Transmission-. A. J. Morse. No. 954,453; Apr. 12; Sp. p. 1600; Gaz. vol. 153; p. 293.
Gearing, Transmission-. W. W. Henderson. No. 956,089; Apr. 26; Sp. p. 5206; Gaz. vol. 153; p. 916.
Gearing, Transmission-. W. M. Parkison. No. 957,795; May 10; Sp. p. 2751; Gaz. vol. 154; p. 471.
Gearing, Transmission-. J. K. Koons. No. 958,256; May 17; Sp. p. 3929; Gaz. vol. 154; p. 661.
Gearing, Transmission-. W. F. Sword. No. 959,900; May 31; Sp. p. 7510; Gaz. vol. 154; p. 1269.
Gearing, Transmission-. C. A. McKiearnan. No. 960,572; June 7; Sp. p. 684; Gaz. vol. 155; p. 112.
Gearing, Transmission-. C. A. Ward. No. 963,839; July 12; Sp. p. 1827; Gaz. vol. 156; p. 300.
Gearing, Transmission-. C. E. Wyman. No. 965,977; Aug. 2; Sp. p. 281; Gaz. vol. 157; p. 46.
Gearing, Transmission-. C. W. Parker. No. 968,189; Aug. 23; Sp. p. 5029; Gaz. vol. 157; p. 867.
Gearing, Transmission-. K. Probst. No. 968,495; Aug. 23; Sp. p. 5651; Gaz. vol. 157; p. 974.
Gearing, Transmission-. D. H. Haywood. No. 970,706; Sept. 20; Sp. p. 3359; Gaz. vol. 158; p. 576.
Gearing, Transmission-. A. E. Osborn. No. 970,744; Sept. 20; Sp. p. 3444; Gaz. vol. 158; p. 589.
Gearing, Transmission-. C. A. Carlson, A. E. Osborn, and J. C. Angelino. No. 970,790; Sept. 20; Sp. p. 3545; Gaz. vol. 158; p. 607.
Gearing, Transmission-. C. A. Carlson. No. 970,792; Sept. 20; Sp. p. 3554; Gaz. vol. 158; p. 608.
Gearing, Transmission-. C. E. Henriod. No. 978,159; Dec. 13; Sp. p. 1607; Gaz. vol. 161; p. 285.
Gearing, Two-speed. F. P. Fentress. No. 958,797; May 24; Sp. p. 5185; Gaz. vol. 154; p. 873.
Gearing, Variable-feed. A. H. C. Meyer. No. 969,895; Sept. 13; Sp. p. 1625; Gaz. vol. 158; p. 280.
Gearing, Variable-speed. F. Welker. No. 955,488; Apr. 19; Sp. p. 3857; Gaz. vol. 153; p. 679.
Gearing, Variable-speed. J. S. Cox. No. 958,694; May 17; Sp. p. 4935; Gaz. vol. 154; p. 810.
Gearing, Variable-speed. E. D. Westrip. No. 965,971; Aug. 2; Sp. p. 258; Gaz. vol. 157; p. 44.
Gearing, Variable-speed. W. Borlase. No. 966,303; Aug. 2; Sp. p. 964; Gaz. vol. 157; p. 154.
Gearing, Variable-speed. R. Lindsay. No. 975,442; Nov. 15; Sp. p. 3043; Gaz. vol. 160; p. 520.
Gearing, Variable-speed. W. S. Harley. No. 978,880; Dec. 20; Sp. p. 3132; Gaz. vol. 161; p. 556.
Gearing, Variable-speed transmission-. A. J. Slonecker. No. 950,010; Feb. 22; Sp. p. 4746; Gaz. vol. 151; p. 838.
Gearing, Variable-speed transmission-. B. Borgman. No. 970,879; Sept. 20; Sp. p. 3723; Gaz. vol. 158; p. 636.
Gearing, Worm-. J. Lecoche. No. 968,574; Aug. 30; Sp. p. 5833; Gaz. vol. 157; p. 1028.
Gearings, Controlling mechanism for change-speed. M. Lamort. No. 970,836; Sept. 20; Sp. p. 3651; Gaz. vol. 158; p. 623.
Gearings, Locking device for differential. W. L. Burnam. No. 964,387; July 12; Sp. p. 2929; Gaz. vol. 156; p. 483.
Gelatin composition. E. F. Felsing. No. 974,131; Nov. 1; Sp. p. 52; Gaz. vol. 160; p. 11.
Gem grinder and polisher. F. F. Van Eps. No. 962,274; June 21; Sp. p. 4276; Gaz. vol. 155; p. 739.
Gem-mounting. J. J. Buser. No. 962,305; June 21; Sp. p. 4338; Gaz. vol. 155; p. 749.
Gem-setting. J. J. Murrin. No. 949,657; Feb. 15; Sp. p. 3907; Gaz. vol. 151; p. 681.
Gem-setting. J. S. Brant. No. 972,807; Oct. 18; Sp. p. 2807; Gaz. vol. 159; p. 502.
Gem-settings, Manufacturing strips of continuously-connected. W. Whytock, Jr. No. 950,524; Mar. 1; Sp. p. 137; Gaz. vol. 152; p. 22.
Generator: *See* Acetylene-generator; Current-generator; Electric generator; Electric-current generator; Frequency-generator; Gas-generator; Gas and steam power-generator; Inductor-generator; Magneto-generator; Magneto-electric generator; Oxygen-generator; Ozone-generator; Power-generator; Pressure-generator; Sea-power generator; Steam-generator; Turbo-unipolar generator; Vapor-generator.
Generator. J. J. Weyer. No. 952,695; Mar. 22; Sp. p. 4557; Gaz. vol. 152; p. 828.
Generator. J. Smith. No. 968,429; Aug. 23; Sp. p. 5512; Gaz. vol. 157; p. 950.
Generator and burner. W. C. Shaffer. No. 973,713; Oct. 25; Sp. p. 4837; Gaz. vol. 159; p. 840.
Generator and superheater. J. G. Massie. No. 978,769; Dec. 13; Sp. p. 2922; Gaz. vol. 161; p. 494.
Generator apparatus. O. M. Leich. No. 964,033; July 12; Sp. p. 2219; Gaz. vol. 156; p. 365.
Gill-box drawing-head. H. L. Offermann. No. 960,107; May 31; Sp. p. 7986; Gaz. vol. 154; p. 1342.
Gin-feed-actuating device. T. N. Camp. No. 969,337; Sept. 6; Sp. p. 390; Gaz. vol. 158; p. 63.
Gin-pole. W. R. Kales. No. 957,216; May 10; Sp. p. 1548; Gaz. vol. 154; p. 274.
Gin-roller. E. L. Peterson. No. 945,411; Jan. 4; Sp. p. 883; Gaz. vol. 150; p. 137.
Gin-saw cleaner. G. P. Roberts. No. 961,162; June 14; Sp. p. 1859; Gaz. vol. 155; p. 337.
Gin-saw cleaner. J. C. Shropshire. No. 964,818; July 19; Sp. p. 3979; Gaz. vol. 156; p. 662.
Girdle, Waist-. H. W. Gilbert. No. 950,907; Mar. 1; Sp. p. 936; Gaz. vol. 152; p. 150.
Glandular compound and producing same. J. Takamine. No. 945,638; Jan. 4; Sp. p. 1354; Gaz. vol. 150; p. 211.
Glass: *See* Boiler water-glass; Gage-glass; Spectacle-glass; Water-glass; Water-gage glass.
Glass and cup washing apparatus. U. G. Worrall. No. 974,944; Nov. 8; Sp. p. 1967; Gaz. vol. 160; p. 324.
Glass and making the same, Art-. W. Johnson. No. 952,527; Mar. 22; Sp. p. 4185; Gaz. vol. 152; p. 769.
Glass-annealing leer. G. C. De Bay. No. 972,167; Oct. 11; Sp. p. 1429; Gaz. vol. 159; p. 256.
Glass, Apparatus for manufacturing wire-. N. Franzen. No. 945,316; Jan. 4; Sp. p. 679; Gaz. vol. 150; p. 105.
Glass, Apparatus for rolling wire-. A. Meyer. No. 952,126; Mar. 15; Sp. p. 3368; Gaz. vol. 152; p. 606.
Glass, Apparatus for the manufacture of window-. R. S. Pease and J. A. Sweet. No. 946,921; Jan. 18; Sp. p. 4309; Gaz. vol. 150; p. 707.
Glass, Apparatus for transporting and manipulating sheets of plate-. L. De Bay. No. 977,279; Nov. 29; Sp. p. 7053; Gaz. vol. 160; p. 1200.
Glass articles and vessels, Producing wire-. J. I. Arbogast. No. 960,146; May 31; Sp. p. 8062; Gaz. vol. 154; p. 1355.
Glass articles, Device for dipping cut-. F. G. Farnham. No. 967,119; Aug. 9; Sp. p. 2781; Gaz. vol. 157; p. 455.
Glass articles, Machine for making hollow. P. T. Sievert. No. 956,505; Apr. 26; Sp. p. 6115; Gaz. vol. 153; p. 1059.
Glass articles, Machine for the automatic manufacture of blown-. C. Barrez. No. 964,198; July 12; Sp. p. 2547; Gaz. vol. 156; p. 420.
Glass articles, Manufacture of. H. G. Slingluff. No. 958,840; May 24; Sp. p. 5278; Gaz. vol. 154; p. 890.
Glass-beveling machine. E. Homan. No. 970,227; Sept. 13; Sp. p. 2332; Gaz. vol. 158; p. 392.
Glass-blowing-apparatus burner. P. Bornkessel. No. 972,153; Oct. 11; Sp. p. 1404; Gaz. vol. 159; p. 252.
Glass-blowing machine. W. D. Fredrick. No. 975,758; Nov. 15; Sp. p. 3725; Gaz. vol. 160; p. 628.
Glass-blowing machine. W. D. Fredrick. No. 975,759; Nov 15; Sp. p. 3731; Gaz. vol. 160; p. 629.
Glass bottles, jars, and the like, Machine for manufacturing. F. W. Knowles and G. W. Inman. No. 957,349; May 10; Sp. p. 1847; Gaz. vol. 154; p. 321.
Glass bottles, Machine for the manufacture of. T. W. Simpson. No. 978,228; Dec. 13; Sp. p. 1752; Gaz. vol. 161; p. 309.
Glass-cleaner. L. G. Hatosy, Jr. No. 975,862; Nov. 15; Sp. p. 3939; Gaz. vol. 160; p. 663.
Glass, Composition of matter to be used in the manufacture of imitation leaded. A. E. Barnasconi. No. 965,860; Aug. 2; Sp. p. 26; Gaz. vol. 157; p. 7.
Glass cutter, Circular-. W. Chase, Jr. No. 959,311; May 24; Sp. p. 6254; Gaz. vol. 154; p. 1046.
Glass cylinders, Apparatus for severing. R. H. Bolin. No. 979,740; Dec. 27; Sp. p. 5021; Gaz. vol. 161; p. 877.
Glass cylinders, Oven-pan for. A. P. Fees. No. 947,426; Jan. 25; Sp. p. 5393; Gaz. vol. 150; p. 904.

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Glass cylinders, Regulation of air-supply in drawing. R. L. Frink. No. 972,614; Oct. 11; Sp. p. 2410; Gaz. vol. 159; p. 412.
Glass, Device for spinning. I. Weiskopf. No. 946,179; Jan. 11; Sp. p. 2578; Gaz. vol. 150; p. 428.
Glass, Drawing. R. L. and F. J. Frink. No. 972,616; Oct. 11; Sp. p. 2417; Gaz. vol. 159; p. 412.
Glass-drawing apparatus. L. Mambourg and U. Houze. No. 965,205; July 26; Sp. p. 4758; Gaz. vol. 156; p. 823.
Glass-drawing apparatus. L. Mambourg and U. Houze. No. 970,633; Sept. 20; Sp. p. 3207; Gaz. vol. 158; p. 552.
Glass-drawing bait. R. L. Frink. No. 972,615; Oct. 11; Sp. p. 2413; Gaz. vol. 159; p. 412.
Glass-drawing bait. R. L. and F. J. Frink. No. 972,687; Oct. 11; Sp. p. 2555; Gaz. vol. 159; p. 435.
Glass-drawing bait. R. L. Frink. No. 973,934; Oct. 25; Sp. p. 5285; Gaz. vol. 159; p. 917.
Glass-drawing furnace. I. J. Ralston and J. Briggs. No. 958,535; May 17; Sp. p. 4630; Gaz. vol. 154; p. 760.
Glass-drawing machine, Continuous window-. W. Martin. No. 969,385; Sept. 6; Sp. p. 502; Gaz. vol. 158; p. 80.
Glass-drawing machine, Sheet-. J. Player. No. 953,973; Apr. 5; Sp. p. 568; Gaz. vol. 153; p. 103.
Glass-drawing machine, Sheet-. I. W. Colburn. No. 973,002; Oct. 18; Sp. p. 3291; Gaz. vol. 159; p. 572.
Glass-drawing machine, Window-. C. M. Resslar. No. 951,222; Mar. 8; Sp. p. 1527; Gaz. vol. 152; p. 275.
Glass-drawing machines, Method and apparatus for tempering the sheet source in sheet-. I. W. Colburn. No. 966,652; Aug. 9; Sp. p. 1743; Gaz. vol. 157; p. 297.
Glass-drawing machines, Method and apparatus for tempering the sheet source in sheet-. I. W. Colburn. No. 966,653; Aug. 9; Sp. p. 1748; Gaz. vol. 157; p. 298.
Glass-drawing process and apparatus. L. A. Thornburg. No. 979,601; Dec. 27; Sp. p. 4724; Gaz. vol. 161; p. 829.
Glass-forming machinery. C. F. W. Suess. No. 954,901; Apr. 12; Sp. p. 2662; Gaz. vol. 153; p. 449.
Glass-furnace. H. Douchamp. No. 979,935; Dec. 27; Sp. p. 5446; Gaz. vol. 161; p. 941.
Glass-furnace and manufacturing glass articles therein. R. S. Pease. No. 967,966; Aug. 23; Sp. p. 4503; Gaz. vol. 157; p. 792.
Glass-furnace, Electric. M. Sauvageon. No. 972,778; Oct. 11; Sp. p. 2743; Gaz. vol. 159; p. 467.
Glass-furnace, Electric. M. Sauvageon. No. 972,779; Oct. 11; Sp. p. 2744; Gaz. vol. 159; p. 467.
Glass-gage cutter, Water-. F. Blodgett. No. 950,273; Feb. 22; Sp. p. 5300; Gaz. vol. 151; p. 928.
Glass-gathering machine. R. D. Brown. No. 960,264; June 7; Sp. p. 48; Gaz. vol. 155; p. 11.
Glass grinding and polishing apparatus. A. W. Hornig. No. 969,871; Sept. 13; Sp. p. 1578; Gaz. vol. 158; p. 271.
Glass-handling apparatus, Molten-. J. A. Chambers. No. 950,092; Feb. 22; Sp. p. 4919; Gaz. vol. 151; p. 866.
Glass-heating apparatus. A. Hanson. No. 959,057; May 24; Sp. p. 5726; Gaz. vol. 154; p. 962.
Glass-heating furnace. T. W. Frech, Jr. No. 952,517; Mar. 22; Sp. p. 4156; Gaz. vol. 152; p. 765.
Glass-holder. E. A. Strause. No. 973,085; Oct. 18; Sp. p. 3465; Gaz. vol. 159; p. 600.
Glass jar. C. G. Overmyer. No. 978,634; Dec. 13; Sp. p. 2653; Gaz. vol. 161; p. 451.
Glass-machine. L. Steelman. No. 979,045; Dec. 20; Sp. p. 3513; Gaz. vol. 161; p. 615.
Glass machine, Continuous-drawn sheet-. L. A. Thornburg. No. 956,449; Apr. 26; Sp. p. 5986; Gaz. vol. 153; p. 1039.
Glass, Machine for making wire-. N. Franzen. No. 945,317; Jan. 4; Sp. p. 681; Gaz. vol. 150; p. 106.
Glass, Machine for manufacture of wire-. A. Shuman. No. 945,054; Jan. 4; Sp. p. 97; Gaz. vol. 150; p. 17.
Glass-making apparatus, Polished-. G. C. De Bay. No. 972,166; Oct. 11; Sp. p. 1425; Gaz. vol. 159; p. 255.
Glass-making apparatus, Sheet-. F. M. Francart, G. C. Debay, J. W. Johnston, and G. B. Couch. No. 976,125; Nov. 15; Sp. p. 4453; Gaz. vol. 160; p. 754.
Glass-making apparatus, Wire-. W. S. Temple. No. 959,434; May 24; Sp. p. 6481; Gaz. vol. 154; p. 1086.
Glass, Making imitation art-. A. Fandrey. No. 951,879; Mar. 15; Sp. p. 2897; Gaz. vol. 152; p. 524.
Glass-making machine. P. Henry. No. 955,066; Apr. 12; Sp. p. 2969; Gaz. vol. 153; p. 503.
Glass-making machine, Wire-. A. J. Baldwin. No. 957,594; May 10; Sp. p. 2320; Gaz. vol. 154; p. 403.
Glass-making machinery, Die-holder for. T. J. Holden. No. 969,280; Sept. 6; Sp. p. 272; Gaz. vol. 158; p. 44.
Glass, Making polished. G. C. De Bay. No. 972,165; Oct. 11; Sp. p. 1422; Gaz. vol. 159; p. 255.
Glass, Making polished. G. C. De Bay. No. 972,168; Oct. 11; Sp. p. 1431; Gaz. vol. 159; p. 256.
Glass, Making sheets or plates of opalite or opalescent. G. H. Harvey. No. 949,183; Feb. 15; Sp. p. 2950; Gaz. vol. 151; p. 522.
Glass, Manufacture of drawn. J. R. Speer and G. H. Harvey. No. 977,685; Dec. 6; Sp. p. 599; Gaz. vol. 161; p. 91.
Glass, Manufacture of plate-. F. L. O. Wadsworth. No. 952,390; Mar. 15; Sp. p. 3878; Gaz. vol. 152; p. 694.
Glass, Manufacturing wire-. W. Buttler. No. 980,063; Dec. 27; Sp. p. 5719; Gaz. vol. 161; p. 984.
Glass, Means for drawing sheet-. I. W. Colburn. No. 970,182; Sept. 13; Sp. p. 2215; Gaz. vol. 158; p. 377.
Glass, Method of and apparatus for drawing. T. Spillane. No. 962,925; June 28; Sp. p. 5640; Gaz. vol. 155; p. 987.
Glass, Method of and apparatus for drawing. R. L. Frink. No. 963,888; July 12; Sp. p. 1927; Gaz. vol. 156; p. 317.
Glass, Method of and apparatus for drawing. R. L. Frink. No. 972,613; Oct. 11; Sp. p. 2406; Gaz. vol. 159; p. 411.
Glass, Method of and apparatus for making wire-. P. J., Sr., P. J. Jr., and F. Guyaux. No. 954,956; Apr. 12; Sp. p. 2760; Gaz. vol. 153; p. 467.
Glass, Method of and apparatus for manufacturing wire-. N. Franzen. No. 945,315; Jan. 4; Sp. p. 677; Gaz. vol. 150; p. 105.
Glass, Method of and apparatus for the production of sheet-. J. Player. No. 952,354; Mar. 15; Sp. p. 3814; Gaz. vol. 152; p. 682.
Glass, Method of and machine for making wire-. N. Franzen. No. 945,314; Jan. 4; Sp. p. 674; Gaz. vol. 150; p. 105.
Glass, Method of and machine for making wire-. N. Franzen. No. 945,318; Jan. 4; Sp. p. 683; Gaz. vol. 150; p. 106.
Glass, Method of and machine for making wire-. A. J. Baldwin. No. 959,102; May 24; Sp. p. 5835; Gaz. vol. 154; p. 978.
Glass, Method of and machine for making wire-. J. W. Hoyer. No. 959,537; May 31; Sp. p. 6738; Gaz. vol. 154; p. 1147.
Glass, Method of and machine for making wire-. N. Franzen. No. 966,819; Aug. 9; Sp. p. 2148; Gaz. vol. 157; p. 354.
Glass, Method of and means for annealing. F. Shuman. No. 957,477; May 10; Sp. p. 2096; Gaz. vol. 154; p. 363.
Glass, Mode and means for manufacture of sheet-. F. M. Oppermann. No. 954,457; Apr. 12; Sp. p. 1616; Gaz. vol. 153; p. 295.
Glass-molding machine. A. Strub. No. 947,204; Jan. 18; Sp. p. 4837; Gaz. vol. 150; p. 798.
Glass-molding machine. F. W. Pawling. No. 949,380; Feb. 15; Sp. p. 3376; Gaz. vol. 151; p. 589.
Glass-molding machine. W. J. Miller. No. 950,941; Mar. 1; Sp. p. 1003; Gaz. vol. 152; p. 160.
Glass panes in position, Means for securing. J. Knoerl. No. 974,575; Nov. 1; Sp. p. 1151; Gaz. vol. 160; p. 174.
Glass-plate connector. A. Voigt. No. 945,351; Jan. 4; Sp. p. 755; Gaz. vol. 150; p. 116.
Glass plates, Apparatus for silvering. M. Glaser and B. Wainblatt. No. 952,191; Mar. 15; Sp. p. 3479; Gaz. vol. 152; p. 626.
Glass plates, Device for fastening together. C. M. Conley. No. 946,959; Jan. 18; Sp. p. 4374; Gaz. vol. 150; p. 719.
Glass plates, Making figured and variegated. A. C. Pilkington. No. 950,864; Mar. 1; Sp. p. 854; Gaz. vol. 152; p. 137.
Glass-pot. H. F. Clark. No. 963,276; July 5; Sp. p. 638; Gaz. vol. 156; p. 89.
Glass-press. W. S. Graham. No. 966,440; Aug. 9; Sp. p. 1245; Gaz. vol. 157; p. 225.
Glass-rolling apparatus. A. Meyer. No. 968,178; Aug. 23; Sp. p. 5006; Gaz. vol. 157; p. 863.
Glass roofs, Sash-bar for. A. Windeknecht. No. 947,009; Jan. 18; Sp. p. 4481; Gaz. vol. 150; p. 737.
Glass sheets, Device for handling. C. H. Farley. No. 980,084; Dec. 27; Sp. p. 5769; Gaz. vol. 161; p. 990.
Glass shield, Water-. H. Montgomery and F. G. Drolet. No. 949,800; Feb. 22; Sp. p. 4222; Gaz. vol. 151; p. 762.
Glass-taking apparatus. W. D. Keefer. No. 966,753; Aug. 9; Sp. p. 2003; Gaz. vol. 157; p. 333.
Glass-tank. R. S. Pease and J. A. Sweet. No. 967,967; Aug. 23; Sp. p. 4505; Gaz. vol. 157; p. 792.
Glass-teeming apparatus. J. W. Cruikshank. No. 956,297; Apr. 26; Sp. p. 5670; Gaz. vol. 153; p. 987.
Glass tile. W. P. Meeker. No. 972,461; Oct. 11; Sp. p. 2040; Gaz. vol. 159; p. 357.
Glass tiles and similar articles, Manufacture of. G. W. Blair. No. 959,423; May 24; Sp. p. 6464; Gaz. vol. 154; p. 1083.
Glass tiles, Apparatus for forming. W. T. Nicholls. No. 952,272; Mar. 15; Sp. p. 3646; Gaz. vol. 152; p. 655.
Glass tiling, Apparatus for making. L. R. Blackmore. No. 972,433; Oct. 11; Sp. p. 1982; Gaz. vol. 159; p. 348.
Glass-tube-grinding machine. J. J. Chaloux. No. 970,987; Sept. 20; Sp. p. 3027; Gaz. vol. 158; p. 671.
Glass-working machine. A. L. Bingham. No. 971,587; Oct. 4; Sp. p. 163; Gaz. vol. 159; p. 30.
Glasses, Shooting-. C. E. Cook. No. 946,596; Jan. 18; Sp. p. 3540; Gaz. vol. 150; p. 596.
Glasses, Trial-frame for bifocal. F. G. Blanchard. No. 949,109; Feb. 15; Sp. p. 2801; Gaz. vol. 151; p. 496.
Glassware. O. A. Mygatt. No. 967,029; Aug. 9; Sp. p. 2586; Gaz. vol. 157; p. 425.
Glassware. O. A. Mygatt. No. 976,681; Nov. 22; Sp. p. 5717; Gaz. vol. 160; p. 968.
Glassware, Fire-polishing. A. J. Sanford. No. 960,587; June 7; Sp. p. 711; Gaz. vol. 155; p. 117.
Glassware fire-polishing apparatus. A. J. Sanford. No. 962,863; June 28; Sp. p. 5528; Gaz. vol. 155; p. 967.
Glassware fire-polishing burner. A. J. Sanford. No. 962,861; June 28; Sp. p. 5525; Gaz. vol. 155; p. 967.

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Glassware fire-polishing burner. A. J. Sanford. No. 962,862; June 28; Sp. p. 5527; Gaz. vol. 155; p. 967.
Glassware, Manufacture of. H. C. Fry. No. 959,500; May 31; Sp. p. 6663; Gaz. vol. 154; p. 1135.
Glassware, Manufacturing. M. W. Kaye. No. 952,908; Mar. 22; Sp. p. 5005; Gaz. vol. 152; p. 899.
Glassware-mold. G. W. Fry. No. 975,409; Nov. 15; Sp. p. 2984; Gaz. vol. 160; p. 507.
Glassware, Process and apparatus for making. S. Forgó. No. 958,613; May 17; Sp. p. 4782; Gaz. vol. 154; p. 785.
Glazier's putty-plane. W. G. Coffin. No. 946,723; Jan. 18; Sp. p. 3817; Gaz. vol. 150; p. 637.
Glazing-bar. C. A. McGinnis. No. 961,728; June 14; Sp. p. 3054; Gaz. vol. 155; p. 529.
Glazing-strip. T. E. Weaver. No. 947,139; Jan. 18; Sp. p. 4699; Gaz. vol. 150; p. 776.
Gliding surface for operating in air or water. H. Reissner. No. 958,009; May 17; Sp. p. 3306; Gaz. vol. 154; p. 576.
Globe attachment, Educational-. A. C. Fries. No. 978,997; Dec. 20; Sp. p. 3405; Gaz. vol. 161; p. 599.
Globe, Collapsible geographical. H. H. Van Keuren. No. 952,119; Mar. 15; Sp. p. 3353; Gaz. vol. 152; p. 603.
Globe for protecting mantles. A. P. Nelson. No. 957,790; May 10; Sp. p. 2743; Gaz. vol. 154; p. 470.
Globe-holder. C. S. Smith and H. H. Palmer. No. 977,563; Dec. 6; Sp. p. 343; Gaz. vol. 161; p. 50.
Globe-holder. J. E. Martin. No. 977,892; Dec. 6; Sp. p. 1026; Gaz. vol. 161; p. 163.
Globe or shade holder. A. Kratzl. No. 965,638; July 26; Sp. p. 5722; Gaz. vol. 156; p. 973.
Globe-protector. A. V. Brown. No. 966,162; Aug. 2; Sp. p. 693; Gaz. vol. 157; p. 109.
Globe, shade, and chimney holder. W. W. Abbott. No. 972,089; Oct. 4; Sp. p. 1249; Gaz. vol. 159; p. 212.
Globes or shades in the galleries of electric-light, gas, and other fittings, Means for holding. S. Falk. No. 958,381; May 17; Sp. p. 4331; Gaz. vol. 154; p. 707.
Glove. T. Ornas. No. 956,156; Apr. 26; Sp. p. 5350; Gaz. vol. 153; p. 939.
Glove. C. E. and R. G. Chaddock. No. 964,608; July 19; Sp. p. 3452; Gaz. vol. 156; p. 590.
Glove. I. A. Schulherr and B. I. Vincent. No. 970,958; Sept. 20; Sp. p. 3873; Gaz. vol. 158; p. 661.
Glove. S. Sachs. No. 975,289; Nov. 8; Sp. p. 2727; Gaz. vol. 160; p. 442.
Glove. F. J. Stein and T. Knapik. No. 978,232; Dec. 13; Sp. p. 1770; Gaz. vol. 161; p. 311.
Glove. J. W. Fennel. No. 979,065; Dec. 20; Sp. p. 3552; Gaz. vol. 161; p. 621.
Glove, Base-ball. C. M. King. No. 962,438; June 28; Sp. p. 4636; Gaz. vol. 155; p. 819.
Glove, Boxing-. S. Cline. No. 955,136; Apr. 19; Sp. p. 3111; Gaz. vol. 153; p. 558.
Glove, Bricklayer's. B. L. Sprague. No. 945,818; Jan. 11; Sp. p. 1803; Gaz. vol. 150; p. 302.
Glove-cleaning machine, Kid-. H. F. Marshall. No. 947,924; Feb. 1; Sp. p. 300; Gaz. vol. 151; p. 50.
Glove-fastener. W. H. Harris. No. 959,737; May 31; Sp. p. 7151; Gaz. vol. 154; p. 1214.
Glove-fasteners, Machine for attaching. J. H. Goss and G. R. Leggett. No. 956,847; May 3; Sp. p. 756; Gaz. vol. 154; p. 119.
Glove-fasteners, Machine for attaching. J. H. Goss and G. R. Leggett. No. 956,848; May 3; Sp. p. 759; Gaz. vol. 154; p. 120.
Glove, Fruit-picking. D. W. Richardson. No. 969,119; Aug. 30; Sp. p. 6972; Gaz. vol. 157; p. 1213.
Glove or mitt, Base-ball-player's. E. L. Rogers. No. 970,754; Sept. 20; Sp. p. 3468; Gaz. vol. 158; p. 594.
Glove-reversing device. A. F. Imbrie. No. 960,937; June 7; Sp. p. 1389; Gaz. vol. 155; p. 234.
Glove, Slapping-. H. H. Pease. No. 972,224; Oct. 11; Sp. p. 1572; Gaz. vol. 159; p. 276.
Glove, Swimming-. C. P. Pearson. No. 958,527; May 17; Sp. p. 4615; Gaz. vol. 154; p. 757.
Gloves and the like, Fastener for. J. H. Fisher. No. 947,808; Feb. 1; Sp. p. 55; Gaz. vol. 151; p. 12.
Gloves, mittens, and the like, Machine for turning. J. E. Crosby. No. 978,434; Dec. 13; Sp. p. 2194; Gaz. vol. 161; p. 380.
Gloves, Shield for. C. Harris. No. 967,376; Aug. 16; Sp. p. 3293; Gaz. vol. 157; p. 570.
Glucosid and making same, New. S. Posternak. No. 959,027; May 24; Sp. p. 5666; Gaz. vol. 154; p. 953.
Glue, Apparatus for the preparation of colorless. J. Lehmann. No. 964,980; July 19; Sp. p. 4301; Gaz. vol. 156; p. 718.
Glue-applying machine. A. Cohn and L. M. Kronheimer. No. 963,033; July 5; Sp. p. 10; Gaz. vol. 156; p. 4.
Glue-converter. C. M. Zimmerman. No. 961,569; June 14; Sp. p. 2751; Gaz. vol. 155; p. 476.
Glue, Converting. C. M. Zimmerman. No. 961,058; June 7; Sp. p. 1646; Gaz. vol. 155; p. 275.
Glue from leather, Forming. H. G. Halloran. No. 967,762; Aug. 16; Sp. p. 4088; Gaz. vol. 157; p. 700.
Glue-heater alarm. C. H. Niemann. No. 958,424; May 17; Sp. p. 4410; Gaz. vol. 154; p. 722.
Glue-melting apparatus. C. M. Zimmerman. No. 961,570; June 14; Sp. p. 2753; Gaz. vol. 155; p. 477.
Gluing apparatus. P. H. Rue. No. 963,070; July 5; Sp. p. 85; Gaz. vol. 156; p. 16.
Gluing dowel-doors, Machine for. C. G. Dauber. No. 964,401; July 12; Sp. p. 2953; Gaz. vol. 156; p. 488.
Gluing-machine. J. F. Zapf. No. 959,986; May 31; Sp. p. 7719; Gaz. vol. 154; p. 1301.
Gluing-machine. J. Buffelen. No. 962,619; June 28; Sp. p. 5038; Gaz. vol. 155; p. 881.
Glycerin, Treating. S. H. Fleming. No. 969,159; Sept. 6; Sp. p. 15; Gaz. vol. 158; p. 6.
Glycerin, Treating. S. H. Fleming. No. 978,443; Dec. 13; Sp. p. 2215; Gaz. vol. 161; p. 384.
Go-cart. R. C. Robinson. No. 961,163; June 14; Sp. p. 1861; Gaz. vol. 155; p. 337.
Go-cart, Collapsible. M. B. Lloyd. No. 968,170; Aug. 23; Sp. p. 4992; Gaz. vol. 157; p. 861.
Go-cart, Convertible. R. S. Stone. No. 952,648; Mar. 22; Sp. p. 4458; Gaz. vol. 152; p. 812.
Go-cart, Folding. E. and F. F. Timmerhoff. No. 947,868; Feb. 1; Sp. p. 186; Gaz. vol. 151; p. 32.
Go-cart, Folding. M. Folgeman and A. Kraus. No. 955,783; Apr. 19; Sp. p. 4508; Gaz. vol. 153; p. 779.
Go-carts, Canopy for folding. W. W. Williams. No. 974,942; Nov. 8; Sp. p. 1962; Gaz. vol. 160; p. 323.
Goggles, Motorist's. R. Esnault-Pelterie. No. 968,401; Aug. 23; Sp. p. 5460; Gaz. vol. 157; p. 941.
Gold and silver from ore-slimes, Extracting. A. F. Crosse. No. 951,940; Mar. 15; Sp. p. 3015; Gaz. vol. 152; p. 546.
Gold, Apparatus for recovering fine. J. H. Alling. No. 947,958; Feb. 1; Sp. p. 375; Gaz. vol. 151; p. 61.
Gold from river-beds, Means for extracting. J. H. Batten. No. 962,612; June 28; Sp. p. 5026; Gaz. vol. 155; p. 879.
Gold, Recovering fine. J. H. Alling. No. 947,957; Feb. 1; Sp. p. 373; Gaz. vol. 151; p. 60.
Gold, Refining. H. Wohlwill. No. 961,924; June 21; Sp. p. 3502; Gaz. vol. 155; p. 619.
Gold-saving apparatus. W. H. Hackney. No. 962,636; June 28; Sp. p. 5072; Gaz. vol. 155; p. 886.
Gold-saving riffle. C. Erickson. No. 967,745; Aug. 16; Sp. p. 4062; Gaz. vol. 157; p. 695.
Gold-washer, Dry. G. W. Palmer. No. 954,580; Apr. 12; Sp. p. 1883; Gaz. vol. 153; p. 336.
Gold washing and separating machine. E. Randolph. No. 968,883; Aug. 30; Sp. p. 6500; Gaz. vol. 157; p. 1132.
Golf-bag. G. A. O'Neil. No. 951,448; Mar. 8; Sp. p. 2003; Gaz. vol. 152; p. 348.
Golf-ball. M. M. Dessau. No. 951,756; Mar. 8; Sp. p. 2624; Gaz. vol. 152; p. 453.
Golf-ball. G. C. Worthington. No. 972,313; Oct. 11; Sp. p. 1740; Gaz. vol. 159; p. 306.
Golf-ball marker. J. J. Blumberg. No. 952,501; Mar. 22; Sp. p. 4125; Gaz. vol. 152; p. 759.
Golf-ball trap for golf putting practice. C. W. Johnson. No. 954,299; Apr. 5; Sp. p. 1287; Gaz. vol. 153; p. 213.
Golf-club. W. D. Kilgour. No. 947,822; Feb. 1; Sp. p. 72; Gaz. vol. 151; p. 16.
Golf-club. D. Myles. No. 956,594; May 3; Sp. p. 188; Gaz. vol. 154; p. 32.
Golf-club. A. C. Fowler. No. 959,053; May 24; Sp. p. 5720; Gaz. vol. 154; p. 961.
Golf-club. C. Jacobus. No. 974,888; Nov. 8; Sp. p. 1828; Gaz. vol. 160; p. 304.
Golf-club. M. W. Hollingsworth. No. 976,176; Nov. 22; Sp. p. 4610; Gaz. vol. 160; p. 793.
Golf-club. A. F. Knight. No. 976,267; Nov. 22; Sp. p. 4846; Gaz. vol. 160; p. 827.
Golf-links, Cup or hole-rim for. H. Hinckley. No. 947,819; Feb. 1; Sp. p. 69; Gaz. vol. 151; p. 15.
Golf, Portable apparatus for use in playing clock-. J. H. Matthews. No. 951,649; Mar. 8; Sp. p. 2403; Gaz. vol. 152; p. 416.
Gopher-exterminator. E. C. Duckett and F. B. Lloyd. No. 957,458; May 10; Sp. p. 2062; Gaz. vol. 154; p. 357.
Gopher-trap. A. F. Renken. No. 954,996; Apr. 12; Sp. p. 2833; Gaz. vol. 153; p. 481.
Gouge. J. A. Suckley. No. 976,106; Nov. 15; Sp. p. 4416; Gaz. vol. 160; p. 748.
Gouging-tool. J. Q. Adams, Sr. No. 979,911; Dec. 27; Sp. p. 5404; Gaz. vol. 161; p. 934.
Governing and regulating steam-engines, Device for. H. C. Holm. No. 965,904; Aug. 2; Sp. p. 123; Gaz. vol. 157; p. 21.
Governing apparatus. H. L. Barton. No. 976,839; Nov. 29; Sp. p. 6068; Gaz. vol. 160; p. 1046.
Governing means for internal-combustion engines. C. A. Carlson. No. 970,794; Sept. 20; Sp. p. 3558; Gaz. vol. 158; p. 609.
Governing mechanism. R. B. Owens. No. 953,285; Mar. 29; Sp. p. 5818; Gaz. vol. 152; p. 1052.
Governing mechanism. M. M. Pearson. No. 954,646; Apr. 12; Sp. p. 2039; Gaz. vol. 153; p. 359.
Governing mechanism for explosive-engines. G. H. Hayes. No. 960,173; May 31; Sp. p. 8105; Gaz. vol. 154; p. 1363.
Governing mechanism for explosive-engines. P. Paulson. No. 961,156; June 14; Sp. p. 1845; Gaz. vol. 155; p. 335.
Governing mechanism for fluid-pressure engines. H. H. Dow. No. 976,853; Nov. 29; Sp. p. 6108; Gaz. vol. 160; p. 1051.
Governor. J. Downey and J. F. Hamilton. No. 947,150; Jan. 18; Sp. p. 4721; Gaz. vol. 150; p. 779.

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Governor. J. P. Nikonow. No. 948,791; Feb. 8; Sp. p. 2150; Gaz. vol. 151; p. 366.
Governor. G. B. Nelson. No. 958,159; May 17; Sp. p. 3730; Gaz. vol. 154; p. 630.
Governor. N. Lombard. No. 960,358; June 7; Sp. p. 244; Gaz. vol. 155; p. 42.
Governor. F. L. Nichols. No. 962,163; June 21; Sp. p. 4044; Gaz. vol. 155; p. 702.
Governor. H. N. Motsinger. No. 963,309; July 5; Sp. p. 695; Gaz. vol. 156; p. 99.
Governor. W. J. Richards. No. 969,193; Sept. 6; Sp. p. 107; Gaz. vol. 158; p. 17.
Governor. P. J. Holm. No. 973,505; Oct. 25; Sp. p. 4393; Gaz. vol. 159; p. 768.
Governor attachment, Engine-. W. H. Giltner. No. 974,655; Nov. 1; Sp. p. 1315; Gaz. vol. 160; p. 203.
Governor, Automatic cut-off. O. Onsrud. No. 967,963; Aug. 23; Sp. p. 4494; Gaz. vol. 157; p. 790.
Governor, Automatic stop-. J. Breslove. No. 953,590; Mar. 29; Sp. p. 6482; Gaz. vol. 152; p. 1159.
Governor, Centrifugal. F. W. Bentley. No. 957,861; May 17; Sp. p. 2885; Gaz. vol. 154; p. 523.
Governor, Centrifugal. O. Junggren and F. W. Bentley. No. 957,886; May 17; Sp. p. 2939; Gaz. vol. 154; p. 532.
Governor, Emergency-. F. Samuelson. No. 960,411; June 7; Sp. p. 354; Gaz. vol. 155; p. 59.
Governor, Engine-. D. W. Payne. (Reissue.) No. 13,075; Jan. 11; Sp. p. 3427; Gaz. vol. 150; p. 549.
Governor, Engine-. L. E. Hunt. No. 955,073; Apr. 12; Sp. p. 2980; Gaz. vol. 153; p. 506.
Governor, Engine-. C. Grant. No. 959,853; May 31; Sp. p. 7403; Gaz. vol. 154; p. 1254.
Governor, Engine-. C. B. Edwards. No. 971,431; Sept. 27; Sp. p. 4828; Gaz. vol. 158; p. 845.
Governor for explosive-engines, Automatic fuel-cut-off. J. I. Wood. No. 954,155; Apr. 5; Sp. p. 979; Gaz. vol. 153; p. 165.
Governor for explosive-engines, Reversing-. J. P. Swift. No. 949,859; Feb. 22; Sp. p. 4376; Gaz. vol. 151; p. 784.
Governor for internal-combustion engines. D. Roberts, A. R. Bellamy, and C. James. No. 979,888; Dec. 27; Sp. p. 5352; Gaz. vol. 161; p. 925.
Governor for steam or elastic-fluid engines. C. W. Dake. No. 959,471; May 31; Sp. p. 6593; Gaz. vol. 154; p. 1125.
Governor mechanism for internal-combustion engines. F. T. Flinchbaugh. No. 966,896; Aug. 9; Sp. p. 2305; Gaz. vol. 157; p. 378.
Governor or regulator. F. J. Pearson. No. 947,686; Jan. 25; Sp. p. 5957; Gaz. vol. 150; p. 991.
Governor, Speed-. H. G. Sahlin. No. 967,443; Aug. 16; Sp. p. 3435; Gaz. vol. 157; p. 592.
Governors, Self-locking automatic stop for. S. S. Hall. No. 979,289; Dec. 20; Sp. p. 4074; Gaz. vol. 161; p. 700.
Governors, Speed-ranger for. J. W. Kleinhan. No. 961,865; June 21; Sp. p. 3392; Gaz. vol. 155; p. 600.
Governors, Standardizing device for. G. J. Henry Jr. No. 976,174; Nov. 22; Sp. p. 4604; Gaz. vol. 160; p. 792.
Grab-hook. C. W. Ebert. No. 960,522; June 7; Sp. p. 568; Gaz. vol. 155; p. 94.
Grab hook, Log-. H. Johns. No. 965,821; July 26; Sp. p. 6103; Gaz. vol. 156; p. 1035.
Grab-hook, Trip. M. V. Spencer. No. 958,978; May 24; Sp. p. 5576; Gaz. vol. 154; p. 937.
Grader. J. W. Beasley. No. 950,272; Feb. 22; Sp. p. 5296; Gaz. vol. 151; p. 928.
Grader. L. N. Morscher. No. 956,817; May 3; Sp. p. 690; Gaz. vol. 154; p. 109.
Grader. L. N. Morscher. No. 965,140; July 19; Sp. p. 4619; Gaz. vol. 156; p. 770.
Grader. L. N. Morscher. No. 967,411; Aug. 16; Sp. p. 3383; Gaz. vol. 157; p. 583.
Grader. J. W. Beasley. No. 968,915; Aug. 30; Sp. p. 6566; Gaz. vol. 157; p. 1143.
Grader. L. N. Morscher. No. 969,971; Sept. 13; Sp. p. 1794; Gaz. vol. 158; p. 305.
Grader and ditcher, Road-. J. P. Evans and J. B. West. No. 960,296; June 7; Sp. p. 111; Gaz. vol. 155; p. 22.
Grader and drag, Road. T. I. Swagerty and A. L. Lowe. No. 979,047; Dec. 20; Sp. p. 3522; Gaz. vol. 161; p. 616.
Grader and leveler, Road. J. S. Haynes. No. 965,628; July 26; Sp. p. 5707; Gaz. vol. 156; p. 970.
Grader and scraper, Road. F. L. Reising. No. 958,891; May 24; Sp. p. 5413; Gaz. vol. 154; p. 907.
Grader and smoother, Road. H. C. Barnett. No. 962,299; June 21; Sp. p. 4327; Gaz. vol. 155; p. 747.
Grader, Road-. W. S. Livengood. No. 945,179; Jan. 4; Sp. p. 353; Gaz. vol. 150; p. 59.
Grader, Road-. F. A. Mattson. No. 946,063; Jan. 11; Sp. p. 2327; Gaz. vol. 150; p. 387.
Grader, Road-. J. P. Lutes. No. 949,588; Feb. 15; Sp. p. 3782; Gaz. vol. 151; p. 658.
Grader, Road-. W. H. Beam. No. 953,406; Mar. 29; Sp. p. 6092; Gaz. vol. 152; p. 1094.
Grader, Road-. A. Ganser. No. 954,386; Apr. 5; Sp. p. 1462; Gaz. vol. 153; p. 243.
Grader, Road-. H. Sunderman. No. 956,744; May 3; Sp. p. 519; Gaz. vol. 154; p. 84.
Grader, Road-. T. E. Lyon. No. 957,357; May 10; Sp. p. 1860; Gaz. vol. 154; p. 324.
Grader, Road-. S. A. Stone. No. 962,267; June 21; Sp. p. 4256; Gaz. vol. 155; p. 736.
Grader, Road-. O. A. Ness. No. 967,656; Aug. 16; Sp. p. 3866; Gaz. vol. 157; p. 664.
Grader, Road-. V. Landholm. No. 974,397; Nov. 1; Sp. p. 712; Gaz. vol. 160; p. 108.
Grader, Road-. N. K. Skow. No. 978,498; Dec. 13; Sp. p. 2335; Gaz. vol. 161; p. 403.
Graders, Dust-scraper for elevating-. C. L. Sprague and C. A. Wilson. No. 950,874; Mar. 1; Sp. p. 870; Gaz. vol. 152; p. 140.
Graders, Throwing-wheel for. W. H. Ehrsam, E. H. Sieder, and L. N. Morscher. No. 976,350; Nov. 22; Sp. p. 5026; Gaz. vol. 160; p. 853.
Grading and ditching machine. W. Hay. No. 948,816; Feb. 8; Sp. p. 2203; Gaz. vol. 151; p. 374.
Grading and ditching machine. T. F. Stroud. No. 975,176; Nov. 8; Sp. p. 2494; Gaz. vol. 160; p. 403.
Grading, digging, and leveling machine, Combined. D. E. Graves. No. 962,756; June 28; Sp. p. 5321; Gaz. vol. 155; p. 930.
Grading-machine. S. C. Hanna. No. 972,763; Oct. 11; Sp. p. 2717; Gaz. vol. 159; p. 462.
Grading-machine. L. J. Sevison and E. H. Moak. No. 973,711; Oct. 25; Sp. p. 4827; Gaz. vol. 159; p. 840.
Grading machine, Road-. B. Whittemore. No. 952,395; Mar. 15; Sp. p. 3888; Gaz. vol. 152; p. 696.
Grading machine, Road-. B. F. Elliott and J. L. Summers. No. 953,085; Mar. 29; Sp. p. 5387; Gaz. vol. 152; p. 988.
Grading machine, Road-. C. W. Horton. No. 955,071; Apr. 12; Sp. p. 2976; Gaz. vol. 153; p. 505.
Grading machine, Road-. P. J. Jewett. (Reissue.) No. 13,101; Apr. 12; Sp. p. 3072; Gaz. vol. 153; p. 521.
Grading machine, Road-. P. J. Jewett. No. 962,354; June 21; Sp. p. 4438; Gaz. vol. 155; p. 765.
Grading machine, Road-. C. O. Wold. No. 968,439; Aug. 23; Sp. p. 5530; Gaz. vol. 157; p. 954.
Gradometer. E. A. Hammett and E. H. Clark. No. 956,962; May 3; Sp. p. 1015; Gaz. vol. 154; p. 159.
Gradual-reduction mill. W. M. Page. No. 977,542; Dec. 6; Sp. p. 291; Gaz. vol. 161; p. 43.
Graduated release-brake. W. V. Turner. No. 965,616; July 26; Sp. p. 5679; Gaz. vol. 156; p. 965.
Grafting. R. C. Huey. No. 971,536; Oct. 4; Sp. p. 52; Gaz. vol. 159; p. 12.
Grain-bearing straw, Feeder for. S. B. McComb. No. 962,238; June 21; Sp. p. 4179; Gaz. vol. 155; p. 726.
Grain-bin, Portable. E. E. Norquist. No. 952,133; Mar. 15; Sp. p. 3382; Gaz. vol. 152; p. 608.
Grain-binder knotter. W. Utt, Jr. No. 970,359; Sept. 13; Sp. p. 2587; Gaz. vol. 158; p. 437.
Grain-binder twine-feeding device. J. Praska. No. 950,955; Mar. 1; Sp. p. 1033; Gaz. vol. 152; p. 165.
Grain-binders, Compressor and trip mechanism for. J. Boda. No. 974,348; Nov. 1; Sp. p. 614; Gaz. vol. 160; p. 92.
Grain-bucket. J. P. Zoller. No. 948,365; Feb. 8; Sp. p. 1220; Gaz. vol. 151; p. 223.
Grain, Cleaning. N. Zimmer. No. 972,977; Oct. 18; Sp. p. 3241; Gaz. vol. 159; p. 563.
Grain-conductor tubes, Device for automatically cutting finished telescopic. F. C. Wheeler. No. 965,781; July 26; Sp. p. 6014; Gaz. vol. 156; p. 1021.
Grain-conveyer. C. J. Hartley. No. 961,958; June 21; Sp. p. 3578; Gaz. vol. 155; p. 631.
Grain-cutting device. B. B. Turner and C. G. Pollock. No. 962,601; June 28; Sp. p. 5008; Gaz. vol. 155; p. 876.
Grain-decorticating machine. R. E. Kimball. No. 977,197; Nov. 29; Sp. p. 6904; Gaz. vol. 160; p. 1173.
Grain-distributer. C. W. Camp. No. 946,201; Jan. 11; Sp. p. 2619; Gaz. vol. 150; p. 435.
Grain-divider. P. O. Sandel and W. E. McCann. No. 952,362; Mar. 15; Sp. p. 3830; Gaz. vol. 152; p. 685.
Grain-drier. L. C. Kiser. No. 954,033; Apr. 5; Sp. p. 704; Gaz. vol. 153; p. 124.
Grain-drier. F. A. Wegner. No. 965,260; July 26; Sp. p. 4867; Gaz. vol. 156; p. 841.
Grain drying and steaming apparatus. P. Provost. No. 971,559; Oct. 4; Sp. p. 108; Gaz. vol. 159; p. 21.
Grain-drill. C. A. Pattison and L. E. Roby. No. 951,741; Mar. 8; Sp. p. 2587; Gaz. vol. 152; p. 447.
Grain-drill. W. Fetzer. No. 951,759; Mar. 8; Sp. p. 2630; Gaz. vol. 152; p. 454.
Grain-drill. J. F. Steward. No. 953,982; Apr. 5; Sp. p. 591; Gaz. vol. 153; p. 106.
Grain-drill. C. W. Dickinson. No. 964,767; July 19; Sp. p. 3885; Gaz. vol. 156; p. 645.
Grain-drill. E. G. Rådberg. No. 969,406; Sept. 6; Sp. p. 542; Gaz. vol. 158; p. 87.
Grain-drill boot. C. B. Dempster and W. Elliott. No. 967,341; Aug. 16; Sp. p. 3225; Gaz. vol. 157; p. 559.
Grain-drill hopper. A. H. Hadley. No 964,245; July 12; Sp. p. 2649; Gaz. vol. 156; p. 436.
Grain-drills, Grass-seeding attachment for. W. A. Van Brunt. No. 964,715; July 19; Sp. p. 3770; Gaz. vol. 156; p. 627.
Grain-drills, Pressure-regulating mechanism for. C. Kearin. No. 945,098; Jan. 4; Sp. p. 193; Gaz. vol. 150; p. 32.

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Grain-dump. W. E. and F. I. Merritt. No. 946,065; Jan. 11; Sp. p. 2332; Gaz. vol. 150; p. 388.
Grain elevator and dump. F. Kral. No. 961,970; June 21; Sp. p. 3605; Gaz. vol. 155; p. 634.
Grain-elevator, Portable. W. A. Caldwell. No. 970,464; Sept. 20; Sp. p. 2814; Gaz. vol. 158; p. 492.
Grain feeding or discharging apparatus. E. Moreau. No. 955,606; Apr. 19; Sp. p. 4132; Gaz. vol. 153; p. 719.
Grain-fork. C. M. Green. No. 966,197; Aug. 2; Sp. p. 763; Gaz. vol. 157; p. 120.
Grain-germinating apparatus. L. Mueller. No. 951,286; Mar. 8; Sp. p. 1666; Gaz. vol. 152; p. 295.
Grain-growing apparatus. A. W. Grunwaldt. No. 946,033; Jan. 11; Sp. p. 2271; Gaz. vol. 150; p. 378.
Grain-handling machine. J. White and C. Cole. No. 964,074; July 12; Sp. p. 2305; Gaz. vol. 156; p. 379.
Grain, hay, and manure loader. E. Erickson. No. 966,433; Aug. 9; Sp. p. 1227; Gaz. vol. 157; p. 222.
Grain-heater agitator. A. J. Koegler. No. 971,048; Sept. 27; Sp. p. 4071; Gaz. vol. 158; p. 721.
Grain-heater agitator. F. A. Wegner. No. 971,480; Sept. 27; Sp. p. 4913; Gaz. vol. 158; p. 860.
Grain-heater regulator. A. J. Koegler. No. 966,564; Aug. 9; Sp. p. 1578; Gaz. vol. 157; p. 269.
Grain-heater, Sectional. A. J. Koegler. No. 969,484; Sept. 6; Sp. p. 701; Gaz. vol. 158; p. 111.
Grain-heaters, Agitator for. A. J. Koegler. No. 960,024; May 31; Sp. p. 7820; Gaz. vol. 154; p. 1314.
Grain-heaters, Device for regulating the discharge of. F. A. Wegner. No. 971,479; Sept. 27; Sp. p. 4912; Gaz. vol. 158; p. 860.
Grain-huller. A. J. Baumann. No. 965,553; July 26; Sp. p. 5539; Gaz. vol. 156; p. 943.
Grain-loader. S. L. Cornatzer. No. 955,947; Apr. 26; Sp. p. 4887; Gaz. vol. 153; p. 865.
Grain-loading machine. J. R. Braden. No. 962,194; June 21; Sp. p. 4108; Gaz. vol. 155; p. 713.
Grain, Means for treating seed-. G. E. Daniels. No. 946,205; Jan. 11; Sp. p. 2626; Gaz. vol. 150; p. 437.
Grain-pickler. J. Wilhelm. No. 946,929; Jan. 18; Sp. p. 4321; Gaz. vol. 150; p. 709.
Grain pickling and cleaning machine. J. A. Cowan. No. 958,097; May 17; Sp. p. 3603; Gaz. vol. 154; p. 607.
Grain polisher and cleaner. I. Steiner. No. 951,549; Mar. 8; Sp. p. 2213; Gaz. vol. 152; p. 384.
Grain, Roasted sulfurized. E. Meyer. No. 945,567; Jan. 4; Sp. p. 1208; Gaz. vol. 150; p. 187.
Grain-saving device. J. Marshall. No. 956,591; May 3; Sp. p. 183; Gaz. vol. 154; p. 31.
Grain-saving device. B. G. Nelson. No. 976,745; Nov. 22; Sp. p. 5840; Gaz. vol. 160; p. 989.
Grain-separating screen. F. W. Hasch. No. 947,697; Jan. 25; Sp. p. 5974; Gaz. vol. 150; p. 994.
Grain-separator. H. A. Campbell. No. 945,487; Jan. 4; Sp. p. 1044; Gaz. vol. 150; p. 161.
Grain-separator. H. S. Adams. No. 956,617; May 3; Sp. p. 237; Gaz. vol. 154; p. 40.
Grain-separator. R. L. Owens. No. 964,307; July 12; Sp. p. 2779; Gaz. vol. 156; p. 458.
Grain-separator. J. Jacobs. No. 965,190; July 26; Sp. p. 4723; Gaz. vol. 156; p. 818.
Grain-separator. F. Ayler. No. 975,598; Nov. 15; Sp. p. 3381; Gaz. vol. 160; p. 574.
Grain-separator. E. J. Pidgeon. No. 977,677; Dec. 6; Sp. p. 579; Gaz. vol. 161; p. 88.
Grain separator and cleaner. F. Prinz. No. 963,392; July 5; Sp. p. 862; Gaz. vol. 156; p. 127.
Grain-separator cleaning attachment. F. Prinz. No. 975,995; Nov. 15; Sp. p. 4185; Gaz. vol. 160; p. 709.
Grain-separator feed-regulator. W. W. Keran. No. 968,364; Aug. 23; Sp. p. 5384; Gaz. vol. 157; p. 929.
Grain-separator for attachment to threshing-machines. W. J. McAdams. No. 956,719; May 3; Sp. p. 472; Gaz. vol. 154; p. 76.
Grain-separator straw-rack. W. Koester. No. 966,693; Aug. 9; Sp. p. 1826; Gaz. vol. 157; p. 312.
Grain-shocker. E. B. Rahner. No. 953,155; Mar. 29; Sp. p. 5544; Gaz. vol. 152; p. 1011.
Grain-shocker. J. G. Stewart. No. 958,190; May 17; Sp. p. 3790; Gaz. vol. 154; p. 640.
Grain-shocker. J. McCormick. No. 962,656; June 28; Sp. p. 5110; Gaz. vol. 155; p. 893.
Grain-shocking device, Hand. H. Ferris. No. 959,492; May 31; Sp. p. 6645; Gaz. vol. 154; p. 1133.
Grain-spout sections, Connector for. J. Redmond. No. 949,499; Feb. 15; Sp. p. 3603; Gaz. vol. 151; p. 628.
Grain spreader and feeder. A. Clark. No. 957,036; May 3; Sp. p. 1163; Gaz. vol. 154; p. 184.
Grain, Steeping. A. W. H. Lenders. No. 948,514; Feb. 8; Sp. p. 1551; Gaz. vol. 151; p. 274.
Grain-stripping machines, Adjustable comb for. E. A. A. Pavy. No. 955,098; Apr. 12; Sp. p. 3023; Gaz. vol. 153; p. 513.
Grain-treating apparatus. E. B. Cox. No. 961,068; June 7; Sp. p. 1664; Gaz. vol. 155; p. 279.
Grain-treating machine. R. Hart. No. 963,551; July 5; Sp. p. 1177; Gaz. vol. 156; p. 181.
Grains, Cleaning and separating. A. T. Hedfeldt. No. 971,609; Oct. 4; Sp. p. 219; Gaz. vol. 159; p. 39.
Graining-machine. G. A. Carlson. No. 963,989; July 12; Sp. p. 2143; Gaz. vol. 156; p. 349.
Graining-tool. F. M. Clapp. No. 960,821; June 7; Sp. p. 1178; Gaz. vol. 155; p. 196.
Gramophone. F. Haye and C. Wessels. No. 962,833; June 28; Sp. p. 5473; Gaz. vol. 155; p. 956.
Granary, Portable. W. J. Haas. No. 953,827; Apr. 5; Sp. p. 291; Gaz. vol. 153; p. 51.
Granular material, Apparatus for treating. G. F. Royer. No. 977,478; Dec. 6; Sp. p. 113; Gaz. vol. 161; p. 20.
Granular material, Holder and measuring device for. A. A. Hauty. No. 950,286; Feb. 22; Sp. p. 5323; Gaz. vol. 151; p. 933.
Grape, &c., picker. C. A. Freitag. No. 971,186; Sept. 27; Sp. p. 4365; Gaz. vol. 158; p. 766.
Graphite article and making the same. F. J. Tone. No. 977,984; Dec. 6; Sp. p. 1216; Gaz. vol. 161; p. 195.
Graphophone. B. Morton. No. 948,959; Feb. 8; Sp. p. 2473; Gaz. vol. 151; p. 420.
Graphophone, Multiple-record. A. J. K. Genella. No. 979,466; Dec. 27; Sp. p. 4419; Gaz. vol. 161; p. 782.
Graphophone, Multiplex. H. E. Markle. No. 962,446; June 28; Sp. p. 4655; Gaz. vol. 155; p. 822.
Graphophone repeating attachment. C. W. Claud. No. 962,315; June 21; Sp. p. 4358; Gaz. vol. 155; p. 752.
Graphophones and like machines, Record-plate for. W. C. Rhodes. No. 946,563; Jan. 18; Sp. p. 3484; Gaz. vol. 150; p. 586.
Graphoscope. J. A. Parker. No. 979,552; Dec. 27; Sp. p. 4607; Gaz. vol. 161; p. 811.
Grapple. P. L. Peterson. No. 956,995; May 3; Sp. p. 1082; Gaz. vol. 154; p. 169.
Grapple. R. T. Jones. No. 967,130; Aug. 9; Sp. p. 2799; Gaz. vol. 157; p. 459.
Grapple. A. A. Phillips and O. Schelling. No. 968,685; Aug. 30; Sp. p. 6103; Gaz. vol. 157; p. 1067.
Grapple. E. D. Coogan. No. 972,340; Oct. 11; Sp. p. 1789; Gaz. vol. 159; p. 314.
Grapple. R. F. Scott. No. 973,709; Oct. 25; Sp. p. 4824; Gaz. vol. 159; p. 839.
Grappling device. H. W. Erickson. No. 961,761; June 21; Sp. p. 3142; Gaz. vol. 155; p. 565.
Grappling-hook. F. M. Bell. No. 973,252; Oct. 18; Sp. p. 3849; Gaz. vol. 159; p. 658.
Grappling-hook, Hopper-closet. E. C. Fraw. No. 958,915; May 24; Sp. p. 5465; Gaz. vol. 154; p. 916.
Grass and ditch-line cutter. C. Dawes. No. 959,845; May 31; Sp. p. 7390; Gaz. vol. 154; p. 1251.
Grass-burning machine. J. R. Totman. No. 951,034; Mar. 1; Sp. p. 1164; Gaz. vol. 152; p. 190.
Grass-catcher. C. K. Hann. No. 954,569; Apr. 12; Sp. p. 1860; Gaz. vol. 153; p. 332.
Grass-catcher. F. Wetteroth. No. 955,565; Apr. 19; Sp. p. 4019; Gaz. vol. 153; p. 704.
Grass-catcher. F. Wetteroth. No. 955,566; Apr. 19; Sp. p. 4021; Gaz. vol. 153; p. 705.
Grass-catcher. F. Wetteroth. No. 955,567; Apr. 19; Sp. p. 4023; Gaz. vol. 153; p. 705.
Grass-crimping machine. K. Wessel. No. 951,863; Mar. 15; Sp. p. 2856; Gaz. vol. 152; p. 520.
Grass-cutter. A. Euchenhofer. No. 977,288; Nov. 29; Sp. p. 7074; Gaz. vol. 160; p. 1203.
Grass-cutter. J. C. Streibich. No. 977,569; Dec. 6; Sp. p. 350; Gaz. vol. 161; p. 51.
Grass-cutting machine. F. B. Dale and D. A. Crawford. No. 961,485; June 14; Sp. p. 2573; Gaz. vol. 155; p. 449.
Grass-destroyer. G. A. Nelson. No. 947,252; Jan. 25; Sp. p. 4951; Gaz. vol. 150; p. 843.
Grass destroyer, Quack-. J. A. Paulson. No. 968,684; Aug. 30; Sp. p. 6101; Gaz. vol. 157; p. 1067.
Grass digger, Quack-. H. N. Hanson. No. 968,658; Aug. 30; Sp. p. 6019; Gaz. vol. 157; p. 1057.
Grass-hooks or sickles, Implement for holding. C. A. Reitmeyer. No. 980,007; Dec. 27; Sp. p. 5590; Gaz. vol. 161; p. 965.
Grass, straw, and the like, Apparatus for separating and combing. G. A. Lowry. No. 959,240; May 24; Sp. p. 6121; Gaz. vol. 154; p. 1023.
Grasshopper-catcher. M. V. Whiting. No. 970,004; Sept. 13; Sp. p. 1867; Gaz. vol. 158; p. 317.
Grate. J. C. Bartlett. No. 946,316; Jan. 11; Sp. p. 2878; Gaz. vol. 150; p. 477.
Grate. J. W. Fowler. No. 949,065; Feb. 15; Sp. p. 2711; Gaz. vol. 151; p. 482.
Grate. W. E. Marengo. No. 959,568; May 31; Sp. p. 6810; Gaz. vol. 154; p. 1159.
Grate. F. Hilburger. No. 965,186; July 26; Sp. p. 4717; Gaz. vol. 156; p. 817.
Grate. J. Levey. No. 965,589; July 26; Sp. p. 5616; Gaz. vol. 156; p. 956.
Grate. D. Boies and J. A. Waddell, Jr. No. 968,735; Aug. 30; Sp. p. 6203; Gaz. vol. 157; p. 1084.
Grate. D. Boies and J. A. Waddell, Jr. No. 968,830; Aug. 30; Sp. p. 6388; Gaz. vol. 157; p. 1114.
Grate. H. H. Ruggles. No. 971,565; Oct. 4; Sp. p. 117; Gaz. vol. 159; p. 23.
Grate. W. N. Snow. No. 976,309; Nov. 22; Sp. p. 4933; Gaz. vol. 160; p. 841.
Grate. H. C. Stuckenburg. No. 979,719; Dec. 27; Sp. p. 4960; Gaz. vol. 161; p. 869.
Grate, Adjustable basket-. J. F. James. No. 955,269; Apr. 19; Sp. p. 3397; Gaz. vol. 153; p. 604.

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Grate and protector, Water-. J. G. B. Johnson. No. 967,128; Aug. 9; Sp. p. 2797; Gaz. vol. 157; p. 459.
Grate-bar. H. H. and P. McNaughton. No. 945,574; Jan. 4; Sp. p. 1226; Gaz. vol. 150; p. 190.
Grate-bar. E. W. Blanchard. No. 951,797; Mar. 15; Sp. p. 2721; Gaz. vol. 152; p. 497.
Grate-bar. J. and W. Reagan. No. 952,215; Mar. 15; Sp. p. 3532; Gaz. vol. 152; p. 635.
Grate-bar. J. S. Wilson. No. 955,031; Apr. 12; Sp. p. 2910; Gaz. vol. 153; p. 493.
Grate-bar. A. Wilderspin. No. 962,805; June 28; Sp. p. 5424; Gaz. vol. 155; p. 947.
Grate-bar. A. Wilderspin. No. 972,965; Oct. 18; Sp. p. 3216; Gaz. vol. 159; p. 559.
Grate-bar leaf, Renewable. T. S. Johnson. No. 949,079; Feb. 15; Sp. p. 2736; Gaz. vol. 151; p. 487.
Grate-bar, Rocking. C. R. Kline. No. 957,690; May 10; Sp. p. 2527; Gaz. vol. 154; p. 437.
Grate-basket. J. P. Watson. No. 972,665; Oct. 11; Sp. p. 2519; Gaz. vol. 159; p. 429.
Grate, Chain. E. C. Clark. No. 972,751; Oct. 11; Sp. p. 2695; Gaz. vol. 159; p. 458.
Grate cover, Air-. E. W. Ellington. No. 978,718; Dec. 13; Sp. p. 2823; Gaz. vol. 161; p. 479.
Grate deflector, Gas-. J. C. Calhoun. No. 951,363; Mar. 8; Sp. p. 1833; Gaz. vol. 152; p. 321.
Grate, Dumping-. F. W. Schnautz. No. 972,256; Oct. 11; Sp. p. 1631; Gaz. vol. 159; p. 286.
Grate, Fire-. J. H. and A. N. Spangelo. No. 951,345; Mar. 8; Sp. p. 1796; Gaz. vol. 152; p. 315.
Grate, Fireplace-. E. H. Sholar. No. 978,227; Dec. 13; Sp. p. 1749; Gaz. vol. 161; p. 308.
Grate for concentrator-jigs. S. P. Robinson. No. 960,111; May 31; Sp. p. 7992; Gaz. vol. 154; p. 1343.
Grate for refuse-consumers. J. A. Fried. No. 963,430; July 5; Sp. p. 936; Gaz. vol. 156; p. 140.
Grate-furnace. H. Murphy. No. 951,020; Mar. 1; Sp. p. 1143; Gaz. vol. 152; p. 186.
Grate furnace, Chain-. L. H. Maxfield. No. 946,762; Jan. 18; Sp. p. 3910; Gaz. vol. 150; p. 652.
Grate, Heating-. E. R. Cahoone. No. 976,039; Nov. 15; Sp. p. 4270; Gaz. vol. 160; p. 724.
Grate, Hollow water-heating. L. Kaufman. No. 976,080; Nov. 15; Sp. p. 4347; Gaz. vol. 160; p. 738.
Grate-lock, Automatic. M. J. Tierney. No. 946,081; Jan. 11; Sp. p. 2369; Gaz. vol. 150; p. 393.
Grate, Revolving. H. J. Corrigan. No. 970,890; Sept. 20; Sp. p. 3753; Gaz. vol. 158; p. 640.
Grate-shaker engine. W. F. Baker. No. 975,314; Nov. 8; Sp. p. 2790; Gaz. vol. 160; p. 451.
Grate, Shaking and dumping. C. F. Hutchinson. No. 978,589; Dec. 13; Sp. p. 2556; Gaz. vol. 161; p. 436.
Grates, Heating attachment for open. C. H. McCall. No. 971,063; Sept. 27; Sp. p. 4099; Gaz. vol. 158; p. 725.
Grater. G. J. Tatro. No. 963,661; July 5; Sp. p. 1392; Gaz. vol. 156; p. 217.
Grater. M. L. Opie. No. 973,693; Oct. 25; Sp. p. 4795; Gaz. vol. 159; p. 833.
Grater. A. D. Hopkins. No. 977,872; Dec. 6; Sp. p. 986; Gaz. vol. 161; p. 155.
Grater, Vegetable-. D. S. Washburn. No. 970,864; Sept. 20; Sp. p. 3704; Gaz. vol. 158; p. 633.
Grave-marker. A. Humble, Jr. No. 979,764; Dec. 27; Sp. p. 5079; Gaz. vol. 161; p. 884.
Gravel from sand, &c., Apparatus for separating. C. E. Torjusen and W. Idstrom. No. 958,565; May 17; Sp. p. 4687; Gaz. vol. 154; p. 770.
Gravel-trap and air-chamber. E. Cole. No. 968,124; Aug. 23; Sp. p. 4864; Gaz. vol. 157; p. 844.
Gravity-carrier. R. P. Mathews. No. 978,466; Dec. 13; Sp. p. 2263; Gaz. vol. 161; p. 392.
Gravity-jig attachment. F. Richardson. No. 959,607; May 31; Sp. p. 6881; Gaz. vol. 154; p. 1171.
Grease cartridge or container. R. V. Whitaker, Jr. No. 963,840; July 12; Sp. p. 1828; Gaz. vol. 156; p. 301.
Grease-cup. C. F. Tucker. No. 946,290; Jan. 11; Sp. p. 2816; Gaz. vol. 150; p. 469.
Grease-cup. K. O. and A. E. Dufva. No. 956,761; May 3; Sp. p. 561; Gaz. vol. 154; p. 90.
Grease-cup. J. G. Matheny. No. 959,023; May 24; Sp. p. 5658; Gaz. vol. 154; p. 951.
Grease-cup. J. F. Craven. No. 979,826; Dec. 27; Sp. p. 5219; Gaz. vol. 161; p. 905.
Grease-cup-filling device. J. W. Faessler and L. K. Smith. No. 947,807; Feb. 1; Sp. p. 54; Gaz. vol. 151; p. 12.
Grease-gun. S. P. Townsend. No. 971,939; Oct. 4; Sp. p. 935; Gaz. vol. 159; p. 159.
Grease-gun. G. W. Stone, Jr. No. 976,945; Nov. 29; Sp. p. 6326; Gaz. vol. 160; p. 1084.
Grease lubricator. H. S. Blynt. No. 946,484; Jan. 11; Sp. p. 3325; Gaz. vol. 150; p. 534.
Greenhouse-bench. W. Wait. No. 948,620; Feb. 8; Sp. p. 1784; Gaz. vol. 151; p. 306.
Greenhouse or the like, Portable. E. C. Kline. No. 956,771; May 3; Sp. p. 584; Gaz. vol. 154; p. 93.
Grille, Window-. R. A. W. Fox. No. 973,027; Oct. 18; Sp. p. 3361; Gaz. vol. 159; p. 581.
Grinder. F. A. Ward. No. 965,773; July 26; Sp. p. 5999; Gaz. vol. 156; p. 1019.
Grinder. W. H. Archer. No. 969,741; Sept. 6; Sp. p. 1267; Gaz. vol. 158; p. 203.
Grinder. T. A. Panyard. No. 970,542; Sept. 20; Sp. p. 2987; Gaz. vol. 158; p. 520.
Grinder and buffer, Knife. N. Peterson. No. 973,457; Oct. 18; Sp. p. 4279; Gaz. vol. 159; p. 729.
Grinder and polisher. E. Adam. No. 952,399; Mar. 15; Sp. p. 3896; Gaz. vol. 152; p. 697.
Grinder and pulper, Adjustable stock power. J. Sieffert. No. 950,518; Mar. 1; Sp. p. 124; Gaz. vol. 152; p. 20.
Grinder, Cutlery-. H. E. Sweet. No. 961,554; June 14; Sp. p. 2719; Gaz. vol. 155; p. 472.
Grinder, Cutter-. C. J. McCallum. No. 963,059; July 5; Sp. p. 61; Gaz. vol. 156; p. 12.
Grinder, Die-. W. A. Leonard. No. 976,270; Nov. 22; Sp. p. 4853; Gaz. vol. 160; p. 828.
Grinder, Feed-. J. E. Lappen. No. 954,114; Apr. 5; Sp. p. 870; Gaz. vol. 153; p. 151.
Grinder for ensilage-cutter and other knives. E. J. Young. No. 971,873; Oct. 4; Sp. p. 771; Gaz. vol. 159; p. 134.
Grinder for irregular surfaces. A. Roberts and A. Libert. No. 974,523; Nov. 1; Sp. p. 1031; Gaz. vol. 160; p. 154.
Grinder, Forage and grain. W. H. Hess. No. 963,224; July 5; Sp. p. 502; Gaz. vol. 156; p 70.
Grinder, Lawn-mower. P. H. Root. No. 950,560; Mar. 1; Sp. p. 210; Gaz. vol. 152; p. 34.
Grinder, Sand-. G. R. Bilz. No. 948,129; Feb. 1; Sp. p. 719; Gaz. vol. 151; p. 118.
Grinder, Sickle-. J. P. Kine. No. 971,449; Sept. 27; Sp. p. 4860; Gaz. vol. 158; p. 851.
Grinder, Swinging. M. F. Apgar. No. 955,626; Apr. 19; Sp. p. 4169; Gaz. vol. 153; p. 726.
Grinding and crushing mill. F. H. and F. H. Brown. No. 958,085; May 17; Sp. p. 3580; Gaz. vol. 154; p. 603.
Grinding and disintegrating machine. F. L. Kinsey. No. 978,034; Dec. 6; Sp. p. 1320; Gaz. vol. 161; p. 211.
Grinding and polishing disk. C. Glover. No. 959,054; May 24; Sp. p. 5721; Gaz. vol. 154; p. 961.
Grinding and polishing machine. J. Hausman and J. C. Blevney. No. 953,031; Mar. 29; Sp. p. 5261; Gaz. vol. 152; p. 970.
Grinding and polishing machine. F. Hayden. No. 976,875; Nov. 29; Sp. p. 6145; Gaz. vol. 160; p. 1059.
Grinding and polishing machine. J. C. Blevney and J. Hausman. No. 980,052; Dec. 27; Sp. p. 5693; Gaz. vol. 161; p. 980.
Grinding and polishing machine. J. C. Blevney and J. Hausman. No. 980,053; Dec. 27; Sp. p. 5697; Gaz. vol. 161; p. 981.
Grinding and polishing skate-runners, Apparatus or machine for. F. H. Koerner. No. 951,401; Mar. 8; Sp. p. 1919; Gaz. vol. 152; p. 333.
Grinding and separating apparatus. O. Porbeck. No. 946,864; Jan. 18; Sp. p. 4164; Gaz. vol. 150; p. 687.
Grinding and sharpening machine. H. D. Nicholls. No. 969,649; Sept. 6; Sp. p. 1057; Gaz. vol. 158; p. 170.
Grinding and sharpening machine, Knife. W. C. Stewart. No. 958,032; May 17; Sp. p. 3389; Gaz. vol. 154; p. 585.
Grinding and sifting apparatus. J. S. Fasting. No. 964,629; July 19; Sp. p. 3489; Gaz. vol. 156; p. 596.
Grinding and surfacing. H. B. Nichols. No. 960,188; May 31; Sp. p. 8139; Gaz. vol. 154; p. 1369.
Grinding and surfacing. H. B. Nichols. No. 961,523; June 14; Sp. p. 2639; Gaz. vol. 155; p. 461.
Grinding apparatus. S. T. Moore. No. 961,633; June 14; Sp. p. 2880; Gaz. vol. 155; p. 498.
Grinding attachment for sewing-machines. W. R. Brennan. No. 966,305; Aug. 2; Sp. p. 969; Gaz. vol. 157; p. 155.
Grinding-barrel. D. C. Demarest. No. 970,020; Sept. 13; Sp. p. 1904; Gaz. vol. 158; p. 323.
Grinding bran. D. Finkler. No. 972,103; Oct. 4; Sp. p. 1272; Gaz. vol. 159; p. 216.
Grinding cams, Machine for. M. A. Thiel. No. 957,392; May 10; Sp. p. 1927; Gaz. vol. 154; p. 335.
Grinding cocks, Machine for. P. Gerstenkorn. No. 959,506; May 31; Sp. p. 6684; Gaz. vol. 154; p. 1137.
Grinding cutlery-blades and the like, Machine for. T. R. Moore. No. 956,645; May 3; Sp. p. 297; Gaz. vol. 154; p. 49.
Grinding device. A. M. McLeran. No. 960,378; June 7; Sp. p. 289; Gaz. vol. 155; p. 48.
Grinding device. E. B. Pike and L. Hayne. No. 970,351; Sept. 13; Sp. p. 2570; Gaz. vol. 158; p. 434.
Grinding device for blades. R. Wolf and A. F. Bannister. No. 964,598; July 19; Sp. p. 3433; Gaz. vol. 156; p. 587.
Grinding-disks, Producing. F. N. and F. E. Gardner. No. 945,931; Jan. 11; Sp. p. 2065; Gaz. vol. 150; p. 344.
Grinding gig, Twist-drill-. W. E. Crowther. No. 978,851; Dec. 20; Sp. p. 3068; Gaz. vol. 161; p. 545.
Grinding lawn-mowers, Clamping device for. J. F. S. Goble. No. 960,163; May 31; Sp. p. 8087; Gaz. vol. 154; p. 1360.
Grinding-machine. A. B. Landis. No. 945,463; Jan. 4; Sp. p. 971; Gaz. vol. 150; p. 153.
Grinding-machine. A. B. Landis. No. 945,464; Jan. 4; Sp. p. 976; Gaz. vol. 150; p. 153.
Grinding-machine. A. B. Landis. No. 945,465; Jan. 4; Sp. p. 981; Gaz. vol. 150; p. 154.
Grinding-machine. A. B. Landis. No. 945,467; Jan. 4; Sp. p. 985; Gaz. vol. 150; p. 155.

Grinding-machine. C. H. Norton, J. C. Spence, and H. N. Cudworth. No. 945,979; Jan. 11; Sp. p. 2164; Gaz. vol. 150; p. 360.
Grinding-machine. J. F. Lynch. No. 947,249; Jan. 25; Sp. p. 4945; Gaz. vol. 150; p. 842.
Grinding-machine. C. W. Renear. No. 954,134; Apr. 5; Sp. p. 903; Gaz. vol. 153; p. 157.
Grinding-machine. O. Ashton. No. 955,934; Apr. 26; Sp. p. 4864; Gaz. vol. 153; p. 860.
Grinding-machine. E. F. Smith. No. 956,208; Apr. 26; Sp. p. 5469; Gaz. vol. 153; p. 957.
Grinding-machine. A. C. Warner. No. 956,237; Apr. 26; Sp. p. 5542; Gaz. vol. 153; p. 967.
Grinding-machine. P. J. Poitras and W. Caron. No. 961,010; June 7; Sp. p. 1553; Gaz. vol. 155; p. 260.
Grinding-machine. C. Hayes, Jr. No. 961,774, June 21; Sp. p. 3171; Gaz. vol. 155; p. 569.
Grinding-machine. A. C. Warner. No. 963,964; July 12; Sp. p. 2079; Gaz. vol. 156; p. 340.
Grinding-machine. D. E. Plaisted. No. 965,222; July 26; Sp. p. 4786; Gaz. vol. 156; p. 828.
Grinding-machine. E. B. Pike and L. Hayne. No. 965,933; Aug. 2; Sp. p. 178; Gaz. vol. 157; p. 30.
Grinding-machine. L. N. Davis. No. 970,691; Sept. 20; Sp. p. 3324; Gaz. vol. 158; p. 571.
Grinding-machine. W. J. Bell. No. 971,108; Sept. 27; Sp. p. 4193; Gaz. vol. 158; p. 740.
Grinding-machine. C. G. Smith. No. 971,697; Oct. 4; Sp. p. 388; Gaz. vol. 159; p. 68.
Grinding-machine. W. E. Nickerson. No. 971,860; Oct. 4; Sp. p. 740; Gaz. vol. 159; p. 129.
Grinding-machine. W. E. Nickerson. No. 971,861; Oct. 4; Sp. p. 746; Gaz. vol. 159; p. 130.
Grinding-machine. B. M. W. Hanson. No. 975,382; Nov. 8; Sp. p. 2930; Gaz. vol. 160; p. 473.
Grinding-machine. A. Lilljiquist. No. 975,966; Nov. 15; Sp. p. 4137; Gaz. vol. 160; p. 699.
Grinding-machine. F. Welker. No. 977,060; Nov. 29; Sp. p. 6583; Gaz. vol. 160; p. 1123.
Grinding-machine. H. B. Nichols. No. 977,324; Nov. 29; Sp. p. 7138; Gaz. vol. 160; p. 1215.
Grinding-machine. W. D. Pierson. No. 980,122; Dec. 27; Sp. p. 5874; Gaz. vol. 161; p. 1003.
Grinding-machine attachment, Flat-surface-. M. J. Neumuth. No. 975,785; Nov. 15; Sp. p. 3783; Gaz. vol. 160; p. 637.
Grinding machine, Awl-. W. B. Morse. No. 969,896; Sept. 13; Sp. p. 1627; Gaz. vol. 158; p. 280.
Grinding machine, Ball-. C. A. Hirth. No. 967,918; Aug. 23; Sp. p. 4408; Gaz. vol. 157; p. 776.
Grinding machine, Ball-. B. Eitner. No. 977,717; Dec. 6; Sp. p. 668; Gaz. vol. 161; p. 102.
Grinding machine, Ball-. B. Eitner. No. 977,718; Dec. 6; Sp. p. 669; Gaz. vol. 161; p. 103.
Grinding machine, Ball-. B. Eitner. No. 977,719; Dec. 6; Sp. p. 670; Gaz. vol. 161; p. 103.
Grinding machine, Cutlery-. C. L. Joy. No. 961,864; June 21; Sp. p. 3388; Gaz. vol. 155; p. 599.
Grinding-machine, Electric. W. A. Ireland. No. 968,768; Aug. 30; Sp. p. 6273; Gaz. vol. 157; p. 1095.
Grinding-machine feeding mechanism. C. M. Conradson. No. 957,935; May 17; Sp. p. 3057; Gaz. vol. 154; p. 549.
Grinding-machine feeding mechanism. C. M. Conradson. No. 957,936; May 17; Sp. p. 3062; Gaz. vol. 154; p. 550.
Grinding machine, Hay-. D. Prilliman. No. 954,540; Apr. 12; Sp. p. 1801; Gaz. vol. 153; p. 323.
Grinding machine, Knife-. W. C. Stewart. No. 958,030; May 17; Sp. p. 3384; Gaz. vol. 154; p. 584.
Grinding machine or the like, Gear-. W. F. Wagner. No. 966,967; Aug. 9; Sp. p. 2444; Gaz. vol. 157; p. 402.
Grinding machine, Saw-. F. A. Hunter and G. S. Turner. No. 952,907; Mar. 22; Sp. p. 5002; Gaz. vol. 152; p. 899.
Grinding-machines and foot-power apparatus, Ratchet for. G. W. Riddle. No. 973,974; Oct. 25; Sp. p. 5354; Gaz. vol. 159; p. 932.
Grinding-machines, Diamonding-tool for. A. B. Landis. No. 945,466; Jan. 4; Sp. p. 983; Gaz. vol. 150; p. 154.
Grinding-mill. F. B. Canode. No. 946,107; Jan. 11; Sp. p. 2415; Gaz. vol. 150; p. 402.
Grinding-mill. J. C. Bowsher. No. 947,275; Jan. 25; Sp. p. 5038; Gaz. vol. 150; p. 851.
Grinding-mill. T. Cascaden, Jr. No. 948,466; Feb. 8; Sp. p. 1434; Gaz. vol. 151; p. 256.
Grinding-mill. L. E. Simpson. No. 950,580; Mar. 1; Sp. p. 248; Gaz. vol. 152; p. 41.
Grinding-mill. J. Walker. No. 950,972; Mar. 1; Sp. p. 1067; Gaz. vol. 152; p. 171.
Grinding-mill. E. T. Lansdowne. No. 952,820; Mar. 22; Sp. p. 4839; Gaz. vol. 152; p. 870.
Grinding-mill. O. Moberg. No. 953,151; Mar. 29; Sp. p. 5538; Gaz. vol. 152; p. 1010.
Grinding-mill. G. Carlson. No. 959,714; May 31; Sp. p. 7098; Gaz. vol. 154; p. 1205.
Grinding-mill. G. S. Emerick. No. 964,224; July 12; Sp. p. 2605; Gaz. vol. 156; p. 429.
Grinding-mill. C. W. Renear. No. 973,811; Oct. 25; Sp. p. 5028; Gaz. vol. 159; p. 874.
Grinding-mill. K. O. S. Thors. No. 975,807; Nov. 15; Sp. p. 3827; Gaz. vol. 160; p. 644.
Grinding-mill. J. Bercha. No. 980,048; Dec. 27; Sp. p. 5685; Gaz. vol. 161; p. 979.
Grinding-mill, Roller. F. I. Matthews. No. 952,269; Mar. 15; Sp. p. 3640; Gaz. vol. 152; p. 654.
Grinding-mill, Rolling-balls. L. Hoffmann. No. 975,864; Nov. 15; Sp. p. 3940; Gaz. vol. 160; p. 663.
Grinding-mills, Sealing-ring for. C. L. Petrikin and C. R. Dimm. No. 972,470; Oct. 11; Sp. p. 2069; Gaz. vol. 159; p. 360.
Grinding mowing-machine knives and the like, Grinding-rest for use in. W. Rawlinson. No. 956,416; Apr. 26; Sp. p. 5907; Gaz. vol. 153; p. 1027.
Grinding or polishing articles, Apparatus for. G. and G. Krohn. No. 952,910; Mar. 22; Sp. p. 5009; Gaz. vol. 152; p. 900.
Grinding or polishing machine. E. Rivett. No. 955,206; Apr. 19; Sp. p. 3257; Gaz. vol. 153; p. 584.
Grinding or polishing wheel. C. B. Wattles. No. 967,592; Aug. 16; Sp. p. 3746; Gaz. vol. 157; p. 644.
Grinding or reducing alfalfa to meal, Mill or machine for. J. Wyss. No. 962,543; June 28; Sp. p. 4872; Gaz. vol. 155; p. 856.
Grinding-roll. J. Deelen. No. 964,000; July 12; Sp. p. 2162; Gaz. vol. 156; p. 353.
Grinding rollers, Machine for. G. Weeks. No. 965,776; July 26; Sp. p. 6005; Gaz. vol. 156; p. 1020.
Grinding straight machine-knives, Machine for. F. Franke. No. 946,635; Jan. 18; Sp. p. 3631; Gaz. vol. 150; p. 609.
Grinding the teeth of gear-wheels, Machine for. F. A. Phelps. No. 946,153; Jan. 11; Sp. p. 2511; Gaz. vol. 150; p. 419.
Grinding-tool. M. F. Parsons. No. 956,822; May 3; Sp. p. 705; Gaz. vol. 154; p. 111.
Grinding-tool. E. J. Fink. No. 964,636; July 19; Sp. p. 3503; Gaz. vol. 156; p. 599.
Grinding, turning, and finishing shafting, &c., Machine for. A. Macdonald. No. 979,976; Dec. 27; Sp. p. 5527; Gaz. vol. 161; p. 954.
Grinding, turning, and finishing shafts, piston-rods, pins, tools, &c., Machine for. A. Macdonald. No. 979,975; Dec. 27; Sp. p. 5523; Gaz. vol. 161; p. 954.
Grinding twist-drills, borers, and the like, Apparatus for. F. Schmaltz. No. 965,952; Aug. 2; Sp. p. 210; Gaz. vol. 157; p. 37.
Grinding-wheel. G. Hart. No. 945,526; Jan. 4; Sp. p. 1124; Gaz. vol. 150; p. 173.
Grinding-wheel. H. B. Nichols. No. 977,325; Nov. 29; Sp. p. 7142; Gaz. vol. 160; p. 1216.
Grinding-wheel, &c. L. R. L. Wallén. No. 975,089; Nov. 8; Sp. p. 2284; Gaz. vol. 160; p. 373.
Grinding-wheel guard. W. Stone. No. 953,496; Mar. 29; Sp. p. 6286; Gaz. vol. 152; p. 1126.
Grindstone. J. S. Dreadon. No. 945,499; Jan. 4; Sp. p. 1070; Gaz. vol. 150; p. 165.
Grindstone-frame. T. C. Prouty. No. 951,578; Mar. 8; Sp. p. 2264; Gaz. vol. 152; p. 393.
Grindstone truing or dressing apparatus. S. King. No. 957,689; May 10; Sp. p. 2526; Gaz. vol. 154; p. 437.
Grip device, Intermittent. L. C. Pond and G. C. Wagner. No. 949,304; Feb. 15; Sp. p. 3190; Gaz. vol. 151; p. 563.
Gripper. E. A. Stiggins. No. 954,008; Apr. 5; Sp. p. 644; Gaz. vol. 153; p. 115.
Gripper. T. J. Sproul. No. 963,087; July 5; Sp. p. 121; Gaz. vol. 156; p. 21.
Gripper mechanism. C. Van Middlesworth. No. 952,285; Mar. 15; Sp. p. 3687; Gaz. vol. 152; p. 659.
Gripper mechanism. C. Van Middlesworth. No. 965,128; July 19; Sp. p. 4589; Gaz. vol. 156; p. 766.
Grippers. R. F. McFeely. No. 959,874; May 31; Sp. p. 7455; Gaz. vol. 154; p. 1260.
Gripping device. W. D. Roop. No. 971,080; Sept. 27; Sp. p. 4145; Gaz. vol. 158; p. 731.
Gripping mechanism. C. A. Morris. No. 975,710; Nov. 15; Sp. p. 3625; Gaz. vol 160; p. 611.
Gripping, pasting, and folding mechanism. G. W. Swift, Jr. No. 961,324; June 14; Sp. p. 2242; Gaz. vol. 155; p. 395.
Gripping-tool. A. S. F. Robinson. No. 979,563; Dec. 27; Sp. p. 4640; Gaz. vol. 161; p. 815.
Grizzly. H. A. Corliss. No. 969,603; Sept. 6; Sp. p. 973; Gaz. vol. 158; p. 154.
Grooving-tool. E. P. Dann. No. 968,745; Aug. 30; Sp. p. 6222; Gaz. vol. 157; p. 1088.
Ground-clamp. H. E. Adams. No. 972,489; Oct. 11; Sp. p. 2107; Gaz. vol. 159; p. 367.
Ground-connector. J. L. Donald. No. 970,693; Sept. 20; Sp. p. 3327; Gaz. vol. 158; p. 572.
Grout-mixer. W. McIlvrid. No. 958,421; May 17; Sp. p. 4406; Gaz. vol. 154; p. 721.
Grubber and cultivator, Combined grass-. C. W. Stark. No. 975,173; Nov. 8; Sp. p. 2487; Gaz. vol. 160; p. 402.
Grubbing machine, Sage-brush-. S. T. Durant and G. Gunderson. No. 978,118; Dec. 6; Sp. p. 1500; Gaz. vol. 161; p. 241.
Guaiacol and making same, Compound of. F. Elger. No. 951,634; Mar. 8; Sp. p. 2379; Gaz. vol. 152; p. 412.
Guano-distributer. L. J. Akins. No. 977,773; Dec. 6; Sp. p. 781; Gaz. vol. 161; p. 121.
Guard. R. Pollak. No. 967,971; Aug. 23; Sp. p. 4516; Gaz. vol. 157; p. 794.
Guard. D. D. Ogilvie. No. 970,099; Sept. 13; Sp. p. 2060; Gaz. vol. 158; p. 349.

Alphabetical list of inventions—Continued.

Guitar. P. Benson and J. L. Johanson. No. 976,428; Nov. 22; Sp. p. 5193; Gaz. vol. 160; p. 882.
Gum, Manufacture of chewing-. J. D. Darling. No. 947,635; Jan. 25; Sp. p. 5867; Gaz. vol. 150; p. 974.
Gum-box. J. Taylor, Jr. No. 967,265; Aug. 16; Sp. p. 3070; Gaz. vol. 157; p. 532.
Gum-box. O. W. Blake. No. 969,329; Sept. 6; Sp. p. 374; Gaz. vol. 158; p. 61.
Gum-breaking machine. H. Y. Armstrong. No. 954,773; Apr. 12; Sp. p. 2340; Gaz. vol. 153; p. 404.
Gum, Chewing-. O. J. Buck. No. 969,458; Sept. 6; Sp. p. 637; Gaz. vol. 158; p. 102.
Gum-chip-forming machine, Chewing-. J. H. Brady. No. 966,160; Aug. 2; Sp. p. 689; Gaz. vol. 157; p. 108.
Gummed-strip-serving apparatus. F. E. Francis. No. 952,106; Mar. 15; Sp. p. 3326; Gaz. vol. 152; p. 599.
Gumming device for envelop, bag, and like making machines. R. E. Fischer and M. Wescher. No. 959,493; May 31; Sp. p. 6647; Gaz. vol. 154; p. 1133.
Gumming mechanism. E. H. Taylor. No. 966,619; Aug. 9; Sp. p. 1686; Gaz. vol. 157; p. 287.
Gumming or pasting machine. W. F. Strehler. No. 964,133; July 12; Sp. p. 2435; Gaz. vol. 156; p. 399.
Gun. F. B. Patterson. No. 952,940; Mar. 22; Sp. p. 5070; Gaz. vol. 152; p. 911.
Gun. T. G. Mills. No. 953,426; Mar. 29; Sp. p. 6133; Gaz. vol. 152; p. 1101.
Gun. G. B. Reid. No. 955,436; Apr. 19; Sp. p. 3753; Gaz. vol. 153; p. 660.
Gun. M. Telecheff. No. 959,648; May 31; Sp. p. 6964; Gaz. vol. 154; p. 1185.
Gun. S. N. McClean. No. 968,678; Aug. 30; Sp. p. 6078; Gaz. vol. 157; p. 1065.
Gun. N. Dunham. No. 978,144; Dec. 13; Sp. p. 1583; Gaz. vol. 161; p. 281.
Gun aiming apparatus. K. Völler. No. 979,232; Dec. 20; Sp. p. 3952; Gaz. vol. 161; p. 682.
Gun, Air-. E. H. Searle. No. 959,889; May 31; Sp. p. 7491; Gaz. vol. 154; p. 1266.
Gun, Air-. G. E. Heckman. No. 962,217; June 21; Sp. p. 4144; Gaz. vol. 155; p. 719.
Gun, Air-. D. J. Rieger. No. 964,810; July 19; Sp. p. 3966; Gaz. vol. 156; p. 659.
Gun attachment. G. P. Riggs. No. 955,694; Apr. 19; Sp. p. 4333; Gaz. vol. 153; p. 749.
Gun, Automatic. G. Hammond. No. 954,797; Apr. 12; Sp. p. 2385; Gaz. vol. 153; p. 412.
Gun, Automatic. G. Hammond. No. 954,798; Apr. 12; Sp. p. 2398; Gaz. vol. 153; p. 412.
Gun, Automatic. G. Hammond. No. 954,799; Apr. 12; Sp. p. 2409; Gaz. vol. 153; p. 413.
Gun, Automatic. G. Colleoni. No. 960,825 · June 7; Sp. p. 1185; Gaz. vol. 155; p. 198.
Gun-barrel. S. Faber. No. 951,603; Mar. 8; Sp. p. 2306; Gaz. vol. 152; p. 400.
Gun, Breech-loading. C. P. E. Schneider and E. Rimailho. No. 946,826; Jan. 18; Sp. p. 4069; Gaz. vol. 150; p. 674.
Gun, Breech-loading. J. A. Ricketts. No. 975,071; Nov. 8; Sp. p. 2249; Gaz. vol. 160; p. 367.
Gun carriages, Saddle for machine-. W. Sonnberg. No. 964,821; July 19; Sp. p. 3984; Gaz. vol. 156; p. 663.
Gun-cleaner. M. O. Yerkey. No. 959,680; May 31; Sp. p. 7037; Gaz. vol. 154; p. 1195.
Gun, Differential-recoil. K. Haussner. No. 958,119; May 17; Sp. p. 3645; Gaz. vol. 154; p. 615.
Gun firing mechanism. J. F. Meigs and S. A. S. Hammar. No. 958,660; May 17; Sp. p. 4869; Gaz. vol. 154; p. 800.
Gun firing mechanism. C. Green. No. 974,259; Nov. 1; Sp. p. 396; Gaz. vol. 160; p. 58.
Gun firing mechanism, Breech-loading-. A. T. Dawson and G. T. Buckham. No. 973,482; Oct. 25; Sp. p. 4337; Gaz. vol. 159; p. 760.
Gun for scaring birds or like purposes, Automatically-operated. W. Roeder. No. 952,018; Mar. 15; Sp. p. 3168; Gaz. vol. 152; p. 570.
Gun, Gopher-. F. M. Austin. No. 964,367; July 12; Sp. p. 2889; Gaz. vol. 156; p. 477.
Gun, Grease-. W. S. Stapley. No. 949,163; Feb. 15; Sp. p. 2908; Gaz. vol. 151; p. 515.
Gun-lock. M. Taylor. No. 955,015; Apr. 12; Sp. p. 2877; Gaz. vol. 153; p. 488.
Gun, Machine-. R. Raines. No. 965,538; July 26; Sp. p. 5506; Gaz. vol. 156; p. 938.
Gun-magazine. H. Sunngård. No. 979,721; Dec. 27; Sp. p. 4964; Gaz. vol. 161; p. 870.
Gun-mount. D. J. Cartwright. No. 974,552; Nov. 1; Sp. p. 1102; Gaz. vol. 160; p. 166.
Gun-muffler. G. F. Childress. No. 953,943; Apr. 5; Sp. p. 514; Gaz. vol. 153; p. 93.
Gun-muffler. J. H. Stinson. No. 959,400; May 24; Sp. p. 6428; Gaz. vol. 154; p. 1075.
Gun, Parachute-. F. D. Barnes. No. 965,361; July 26; Sp. p. 5107; Gaz. vol. 156; p. 876.
Gun, Pneumatic. A. L. Blomén. No. 976,429; Nov. 22; Sp. p. 5194; Gaz. vol. 160; p. 883.
Gun protective shield. J. Singer. No. 964,570; July 19; Sp. p. 3378; Gaz. vol. 156; p. 577.
Gun-ramming apparatus. E. Schneider. No. 947,600; Jan. 25; Sp. p. 5795; Gaz. vol. 150; p. 962.
Gun, Recoil-loading. C. A. T. Sjögren. No. 954,546; Apr. 12; Sp. p. 1812; Gaz. vol. 153; p. 325.
Gun, Recoiling-barrel. T. C. Johnson. No. 946,134; Jan. 11; Sp. p. 2464; Gaz. vol. 150; p. 411.
Gun-rod, Telescopic. E. F. Darnell. No. 945,491; Jan. 4; Sp. p. 1056; Gaz. vol. 150; p. 163.
Gun safety-lock. G. E. Heckman. No. 964,253; July 12; Sp. p. 2663; Gaz. vol. 156; p. 439.
Gun-sight. C. F. Wollenberg. No. 958,951; May 24; Sp. p. 5518; Gaz. vol. 154; p. 927.
Gun-sight. N. S. Sober. No. 962,596; June 28; Sp. p. 4994; Gaz. vol. 155; p. 874.
Gun-sight. W. L. Hall. No. 965,454; July 26; Sp. p. 5307; Gaz. vol. 156; p. 907.
Gun-sight. C. A. Wingren. No. 965,677; July 26; Sp. p. 5806; Gaz. vol. 156; p. 986.
Gun-sight. S. Bishop. No. 968,115; Aug. 23; Sp. p. 4847; Gaz. vol. 157; p. 841.
Gun-sight-adjusting means. D. C. Cleary. No. 960,153; May 31; Sp. p. 8069; Gaz. vol. 154; p. 1356.
Gun-sight protector. W. Langstroth. No. 958,655; May 17; Sp. p. 4861; Gaz. vol. 154; p. 798.
Gun-sight, Rear. D. W. King. No. 978,382; Dec. 13; Sp. p. 2089; Gaz. vol. 161; p. 364.
Gun sighting apparatus. C. P. E. Schneider and E. Rimailho. No. 946,402; Jan. 11; Sp. p. 3149; Gaz. vol. 150; p. 507.
Gun sighting apparatus. C. P. E. Schneider and E. Rimailho. No. 947,720; Jan. 25; Sp. p. 6016; Gaz. vol. 150; p. 1002.
Gun sighting apparatus. E. Schneider. No. 952,363; Mar. 15; Sp. p. 3831; Gaz. vol. 152; p. 685.
Gun, Single-trigger double-barrel sporting-. R. J. Petersen. No. 967,969; Aug. 23; Sp. p. 4509; Gaz. vol. 157; p. 793.
Gun-stock. G. A. Stevens. No. 961,041; June 7; Sp. p. 1615; Gaz. vol. 155; p. 270.
Gun-stock, Adjustable. S. Powers. No. 959,069; May 24; Sp. p. 5774; Gaz. vol. 154; p. 967.
Gun-support. L. V. Benét and H. A. Mercié. No. 959,291; May 24; Sp. p. 6219; Gaz. vol. 154; p. 1039.
Gun, Take-down. T. C. Johnson. No. 962,899; June 28; Sp. p. 5596; Gaz. vol. 155; p. 979.
Gun, Take-down. F. F. Knous. No. 964,167; July 12; Sp. p. 2491; Gaz. vol. 156; p. 410.
Gun, Take-down. T. C. Johnson. No. 964,974; July 19; Sp. p. 4292; Gaz. vol. 156; p. 716.
Gun training and elevating mechanism. J. F. Meigs and H. G. Jakobsson. No. 958,515; May 17; Sp. p. 4593; Gaz. vol. 154; p. 754.
Gun training and elevating mechanism. J. F. Meigs and A. S. Hammar. No. 964,927; July 19; Sp. p. 4203; Gaz. vol. 156; p. 701.
Gun, Trap-. W. M. Lindsey. No. 967,026; Aug. 9; Sp. p. 2580; Gaz. vol. 157; p. 423.
Gun, Trap-. C. D. Lovelace. No. 975,967; Nov. 15; Sp. p. 4142; Gaz. vol. 160; p. 700.
Gun, Trick-. G. P. Riggs. No. 958,712; May 17; Sp. p. 4968; Gaz. vol. 154; p. 817.
Gun, Trick-. I. A. Mamaux. No. 967,140; Aug. 9; Sp. p. 2822; Gaz. vol. 157; p. 463.
Gun, Trick water-. E. De Moulin. No. 956,760; May 3; Sp. p. 560; Gaz. vol. 154; p. 89.
Gun, Trick water-. E. De Moulin. No. 958,711; May 17; Sp. p. 4966; Gaz. vol. 154; p. 817.
Gun, Tubular-magazine. T. C. Johnson. No. 961,412; June 14; Sp. p. 2396; Gaz. vol. 155; p. 424.
Gun, Vaporic-steam. G. W. Browne. No. 964,386; July 12; Sp. p. 2925; Gaz. vol. 156; p. 483.
Guns, Cartridge-feed mechanism of Maxim. G. T. Buckham. No. 951,999; Mar. 15; Sp. p. 3130; Gaz. vol. 152; p. 564.
Guns, Feed apparatus for automatic. L. B. Benét. No. 958,078; May 17; Sp. p. 3566; Gaz. vol. 154; p. 601.
Guns having differential recoil, Retarding apparatus for. K. Haussner. No. 955,795; Apr. 19; Sp. p. 4534; Gaz. vol. 153; p. 783.
Guns having differential recoil, Retarding apparatus for. K. Haussner. No. 955,796; Apr. 19; Sp. p. 4536; Gaz. vol. 153; p. 784.
Guns having differential recoil, Retarding apparatus for. K. Haussner. No. 955,797; Apr. 19; Sp. p. 4538; Gaz. vol. 153; p. 784.
Guns, projectors, and the like, Training mechanism for. J. L. Hall. No. 953,139; Mar. 29; Sp. p. 5513; Gaz. vol. 152; p. 1006.
Guns, Single-trigger mechanism for double-barrel. F. C. Lefler. No. 955,275; Apr. 19; Sp. p. 3407; Gaz. vol. 153; p. 606.
Guns, Spade for portable recoil-. N. Koch. No. 962,032; June 21; Sp. p. 3727; Gaz. vol. 155; p. 654.
Gunboat and torpedo-boat, Semisubmerged submarine. H. Hertzberg, A. A. Low, and M. J. Wohl. No. 971,676; Oct. 4; Sp. p. 350; Gaz. vol. 159; p. 61.
Gunpowder into particles or grains, Machinery or apparatus for dividing gelatinous. G. H. Wadsworth. No. 946,745; Jan. 18; Sp. p. 3864; Gaz. vol. 150; p. 645.
Gunpowder, Manufacture of. J. Luciani. No. 952,538; Mar. 22; Sp. p. 4215; Gaz. vol. 152; p. 773.

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Gunpowder, Nitrocellulose. C. H. H. Claessen. No. 979,431; Dec. 27; Sp. p. 4338; Gaz. vol. 161; p. 770.
Gutter-hanger. W. A. Williams. No. 966,632; Aug. 9; Sp. p. 1706; Gaz. vol. 157; p. 292.
Guy-wires, Take-up device for. E. C. Gillespie. No. 976,865; Nov. 29; Sp. p. 6128; Gaz. vol. 160; p. 1056.
Gymnastic apparatus. P. B. Kelly. No. 961,450; June 14; Sp. p. 2487; Gaz. vol. 155; p. 437.
Gypsum-block-making machine. W. M. Cowley. No. 980,144; Dec. 27; Sp. p. 5919; Gaz. vol. 161; p. 1010.
Gyratory crusher. J. B. Rhodes. No. 945,806; Jan. 11; Sp. p. 1769; Gaz. vol. 150; p. 297.
Gyratory crusher. G. F. De Wein. No. 961,084; June 7; Sp. p. 1709; Gaz. vol. 155; p. 284.
Gyratory machine. J. Fraser. No. 948,047; Feb. 1; Sp. p. 562; Gaz. vol. 151; p. 90.
Gyratory machine. J. Fraser. No. 952,565; Mar. 22; Sp. p. 4268; Gaz. vol. 152; p. 782.
Gyroscope. H. Anschütz-Kaempfe. No. 973,611; Oct. 25; Sp. p. 4617; Gaz. vol. 159; p. 803.
Gyroscope and sphere. J. F. O'Byrne. No. 975,988; Nov. 15; Sp. p. 4173; Gaz. vol. 160; p. 707.
Hacksaw. J. T. Nacey. No. 972,085; Oct. 4; Sp. p. 1243; Gaz. vol. 159; p. 210.
Hacksaw. A. H. Hoffmann. No. 973,431; Oct. 18; Sp. p. 4228; Gaz. vol. 159; p. 720.
Hacksaw-frame. J. Docherty. No. 965,800; July 26; Sp. p. 6062; Gaz. vol. 156; p. 1027.
Hacksaw-machine. M. H. Johnson. No. 967,640; Aug. 16; Sp. p. 3837; Gaz. vol. 157; p. 659.
Hacksaw-machine. F. S. Bradley. No. 968,026; Aug. 23; Sp. p. 4650; Gaz. vol. 157; p. 812.
Hair-comb. J. H. Aker. No. 960,243; June 7; Sp. p. 1; Gaz. vol. 155; p. 3.
Hair-comb. J. Cranmer. No. 964,494; July 19; Sp. p. 3162; Gaz. vol. 156; p. 550.
Hair, Composition of matter to be used for the removal of superfluous. C. J. Brown. No. 949,925; Feb. 22; Sp. p. 4523; Gaz. vol. 151; p. 807.
Hair, Curing. G. E. Dyck. No. 937,316; May 10; Sp. p. 1775; Gaz. vol. 154; p. 310.
Hair-curler. S. A. Fisher. No. 950,066; Mar. 1; Sp. p. 1221; Gaz. vol. 152; p. 200.
Hair-curler. L. Durbyelle. No. 975,222; Nov. 8; Sp. p. 2599; Gaz. vol. 160; p. 419.
Hair curler and waver. W. F. Freeman. No. 957,462; May 10; Sp. p. 2070; Gaz. vol. 154; p. 359.
Hair curler and waver. J. F. Martin. No. 961,725; June 14; Sp. p. 3052; Gaz. vol. 155; p. 529.
Hair-curling device. D. Marinsky. No. 967,216; Aug. 16; Sp. p. 2973; Gaz. vol. 157; p. 515.
Hair-dressing apparatus. C. J. Packard. No. 969,114; Aug. 30; Sp. p. 6965; Gaz. vol. 157; p. 1212.
Hair-dressing comb. C. H. Royalty. No. 970,396; Sept. 13; Sp. p. 2657; Gaz. vol. 158; p. 449.
Hair-drier. F. N. Hunnewell. No. 961,498; June 14; Sp. p. 2602; Gaz. vol. 155; p. 454.
Hair-drying device. R. Parker. No. 949,713; Feb. 15; Sp. p. 4012; Gaz. vol. 151; p. 698.
Hair-dyeing comb. M. E. Waite. No. 945,647; Jan. 4; Sp. p. 1372; Gaz. vol. 150; p. 214.
Hair-filler. V. Matthaus. No. 966,110; Aug. 2; Sp. p. 564; Gaz. vol. 157; p. 91.
Hair-frame. C. H. Bond, Jr. No. 953,587; Mar. 29; Sp. p. 6477; Gaz. vol. 152; p. 1158.
Hair-grinding machine. C. P. Bossert. No. 957,729; May 10; Sp. p. 2603; Gaz. vol. 154; p. 450.
Hair-holder. C. A. Brannen. No. 971,519; Oct. 4; Sp. p. 17; Gaz. vol. 159; p. 5.
Hair ornamenting or holding device. J. McArthur. No. 952,926; Mar. 22; Sp. p. 5043; Gaz. vol. 152; p. 906.
Hair-pin. H. Morris. No. 969,178; Sept. 6; Sp. p. 75; Gaz. vol. 158; p. 13.
Hair-pin. L. T. Harkness. No. 971,994; Oct. 4; Sp. p. 1074; Gaz. vol. 159; p. 180.
Hair-pin. C. C. Clark. No. 973,404; Oct. 18; Sp. p. 4177; Gaz. vol. 159; p. 711.
Hair-pin. L. C. Belz. No. 975,390; Nov. 15; Sp. p. 2956; Gaz. vol. 160; p. 501.
Hair-pin. A. Burke. No. 979,422; Dec. 27; Sp. p. 4323; Gaz. vol. 161; p. 767.
Hair-pin box. B. E. Sawyer. No. 955,914; Apr. 26; Sp. p. 4825; Gaz. vol. 153; p. 854.
Hair puff and means for supporting the same. M. Close. No. 968,514; Aug. 23; Sp. p. 5694; Gaz. vol. 157; p. 980.
Hair-roll with comb-band attachment. E. A. Stacy. No. 961,323; June 14; Sp. p. 2241; Gaz. vol. 155; p. 395.
Hair-singeing device, Electrical. E. A. Roberts and N. L. Johnson. No. 975,073; Nov. 8; Sp. p. 2256; Gaz. vol. 160; p. 367.
Hair-spring gage. G. W. Bowers. No. 945,441; Jan. 4; Sp. p. 936; Gaz. vol. 150; p. 147.
Hair, Teasing or picking curled. P. Woll, Jr. No. 952,857; Mar. 22; Sp. p. 4909; Gaz. vol. 152; p. 884.
Hair-tonic. C. Beyer. No. 946,633; Jan. 18; Sp. p. 3629; Gaz. vol. 150; p. 609.
Hair-tonic, Vegetable. J. G. Burgess. No. 961,840; June 21; Sp. p. 3320; Gaz. vol. 155; p. 591.
Hair-waver. A. H. Bowers. No. 951,798; Mar. 15; Sp. p. 2723; Gaz. vol. 152; p. 497.
Hair-waver. A. Keroff. No. 955,271; Apr. 19; Sp. p. 3402; Gaz. vol. 153; p. 605.
Hair-waving. P. E. Herrmann. No. 949,272; Feb. 15; Sp. p. 3128; Gaz. vol. 151; p. 552.
Hair-waving apparatus. P. E. Herrmann. No. 959,527; May 31; Sp. p. 6719; Gaz. vol. 154; p. 1144.
Hair-waving machine. R. Bové. No. 979,058; Dec. 20; Sp. p. 3538; Gaz. vol. 161; p. 619.
Haloids, Making. J. C. Graves and J. P. Simons. No. 964,156; July 12; Sp. p. 2476; Gaz. vol. 156; p. 406.
Halter. F. H. Varney. No. 964,947; July 19; Sp. p. 4238; Gaz. vol. 156; p. 708.
Halter-tie. W. J. Ruttan. No. 948,828; Feb. 8; Sp. p. 2229; Gaz. vol. 151; p. 377.
Halter-tie. O. P. Marth. No. 951,691; Mar. 8; Sp. p. 2481; Gaz. vol. 152; p. 431.
Ham and sausage tying machine. G. Hoefer and G. A. Strohhaecker. No. 966,746; Aug. 9; Sp. p. 1970; Gaz. vol. 157; p. 331.
Hame and trace connector. W. A. Schleicher. No. 967,570; Aug. 16; Sp. p. 3701; Gaz. vol. 157; p. 637.
Hame and trace connector. B. M. Wilhite and L. Oberwetter. No. 977,914; Dec. 6; Sp. p. 1071; Gaz. vol. 161; p. 170.
Hame attachment. A. M. Capron. No. 960,272; June 7; Sp. p. 65; Gaz. vol. 155; p. 14.
Hame-clip. H. W. Hagman. No. 965,106; July 19; Sp. p. 4556; Gaz. vol. 156; p. 760.
Hame-clip. H. M. Dingsley. No. 968,838; Aug. 30; Sp. p. 6404; Gaz. vol. 157; p. 1117.
Hame draft-link. J. D. Brainard. No. 973,338; Oct. 18; Sp. p. 4026; Gaz. vol. 159; p. 689.
Hame-fastener. E. J. Jones. No. 958,253; May 17; Sp. p. 3924; Gaz. vol. 154; p. 660.
Hame-fastener. R. D. Simpson. No. 960,423; June 7; Sp. p. 375; Gaz. vol. 155; p. 63.
Hame-fastener. W. M. Caswell and J. A. Schofield. No. 961,935; June 21; Sp. p. 3521; Gaz. vol. 155; p. 622.
Hame-fastener. C. S. Waybright. No. 976,414; Nov. 22; Sp. p. 5166; Gaz. vol. 160; p. 877.
Hame-hook. W. J. Mierly. No. 946,763; Jan. 18; Sp. p. 3912; Gaz. vol. 150; p. 652.
Hame-hook. J. Q. Ormsby. No. 955,427; Apr. 19; Sp. p. 3740; Gaz. vol. 153; p. 657.
Hame-ring. B. Hanlon. No. 977,733; Dec. 6; Sp. p. 692; Gaz. vol. 161; p. 108.
Hames-fastening device. J. W. Gonce. No. 955,152; Apr. 19; Sp. p. 3141; Gaz. vol. 153; p. 564.
Hammer. E. A. Keeler. No. 945,957; Jan. 11; Sp. p. 2125; Gaz. vol. 150; p. 353.
Hammer. H. Malsch. No. 955,524; Apr. 19; Sp. p. 3940; Gaz. vol. 153; p. 691.
Hammer. W. L. Blake. No. 974,021; Oct. 25; Sp. p. 5471; Gaz. vol. 159; p. 948.
Hammer and puller, Tack. S. L. Young. No. 957,924; May 17; Sp. p. 3040; Gaz. vol. 154; p. 545.
Hammer attachment, Pneumatic. C. McSherry. No. 963,924; July 12; Sp. p. 1994; Gaz. vol. 156; p. 328.
Hammer, Boiler-riveting. A. M. Morrison. No. 969,553; Sept. 6; Sp. p. 869; Gaz. vol. 158; p. 136.
Hammer, Bush-. J. H. Sweetland. No. 946,286; Jan. 11; Sp. p. 2804; Gaz. vol. 150; p. 467.
Hammer-drill. A. H. Taylor. No. 968,891; Aug. 30; Sp. p. 6516; Gaz. vol. 157; p. 1135.
Hammer-drill. A. H. Taylor. No. 968,892; Aug. 30; Sp. p. 6520; Gaz. vol. 157; p. 1135.
Hammer-drill. A. H. Taylor. No. 971,223; Sept. 27; Sp. p. 4445; Gaz. vol. 158; p. 779.
Hammer-drill. W. Prellwitz. No. 975,891; Nov. 15; Sp. p. 3992; Gaz. vol. 160; p. 673.
Hammer-drill. A. H. Taylor. No. 975,905; Nov. 15; Sp. p. 4020; Gaz. vol. 160; p. 678.
Hammer-drills, Valve for. V. J. O'Brien. No. 962,717; June 28; Sp. p. 5244; Gaz. vol. 155; p. 915.
Hammer, Drop-. O. Werner. No. 947,657; Jan. 25; Sp. p. 5914; Gaz. vol. 150; p. 982.
Hammer, Drop-. B. and J. Brett. No. 975,206; Nov. 8; Sp. p. 2572; Gaz. vol. 160; p. 414.
Hammer, Electric. C. C. Lutes. No. 955,522; Apr. 19; Sp. p. 3937; Gaz. vol. 153; p. 691.
Hammer, Electric. B. M. Dutton. No. 962,499; June 28; Sp. p. 4772; Gaz. vol. 155; p. 841.
Hammer, Electrically-operated. L. Paulero. No. 946,267; Jan. 11; Sp. p. 2768; Gaz. vol. 150; p. 460.
Hammer, Farrier's nail-driving. W. J. Kelly. No. 965,716; July 26; Sp. p. 5880; Gaz. vol. 156; p. 999.
Hammer for tinsmiths, &c. J. O. Charpentier. No. 958,595; May 17; Sp. p. 4746; Gaz. vol. 154; p. 779.
Hammer or the like. F. Baldwin. No. 960,147; May 31; Sp. p. 8062; Gaz. vol. 154; p. 1355.
Hammer, Pneumatic. C. L. Jones. No. 946,368; Jan. 11; Sp. p. 3074; Gaz. vol. 150; p. 494.
Hammer, Pneumatic. M. Maximilian. No. 952,707; Mar. 22; Sp. p. 4585; Gaz. vol. 152; p. 832.
Hammer, Pneumatic. E. W. Raikes. No. 955,686; Apr. 19; Sp. p. 4317; Gaz. vol. 153; p. 746.

Alphabetical list of inventions—Continued.

Hammer, Pneumatic. J. E. Burtle. No. 968,236; Aug. 23; Sp. p. 5125; Gaz. vol. 157; p. 883.
Hammer, Pneumatic. F. A. Otto. No. 973,378; Oct. 18; Sp. p. 4120; Gaz. vol. 159; p. 702.
Hammer, Power-. C. Jackson. No. 952,255; Mar. 15; Sp. p. 3607; Gaz. vol. 152; p. 649.
Hammer, Power-. F. E. Sutherland. No. 953,768; Apr. 5; Sp. p. 171; Gaz. vol. 153; p. 32.
Hammer, Power-. W. H. Welch. No. 955,623; Apr. 19; Sp. p. 4163; Gaz. vol. 153; p. 725.
Hammer, Power-. A. Beaudry. No. 960,785; June 7; Sp. p. 1104; Gaz. vol. 155; p. 185.
Hammer, Power-. H. Alinder. No. 966,412; Aug. 9; Sp. p. 1182; Gaz. vol. 157; p. 215.
Hammer, Power-. J. A. Brown and F. E. Sutherland. No. 973,620; Oct. 25; Sp. p. 4636; Gaz. vol. 159; p. 806.
Hammer, Power-. C. R. Embry. No. 977,082; Nov. 29; Sp. p. 6638; Gaz. vol. 160; p. 1131.
Hammer, Power-. A. Malaurie. No. 979,522; Dec. 27; Sp. p. 4537; Gaz. vol. 161; p. 800.
Hammer, Power-operated. R. F. Arnott. No. 961,384; June 14; Sp. p. 2350; Gaz. vol. 155; p. 415.
Hammer, Revolving. W. Boyd. No. 956,515; May 3; Sp. p. 17; Gaz. vol. 154; p. 6.
Hammer, Steam-. F. G. Gasche. No. 960,891; June 7; Sp. p. 1311; Gaz. vol. 155; p. 220.
Hammer, Steam-. W. J. Hagman. No. 972,368; Oct. 11; Sp. p. 1848; Gaz. vol. 159; p. 324.
Hammer-strap. R. H. Lemmon. No. 947,109; Jan. 18; Sp. p. 4655; Gaz. vol. 150; p. 768.
Hammer support, Pneumatic-. H. M. Jacobs. No. 955,166; Apr. 19; Sp. p. 3166; Gaz. vol. 153; p. 569.
Hammer support, Pneumatic-. H. Neville. No. 958,669; May 17; Sp. p. 4888; Gaz. vol. 154; p. 803.
Hammer tools, Rotation device for fluid-pressure-operated-. A. H. Taylor. No. 951,465; Mar. 8; Sp. p. 2051; Gaz. vol. 152; p. 355.
Hammers, Nail-holder for. H. Schneider. No. 957,108; May 3; Sp. p. 1299; Gaz. vol. 154; p. 207.
Hammers, Tool-holder for pneumatic. V. E. Lane. No. 951,013; Mar. 1; Sp. p. 1130; Gaz. vol. 152; p. 183.
Hammers, Valve-gear for power-. J. Hamilton. No. 974,264; Nov. 1; Sp. p. 413; Gaz. vol. 160; p. 61.
Hammock. I. E. Palmer. No. 952,994; Mar. 22; Sp. p. 5168; Gaz. vol. 152; p. 928.
Hammock. D. Row. No. 971,688; Oct. 4; Sp. p. 370; Gaz. vol. 159; p. 65.
Hammock, Adjustable couch-. I. E. Palmer. No. 972,711; Oct. 11; Sp. p. 2609; Gaz. vol. 159; p. 444.
Hammock and stretcher or spreader therefor. I. E. Palmer. No. 964,452; July 12; Sp. p. 3064; Gaz. vol. 156; p. 503.
Hammock and tent, Portable combination. E. B. Meredith. No. 967,949; Aug. 23; Sp. p. 4464; Gaz. vol. 157; p. 785.
Hammock, Baby-. W. H. Connery. No. 954,421; Apr. 12; Sp. p. 1534; Gaz. vol. 153; p. 282.
Hammock, Baby-. I. E. Palmer. No. 962,092; June 21; Sp. p. 3866; Gaz. vol. 155; p. 676.
Hammock, Bed-. C. B. Eaton. No. 960,078; May 31; Sp. p. 7936; Gaz. vol. 154; p. 1332.
Hammock-bottom. A. T. Hallock. No. 979,158; Dec. 20; Sp. p. 3795; Gaz. vol. 161; p. 657.
Hammock-canopy, Folding. E. R. Norwood. No. 955,281; Apr. 19; Sp. p. 3417; Gaz. vol. 153; p. 608.
Hammock, Couch-. I. E. Palmer. No. 980,168; Dec. 27; Sp. p. 5975; Gaz. vol. 161; p. 1019.
Hammock, Couch-. I. E. Palmer. No. 980,169; Dec. 27; Sp. p. 5976; Gaz. vol. 161; p. 1019.
Hammock device. E. A. Wilkes. No. 951,894; Mar. 15; Sp. p. 2927; Gaz. vol. 152; p. 529.
Hammock, Framed. I. E. Palmer. No. 980,165; Dec. 27; Sp. p. 5961; Gaz. vol. 161; p. 1017.
Hammock, Framed or couch. I. E. Palmer. No. 955,826; Apr. 19; Sp. p. 4598; Gaz. vol. 153; p. 794.
Hammock, Hanging-seat. I. E. Palmer. No. 980,166; Dec. 27; Sp. p. 5965; Gaz. vol. 161; p. 1018.
Hammock-hook. F. R. Eldridge. No. 976,253; Nov. 22; Sp. p. 4808; Gaz. vol. 160; p. 822.
Hammock, Knockdown couch-. I. E. Palmer. No. 970,388; Sept. 13; Sp. p. 2642; Gaz. vol. 158; p. 446.
Hammock, Knockdown couch-. I. E. Palmer. No. 980,167; Dec. 27; Sp. p. 5968; Gaz. vol. 161; p. 1018.
Hammock, Settee-. H. L. Hohlfeld. No. 947,546; Jan. 25; Sp. p. 5681; Gaz. vol. 150; p. 943.
Hammock-stand. R. C. Funke. No. 950,070; Feb. 22; Sp. p. 4874; Gaz. vol. 151; p. 857.
Hammock-support. G. W. Bent. No. 952,228; Mar. 15; Sp. p. 3563; Gaz. vol. 152; p. 640.
Hammock-support. L. I. Berkowitz. No. 961,400; June 14; Sp. p. 2371; Gaz. vol. 155; p. 419.
Hammock-support. O. P. Ward. No. 962,181; June 21; Sp. p. 4083; Gaz. vol. 155; p. 709.
Hammock-support. I. E. Palmer. No. 962,521; June 28; Sp. p. 4822; Gaz. vol. 155; p. 848.
Hammock-support, Folding. H. Price. No. 970,549; Sept. 20; Sp. p. 3001; Gaz. vol. 158; p. 522.
Hammock suspension means. I. E. Palmer. No. 980,170; Dec. 27; Sp. p. 5980; Gaz. vol. 161; p. 1019.
Hammock suspension means, Couch-. I. E. Palmer. No. 980,171; Dec. 27; Sp. p. 5982; Gaz. vol. 161; p. 1019.
Hammocks, Canopy attachment for. C. S. Huffman. No. 969,956; Sept. 13; Sp. p. 1749; Gaz. vol. 158; p. 300.
Hammocks, Foldable stand for canopy-. C. A. Berger. No. 957,644; May 10; Sp. p. 2430; Gaz. vol. 154; p. 420.
Hammocks, Head and shoulder rest or support for couch and other. I. E. Palmer. No. 972,712; Oct. 11; Sp. p. 2614; Gaz. vol. 159; p. 444.
Hammocks, &c., Head and shoulder support for couch-. I. E. Palmer. No. 972,713; Oct. 11; Sp. p. 2619; Gaz. vol. 159; p. 445.
Hammocks or other structures, Seating for couch-. I. E. Palmer. No. 961,004; June 7; Sp. p. 1540; Gaz. vol. 155; p. 258.
Hammocks, &c., Resilient bottom for couch-. I. E. Palmer. No. 955,351; Apr. 19; Sp. p. 3574; Gaz. vol. 153; p. 632.
Hammocks, &c., Resilient bottom for couch-. I. E. Palmer. No. 955,352; Apr. 19; Sp. p. 3576; Gaz. vol. 153; p. 632.
Hammocks, Spring-support for. A. F. Sanborn, Jr. No. 965,838; July 26; Sp. p. 6141; Gaz. vol. 156; p. 1041.
Hammocks, Spring-support for. A. F. Sanborn, Jr. No. 965,839; July 26; Sp. p. 6143; Gaz. vol. 156; p. 1041.
Hand-bag. J. Erstling. No. 948,165; Feb. 1; Sp. p. 787; Gaz. vol. 151; p. 130.
Hand-bag. B. Ross. No. 977,902; Dec. 6; Sp. p. 1049; Gaz. vol. 161; p. 166.
Hand-bag. C. Hollis. No. 979,763; Dec. 27; Sp. p. 5078; Gaz. vol. 161; p. 884.
Hand-clamp or vise. F. H. Kelley. No. 947,915; Feb. 1; Sp. p. 283; Gaz. vol. 151; p. 47.
Hand-drill. F. P. Shek. No. 949,965; Feb. 22; Sp. p. 4600; Gaz. vol. 151; p. 821.
Hand-drill. F. P. Shek. No. 965,337; July 26; Sp. p. 5054; Gaz. vol. 156; p. 869.
Hand or tool-holding attachment for amputated arms, Artificial. D. W. Dorrance. No. 953,821; Apr. 5; Sp. p. 282; Gaz. vol. 153; p. 50.
Hand-rail support, Porch-. T. Hulett. No. 949,075; Feb. 15; Sp. p. 2728; Gaz. vol. 151; p. 485.
Hand-rake. O. Kampfe. No. 975,871; Nov. 15; Sp. p. 3952; Gaz. vol. 160; p. 666.
Hand-shield. L. B. Tebeau. No. 975,734; Nov. 15; Sp. p. 3677; Gaz. vol. 160; p. 619.
Hand-strap. R. L. Douglass. No. 954,723; Apr. 12; Sp. p. 2221; Gaz. vol. 153; p. 385.
Handcuff. G. Caveney. No. 948,310; Feb. 8; Sp. p. 1108; Gaz. vol. 151; p. 203.
Handkerchiefs and like articles, Machine for folding. R. Cunningham. No. 970,424; Sept. 13; Sp. p. 2709; Gaz. vol. 158; p. 457.
Handle: *See* Auger-handle; Broom-handle; Brush-handle; Bucket-handle; Can-handle; Casket-handle; Controller-handle; Cooking-utensil handle; Door-handle; Drawer-handle; Drill-handle; Faucet-handle; File-handle; Fish-pole-handle; Fork-handle; Implement-handle; Initial-handle; Insulated handle; Kitchen-utensil handle; Massage-apparatus handle; Pan-handle; Parcel-handle; Pot-handle; Pump-handle; Roller and like handle; Sad-iron handle; Saw-handle; Shovel and like tool handle; Switch-handle; Telephone-receiver handle; Tool-handle; Tool throttle-handle; Valve-handle; Whip-handle; Wrench-handle.
Handle. J. T. Hammond. No. 958,114; May 17; Sp. p. 3636; Gaz. vol. 154; p. 613.
Handle. G. Lemieux. No. 959,235; May 24; Sp. p. 6112; Gaz. vol. 154; p. 1021.
Handle. S. K. Williams. No. 966,974; Aug. 9; Sp. p. 2460; Gaz. vol. 157; p. 405.
Handle. L. J. Allison. No. 968,440; Aug. 23; Sp. p. 5532; Gaz. vol. 157; p. 954.
Handle. E. C. Blackburn and J. Michal, Jr. No. 978,816; Dec. 13; Sp. p. 2996; Gaz. vol. 161; p. 508.
Handle attachment. H. J. Mulder. No. 946,976; Jan. 18; Sp. p. 4410; Gaz. vol. 150; p. 725.
Handle fastening, Implement-. S. T. Bagnall. No. 967,703; Aug. 16; Sp. p. 3960; Gaz. vol. 157; p. 679.
Handle-making machine. M. Kamenstein. No. 970,059; Sept. 13; Sp. p. 1983; Gaz. vol. 158; p. 336.
Handle-shaping machine. C. Fletcher. No. 955,639; Apr. 19; Sp. p. 4203; Gaz. vol. 153; p. 730.
Handling articles, Machine for. L. M. Parkhurst. No. 963,245; July 5; Sp. p. 565; Gaz. vol. 156; p. 78.
Handling mechanism, Material-. H. Zimmerman. No. 973,331; Oct. 18; Sp. p. 4009; Gaz. vol. 159; p. 685.
Handsaw blower and hanger. T. Herbig. No. 966,202; Aug. 2; Sp. p. 776; Gaz. vol. 157; p. 123.
Handsaw, Circular. N. Nickens. No. 966,045; Aug. 2; Sp. p. 438; Gaz. vol. 157; p. 70.
Handsaw, Power-operated. W. H. Henderson. No. 976,801; Nov. 22; Sp. p. 5974; Gaz. vol. 160; p. 1009.
Handwriting, Device for mechanical aid for. W. S. Twichell. No. 963,835; July 12; Sp. p. 1821; Gaz. vol. 156; p. 299.

Hanger: *See* Apparel-hanger; Barrel-hanger; Boiler-hanger; Brake-hanger; Brake-beam hanger; Broom-hanger; Button-hook hanger; Cable-hanger; Car-door hanger; Clothes-hanger; Clothes-line hanger; Coat-hanger; Coat and pants hanger; Coat and trousers hanger; Corn-hanger; Curtain-hanger; Curtain and shade hanger; Door-hanger; Door and gate hanger; Eaves-trough hanger; Electric-conductor hanger; Electric-light hanger; Electrical-conductor hanger; Frame-hanger; Garment-hanger; Gas-hanger; Gutter-hanger; Harness-hanger; Hat-hanger; Hat and coat hanger; Insulated hanger; Insulating-hanger; Lamp-hanger; Lighting-fixture hanger; Meat-hanger; Picture-hanger; Pipe-hanger; Propeller-shaft hanger; Radiator-hanger; Rail-hanger; Sash-hanger; Shade-hanger; Shade and curtain hanger; Shaft-hanger; Shock-absorber hanger; Skirt-hanger; Skirt and trousers hanger; Spout-hanger; Strap-hanger; Suit-hanger; Telephone-wire hanger; Tool-hanger; Trolley-hanger; Trolley-wire hanger; Trousers-hanger; Upper-hanger; Weight-hanger; Whiffletree-hanger; Window or screen hanger.
Hanger. F. L. R. Francisco. No. 972,525; Oct. 11; Sp. p. 2205; Gaz. vol. 159; p. 380.
Hanger. L. Roehm. No. 974,524; Nov. 1; Sp. p. 1033; Gaz. vol. 160; p. 154.
Hanger-arm. H. Laughlin, Jr., and D. Schuyler. No. 955,599; Apr. 19; Sp. p. 4118; Gaz. vol. 153; p. 716.
Hanger-board switch. H. L. Smith. No. 959,891; May 31; Sp. p. 7496; Gaz. vol. 154; p. 1266.
Harness. J. A. Cummings. No. 964,618; July 19; Sp. p. 3473; Gaz. vol. 156; p. 594.
Harness. M. I. Magoon. No. 965,918; Aug. 2; Sp. p. 149; Gaz. vol. 157; p. 25.
Harness. W. D. Beidelman. No. 969,328; Sept. 6; Sp. p. 373; Gaz. vol. 158; p. 61.
Harness. J. O. Adams. No. 971,426; Sept. 27; Sp. p. 4816; Gaz. vol. 158; p. 843.
Harness. T. S. Moffett. No. 972,897; Oct. 18; Sp. p. 3048; Gaz. vol. 159; p. 536.
Harness and heddle-frames, Hook attachment for. L. Robidoux. No. 961,463; June 14; Sp. p. 2510; Gaz. vol. 155; p. 442.
Harness attachment. C. J. Johnson. No. 961,967; June 21; Sp. p. 3601; Gaz. vol. 155; p. 633.
Harness attachment. J. W. Van Every. No. 963,962; July 12; Sp. p. 2076; Gaz. vol. 156; p. 339.
Harness attachment. E. Cowan. No. 970,310; Sept. 13; Sp. p. 2497; Gaz. vol. 158; p. 421.
Harness attachment. C. C. Rose. No. 971,644; Oct. 4; Sp. p. 281; Gaz. vol. 159; p. 50.
Harness attachment. F. G. Black. No. 976,719; Nov. 22; Sp. p. 5791; Gaz. vol. 160; p. 980.
Harness attachment. E. A. Gamble. No. 979,067; Dec. 20; Sp. p. 3555; Gaz. vol. 161; p. 622.
Harness back-pad and collar-pad. L. P. Overshiner. No. 959,381; May 24; Sp. p. 6399; Gaz. vol. 154; p. 1070.
Harness blind-fastener. T. J. Steen. No. 970,761; Sept. 20; Sp. p. 3483; Gaz. vol. 158; p. 596.
Harness, Casting-. I. Pasley. No. 957,517; May 10; Sp. p. 2179; Gaz. vol. 154; p. 376.
Harness, Draft-. T. W. Schlater. No. 970,119; Sept. 13; Sp. p. 2091; Gaz. vol. 158; p. 356.
Harness draft attachment. W. W. Woodfill. No. 970,590; Sept. 20; Sp. p. 3077; Gaz. vol. 158; p. 536.
Harness-fastener. J. D. Ellison. No. 966,322; Aug. 2; Sp. p. 995; Gaz. vol. 157; p. 160.
Harness for controlling animals. A. Byrd and C. R. Treadway. No. 962,890; June 28; Sp. p. 5584; Gaz. vol. 155; p. 976.
Harness-hames. J. Compton. No. 954,499; Apr. 12; Sp. p. 1720; Gaz. vol. 153; p. 309.
Harness-hanger. J. W. Stake. No. 955,710; Apr. 19; Sp. p. 4370; Gaz. vol. 153; p. 755.
Harness-loop. J. D. Padgitt. No. 967,965; Aug. 23; Sp. p. 4502; Gaz. vol. 157; p. 791.
Harness-pads, Machine for manufacturing. C. H. Grings. No. 959,519; May 31; Sp. p. 6705; Gaz. vol. 154; p. 1141.
Harness-shield. A. B. Harrell. No. 957,771; May 10; Sp. p. 2693; Gaz. vol. 154; p. 463.
Harness, Single. F. Sidey. No. 978,069; Dec. 6; Sp. p. 1390; Gaz. vol. 161; p. 223.
Harness-spreader. C. H. Anderson. No. 955,741; Apr. 19; Sp. p. 4436; Gaz. vol. 153; p. 765.
Harness-support. W. W. Dieleman. No. 945,762; Jan. 11; Sp. p. 1681; Gaz. vol. 150; p. 282.
Harpooning device. S. Coleman. No. 970,018; Sept. 13; Sp. p. 1898; Gaz. vol. 158; p. 322.
Harrow. A. M. Hauck. No. 948,276; Feb. 1; Sp. p. 1012; Gaz. vol. 151; p. 166.
Harrow. J. H. Peden. No. 948,769; Feb. 8; Sp. p. 2111; Gaz. vol. 151; p. 358.
Harrow. C. E. White. No. 951,227; Mar. 8; Sp. p. 1538; Gaz. vol. 152; p. 277.
Harrow. J. Wilding. No. 951,297; Mar. 8; Sp. p. 1691; Gaz. vol. 152; p. 299.
Harrow. C. E. White. No. 951,924; Mar. 15; Sp. p. 2990; Gaz. vol. 152; p. 541.
Harrow. O. Bolang. No. 952,502; Mar. 22; Sp. p. 4126; Gaz. vol. 152; p. 760.
Harrow. L. Marsilii. No. 953,278; Mar. 29; Sp. p. 5808; Gaz. vol. 152; p. 1050.
Harrow. J. R. Naylor. No. 954,759; Apr. 12; Sp. p. 2311; Gaz. vol. 153; p. 400.
Harrow. C. G. Johnerson. No. 955,515; Apr. 19; Sp. p. 3926; Gaz. vol. 153; p. 689.
Harrow. F. C. Warne and A. B. McLean. No. 958,200; May 17; Sp. p. 3809; Gaz. vol. 154; p. 644.
Harrow. W. D. Walton. No. 959,276; May 24; Sp. p. 6193; Gaz. vol. 154; p. 1035.
Harrow. C. B. Rozar. No. 960,200; May 31; Sp. p. 8163; Gaz. vol. 154; p. 1373.
Harrow. A. C. Lindgren. No. 965,390; July 26; Sp. p. 5158; Gaz. vol. 156; p. 885.
Harrow. G. B. Canada. No. 965,686; July 26; Sp. p. 5821; Gaz. vol. 156; p. 989.
Harrow. D. Polley. No. 970,747; Sept. 20; Sp. p. 3452; Gaz. vol. 158; p. 590.
Harrow. W. J. Snow. No. 970,964; Sept. 20; Sp. p. 3885; Gaz. vol. 158; p. 664.
Harrow. H. A. Wetmore. No. 971,425; Sept. 27; Sp. p. 4814; Gaz. vol. 158; p. 843.
Harrow. J. E. Booth. No. 971,591; Oct. 4; Sp. p. 175; Gaz. vol. 159; p. 32.
Harrow. H. A. Campbell. No. 972,057; Oct. 4; Sp. p 1190; Gaz. vol. 159; p. 201.
Harrow. B. A. Wandersee. No. 973,730; Oct. 25; Sp. p. 4871; Gaz. vol. 159; p. 846.
Harrow. M. P. Neff. No. 973,805; Oct. 25; Sp. p. 5016; Gaz. vol. 159; p. 872.
Harrow. W. M. Roberts. No. 973,975; Oct. 25; Sp. p. 5356; Gaz. vol. 159; p. 932.
Harrow. D. L. Powers. No. 974,427; Nov. 1; Sp. p. 788; Gaz. vol. 160; p. 118.
Harrow. T. J. McWilliams. No. 976,387; Nov. 22; Sp. p. 5109; Gaz. vol. 160; p. 867.
Harrow. R. D. Whitt. No. 978,804; Dec. 13; Sp. p. 2977; Gaz. vol. 161; p. 504.
Harrow. A. S. Kindel. No. 979,312; Dec. 20; Sp. p. 4111; Gaz. vol. 161; p. 708.
Harrow, Adjustable cultivating-. W. S. Morgan. No. 957,701; May 10; Sp. p. 2546; Gaz. vol. 154; p. 440.
Harrow adjustment, Disk-. R. H. McCaughey. No. 952,341; Mar. 15; Sp. p. 3793; Gaz. vol. 152; p. 678.
Harrow and clod-crusher. D. Duhl. No. 978,714; Dec. 13; Sp. p. 2816; Gaz. vol. 161; p. 478.
Harrow and digger. S. Larson. No. 965,200; July 26; Sp. p. 4746; Gaz. vol. 156; p. 821.
Harrow and land-roller, Combined disk. J. Moore. No. 963,618; July 5; Sp. p. 1318; Gaz. vol. 156; p. 203.
Harrow attachment. J. W. Karr and B. F. Potter. No. 946,676; Jan. 18; Sp. p. 3718; Gaz. vol. 150; p. 622.
Harrow attachment. O. H. Chartier. No. 968,834; Aug. 30; Sp. p. 6398; Gaz. vol. 157; p. 1115.
Harrow attachment. J. H. Sherard. No. 978,665; Dec. 13; Sp. p. 2712; Gaz. vol. 161; p. 462.
Harrow, Blade-. C. L. Wall. No. 963,670; July 5; Sp. p. 1409; Gaz. vol. 156; p. 220.
Harrow-cleaning attachment. A. J. Olson. No. 962,579; June 28; Sp. p. 4958; Gaz. vol. 155; p. 808.
Harrow, Combination-. J. L. Buckingham. No. 962,742; June 28; Sp. p. 5292; Gaz. vol. 155; p. 924.
Harrow, Cylinder-. N. W. Satterlund. No. 966,128; Aug. 2; Sp. p. 594; Gaz. vol. 157; p. 98.
Harrow, Disk. R. Ewing. No. 961,113; June 14; Sp. p. 1764; Gaz. vol. 155; p. 320.
Harrow, Disk. F. B. Niesz. (Reissue.) No. 13,163; Nov. 1; Sp. p. 1569; Gaz. vol. 160; p. 242.
Harrow, Disk. W. C. King. No. 977,099; Nov. 29; Sp. p. 6681; Gaz. vol. 160; p. 1137.
Harrow, Disk. J. J. McLean. No. 979,782; Dec. 27; Sp. p. 5117; Gaz. vol. 161; p. 890.
Harrow draft-bar. S. A. D. McGovern. No. 952,210; Mar. 15; Sp. p. 3523; Gaz. vol. 152; p. 634.
Harrow, Drag-. A. D. Imrie. No. 952,251; Mar. 15; Sp. p. 3601; Gaz. vol. 152; p. 648.
Harrow, drag, and pulverizer. W. B. Mitchell. No. 953,792; Apr. 5; Sp. p. 217; Gaz. vol. 153; p. 40.
Harrow draw-bar. F. F. Adix. No. 950,421; Feb. 22; Sp. p. 5569; Gaz. vol. 151; p. 976.
Harrow draw-bar, Hinged. P. A. Stuerman. No. 973,316; Oct. 18; Sp. p. 3979; Gaz. vol. 159; p. 680.
Harrow, Flexible. J. Brower. No. 965,796; July 26; Sp. p. 6055; Gaz. vol. 156; p. 1026.
Harrow guard, Disk-. G. R. Allison. No. 971,874; Oct. 4; Sp. p. 774; Gaz. vol. 159; p. 134.
Harrow, Lever-. H. Hecht. No. 970,921; Sept. 20; Sp. p. 3808; Gaz. vol. 158; p. 650.
Harrow, plow, and hoe, Combination. M. B. Haywood. No. 968,475; Aug. 23; Sp. p. 5600; Gaz. vol. 157; p. 967.
Harrow, Revolving. L. E. Waterman. No. 967,092; Aug. 9; Sp. p. 2709; Gaz. vol. 157; p. 445.
Harrow, Riding-. O. Goodale. No. 946,031; Jan. 11; Sp. p. 2265; Gaz. vol. 150; p. 377.
Harrow, Rotary. F. Hanson. No. 967,189; Aug. 16; Sp. p. 2930; Gaz. vol. 157; p. 506.
Harrow, Rotary. W. H. Keen. No. 968,164; Aug. 23; Sp. p. 4973; Gaz. vol. 157; p. 858.
Harrow, Rotary. S. Schäller. No. 971,218; Sept. 27; Sp. p. 4433; Gaz. vol. 158; p. 777.

Alphabetical list of inventions—Continued.

Harrow, Rotary. P. N. Moun. No. 974,808; Nov. 8; Sp. p. 1650; Gaz. vol. 160; p. 276.
Harrow, Rotary. J. T. Cunningham. No. 976,439; Nov. 22; Sp. p. 5224; Gaz. vol. 160; p. 886.
Harrow, Scratch-. E. Mahone. No. 952,124; Mar. 15; Sp. p. 3363; Gaz. vol. 152; p. 605.
Harrow-tooth, Adjustable. A. Brigden. No. 964,384; July 12; Sp. p. 2923; Gaz. vol. 156; p. 482.
Harrow-tooth and tooth-bar fastening. G. E. Blaine. No. 978,687; Dec. 13; Sp. p. 2749; Gaz. vol. 161; p. 468.
Harrow-tooth holder. J. H. Hoard. No. 975,132; Nov. 8; Sp. p. 2393; Gaz. vol. 160; p. 388.
Harrows and the like, Soil-engaging blade for. E. M. Kramer. No. 963,716; July 5; Sp. p. 1513; Gaz. vol. 156; p. 235.
Harrowing of the ground, Mechanism to lift the drags during the. W. von Tecklenburg. No. 953,769; Apr. 5; Sp. p. 175; Gaz. vol. 153; p. 32.
Harvest machine, Potato-. J. O. Thorsen. No. 973,318; Oct. 18; Sp. p. 3982; Gaz. vol. 159; p. 681.
Harvester. F. J. and W. N. Triplett. No. 952,384; Mar. 15; Sp. p. 3865; Gaz. vol. 152; p. 692.
Harvester. S. M. Houck. No. 953,145; Mar. 29; Sp. p. 5523; Gaz. vol. 152; p. 1007.
Harvester. B. Holt. No. 954,394; Apr. 5; Sp. p. 1473; Gaz. vol. 153; p. 245.
Harvester. E. Jeschke. No. 954,438; Apr. 12; Sp. p. 1562; Gaz. vol. 153; p. 287.
Harvester. G. A. Tuttle. No. 955,229; Apr. 19; Sp. p. 3314; Gaz. vol. 153; p. 592.
Harvester. S. Millar. No. 956,127; Apr. 26; Sp. p. 5289; Gaz. vol. 153; p. 929.
Harvester. O. L. Perrigo. No. 960,392; June 7; Sp. p. 321; Gaz. vol. 155; p. 53.
Harvester. A. R. Blewett. No. 960,799; June 7; Sp. p. 1132; Gaz. vol. 155; p. 189.
Harvester. J. Estes. No. 963,128; July 5; Sp. p. 263; Gaz. vol. 156; p. 35.
Harvester. A. N. Hadley. No. 967,904; Aug. 23; Sp. p. 4369; Gaz. vol. 157; p. 771.
Harvester. F. Bossen. No. 969,331; Sept. 6; Sp. p. 376; Gaz. vol. 158; p. 61.
Harvester. A. F. Pando. No. 977,832; Dec. 6; Sp. p. 898; Gaz. vol. 161; p. 141.
Harvester and other comb-machine, Stripper-. R. B. Douglas. No. 971,180; Sept. 27; Sp. p. 4354; Gaz. vol. 158; p. 764.
Harvester attachment. O. O. Clark. No. 974,358; Nov. 1; Sp. p. 644; Gaz. vol. 160; p. 96.
Harvester, Beet-. W. Atwood. No. 945,073; Jan. 4; Sp. p. 141; Gaz. vol. 150; p. 24.
Harvester, Beet-. J. A. King. No. 951,476; Mar. 8; Sp. p. 2067; Gaz. vol. 152; p. 358.
Harvester, Beet-. O. E. Duffey. No. 952,669; Mar. 22; Sp. p. 4506; Gaz. vol. 152; p. 819.
Harvester, Beet-. A. Clark. No. 963,868; July 12; Sp. p. 1892; Gaz. vol. 156; p. 311.
Harvester, Beet-. M. H. Wadhams. No. 975,586; Nov. 15; Sp. p. 3362; Gaz. vol. 160; p. 571.
Harvester, Beet-. J. D. De Celle. No. 978,710; Dec. 13; Sp. p. 2804; Gaz. vol. 161; p. 476.
Harvester butting attachment. F. O. Kullander. No. 961,868; June 21; Sp. p. 3396; Gaz. vol. 155; p. 600.
Harvester, Cane-. M. C. Mollere. No. 976,823; Nov. 22; Sp. p. 6014; Gaz. vol. 160; p. 1016.
Harvester, Combined. B. Holt. No. 952,330; Mar. 15; Sp. p. 3767; Gaz. vol. 152; p. 675.
Harvester, Corn-. F. W. Dill. No. 946,936; Jan. 18; Sp. p. 4331; Gaz. vol. 150; p. 712.
Harvester, Corn-. J. A. Stone. No. 949,736; Feb. 15; Sp. p. 4069; Gaz. vol. 151; p. 706.
Harvester, Corn-. S. M. Houck. No. 949,983; Feb. 22; Sp. p. 4682; Gaz. vol. 151; p. 828.
Harvester, Corn-. C. A. Patton. No. 950,824; Mar. 1; Sp. p. 782; Gaz. vol. 152; p. 124.
Harvester, Corn-. I. L. Dawson. No. 951,366; Mar. 8; Sp. p. 1836; Gaz. vol. 152; p. 322.
Harvester, Corn-. S. M. Houck. No. 952,740; Mar. 22; Sp. p. 4655; Gaz. vol. 152; p. 843.
Harvester, Corn-. F. D. and A. D. Wilson. No. 957,831; May 10; Sp. p. 2806; Gaz. vol. 154; p. 482.
Harvester, Corn-. J. Little. No. 961,455; June 14; Sp. p. 2496; Gaz. vol. 155; p. 439.
Harvester, Corn-. T. O. Thurston. No. 961,660; June 14; Sp. p. 2928; Gaz. vol. 155; p. 507.
Harvester, Corn-. D. B. Raworth. No. 970,266; Sept. 13; Sp. p. 2415; Gaz. vol. 158; p. 407.
Harvester, Corn-. L. E. Parsons. No. 970,945; Sept. 20; Sp. p. 3849; Gaz. vol. 158; p. 657.
Harvester, Corn-. J. Tjossem. No. 974,311; Nov. 1; Sp. p. 527; Gaz. vol. 160; p. 78.
Harvester, Corn-. B. E. Reed. No. 975,797; Nov. 15; Sp. p. 3808; Gaz. vol. 160; p. 641.
Harvester, Corn-. J. Rickel. No. 976,921; Nov. 29; Sp. p. 6262; Gaz. vol. 160; p. 1075.
Harvester, Cotton-. D. H. Mays. No. 946,454; Jan. 11; Sp. p. 3256; Gaz. vol. 150; p. 524.
Harvester, Cotton-. W. T. Comer. No. 948,846; Feb. 8; Sp. p. 2262; Gaz. vol. 151; p. 384.
Harvester, Cotton-. E. Childs. No. 949,260; Feb. 15; Sp. p. 3105; Gaz. vol. 151; p. 548.
Harvester, Cotton-. R. C. Scherling. No. 952,688; Mar. 22; Sp. p. 4545; Gaz. vol. 152; p. 826.
Harvester, Cotton-. O. C. Houghton. No. 955,594; Apr. 19; Sp. p. 4091; Gaz. vol. 153; p. 714.
Harvester, Cotton-. G. C. Elliott. No. 964,958; July 19; Sp. p. 4257; Gaz. vol. 156; p. 712.
Harvester, Cotton-. C. B. Sewell. No. 973,712; Oct. 25; Sp. p. 4835; Gaz. vol. 159; p. 840.
Harvester, Cotton-. R. L. Edwards. No. 975,125; Nov. 8; Sp. p. 2376; Gaz. vol. 160; p. 386.
Harvester, Cotton-. G. Lispenard. No. 975,775; Nov. 15; Sp. p. 3761; Gaz. vol. 160; p. 633.
Harvester, Cotton-. G. Lispenard. No. 976,084; Nov. 15; Sp. p. 4354; Gaz. vol. 160; p. 740.
Harvester, Cotton-. D. D. Miles. No. 976,132; Nov. 15; Sp. p. 4484; Gaz. vol. 160; p. 756.
Harvester, Cotton-. O. C. Houghton. No. 979,859; Dec. 27; Sp. p. 5299; Gaz. vol. 161; p. 917.
Harvester-cutter. N. P. Lithander. No. 957,428; May 10; Sp. p. 2010; Gaz. vol. 154; p. 347.
Harvester-cutter. B. F. Weathern. No. 969,817; Sept. 13; Sp. p. 1465; Gaz. vol. 158; p. 253.
Harvester cutter-bar. G. Bradt. No. 946,005; Jan. 11; Sp. p. 2218; Gaz. vol. 150; p. 368.
Harvester cutter-bar. I. T. Alfred. No. 952,779; Mar. 22; Sp. p. 4757; Gaz. vol. 152; p. 857.
Harvester cutter, Corn-. F. A. R., H. C., and O. L. Fiebach. No. 965,134; July 19; Sp p. 4608; Gaz. vol. 156; p. 768.
Harvester cutter mechanism. L. T. Velen. No. 957,280; May 10; Sp. p. 1698; Gaz. vol. 154; p. 297.
Harvester cutting mechanism, Corn-. L. E. Parsons. No. 958,165; May 17; Sp. p. 3744; Gaz. vol. 154; p. 633.
Harvester-elevator. J. Boda. No. 959,703; May 31; Sp. p. 7079; Gaz. vol. 154; p. 1202.
Harvester for onions and the like. J. W. Linn and T. A. Stubbs. No. 967,139; Aug. 9; Sp. p. 2820; Gaz. vol. 157; p. 462.
Harvester, Grain-. A. Burger and J. Gominsky. No. 955,249; Apr. 19; Sp. p. 3355; Gaz. vol. 153; p. 598.
Harvester, Grain-. D. W. Smith. No. 958,331; May 17; Sp. p. 4232; Gaz. vol. 154; p. 690.
Harvester, Grain-. W. Harlin and S. Westerhausen. No. 963,220; July 5; Sp. p. 496; Gaz. vol. 156; p. 69.
Harvester-headers, Elevator-hood for. T. O. Marston. No. 962,232; June 21; Sp. p. 4171; Gaz. vol. 155; p. 724.
Harvester or like machine, Stripper-. S. H. Tyers. No. 975,003; Nov. 8; Sp. p. 2115; Gaz. vol. 160; p. 344.
Harvester, Pea-. G. E. Pritchard. No. 955,684; Apr. 19; Sp. p. 4311; Gaz. vol. 153; p. 745.
Harvester, Potato-. C. W. Becker. No. 956,272; Apr. 26; Sp. p. 5612; Gaz. vol. 153; p. 979.
Harvester, Potato-. J. P. Brennan. No. 973,852; Oct. 25; Sp. p. 5114; Gaz. vol. 159; p. 888.
Harvester-protector. J. J. Graham. No. 968,935; Aug. 30; Sp. p. 6606; Gaz. vol. 157; p. 1150.
Harvester-reel. J. H. and C. D. Huddle. No. 952,249; Mar. 15; Sp. p. 3597; Gaz. vol. 152; p. 647.
Harvester, Stalk-. J. B. Schuman. No. 951,223; Mar. 8; Sp. p. 1530; Gaz. vol. 152; p. 276.
Harvester, Sugar-cane. H. G. Ginaca. No. 953,265; Mar. 29; Sp. p. 5777; Gaz. vol. 152; p. 1046.
Harvester tedder attachment. J. T. Oliphant and O. Ring. No. 962,662; June 28; Sp. p. 5124; Gaz. vol. 155; p. 895.
Harvester windrow attachment, Beet-. A. Clark. No. 971,254; Sept. 27; Sp. p. 4508; Gaz. vol. 158; p. 788.
Harvesters, Elevator-hood for. E. C. Mottert. No. 957,437; May 10; Sp. p. 2024; Gaz. vol. 154; p. 351.
Harvesters, Excavating mechanism for beet-. H. F. Barber. No. 962,880; June 28; Sp. p. 5566; Gaz. vol. 155; p. 974.
Harvesters, mowing-machines, &c., Cutting mechanism for. J. Hebden. No. 964,252; July 12; Sp. p. 2661; Gaz. vol. 156; p. 438.
Harvesters, Stalk-packer for corn-. W. H. Tilson. No. 951,922; Mar. 15; Sp. p. 2986; Gaz. vol. 152; p. 540.
Harvesting and husking machine, Corn. F. J. Lichty. No. 966,029; Aug. 2; Sp. p. 404; Gaz. vol. 157; p. 64.
Harvesting-bag. J. E. Wood. No. 966,975; Aug. 9; Sp. p. 2461; Gaz. vol. 157; p. 405.
Harvesting device, Broom-corn-. W. W. Jordan. No. 964,522; July 19; Sp. p. 3245; Gaz. vol. 156; p. 559.
Harvesting-machine. J. E. Hail. No. 968,655; Aug. 30; Sp. p. 6013; Gaz. vol. 157; p. 1056.
Harvesting-machine. D. J. Brower. No. 977,266; Nov 29; Sp. p. 7030; Gaz. vol. 160; p. 1196.
Harvesting machine, Beet-. J. E. Nix. No. 956,821; May 3; Sp. p. 704; Gaz. vol. 154; p. 110.
Harvesting machine, Cotton-. H. B. Morris. No. 951,652; Mar. 8; Sp. p. 2414; Gaz. vol. 152; p. 418.
Harvesting-machine cutter. J. H. Wilson. No. 954,009; Apr. 5; Sp. p. 645; Gaz. vol. 153; p. 115.
Harvesting machine, Flax-. J. H. Philipp and C. F. Garaghty. No. 966,470; Aug. 9; Sp. p. 1323; Gaz. vol. 157; p. 236.
Harvesting mechanism, Beet-. H. F. Barber. No. 968,522; Aug. 30; Sp. p. 5722; Gaz. vol. 157; p. 1008.
Hasp. B. F. Brock. No. 949,880; Feb. 22; Sp. p. 4425; Gaz. vol. 151; p. 792.

Hasp. J. H. Lawrence. No. 967,942; Aug. 22; Sp. p. 4455; Gaz. vol. 157; p. 784.
Hasp-lock. A. L. Jervey. No. 955,881; Apr. 26; Sp. p. 4764; Gaz. vol. 153; p. 843.
Hasp-lock. T. Cebulla. No. 967,326; Aug. 16; Sp. p. 3191; Gaz. vol. 157; p. 553.
Hasp or catch, Spring. J. S. Isidor. No. 954,737; Apr. 12; Sp. p. 2256; Gaz. vol. 153; p. 391.
Hat. S. Newman. No. 975,448; Nov. 15; Sp. p. 3057; Gaz. vol. 160; p. 522.
Hat and clothes rack. D. Neuhaus. No. 976,205; Nov. 22; Sp. p. 4662; Gaz. vol. 160; p. 803.
Hat and coat hanger. C. H. Pelton. No. 959,589; May 31; Sp. p. 6851; Gaz. vol. 154; p. 1165.
Hat and coat hanger, Pocket. J. A. Benjamin. No. 965,151; July 26; Sp. p. 4654; Gaz. vol. 156; p. 806.
Hat and hair fastener, Lady's. J. Leithem. No. 974,082; Oct. 25; Sp. p. 5585; Gaz. vol. 159; p. 968.
Hat box or carrier. J. J. Foote. No. 968,842; Aug. 30; Sp. p. 6414; Gaz. vol. 157; p. 1118.
Hat, Braided. F. Thun. No. 967,462; Aug. 16; Sp. p. 3473; Gaz. vol. 157; p. 598.
Hat-brim conformator curling-machine. C. E. Sackett. No. 971,566; Oct. 4; Sp. p. 121; Gaz. vol. 159; p. 23.
Hat-brim edging, setting, and rounding machine. C. E. Sackett. No. 957,519; May 10; Sp. p. 2183; Gaz. vol. 154; p. 377.
Hat-brim matricing and flanging machine. C. E. Sackett. No. 950,244; Feb. 22; Sp. p. 5237; Gaz. vol. 151; p. 918.
Hat-cleaning machine. C. S. Schwarz. No. 958,327; May 17; Sp. p. 4223; Gaz. vol. 154; p. 689.
Hat, coat, and umbrella rack, Locking. F. L. Kinsey. No. 978,033; Dec. 6; Sp. p. 1316; Gaz. vol. 161; p. 210.
Hat-fastener. C. H. Rasmussen. No. 953,156; Mar. 29; Sp. p. 5547; Gaz. vol. 152; p. 1011.
Hat-fastener. R. Daboul. No. 954,078; Apr. 5; Sp. p. 794; Gaz. vol. 153; p. 138.
Hat-fastener. S. Raymond. No. 955,433; Apr. 19; Sp. p. 3750; Gaz. vol. 153; p. 659.
Hat-fastener. L. Metzdorf. No. 955,654; Apr. 19; Sp. p. 4243; Gaz. vol. 153; p. 735.
Hat-fastener. A. Straus. No. 957,810; May 10; Sp. p. 2776; Gaz. vol. 154; p. 476.
Hat-fastener. W. J. Paton. No. 959,586; May 31; Sp. p. 6844; Gaz. vol. 154; p. 1164.
Hat-fastener. L. Brody. No. 959,991; May 31; Sp. p. 7728; Gaz. vol. 154; p. 1302.
Hat-fastener. R. Idone. No. 963,371; July 5; Sp. p. 817; Gaz. vol. 156; p. 120.
Hat-fastener. J. P. Bartos. No. 966,516; Aug. 9; Sp. p. 1471; Gaz. vol. 157; p. 252.
Hat-fastener. A. W. Stonestreet. No. 967,080; Aug. 9; Sp. p. 2691; Gaz. vol. 157; p. 442.
Hat-fastener. C. A. and R. Conroe. No. 972,438; Oct. 11; Sp. p. 1991; Gaz. vol. 159; p. 349.
Hat-fastener. W. S. Lewis. No. 972,552; Oct. 11; Sp. p. 2259; Gaz. vol. 159; p. 390.
Hat-fastener. J. W. Morris. No. 975,060; Nov. 8; Sp. p. 2229; Gaz. vol. 160; p. 363.
Hat-fastener. J. Tauss. No. 980,021; Dec. 27; Sp. p. 5611; Gaz. vol. 161; p. 970.
Hat-fastener, Lady's. A. Reim. No. 971,474; Sept. 27; Sp. p. 4905; Gaz. vol. 158; p. 859.
Hat-fastening. T. L. Holland and W. H. Curtin. No. 964,780; July 19; Sp. p. 3910; Gaz. vol. 156; p. 650.
Hat-fastening attachment. L. T. Tuttle. No. 953,159; Mar. 29; Sp. p. 5552; Gaz. vol. 152; p. 1012.
Hat-fastening device. R. F. Van Heusen. No. 966,781; Aug. 9; Sp. p. 2059; Gaz. vol. 157; p. 343.
Hat-flanging machine. A. B. Waring. No. 971,094; Sept. 27; Sp. p. 4168; Gaz. vol. 158; p. 735.
Hat-forming press. C. W. Stevens. No. 947,309; Jan. 25; Sp. p. 5118; Gaz. vol. 150; p. 864.
Hat-frame machine. S. Mann. No. 970,935; Sept. 20; Sp. p. 3832; Gaz. vol. 158; p. 654.
Hat-frame-making machine. H. Silbert. No. 968,202; Aug. 23; Sp. p. 5051; Gaz. vol. 157; p. 871.
Hat-frame-making machine. H. Silbert and S. Wachtel. No. 972,407; Oct. 11; Sp. p. 1931; Gaz. vol. 159; p. 339.
Hat-frames, Machine for forming wire. A. Feinstein. No. 947,328; Jan. 25; Sp. p. 5162; Gaz. vol. 150; p. 871.
Hat-guard. R. S. Wiesenfeld. No. 956,917; May 3; Sp. p. 910; Gaz. vol. 154; p. 144.
Hat-guard. B. A. Garlinghouse. No. 978,364; Dec. 13; Sp. p. 2044; Gaz. vol. 161; p. 357.
Hat-hanger. H. A. Koett. No. 954,974; Apr. 12; Sp. p. 2800; Gaz. vol. 153; p. 474.
Hat-hanger. G. Smith, Jr. No. 960,592; June 7; Sp. p. 721; Gaz. vol. 155; p. 119.
Hat-hanger. E. F. Kandlbinder. No. 964,163; July 12; Sp. p. 2486; Gaz. vol. 156; p. 408.
Hat-holder. G. A. Schobert. No. 954,472; Apr. 12; Sp. p. 1657; Gaz. vol. 153; p. 300.
Hat-holder. E. J. Guillard. No. 957,770; May 10; Sp. p. 2691; Gaz. vol. 154; p. 463.
Hat-holder. G. Aubuchon. No. 958,070; May 17; Sp. p. 3556; Gaz. vol. 154; p. 599.
Hat-holder. L. A. Tyler. No. 968,899; Aug. 30; Sp. p. 6537; Gaz. vol. 157; p. 1138.
Hat-holder. M. P. Comeau and J. F. Walsh. No. 973,173; Oct. 18; Sp. p. 3688; Gaz. vol. 159; p. 632.
Hat holding and rotating device. F. D. Saylor. No. 950,406; Feb. 22; Sp. p. 5539; Gaz. vol. 151; p. 971.
Hat-hook. E. L. Meyer. No. 980,162; Dec. 27; Sp. p. 5953; Gaz. vol. 161; p. 1016.
Hat, Hygienic. D. J. Roberts. No. 966,770; Aug. 9; Sp. p. 2041; Gaz. vol. 157; p. 339.
Hat-indicator. C. W. Rozell. No. 979,707; Dec. 27; Sp. p. 4932; Gaz. vol. 161; p. 864.
Hat-matrix. L. Stevens. No. 954,478; Apr. 12; Sp. p. 1669; Gaz. vol. 153; p. 302.
Hat or cap. J. F. Dodd. No. 945,268; Jan. 4; Sp. p. 549; Gaz. vol. 150; p. 90.
Hat-pin. D. Marinsky. No. 945,239; Jan. 4; Sp. p. 487; Gaz. vol. 150; p. 80.
Hat-pin. I. Reiness. No. 945,603; Jan. 4; Sp. p. 1274; Gaz. vol. 150; p. 199.
Hat-pin. E. Plourde. No. 953,225; Mar. 29; Sp. p. 5688; Gaz. vol. 152; p. 1033.
Hat-pin. W. N. Seibert. No. 962,987; June 28; Sp. p. 5756; Gaz. vol. 155; p. 1008.
Hat-pin. J. Irwin. No. 967,924; Aug. 23; Sp. p. 4418; Gaz. vol. 157; p. 778.
Hat-pin. G. W. Moore and J. K. Hutchison. No. 972,208; Oct. 11; Sp. p. 1517; Gaz. vol. 159; p. 270.
Hat-pin. A. Larsen. No. 974,577; Nov. 1; Sp. p. 1153; Gaz. vol. 160; p. 174.
Hat-pin attachment. C. J. Edlavitch. No. 952,890; Mar. 22; Sp. p. 4968; Gaz. vol. 152; p. 894.
Hat-pin attachment. J. R. Jameson. No. 958,404; May 17; Sp. p. 4376; Gaz. vol. 154; p. 715.
Hat-pin device. F. C. Chlan. No. 947,223; Jan. 25; Sp. p. 4891; Gaz. vol. 150; p. 834.
Hat-pin, Grab. J. Valind. No. 979,229; Dec. 20; Sp. p. 3949; Gaz. vol. 161; p. 682.
Hat-pin guard. W. N. Hutchison and J. A. Andrew. No. 975,620; Nov. 15; Sp. p. 3427; Gaz. vol. 160; p. 582.
Hat-pin guide and hat protector and preserver. A. P. Rhodes. No. 969,407; Sept. 6; Sp. p. 544; Gaz. vol. 158; p. 87.
Hat-pin holder. G. C. Bassett. No. 971,484; Sept. 27; Sp. p. 4927; Gaz. vol. 158; p. 862.
Hat-pin holder. E. A. Kochersperger. No. 972,199; Oct. 11; Sp. p. 1501; Gaz. vol. 159; p. 266.
Hat-pin, Safety. B. Brownstein. No. 954,776; Apr. 12; Sp. p. 2346; Gaz. vol. 153; p. 405.
Hat-pins, &c., Safety attachment for. G. Hofmann. No. 954,287; Apr. 5; Sp. p. 1257; Gaz. vol. 153; p. 208.
Hat-planing machine. S. H. Fairchild. No. 962,012; June 21; Sp. p. 3682; Gaz. vol. 155; p. 647.
Hat-planking machine, Felt-. A. Turner. No. 969,999; Sept. 13; Sp. p. 1852; Gaz. vol. 158; p. 315.
Hat-pressing machine. H. C. Baron. No. 954,495; Apr. 12; Sp. p. 1714; Gaz vol. 153; p. 307.
Hat-protector. L. F. Wolfe. No. 975,667; Nov. 15; Sp. p. 3558; Gaz. vol. 160; p. 598.
Hat-rack. R. Bratton. No. 951,231; Mar. 8; Sp. p. 1550; Gaz. vol. 152; p. 278.
Hat-rack. R. Samson. No. 965,660; July 26; Sp. p. 5760; Gaz. vol. 156; p. 980.
Hat-remodeling tool. I. C. Reily. No. 956,865; May 3; Sp. p. 798; Gaz. vol. 154; p. 126.
Hat-securing device. W. G. Weston. No. 968,011; Aug. 23; Sp. p. 4617; Gaz. vol. 157; p. 807.
Hat-shield. J. H. Townsend. No. 954,708; Apr. 12; Sp. p. 2174; Gaz. vol. 153; p. 380.
Hat-size-reducing device. R. H. and H. D. Curtis. No. 949,264; Feb. 15; Sp. p. 3114; Gaz. vol. 151; p. 549.
Hat sweat-band. J. N. Beenken. No. 960,251; June 7; Sp. p. 16; Gaz. vol. 155; p. 6.
Hat sweat-bands, Composition for treating. W. A. Kress. No. 970,724; Sept. 20; Sp. p. 3394; Gaz. vol. 158; p. 583.
Hat-tree. H. D. Lloyd. No. 961,418; June 14; Sp. p. 2413; Gaz. vol. 155; p. 426.
Hat-ventilator. J. M. Davies. No. 970,894; Sept. 20; Sp. p. 3762; Gaz. vol. 158; p. 642.
Hats from a single body, Making two-piece felt. F. J. Muhlfeld. No. 946,975; Jan. 18; Sp. p. 4408; Gaz. vol. 150; p. 725.
Hatband. O. W. Schofield. No. 974,605; Nov. 1; Sp. p. 1201; Gaz. vol. 160; p. 184.
Hatch-fastener. A. Hynd. No. 975,528; Nov. 15; Sp. p. 3233; Gaz. vol. 160; p. 551.
Hatch-fastener. L. W. Young. No. 976,974; Nov. 29; Sp. p. 6409; Gaz. vol. 160; p. 1095.
Hatch-fastener for vessels. M. Mulholland. No. 970,447; Sept. 13; Sp. p. 2766; Gaz. vol. 158; p. 465.
Haulage, Jockey or rope-grip for mechanical. G. A. Webb. No. 946,747; Jan. 18; Sp. p. 3869; Gaz. vol. 150; p. 646.
Hauling and hoisting apparatus. H. L. Phillips. No. 954,881; Apr. 12; Sp. p. 2608; Gaz. vol. 153; p. 443.
Hay-carrier. S. L. Hanson. No. 947,384; Jan. 25; Sp. p. 5297; Gaz. vol. 150; p. 890.
Hay-carrier. H. L. and H. J. Ferris. No. 971,741; Oct. 4; Sp. p. 489; Gaz. vol. 159; p. 85.
Hay-carrier. I. W. Davis and M. J. Evans. No. 975,836; Nov. 15; Sp. p. 3871; Gaz. vol. 160; p. 654.
Hay-cars, Carrier attachment for. W. A. Badger. No. 945,258; Jan. 4; Sp. p. 526; Gaz. vol. 150; p. 86.
Hay-cocker. R. W. Allison. No. 946,480; Jan. 11; Sp. p. 3314; Gaz. vol. 150; p. 533.

Alphabetical list of inventions—Continued.

Hay-cocker. J. and L. Goynon. No. 966,009; Aug. 2; Sp. p. 349; Gaz. vol. 157; p. 56.
Hay-cocking machine. G. W. Latta. No. 964,280; July 12; Sp. p. 2723; Gaz. vol. 156; p. 449.
Hay-derrick. O. R. Becker. No. 979,057; Dec. 20; Sp. p. 3537; Gaz. vol. 161; p. 619.
Hay-distributer. N. C. Miller. No. 966,572; Aug. 9; Sp. p. 1594; Gaz. vol. 157; p. 271.
Hay-drying rack. E. E. Shore and W. T. Wilson. No. 953,239; Mar. 29; Sp. p. 5727; Gaz. vol. 152; p. 1038.
Hay-elevators, Rope-supporting device for. C. A. Hanson. No. 979,665; Dec. 27; Sp. p. 4851; Gaz. vol. 161; p. 851.
Hay-fork. E. Swan. No. 950,875; Mar. 1; Sp. p. 871; Gaz. vol. 152; p. 140.
Hay-fork. J. A. Miller and H. Bingaman. No. 970,940; Sept. 20; Sp. p. 3842; Gaz. vol. 158; p. 656.
Hay-fork. W. S. Thompson. No. 971,324; Sept. 27; Sp. p. 4629; Gaz. vol. 158; p. 810.
Hay-fork attachment. T. S. Barbour. No. 970,415; Sept. 13; Sp. p. 2691; Gaz. vol. 158; p. 455.
Hay-forks, Sling attachment for. J. A. Cross. No. 963,121; July 5; Sp. p. 249; Gaz. vol. 156; p. 33.
Hay-gatherer rack. N. Fryman. No. 952,670; Mar. 22; Sp. p. 4509; Gaz. vol. 152; p. 819.
Hay-grapple. H. P. Hammat. No. 953,613; Mar. 29; Sp. p. 6530; Gaz. vol. 152; p. 1166.
Hay-handling mechanism. M. H. Madsen. No. 954,868; Apr. 12; Sp. p. 2575; Gaz. vol. 153; p. 438.
Hay-loader. J. A. Johnson. No. 947,018; Jan. 18; Sp. p. 4493; Gaz. vol. 150; p. 740.
Hay-loader. B. A. Spinney. No. 952,847; Mar. 22; Sp. p. 4892; Gaz. vol. 152; p. 880.
Hay-loader. J. Nelson. No. 956,145; Apr. 26; Sp. p. 5324; Gaz. vol. 153; p. 935.
Hay-loader. S. K. Dennis. No. 959,477; May 31; Sp. p. 6607; Gaz. vol. 154; p. 1127.
Hay-loader. S. K. Dennis. No. 960,845; June 7; Sp. p. 1223; Gaz. vol. 155; p. 204.
Hay-loader. J. Dain. No. 961,757; June 21; Sp. p. 3132; Gaz. vol. 155; p. 564.
Hay-loader. F. A. Battershell. No. 963,113; July 5; Sp. p. 234; Gaz. vol. 156; p. 31.
Hay-loader. H. T. Shipley. No. 966,249; Aug. 2; Sp. p. 871; Gaz. vol. 157; p. 138.
Hay-loader. T. G. Haines. No. 968,656; Aug. 30; Sp. p. 6016; Gaz. vol. 157; p. 1056.
Hay-loader. C. H. Sies. No. 972,132; Oct. 4; Sp. p. 1335; Gaz. vol. 159; p. 225.
Hay-loader. J. Hadley. No. 979,846; Dec. 27; Sp. p. 5269; Gaz. vol. 161; p. 912.
Hay loader and stacker. A. F. Snyder. No. 963,332; July 5; Sp. p. 741; Gaz. vol. 156; p. 107.
Hay-loader attachment. A. B. Jones. No. 970,928; Sept. 20; Sp. p. 3821; Gaz. vol. 158; p. 652.
Hay-loader coupling. W. Bishop. No. 950,987; Mar. 1; Sp. p. 1091; Gaz. vol. 152; p. 175.
Hay-loader rack. J. Wheatley. No. 953,569; Mar. 29; Sp. p. 6436; Gaz. vol. 152; p. 1152.
Hay-loaders, Draft connection for. S. K. Dennis. No. 959,724; May 31; Sp. p. 7122; Gaz. vol. 154; p. 1209.
Hay or manure loading machine. H. G. and W. J. Collins. No. 947,964; Feb. 1; Sp. p. 392; Gaz. vol. 151; p. 62.
Hay or stevedore's hook. H. Abernethy. No. 950,687; Mar. 1; Sp. p. 476; Gaz. vol. 152; p. 77.
Hay-press. G. W. Wilson. No. 947,877; Feb. 1; Sp. p. 219; Gaz. vol. 151; p. 35.
Hay-press. J. W. Guynes. No. 951,988; Mar. 15; Sp. p. 3108; Gaz. vol. 152; p. 561.
Hay-press. A. H. and L. C. O'Quinn. No. 952,347; Mar. 15; Sp. p. 3802; Gaz. vol. 152; p. 680.
Hay-press. J. S. Lafleur. No. 956,111; Apr. 26; Sp. p. 5246; Gaz. vol. 153; p. 923.
Hay-press. D. S. Beard. No. 957,538; May 10; Sp. p. 2227; Gaz. vol. 154; p. 385.
Hay-press. G. F. Woodard. No. 960,612; June 7; Sp. p. 757; Gaz. vol. 155; p. 125.
Hay-press. C. D. Clark. No. 961,102; June 14; Sp. p. 1747; Gaz. vol. 155; p. 317.
Hay-press. C. L. Miller and L. J. Toffelmier. No. 965,646; July 26; Sp. p. 5739; Gaz. vol. 156; p. 976.
Hay-press. J. H. Sawyer. No. 968,496; Aug. 23; Sp. p. 5653; Gaz. vol. 157; p. 974.
Hay-press. G. W. Tucker and E. Beach. No. 969,677; Sept. 6; Sp. p. 1114; Gaz. vol. 158; p. 179.
Hay-press. C. A. Hughes. No. 976,368; Nov. 22; Sp. p. 5061; Gaz. vol. 160; p. 859.
Hay-press attachment. B. Kingham. No. 970,930; Sept. 20; Sp. p. 3826; Gaz. vol. 158; p. 652.
Hay-press feeder. L. B. Wygant. No. 966,635; Aug. 9; Sp. p. 1715; Gaz. vol. 157; p. 292.
Hay-press, Portable. J. M. Dolan and R. P. Aylward. No. 962,555; June 28; Sp. p. 4910; Gaz. vol. 155; p. 860.
Hay-press sweep mechanism. J. R. Gardner. No. 966,088; Aug. 2; Sp. p. 520; Gaz. vol. 157; p. 84.
Hay-presses, &c., Condenser for. L. B. Wygant. No. 957,291; May 10; Sp. p. 1724; Gaz. vol. 154; p. 301.
Hay-presses, Self-tier for. B. F. Sweeney. No. 949,857; Feb. 22; Sp. p. 4362; Gaz. vol. 151; p. 783.
Hay-rack. C. Krogen. No. 956,107; Apr. 26; Sp. p. 5238; Gaz. vol. 153; p. 921.
Hay-rack. J. Voll and D. Dringman. No. 959,274; May 24; Sp. p. 6188; Gaz. vol. 154; p. 1034.
Hay-rack. J. G. Bailey. No. 966,418; Aug. 9; Sp. p. 1191; Gaz. vol. 157; p. 217.
Hay-rack. W. Schlie. No. 978,785; Dec. 13; Sp. p. 2952; Gaz. vol. 161; p. 499.
Hay-rack and box lifting device. A. W. Sorenson. No. 947,088; Jan. 18; Sp. p. 4615; Gaz. vol. 150; p. 762.
Hay-rack brake. I. R. Reeves. No. 958,766; May 24; Sp. p. 5097; Gaz. vol. 154; p. 862.
Hay-rack, Folding. N. M. Rosier. No. 967,060; Aug. 9; Sp. p. 2645; Gaz. vol. 157; p. 435.
Hay-rack, Self-loading. R. Shock. No. 967,071; Aug. 9; Sp. p. 2671; Gaz. vol. 157; p. 438.
Hay-rack sill. R. H. Quick. No. 970,551; Sept. 20; Sp. p. 3005; Gaz. vol. 158; p. 523.
Hay-rake. E. C. Smith. No. 946,883; Jan. 18; Sp. p. 4217; Gaz. vol. 150; p. 694.
Hay-rake. J. Dain. No. 947,803; Feb. 1; Sp. p. 48; Gaz. vol. 151; p. 10.
Hay-rake. C. E. White. No. 954,903; Apr. 12; Sp. p. 2657; Gaz. vol. 153; p. 450.
Hay-rake. C. Pearson. No. 959,796; May 31; Sp. p. 7278; Gaz. vol. 154; p. 1233.
Hay-rake. J. Dain. No. 974,125; Nov. 1; Sp. p. 37; Gaz. vol. 160; p. 9.
Hay-rake. A. W. Richards. No. 974,827; Nov. 8; Sp. p. 1688; Gaz. vol. 160; p. 283.
Hay rake and buncher, Revolving. C. M. Borland. No. 951,675; Mar. 8; Sp. p. 2461; Gaz. vol. 152; p. 426.
Hay rake and loader coupling. W. R. Everitt. No. 973,417; Oct. 18; Sp. p. 4202; Gaz. vol. 159; p. 715.
Hay rake and loader, Side-delivery. M. H. Madsen. No. 955,176; Apr. 19; Sp. p. 3187; Gaz. vol. 153; p. 572.
Hay rake and shocker, Combined. E. J. Foster and F. H. Grafton. No. 978,725; Dec. 13; Sp. p. 2831; Gaz. vol. 161; p. 481.
Hay rake and stacker, Combined. C. A. Robben. No. 973,813; Oct. 25; Sp. p. 5032; Gaz. vol. 159; p. 875.
Hay-rake, Side-delivery. F. K. Lathrop. No. 974,893; Nov. 8; Sp. p. 1837; Gaz. vol. 160; p. 306.
Hay rakes and loaders, Conveyer device for. W. R. Everitt. No. 973,418; Oct. 18; Sp. p. 4203; Gaz. vol. 159; p. 716.
Hay-sling. H. P. Hanson. No. 964,250; July 12; Sp. p. 2656; Gaz. vol. 156; p. 438.
Hay-sling lock or trip. E. Thompson. No. 963,338; July 5; Sp. p. 750; Gaz. vol. 156; p. 109.
Hay-sling trigger. I. J. Westad. No. 973,598; Oct. 25; Sp. p. 4577; Gaz. vol. 159; p. 799.
Hay-sweep, Self-dumping. A. E. Davis. No. 957,456; May 10; Sp. p. 2058; Gaz. vol. 154; p. 357.
Hay-tedder. E. P. Curtis. No. 952,238; Mar. 15; Sp. p. 3580; Gaz. vol. 152; p. 644.
Hay-tedder. R. M. Hughes. No. 952,250; Mar. 15; Sp. p. 3599; Gaz. vol. 152; p. 648.
Hay-tedder. B. F. Lutz. No. 958,514; May 17; Sp. p. 4592; Gaz. vol. 154; p. 753.
Hay tedder and mower. W. F. Schanzlin. No. 957,628; May 10; Sp. p. 2397; Gaz. vol. 154; p. 415.
Hay-tedders, Wind-break attachment for. G. A. Filman. No. 945,028; Jan. 4; Sp. p. 35; Gaz. vol. 150; p. 8.
Hay-turning machine of the drum type. L. Keeser. No. 960,950; June 7; Sp. p. 1415; Gaz. vol. 155; p. 239.
Head and back rest, Adjustable. A. C. Miley. No. 973,371; Oct. 18; Sp. p. 4105; Gaz. vol. 159; p. 700.
Head-covering. N. A. M. Sands. No. 946,770; Jan. 18; Sp. p. 3931; Gaz. vol. 150; p. 654.
Head-envelop. R. A. Bower. No. 975,745; Nov. 15; Sp. p. 3700; Gaz. vol. 160; p. 623.
Head-forming device. S. Roman. No. 962,858; June 28; Sp. p. 5517; Gaz. vol. 155; p. 965.
Head-gate. J. A. Taylor. No. 957,448; May 10; Sp. p. 2042; Gaz. vol. 154; p. 354.
Head-gate. E. Ashley. No. 966,154; Aug. 2; Sp. p. 662; Gaz. vol. 157; p. 106.
Head-gate. J. H. Buttorff. No. 976,720; Nov. 22; Sp. p. 5792; Gaz. vol. 160; p. 980.
Head-gate lock. D. J. Elliott and W. W. Reilly. No. 976,254; Nov. 22; Sp. p. 4810; Gaz. vol. 160; p. 822.
Head-rest. J. H. Akin. No. 966,637; Aug. 9; Sp. p. 1718; Gaz. vol. 157; p. 293.
Head-rest. J. Denzer. No. 969,251; Sept. 6; Sp. p. 222; Gaz. vol. 158; p. 36.
Head-rest. O. F. Neff. No. 973,957; Oct. 25; Sp. p. 5324; Gaz. vol. 159; p. 925.
Head-rest bar. L. F. McNeel. No. 955,094; Apr. 12; Sp. p. 3018; Gaz. vol. 153; p. 512.
Head-rest, Sanitary. E. E. Koken. No. 950,854; Mar. 1; Sp. p. 835; Gaz. vol. 152; p. 134.
Head-rest, Sanitary. E. E. Koken. No. 977,805; Dec. 6; Sp. p. 840; Gaz. vol. 161; p. 132.
Head-rod, Adjustable. H. F. Roach. No. 961,535; June 14; Sp. p. 2674; Gaz. vol. 155; p. 465.

Header, Grain-. R. C. Towner. No. 959,819; May 31; Sp. p. 7329; Gaz. vol. 154; p. 1242.
Heading-machine. J. E. Johnston. No. 967,129; Aug. 9; Sp. p. 2798; Gaz. vol. 157; p. 459.
Heading-machine feed mechanism. A. C. Campbell and N. W. Cummins. No. 959,456; May 31; Sp. p. 6555; Gaz. vol. 154; p. 1120.
Heading-machines, Reverse-feed for. A. C. Campbell. No. 959,453; May 31; Sp. p. 6545; Gaz. vol. 154; p. 1119.
Headlight. H. L. Schuler. No. 949,503; Feb. 15; Sp. p. 3610; Gaz. vol. 151; p. 629.
Headlight. E. B. Poole. No. 953,288; Mar. 29; Sp. p. 5827; Gaz. vol. 152; p. 1053.
Headlight. C. R. Blackman. No. 959,700; May 31; Sp p. 7076; Gaz. vol. 154; p. 1201.
Headlight. R. Macdonald. No. 959,770; May 31; Sp. p. 7217; Gaz. vol. 154; p. 1225.
Headlight. W. C. Huebner. No. 960,018; May 31; Sp. p. 7796; Gaz. vol. 154; p. 1312.
Headlight. C. J. Feiker. No. 964,413; July 12; Sp. p. 2979; Gaz. vol. 156; p. 492.
Headlight. F. P. Bennack. No. 964,481; July 19; Sp. p. 3135; Gaz. vol. 156; p. 546.
Headlight. R. H. Welles. No. 971,709; Oct. 4; Sp. p. 412; Gaz. vol. 159; p. 72.
Headlight. F. Kohout and R. C. Langley. No. 976,468; Nov. 22; Sp. p. 5280; Gaz. vol. 160; p. 896.
Headlight, Adjustable. A. S. Churton. No. 959,920; May 31; Sp. p. 7560; Gaz. vol. 154; p. 1277.
Headlight-adjuster, Automatic. A. B. Brackbill. No. 945,369; Jan. 4; Sp. p. 795; Gaz. vol. 150; p. 122.
Headlight adjuster, Locomotive-. O. B. McCoy. No. 958,522; May 17; Sp. p. 4610; Gaz. vol. 154; p. 756.
Headlight attachment. F. J. Pfister. No. 954,819; Apr. 12; Sp. p. 2462; Gaz. vol. 153; p. 420.
Headlight, Automobile-. W. H. Tonne. No. 952,055; Mar. 15; Sp. p. 3238; Gaz. vol. 152; p. 583.
Headlight-burner. C. E. Powers. No. 961,012; June 7; Sp. p. 1556; Gaz. vol. 155; p. 260.
Headlight, Locomotive-. M. A. Ross. No. 962,469; June 28; Sp. p. 4711; Gaz. vol. 155; p. 830.
Headlight or illuminator. H. L. De Zeng. No. 963,036; July 5; Sp. p. 17; Gaz. vol. 156; p. 5.
Headlight, Revolving. J. H. Clark. No. 966,427; Aug. 9; Sp. p. 1212; Gaz. vol. 157; p. 220.
Headlight-screen. S. Jones. No. 979,508; Dec. 27; Sp. p. 4505; Gaz. vol. 161; p. 795.
Headlight-steering gear, Vehicle-. A. G. Lindley. No. 974,579; Nov. 1; Sp. p. 1156; Gaz. vol. 160; p. 175.
Headlight-support. G. T. Williams and T. L. Harris. No. 956,011; Apr. 26; Sp. p. 5028; Gaz. vol. 153; p. 888.
Headlight, Vehicle-. B. R. Gover. No. 971,265; Sept. 27; Sp. p. 4527; Gaz. vol. 158; p. 792.
Headwear. S. Monoson. No. 972,048; Dec. 6; Sp. p. 1346; Gaz. vol. 161; p. 216.
Headwear and clothing holder. J. Maitland. No. 961,626; June 14; Sp. p. 2866; Gaz. vol. 155; p. 495.
Heald-shaft for wire and metal healds. H. B. Barlow. No. 954,013; Apr. 5; Sp. p. 654; Gaz. vol. 153; p. 117.
Hearses, Attachment for. G. B. Webb. No. 945,650; Jan. 4; Sp. p. 1378; Gaz. vol. 150; p. 215.
Heat, Apparatus for the interchange of. G. Scaramuzza. No. 970,561; Sept. 20; Sp. p. 3026; Gaz. vol. 158; p. 527.
Heat contained in slags, Utilization of. C. Vautin. No. 972,418; Oct. 11; Sp. p. 1957; Gaz. vol. 159; p. 343.
Heat control, Automatic electric. H. G. Geissinger. No. 969,781; Sept. 13; Sp. p. 1370; Gaz. vol. 158; p. 240.
Heat energy, Utilizing. W. H. Smyth. No. 950,082; Feb. 22; Sp. p. 4896; Gaz. vol. 151; p. 862.
Heat-engine, Continuous-combustion. W. F. Brown. No. 972,504; Oct. 11; Sp. p. 2138; Gaz. vol. 159; p. 372.
Heat-engine, Fluid-pressure. J. Molas. No. 973,289; Oct. 18; Sp. p. 3918; Gaz. vol. 159; p. 671.
Heat-exchanging device. M. Krupovess. No. 972,626; Oct. 11; Sp. p. 2442; Gaz. vol. 159; p. 416.
Heat-increasing device. G. C. St. John and F. A. D. Rankins. No. 973,581; Oct. 25; Sp. p. 4550; Gaz. vol. 159; p. 793.
Heat-insulated receptacle. L. R. Steel. No. 957,808; May 10; Sp. p. 2773; Gaz. vol. 154; p. 475.
Heat-insulating linings or coverings, Apparatus for manufacturing. A. G. Brown. No. 974,858; Nov. 8; Sp. p. 1763; Gaz. vol. 160; p. 294.
Heat-insulating wall. C. J. Coleman. No. 948,541; Feb. 8; Sp. p. 1597; Gaz. vol. 151; p. 282.
Heat of clinker withdrawn from refuse-destructors, &c., Means for utilizing the. H. N. Leask. No. 964,282; July 12; Sp. p. 2732; Gaz. vol. 156; p. 450.
Heat of compressors, Utilizing waste. F. Shuman. No. 979,579; Dec. 27; Sp. p. 4676; Gaz. vol. 161; p. 821.
Heat-radiating device. C. H. Way. No. 945,881; Jan. 11; Sp. p. 1950; Gaz. vol. 150; p. 325.
Heat-regulator. J. H. Surridge. No. 973,317; Oct. 18; Sp. p. 3981; Gaz. vol. 159; p. 681.
Heat-regulator, Compensation. M. J. Farquhar. No. 963,039; July 5; Sp. p. 21; Gaz. vol. 156; p. 6.
Heat regulator, Steam-. J. F. McElroy. No. 949,286; Feb. 15; Sp. p. 3153; Gaz. vol. 151; p. 556.
Heater: *See* Air-heater; Barrel-heater; Carbureter-heater; Cream-heater; Curling-iron heater; Dynamite-heater; Electric heater; Electrical heater; Evaporator-heater; Feed-water heater; Flat-iron heater; Gas-heater; Grain-heater; Hot-water heater; Incubator-heater; Incubator and brooder heater; Iron-heater; Liquid-heater; Oil-burning heater; Orchard-heater; Portable heater; Refrigerator-car heater; Sad-iron heater; Sand-heater; Soldering-iron heater; Steam and water heater; Tank-heater; Tin and sheet bar heater; Tire-heater; Vehicle-heater; Wall-heater; Water-heater; Watering-device heater; Wheat-heater.
Heater. T. G. Palmer. No. 949,042; Feb. 15; Sp. p. 2670; Gaz. vol. 151; p. 475.
Heater. H. K. Moore. No. 949,282; Feb. 15; Sp. p. 3142; Gaz. vol. 151; p. 554.
Heater. J. F. Cottrell. No. 951,677; Mar. 8; Sp. p. 2463; Gaz. vol. 152; p. 426.
Heater. R. C. Frampton. No. 961,434; June 14; Sp. p. 2453; Gaz. vol. 155; p. 432.
Heater. C. C. Schaefer. No. 962,864; June 28; Sp. p. 5533; Gaz. vol. 155; p. 967.
Heater. C. H. Hook. No. 964,423; July 12; Sp. p. 2998; Gaz. vol. 156; p. 494.
Heater. C. E. De Forrest. No. 969,749; Sept. 6; Sp. p. 1281; Gaz. vol. 158; p. 205.
Heater. C. H. Hysong. No. 970,450; Sept. 13; Sp. p. 2770; Gaz. vol. 158; p. 466.
Heater. A. H. Merrill. No. 971,134; Sept. 27; Sp. p. 4237; Gaz. vol. 158; p. 748.
Heater. K. Ortt. No. 972,314; Oct. 11; Sp. p. 1742; Gaz. vol. 159; p. 306.
Heater. T. G. Palmer. No. 972,905; Oct. 18; Sp. p. 3062; Gaz. vol. 159; p. 539.
Heater. W. J. Dossey. No. 975,022; Nov. 8; Sp. p. 2145; Gaz. vol. 160; p. 350.
Heater. J. S. McCarthy. No. 979,527; Dec. 27; Sp. p. 4548; Gaz. vol. 161; p. 803.
Heater and radiator, Combined. E. V. Bentley. No. 971,347; Sept. 27; Sp. p. 4681; Gaz. vol. 158; p. 818.
Heater burner, Water-. C. Hart. No. 978,123; Dec. 6; Sp. p. 1511; Gaz. vol. 161; p. 243.
Heater combination, Electric-. J. I. Ayer. No. 968,441; Aug. 23; Sp. p. 5533; Gaz. vol. 157; p. 955.
Heater safety device. I. Filson. No. 969,466; Sept. 6; Sp. p. 650; Gaz. vol. 158; p. 105.
Heaters, Condensate-collector for water-. E. Ruud. No. 975,894; Nov. 15; Sp. p. 4001; Gaz. vol. 160; p. 674.
Heaters, Pilot-light burner for water-. E. Ruud. No. 968,605; Aug. 30; Sp. p. 5896; Gaz. vol. 157; p. 1039.
Heating and lighting system, Oil-gas. W. N. Best. No. 968,233; Aug. 23; Sp. p. 5117; Gaz. vol. 157; p. 882.
Heating and ventilating system, Combined. L. C. Smith. No. 974,928; Nov. 8; Sp. p. 1930; Gaz. vol. 160; p. 318.
Heating apparatus. L. H. Freymuth. No. 948,488; Feb. 8; Sp. p. 1496; Gaz. vol. 151; p. 264.
Heating apparatus. L. V. Driessche. No. 951,060; Mar. 1; Sp. p. 1205; Gaz. vol. 152; p. 198.
Heating apparatus. J. M. W. Kitchen. No. 964,109; July 12; Sp. p. 2386; Gaz. vol. 156; p. 391.
Heating apparatus. J. N. Young. No. 969,022; Aug. 30; Sp. p. 6772; Gaz. vol. 157; p. 1179.
Heating apparatus. J. A. Almirall. No. 971,165; Sept. 27; Sp. p. 4309; Gaz. vol. 158; p. 758.
Heating apparatus, Downdraft. H. D. Sawyer. No. 951,703; Mar. 8; Sp. p. 2498; Gaz. vol. 152; p. 434.
Heating apparatus, Hot-air. C. St. John. No. 970,117; Sept. 13; Sp. p. 2087; Gaz. vol. 158; p. 355.
Heating apparatus, Hot-water. H. A. Bolze. No. 971,966; Oct. 4; Sp. p. 1022; Gaz. vol. 159; p. 170.
Heating apparatus, Steam-. G. P. Campbell. No. 946,333; Jan. 11; Sp. p. 2909; Gaz. vol. 150; p. 482.
Heating apparatus, Steam-. J. A. Donnelly. No. 974,245; Nov. 1; Sp. p. 366; Gaz. vol. 160; p. 53.
Heating appliance. C. C. Spengler and H. T. Sidway. No. 956,742; May 3; Sp. p. 516; Gaz. vol. 154; p. 83.
Heating appliance. C. C. Spengler and H. T. Sidway. No. 956,783; May 3; Sp. p. 605; Gaz. vol. 154; p. 96.
Heating appliances, Automatic mechanical cut-off for electrical. W. B. Matheson and I. D. Brodek. No. 952,681; Mar. 22; Sp. p. 4530; Gaz. vol. 152; p. 823.
Heating-body, Knitted electric. M. Hefter. No. 975,359; Nov. 8; Sp. p. 2875; Gaz. vol. 160; p. 464.
Heating-boiler. A. G. Cripps. No. 969,137; Aug. 30; Sp. p. 7014; Gaz. vol. 157; p. 1220.
Heating-boiler. A. G. Cripps. No. 977,786; Dec. 6; Sp. p. 809; Gaz. vol. 161; p. 125.
Heating boiler, House-. L. S. Bush. No. 948,413; Feb. 8; Sp. p. 1336; Gaz. vol. 151; p. 239.
Heating boiler, House-. M. F. Kenely. No. 970,833; Sept. 20; Sp. p. 3647; Gaz. vol. 158; p. 622.
Heating by means of radio-incandescent bodies, System of. M. Delage. No. 975,837; Nov. 15; Sp. p. 3875; Gaz. vol. 160; p. 654.
Heating, cooling, and ventilating apparatus. J. Keith. No. 951,250; Mar. 8; Sp. p. 1587; Gaz. vol. 152; p. 284.
Heating, cooling, and ventilating system. J. C. Veil. No. 946,889; Jan. 18; Sp. p. 4232; Gaz. vol. 150; p. 696.
Heating device. C. Forth. No. 950,666; Mar. 1; Sp. p. 436; Gaz. vol. 152; p. 71.

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Heating device. W. E. Frost. No. 954,428; Apr. 12; Sp. p. 1543; Gaz. vol. 153; p. 284.
Heating device. T. Smith. No. 979,043; Dec. 20; Sp. p. 3509; Gaz. vol. 161; p. 614.
Heating device, Electric. R. L. Hailey. No. 959,215; May 24; Sp. p. 6066; Gaz. vol. 154; p. 1014.
Heating device, Electric. C. Aalborg. No. 974,329; Nov. 1; Sp. p. 578; Gaz. vol. 160; p. 85.
Heating device, Hot-water. M. F. Bishop. No. 979,415; Dec. 27; Sp. p. 4312; Gaz. vol. 161; p. 765.
Heating devices, Regulating. H. C. Mallory. No. 963,007; June 28; Sp. p. 5794; Gaz. vol. 155; p. 1014.
Heating-furnace. W. Fisher. No. 952,426; Mar. 15; Sp. p. 3948; Gaz. vol. 152; p. 706.
Heating-furnace. F. J. Droege. No. 960,517; June 7; Sp. p. 560; Gaz. vol. 155; p. 93.
Heating-furnace for sheet metal. L. C. Steele. No. 964,191; July 12; Sp. p. 2533; Gaz. vol. 156; p. 417.
Heating mediums by an expansible fluid in a thermostat, Device for automatically regulating. E. Segesváry. No. 950,306; Feb. 22; Sp. p. 5358; Gaz. vol. 151; p. 940.
Heating or cooking apparatus, Electric. T. Abtmeyer. No. 977,580; Dec. 6; Sp. p. 375; Gaz. vol. 161; p. 55.
Heating plant. G. C. Andrews. No. 946,911; Jan. 18; Sp. p. 4282; Gaz. vol. 150; p. 704.
Heating plant, Solar. M. L. Little. No. 965,391; July 26; Sp. p. 5160; Gaz. vol. 156; p. 885.
Heating-receptacle, Electric. W. Richmond. No. 972,248; Oct. 11; Sp. p. 1614; Gaz. vol. 159; p. 283.
Heating-receptacle, Electric. W. Stanley. No. 976,944; Nov. 29; Sp. p. 6325; Gaz. vol. 160; p. 1084.
Heating running water, Apparatus for electrically. G. and L. Fuller. No. 957,667; May 10; Sp. p. 2483; Gaz. vol. 154; p. 429.
Heating system. B. F. Seymour. No. 946,276; Jan. 11; Sp. p. 2784; Gaz. vol. 150; p. 463.
Heating system. H. C. Mallory. No. 954,532; Apr. 12; Sp. p. 1789; Gaz. vol. 153; p. 321.
Heating system. F. C. Goff. No. 957,156; May 3; Sp. p. 1392; Gaz. vol. 154; p. 223.
Heating system. R. M. Dixon. No. 965,283; July 26; Sp. p. 4919; Gaz. vol. 156; p. 848.
Heating system. G. E. Hulse. No. 966,409; Aug. 2; Sp. p. 1166; Gaz. vol. 157; p. 189.
Heating system. P. F. Wullschleger. No. 971,336; Sept. 27; Sp. p. 4654; Gaz. vol. 158; p. 814.
Heating system. H. Lemp. No. 974,161; Nov. 1; Sp. p. 107; Gaz. vol. 160; p. 21.
Heating system, Air-. S. S. Laughlin. No. 964,921; July 19; Sp. p. 4192; Gaz. vol. 156; p. 699.
Heating system and furnace. C. W. Wiegand. No. 952,776; Mar. 22; Sp. p. 4750; Gaz. vol. 152; p. 855.
Heating system, Automatically-regulated. D. J. Powers. No. 961,734; June 14; Sp. p. 3072; Gaz. vol. 155; p. 532.
Heating system, Hot-water. E. Segesváry. No. 947,582; Jan. 25; Sp. p. 5755; Gaz. vol. 150; p. 956.
Heating system, Hot-water. H. L. Bruce. No. 956,677; May 3; Sp. p. 370; Gaz. vol. 154; p. 61.
Heating system, Indirect water-. E. Ruud. No. 975,895; Nov. 15; Sp. p. 4003; Gaz. vol. 160; p. 674.
Heating system, Steam-. W. L. Garland. No. 959,504; May 31; Sp. p. 6681; Gaz. vol. 154; p. 1137.
Heating system, Steam-. J. Collis. No. 962,550; June 28; Sp. p. 4889; Gaz. vol. 155; p. 858.
Heating system, Steam-. J. G. Midgley. No. 963,613; July 5; Sp. p. 1308; Gaz. vol. 156; p. 201.
Heating system, Steam-. H. K. and I. Z. Kriebel. No. 968,668; Aug. 30; Sp. p. 6037; Gaz. vol. 157; p. 1060.
Heating system, Steam-. A. G. Paul. No. 971,070; Sept. 27; Sp. p. 4118; Gaz. vol. 158; p. 728.
Heating system, Steam-. J. A. Donnelly. No. 974,246; Nov. 1; Sp. p. 369; Gaz. vol. 160; p. 53.
Heating system, Water-. J. F. Hickerson. No. 958,121; May 17; Sp. p. 3650; Gaz. vol. 154; p. 615.
Heating systems, Gas-heating attachment for pipes of. W. Thomas. No. 971,938; Oct. 4; Sp. p. 933; Gaz. vol. 159; p. 158.
Heating systems, Mechanism for discharging water of condensation from steam-. E. B. Gordon, Jr. No. 953,330; Mar. 29; Sp. p. 5912; Gaz. vol. 152; p. 1068.
Heating systems, Pipe connection for fluid-. E. J. Deegan. No. 961,341; June 14; Sp. p. 2276; Gaz. vol. 155; p. 401.
Heating systems, Regulator for water-. B. Humphrey. No. 968,664; Aug. 30; Sp. p. 6029; Gaz. vol. 157; p. 1059.
Heating tools electrically, Apparatus for. J. Oertly and C. F. Dudley. No. 974,420; Nov. 1; Sp. p. 765; Gaz. vol. 160; p. 116.
Heating unit, Electric. H. M. Smith. No. 962,793; June 28; Sp. p. 5402; Gaz. vol. 155; p. 943.
Heating unit, Electric. T. Van Aller. No. 971,101; Sept. 27; Sp. p. 4182; Gaz. vol. 158; p. 738.
Heating utensil. K. L. Comes. No. 958,227; May 17; Sp. p. 3863; Gaz. vol. 154; p. 652.
Heating vessel. E. W. Strohm. No. 952,690; Mar. 22; Sp. p. 4549; Gaz. vol. 152; p. 826.
Heating water, milk, &c., for sterilizing or other purposes, Apparatus for. J. S. Forbes. No. 973,270; Oct. 18; Sp. p. 3883; Gaz. vol. 159; p. 664.
Heddle. W. Fehr and J. Kaufmann. No. 950,169; Feb. 22; Sp. p. 5079; Gaz. vol. 151; p. 891.
Heddle-frame. W. Fehr and J. Kaufmann. No. 952,563; Mar. 22; Sp. p. 4265; Gaz. vol. 152; p. 781.
Heddle-frame. G. Nuttall. No. 971,551; Oct. 4; Sp. p. 87; Gaz. vol. 159; p. 17.
Heddle-frame. G. Nuttall. No. 972,901; Oct. 18; Sp. p. 3053; Gaz. vol. 159; p. 538.
Heddle-making machine. A. B. Kasparson. No. 951,248; Mar. 8; Sp. p. 1578; Gaz. vol. 152; p. 283.
Heddle-making machine. W. Fehr and J. Kaufmann. No. 970,808; Sept. 20; Sp. p. 3592; Gaz. vol. 158; p. 614.
Heddles, Making. W. Fehr and J. Kaufmann. No. 974,130; Nov. 1; Sp. p. 50; Gaz. vol. 160; p. 11.
Hedge-trimmer. J. A. Mahood. No. 966,108; Aug. 2; Sp. p. 561; Gaz. vol. 157; p. 91.
Hedge-trimming machine. M. Bielenberg. No. 954,667; Apr. 12; Sp. p. 2093; Gaz. vol. 153; p. 367.
Heel. J. H. Nash. No. 953,099; Mar. 29; Sp. p. 5419; Gaz. vol. 152; p. 993.
Heel. F. L. Alley. No. 979,241; Dec. 20; Sp. p. 3975; Gaz. vol. 161; p. 685.
Heel and sole edge waxing machine. T. G. Plant. No. 966,472; Aug. 9; Sp. p. 1333; Gaz. vol. 157; p. 237.
Heel and sole protector, Boot and shoe. F. W. Whitcher and C. F. Randall. No. 959,982; May 31; Sp. p. 7708; Gaz. vol. 154; p. 1299.
Heel and sole protector setting machine. H. W. Winter. No. 973,605; Oct. 25; Sp. p. 4602; Gaz. vol. 159; p. 801.
Heel and sole protectors for boots and shoes, Machine for setting. H. W. Winter and B. J. Conlon. No. 959,984; May 31; Sp. p. 7712; Gaz. vol. 154; p. 1300.
Heel-attaching means for shoes. F. L. Rouse. No. 947,353; Jan. 25; Sp. p. 5227; Gaz. vol. 150; p. 880.
Heel, Boot and shoe. S. Peterson. No. 955,100; Apr. 12; Sp. p. 3027; Gaz. vol. 153; p. 513.
Heel, Boot and shoe. H. W. Cook. No. 976,552; Nov. 22; Sp. p. 5473; Gaz. vol. 160; p. 924.
Heel, Boot or shoe. C. E. Macduffee. No. 961,625; June 14; Sp. p. 2865; Gaz. vol. 155; p. 495.
Heel-breasting machine. J. Gouldbourn. No. 955,865; Apr. 26; Sp. p. 4712; Gaz. vol. 153; p. 837.
Heel-breasting machine. G. T. McLeod. No. 957,986; May 17; Sp. p. 3228; Gaz. vol. 154; p. 567.
Heel-breasting machine. J. Gouldbourn. No. 968,516; Aug. 23; Sp. p. 5695; Gaz. vol. 157; p. 981.
Heel breasting machine, Boot and shoe. M. D. Phelan. No. 958,005; May 17; Sp. p. 3287; Gaz. vol. 154; p. 575.
Heel-burnishing machine. C. E. Hood. No. 957,958; May 17; Sp. p. 3129; Gaz. vol. 154; p. 557.
Heel-compressing machine. T. Lund. No. 974,405; Nov. 1; Sp. p. 731; Gaz. vol. 160; p. 111.
Heel-compressor. M. D. Phelan. No. 958,001; May 17; Sp. p. 3267; Gaz. vol. 154; p. 573.
Heel, Cushion-. I. Taillefer. No. 968,434; Aug. 23; Sp. p. 5523; Gaz. vol. 157; p. 953.
Heel, Cushion-. W. H. Watson. No. 972,088; Oct. 4; Sp. p. 1247; Gaz. vol. 159; p. 211.
Heel-cushion. M. Byrne. (Reissue.) No. 13,150; Sept. 6; Sp. p. 1327; Gaz. vol. 158; p. 211.
Heel-cushion fastening. W. L. Gordon. No. 959,513; May 31; Sp. p. 6695; Gaz. vol. 154; p. 1139.
Heel, Detachable leather. M. L. Silverstein. No. 965,415; July 26; Sp. p. 5206; Gaz. vol. 156; p. 893.
Heel, Detachable shoe-. F. G. McCollum. No. 951,021; Mar. 1; Sp. p. 1146; Gaz. vol. 152; p. 186.
Heel-edge liner. G. T. McLeod. No. 957,993; May 17; Sp. p. 3247; Gaz. vol. 154; p. 570.
Heel, Elastic. R. E. Foster and P. W. Pratt. No. 973,026; Oct. 18; Sp. p. 3360; Gaz. vol. 159; p. 581.
Heel-finishing machine. C. Pease. No. 950,301; Feb. 22; Sp. p. 5343; Gaz. vol. 151; p. 938.
Heel for boots and shoes, Detachable revolving. L. F. Keijser. No. 966,923; Aug. 9; Sp. p. 2366; Gaz. vol. 157; p. 387.
Heel for boots and shoes, Pneumatic. J. S. Busky. No. 949,754; Feb. 22; Sp. p. 4125; Gaz. vol. 151; p. 746.
Heel for shoes, Exchangeable. S. Stromer. No. 979,593; Dec. 27; Sp. p. 4703; Gaz. vol. 161; p. 826.
Heel-nailing machine. E. Woodward. No. 947,366; Jan. 25; Sp. p. 5255; Gaz. vol. 150; p. 885.
Heel-nailing machine. E. Woodward. No. 958,058; May 17; Sp. p. 3529; Gaz. vol. 154; p. 595.
Heel-nailing machine. E. E. Winkley. No. 979,237; Dec. 20; Sp. p. 3958; Gaz. vol. 161; p. 683.
Heel of boots, &c. H. Fenton. No. 980,085; Dec. 27; Sp. p. 5771; Gaz. vol. 161; p. 990.
Heel or sole edge waxing machine. T. G. Plant. No. 966,471; Aug. 9; Sp. p. 1328; Gaz. vol. 157; p. 236.
Heel-plate. E. W. Gray. No. 975,764; Nov. 15; Sp. p. 3739; Gaz. vol. 160; p. 630.
Heel plate and frame. A. H. Devin. No. 970,313; Sept. 13; Sp. p. 2502; Gaz. vol. 158; p. 422.
Heel-protector. R. J. Dearborn. No. 970,692; Sept. 20; Sp. p. 3326; Gaz. vol. 158; p. 571.
Heel-rand-making machine. A. C. Heath. No. 966,687; Aug. 9; Sp. p. 1815; Gaz. vol. 157; p. 310.
Heel-shaver. M. D. Phelan. No. 958,006; May 17; Sp. p. 3300; Gaz. vol. 154; p. 575.
Heel-shaving machines, Counter-guard for. F. F. Eno. No. 957,943; May 17; Sp. p. 3075; Gaz. vol. 154; p. 551

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Heel, Shoe-. H. J. P. Rottger. No. 960,708; June 7; Sp. p. 954; Gaz. vol. 155; p. 158.
Heel, Shoe-. J. Colbert. No. 975,397; Nov. 15; Sp. p. 2967; Gaz. vol. 160; p. 504.
Heel, Shoe-. H. C. Karpen. No. 978,896; Dec. 20; Sp. p. 3164; Gaz. vol. 161; p. 562.
Heel, Spring-. E. A. C. Schoof. No. 955,700; Apr. 19; Sp. p. 4351; Gaz. vol. 153; p. 751.
Heel-spring. G. E. Swan. No. 969,001; Aug. 30; Sp. p. 6730; Gaz. vol. 157; p. 1172.
Heel-spring. T. E. Taylor and J. A. Thomas. No. 970,276; Sept. 13; Sp. p. 2430; Gaz. vol. 158; p. 410.
Heel-support. J. C. Moorefield. No. 959,956; May 31; Sp. p. 7652; Gaz. vol. 154; p. 1290.
Heel trimming machine, Boot and shoe. W. T. B. Roberts. No. 974,708; Nov. 1; Sp. p. 1435; Gaz. vol. 160; p. 221.
Heel-trimming machines, Counter-guard for. F. E. Blair. No. 972,151; Oct. 11; Sp. p. 1398; Gaz. vol. 159; p. 251.
Heeling-machine. E. Woodward. No. 958,056; May 17; Sp. p. 3471; Gaz. vol. 154; p. 594.
Heeling-machine. T. G. Plant. No. 958,282; May 17; Sp. p. 3998; Gaz. vol. 154; p. 671.
Heeling-machine. T. G. Plant. No. 958,292; May 17; Sp. p. 4060; Gaz. vol. 154; p. 675.
Heeling-machine. T. G. Plant. No. 958,302; May 17; Sp. p. 4133; Gaz. vol. 154; p. 679.
Heeling-machine attachment. T. G. Plant. No. 958,281; May 17; Sp. p. 3995; Gaz. vol. 154; p. 670.
Heeling-machine nail-block templet. G. F. Stewart. No. 947,510; Jan. 25; Sp. p. 5613; Gaz. vol. 150; p. 932.
Heeling-machine top-lift holder. W. C. Stewart. No. 958,041; May 17; Sp. p. 3444; Gaz. vol. 154; p. 589.
Heeling-machine work-holder. W. C. Stewart. No. 958,038; May 17; Sp. p. 3427; Gaz. vol. 154; p. 588.
Heeling-machine work-holder. T. G. Plant. No. 958,305; May 17; Sp. p. 4154; Gaz. vol. 154; p. 680.
Heeling-machine work-support. T. G. Plant. No. 958,300; May 17; Sp. p. 4110; Gaz. vol 154; p. 678.
Helical rolls, Making. C. S. Lockwood. No. 958,144; May 17; Sp. p. 3698; Gaz. vol. 154; p. 625.
Heliograph. T. J. Maher. No. 950,938; Mar. 1; Sp. p. 999; Gaz. vol. 152; p. 160.
Helmet, Respiratory. H. Bentz. No. 968,232; Aug. 23; Sp. p. 5113; Gaz. vol. 157; p. 881.
Hemmer. A. H. De Voe. No. 955,950; Apr. 26; Sp. p. 4893; Gaz. vol. 153; p. 866.
Hemmer-guide. V. H. Canham. No. 972,995; Oct. 18; Sp. p. 3277; Gaz. vol. 159; p. 570.
Hexamethylene-tetramin-diguaiacol. E. Barell and F. Elger. No. 979,917; Dec. 27; Sp. p. 5412; Gaz. vol. 161; p. 936.
Hexamethylene-tetramin-monoguaiacol. E. Barell and F. Elger. No. 979,916; Dec. 27; Sp. p. 5411; Gaz. vol. 161; p. 936.
Hide and other material working machine. E. A. Fisher and J. W. Steinhauser. No. 950,618; Mar. 1; Sp. p. 329; Gaz. vol. 152; p. 53.
Hide-treating apparatus. C. J. Glasel. No. 970,701; Sept. 20; Sp. p. 3344; Gaz. vol. 158; p. 574.
Hide-treating machine. S. Torrens. No. 972,415; Oct. 11; Sp. p. 1952; Gaz. vol. 159; p. 342.
Hide-unhairing machines, Roller for. H. B. Rees. No. 959,262; May 24; Sp. p. 6162; Gaz. vol. 154; p. 1030.
Hides and skins, Machine for preparing. L. Richter. No. 977,132; Nov. 29; Sp. p. 6756; Gaz. vol. 160; p. 1150.
Hides and skins, Machine for treating. D. P. Cummings. No. 948,208; Feb. 1; Sp. p. 877; Gaz. vol. 151; p. 144.
Hides, Apparatus for treating, dehairing, swelling, and tanning. A. Fay. No. 971,126; Sept. 27; Sp. p. 4220; Gaz. vol. 158; p. 745.
Hides or skins, Machine for treating. W. Evans. No. 962,205; June 21; Sp. p. 4125; Gaz. vol. 155; p. 716.
Hides or skins, Treating. C. J. Glasel. No. 952,703; Mar. 22; Sp. p. 4579; Gaz. vol. 152; p. 830.
Hides or skins, Unhairing and tanning. G. D. Burton. No. 976,036; Nov. 15; Sp. p. 4262; Gaz. vol. 160; p. 723.
Hides, Removing hair from. L. Cheeseman. No. 945,221; Jan. 4; Sp. p. 446; Gaz. vol. 150; p. 74.
Hides, skins, or leather, Machine for treating. W. A. Wüst. No. 953,937; Apr. 5; Sp. p. 502; Gaz. vol. 153; p. 91.
High and low water alarm. C. Brent. No. 978,983; Dec. 20; Sp. p. 3379; Gaz. vol. 161; p. 594.
High chair, Adjustable. H. P. Hansen. No. 957,055; May 3; Sp. p. 1195; Gaz. vol. 154; p. 190.
High-chair go-cart. G. E. Francis. No. 949,421; Feb. 15; Sp. p. 3458; Gaz. vol. 151; p. 604.
High-potential switch. F. O. Hartman. No. 949,182; Feb. 15; Sp. p. 2945; Gaz. vol. 151; p. 522.
High-potential switch. E. M. Hewlett and T. E. Button. No. 973,657; Oct. 25; Sp. p. 4720; Gaz. vol. 159; p. 820.
High-power boiler. L. M. G. Delaunay-Belleville. No. 951,679; Mar. 8; Sp. p. 2467; Gaz. vol. 152; p. 427.
High-voltage receptacle and plug. F. J. Russell. No. 969,409; Sept. 6; Sp. p. 548; Gaz. vol. 158; p. 88.
High-voltage switch. W. T. Goddard. No. 959,929; May 31; Sp. p. 7578; Gaz. vol. 154; p. 1280.
Hill-climbing wheel. D. C. Slaght. No. 965,030; July 19; Sp. p. 4400; Gaz. vol. 156; p. 734.
Hinge. A. N. Thomas. No. 946,587; Jan. 18; Sp. p. 3524; Gaz. vol. 150; p. 594.
Hinge. M. Hauser. No. 947,304; Jan. 25; Sp. p. 5108; Gaz. vol. 150; p. 862.
Hinge. G. Olson and J. Persson. No. 948,073; Feb. 1; Sp. p. 617; Gaz. vol. 151; p. 100.
Hinge. O. R. Milke. No. 948,112; Feb. 1; Sp. p. 691; Gaz. vol. 151; p. 113.
Hinge. W. L. Young. No. 948,656; Feb. 8; Sp. p. 1855; Gaz. vol. 151; p. 320.
Hinge. O. R. Milke. No. 949,490; Feb. 15; Sp. p. 3587; Gaz. vol. 151; p. 625.
Hinge. J. T. Trotter. No. 949,866; Feb. 22; Sp. p. 4392; Gaz. vol. 151; p. 787.
Hinge. C. T. J. Giles. No. 950,386; Feb. 22; Sp. p. 5504; Gaz. vol. 151; p. 964.
Hinge. C. C. Meyer. No. 951,327; Mar. 8; Sp. p. 1762; Gaz. vol. 152; p. 309.
Hinge. C. Bartels. No. 951,900; Mar. 15; Sp. p. 2940; Gaz. vol. 152; p. 532.
Hinge. F. W. Farnam. No. 951,944; Mar. 15; Sp. p. 3021; Gaz. vol. 152; p. 547.
Hinge. E. L. William. No. 952,059; Mar. 15; Sp. p. 3244; Gaz. vol. 152; p. 584.
Hinge. E. F. Hulbert. No. 957,160; May 3; Sp. p. 1408; Gaz. vol. 154; p. 225.
Hinge. C. Glover. No. 958,740; May 24; Sp. p. 5047; Gaz. vol. 154; p. 853.
Hinge. J. Tritsch. No. 959,001; May 24; Sp. p. 5620; Gaz. vol. 154; p. 944.
Hinge. C. T. J. Giles. No. 960,085; May 31; Sp. p. 7947; Gaz. vol. 154; p. 1334.
Hinge. M. L. Packer. No. 967,230; Aug. 16; Sp. p. 3007; Gaz. vol. 157; p. 520.
Hinge. W. A. Peterson. No. 967,550; Aug. 16; Sp. p. 3660; Gaz. vol. 157; p. 629.
Hinge. R. W. Hardy. No. 968,473; Aug. 23; Sp. p. 5597; Gaz. vol. 157; p. 966.
Hinge. C. A. Miller. No. 968,584; Aug. 30; Sp. p. 5850; Gaz. vol. 157; p. 1032.
Hinge. W. T. Wightman. No. 969,926; Sept. 13; Sp. p. 1689; Gaz. vol. 158; p. 291.
Hinge. S. S. Matthes. No. 970,635; Sept. 20; Sp. p. 3211; Gaz. vol. 158; p. 552.
Hinge. R. R. Brown. No. 971,723; Oct. 4; Sp. p. 449; Gaz. vol. 159; p. 78.
Hinge. W. S. Ault. No. 972,090; Oct. 4; Sp. p. 1250; Gaz. vol. 159; p. 212.
Hinge. A. Hughes, Jr. No. 974,492; Nov. 1; Sp. p. 960; Gaz. vol. 160; p. 143.
Hinge. J. Lester and H. W. Humphrey. No. 974,682; Nov. 1; Sp. p. 1365; Gaz. vol. 160; p. 213.
Hinge. J. Wright. No. 975,097; Nov. 8; Sp. p. 2299; Gaz. vol. 100; p. 376.
Hinge. J. Hauer. No. 975,131; Nov. 8; Sp. p. 2392; Gaz. vol. 160; p. 388.
Hinge. W. D. Paynter. No. 976,392; Nov. 22; Sp. p. 5126; Gaz. vol. 160; p. 869.
Hinge. W. H. Fromhart. No. 976,999; Nov. 29; Sp. p. 6466; Gaz. vol. 160; p. 1103.
Hinge, Adjustable. C. B. Trimmer. No. 947,168; Jan. 18; Sp. p. 4763; Gaz. vol. 150; p. 785.
Hinge, Adjustable. A. Vanderveld. No. 974,451; Nov. 1; Sp. p. 860; Gaz. vol. 160; p. 127.
Hinge and door-check, Combined. P. Märksch. No. 973,680; Oct. 25; Sp. p. 4768; Gaz. vol. 159; p. 829.
Hinge and handle, Combined. E. F. Hulbert. No. 966,020; Aug. 2; Sp. p. 382; Gaz. vol. 157; p. 60.
Hinge and lock for box-covers. F. W. Tobey. No. 959,971; May 31; Sp. p. 7686; Gaz. vol. 154; p. 1295.
Hinge and receptacle, Combined. W. D. Hodson. No. 975,690; Nov. 15; Sp. p. 3593; Gaz. vol. 160; p. 605.
Hinge, Blind-. J. A. Poirier. No. 970,746; Sept. 20; Sp. p. 3451; Gaz. vol. 158; p. 590.
Hinge, Casket-lid. F. Stanley. No. 948,618; Feb. 8; Sp. p. 1779; Gaz. vol. 151; p. 306.
Hinge, Concealed. D. Williamson. No. 949,949; Feb. 22; Sp. p. 4568; Gaz. vol. 151; p. 816.
Hinge, Door-. F. Schwarz. No. 956,738; May 3; Sp. p. 509; Gaz. vol. 154; p. 82.
Hinge, Door-. G. H. White. No. 965,265; July 26; Sp. p. 4880; Gaz. vol. 156; p. 843.
Hinge, Door-. P. Gottschall. No. 968,764; Aug. 30; Sp. p. 6260; Gaz. vol. 157; p. 1093.
Hinge, Door-. P. E. Howard. No. 974,794; Nov. 8; Sp. p. 1617; Gaz. vol. 160; p. 272.
Hinge, Double-acting spring-. J. A. Fischer. No. 962,330; June 21; Sp. p. 4386; Gaz. vol. 155; p. 757.
Hinge, Double-acting spring-. H. G. Voight. No. 965,967; Aug. 2; Sp. p. 251; Gaz. vol. 157; p. 42.
Hinge, Double-acting spring-. E. Bommer. No. 966,380; Aug. 2; Sp. p. 1106; Gaz. vol. 157; p. 179.
Hinge, Double-swinging-door. O. E. Halin. No. 975,130; Nov. 8; Sp. p. 2390; Gaz. vol. 160; p. 387.
Hinge for display-boxes. J. F. Brent. No. 972,326; Oct. 11; Sp. p. 1760; Gaz. vol. 159; p. 309.
Hinge for doors, gates, and the like. J. D. Roots. No. 963,069; July 5; Sp. p. 83; Gaz. vol. 156; p. 16.
Hinge for molding-flasks. H. H. Sanner. No. 965,752; July 26; Sp. p. 5941; Gaz. vol. 156; p. 1011.
Hinge for screens, Separable. E. E. Bumpus. No. 961,751; June 21; Sp. p. 3118; Gaz. vol. 155; p. 562.

Alphabetical list of inventions—Continued.

Hinge for self-closing gates. J. Buellesbach. No. 960,268; June 7; Sp. p. 61; Gaz. vol. 155; p. 13.
Hinge, Gable-door. E. A. Schaal. No. 973,073; Oct. 18; Sp. p. 3442; Gaz. vol. 159; p. 596.
Hinge-gage and hinge-seat cutter, Combined. F. J. Ziegler. No. 946,190; Jan. 11; Sp. p. 2599; Gaz. vol. 150; p. 432.
Hinge, Gate-. E. W. Sawyer. No. 978,063; Dec. 6; Sp. p. 1380; Gaz. vol. 161; p. 222.
Hinge, Gravitating. J. Kunzmann and Z. Zimmerman. No. 950,537; Mar. 1; Sp. p. 160; Gaz. vol. 152; p. 27.
Hinge, Gravity-. J. A. Stuart. No. 945,820; Jan. 11; Sp. p. 1807; Gaz. vol. 150; p. 303.
Hinge-joint. F. Wetteroth. No. 957,528; May 10; Sp. p. 2204; Gaz. vol. 154; p. 381.
Hinge, Lock-. M. Woods. No. 945,662; Jan. 4; Sp. p. 1405; Gaz. vol. 150; p. 219.
Hinge, Molding-flask sliding. S. D. Robinson. No. 975,159; Nov. 8; Sp. p. 2447; Gaz. vol. 160; p. 397.
Hinge-pin remover. G. W. Bowers. No. 945,442; Jan. 4; Sp. p. 937; Gaz. vol. 150; p. 147.
Hinge, Shutter-. J. H. Daugherty. No. 956,304; Apr. 26; Sp. p. 5686; Gaz. vol. 153; p. 990.
Hinge, Shutter-. A. B. Landis. No. 959,560; May 31; Sp. p. 6795; Gaz. vol. 154; p. 1156.
Hinge, Spring-. F. Brucker and M. T. Love. No. 948,410; Feb. 8; Sp. p. 1331; Gaz. vol. 151; p. 238.
Hinge, Spring-. G. C. Jenner. No. 951,189; Mar. 8; Sp. p. 1464; Gaz. vol. 152; p. 265.
Hinge, Spring-. M. Merriman. No. 955,653; Apr. 19; Sp. p. 4241; Gaz. vol. 153; p. 734.
Hinge, Spring-. F. H. Ellis. No. 957,603; May 10; Sp. p. 2339; Gaz. vol. 154; p. 406.
Hinge, Spring-. A. S. Nero. No. 963,925; July 12; Sp. p. 1995; Gaz. vol. 156; p. 328.
Hinge, Spring-. W. J. Keene and G. W. Schuster. No. 971,281; Sept. 27; Sp. p. 4554; Gaz. vol. 158; p. 796.
Hinge, Spring-. A. S. Nero. No. 977,468; Dec. 6; Sp. p. 88; Gaz. vol. 161; p. 16.
Hinge, Spring door-. H. K. Hansen. No. 962,426; June 28; Sp. p. 4614; Gaz. vol. 155; p. 815.
Hinge, Trunk-door. I. Feigenbaum. No. 948,992; Feb. 15; Sp. p. 2553; Gaz. vol. 151; p. 459.
Hinges, Protecting device for strap-. F. J. Proshinska. No. 954,883; Apr. 12; Sp. p. 2612; Gaz. vol. 153; p. 444.
Hitch-strap. R. Bellamy. No. 950,470; Mar. 1; Sp. p. 5; Gaz. vol. 152; p. 4.
Hitching and releasing device. J. Meikle. No. 970,936; Sept. 20; Sp. p. 3835; Gaz. vol. 158; p. 654.
Hitching and releasing device. J. Robinson. No. 971,078; Sept. 27; Sp. p. 4141; Gaz. vol. 158; p. 730.
Hitching attachment, Wheeled-vehicle. W. D. P. Lowry and F. J. Walling. No. 961,976; June 21; Sp. p. 3612; Gaz. vol. 155; p. 636.
Hitching device. R. D. Gordon. No. 948,626; Feb. 8; Sp. p. 1799; Gaz. vol. 151; p. 309.
Hitching device. H. M. Reiter. No. 962,243; June 21; Sp. p. 4190; Gaz. vol. 155; p. 728.
Hitching device. A. E. Bretz. No. 968,322; Aug. 23; Sp. p. 5306; Gaz. vol. 157; p. 914.
Hitching device, Horse-. E. B. Rolfe. No. 957,380; May 10; Sp. p. 1904; Gaz. vol. 154; p. 331.
Hitching device, Stock-. E. Klemetson. No. 949,038; Feb. 15; Sp. p. 2662; Gaz. vol. 151; p. 474.
Hobby-horse. A. E. Smith. No. 948,257; Feb. 1; Sp. p. 974; Gaz. vol. 151; p. 160.
Hobby-horse. W. J. Joseph. No. 967,641; Aug. 16; Sp. p. 3840; Gaz. vol. 157; p. 659.
Hobby-horse and vehicle, Combined. F. W. Fuessel. No. 956,331; Apr. 26; Sp. p. 5740; Gaz. vol. 153; p. 999.
Hod. G. W. Fross. No. 957,604; May 10; Sp. p. 2341; Gaz. vol. 154; p. 407.
Hoe. W. J. Allin. No. 961,748; June 21; Sp. p. 3113; Gaz. vol. 155; p. 561.
Hoe. J. C. Bilsland. No. 975,320; Nov. 8; Sp. p. 2805; Gaz. vol. 160; p. 453.
Hoe. B. I. Hermanson. No. 979,299; Dec. 20; Sp. p. 4089; Gaz. vol. 161; p. 704.
Hoe, Garden-. J. H. Shaw. No. 946,566; Jan. 18; Sp. p. 3486; Gaz. vol. 150; p. 586.
Hoe, Garden-. A. Sheldon. No. 962,392; June 21; Sp. p. 4508; Gaz. vol. 155; p. 778.
Hoe, Horse-. C. T. Curtis. No. 976,641; Nov. 22; Sp. p. 5648; Gaz. vol. 160; p. 955.
Hoe, Weeding or chopping. T. J. King. No. 945,399; Jan. 4; Sp. p. 854; Gaz. vol. 150; p. 133.
Hoe, Wheel garden-. T. H. Humphreys. No. 968,477; Aug. 23; Sp. p. 5603; Gaz. vol. 157; p. 967.
Hog-catching machine. G. W. Cox. No. 955,139; Apr. 19; Sp. p. 3117; Gaz. vol. 153; p. 559.
Hog-grapple. W. D. Farrell. No. 966,676; Aug. 9; Sp. p. 1788; Gaz. vol. 157; p. 306.
Hog-hoisting machine. A. Hannaford. No. 972,186; Oct. 11; Sp. p. 1474; Gaz. vol. 159; p. 262.
Hog-holder. J. O. Bechdolt. No. 959,422; May 24; Sp. p. 6463; Gaz. vol. 154; p. 1082.
Hog-holding machine. G. W. Cox. No. 970,187; Sept. 13; Sp. p. 2226; Gaz. vol. 158; p. 379.
Hog-ringer. E. C. Tribby. No. 968,611; Aug. 30; Sp. p. 5905; Gaz. vol. 157; p. 1041.
Hog-ringer and tool, Combination. W. G. Robinson. No. 962,979; June 28; Sp. p. 5743; Gaz. vol. 155; p. 1005.
Hog-scraper. M. Deihl. No. 958,101; May 17; Sp. p. 3612; Gaz. vol. 154; p. 609.
Hog-scraping machine. W. Gussenhoven. No. 965,293; July 26; Sp. p. 4940; Gaz. vol. 156; p. 852.
Hog-trap. H. M. Sheesley. No. 980,015; Dec. 27; Sp. p. 5601; Gaz. vol. 161; p. 968.
Hog trap and loading chute. H. G. Carr. No. 963,357; July 5; Sp. p. 789; Gaz. vol. 156; p. 116.
Hog-trough. J. H. Barnhart. No. 948,839; Feb. 8; Sp. p. 2249; Gaz. vol. 151; p. 381.
Hoist. E. Y. Moore. No. 946,253; Jan. 11; Sp. p. 2736; Gaz. vol. 150; p. 455.
Hoist. K. Iwahori. No. 952,742; Mar. 22; Sp. p. 4665; Gaz. vol. 152; p. 844.
Hoist. R. Miller. No. 958,883; May 24; Sp. p. 5390; Gaz. vol. 154; p. 904.
Hoist. W. A. Hare. No. 963,435; July 5; Sp. p. 952; Gaz. vol. 156; p. 141.
Hoist and dump, Vertical. U. S. Shelly. No. 963,478; July 5; Sp. p. 1032; Gaz. vol. 156; p. 156.
Hoist, Below-surface. A. Sundh. No. 950,251; Feb. 22; Sp. p. 5253; Gaz. vol. 151; p. 921.
Hoist-brake and clutch-adjuster, Automatic. H. T. Herr. No. 971,377; Sept. 27; Sp. p. 4736; Gaz. vol. 158; p. 827.
Hoist, Electric. A. Rausch. No. 967,237; Aug. 16; Sp. p. 3020; Gaz. vol. 157; p. 522.
Hoist, Farm-. C. C. Furnberg. No. 965,806; July 26; Sp. p. 6073; Gaz. vol. 156; p. 1029.
Hoist, Fluid-actuated balanced. G. F. Steedman. No. 954,401; Apr. 5; Sp. p. 1487; Gaz. vol. 153; p. 247.
Hoist, Horse-power. A. M. Smith. No. 959,630; May 31; Sp. p. 6927; Gaz. vol. 154; p. 1179.
Hoists, Stop-motion apparatus for. A. M. Coyle. No. 959,998; May 31; Sp. p. 7744; Gaz. vol. 154; p. 1305.
Hoisting and automatic load-dumping mechanism. D. O. Jones and G. E. Roberts. No. 945,547; Jan. 4; Sp. p. 1163; Gaz. vol. 150; p. 180.
Hoisting and conveying apparatus. T. S. Miller and J. H. Dickinson. No. 947,447; Jan. 25; Sp. p. 5435; Gaz. vol. 150; p. 910.
Hoisting and conveying apparatus. F. N. Wedge. No. 955,832; Apr. 19; Sp. p. 4612; Gaz. vol. 153; p. 797.
Hoisting and conveying apparatus. A. Lambert. No. 978,312; Dec. 13; Sp. p. 1946; Gaz. vol. 161; p. 330.
Hoisting and conveying apparatus, Semiportable. A. Lambert. No. 948,281; Feb. 1; Sp. p. 1021; Gaz. vol. 151; p. 168.
Hoisting and conveying mechanism. C. A. Morris. No. 949,961; Feb. 22; Sp. p. 4589; Gaz. vol. 151; p. 820.
Hoisting and dumping mechanism. J. P. Zoller. No. 959,096; May 24; Sp. p. 5825; Gaz. vol. 154; p. 976.
Hoisting apparatus. H. Osterhaus. No. 949,595; Feb. 15; Sp. p. 3790; Gaz. vol. 151; p. 659.
Hoisting apparatus. H. E. Bowcher. No. 955,940; Apr. 26; Sp. p. 4873; Gaz. vol. 153; p. 862.
Hoisting apparatus. T. O. Werner. No. 958,049; May 17; Sp. p. 3462; Gaz. vol. 154; p. 592.
Hoisting apparatus. C. C. Michael and G. E. Cockings. No. 971,686; Oct. 4; Sp. p. 367; Gaz. vol. 159; p. 64.
Hoisting apparatus. C. W. Hunt. No. 974,385; Nov. 1; Sp. p. 691; Gaz. vol. 160; p. 104.
Hoisting apparatus. W. H. Beam. No. 974,737; Nov. 1; Sp. p. 1485; Gaz. vol. 160; p. 229.
Hoisting apparatus, Multiple. A. M. Coyle. No. 954,022; Apr. 5; Sp. p. 667; Gaz. vol. 153; p. 119.
Hoisting-bucket. V. H. Crites. No. 956,946; May 3; Sp. p. 962; Gaz. vol. 154; p. 154.
Hoisting-bucket, Bottom-dumping. A. N. Doud. No. 954,266; Apr. 5; Sp. p. 1206; Gaz. vol. 153; p. 202.
Hoisting-buckets, Means for turning. A. C. Johnston. No. 958,646; May 17; Sp. p. 4845; Gaz. vol. 154; p. 796.
Hoisting device. C. J. Burke and A. A. Shippy. No. 946,913; Jan. 18; Sp. p. 4289; Gaz. vol. 150; p. 704.
Hoisting device. E. O. Carvin. No. 957,865; May 17; Sp. p. 2893; Gaz. vol. 154; p. 525.
Hoisting device. G. F. Koenig. No. 957,969; May 17; Sp. p. 3185; Gaz. vol. 154; p. 562.
Hoisting device. S. Wright. No. 959,677; May 31; Sp. p. 7032; Gaz. vol. 154; p. 1194.
Hoisting device. W. A. Dunmire. No. 961,717; June 14; Sp. p. 3038; Gaz. vol. 155; p. 526.
Hoisting device. J. L. Sims. No. 973,572; Oct. 25; Sp. p. 4527; Gaz. vol. 159; p. 791.
Hoisting device. R. L. Lamberton. No. 975,876; Nov. 15; Sp. p. 3959; Gaz. vol. 160; p. 667.
Hoisting device. J. Owen. No. 979,691; Dec. 27; Sp. p. 4902; Gaz. vol. 161; p. 859.
Hoisting-device brake. A. Bolzani. No. 969,834; Sept. 13; Sp. p. 1500; Gaz. vol. 158; p. 258.
Hoisting-engine. J. W. Freeman. No. 373,028; Oct. 18; Sp. p. 3362; Gaz. vol. 159; p. 581.
Hoisting-machine. R. A. Ogle. No. 963,384; July 5; Sp. p. 838; Gaz. vol. 156; p. 124.
Hoisting-machine. J. A. Ecton. No. 967,353; Aug. 16; Sp. p. 3245; Gaz. vol. 157; p. 563.
Holsting mechanism. L. H. Brinkman. No. 953,192; Mar. 29; Sp. p. 5628; Gaz. vol. 152; p. 1022.
Hoisting mechanism. J. Farrell. No. 960,298; June 7; Sp. p. 114; Gaz. vol. 155; p. 22.

Hoisting mechanism. G. W. Murray. No. 962,779; June 28; Sp. p. 5364; Gaz. vol. 155; p. 937.
Hoisting mechanism. M. S. Yoder. No. 964,357; July 12; Sp. p. 2871; Gaz. vol. 156; p. 474.
Hoisting plants, Device for regulating the feeding of power in. J. Iversen. No. 962,762; June 28; Sp. p. 5333; Gaz. vol. 155; p. 932.
Hoisting-platform. C. M. Armstrong. No. 959,835; May 31; Sp. p. 7368; Gaz. vol. 154; p. 1248.
Holdback. W. J. Parvin. No. 951,839; Mar. 15; Sp. p. 2803; Gaz. vol. 152; p. 511.
Holdback. A. F. Tank. No. 968,288; Aug. 23; Sp. p. 5237; Gaz. vol. 157; p. 902.
Holder. V. M. Fuller. No. 965,512; July 26; Sp. p. 5436; Gaz. vol. 156; p. 928.
Holder and centering-tool, Combined. G. F. Wegner. No. 966,500; Aug. 9; Sp. p. 1409; Gaz. vol. 157; p. 247.
Holder-on. C. Schofield. No. 972,257; Oct. 11; Sp. p. 1632; Gaz. vol. 159; p. 287.
Holdfast device. O. Fonner. No. 973,269; Oct. 18; Sp. p. 3881; Gaz. vol. 159; p. 664.
Hollow-article mold. E. Kerr and J. Smith. No. 971,045; Sept. 27; Sp. p. 4064; Gaz. vol. 158; p. 719.
Hollow bodies, Means of producing seamless. W. Westerman. No. 976,529; Nov. 22; Sp. p. 5422; Gaz. vol. 160; p. 916.
Home-plate. W. E. Pisel. No. 948,342; Feb. 8; Sp. p. 1168; Gaz. vol. 151; p. 214.
Hone-box. T. F. Powell. No. 977,838; Dec. 6; Sp. p. 907; Gaz. vol. 161; p. 143.
Honing and stropping machine. J. D. Tipton. No. 956,001; Apr. 26; Sp. p. 5007; Gaz. vol. 153; p. 885.
Honeycomb foundation. O. M. Husted. No. 979,765; Dec. 27; Sp. p. 5080; Gaz. vol. 161; p. 885.
Hoof-knife. A. F. Kailey. No. 948,861; Feb. 8; Sp. p. 2282; Gaz. vol. 151; p. 388.
Hoof-pad. B. F. Porter. No. 964,551; July 19; Sp. p. 3327; Gaz. vol. 156; p. 569.
Hoof-pad, Adjustable. P. F. Burke. No. 964,747; July 19; Sp. p. 3834; Gaz. vol. 156; p. 638.
Hoof-pad, Yielding. A. B. and W. P. Heimbach. No. 949,358; Feb. 15; Sp. p. 3318; Gaz. vol. 151; p. 581.
Hoof-parer. E. R. Langford. No. 973,053; Oct. 18; Sp. p. 3405; Gaz. vol. 159; p. 590.
Hoof-paring machine. E. Cronin. No. 955,252; Apr. 19; Sp. p. 3366; Gaz. vol. 153; p. 599.
Hoof-plane. M. W. Harvey. No. 973,780; Oct. 25; Sp. p. 4967; Gaz. vol. 159; p. 863.
Hoof-protector. A. J. Gastlin. No. 980,094; Dec. 27; Sp. p. 5793; Gaz. vol. 161; p. 993.
Hoof-trimmer. A. G. Howard. No. 949,796; Feb. 22; Sp. p. 4215; Gaz. vol. 151; p. 761.
Hoof-trimmer. N. R. Polk. No. 973,298; Oct. 18; Sp. p. 3936; Gaz. vol. 159; p. 674.
Hook: *See* Back-band hook; Bench-hook; Boat-releasing hook; Brush-hook; Casing and tubing hook; Check-hook; Checkrein-hook; Coat and hat hook; Coupling-hook; Crib-hook; Disappearing hook; Extension-hook; Fish-hook; Fish and game hook; Garment-hook; Grab-hook; Grappling-hook; Hame-hook; Hammock-hook; Hat-hook; Hay or stevedore's hook; Lace-hook; Lacing-hook; Lantern-hook; Lock-hook; Log-hook; Log-carrier trip-hook; Mail-hook; Poultry-hook; Safety-hook; Shaft-hook; Sheep-hook; Shepherd's hook; Sister-hook; Snaffle-hook; Snap-hook; Suspension-hook; Swingletree-hook; Telephone switch-hook; Ticket or tag hook; Tubing or casing hook; Weed-hook; Well-hook; Whiffletree-hook.
Hook. O. Aikins. No. 949,014; Feb. 15; Sp. p. 2607; Gaz. vol. 151; p. 467.
Hook. J. Dovo. No. 977,716; Dec. 6; Sp. p. 667; Gaz. vol. 161; p. 102.
Hook. H. C. Brown. No. 979,926; Dec. 27; Sp. p. 5428; Gaz. vol. 161; p. 938.
Hook and eye. P. Altman and S. Feld. No. 951,098; Mar. 8; Sp. p. 1293; Gaz. vol. 152; p. 237.
Hook and eye. C. B. Patterson. No. 954,458; Apr. 12; Sp. p. 1618; Gaz. vol. 153; p. 295.
Hook and eye. E. M. Cowles. No. 958,369; May 17; Sp. p. 4304; Gaz. vol. 154; p. 703.
Hoop: *See* Barrel-hoop; Embroidery-hoop; Metal hoop.
Hoop. F. Knolle. No. 973,671; Oct. 25; Sp. p. 4754; Gaz. vol. 159; p. 826.
Hoop. J. Dupree. No. 975,679; Nov. 15; Sp. p. 3575; Gaz. vol. 160; p. 602.
Hoop-nailing horse, Lining-. H. Roberts. No. 955,905; Apr. 26; Sp. p. 4810; Gaz. vol. 153; p. 851.
Hoop-nailing jig. H. Roberts. No. 955,906; Apr. 26; Sp. p. 4812; Gaz. vol. 153; p. 851.
Hoop-setting machine. G. R. Merriman and W. C. Stevens. No. 960,365; June 7; Sp. p. 262; Gaz. vol. 155; p. 44.
Hoop sizing and clamping device. L. Gibbs. No. 958,390; May 17; Sp. p. 4352; Gaz. vol. 154; p. 710.
Hoops, bands, strips, or bars to rolls, Adjustable mechanism for feeding metal. F. F. Gregg. No. 956,525; May 3; Sp. p. 30; Gaz. vol. 154; p. 8.
Hop-extraction process. A. Nilson. No. 978,476; Dec. 13; Sp. p. 2292; Gaz. vol. 161; p. 396.
Hop-picking machine. J. Trowbridge. No. 968,001; Aug. 23; Sp. p. 4585; Gaz. vol. 157; p. 804.
Hopper. E. M. Bassler. No. 949,672; Feb. 15; Sp. p. 3925; Gaz. vol. 151; p. 684.
Hopper. T. Carroll. No. 972,678; Oct. 11; Sp. p. 2538; Gaz. vol. 159; p. 432.
Hopper, Chemical-mixing. C. A. Taber. No. 946,809; Jan. 18; Sp. p. 4030; Gaz. vol. 150; p. 669.
Hopper dredger and barge. F. Lobnitz. No. 946,059; Jan. 11; Sp. p. 2322; Gaz. vol. 150; p. 386.
Hopper, Filling-replenishing. E. S. Wood. No. 973,094; Oct. 18; Sp. p. 3488; Gaz. vol. 159; p. 603.
Hoppers, Automatic stop and waste for outside. H. C. Weitzel. No. 956,008; Apr. 26; Sp. p. 5020; Gaz. vol. 153; p. 888.
Hopple. G. Chambers. No. 953,818; Apr. 5; Sp. p. 277; Gaz. vol. 153; p. 49.
Hopple. W. E. Sell. No. 969,203; Sept. 6; Sp. p. 133; Gaz. vol. 158; p. 21.
Hopple, Halter-. J. O. Read. No. 977,547; Dec. 6; Sp. p. 306; Gaz. vol. 161; p. 45.
Horizon, Artificial. J. W. Gillie. No. 971,189; Sept. 27; Sp. p. 4372; Gaz. vol. 158; p. 767.
Horizon-gage. J. P. Tapley. No. 964,069; July 12; Sp. p. 2292; Gaz. vol. 156; p. 377.
Horizontal furnace for heating steel or iron plates, angle-irons, and the like, Combined. E. Curran. No. 974,031; Oct. 25; Sp. p. 5490; Gaz. vol. 159; p. 952.
Horn. J. Burke. No. 960,811; June 7; Sp. p. 1162; Gaz. vol. 155; p. 193.
Horn. E. Teste. No. 970,136; Sept. 13; Sp. p. 2121; Gaz. vol. 158; p. 361.
Horn. E. A. Leet. No. 972,003; Oct. 4; Sp. p. 1089; Gaz. vol. 159; p. 183.
Horn and resonator therefor, Diaphragm-actuated. M. R. Hutchison. No. 957,161; May 3; Sp. p. 1409; Gaz. vol. 154; p. 225.
Horn, Mechanical. O. C. Arlitz. No. 979,245; Dec. 20; Sp. p. 3984; Gaz. vol. 161; p. 686.
Horn, Mechanical. O. C. Arlitz. No. 979,246; Dec. 20; Sp. p. 3989; Gaz. vol. 161; p. 687.
Horn, Metal. J. A. Danis. No. 967,618; Aug. 16; Sp. p. 3798; Gaz. vol. 157; p. 652.
Horn, Reverberatory sound-. W. A. Chapman. No. 957,654; May 10; Sp. p. 2449; Gaz. vol. 154; p. 424.
Horn seam-closing mechanism, Duplex-. J. Kohke. No. 978,308; Dec. 13; Sp. p. 1933; Gaz. vol. 161; p. 338.
Horn, &c., Signaling-. M. R. Hutchison. No. 956,898; May 3; Sp. p. 864; Gaz. vol. 154; p. 138.
Horn, Sound-. A. G. Kaufman. No. 962,574; June 28; Sp. p. 4950; Gaz. vol. 155; p. 867.
Horn-support. E. L. Aiken. No. 952,225; Mar. 15; Sp. p. 3559; Gaz. vol. 152; p. 639.
Horn-supporting crane. H. Sheble. No. 970,655; Sept. 20; Sp. p. 3245; Gaz. vol. 158; p. 559.
Horns, Device for sounding motor-car. H. Beaucourt. No. 973,845; Oct. 25; Sp. p. 5104; Gaz vol. 159; p. 886.
Horse, Adjustable. C. Kamrath. No. 970,508; Sept. 20; Sp. p. 2906; Gaz. vol. 158; p. 508.
Horse-bit. A. U. Nazor. No. 978,051; Dec. 6; Sp. p. 1352; Gaz. vol. 161; p. 217.
Horse-bonnet. J. M. Davies. No. 960,840; June 7; Sp. p. 1216; Gaz. vol. 155; p. 202.
Horse-checking device. O. D. Shank. No. 961,168; June 14; Sp. p. 1872; Gaz. vol. 155; p. 340.
Horse-cleaning implement. B. Lobee. No. 977,106; Nov. 29; Sp. p. 6694; Gaz. vol. 160; p. 1140.
Horse controlling or hitching device. A. L. Harvey. No. 959,135; May 24; Sp. p. 5900; Gaz. vol. 154; p. 988.
Horse-detacher. C. B. Cummons. No. 947,376; Jan. 25; Sp. p. 5281; Gaz. vol. 150; p. 887.
Horse-detacher. S. Molnar. No. 959,373; May 24; Sp. p. 6382; Gaz. vol. 154; p. 1067.
Horse-detacher. J. E. Drew. No. 961,941; June 21; Sp. p. 3538; Gaz. vol. 155; p. 624.
Horse-detacher. E. P. Copenhaver. No. 962,942; June 28; Sp. p. 5669; Gaz. vol. 155; p. 993.
Horse-detacher. J. W. Coursey. No. 971,974; Oct. 4; Sp. p. 1034; Gaz. vol. 159; p. 172.
Horse-detacher. P. Suhr. No. 978,507; Dec. 13; Sp. p. 2354; Gaz. vol. 161; p. 406.
Horse-detacher. P. C. Day. No. 980,074; Dec. 27; Sp. p. 5741; Gaz. vol. 161; p. 987.
Horse, Folding extensible. W. Pence, C. R. Wolf, and V. O. Jarvis. No. 962,976; June 28; Sp. p. 5734; Gaz. vol. 155; p. 1004.
Horse holder and releaser, Multiple. T. C. H. Wedge. No. 962,804; June 28; Sp. p. 5421; Gaz. vol. 155; p. 947.
Horse interfering-boot. A. Schwemberger. No. 966,607; Aug. 9; Sp. p. 1660; Gaz. vol. 157; p. 283.
Horse leader and backer, Automatic. L. H. Rouviere. No. 945,285; Jan. 4; Sp. p. 580; Gaz. vol. 150; p. 95.
Horse-nostril protector. U. Anctil. No. 960,142; May 31; Sp. p. 8053; Gaz. vol. 154; p. 1353.
Horse-overshoe. J. E. MacDonald. No. 947,343; Jan. 25; Sp. p. 5209; Gaz. vol. 150; p. 877.
Horse-overshoe. B. Clow. No. 955,765; Apr. 19; Sp. p. 4479; Gaz. vol. 153; p. 773.
Horse-overshoe. A. Boyd. No. 963,506; July 5; Sp. p. 1086; Gaz. vol. 156; p. 165.
Horse-overshoe. W. H. Trabue. No. 979,602; Dec. 27; Sp. p. 4726; Gaz. vol. 161; p. 829.

Alphabetical list of inventions—Continued.

Horse-power. J. W. Broomhall. No. 963,857; July 12; Sp. p. 1870; Gaz. vol. 156; p. 306.
Horse-power loader. J. P. and J. A. Lucas. No. 958,882; May 24; Sp. p. 5389; Gaz. vol. 154; p. 904.
Horse-rake. J. T. Bell. No. 960,253; June 7; Sp. p. 19; Gaz. vol. 155; p. 7.
Horse-releaser. G. W. Huffman. No. 957,340; May 10; Sp. p. 1829; Gaz. vol. 154; p. 318.
Horse-releaser. T. Noble. No. 970,346; Sept. 13; Sp. p. 2560; Gaz. vol. 158; p. 432.
Horse-releaser. A. F. Odien and C. Dayfield. No. 972,635; Oct. 11; Sp. p. 2467; Gaz. vol. 159; p. 419.
Horse-releaser. F. Fisher. No. 978,281; Dec. 13; Sp. p. 1879; Gaz. vol. 161; p. 329.
Horse-releaser. J. S. Pitts. No. 979,332; Dec. 20; Sp. p. 4147; Gaz. vol. 161; p. 714.
Horse-releasing device. C. E. and B. Baumer, W. R. King, and M. E. Baumer. No. 967,157; Aug. 16; Sp. p. 2858; Gaz. vol. 157; p. 495.
Horse-releasing device. J. L. Miller. No. 979,322; Dec. 20; Sp. p. 4129; Gaz. vol. 161; p. 711.
Horses, Electric appliance for. J. P. Sanborn. No. 977,331; Nov. 29; Sp. p. 7151; Gaz. vol. 160; p. 1217.
Horses, mules, &c., Overshoe for. T. A. Griffith. No. 950,131; Feb. 22; Sp. p. 4994; Gaz. vol. 151; p. 878.
Horses pills, Device for giving. J. J. Grimm. No. 977,004; Nov. 29; Sp. p. 6479; Gaz. vol. 160; p. 1105.
Horses, Safety device for. R. H. Stronach. No. 972,730; Oct. 11; Sp. p. 2654; Gaz. vol. 159; p. 451.
Horsehoof appliance. C. E. Fear. No. 956,955; May 3; Sp. p. 996; Gaz. vol. 154; p. 156.
Horseshoe. R. C. Meyers. No. 945,568; Jan. 4; Sp. p. 1209; Gaz. vol. 150; p. 187.
Horseshoe. F. Clark. No. 945,910; Jan. 11; Sp. p. 2018; Gaz. vol. 150; p. 335.
Horseshoe. T. L. Hites. No. 946,131; Jan. 11; Sp. p. 2461; Gaz. vol. 150; p. 411.
Horseshoe. C. L. Funk. No. 947,327; Jan. 25; Sp. p. 5160; Gaz. vol. 150; p. 871.
Horseshoe. I. G. Owens. No. 948,245; Feb. 1; Sp. p. 949; Gaz. vol. 151; p. 156.
Horseshoe. H. T. Bacon. No. 950,426; Feb. 22; Sp. p. 5581; Gaz. vol. 151; p. 978.
Horseshoe. A. Myer. No. 952,208; Mar. 15; Sp. p. 3519; Gaz. vol. 152; p. 633.
Horseshoe. M. De Rosa. No. 952,982; Mar. 22; Sp. p. 5148; Gaz. vol. 152; p. 924.
Horseshoe. J. B. Locker. No. 957,072; May 3; Sp. p. 1231; Gaz. vol. 154; p. 195.
Horseshoe. G. Limbach. No. 957,691; May 10; Sp. p. 2529; Gaz. vol. 154; p. 437.
Horseshoe. S. Orosz. No. 957,707; May 10; Sp. p. 2558; Gaz. vol. 154; p. 443.
Horseshoe. B. Wilbur. No. 960,754; June 7; Sp. p. 1039; Gaz. vol. 155; p. 175.
Horseshoe. H. Johansen. No. 961,499; June 14; Sp. p. 2603; Gaz. vol. 155; p. 454.
Horseshoe. H. H. Peirce. No. 962,165; June 21; Sp. p. 4050; Gaz. vol. 155; p. 703.
Horseshoe. M. D. Brillhart. No. 962,812; June 28; Sp. p. 5433; Gaz. vol. 155; p. 949.
Horseshoe. W. M. R. Myers. No. 963,625; July 5; Sp. p. 1328; Gaz. vol. 156; p. 205.
Horseshoe. J. Lazarus. No. 964,438; July 12; Sp. p. 3026; Gaz. vol. 156; p. 499.
Horseshoe. W. A. Nieman. No. 965,217; July 26; Sp. p. 4778; Gaz. vol. 156; p. 826.
Horseshoe. F. Lamerson. No. 966,338; Aug. 2; Sp. p. 1021; Gaz. vol. 157; p. 165.
Horseshoe. J. H. Kieffer. No. 967,021; Aug. 9; Sp. p. 2570; Gaz. vol. 157; p. 421.
Horseshoe. A. Roth, Jr. No. 967,441; Aug. 16; Sp. p. 3432; Gaz. vol. 157; p. 592.
Horseshoe. J. Bovair and D. Rieckhoff. No. 968,116; Aug. 23; Sp. p. 4847; Gaz. vol. 157; p. 842.
Horseshoe. A. and J. Schwartz. No. 970,267; Sept. 13; Sp. p. 2418; Gaz. vol. 158; p. 407.
Horseshoe. J. H. Penhorwood. No. 970,946; Sept. 20; Sp. p. 3852; Gaz. vol. 158; p. 658.
Horseshoe. H. D. McCormick. No. 971,138; Sept. 27; Sp. p. 4251; Gaz. vol. 158; p. 749.
Horseshoe. H. Paar. No. 973,552; Oct. 25; Sp. p. 4492; Gaz. vol. 159; p. 784.
Horseshoe. F. F. Stanek. No. 976,408; Nov. 22; Sp. p. 5157; Gaz. vol. 160; p. 875.
Horseshoe. M. Klein. No. 976,579; Nov. 22; Sp. p. 5530; Gaz. vol. 160; p. 934.
Horseshoe. J. Abbs and E. Matthews. No. 977,993; Dec. 6; Sp. p. 1228; Gaz. vol. 161; p. 198.
Horseshoe. R. Barclay. No. 979,365; Dec. 20; Sp. p. 4205; Gaz. vol. 161; p. 725.
Horseshoe. O. E. Dyson. No. 979,450; Dec. 27; Sp. p. 4384; Gaz. vol. 161; p. 776.
Horseshoe and antislipping attachment. A. Kent. No. 977,882; Dec. 6; Sp. p. 1003; Gaz. vol. 161; p. 158.
Horseshoe, Antislipping. C. A. Montgomery. No. 967,540; Aug. 16; Sp. p. 3641; Gaz. vol. 157; p. 626.
Horseshoe antislipping attachment. J. J. May. No. 975,553; Nov. 15; Sp. p. 3299; Gaz. vol. 160; p. 560.
Horseshoe attachment. H. Huth. No. 957,884; May 17; Sp. p. 2936; Gaz. vol. 154; p. 531.
Horseshoe attachment. E. J. Rubrecht and P. C. Dean. No. 958,547; May 17; Sp. p. 4653; Gaz. vol. 154; p. 764.
Horseshoe attachment. N. A. Bender. No. 971,109; Sept. 27; Sp. p. 4195; Gaz. vol. 158; p. 740.
Horseshoe attachment, Emergency. A. Roth. No. 954,469; Apr. 12; Sp. p. 1649; Gaz. vol. 153; p. 299.
Horseshoe-blanks, Machine for creasing and punching. J. H. Taylor. No. 967,082; Aug. 9; Sp. p. 2694; Gaz. vol. 157; p. 442.
Horseshoe-calk. W. E. Abbott. No. 955,246; Apr. 19; Sp. p. 3351; Gaz. vol. 153; p. 597.
Horseshoe-calk. E. Huber. No. 957,212; May 10; Sp. p. 1541; Gaz. vol. 154; p. 273.
Horseshoe-calk. C. M. Delany. No. 961,759; June 21; Sp. p. 3141; Gaz. vol. 155; p. 565.
Horseshoe-calk. B. F. Wharton. No. 962,282; June 21; Sp. p. 4292; Gaz. vol. 155; p. 742.
Horseshoe-calks, Machine for facing. A. Erickson. No. 948,693; Feb. 8; Sp. p. 1932; Gaz. vol. 151; p. 332.
Horseshoe-calks, Machine for making. R. W. Comstock, Jr. No. 956,292; Apr. 26; Sp. p. 5660; Gaz. vol. 153; p. 985.
Horseshoe-calking machine. W. H. Lee, V. T. Snover, and M. H. Palmer. No. 975,366; Nov. 8; Sp. p. 2888; Gaz. vol. 160; p. 467.
Horseshoe, Cushion-padded. W. N. Gowing. No. 958,629; May 17; Sp. p. 4812; Gaz. vol. 154; p. 790.
Horseshoe, Detachable. A. Lenta. No. 964,797; July 19; Sp. p. 3943; Gaz. vol. 156; p. 655.
Horseshoe, Detachable. H. P. Wendel. No. 970,585; Sept. 20; Sp. p. 3072; Gaz. vol. 158; p. 535.
Horseshoe-machine. A. Smith. No. 948,470; Feb. 8; Sp. p. 1447; Gaz. vol. 151; p. 258.
Horseshoe-making machine. W. Peacock. No. 960,390; June 7; Sp. p. 314; Gaz. vol. 155; p. 52.
Horseshoe, Non-slipping rubber-tread. T. S. Moffett, G. F. Baker, and A. Robeson. No. 965,594; July 26; Sp. p. 5624; Gaz. vol. 156; p. 957.
Horseshoe-overshoe. J. Stanley. No. 965,663; July 26; Sp. p. 5765; Gaz. vol. 156; p. 981.
Horseshoe-pad. C. E. Pearl. No. 951,772; Mar. 8; Sp. p. 2655; Gaz. vol. 152; p. 459.
Horseshoe safety attachment. R. J. Kleiser. No. 951,534; Mar. 8; Sp. p. 2182; Gaz. vol. 152; p. 379.
Horseshoe safety device. C. E. Markowski. No. 977,812; Dec. 6; Sp. p. 856; Gaz. vol. 161; p. 134.
Horseshoe-spreader. C. Vestergaard. No. 975,810; Nov. 15; Sp. p. 3832; Gaz. vol. 160; p. 645.
Horseshoe toe-calk bar. A. T. McCreary. No. 965,119; July 19; Sp. p. 4577; Gaz. vol. 156; p. 764.
Horseshoe with elastic bridge covering both ends. E. Schmitz. No. 945,289; Jan. 4; Sp. p. 587; Gaz. vol. 150; p. 96.
Horseshoe with exchangeable calk. M. Röschmann. No. 970,954; Sept. 20; Sp. p. 3870; Gaz. vol. 158; p. 661.
Horseshoes, Apparatus for manufacturing. C. E. Pedersen. No. 953,759; Apr. 5; Sp. p. 154; Gaz. vol. 153; p. 29
Horseshoes, Flask for casting. L. A. Shaffer. No. 969,663; Sept. 6; Sp. p. 1086; Gaz. vol. 158; p. 174.
Horseshoes, Making. G. Weber. No. 965,259; July 26; Sp. p. 4867; Gaz. vol. 156; p. 841.
Horseshoes, Non-slippable attachment for. A. J. Sangster. No. 962,471; June 28; Sp. p. 4714; Gaz. vol. 155; p. 831.
Hose. P. L. Wooster. No. 956,506; Apr. 26; Sp. p. 6117; Gaz. vol. 153; p. 1059.
Hose. R. H. Brown. No. 957,492; May 10; Sp. p. 2132; Gaz. vol. 154; p. 369.
Hose. E. T. Greenfield. No. 967,901; Aug. 23; Sp. p. 4363; Gaz. vol. 157; p. 770.
Hose. E. Witzenmann. No. 973,901; Oct. 25; Sp. p. 5227; Gaz. vol. 159; p. 906.
Hose. E. T. Greenfield. No. 979,759; Dec. 27; Sp. p. 5071; Gaz. vol. 161; p. 883.
Hose. E. T. Greenfield. No. 979,760; Dec. 27; Sp. p. 5072; Gaz. vol. 161; p. 883.
Hose and pipe mender. F. J. Stulp. No. 969,919; Sept. 13; Sp. p. 1677; Gaz. vol. 158; p. 289.
Hose, Braided. H. Z. Cobb. No. 957,867; May 17; Sp. p. 2897; Gaz. vol. 154; p. 525.
Hose-bridge. A. J. Neff. No. 955,280; Apr. 19; Sp. p. 3417; Gaz. vol. 153; p. 607.
Hose-bridge. M. E. Troutt. No. 975,658; Nov. 15; Sp. p. 3525; Gaz. vol. 160; p. 595.
Hose carriage, Garden-. A. Low. No. 957,569; May 10; Sp. p. 2281; Gaz. vol. 154; p. 395.
Hose-carrier. A. P. Bolner. No. 976,774; Nov. 22; Sp. p. 5926; Gaz. vol. 160; p. 1000.
Hose-clamp. T. Harding. No. 972,372; Oct. 11; Sp. p. 1855; Gaz. vol. 159; p. 326.
Hose-clamp. M. P. McLaughlin. No. 973,532; Oct. 25; Sp. p. 4452; Gaz. vol. 159; p. 777.
Hose-clamp. J. J. Rischard. No. 978,398; Dec. 13; Sp. p. 2127; Gaz. vol. 161; p. 370.
Hose-cleaning apparatus. G. Hofmann. No. 961,858; June 21; Sp. p. 3373; Gaz. vol. 155; p. 597.
Hose, Compressive. W. J. Teufel. No. 967,585; Aug. 16; Sp. p. 3734; Gaz. vol. 157; p. 642.
Hose-connector. L. R. Nelson. No. 946,703; Jan. 18; Sp. p. 3771; Gaz. vol. 150; p. 631.
Hose construction. C. M. C. Baird. No. 979,408; Dec. 27; Sp. p. 4299; Gaz. vol. 161; p. 762.

Hose-coupling. G. B. Clay. No. 946,935; Jan. 18; Sp. p. 4330; Gaz. vol. 150; p. 711.
Hose-coupling. F. E. Thomes. No. 947,501; Jan. 25; Sp. p. 5593; Gaz. vol. 150; p. 929.
Hose-coupling. C. F. Wilson and J. Oldenburg. No. 948,437; Feb. 8; Sp. p. 1380; Gaz. vol. 151; p. 246.
Hose-coupling. E. H. Gold. No. 948,667; Feb. 8; Sp. p. 1875; Gaz. vol. 151; p. 323.
Hose-coupling. W. J. Watt. No. 949,608; Feb. 15; Sp. p. 3817; Gaz. vol. 151; p. 665.
Hose-coupling. P. Krischer. No. 951,283; Mar. 8; Sp. p. 1663; Gaz. vol. 152; p. 294.
Hose-coupling. J. H. Stephens. No. 951,516; Mar. 8; Sp. p. 2144; Gaz. vol. 152; p. 372.
Hose-coupling. H. L. Ruland. No. 953,061; Mar. 29; Sp. p. 5324; Gaz. vol. 152; p. 980.
Hose-coupling. F. G. Schaefer. No. 954,348; Apr. 5; Sp. p. 1391; Gaz. vol. 153; p. 230.
Hose-coupling. W. W. Keys. No. 959,226; May 24; Sp. p. 6090; Gaz. vol. 154; p. 1018.
Hose-coupling. E. E. Gold. No. 963,137; July 5; Sp. p. 278; Gaz. vol. 156; p. 38.
Hose-coupling. J. H. Stephens. No. 964,578; July 19; Sp. p. 3389; Gaz. vol. 156; p. 579.
Hose-coupling. J. H. Stephens. No. 964,579; July 19; Sp. p. 3393; Gaz. vol. 156; p. 580.
Hose-coupling. J. W. Ferguson. No. 965,286; July 26; Sp. p. 4926; Gaz. vol. 156; p. 850.
Hose-coupling. T. Evans. No. 965,998; Aug. 2; Sp. p. 334; Gaz. vol. 157; p. 54.
Hose-coupling. H. E. Kittredge. No. 966,925; Aug. 9; Sp. p. 2368; Gaz. vol. 157; p. 388.
Hose-coupling. W. H. Shepheard. No. 967,679; Aug. 16; Sp. p. 3912; Gaz. vol. 157; p. 671.
Hose-coupling. E. H. Wilson and S. J. Gallagher. No. 969,019; Aug. 30; Sp. p. 6767; Gaz. vol. 157; p. 1178.
Hose-coupling. J. H. Hardy. No. 969,160; Sept. 6; Sp. p. 17; Gaz. vol. 158; p. 6.
Hose-coupling. J. H. Stephens. No. 969,216; Sept. 6; Sp. p. 156; Gaz. vol. 158; p. 25.
Hose-coupling. J. L. Creveling. No. 972,829; Oct. 18; Sp. p. 2861; Gaz. vol. 159; p. 510.
Hose-coupling. L. Lancaster. No. 975,138; Nov. 8; Sp. p. 2404; Gaz. vol. 160; p. 390.
Hose-coupling. H. M. Pilkington. No. 977,472; Dec. 6; Sp. p. 95; Gaz. vol. 161; p. 18.
Hose-coupling. B. Morgan. No. 978,619; Dec. 13; Sp. p. 2616; Gaz. vol. 161; p. 446.
Hose-coupling. E. J. Hannold. No. 979,481; Dec. 27; Sp. p. 4448; Gaz. vol. 161; p. 786.
Hose coupling, Air-. E. W. Shaw. No. 957,385; May 10; Sp. p. 1914; Gaz. vol. 154; p. 333.
Hose-coupling, Automatic safety. A. H. Harris. No. 969,276; Sept. 6; Sp. p. 266; Gaz. vol. 158; p. 43.
Hose coupling, Automatic train-. J. F. McElroy. No. 959,152; May 24; Sp. p. 5938; Gaz. vol. 154; p. 994.
Hose-coupling lock. H. M. Robertson. No. 958,437; May 17; Sp. p. 4449; Gaz. vol. 154; p. 726.
Hose-coupling lock. H. M. Robertson. No. 958,438; May 17; Sp. p. 4450; Gaz. vol. 154; p. 727.
Hose-coupling, Swivel. J. Shotwell. No. 961,170; June 14; Sp. p. 1876; Gaz. vol. 155; p. 340.
Hose-coupling, Threadless. H. Kell. No. 978,029; Dec. 6; Sp. p. 1305; Gaz. vol. 161; p. 209.
Hose-couplings, Attachment to be used in connection with. J. F. W. Jost. No. 953,422; Mar. 29; Sp. p. 6125; Gaz. vol. 152; p. 1100.
Hose-couplings, Gasket for. C. M. Clay. No. 979,433; Dec. 27; Sp. p. 4340; Gaz. vol. 161; p. 770.
Hose-drier. F. A. Hoyt. No. 976,656; Nov. 22; Sp. p. 5683; Gaz. vol. 160; p. 961.
Hose-gate. A. T. Miner. No. 950,111; Feb. 22; Sp. p. 4951; Gaz. vol. 151; p. 871.
Hose-holder. T. Boeson. No. 957,930; May 17; Sp. p. 3050; Gaz. vol. 154; p. 548.
Hose-holder. L. A. Trope. No. 966,625; Aug. 9; Sp. p. 1697; Gaz. vol. 157; p. 289.
Hose-holder. D. F. Regan. No. 973,810; Oct. 25; Sp. p. 5027; Gaz. vol. 159; p. 874.
Hose holder, Garden-. J. Jaeger. No. 961,297; June 14; Sp. p. 2161; Gaz. vol. 155; p. 386.
Hose-jacket. W. C. Shepard. No. 948,772; Feb. 8; Sp. p. 2116; Gaz. vol. 151; p. 359.
Hose-nozzle. W. H. Perkins. No. 945,410; Jan. 4; Sp. p. 882; Gaz. vol. 150; p. 137.
Hose-nozzle. H. Gibbs. No. 963,136; July 5; Sp. p. 276; Gaz. vol. 156; p. 38.
Hose-nozzle support. C. V. Hoover. No. 961,234; June 14; Sp. p. 2018; Gaz. vol. 155; p. 364.
Hose-nozzle support, Fire-. J. J. Meskill. No. 949,327; Feb. 15; Sp. p. 3240; Gaz. vol. 151; p. 570.
Hose-pipe-connection closure. G. R. Chamberlain, A. G. Schroeder, and A. A. McLeod. No. 495,753; Jan. 11; Sp. p. 1658; Gaz. vol. 150; p. 278.
Hose-pipe nozzles, Attachment for. J. W. Kelley. No. 952,530; Mar. 22; Sp. p. 4193; Gaz. vol. 152; p. 770.
Hose-pipes, End connection for metallic. E. Witzenmann. No. 959,187; May 24; Sp. p. 6016; Gaz. vol. 154; p. 1005.
Hose-protector. R. D. Weakley. No. 951,552; Mar. 8; Sp. p. 2219; Gaz. vol. 152; p. 385.
Hose-rack. C. H. Fish. No. 946,575; Jan. 18; Sp. p. 3503; Gaz. vol. 150; p. 589.
Hose-rack. G. Bennett. No. 965,432; July 26; Sp. p. 5254; Gaz. vol. 156; p. 899.
Hose-rack, Self-releasing. S. L. Crossing. No. 970,188; Sept. 13; Sp. p. 2229; Gaz. vol. 158; p. 379.
Hose-reel. B. H. Montgomery, W. A. Gray, and A. S. Chapin. No. 946,681; Jan. 18; Sp. p. 3733; Gaz. vol. 150; p. 624.
Hose-reel. W. L. Paul. No. 972,222; Oct. 11; Sp. p. 1569; Gaz. vol. 159; p. 275.
Hose-reel. S. M. Marshall. No. 975,147; Nov. 8; Sp. p. 2420; Gaz. vol. 160; p. 393.
Hose-reel. G. M. Hughes. No. 975,245; Nov. 8; Sp. p. 2647; Gaz. vol. 160; p. 427.
Hose reel and spray, Water-. W. H. Merithew. No. 973,286; Oct. 18; Sp. p. 3912; Gaz. vol. 159; p. 669.
Hose-reel, Valve-operating. I. E. Williams. No. 966,504; Aug. 9; Sp. p. 1416; Gaz. vol. 157; p. 248.
Hose, Spiral metallic. E. Witzenmann and E. Stein. No. 967,260; Aug. 16; Sp. p. 3063; Gaz. vol. 157; p. 531.
Hose, Steam-. W. T. Bonner. No. 945,686; Jan. 4; Sp. p. 1451; Gaz. vol. 150; p. 227.
Hose-support. J. E. Austin. No. 970,164; Sept. 13; Sp. p. 2176; Gaz. vol. 158; p. 371.
Hose-supporter W. M. Titus, F. H. Clarkson, and J. C. Andrews. No. 956,232; Apr. 26; Sp. p. 5534; Gaz. vol. 153; p. 965.
Hose-supporter. B. Ortell. No. 958,425; May 17; Sp. p. 4413; Gaz. vol. 154; p. 722.
Hose-supporter. P. R. Duchemin. No. 961,112; June 14; Sp. p. 1762; Gaz. vol. 155; p. 320.
Hose-supporter. M. Finkelstein. No. 961,593; June 14; Sp. p. 2804; Gaz. vol. 155; p. 484.
Hose-supporter. L. H. Zeigler. No. 968,628; Aug. 30; Sp. p. 5942; Gaz. vol. 157; p. 1046.
Hose-supporter. C. Kaufmann and W. H. Thomas. No. 974,071; Oct. 25; Sp. p. 5568; Gaz. vol. 159; p. 965.
Hose-supporter. R. H. Klauder. No. 975,364; Nov. 8; Sp. p. 2884; Gaz. vol. 160; p. 466.
Hose-supporter. E. D. Lowry. No. 977,024; Nov. 29; Sp. p. 6518; Gaz. vol. 160; p. 1112.
Hose-supporter. J. H. Johnson. No. 978,592; Dec. 13; Sp. p. 2561; Gaz. vol. 161; p. 437.
Hose-supporter. R. H. and R. J. Brown. No. 979,254; Dec. 20; Sp. p. 4008; Gaz. vol. 161; p. 689.
Hose-supporter belt. D. Kops. No. 961,501; June 14; Sp. p. 2605; Gaz. vol. 155; p. 454.
Hose-supporter clasp. W. H. Pumphrey. No. 965,935; Aug. 2; Sp. p. 182; Gaz. vol. 157; p. 31.
Hose supporter, Garden-. A. Getman. No. 955,260; Apr. 19; Sp. p. 3381; Gaz. vol. 153; p. 602.
Hose supporter, Half-. F. H. Seeley. No. 976,505; Nov. 22; Sp. p. 5355; Gaz. vol. 160; p. 908.
Hosiery. L. A. Costello. No. 976,555; Nov. 22; Sp. p. 5477; Gaz. vol. 160; p. 925.
Hosiery, Clamp for holding forms or stretchers for. A. C. Beck. No. 955,627; Apr. 19; Sp. p. 4171; Gaz. vol. 153; p. 726.
Hosiery form and holder. J. Huebsch. No. 971,844; Oct. 4; Sp. p. 700; Gaz. vol. 159; p. 123.
Hot-air furnace. L. Howard. No. 953,465; Mar. 29; Sp. p. 6212; Gaz. vol. 152; p. 1114.
Hot-air furnace. W. A. Wallace. No. 966,064; Aug. 2; Sp. p. 479; Gaz. vol. 157; p. 77.
Hot-air furnace. J. Akerstream and J. H. Ferguson. No. 966,878; Aug. 9; Sp. p. 2272; Gaz. vol. 157; p. 372.
Hot-air motor. G. Mann. No. 966,032; Aug. 2; Sp. p. 410; Gaz. vol. 157; p. 65.
Hot-air register. C. Clear. No. 947,634; Jan. 25; Sp. p. 5866; Gaz. vol. 150; p. 974.
Hot-air register. G. G. Lewis. No. 966,842; Aug. 9; Sp. p. 2195; Gaz. vol. 157; p. 361.
Hot-water apparatus. D. C. Seymour. No. 964,941; July 19; Sp. p. 4226; Gaz. vol. 156; p. 706.
Hot-water boiler. W. H. Geis. No. 978,365; Dec. 13; Sp. p. 2045; Gaz. vol. 161; p. 357.
Hot-water furnace. D. J. Archer. No. 946,310; Jan. 11; Sp. p. 2867; Gaz. vol. 150; p. 475.
Hot-water heater. W. H. Bright. No. 946,836; Jan. 18; Sp. p. 4101; Gaz. vol. 150; p. 678.
Hot-water heater. M. J. Selzer. No. 965,758; July 26; Sp. p. 5965; Gaz. vol. 156; p. 1014.
Hot-water heater. J. Cooper. No. 968,451; Aug. 23; Sp. p. 5533; Gaz. vol. 157; p. 958.
Hot-water heater. J. C. Meem. No. 969,714; Sept. 6; Sp. p. 1181; Gaz. vol. 158; p. 192.
Hot-water heater and circulator. J. Kephart. No. 974,890; Nov. 8; Sp. p. 1832; Gaz. vol. 160; p. 305.
Hot-water storage, System of. R. V. Jones. No. 979,507; Dec. 27; Sp. p. 4501; Gaz. vol. 161; p. 795.
Hotbed drag-out. R. H. Stevens. No. 959,813; May 31; Sp. p. 7319; Gaz. vol. 154; p. 1240.
Hotel-corridor lock. N. B. Hurd. No. 974,666; Nov. 1; Sp. p. 1333; Gaz. vol. 160; p. 207.
Hotel-indicator. R. G. Zabalan. No. 955,491; Apr. 19; Sp. p. 3875; Gaz. vol. 153; p. 681.
Hotel-lock. A. Arens. No. 950,315; Feb. 22; Sp. p. 5373; Gaz. vol. 151; p. 943.
Hotel-lock. A. Arens and E. L. Teich. No. 958,352; May 17; Sp. p. 4271; Gaz. vol. 154; p. 697.

Alphabetical list of inventions—Continued.

House: *See* Bird-house; Malt-house; Portable house; Poultry-house; Smoke-house; Toy house.
House-cooling and lawn-sprinkling device. W. A. Crawford-Frost. No. 964,464; July 12; Sp. p. 3084; Gaz. vol. 156; p. 507.
House-cooling apparatus. M. Leblanc. No. 967,024; Aug. 9; Sp. p. 2574; Gaz. vol. 157; p. 422.
Hub-attaching device. E. J. Spähr. No. 979,105; Dec. 20; Sp. p. 3665; Gaz. vol. 161; p. 636.
Hub, Automobile spring-. S. T. Boyd. No. 948,388; Feb. 8; Sp. p. 1287; Gaz. vol. 151; p. 231.
Hub, Automobile wheel-. C. T. Hixson and A. L. Tarrant. No. 976,802; Nov. 22; Sp. p. 5975; Gaz. vol. 160; p. 1009.
Hub, Balanced wheel-. L. E. Sturdevant. No. 966,617; Aug. 9; Sp. p. 1675; Gaz. vol. 157; p. 286.
Hub-fastener. A. E. Roxberg. No. 970,646; Sept. 20; Sp. p. 3228; Gaz. vol. 158; p. 556.
Hub, Metal wheel-. G. Mannes. No. 946,640; Jan. 18; Sp. p. 3646; Gaz. vol. 150; p. 611.
Hub, Variable-speed coasting and braking. A. F. Rockwell. No. 962,245; June 21; Sp. p. 4195; Gaz. vol. 155; p. 729.
Hub, Vehicle-. P. A. Eddleman. No. 955,060; Apr. 12; Sp. p. 2960; Gaz. vol. 153; p. 502.
Hub, Vehicle-wheel. R. L. Harrell. No. 974,662; Nov. 1; Sp. p. 1326; Gaz. vol. 160; p. 206.
Hub, Wheel-. G. W. Grooms. No. 949,928; Feb. 22; Sp. p. 4528; Gaz. vol. 151; p. 808.
Hub, Wheel-. W. W. Cork. No. 956,041; Apr. 26; Sp. p. 5091; Gaz. vol. 153; p. 899.
Hub, Wheel-. C. L. Johnson. No. 959,015; May 24; Sp. p. 5642; Gaz. vol. 154; p. 948.
Huller: *See* Clover-huller; Cotton-huller; Grain-huller; Pea-huller; Seed-huller.
Human bodies, Instrument for determining the position of an organ or the like within. J. Gillet. (Reissue.) No. 13,089; Mar. 8; Sp. p. 2698; Gaz. vol. 152; p. 465.
Humidifier. J. Kelly. No. 947,040; Jan. 18; Sp. p. 4527; Gaz. vol. 150; p. 746.
Humidifier. J. W. Fries. No. 947,300; Jan. 25; Sp. p. 5094; Gaz. vol. 150; p. 860.
Humidifier. J. W. Fries. No. 947,301; Jan. 25; Sp. p. 5098; Gaz. vol. 150; p. 861.
Humidifier. F. B. Comins. No. 952,234; Mar. 15; Sp. p. 3573; Gaz. vol. 152; p. 642.
Humidifier. J. Kelly. No. 956,103; Apr. 26; Sp. p. 5231; Gaz. vol. 153; p. 920.
Humidifier. J. W. Fries. No. 957,197; May 10; Sp. p. 1491; Gaz. vol. 154; p. 266.
Humidifier. E. Maxwell. No. 957,430; May 10; Sp. p. 2014; Gaz. vol. 154; p. 348.
Humidifier. R. P. Smith. No. 958,555; May 17; Sp. p. 4666; Gaz. vol. 154; p. 767.
Humidifier. J. W. Fries. No. 969,854; Sept. 13; Sp. p. 1542; Gaz. vol. 158; p. 265.
Humidifying apparatus. F. W. Parks. No. 968,074; Aug. 23; Sp. p. 4760; Gaz. vol. 157; p. 828.
Humidifying apparatus. W. H. Carrier. No. 971,248; Sept. 27; Sp. p. 4498; Gaz. vol. 158; p. 787.
Humidifying apparatus for dwelling-houses. A. W. Thompson. No. 963,829; July 12; Sp. p. 1807; Gaz. vol. 156; p. 297.
Humidity-regulator. E. W. Comfort. No. 977,933; Dec. 6; Sp. p. 1109; Gaz. vol. 161; p. 177.
Humidor. J. J. Deeming. No. 950,689; Mar. 1; Sp. p. 482; Gaz. vol. 152; p. 78.
Humidor. L. Kahn. No. 953,841; Apr. 5; Sp. p. 321; Gaz. vol. 153; p. 57.
Humidor. G. H. Lee. No. 963,592; July 5; Sp. p. 1267; Gaz. vol. 156; p. 194.
Humidor. C. B. Carstens. No. 976,150; Nov. 22; Sp. p. 4524; Gaz. vol. 160; p. 784.
Hunting-knife. C. Romano. No. 947,980; Feb. 1; Sp. p. 422; Gaz. vol. 151; p. 67.
Hurdle. W. S. Tothill. No. 974,613; Nov. 1; Sp. p. 1218; Gaz. vol. 160; p. 188.
Husking and shredding machine. A. Rosenthal. No. 947,562; Jan. 25; Sp. p. 5712; Gaz. vol. 150; p. 948.
Husking-bench, Portable. R. E. Lippincott. No. 969,069; Aug. 30; Sp. p. 6871; Gaz. vol. 157; p. 1196.
Husking-roll. C. C. Crum. No. 970,610; Sept. 20; Sp. p. 3121; Gaz. vol. 158; p. 544.
Husking-roll tooth. T. L. Brumback. No. 947,787; Feb. 1; Sp. p. 21; Gaz. vol. 151; p. 6.
Hydrant. H. Lunceford. No. 947,184; Jan. 18; Sp. p. 4801; Gaz. vol. 150; p. 791.
Hydrant. A. A. Bennett. No. 958,079; May 17; Sp. p. 3569; Gaz. vol. 154; p. 601.
Hydrant. J. W. Stevenson. No. 968,711; Aug. 30; Sp. p. 6155; Gaz. vol. 157; p. 1075.
Hydrant. G. E. Kellar and E. O. Thomason. No. 972,384; Oct. 11; Sp. p. 1879; Gaz. vol. 159; p. 330.
Hydrant. P. E. Apgar and J. J. Silk. No. 977,426; Dec. 6; Sp. p. 2; Gaz. vol. 161; p. 3.
Hydrant and hose cut-off valve. F. S. Seagrave. No. 961,901; June 21; Sp. p. 3453; Gaz. vol. 155; p. 611.
Hydrant and valve therefor. J. L. Fuller. No. 979,941; Dec. 27; Sp. p. 5460; Gaz. vol. 161; p. 943.
Hydrant attachment. W. H. Wileman. No. 959,092; May 24; Sp. p. 5817; Gaz. vol. 154; p. 975.
Hydrant-cap. W. S. Reed. No. 969,905; Sept. 13; Sp. p. 1645; Gaz. vol. 158; p. 284.
Hydrant-casing. H. P. James. No. 964,784; July 19; Sp. p. 3920; Gaz. vol. 156; p. 651.
Hydrated sodium carbonate and sodium tannate, Composition of. W. E. Ridenour. No. 958,893; May 24; Sp. p. 5415; Gaz. vol. 154; p. 908.
Hydraulic chair. E. Melchior. No. 974,289; Nov. 1; Sp. p. 476; Gaz. vol. 160; p. 70.
Hydraulic chair. E. Melchior. No. 975,705; Nov. 15; Sp. p. 3617; Gaz. vol. 160; p. 610.
Hydraulic chair. M. Hanson. No. 977,736; Dec. 6; Sp. p. 698; Gaz. vol. 161; p. 109.
Hydraulic compress. R. D. and S. J. Webb. No. 952,853; Mar. 22; Sp. p. 4901; Gaz. vol. 152; p. 882.
Hydraulic coupling. V. Tichomiroff and L. Schechter. No. 973,893; Oct. 25; Sp. p. 5210; Gaz. vol. 159; p. 904.
Hydraulic elevator. N. P. Julien. No. 946,781; Jan. 18; Sp. p. 3952; Gaz. vol. 150; p. 657.
Hydraulic elevator, Plunger. T. Larsson. No. 963,905; July 12; Sp. p. 1955; Gaz. vol. 156; p. 321.
Hydraulic giant. S. L. Berry. No. 978,107; Dec. 6; Sp. p. 1470; Gaz. vol. 161; p. 237.
Hydraulic indicator. R. B. Fryett and H. H. Botten. No. 954,727; Apr. 12; Sp. p. 2230; Gaz. vol. 153; p. 387.
Hydraulic intensifier. W. T. Sears. No. 966,059; Aug. 2; Sp. p. 470; Gaz. vol. 157; p. 75.
Hydraulic jack. E. A. Gathmann. No. 947,613; Jan. 25; Sp. p. 5824; Gaz. vol. 150; p. 967.
Hydraulic jack. R. W. Baker. No. 957,177; May 10; Sp. p. 1458; Gaz. vol. 154; p. 260.
Hydraulic jack. B. Worthington. No. 971,714; Oct. 4; Sp. p. 423; Gaz. vol. 159; p. 74.
Hydraulic motor. G. B. French. No. 960,876; June 7; Sp. p. 1281; Gaz. vol. 155; p. 214.
Hydraulic motor. P. T. Coffield. No. 962,623; June 28; Sp. p. 5047; Gaz. vol. 155; p. 882.
Hydraulic motor. P. Andersen. No. 972,981; Oct. 18; Sp. p. 3250; Gaz. vol. 159; p. 565.
Hydraulic motor. I. C. Walker. No. 973,088; Oct. 18; Sp. p. 3476; Gaz. vol. 159; p. 601.
Hydraulic motor. W. C. Kelly. No. 979,511; Dec. 27; Sp. p. 4513; Gaz. vol. 161; p. 796.
Hydraulic-power plant. J. T. Dougine. No. 970,196; Sept. 13; Sp. p. 2256; Gaz. vol. 158; p. 382.
Hydraulic-power system. T. A. Macdonald. No. 969,967; Sept. 13; Sp. p. 1787; Gaz. vol. 158; p. 303.
Hydraulic press. H. J. Bellamy. No. 956,752; May 3; Sp. p. 546; Gaz. vol. 154; p. 87.
Hydraulic press. J. M. Gamewell and J. A. Kirby. No. 966,191; Aug. 2; Sp. p. 750; Gaz. vol. 157; p. 118.
Hydraulic press. P. Brandt. No. 967,166; Aug. 16; Sp. p. 2876; Gaz. vol. 157; p. 498.
Hydraulic press. F. H. Stillman. No. 968,999; Aug. 30; Sp. p. 6726; Gaz. vol. 157; p. 1171.
Hydraulic press. F. Phelps. No. 975,994; Nov. 15; Sp. p. 4182; Gaz. vol. 160; p. 709.
Hydraulic safety-clamp. M. Garvey. No. 965,807; July 26; Sp. p. 6074; Gaz. vol. 156; p. 1030.
Hydrocarbon-burner. J. C. Colligan. No. 945,695; Jan. 4; Sp. p. 1465; Gaz. vol. 150; p. 229.
Hydrocarbon-burner. C. M. Rork. No. 946,581; Jan. 18; Sp. p. 3511; Gaz. vol. 150; p. 591.
Hydrocarbon-burner. D. W. Young, Jr. No. 949,167; Feb. 15; Sp. p. 2915; Gaz. vol. 151; p. 517.
Hydrocarbon-burner. A. B. Bruner. No. 949,214; Feb. 15; Sp. p. 2997; Gaz. vol. 151; p. 532.
Hydrocarbon-burner. J. L. Henry. No. 952,194; Mar. 15; Sp. p. 3483; Gaz. vol. 152; p. 627.
Hydrocarbon-burner. J. C. Kenmonth. No. 953,147; Mar. 29; Sp. p. 5530; Gaz. vol. 152; p. 1008.
Hydrocarbon-burner. L. A. Sherman. No. 953,441; Mar. 29; Sp. p. 6164; Gaz. vol. 152; p. 1106.
Hydrocarbon-burner. S. L. Davis. No. 954,380; Apr. 5; Sp. p. 1444; Gaz. vol. 153; p. 240.
Hydrocarbon-burner. E. G. Wickersham. No. 958,344; May 17; Sp. p. 4256; Gaz. vol. 154; p. 694.
Hydrocarbon-burner. T. H. Clark and J. H. Nequette. No. 958,692; May 17; Sp. p. 4932; Gaz. vol. 154; p. 810.
Hydrocarbon-burner. B. L. Worthen. No. 958,789; May 24; Sp. p. 5165; Gaz. vol. 154; p. 870.
Hydrocarbon-burner. J. E. Walling and A. Olson. No. 958,947; May 24; Sp. p. 5512; Gaz. vol. 154; p. 926.
Hydrocarbon-burner. O. Fordice. No. 958,999; May 24; Sp. p. 5617; Gaz. vol. 154; p. 943.
Hydrocarbon-burner. L. A. Sherman. No. 960,722; June 7; Sp. p. 981; Gaz. vol. 155; p. 163.
Hydrocarbon-burner. I. L. Owens. No. 963,010; June 28; Sp. p. 5801; Gaz. vol. 155; p. 1016.
Hydrocarbon-burner. A. C. Williams. No. 963,969; July 12; Sp. p. 2091; Gaz. vol. 156; p. 342.
Hydrocarbon-burner. W. N. Best, Jr. No. 963,985; July 12; Sp. p. 2125; Gaz. vol. 156; p. 348.
Hydrocarbon-burner. F. R. and N. Blount. No. 967,315; Aug. 16; Sp. p. 3171; Gaz. vol. 157; p. 549.
Hydrocarbon-burner. W. W. Case, Sr. No. 971,489; Sept. 27; Sp. p. 4934; Gaz. vol. 158; p. 864.
Hydrocarbon-burner. G. J. McPherson. No. 972,014; Oct. 4; Sp. p. 1109; Gaz. vol. 159; p. 186.
Hydrocarbon-burner. W. M. Green. No. 977,186; Nov. 29; Sp. p. 6886; Gaz. vol. 160; p. 1169.

Hydrocarbon-burner. W. Dietz. No. 978,860; Dec. 20; Sp. p. 3092; Gaz. vol. 161; p. 548.
Hydrocarbon burner, Fluid-. D. P. Moore. No. 968,252; Aug. 23; Sp. p. 5160; Gaz. vol. 157; p. 889.
Hydrocarbon-burning apparatus, Liquid-. L. K. Leahy. No. 964,031; July 12; Sp. p. 2215; Gaz. vol. 156; p. 365.
Hydrocarbon for combustion, Preparing liquid. E. J. Wiggins. No. 964,893; July 19; Sp. p. 4139; Gaz. vol. 156; p. 689.
Hydrocarbon-furnace. A. O. Bradford. No. 953,685; Apr. 5; Sp. p. 13; Gaz. vol. 153; p. 5.
Hydrocarbon injector-burner. E. J. Achée. No. 945,899; Jan. 11; Sp. p. 1998; Gaz. vol. 150; p. 331.
Hydrocarbon mixtures, Producing and burning combustible. R. H. White. No. 974,730; Nov. 1; Sp. p. 1475; Gaz. vol. 160; p. 227.
Hydrocarbon vaporizer and burner. C. Mendell. No. 975,557; Nov. 15; Sp. p. 3304; Gaz. vol. 160; p. 561.
Hydroextractor. C. Miller. No. 970,253; Sept. 13; Sp. p. 2390; Gaz. vol. 158; p. 402.
Hydrogen, Composition of matter for and method of generating. H. Foersterling and H. Philipp. No. 977,442; Dec. 6; Sp. p. 28; Gaz. vol. 161; p. 8.
Hydrogen from water-gas, Producing. A. Frank. No. 964,415; July 12; Sp. p. 2982; Gaz. vol. 156; p. 492.
Hydrogen peroxid, Stable mixture for producing. R. Grüter and H. Pohl. No. 975,129; Nov. 8; Sp. p. 2389; Gaz. vol. 160; p. 387.
Hydrogen peroxid, Stable mixture for producing. R. Grüter and H. Pohl. No. 975,353; Nov. 8; Sp. p. 2867; Gaz. vol. 160; p. 463.
Hydrogen peroxid, Stable mixture for producing. R. Grüter and H. Pohl. No. 975,354; Nov. 8; Sp. p. 2868; Gaz. vol. 160; p. 463.
Hydrogen, Producing. A. Messerschmitt. No. 971,206; Sept. 27; Sp. p. 4405; Gaz. vol. 158; p. 773.
Hydrographic apparatus. O. Evensen. No. 967,623; Aug. 16; Sp. p. 3805; Gaz. vol. 157; p. 654.
Hydrometer. J. Ely. No. 964,628; July 19; Sp. p. 3488; Gaz. vol. 156; p. 596.
Hydrosulfite compound and making same. A. Weindel. No. 961,391; June 14; Sp. p. 2361; Gaz. vol. 155; p. 417.
Hydroxid, Making solutions of cuprammonium. A. Lecoeur. No. 947,715; Jan. 25; Sp. p. 6009; Gaz. vol. 150; p. 1000.
Hydroxyl derivatives of aromatic hydrocarbons soluble in water, Rendering. A. Friedlaender. No. 966,820; Aug. 9; Sp. p. 2152; Gaz. vol. 157; p. 854.
Hygrometer for regulating humidifying and heating systems. S. W. Cramer and W. B. Hodge. No. 956,296; Apr. 26; Sp. p. 5669; Gaz. vol. 153; p. 987.
Hygrometer for regulating humidifying and heating systems. S. W. Cramer and W. B. Hodge. No. 968,133; Aug. 23; Sp. p. 4884; Gaz. vol. 157; p. 848.
Hypodermic needle. P. J. McElroy. No. 950,822; Mar. 1; Sp. p. 779; Gaz. vol. 152; p. 124.
Hypsometer. F. G. Plummer. No. 950,805; Mar. 1; Sp. p. 745; Gaz. vol. 152; p. 119.
I-beam and the like. G. A. Lund. No. 963,162; July 5; Sp. p. 341; Gaz. vol. 156; p. 49.
Ice and snow from the third rails of electric railways, Apparatus for clearing. A. J. Simon. No. 964,125; July 12; Sp. p. 2419; Gaz. vol. 156; p. 397.
Ice, Apparatus for making artificial. W. B. Bull. No. 948,131; Feb. 1; Sp. p. 722; Gaz. vol. 151; p. 119.
Ice, Apparatus for the manufacture of plate-. W. H. Llewellyn and A. G. Olney. No. 974,162; Nov. 1; Sp. p. 110; Gaz. vol. 160; p. 22.
Ice-box. T. J. Elder. No. 973,416; Oct. 18; Sp. p. 4200; Gaz. vol. 159; p. 715.
Ice-chipping machine. W. Z. and F. P. Dalgety. No. 957,038; May 3; Sp. p. 1166; Gaz. vol. 154; p. 185.
Ice-chopper. A. Price. No. 956,412; Apr. 26; Sp. p. 5902; Gaz. vol. 153; p. 1026.
Ice-cream-cone dipper. A. J. Daniel. No. 953,901; Apr. 5; Sp. p. 432; Gaz. vol. 153; p. 78.
Ice-cream-cone holder. J. F. Reid. No. 948,524; Feb. 8; Sp. p. 1570; Gaz. vol. 151; p. 277.
Ice-cream-cone oven. L. H. Lanier. No. 964,873; July 19; Sp. p. 4093; Gaz. vol. 156; p. 682.
Ice-cream-cone protector. W. L. Mason. No. 965,920; Aug. 2; Sp. p. 153; Gaz. vol. 157; p. 26.
Ice-cream cutter. W. A. Hutchison. No. 972,621; Oct. 11; Sp. p. 2432; Gaz. vol. 159; p. 415.
Ice-cream disher. H. Bieder. No. 954,498; Apr. 12; Sp. p. 1718; Gaz. vol. 153; p. 308.
Ice-cream disher. E. A. Erickson. No. 964,225; July 12; Sp. p. 2607; Gaz. vol. 156; p. 429.
Ice-cream freezer. J. C. Miller. No. 945,570; Jan. 4; Sp. p. 1214; Gaz. vol. 150; p. 188.
Ice-cream freezer. E. I. Young. No. 949,692; Feb. 15; Sp. p. 3966; Gaz. vol. 151; p. 691.
Ice-cream freezer. G. F. Dickson. No. 952,031; Mar. 15; Sp. p. 3194; Gaz. vol. 152; p. 574.
Ice-cream freezer. A. H. Mace. No. 952,339; Mar. 15; Sp. p. 3789; Gaz. vol. 152; p. 678.
Ice-cream freezer. G. W. Poillon. No. 954,411; Apr. 5; Sp. p. 1514; Gaz. vol. 153; p. 251.
Ice-cream freezer. B. Kuhl. No. 960,346; June 7; Sp. p. 220; Gaz. vol. 155; p. 38.
Ice-cream freezer. T. J. Harton. No. 966,912; Aug. 9; Sp. p. 2337; Gaz. vol. 157; p. 384.
Ice-cream freezer. M. M. Dickinson. No. 967,003; Aug. 9; Sp. p. 2523; Gaz. vol. 157; p. 415.
Ice-cream freezer. W. B. McCann. No. 967,221; Aug. 16; Sp. p. 2981; Gaz. vol. 157; p. 517.
Ice-cream freezer. J. Willmann. No. 969,016; Aug. 30; Sp. p. 6757; Gaz. vol. 157; p. 1177.
Ice-cream freezer. C. K. Greaves. No. 970,369; Sept. 13; Sp. p. 2609; Gaz. vol. 158; p. 440.
Ice-cream freezer. T. J. Harton. No. 971,888; Oct. 4; Sp. p. 811; Gaz. vol. 159; p. 140.
Ice-cream freezer. R. C. Eldridge and D. C. Breed. No. 974,761; Nov. 1; Sp. p. 1545; Gaz. vol. 160; p. 238.
Ice-cream freezer. W. C. Broadwell. No. 979,823; Dec. 27; Sp. p. 5214; Gaz. vol. 161; p. 904.
Ice-cream-freezer dasher. M. Obrynoweech. No. 976,684; Nov. 22; Sp. p. 5720; Gaz. vol. 160; p. 968.
Ice-cream freezers, Securing device for. J. G. Kirkpatrick. No. 951,007; Mar. 1; Sp. p. 1121; Gaz. vol. 152; p. 181.
Ice-cream-freezing machine. A. W. Davis. No. 967,503; Aug. 16; Sp. p. 3576; Gaz. vol. 157; p. 613.
Ice-cream machine. F. P. Miller. No. 970,846; Sept. 20; Sp. p. 3665; Gaz. vol. 158; p. 626.
Ice-cream-making machine. J. Willmann. No. 963,675; July 5; Sp. p. 1414; Gaz. vol. 156; p. 222.
Ice-cream, sherbet, &c., Manufacturing. G. D. Burton. No. 976,780; Nov 22; Sp. p. 5939; Gaz. vol. 160; p. 1002.
Ice-cream spoon. D. H. Mosteller. No. 951,571; Mar. 8; Sp. p. 2249; Gaz. vol. 152; p. 391.
Ice-cream spoon. W. B. Hogan. No. 968,945; Aug. 30; Sp. p. 6621; Gaz. vol. 157; p. 1153.
Ice-cream spoon. D. H. Mosteller. (Reissue.) No. 13,170; Nov. 22; Sp. p. 6039; Gaz. vol. 160; p. 1021.
Ice-cream spoon. J. Geier. No. 977,382; Nov. 29; Sp. p. 7279; Gaz. vol. 160; p. 1236.
Ice-creeper. J. Gregory. No. 946,543; Jan. 18; Sp. p. 3451; Gaz. vol. 150; p. 580.
Ice-creeper. C. C. Matz. No. 947,414; Jan. 25; Sp. p. 5368; Gaz. vol. 150; p. 900.
Ice-crushing implement. C. Waldvogel. No. 970,863; Sept. 20; Sp. p. 3703; Gaz. vol. 158; p. 632.
Ice-cutting machine. P. Susol. No. 950,969; Mar. 1; Sp. p. 1063; Gaz. vol. 152; p. 170.
Ice-cutting machine. K. H. Ladegard. No. 953,625; Mar. 29; Sp. p. 6551; Gaz. vol. 152; p. 1170.
Ice-cutting machine. E. Hatton. No. 964,104; July 12; Sp. p. 2376; Gaz. vol. 156; p. 389.
Ice-cutting machine. C. Keller and H. Schwark. No. 968,243; Aug. 23; Sp. p. 5145; Gaz. vol. 157; p. 886.
Ice-field scraper. A. Krajeck. No. 945,787; Jan. 11; Sp. p. 1729; Gaz. vol. 150; p. 290.
Ice-harvester. A. N. Habberley. No. 945,781; Jan. 11; Sp. p. 1718; Gaz. vol. 150; p. 288.
Ice-harvester. F. E. Laverty. No. 961,781; June 21; Sp. p. 3181; Gaz. vol. 155; p. 572.
Ice-harvester. T. and W. P. Diamond. No. 972,517; Oct. 11; Sp. p. 2189; Gaz. vol. 159; p. 378.
Ice-machine. H. D. Pownall. No. 959,602; May 31; Sp. p. 6873; Gaz. vol. 154; p. 1170.
Ice-machine. H. D. Pownall. No. 964,936; July 19; Sp. p. 4214; Gaz. vol. 156; p. 703.
Ice-machine, Gang-saw. G. H. Babcock. No. 955,744; Apr. 19; Sp. p. 4440; Gaz. vol. 153; p. 766.
Ice, Making. A. E. Beals. No. 959,697; May 31; Sp. p. 7070; Gaz. vol. 154; p. 1200.
Ice, Making. P. R. McCrary. No. 963,311; July 5; Sp. p. 698; Gaz. vol. 156; p. 100.
Ice-making apparatus. W. E. Armistead. No. 967,302; Aug. 16; Sp. p. 3143; Gaz. vol. 157; p. 544.
Ice-making apparatus. J. B. Howe. No. 969,696; Sept. 6; Sp. p. 1145; Gaz. vol. 158; p. 185.
Ice-making apparatus. J. B. Howe. No. 973,434; Oct. 18; Sp. p. 4235; Gaz. vol. 159; p. 721.
Ice-making apparatus. W. H. A. Halsall. No. 975,523; Nov. 15; Sp. p. 3225; Gaz. vol. 160; p. 549.
Ice-making apparatus, Artificial-. O. H. Jewell. No. 965,583; July 26; Sp. p. 5602; Gaz. vol. 156; p. 953.
Ice-making apparatus, Artificial-. O. H. Jewell. No. 965,584; July 26; Sp. p. 5604; Gaz. vol. 156; p. 954.
Ice-making apparatus, Plate-. D. Havenstrite. No. 967,191; Aug. 16; Sp. p. 2933; Gaz. vol. 157; p. 507.
Ice-making apparatus, Skimming-regulator for. W. H. Manns. No. 979,523; Dec. 27; Sp. p. 4539; Gaz. vol. 161; p. 801.
Ice-making machine. C. Wagener. No. 958,683; May 17; Sp. p. 4919; Gaz. vol. 154; p. 807.
Ice-making machine. T. H. Ray. No. 962,241; June 21; Sp. p. 4186; Gaz. vol. 155; p. 727.
Ice-making machine. W. M. Pruett. No. 974,184; Nov. 1; Sp. p. 169; Gaz. vol. 160; p. 30.
Ice-making machine. G. H. Reynolds. No. 977,475; Dec. 6; Sp. p. 100; Gaz. vol. 161; p. 19.
Ice-making system. G. L. Vail. No. 979,112; Dec. 20; Sp. p. 3690; Gaz. vol. 161; p. 640.
Ice, Manufacture of. A. H. Buckley. No. 961,839; June 21; Sp. p. 3318; Gaz. vol. 155; p. 590.
Ice-manufacturing apparatus. J. F. Rogers. No. 954,467; Apr. 12; Sp. p. 1640; Gaz. vol. 153; p. 298.
Ice, Means for making artificial plate-. J. J. De Kinder. No. 947,615; Jan. 25; Sp. p. 5829; Gaz. vol. 150; p. 968.

Alphabetical list of inventions—Continued.

Ice-pick. F. W. Geissenhainer. No. 949,470; Feb. 15; Sp. p. 3555; Gaz. vol. 151; p. 619.
Ice-pick. E. R. Spalke. No. 949,667; Feb. 15; Sp. p. 3919; Gaz. vol. 151; p. 683.
Ice plants, Distillation system for. A. Faget. No. 978,279; Dec. 13; Sp. p. 1873; Gaz. vol. 161; p. 328.
Ice protecting and preserving means. E. M. Boynton. No. 964,143; July 12; Sp. p. 2450; Gaz. vol. 156; p. 403.
Ice-saw. J. H. Mapes. No. 956,812; May 3; Sp. p. 676; Gaz. vol. 154; p. 107.
Ice-saw. K. K. Witt. No. 958,684; May 17; Sp. p. 4920; Gaz. vol. 154; p. 807.
Ice-saw. J. N. Kopp. No. 976,661; Nov. 22; Sp. p. 5690; Gaz. vol. 160; p. 962.
Ice-scraper. G. B. Miller. No. 977,211; Nov. 29; Sp. p. 6930; Gaz. vol. 160; p. 1177.
Ice-severing device. G. F. Savoy. No. 956,604; May 3; Sp. p. 212; Gaz. vol. 154; p. 37.
Ice-tool. P. Robarge. No. 964,453; July 12; Sp. p. 3066; Gaz. vol. 156; p. 503.
Identification device. F. A. Delabarre. No. 964,499; July 19; Sp. p. 3189; Gaz. vol. 156; p. 552.
Identifying device. G. W. Lott. No. 948,099; Feb. 1; Sp. p. 668; Gaz. vol. 151; p. 108.
Igniter. O. Pearson. No. 953,488; Mar. 29; Sp. p. 6263; Gaz. vol. 152; p. 1123.
Igniter. A. De Rose. No. 968,330; Aug. 23; Sp. p. 5327; Gaz. vol. 157; p. 917.
Igniter. E. F. Koehler. No. 972,386; Oct. 11; Sp. p. 1884; Gaz. vol. 159; p. 331.
Igniter for explosive shells, Electric. P. Schwenke. No. 952,760; Mar. 22; Sp. p. 4704; Gaz. vol. 152; p. 850.
Igniter, Pocket-. H. F. Jones. No. 970,506; Sept. 20; Sp. p. 2903; Gaz. vol. 158; p. 507.
Igniter, Pocket-. L. Schön. No. 970,649; Sept. 20; Sp. p. 3233; Gaz. vol. 158; p. 557.
Igniter, Sparking. G. F. Dillig. No. 967,344; Aug. 16; Sp. p. 3230; Gaz. vol. 157; p. 560.
Ignitible liquids, Safety apparatus for volatile. E. R. Laughlin. No. 978,459; Dec. 13; Sp. p. 2246; Gaz. vol. 161; p. 389.
Igniting apparatus. D. S. Cole. No. 951,724; Mar. 8; Sp. p. 2533; Gaz. vol. 152; p. 441.
Igniting-furnace for pulverous fuel. N. K. H. Ekelund. No. 960,292; June 7; Sp. p. 103; Gaz. vol. 155; p. 20.
Ignition apparatus. E. D. Bright. No. 945,262; Jan. 4; Sp. p. 533; Gaz. vol. 150; p. 87.
Ignition apparatus. E. Eisemann. No. 953,990; Apr. 5; Sp. p. 614; Gaz. vol. 153; p. 109.
Ignition apparatus. A. E. England. No. 964,007; July 12; Sp. p. 2174; Gaz. vol. 156; p. 355.
Ignition apparatus, Electric. H. G. Osburn. No. 978,197; Dec. 13; Sp. p. 1696; Gaz. vol. 161; p. 298.
Ignition apparatus, Magneto. C. M. P. Montbarbon. No. 953,218; Mar. 29; Sp. p. 5675; Gaz. vol. 152; p. 1031.
Ignition device. B. M. Aslakson. No. 949,138; Feb. 15; Sp. p. 2863; Gaz. vol. 151; p. 506.
Ignition systems, Wire bar for. C. Schmidt. No. 958,835; May 24; Sp. p. 5267; Gaz. vol. 154; p. 888.
Ignition-timer. H. I. Broedling. No. 955,845; Apr. 26; Sp. p. 4661; Gaz. vol. 153; p. 830.
Ignition trouble-finder. F. T. Cable. No. 953,776; Apr. 5; Sp. p. 185; Gaz. vol. 153; p. 34.
Illuminated announcement and display signal. F. W. Wood. No. 974,943; Nov. 8; Sp. p. 1964; Gaz. vol. 160; p. 324.
Illuminated fountain. F. G. Jones. No. 947,241; Jan. 25; Sp. p. 4928; Gaz. vol. 150; p. 840.
Illuminating and projecting apparatus, Solar. W. T. Skilling. No. 951,850; Mar. 15; Sp. p. 2828; Gaz. vol. 152; p. 515.
Illuminating-body. G. Weissmann. No. 960,466; June 7; Sp. p. 447; Gaz. vol. 155; p. 76.
Illuminating composition. F. C. Simson. No. 966,251; Aug. 2; Sp. p. 876; Gaz. vol. 157; p. 139.
Illuminating device and reflector. J. Taussig. No. 973,235; Oct. 18; Sp. p. 3820; Gaz. vol. 159; p. 653.
Illuminating device for burning wax. P. Destefani. No. 958,235; May 17; Sp. p. 3876; Gaz. vol. 154; p. 655.
Illumination system. C. P. Steinmetz. No. 945,990; Jan. 11; Sp. p. 2192; Gaz. vol. 150; p. 363.
Illusion apparatus. C. E. A. Merrow. No. 973,449; Oct. 18; Sp. p. 4262; Gaz. vol. 159; p. 726.
Illusion, Stage. J. G. Bostock. No. 976,143; Nov. 22; Sp. p. 4514; Gaz. vol. 160; p. 783.
Illusory dramatic effects, Apparatus for producing. T. R. Barrett. No. 976,976; Nov. 29; Sp. p. 6417; Gaz. vol. 160; p. 1096.
Images on glass, porcelain, ceramic, metallic, or other surfaces, Reproduction of. M. Anthès. No. 959,692; May 31; Sp. p. 7056; Gaz. vol. 154; p. 1198.
Impact-tool. J. J. Padbury. No. 957,708; May 10; Sp. p. 2559; Gaz. vol. 154; p. 443.
Impaling-roll. E. L. Chaddock. No. 975,831; Nov. 15; Sp. p. 3863; Gaz. vol. 160; p. 652.
Implement, Combination. C. J. Livering. No. 957,692; May 10; Sp. p. 2530; Gaz. vol. 154; p. 438.
Implement-handle. B. F. Taylor. No. 978,510; Dec. 13; Sp. p. 2359; Gaz. vol. 161; p. 407.
Impression apparatus. L. Huffman. No. 946,224; Jan. 11; Sp. p. 2664; Gaz. vol. 150; p. 443.
Incandescent gas-mantle and making same. A. P. White. No. 966,283; Aug. 2; Sp. p. 937; Gaz. vol. 157; p. 149.
Incandescent light. R. D. Cody. No. 958,094; May 17; Sp. p. 3597; Gaz. vol. 154; p. 606.
Incandescent lights, Shade and reflector for. G. A. Ringler. No. 968,421; Aug. 23; Sp. p. 5497; Gaz. vol. 157; p. 948.
Incandescent mantle, Inverted. C. K. Harding. No. 960,638; June 7; Sp. p. 818; Gaz. vol. 155; p. 134.
Incandescent-mantle support, Inverted-. J. T. Lister. No. 963,910; July 12; Sp. p. 1968; Gaz. vol. 156; p. 323.
Incandescent mantles, Container for. H. C. Plimpton. No. 962,384; June 21; Sp. p. 4491; Gaz. vol. 155; p. 775.
Incandescent mantles, Manufacture of. A. G. Adamson. No. 965,057; July 19; Sp. p. 4463; Gaz. vol. 156; p. 743.
Incandescent mantles, Means for packing. H. Schmalland. No. 955,361; Apr. 19; Sp. p. 3600; Gaz. vol. 153; p. 635.
Incandescent mantles, Producing. C. R. Böhm. No. 973,253; Oct. 18; Sp. p. 3850; Gaz. vol. 159; p. 658.
Incandescent materials, Apparatus for quenching. E. H. H. Krause. No. 976,580; Nov. 22; Sp. p. 5531; Gaz. vol. 160; p. 934.
Incinerating-furnace. F. L. Stearns. No. 973,313; Oct. 18; Sp. p. 3969; Gaz. vol. 159; p. 679.
Incinerating-furnace. F. L. Stearns. No. 973,314; Oct. 18; Sp. p. 3973; Gaz. vol. 159; p. 679.
Incinerating plant. E. F. Price and T. F. Bennett. No. 958,308; May 17; Sp. p. 4174; Gaz. vol. 154; p. 681.
Incinerating receptacle and chute. N. W. Lowe. No. 949,086; Feb. 22; Sp. p. 4691; Gaz. vol. 151; p. 829.
Incinerator. F. L., A. S., and L. A. R. Decarie. No. 951,905; Mar. 15; Sp. p. 2950; Gaz. vol. 152; p. 534.
Inclined elevator. J. W. Reno. No. 963,176; July 5; Sp. p. 378; Gaz. vol. 156; p. 53.
Incubator. W. H. Somersall. No. 948,906; Feb. 8; Sp. p. 2372; Gaz. vol. 151; p. 404.
Incubator. J. H. Klinke. No. 949,653; Feb. 15; Sp. p. 3899; Gaz. vol. 151; p. 679.
Incubator. L. N. Porter. No. 956,600; May 3; Sp. p. 201; Gaz. vol. 154; p. 35.
Incubator. G. W. R. Zimmerman. No. 960,476; June 7; Sp. p. 469; Gaz. vol. 155; p. 79.
Incubator. J. M. Sherman. No. 962,594; June 28; Sp. p. 4991; Gaz. vol. 155; p. 873.
Incubator. A. Essig. No. 964,467; July 12; Sp. p. 3092; Gaz. vol. 156; p. 508.
Incubator. A. Gerard. No. 964,509; July 19; Sp. p. 3208; Gaz. vol. 156; p. 555.
Incubator. G. M. Curtis. No. 970,311; Sept. 13; Sp. p. 2499; Gaz. vol. 158; p. 421.
Incubator. H. R. Parker. No. 971,212; Sept. 27; Sp. p. 4421; Gaz. vol. 158; p. 775.
Incubator. I. Putnam. No. 978,205; Dec. 13; Sp. p. 1714; Gaz. vol. 161; p. 301.
Incubator. C. L. Vetter. No. 978,520; Dec. 13; Sp. p. 2377; Gaz. vol. 161; p. 410.
Incubator-alarm. P. Flora. No. 948,504; Feb. 8; Sp. p. 1530; Gaz. vol. 151; p. 270.
Incubator-alarm. W. M. Braly. No. 974,638; Nov. 1; Sp. p. 1280; Gaz. vol. 160; p. 197.
Incubator and brooder, Convertible. H. M. Sheer. No. 977,973; Dec. 6; Sp. p. 1198; Gaz. vol. 161; p. 191.
Incubator and brooder heater. C. A. Damon. No. 978,990; Dec. 20; Sp. p. 3394; Gaz. vol. 161; p. 597.
Incubator-heater. J. W. Sauer. No. 950,245; Feb. 22; Sp. p. 5241; Gaz. vol. 151; p. 919.
Incubator-heater. C. E. Adair. No. 953,310; Mar. 29; Sp. p. 5868; Gaz. vol. 152; p. 1060.
Incubator-heater. W. A. McMahon. No. 961,520; June 14; Sp. p. 2636; Gaz. vol. 155; p. 460.
Incubator-heater. M. M. Johnson. No. 970,057; Sept. 13; Sp. p. 1980; Gaz. vol. 158; p. 335.
Incubator-heating device. J. L. Nix. No. 964,680; July 19; Sp. p. 3700; Gaz. vol. 156; p. 615.
Incubator-heating tank. P. J. McCabe. No. 973,681; Oct. 25; Sp. p. 4769; Gaz. vol. 159; p. 829.
Incubator, Self-regulating. L. C. Reed. No. 965,837; July 26; Sp. p. 6140; Gaz. vol. 156; p. 1041.
Incubators, Egg-turner for. H. Hartlieb and F. Lind. No. 969,277; Sept. 6; Sp. p. 267; Gaz. vol. 158; p. 44.
Incubators, Egg-turning tray for. G. F. Boyer. No. 973,104; Oct. 18; Sp. p. 3508; Gaz. vol. 159; p. 606.
Incubators, Egg-turning tray for. J. and F. C. Kunz. No. 977,638; Dec. 6; Sp. p. 496; Gaz. vol. 161; p. 75.
Incubators, Thermostatic regulator for. H. M. Sheer. No. 961,654; June 14; Sp. p. 2918; Gaz. vol. 155; p. 505.
Indenting-machine. W. B. Keighley. No. 962,845; June 28; Sp. p. 5491; Gaz. vol. 155; p. 960.
Index. R. W. Wood. No. 955,735; Apr. 19; Sp. p. 4424; Gaz. vol. 153; p. 763.
Index. G. Thackrah. No. 965,666; July 26; Sp. p. 5771; Gaz. vol. 156; p. 982.
Index. M. Cornine. No. 979,437; Dec. 27; Sp. p. 4352; Gaz. vol. 161; p. 771.
Index cabinet, Card-. E. Ohnstrand. No. 947,842; Feb. 1; Sp. p. 136; Gaz. vol. 151; p. 23.
Index, Card-. M. A. Brown. No. 956,475; Apr. 26; Sp. p. 6047; Gaz. vol. 153; p. 1048.
Index, Card-. W. J. Lowder. No. 967,945; Aug. 23; Sp. p. 4457; Gaz. vol. 157; p. 784.

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Index case, Card-. F. W. Tobey. No. 978,960; Dec. 20; Sp. p. 3330; Gaz. vol. 161; p. 586.
Index clasp, Vertical file-. C. J. Whipple. No. 958,050; May 17; Sp. p. 3464; Gaz. vol. 154; p. 592.
Index, Folding. C. E. Hudson. No. 963,442; July 5; Sp. p. 964; Gaz. vol. 156; p. 144.
Index or directory. D. T. O'Sullivan. No. 954,334; Apr. 5; Sp. p. 1365; Gaz. vol. 153; p. 226.
Index, Physician's card-. C. F. A. Hall. No. 946,637; Jan. 18; Sp. p. 3639; Gaz. vol. 150; p. 610.
Index system. E. A. Bagby. No. 955,038; Apr. 12; Sp. p. 2923; Gaz. vol. 153; p. 495.
Index-tab. W. E. Harrod. No. 976,073; Nov. 15; Sp. p. 4333; Gaz. vol. 160; p. 735.
Index-tab. W. E. Harrod. No. 979,946; Dec. 27; Sp. p. 5469; Gaz. vol. 161; p. 945.
Index-tag, Removable. J. O. Richards. No. 968,802; Aug. 30; Sp. p. 6339; Gaz. vol. 157; p. 1105.
Indexing, Book-. C. H. Drake. No. 945,765; Jan. 11; Sp. p. 1687; Gaz. vol. 150; p. 283.
Indexing device. B. F. Morrill. No. 971,464; Sept. 27; Sp. p. 4883; Gaz. vol. 158; p. 855.
India-rubber or caoutchouc and extraction of caoutchouc from raw materials containing caoutchouc, Regenerating and devulcanizing. G. Austerweil. No. 961,395; June 14; Sp. p. 2367; Gaz. vol. 155; p. 418.
Indicating and recording device. F. A. Morgan. (Reissue.) No. 13,159; Oct. 18; Sp. p. 4292; Gaz. vol. 159; p. 731.
Indicating and recording mechanism. T. M. Foote. No. 974,562; Nov. 1; Sp. p. 1129; Gaz. vol. 160; p. 170.
Indicating and totalizing mechanism. E. S. Donisthorpe. No. 953,261; Mar. 29; Sp. p. 5772; Gaz. vol. 152; p. 1045.
Indicating device. H. G. Osburn. No. 955,988; Apr. 26; Sp. p. 4980; Gaz. vol. 153; p. 1048.
Indicating instruments, Register mechanism for. F. F. Kinney. No. 961,358; June 14; Sp. p. 2305; Gaz. vol. 155; p. 407.
Indicating mechanism. D. E. Scrafford. No. 947,948; Feb. 1; Sp. p. 357; Gaz. vol. 151; p. 57.
Indicating-switch. R. C. Browne. No. 973,257; Oct. 18; Sp. p. 3858; Gaz. vol. 159; p. 660.
Indicator: *See* Air-brake indicator; Air-pressure indicator; Battery-indicator; Calendar-indicator; Car-indicator; Card-indicator; Coin-controlled indicator; Course-indicator; Distance and speed indicator; Electric pressure-ratio indicator; Electrical indicator; Engine-indicator; Firing-indicator; Float combustion-indicator; Flow-indicator; Fuse-indicator; Game-points indicator; Gasolene-indicator; Hat-indicator; Hotel-indicator; Hydraulic indicator; Lamp-indicator; Lock-indicator; Musical time-indicator; Oil-pot indicator; Pressure-gage indicator; Railway-indicator; Route-indicator; Shoal-water indicator; Speed-indicator; Speed and time indicator; Station-indicator; Station or street indicator; Steering-indicator; Street-indicator; Street or station indicator; Tank-indicator; Time-indicator; Vehicle-indicator; Vibration-indicator; Watch winding-indicator.
Indicator. O. F. Russell. No. 947,131; Jan. 18; Sp. p. 4688; Gaz. vol. 150; p. 774.
Indicator. H. A. Raedeker. No. 953,762; Apr. 5; Sp. p. 160; Gaz. vol. 153; p. 30.
Indicator. E. Pearson. No. 954,338; Apr. 5; Sp. p. 1371; Gaz. vol. 153; p. 227.
Indicator. W. D. Stanton. No. 955,712; Apr. 19; Sp. p. 4379; Gaz. vol. 153; p. 755.
Indicator. L. J. Rieckhoff. No. 956,175; Apr. 26; Sp. p. 5394; Gaz. vol. 153; p. 946.
Indicator. J. F. Marousek. No. 960,658; June 7; Sp. p. 855; Gaz. vol. 155; p. 141.
Indicator. A. E. Redifer. No. 967,833; Aug. 16; Sp. p. 4234; Gaz. vol. 157; p. 724.
Indicator. B. H. Wike. No. 968,300; Aug. 23; Sp. p. 5260; Gaz. vol. 157; p. 905.
Indicator. C. Emsheimer. No. 970,200; Sept. 13; Sp. p. 2264; Gaz. vol. 158; p. 384.
Indicator. T. G. Leavell. No. 971,052; Sept. 27; Sp. p. 4077; Gaz. vol. 158; p. 722.
Indicator. W. G. Wolfe, C. E. Bissell, and W. J. Branstetter. No. 971,096; Sept. 27; Sp. p. 4171; Gaz. vol. 158; p. 736.
Indicator-generator for ignition purposes. H. J. and T. E. Podlešák. No. 947,647; Jan. 25; Sp. p. 5893; Gaz. vol. 150; p. 978.
Indicator-lock. E. H. Jones. No. 963,712; July 5; Sp. p. 1505; Gaz. vol. 156; p. 234.
Indicator-operating means. G. N. Saegmuller. No. 961,898; June 21; Sp. p. 3445; Gaz. vol. 155; p. 610.
Indicator or bulletin. N. E. Barnes. No. 969,592; Sept. 6; Sp. p. 955; Gaz. vol. 158; p. 151.
Indicator reducing-motion mechanism. F. O. Ball. No. 959,443; May 31; Sp. p. 6511; Gaz. vol. 154; p. 1115.
Indigo and making it, Halogenated. P. E. Oberreit, V. Villiger, and P. Nawiasky. No. 948,241; Feb. 1; Sp. p. 942; Gaz. vol. 151; p. 155.
Indigo and making same, Dichlor-dibrom-. P. Julius, V. Villiger, and P. Nawiasky. No. 957,683; May 10; Sp. p. 2514; Gaz. vol. 154; p. 435.
Indigo leuco bodies, Manufacture of. O. Liebknecht. No. 963,377; July 5; Sp. p. 828; Gaz. vol. 156; p. 122.
Individual table. M. C. Shannon. No. 965,414; July 26; Sp. p. 5204; Gaz. vol. 156; p. 893.
Indophenolic compound and making same. R. Herz. No. 966,092; Aug. 2; Sp. p. 529; Gaz. vol. 157; p. 86.
Indoxyl, &c., Making. M. Mugdan and W. Herrmann. No. 960,671; June 7; Sp. p. 884; Gaz. vol. 155; p. 146.
Inductance coil, Variable self-. J. R. Jesse. No. 966,555; Aug. 9; Sp. p. 1562; Gaz. vol. 157; p. 266.
Induction-coil. J. O. Heinze, Jr. No. 977,870; Dec. 6; Sp. p. 979; Gaz. vol. 161; p. 154.
Induction-furnace. P. Gredt. No. 950,911; Mar. 1; Sp. p. 944; Gaz. vol. 152; p. 151.
Induction-furnace. K. A. F. Hiorth. No. 954,804; Apr. 12; Sp. p. 2429; Gaz. vol. 153; p. 415.
Induction-meter. C. D. Babcock. No. 947,092; Jan. 18; Sp. p. 4621; Gaz. vol. 150; p. 763.
Induction-motor. R. B. Williamson. No. 953,809; Apr. 5; Sp. p. 256; Gaz. vol. 153; p. 46.
Induction-motor. J. E. Webster. No. 971,649; Oct. 4; Sp. p. 288; Gaz. vol. 159; p. 52.
Induction-motor, Synchronous. C. A. Lohr. No. 971,056; Sept. 27; Sp. p. 4084; Gaz. vol. 158; p. 723.
Inductor-generator for ignition purposes. H. J. and T. E. Podlešák. No. 948,483; Feb. 8; Sp. p. 1482; Gaz. vol. 151; p. 262.
Inflammable solutions, Storing. C. Martini. No. 962,036; June 21; Sp. p. 3738; Gaz. vol. 155; p. 656.
Infusions, Apparatus for preparing. H. E. Korn and E. Kuhn. No. 975,874; Nov. 15; Sp. p. 3957; Gaz. vol. 160; p. 667.
Ingot-mold. E. Gathmann. No. 961,854; June 21; Sp. p. 3367; Gaz. vol. 155; p. 596.
Ingot-mold. E. Gathmann. No. 974,133; Nov. 1; Sp. p. 54; Gaz. vol. 160; p. 12.
Ingot-mold. W. H. Connell. No. 975,511; Nov. 15; Sp. p. 3199; Gaz. vol. 160; p. 544.
Ingot-stripper. C. L. Taylor. No. 963,960; July 12; Sp. p. 2071; Gaz. vol. 156; p. 338.
Ingot-stripper. D. Kendall. No. 969,634; Sept. 6; Sp. p. 1028; Gaz. vol. 158; p. 165.
Ingot stripper and charger, Combined. D. Kendall. No. 945,548; Jan. 4; Sp. p. 1166; Gaz. vol. 150; p. 181.
Ingots and other castings, Apparatus for making metal. R. A. Hadfield. No. 954,183; Apr. 5; Sp. p. 1032; Gaz. vol. 153; p. 175.
Ingots, Treating metal. J. A. Brinell. No. 976,146; Nov. 22; Sp. p. 4518; Gaz. vol. 160; p. 783.
Inhaler. W. S. Doane. No. 957,548; May 10; Sp. p. 2245; Gaz. vol. 154; p. 388.
Inhaler. H. Edde. No. 960,523; June 7; Sp. p. 569; Gaz. vol. 155; p. 94.
Inhaler. I. Bucceri. No. 962,617; June 28; Sp. p. 5033; Gaz. vol. 155; p. 880.
Inhaler. G. O. Ferguson. No. 968,757; Aug. 30; Sp. p. 6246; Gaz. vol. 157; p. 1092.
Inhaler. E. S. Balthrop. No. 972,318; Oct. 11; Sp. p. 1746; Gaz. vol. 159; p. 307.
Initial-handle. W. F. Thompson. No. 952,766; Mar. 22; Sp. p. 4719; Gaz. vol. 152; p. 851.
Initiating-machine. I. A. Mamaux. No. 966,935; Aug. 9; Sp. p. 2383; Gaz. vol. 157; p. 391.
Initiation apparatus. E. De Moulin. No. 961,847; June 21; Sp. p. 3335; Gaz. vol. 155; p. 593.
Initiation device. E. De Moulin. No. 976,851; Nov. 29; Sp. p. 6102; Gaz. vol. 160; p. 1050.
Injection apparatus. W. S. Rodgers and J. Sein. No. 963,731; July 5; Sp. p. 1562; Gaz. vol. 156; p. 240.
Injector. W. T. Strain and W. H. Locke. No. 950,774; Mar. 1; Sp. p. 680; Gaz. vol. 152; p. 108.
Injector. R. G. Brooke. No. 967,717; Aug. 16; Sp. p. 3997; Gaz. vol. 157; p. 685.
Injector. G. Fusch. No. 972,846; Oct. 18; Sp. p. 2903; Gaz. vol. 159; p. 516.
Injector, Spiral-jet. G. C. McFarlane. No. 950,598; Mar. 1; Sp. p. 279; Gaz. vol. 152; p. 46.
Injector, Steam-. R. G. Brooke. No. 978,000; Dec. 6; Sp. p. 1248; Gaz. vol. 161; p. 200.
Injector, Steam-. R. G. Brooke. No. 978,001; Dec. 6; Sp. p. 1250; Gaz. vol. 161; p. 200.
Ink. W. G. Fuerth. No. 970,439; Sept. 13; Sp. p. 2743; Gaz. vol. 158; p. 462.
Ink and producing the same, Transfer-. C. F. Morse. No. 979,542; Dec. 27; Sp. p. 4581; Gaz. vol. 161; p. 807.
Ink-distributer. A. E. Berreyesa. No. 971,821; Oct. 4; Sp. p. 645; Gaz. vol. 159; p. 113.
Ink for ceramic transfer-pictures. J. Kasseker. No. 971,280; Sept. 27; Sp. p. 4553; Gaz. vol. 158; p. 796.
Ink-fountain, Distributing. E. S. Ladd. No. 959,558; May 31; Sp. p. 6790; Gaz. vol. 154; p. 1155.
Ink-pad. J. Raven, Jr. No. 966,951; Aug. 9; Sp. p. 2409; Gaz. vol. 157; p. 396.
Ink-well. E. Tannewitz. No. 945,060; Jan. 4; Sp. p. 110; Gaz. vol. 150; p. 19.
Ink-well. J. B. Randolph. No. 955,432; Apr. 19; Sp. p. 3748; Gaz. vol. 153; p. 658.
Ink-well. T. E. McNulty. No. 958,668; May 17; Sp. p. 4887; Gaz. vol. 154; p. 802.
Ink-well. H. B. Parsons. No. 959,382; May 24; Sp. p. 6400; Gaz. vol. 154; p. 1070.

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Ink-well. W. J. Somerville. No. 960,726; June 7; Sp. p. 987; Gaz. vol. 155; p. 164.
Ink-well. V. L. Littig. No. 961,972; June 21; Sp. p. 3608; Gaz. vol. 155; p. 635.
Ink-well. H. Malick. No. 962,968; June 28; Sp. p. 5712; Gaz. vol. 155; p. 1001.
Ink-well holder. B. D. Brown. No. 980,056; Dec. 27; Sp. p. 5710; Gaz. vol. 161; p. 982.
Inking device. B. von Philp. No. 955,197; Apr. 19; Sp. p. 3238; Gaz. vol. 153; p. 580.
Inking device. E. P. Sheldon. No. 967,985; Aug. 23; Sp. p. 4548; Gaz. vol. 157; p. 798.
Inking device. C. W. Canine. No. 968,537; Aug. 30; Sp. p. 5754; Gaz. vol. 157; p. 1013.
Inking device. W. Chipperfield. No. 979,649; Dec. 27; Sp. p. 4820; Gaz. vol. 161; p. 846.
Inking mechanism. J. S. Duncan. No. 970,027; Sept. 13; Sp. p. 1914; Gaz. vol. 158; p. 325.
Inking-ribbon. G. T. Newton. No. 960,036; May 31; Sp. p. 7859; Gaz. vol. 154; p. 1319.
Inking-ribbon winding apparatus. G. Bluen. No. 957,542; May 10; Sp. p. 2234; Gaz. vol. 154; p. 387.
Inking-roller. R. W. Munk. No. 949,437; Feb. 16; Sp. p. 3490; Gaz. vol. 151; p. 610.
Inking-roller-cooling apparatus. E. R. Melton. No. 973,122; Oct. 18; Sp. p. 3539; Gaz. vol. 159; p. 612.
Inking-rollers. W. W. Hill. No. 979,300; Dec. 20; Sp. p. 4090; Gaz. vol. 161; p. 704.
Inkstand. F. H. Allen. No. 947,091; Jan. 18; Sp. p. 4619; Gaz. vol. 150; p. 763.
Inkstand. J. B. Nixon. No. 951,764; Mar. 8; Sp. p. 2640; Gaz. vol. 152; p. 456.
Inkstand. J. J. Hoey. No. 952,116; Mar. 15; Sp. p. 3348; Gaz. vol. 152; p. 603.
Inkstand. J. J. Hoey. No. 952,329; Mar. 15; Sp. p. 3766; Gaz. vol. 152; p. 674.
Inkstand. C. C. Miles. No. 953,917; Apr. 5; Sp. p. 462; Gaz. vol. 153; p. 84.
Inkstand. F. M. Ashley. No. 960,770; June 7; Sp. p. 1079; Gaz. vol. 155; p. 181.
Inkstand. C. L. Smith. No. 964,572; July 19; Sp. p. 3381; Gaz. vol. 156; p. 577.
Inkstand. F. L. Gohl. No. 979,473; Dec. 27; Sp. p. 4435; Gaz. vol. 161; p. 784.
Inkstand with self-filling well. H. Klett. No. 947,664; Jan. 25; Sp. p. 5924; Gaz. vol. 150; p. 984.
Innersole. G. E. Rollins. No. 955,104; Apr. 12; Sp. p. 3032; Gaz. vol. 153; p. 514.
Innersole. D. Sexton. No. 975,576; Nov. 15; Sp. p. 3345; Gaz. vol. 160; p. 567.
Inseam-trimming machine. A. E. Johnson. No. 956,971; May 3; Sp. p. 1032; Gaz. vol. 154; p. 162.
Inseam-trimming machine. A. Bates. No. 960,781; June 7; Sp. p. 1096; Gaz. vol. 155; p. 184.
Inseam-trimming machine. W. B. Keighley. No. 960,952; June 7; Sp. p. 1423; Gaz. vol. 155; p. 240.
Insect-catcher. A. H. Lee. No. 948,786; Feb. 8; Sp. p. 2141; Gaz. vol. 151; p. 364.
Insect-catcher. A. E. Crabtree. No. 967,883; Aug. 23; Sp. p. 4329; Gaz. vol. 157; p. 764.
Insect-catcher. F. M. Carter. No. 970,181; Sept. 13; Sp. p. 2214; Gaz. vol. 158; p. 377.
Insect collector and destroyer. W. J. Green. No. 971,193; Sept. 27; Sp. p. 4379; Gaz. vol. 158; p. 769.
Insect-destroyer. I. P. Farrington. No. 962,561; June 28; Sp. p. 4926; Gaz. vol. 155; p. 862.
Insect-destroyer. T. R. Wallis. No. 962,869; June 28; Sp. p. 5547; Gaz. vol. 155; p. 970.
Insect-destroyer, Electric. W. M. Frost. No. 974,785; Nov. 8; Sp. p. 1603; Gaz. vol. 160; p. 270.
Insect-destroyer, Mechanical. J. R. Truelove. No. 969,006; Aug. 30; Sp. p. 6740; Gaz. vol. 157; p. 1174.
Insect-destroying bomb. D. M. Rogers. No. 954,591; Apr. 12; Sp. p. 1910; Gaz. vol. 153; p. 340.
Insect-trap. J. W. Malphurs. No. 951,763; Mar. 8; Sp. p. 2639; Gaz. vol. 152; p. 456.
Insect-trap. J. F. Watts. No. 958,786; May 24; Sp. p. 5154; Gaz. vol. 154; p. 869.
Insect-trap. M. Swartz. No. 963,483; July 5; Sp. p. 1039; Gaz. vol. 156; p. 158.
Insect-trap, especially for flies. E. Böhm. No. 970,784; Sept. 20; Sp. p. 3536; Gaz. vol. 158; p. 605.
Insects which fly at night, Device for destroying. J. P. Young. No. 952,659; Mar. 22; Sp. p. 4485; Gaz. vol. 152; p. 816.
Insectarium. G. A. Akerlind. No. 948,805; Feb. 8; Sp. p. 2180; Gaz. vol. 151; p. 370.
Insecticide. G. Oddo. No. 948,739; Feb. 8; Sp. p. 2039; Gaz. vol. 151; p. 348.
Insecticide. I. W. Drummond. No. 960,287; June 7; Sp. p. 95; Gaz. vol. 155; p. 19.
Insecticide. E. Olsson. No. 963,932; July 12; Sp. p. 2010; Gaz. vol. 156; p. 330.
Insecticide and disinfectant. J. C. Dooley. No. 970,434; Sept. 13; Sp. p. 2736; Gaz. vol. 158; p. 461.
Insectifuge-holder. P. Pollard. No. 958,678; May 17; Sp. p. 4906; Gaz. vol. 154; p. 806.
Insole covering and reinforcing machine. W. C. Stewart. No. 965,342; July 26; Sp. p. 5060; Gaz. vol. 156; p. 870.
Insole-edge trimmer. W. H. Hooper. No. 957,960; May 17; Sp. p. 3139; Gaz. vol. 154; p. 558.
Insole, Electric. C. W. West. No. 974,220; Nov. 1; Sp. p. 260; Gaz. vol. 160; p. 43.
Insole for boots and shoes. T. J. Ryan. No. 958,013; May 17; Sp. p. 3314; Gaz. vol. 154; p. 577.
Insole for shoes. H. B. Hemphill. No. 969,691; Sept. 6; Sp. p. 1140; Gaz. vol. 158; p. 184.
Insole-lip-forming machine. W. B. White. No. 977,767; Dec. 6; Sp. p. 768; Gaz. vol. 161; p. 119.
Insole-machine. M. Watry. No. 950,198; Feb. 22; Sp. p. 5139; Gaz. vol. 151; p. 902.
Insole-machine. A. Eppler. No. 952,701; Mar. 22; Sp. p. 4572; Gaz. vol. 152; p. 830.
Insole-reinforcing machine. C. P. Stanbon. No. 945,348; Jan. 4; Sp. p. 749; Gaz. vol. 150; p. 115.
Insole-reinforcing machine. A. Eppler. No. 979,836; Dec. 27; Sp. p. 5251; Gaz. vol. 161; p. 909.
Insole-reinforcing strips, Machine for cutting and slitting. G. T. McLeod. No. 957,990; May 17; Sp. p. 3241; Gaz. vol. 154; p. 569.
Insole, Spring-. R. W. Morgan. No. 959,575; May 31; Sp. p. 6822; Gaz. vol. 154; p. 1161.
Insole, Spring-. R. W. Morgan. No. 966,759; Aug. 9; Sp. p. 2019; Gaz. vol. 157; p. 336.
Insole-tempering machine. W. H. Hooper. No. 957,961; May 17; Sp. p. 3142; Gaz. vol. 154; p. 558.
Insoles of boots and shoes, Machine for treating. W. H. Hooper. No. 957,959; May 17; Sp. p. 3135; Gaz. vol. 154; p. 557.
Instep-support. W. F. Connell. No. 979,930; Dec. 27; Sp. p. 5439; Gaz. vol. 161; p. 939.
Instrument, Combination. H. M. Johnson. No. 964,785; July 19; Sp. p. 3922; Gaz. vol. 156; p. 652.
Instrument, Compound. W. C. Stollberg. No. 963,405; July 5; Sp. p. 892; Gaz. vol. 156; p. 131.
Instrument-holder. J. Drexler. No. 946,539; Jan. 18; Sp. p. 3445; Gaz. vol. 150; p. 579.
Insulated conductors, Device for removing metallic coverings from. W. B. Hewitt. No. 967,635; Aug. 16; Sp. p. 3830; Gaz. vol. 157; p. 657.
Insulated conductors, Device for removing metallic coverings from. W. B. Hewitt. No. 967,636; Aug. 16; Sp. p. 3831; Gaz. vol. 157; p. 658.
Insulated handle, Hot-water-vessel. A. MacBeth. No. 967,799; Aug. 16; Sp. p. 4156; Gaz. vol. 157; p. 712.
Insulated hanger. E. Crabbe. No. 973,409; Oct. 18; Sp. p. 4185; Gaz. vol. 159; p. 713.
Insulated joint. G. Wright. No. 963,846; July 12; Sp. p. 1840; Gaz. vol. 156; p. 303.
Insulating-bushing. S. M. Kintner. No. 952,448; Mar. 22; Sp. p. 4003; Gaz. vol. 152; p. 742.
Insulating-bushing. C. H. Thordarson. No. 962,726; June 28; Sp. p. 5263; Gaz. vol. 155; p. 918.
Insulating-chain for pull-switches. H. Hubbell. No. 946,779; Jan. 18; Sp. p. 3949; Gaz. vol. 150; p. 657.
Insulating compound, Refractory waterproof. W. H. Wright and J. Hoffman. No. 956,870; May 3; Sp. p. 807; Gaz. vol. 154; p. 128.
Insulating-conduit for electric wires or conductors. A. P. Hinsky. No. 966,917; Aug. 9; Sp. p. 2356; Gaz. vol. 157; p. 386.
Insulating-covering for cables. P. Torchio. No. 958,046; May 17; Sp. p. 3454; Gaz. vol. 154; p. 591.
Insulating device. J. Steynis. No. 954,597; Apr. 12; Sp. p. 1922; Gaz. vol. 153; p. 342.
Insulating-hanger. N. J. Bigham. No. 977,262; Nov. 29; Sp. p. 7026; Gaz. vol. 160; p. 1195.
Insulating material. A. B. Reynders. No. 952,467; Mar. 22; Sp. p. 4056; Gaz. vol. 152; p. 749.
Insulating material. J. C. Dow. No. 952,513; Mar. 22; Sp. p. 4149; Gaz. vol. 152; p. 763.
Insulating material. C. F. Peterson. No. 973,557; Oct. 25; Sp. p. 4500; Gaz. vol. 159; p. 785.
Insulating material, Making. W. R. Seigle. No. 959,620; May 31; Sp. p. 6906; Gaz. vol. 154; p. 1175.
Insulating material, Making heated. H. F. Busch. No. 967,720; Aug. 16; Sp. p. 4003; Gaz. vol. 157; p. 686.
Insulating means for flush switches. C. D. Platt. No. 948,707; Feb. 8; Sp. p. 1964; Gaz. vol. 151; p. 337.
Insulating means, Producing transparent, flexible, and infusible. K. Winkler. No. 950,979; Mar. 1; Sp. p. 1078; Gaz. vol. 152; p. 173.
Insulating-support. G. B. McBean. No. 947,185; Jan. 18; Sp. p. 4802; Gaz. vol. 150; p. 791.
Insulating-support for overhead electric-railway conductors. W. H. Kempton. No. 966,102; Aug. 2; Sp. p. 552; Gaz. vol. 157; p. 89.
Insulating system for high-potential electric conductors. F. M. Locke. No. 973,204; Oct. 18; Sp. p. 3761; Gaz. vol. 159; p. 642.
Insulating-tube. M. L. Coffey. No. 946,655; Jan. 18; Sp. p. 3672; Gaz. vol. 150; p. 615.
Insulating-tube. T. T. Mather. No. 951,505; Mar. 8; Sp. p. 2125; Gaz. vol. 152; p. 368.
Insulating-tubes, Manufacture of. M. Meirowsky. No. 966,460; Aug. 9; Sp. p. 1298; Gaz. vol. 157; p. 233.
Insulating wall, Heat-. C. J. Coleman. No. 946,773; Jan. 18; Sp. p. 3938; Gaz. vol. 150; p. 655.
Insulation-applying device. J. A. Cates. No. 969,599; Sept. 6; Sp. p. 966; Gaz. vol. 158; p. 153.
Insulation-bag, Conduit. A. Funke. No. 967,360; Aug. 16; Sp. p. 3258; Gaz. vol. 157; p. 565.

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Insulation from conductors, Device for cutting. E. F. Chytraus. No. 969,339; Sept. 6; Sp. p. 393; Gaz. vol. 158; p. 64.
Insulation, Heat. C. J. Coleman. No. 946,772; Jan. 18; Sp. p. 3934; Gaz. vol. 150; p. 655.
Insulation-joint. A. McLean. No. 960,377; June 7; Sp. p. 287; Gaz. vol. 155; p. 48.
Insulation-slab. W. C. Kammerer. No. 979,310; Dec. 20; Sp. p. 4107; Gaz. vol. 161; p. 707.
Insulation system. L. Steinberger. No. 949,604; Feb. 15; Sp. p. 3809; Gaz. vol. 151; p. 664.
Insulator. A. B. Tinsley. No. 945,350; Jan. 4; Sp. p. 753; Gaz. vol. 150; p. 116.
Insulator. E. Burton. No. 947,094; Jan. 18; Sp. p. 4624; Gaz. vol. 150; p. 764.
Insulator. W. T. Goddard. No. 947,516; Jan. 25; Sp. p. 5625; Gaz. vol. 150; p. 934.
Insulator. W. S. Cone. No. 947,885; Feb. 1; Sp. p. 234; Gaz. vol 151; p. 38.
Insulator. A. J. Siler. No. 954,350; Apr. 5; Sp. p. 1393; Gaz. vol. 153; p. 231.
Insulator. A. L. Stadermann. No. 954,596; Apr. 12; Sp. p. 1921; Gaz. vol. 153; p. 341.
Insulator. C. C. Hardin. No. 955,065; Apr. 12; Sp. p. 2968; Gaz. vol. 153; p. 503.
Insulator. W. E. Moore. No. 955,661; Apr. 19; Sp. p. 4266; Gaz. vol. 153; p. 737.
Insulator. W. L. Reusch. No. 961,646; June 14; Sp. p. 2904; Gaz. vol. 155; p. 502.
Insulator. J. R. Tufts, Jr. No. 964,586; July 19; Sp. p. 3412; Gaz. vol. 156; p. 583.
Insulator. C. Smithson and J. W. Osborne. No. 965,123; July 19; Sp. p. 4584; Gaz. vol. 156; p. 765.
Insulator. J. F. Malthaner. No. 965,723; July 26; Sp. p. 5896; Gaz. vol. 156; p. 1002.
Insulator. J. A. Meurling. No. 970,078; Sept. 13; Sp. p. 2020; Gaz. vol. 158; p. 342.
Insulator. J. T. Klugh. No. 971,619; Oct. 4; Sp. p. 239; Gaz. vol. 159; p. 42.
Insulator. H. R. Markel. No. 971,683; Oct. 4; Sp. p. 362; Gaz. vol. 159; p. 63.
Insulator. J. H. Campbell. No. 972,994; Oct. 18; Sp. p. 3276; Gaz. vol. 159; p. 570.
Insulator. R. M. Johnston. No. 974,672; Nov. 1; Sp. p. 1345; Gaz. vol. 160; p. 209.
Insulator and conductor for electric currents. A Champion. No. 959,052; May 24; Sp. p. 5718; Gaz. vol. 154; p. 960.
Insulator-base. W. T. Goddard. No. 979,840; Dec. 27; Sp. p. 5259; Gaz. vol. 161; p. 910.
Insulator, Battery-plate. C. J. Bristol. No. 959,303; May 24; Sp. p. 6242; Gaz. vol. 154; p. 1044.
Insulator-clamp. J. Blackburn. No. 945,212; Jan. 4; Sp. p. 425; Gaz. vol. 150; p. 71.
Insulator-clamp. J. Blackburn. No. 945,213; Jan. 4; Sp. p. 427; Gaz. vol. 150; p. 71.
Insulator-clamp. W. G. Clark. No. 946,722; Jan. 18; Sp. p. 3815; Gaz. vol. 150; p. 637.
Insulator, Electric. H. W. Eden. No. 949,726; Feb. 15; Sp. p. 4048; Gaz. vol. 151; p. 702.
Insulator, Electric-light-pull. T. M. Harrigan. No. 948,109; Feb. 1; Sp. p. 686; Gaz. vol. 151; p. 112.
Insulator-fastening device. W. G. Clark. No. 966,311; Aug. 2; Sp. p. 978; Gaz. vol. 157; p. 157.
Insulator for electric lines. T. Varney. No. 946,623; Jan. 18; Sp. p. 3613; Gaz. vol. 150; p. 605.
Insulator for electric lines, Section-. H. F. Hoxie. No. 946,546; Jan. 18; Sp. p. 3455; Gaz. vol. 150; p. 581.
Insulator for high-potential circuits. J. N. Kelman. No. 949,184; Feb. 15; Sp. p. 2951; Gaz. vol. 151; p. 522.
Insulator for high-tension transmission systems. J. E. Noeggerath. No. 974,177; Nov. 1; Sp. p. 148; Gaz. vol. 160; p. 27.
Insulator for railway-trucks. J. M. Wood. No. 957,133; May 3; Sp. p. 1347; Gaz. vol. 154; p. 216.
Insulator, Knob-. S. P. Grace. No. 948,321; Feb. 8; Sp. p. 1126; Gaz. vol. 151; p. 207.
Insulator, Mine-. C. W. Speakman. No. 971,322; Sept. 27; Sp. p. 4624; Gaz. vol. 158; p. 810.
Insulator-protecting apparatus. L. C. Nicholson. No. 954,329; Apr. 5; Sp. p. 1351; Gaz. vol. 153; p. 224.
Insulator-protecting apparatus. L. C. Nicholson. No. 966,583; Aug. 9; Sp. p. 1614; Gaz. vol. 157; p. 275.
Insulator-protecting apparatus. L. C. Nicholson. No. 966,584; Aug. 9; Sp. p. 1616; Gaz. vol. 157; p. 275.
Insulator, Section-. R. S. McFeely. No. 948,899; Feb. 8; Sp. p. 2363; Gaz. vol. 151; p. 401.
Insulator, Strain-. M. M. Wood. No. 951,354; Mar. 8; Sp. p. 1814; Gaz. vol. 152; p. 318.
Insulator, Strain-. L. Steinberger. No. 974,610; Nov. 1; Sp. p. 1210; Gaz. vol. 160; p. 186.
Insulator-support. J. Blackburn. No. 964,376; July 12; Sp. p. 2904; Gaz. vol. 156; p. 480.
Insulator-support. W. R. Thompson. No. 974,207; Nov. 1; Sp. p. 237; Gaz. vol. 160; p. 38.
Insulator, Tree-. A. L. Pierce. No. 971,785; Oct. 4; Sp. p. 575; Gaz. vol. 159; p. 100.
Insulators, Attachment of telegraph and similar line wires to. W. E. Bandfield. No. 966,882; Aug. 9; Sp. p. 2280; Gaz. vol. 157; p. 374.
Insulators, Machine for threading porcelain. G. F. Young. No. 954,490; Apr. 12; Sp. p. 1695; Gaz. vol. 153; p. 306.
Insulators, Means for visibly indicating faulty. C. Linke. No. 967,649; Aug. 16; Sp. p. 3856; Gaz. vol. 157; p. 662.
Insulators, Suspension device for. A. O. Austin. No. 947,274; Jan. 25; Sp. p. 5035; Gaz. vol. 150; p. 851.
Integrating device. H. L. Merrick. No. 954,869; Apr. 12; Sp. p. 2578; Gaz. vol. 153; p. 439.
Integrating device. H. L. Merrick. No. 954,870; Apr. 12; Sp. p. 2581; Gaz. vol. 153; p. 439.
Interchangeable-key lock. E. J. Prindle. No. 953,641; Mar. 29; Sp. p. 6583; Gaz. vol. 152; p. 1176.
Interest-bearing instrument, Negotiable. J. E. Hanzlik. No. 967,016; Aug. 9; Sp. p. 2554; Gaz. vol. 157; p. 420.
Interleaving mechanism. W. L. Saunders. No. 963,946; July 12; Sp. p. 2028; Gaz. vol. 156; p. 334.
Interlining and bust-form, Combined. M. Goldstein. No. 963,367; July 5; Sp. p. 807; Gaz. vol. 156; p. 119.
Interlocking mechanism. L. R. Winslow. No. 963,103; July 5; Sp. p. 175; Gaz. vol. 156; p. 27.
Interlocking switch. A. C. Savage. No. 957,262; May 10; Sp. p. 1655; Gaz. vol. 154; p. 291.
Intermittent-motion device. A. F. Hamacek. No. 966,090; Aug. 2; Sp. p. 525; Gaz. vol. 157; p. 85.
Internal clamp. W. J. Frost. No. 969,098; Aug. 30; Sp. p. 6926; Gaz. vol. 157; p. 1206.
Internal-combustion engine. S. B. D. Harding. No. 945,232; Jan. 4; Sp. p. 468; Gaz. vol. 150; p. 77.
Internal-combustion engine. F. G. Hatch. No. 945,233; Jan. 4; Sp. p. 469; Gaz. vol. 150; p. 78.
Internal-combustion engine. W. H. Hollopeter. No. 945,393; Jan. 4; Sp. p. 844; Gaz. vol. 150; p. 131.
Internal-combustion engine. H. H. Simon. No. 946,158; Jan. 11; Sp. p. 2522; Gaz. vol. 150; p. 421.
Internal-combustion engine. A. A. Low and H. Hertzberg. No. 946,239; Jan. 11; Sp. p. 2704; Gaz. vol. 150; p. 450.
Internal-combustion engine. P. D. Johnston. No. 946,780; Jan. 18; Sp. p. 3950; Gaz. vol. 150; p. 657.
Internal-combustion engine. F. W. Brady. No. 947,633; Jan. 25; Sp. p. 5863; Gaz. vol. 150; p. 973.
Internal-combustion engine. E. C. Bennett. No. 948,103; Feb. 1; Sp. p. 677; Gaz. vol. 151; p. 110.
Internal-combustion engine. F. Reaugh. No. 948,248; Feb. 1; Sp. p. 952; Gaz. vol. 151; p. 157.
Internal-combustion engine. H. A. Burt. No. 948,308; Feb. 8; Sp. p. 1102; Gaz. vol. 151; p. 203.
Internal-combustion engine. E. Moore. No. 948,336; Feb. 8; Sp. p. 1152; Gaz. vol. 151; p. 212.
Internal-combustion engine. C. E. Duryea. No. 949,758; Feb. 22; Sp. p. 4136; Gaz. vol. 151; p. 748.
Internal-combustion engine. G. McDowell. No. 950,297; Feb. 22; Sp. p. 5336; Gaz. vol. 151; p. 936.
Internal-combustion engine. O. A. Stranahan. No. 950,683; Mar. 1; Sp. p. 465; Gaz. vol. 152; p. 75.
Internal-combustion engine. A. Duffy. No. 951,181; Mar. 8; Sp. p. 1451; Gaz. vol. 152; p. 263.
Internal-combustion engine. G. J. Loomis. No. 951,252; Mar. 8; Sp. p. 1591; Gaz. vol. 152; p. 284.
Internal-combustion engine. L. F. Sleade. No. 952,438; Mar. 15; Sp. p. 3969; Gaz. vol. 152; p. 710.
Internal-combustion engine. R. Lucas. No. 952,706; Mar. 22; Sp. p. 4584; Gaz. vol. 152; p. 831.
Internal-combustion engine. E. C. Richard. No. 954,208; Apr. 5; Sp. p. 1104; Gaz. vol. 153; p. 183.
Internal-combustion engine. E. T. Gilliard. 955,151; Apr. 19; Sp. p. 3139; Gaz. vol. 153; p. 564.
Internal-combustion engine. T. Cooper. No. 955,767; Apr. 19; Sp. p. 4482; Gaz. vol. 153; p. 773.
Internal-combustion engine. O. E. Frear. No. 955,786; Apr. 19; Sp. p. 4516; Gaz. vol. 153; p. 780.
Internal-combustion engine. A. W. Nichols. No. 956,405; Apr. 26; Sp. p. 5890; Gaz. vol. 153; p. 1024.
Internal-combustion engine. R. M. Roof. No. 956,423; Apr. 26; Sp. p. 5920; Gaz. vol. 153; p. 1030.
Internal-combustion engine. J. H. Hopkins. No. 956,967; May 3; Sp. p. 1022; Gaz. vol. 154; p. 160.
Internal-combustion engine. C. W. Higgs. No. 957,336; May 10; Sp. p. 1821; Gaz. vol. 154; p. 317.
Internal-combustion engine. P. Daniel. No. 957,657; May 10; Sp. p. 2455; Gaz. vol. 154; p. 425.
Internal-combustion engine. N. Metz. No. 957,788; May 10; Sp. p. 2737; Gaz. vol. 154; p. 469.
Internal-combustion engine. O. A. Stranahan. No. 959,084; May 24; Sp. p. 5798; Gaz. vol. 154; p. 972.
Internal-combustion engine. L. T. Rasmussen. No. 959,805; May 31; Sp. p. 7305; Gaz. vol. 154; p. 1237.
Internal-combustion engine. C. A. Bennett. No. 960,254; June 7; Sp. p. 20; Gaz. vol. 155; p. 7.
Internal-combustion engine. J. E. Gilson. No. 960,536; June 7; Sp. p. 613; Gaz. vol. 155; p. 99.
Internal-combustion engine. W. W. Morse. No. 961,152; June 14; Sp. p. 1837; Gaz. vol. 155; p. 333.
Internal-combustion engine. J. W. Bradley. No. 961,677; June 14; Sp. p. 2967; Gaz. vol. 155; p. 513.
Internal-combustion engine. G. J. Altham. No. 962,110; June 21; Sp. p. 3916; Gaz. vol. 155; p. 683.
Internal-combustion engine. F. E. Dayes. No. 962,131; June 21; Sp. p. 3974; Gaz. vol. 155; p. 690.

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Internal-combustion engine. E. A. Rundlof. No. 963,071; July 5; Sp. p. 86; Gaz. vol. 156; p. 17.
Internal-combustion engine. K. J. E. Hesselman. No. 963,225; July 5; Sp. p. 503; Gaz. vol. 156; p. 71.
Internal-combustion engine. J. Loftus. No. 963,449; July 5; Sp. p. 976; Gaz. vol. 156; p. 146.
Internal-combustion engine. H. Eason. No. 963,880; July 12; Sp. p. 1911; Gaz. vol. 156; p. 314
Internal-combustion engine. H. C. Gibson. No. 965,135; July 19; Sp. p. 4609; Gaz. vol. 156; p. 768.
Internal-combustion engine. A. Butsch. No. 966,309; Aug. 2; Sp. p. 974; Gaz. vol. 157; p. 156.
Internal-combustion engine. E. A. Rundlöf. No. 966,362; Aug. 2; Sp. p. 1077; Gaz. vol. 157; p. 173.
Internal-combustion engine. J. A. Nickelson. No. 966,948; Aug. 9; Sp. p. 2403; Gaz. vol. 157; p. 395.
Internal-combustion engine. S. Wiebe. No. 966,972; Aug. 9; Sp. p. 2456; Gaz. vol. 157; p. 404.
Internal-combustion engine. P. V. Woodward. No. 967,097; Aug. 9; Sp. p. 2716; Gaz. vol. 157; p. 447.
Internal-combustion engine. C. Y. Knight. No. 968,166; Aug. 23; Sp. p. 4978; Gaz. vol. 157; p. 859.
Internal-combustion engine. A. F. Scott. No. 968,200; Aug. 23; Sp. p. 5048; Gaz. vol. 157; p. 870.
Internal-combustion engine. T. J. Shanahan. No. 968,274; Aug. 23; Sp. p. 5209; Gaz. vol. 157; p. 897.
Internal-combustion engine. T. A. Martin. No. 968,380; Aug. 23; Sp. p. 5413; Gaz. vol. 157; p. 934.
Internal-combustion engine. T. Reuter. No. 968,690; Aug. 30; Sp. p. 6110; Gaz. vol. 157; p. 1068.
Internal-combustion engine. G. Schimming. No. 968,695; Aug. 30; Sp. p. 6129; Gaz. vol. 157; p. 1070.
Internal-combustion engine. S. Lake. No. 970,063; Sept. 13; Sp. p. 1990; Gaz. vol. 158; p. 338.
Internal-combustion engine. L. A. Martha. No. 970,251; Sept. 13; Sp. p. 2387; Gaz. vol. 158; p. 402.
Internal-combustion engine. H. and C. E. Merrett. No. 970,937; Sept. 20; Sp. p. 3836; Gaz. vol. 158; p. 654.
Internal-combustion engine. T. Reuter. No. 971,793; Oct. 4; Sp. p. 591; Gaz. vol. 159; p. 103.
Internal-combustion engine. D. Roberts and C. James. No. 972,024; Oct. 4; Sp. p. 1129; Gaz. vol. 159; p. 190.
Internal-combustion engine. G. F. Swan. No. 972,409; Oct. 11; Sp. p. 1937; Gaz. vol. 159; p. 340.
Internal-combustion engine. C. W. Foster. No. 972,841; Oct. 18; Sp. p. 2894; Gaz. vol. 159; p. 514.
Internal-combustion engine. M. L. Williams. No. 972,966; Oct. 18; Sp. p. 3217; Gaz. vol. 159; p. 560.
Internal-combustion engine. W. J. O. Johnson. No. 973,048; Oct. 18; Sp. p. 3395; Gaz. vol. 159; p. 588.
Internal-combustion engine. C. H. Sergeant. No. 973,140; Oct. 18; Sp. p. 3592; Gaz. vol. 159; p. 620.
Internal-combustion engine. C. E. Fogg. No. 973,268; Oct. 18; Sp. p. 3880; Gaz. vol. 159; p. 663.
Internal-combustion engine. T. H. Haberkorn. No. 973,651; Oct. 25; Sp. p. 4707; Gaz. vol. 159; p. 818.
Internal-combustion engine. J. W. Akerman. No. 974,544; Nov. 1; Sp. p. 1085; Gaz. vol. 160; p. 163.
Internal-combustion engine. H. F. Bock. No. 974,853; Nov. 8; Sp. p. 1753; Gaz. vol. 160; p. 292.
Internal-combustion engine. G. M. Perlewitz. No. 975,275; Nov. 8; Sp. p. 2700; Gaz. vol. 160; p. 437.
Internal-combustion engine. C. R. Radcliffe. No. 975,796; Nov. 15; Sp. p. 3802; Gaz. vol. 160; p. 641.
Internal-combustion engine. T. Veitch. No. 975,809; Nov. 15; Sp. p. 3829; Gaz. vol. 160; p. 645.
Internal-combustion engine. W. Johnson. No. 976,180; Nov. 22; Sp. p. 4615; Gaz. vol. 160; p. 794.
Internal-combustion engine. P. M. Allmon. No. 976,770; Nov. 22; Sp. p. 5915; Gaz. vol. 160; p. 998.
Internal-combustion engine. E. Easthope, Jr. No. 976,858; Nov. 29; Sp. p. 6117; Gaz. vol. 160; p. 1053.
Internal-combustion engine. J. E. Sears, Jr. No. 977,334; Nov. 29; Sp. p. 7162; Gaz. vol. 160; p. 1218.
Internal-combustion engine. L. E. Wright. No. 977,847; Dec. 6; Sp. p. 923; Gaz. vol. 161; p. 146.
Internal-combustion engine. J. V. Laviolette. No. 977,885; Dec. 6; Sp. p. 1009; Gaz. vol. 161; p. 159.
Internal-combustion engine. P. Peterson. No. 978,058; Dec. 6; Sp. p. 1368; Gaz. vol. 161; p. 220.
Internal-combustion engine. A. H. Webber. No. 978,969; Dec. 20; Sp. p. 3352; Gaz. vol. 161; p. 589.
Internal-combustion engine. J. A. Viele. No. 979,359; Dec. 20; Sp. p. 4194; Gaz. vol. 161; p. 723.
Internal-combustion engine. A. Peteler. No. 979,794; Dec. 27; Sp. p. 5155; Gaz. vol. 161; p. 894.
Internal-combustion engine and operating the same. L. G. Sabathé. No. 975,640; Nov. 15; Sp. p. 3475; Gaz. vol. 160; p. 589.
Internal-combustion engine, Compound. R. M. Pierson. No. 967,828; Aug. 16; Sp. p. 4221; Gaz. vol. 157; p. 722.
Internal-combustion engine, Four-cycle. R. Miller. No. 979,082; Dec. 20; Sp. p. 3595; Gaz. vol. 161; p. 626.
Internal-combustion engine, Liquid-fuel. L. Wygodsky. No. 971,954; Oct. 4; Sp. p. 985; Gaz. vol. 159; p. 165.
Internal-combustion engine of the two-cycle type. A. G. Scholes. No. 967,250; Aug. 16; Sp. p. 3045; Gaz. vol. 157; p. 526.
Internal-combustion engine, Reversible. F. T. Flinchbaugh. No. 967,749; Aug. 16; Sp. p. 4067; Gaz. vol. 157; p. 696.
Internal-combustion engine, Rotary multiple-cylinder. J. A. Waltman. No. 975,485; Nov. 15; Sp. p. 3129; Gaz. vol. 160; p. 535.
Internal-combustion engine, Two-cycle. E. A. Meyer. No. 956,814; May 3; Sp. p. 683; Gaz. vol. 154; p. 107.
Internal-combustion engine, Two-cycle. C. E. Maud. No. 980,110; Dec. 27; Sp. p. 5840; Gaz. vol. 161; p. 999.
Internal-combustion engine, Two-stroke-cycle. G. Enderby. No. 955,144; Apr. 19; Sp. p. 3124; Gaz. vol. 153; p. 561.
Internal-combustion motor. C. A. and O. W. Hult. No. 957,965; May 17; Sp. p. 3174; Gaz. vol. 154; p. 560.
Internal-combustion motor. D. J. McKinnon. No. 973,800; Oct. 25; Sp. p. 5006; Gaz. vol. 159; p. 870.
Internal-combustion motor or engine. H. W. Rowing and V. W. Riley. No. 966,953; Aug. 9; Sp. p. 2411; Gaz. vol. 157; p. 396.
Internal-combustion motor, Two-cycle. F. Lamplough. No. 979,971; Dec. 27; Sp. p. 5513; Gaz. vol. 161; p. 953.
Intestine-cleaning machine. E. O. Freund. No. 973,348; Oct. 18; Sp. p. 4044; Gaz. vol. 159; p. 692.
Intestines, Apparatus for treating and measuring. H. Eberhardt. No. 964,006; July 12; Sp. p. 2173; Gaz. vol. 156; p. 355.
Invalid-chair. C. F. Walker. No. 961,389; June 14; Sp. p. 2358; Gaz. vol. 155; p. 417.
Invalid-lifter, Hydraulic. T. M. Smith. No. 976,307; Nov. 22; Sp. p. 4931; Gaz. vol. 160; p. 840.
Invalid-lifting apparatus. G. White. No. 977,243; Nov. 29; Sp. p. 6991; Gaz. vol. 160; p. 1188.
Invalid raising and moving device. C. W. Lane. No. 953,962; Apr. 5; Sp. p. 544; Gaz. vol. 153; p. 98.
Invalid-rest. H. Fuchs. No. 969,099; Aug. 30; Sp. p. 6926; Gaz. vol. 157; p. 1206.
Invalid's chair. R. M. Olmsted. No. 956,155; Apr. 26; Sp. p. 5348; Gaz. vol. 153; p. 939.
Inverted-mantle burner. R. E. Bruckner. No. 979,742; Dec. 27; Sp. p. 5025; Gaz. vol. 161; p. 877.
Iron: *See* Baking-iron; Carriage-iron; Curling-iron; Electric iron; Flat-iron; Gas-heated iron; Laundry-iron; Sad-iron; Self-heating iron; Smoothing-iron; Soldering-iron; Thill-iron; Twyer-iron; Waffle-iron.
Iron-albumin-glycerophosphate and making same. E. Fischer. No. 972,523; Oct. 11; Sp. p. 2200; Gaz. vol. 159; p. 380.
Iron, Double-corrugated sheet-. K. Knutson. No. 948,733; Feb. 8; Sp. p. 2020; Gaz. vol. 151; p. 346.
Iron from its ores, Extracting. S. G. Martin. No. 975,625; Nov. 15; Sp. p. 3441; Gaz. vol. 160; p. 584.
Iron from ores and preparing iron alloys, Recovering. A. S. Ramage. No. 949,004; Feb. 15; Sp. p. 2578; Gaz. vol. 151; p. 463.
Iron heater and cover. W. Kretzmann. No. 951,568; Mar. 8; Sp. p. 2245; Gaz. vol. 152; p. 390.
Iron holder, Smoothing-. E. G. Patten. No. 948,595; Feb. 8; Sp. p. 1725; Gaz. vol. 151; p. 299.
Iron into steel, Composition for converting. G. F. Diez. No. 950,095; Feb. 22; Sp. p. 4925; Gaz. vol. 151; p. 866.
Iron, Melting and refining. H. Johnson. No. 952,260; Mar. 15; Sp. p. 3625; Gaz. vol. 152; p. 651.
Iron or steel articles, Bluing. M. Rees. No. 949,500; Feb. 15; Sp. p. 3604; Gaz. vol. 151; p. 628.
Iron or steel articles, Treating. H. Howard. No. 949,575; Feb. 15; Sp. p. 3764; Gaz. vol. 151; p. 654.
Iron or steel, Treatment of. W. R. Hodgkinson. No. 946,360; Jan. 11; Sp. p. 2962; Gaz. vol. 150; p. 492.
Iron ores and the like for smelting in blast-furnaces and use in open-hearth furnaces, Apparatus and process for preparing pulverous. S. Cornell. No. 962,006; June 21; Sp. p. 3672; Gaz. vol. 155; p. 646.
Iron ores, Cleaning. E. F. Goltra. No. 957,157; May 3; Sp. p. 1394; Gaz. vol. 154; p. 224.
Iron ores, Cleaning. E. F. Goltra. No. 961,121; June 14; Sp. p. 1783; Gaz. vol. 155; p. 323.
Iron ores, Reducing. C. B. Morgan. No. 947,448; Jan. 25; Sp. p. 5436; Gaz. vol. 150; p. 910.
Iron, Refining. F. W. Hawkins and G. F. Key. No. 949,474; Feb. 15; Sp. p. 3559; Gaz. vol. 151; p. 620.
Iron, Refining. J. Flohr. No. 968,758; Aug. 30; Sp. p. 6247; Gaz. vol. 157; p. 1092.
Iron-refining furnace. F. W. Hawkins and G. F. Key. No. 949,475; Feb. 15; Sp. p. 3561; Gaz. vol. 151; p. 620.
Iron tank, Galvanized-. G. A. and A. F. Trachte. No. 956,908; May 3; Sp. p. 895; Gaz. vol. 154; p. 141.
Iron, Vulcanizing. W. L. Dinsmoor. No. 954,425; Apr. 12; Sp. p. 1539; Gaz. vol. 153; p. 283.
Iron waste, Treating cast-. H. W. Lash. No. 978,906; Dec. 20; Sp. p. 3184; Gaz. vol. 161; p. 566.
Ironing and dressing machine. T. G. Plant. No. 958,304; May 17; Sp. p. 4148; Gaz. vol. 154; p. 680.
Ironing and pressing machine. P. Jonesku. No. 973,789; Oct. 25; Sp. p. 4982; Gaz. vol. 159; p. 866.
Ironing-board. I. B. Jennings. No. 948,479; Feb. 8; Sp. p. 1469; Gaz. vol. 151; p. 261.
Ironing-board. C. E. Call. No. 949,646; Feb. 15; Sp. p. 3887; Gaz. vol. 151; p. 677.
Ironing-board. G. Wynder. No. 950,087; Feb. 22; Sp. p. 4913; Gaz. vol. 151; p. 864.
Ironing-board. M. M. Kane. No. 951,247; Mar. 8; Sp. p. 1576; Gaz. vol. 152; p. 283.

Ironing-board. A. M. Garman. No. 952,427; Mar. 15; Sp. p. 3950; Gaz. vol. 152; p. 707.
Ironing-board. T. A. Davis. No. 954,261; Apr. 5; Sp. p. 1197; Gaz. vol. 153; p. 200.
Ironing-board. F. V. Shampine. No. 954,349; Apr. 5; Sp. p. 1392; Gaz. vol. 153; p. 230.
Ironing-board. W. F. Cash. No. 955,052; Apr. 12; Sp. p. 2946; Gaz. vol. 153; p. 499.
Ironing-board. B. W. Ross. No. 955,554; Apr. 19; Sp. p. 4002; Gaz. vol. 153; p. 701.
Ironing-board. S. T. Knapp. No. 956,104; Apr. 26; Sp. p. 5234; Gaz. vol. 153; p. 920.
Ironing-board. J. A. Bean. No. 957,537; May 10; Sp. p. 2225; Gaz. vol. 154; p. 385.
Ironing-board. B. M. Bain. No. 958,071; May 17; Sp. p. 3557; Gaz. vol. 154; p. 599.
Ironing-board. J. A. Lowe. No. 960,101; May 31; Sp. p. 7973; Gaz. vol. 154; p. 1339.
Ironing-board. A. D. Williams. No. 960,213; May 31; Sp. p. 8189; Gaz. vol. 154; p. 1378.
Ironing-board. G. F. Neher. No. 963,381; July 5; Sp. p. 834; Gaz. vol. 156; p. 123.
Ironing-board. H. L. Pendleton. No. 963,644; July 5; Sp. p. 1368; Gaz. vol. 156; p. 212.
Ironing-board. G. Wynder. No. 965,548; July 26; Sp. p. 5530; Gaz. vol. 156; p. 941.
Ironing-board. C. B. O'Bleness. No. 969,112; Aug. 30; Sp. p. 6958; Gaz. vol. 157; p. 1211.
Ironing-board. O. M. Cline. No. 969,684; Sept. 6; Sp. p. 1128; Gaz. vol. 158; p. 182.
Ironing-board. G. E. Lilly and G. H. Hartmann. No. 971,857; Oct. 4; Sp. p. 734; Gaz. vol. 159; p. 128.
Ironing-board. H. W. Funk. No. 972,356; Oct. 11; Sp. p. 1823; Gaz. vol. 159; p. 320.
Ironing-board. A. T. Lutz. No. 973,949; Oct. 25; Sp. p. 5311; Gaz. vol. 159; p. 922.
Ironing-board. J. D. St. Pierre and E. C. Gauvin. No. 974,443; Nov. 1; Sp. p. 837; Gaz. vol. 160; p. 124.
Ironing-board. A. E. J. Weaver. No. 978,342; Dec. 13; Sp. p. 2006; Gaz. vol. 161; p. 349.
Ironing-board. S. J. Wever. No. 979,621; Dec. 27; Sp. p. 4764; Gaz. vol. 161; p. 836.
Ironing-board, Adjustable. J. G. Kirkpatrick. No. 955,083; Apr. 12; Sp. p. 2998; Gaz. vol. 153; p. 508.
Ironing-board and step-ladder, Combined. J. N. Kelly. No. 967,198; Aug. 16; Sp. p. 2946; Gaz. vol. 157; p. 509.
Ironing-board and washstand, Combined. J. H. Havecotte. No. 950,104; Feb. 22; Sp. p. 4931; Gaz. vol. 151; p. 869.
Ironing-board bracket. J. H. Frederick. No. 972,355; Oct. 11; Sp. p. 1822; Gaz. vol. 159; p. 320.
Ironing-board, Electromagnetic. E. S. Clayton. No. 949,351; Feb. 15; Sp. p. 3303; Gaz. vol. 151; p. 579.
Ironing-board, Folding. G. L. Baxter. No. 976,621; Nov. 22; Sp. p. 5605; Gaz. vol. 160; p. 948.
Ironing-board sleeve-board attachment. J. E. Kalgren. No. 965,635; July 26; Sp. p. 5718; Gaz. vol. 156; p. 972.
Ironing-board, step-ladder, and clothes-rack, Combined. A. A. Francis. No. 968,843; Aug. 30; Sp. p. 6414; Gaz. vol. 157; p. 1118.
Ironing-boards, &c., Support for. W. A. Kuhnert. No. 976,662; Nov. 22; Sp. p. 5691; Gaz. vol. 160; p. 962.
Ironing-cabinet. C. D. Booton. No. 970,174; Sept. 13; Sp. p. 2200; Gaz. vol. 158; p. 374.
Ironing-machine. S. J. Miller. No. 950,399; Feb. 22; Sp. p. 5528; Gaz. vol. 151; p. 968.
Ironing-machine. G. H. Wade. No. 950,971; Mar. 1; Sp. p. 1066; Gaz. vol. 152; p. 170.
Ironing-machine. C. B. Gartrell. No. 959,335; May 24; Sp. p. 6310; Gaz. vol. 154; p. 1055.
Ironing-machine. W. French. No. 961,489; June 14; Sp. p. 2583; Gaz. vol. 155; p. 450.
Ironing-machine. H. Price. No. 962,525; June 28; Sp. p. 4830; Gaz. vol. 155; p. 849.
Ironing-machine. G. H. Bell. No. 965,857; Aug. 2; Sp. p. 20; Gaz. vol. 157; p. 6.
Ironing-machine. W. M. Barnes. No. 967,307; Aug. 16; Sp. p. 3151; Gaz. vol. 157; p. 545.
Ironing-machine. D. H. Benjamin and J. W. Gilbert. No. 967,310; Aug. 16; Sp. p. 3155; Gaz. vol. 157; p. 546.
Ironing-machine. T. A. Elphick. No. 972,521; Oct. 11; Sp. p. 2197; Gaz. vol. 159; p. 379.
Ironing-stand. W. Bennett. No. 952,297; Mar. 15; Sp. p. 3708; Gaz. vol. 152; p. 663.
Ironing-table. A. H. Hauser. No. 949,894; Feb. 22; Sp. p. 4459; Gaz. vol. 151; p. 797.
Ironing-table. B. Warshaw. No. 951,263; Mar. 8; Sp. p. 1611; Gaz. vol. 152; p. 288.
Ironing-table. C. H. Ellis. No. 954,565; Apr. 12; Sp. p. 1853; Gaz. vol. 153; p. 331.
Ironing-table. J. W. Miller. No. 955,526; Apr. 19; Sp. p. 3943; Gaz. vol. 153; p. 692.
Ironing-table. J. McGuigan. No. 957,439; May 10; Sp. p. 2028; Gaz. vol. 154; p. 351.
Ironing-table. J. A. Beach. No. 960,783; June 7; Sp. p. 1102; Gaz. vol. 155; p. 184.
Ironing-table. V. O. Crawford. No. 961,404; June 14; Sp. p. 2379; Gaz. vol. 155; p. 421.
Ironing-table. L. Frederick. No. 969,615; Sept. 6; Sp. p. 992; Gaz. vol. 158; p. 158.
Ironing-table. G. Foster. No. 970,207; Sept. 13; Sp. p. 2284; Gaz. vol. 158; p. 386.
Ironing-table. J. W. Mills. No. 971,462; Sept. 27; Sp. p. 4881; Gaz. vol. 158; p. 855.
Ironing-table. A. J. Foster. No. 976,997; Nov. 29; Sp. p. 6461; Gaz. vol. 160; p. 1102.
Ironing-table. F. G. Hoffine. No. 978,885; Dec. 20; Sp. p. 3145; Gaz. vol. 161; p. 559.
Ironing table and the like. J. Bedotto. No. 965,856; Aug. 2; Sp. p. 18; Gaz. vol. 157; p. 6.
Irrigating apparatus. C. Bevill. No. 959,914; May 31; Sp. p. 7550; Gaz. vol. 154; p. 1275.
Irrigating apparatus. H. M. Cheek. No. 971,879; Oct. 4; Sp. p. 781; Gaz. vol. 159; p. 136.
Irrigating-ditches, Head-gate for. D. A. Callaway. No. 947,326; Jan. 25; Sp. p. 5158; Gaz. vol. 150; p. 871.
Irrigating-gutter. C. Diehl. No. 958,479; May 17; Sp. p. 4526; Gaz. vol. 154; p. 741.
Irrigating-pipe gate. H. E. Worley. No. 969,320; Sept. 6; Sp. p. 354; Gaz. vol. 158; p. 58.
Irrigation apparatus. E. Olsson. No. 958,937; May 24; Sp. p. 5498; Gaz. vol. 154; p. 922.
Irrigation device. N. E. Austin. No. 966,069; Aug. 2; Sp. p. 488; Gaz. vol. 157; p. 78.
Irrigation, Diffusion-block for subsoil. B. Ziller. No. 968,225; Aug. 23; Sp. p. 5099; Gaz. vol. 157; p. 879.
Irrigation-ditches, Head-gate for. G. L. Kinser. No. 950,138; Feb. 22; Sp. p. 5008; Gaz. vol. 151; p. 880.
Irrigation-pipe. J. L. Wiggins. No. 953,080; Mar. 29; Sp. p. 5361; Gaz. vol. 152; p. 986.
Irrigation system. P. W. Sweeney and O. J. Kennedy. No. 954,059; Apr. 5; Sp. p. 755; Gaz. vol. 153; p. 132.
Irrigation system. M. P. McCulloch. No. 970,383; Sept. 13; Sp. p. 2636; Gaz. vol. 158; p. 445.
Irrigation system. W. A. Lee. No. 976,473; Nov. 22; Sp. p. 5291; Gaz. vol. 160; p. 898.
Ivory-nuts, Dividing. C. J. Spill. No. 978,501; Dec. 13; Sp. p. 2342; Gaz. vol. 161; p. 404.
Ivory-nuts, Sawing-machine and art of sawing. C. J. Spill. No. 978,408; Dec. 13; Sp. p. 2143; Gaz. vol. 161; p. 373.
Jack: *See* Automobile-jack; Beef-jack; Bolt-jack; Bootjack; Boot and shoe ironing and dressing jack; Builder's jack; Car-jack; Engine-starting jack; Floor-jack; Hydraulic jack; Last-jack; Lifting-jack; Logging-jack; Pipe-jack; Pulling-jack; Pump-jack; Rail-jack; Ratchet-jack; Relasting-jack; Rotary jack; Screw-jack; Shoejack; Shoe-machine jack; Shoe-supporting jack; Smokejack; Switchboard-jack; Tie-jack; Tie-spacing jack; Tire-protector jack; Track-adjusting jack; Wagon-jack.
Jack. O. B. Mueller. No. 952,130; Mar. 15; Sp. p. 3378; Gaz. vol. 152; p. 607.
Jack. J. Corbitt. No. 953,596; Mar. 29; Sp. p. 6495; Gaz. vol. 152; p. 1160.
Jack. J. Dixon. No. 959,320; May 24; Sp. p. 6273; Gaz. vol. 154; p. 1050.
Jack. W. B. Templeton. No. 961,909; June 21; Sp. p. 3468; Gaz. vol. 155; p. 614.
Jack. W. B. Templeton. No. 961,910; June 21; Sp. p. 3471; Gaz. vol. 155; p. 614.
Jack. O. Greenstran. No. 962,506; June 28; Sp. p. 4787; Gaz. vol. 155; p. 843.
Jack. L. Willour. No. 968,223; Aug. 23; Sp. p. 5097; Gaz. vol. 157; p. 878.
Jack. J. Mosiman. No. 968,254; Aug. 23; Sp. p. 5163; Gaz. vol. 157; p. 889.
Jack. L. Willour. No. 976,239; Nov. 22; Sp. p. 4768; Gaz. vol. 160; p. 817.
Jack. E. I. Chatwell. No. 977,596; Dec. 6; Sp. p. 413; Gaz. vol. 161; p. 61.
Jack. L. C. Berman. No. 978,544; Dec. 13; Sp. p. 2432; Gaz. vol. 161; p. 418.
Jack and drop, Combined. C. D. Enochs. No. 949,820; Feb. 22; Sp. p. 4274; Gaz. vol. 151; p. 770.
Jack and restoring-trip, Combined. E. J. Grenier. No. 954,624; Apr. 12; Sp. p. 1988; Gaz. vol. 153; p. 351.
Jack and truck, Combined. W. Beckert. No. 968,315; Aug. 23; Sp. p. 5291; Gaz. vol. 157; p. 912.
Jack and truck, Combined. W. Beckert. No. 968,316; Aug. 23; Sp. p. 5292; Gaz. vol. 157; p. 912.
Jack and wheel-support. F. M. Reynolds. No. 967,675; Aug. 16; Sp. p. 3906; Gaz. vol. 157; p. 670.
Jack-block. J. A. Gray. No. 952,325; Mar. 15; Sp. p. 3755; Gaz. vol. 152; p. 673.
Jack-box, Cordless. H. O. Rugh. No. 951,918; Mar. 15; Sp. p. 2981; Gaz. vol. 152; p. 539.
Jack for repair-shops. G. W. Pond. No. 946,067; Jan. 11; Sp. p. 2336; Gaz. vol. 150; p. 389.
Jack for slugging and other machines. W. C. Stewart. No. 958,031; May 17; Sp. p. 3386; Gaz. vol. 154; p. 585.
Jack-locking device. A. Bates and J. P. Pride. No. 949,460; Feb. 15; Sp. p. 3520; Gaz. vol. 151; p. 615.
Jack-post, Self-bracing. W. Schrier. No. 968,269; Aug. 23; Sp. p. 5202; Gaz. vol. 157; p. 895.
Jack-screw, Ball-bearing. O. E. Tidd. No. 964,824; July 19; Sp. p. 3989; Gaz. vol. 156; p. 664.
Jacquard. L. L. F. Malhère. No. 955,177; Apr. 19; Sp. p. 3191; Gaz. vol. 153; p. 573.
Jacquard apparatus. B. Salzer and G. Walther. No. 963,183; July 5; Sp. p. 397; Gaz. vol. 156; p. 56.

Alphabetical list of inventions—Continued.

Jacquard-machine. T. M. Morrow. No. 955,664; Apr. 19; Sp. p. 4272; Gaz. vol. 153; p. 738.
Jail-bar. W. F. Klett. No. 971,900; Oct. 4; Sp. p. 840; Gaz. vol. 159; p. 144.
Jail-cell walls, Interchangeable bottom for. D. F. Youngblood. No. 956,787; May 3; Sp. p. 610; Gaz. vol. 154; p. 98.
Jar: *See* Cracker-jar; Fruit-jar; Glass jar.
Jar box, Milk-. W. L. Duntley. No. 967,177; Aug. 16; Sp. p. 2900; Gaz. vol. 157; p. 502.
Jar-cap leveler. W. H. Honiss. No. 956,529; May 3; Sp. p. 42; Gaz. vol. 154; p. 10.
Jar-cap wrench. E. Smith. No. 951,204; Mar. 8; Sp. p. 1494; Gaz. vol. 152; p. 270.
Jar-closure. E. C. Hill. No. 945,952; Jan. 11; Sp. p. 2112; Gaz. vol. 150; p. 351.
Jar-closure. G. W. Dungan. No. 959,848; May 31; Sp. p. 7393; Gaz. vol. 154; p. 1252.
Jar-closure. C. T. Coll. No. 963,517; July 5; Sp. p. 1116; Gaz. vol. 156; p. 169.
Jar-closure. D. Knowlton. No. 967,936; Aug. 23; Sp. p. 4440; Gaz. vol. 157; p. 782.
Jar-closure. F. M. Belles. No. 976,623; Nov. 22; Sp. p. 5608; Gaz. vol. 160; p. 949.
Jar-closure. F. J. Mackin. No. 979,183; Dec. 20; Sp. p. 3846; Gaz. vol. 161; p. 665.
Jar cover, Fruit-. T. Maynard and D. E. Lain. No. 972,206; Oct. 11; Sp. p. 1515; Gaz. vol. 159; p. 269.
Jar-cover-removing device. W. Murray. No. 972,774; Oct. 11; Sp. p. 2738; Gaz. vol. 159; p. 466.
Jar-filler. M. C. Carson. No. 959,715; May 31; Sp. p. 7102; Gaz. vol. 154; p. 1206.
Jar-holder. O. F. Peterson. No. 945,589; Jan. 4; Sp. p. 1254; Gaz. vol. 150; p. 195.
Jar-holder. E. Smith. No. 951,203; Mar. 8; Sp. p. 1492; Gaz. vol. 152; p. 270.
Jar-holder. B. F. Bain. No. 970,365; Sept. 13; Sp. p. 2596; Gaz. vol. 158; p. 439.
Jar holder, Fruit-. E. A. Vandenburgh. No. 955,231; Apr. 19; Sp. p. 3323; Gaz. vol. 153; p. 593.
Jar holder, Fruit-. G. T. Baguley. No. 972,091; Oct. 4; Sp. p. 1252; Gaz. vol. 159; p. 212.
Jar-holding device, Fruit-. E. Lee. No. 964,978; July 19; Sp. p. 4298; Gaz. vol. 156; p. 717.
Jar or receptacle. R. H. Wolff. No. 976,021; Nov. 15; Sp. p. 4236; Gaz. vol. 160; p. 718.
Jar-top. C. R. Keeran. No. 957,064; May 3; Sp. p. 1217; Gaz. vol. 154; p. 193.
Jar-top fastener. J. J. Decker. No. 952,881; Mar. 22; Sp. p. 4949; Gaz. vol. 152; p. 891.
Jar wrench, Fruit-. A. Kahn. No. 953,467; Mar. 29; Sp. p. 6217; Gaz. vol. 152; p. 1115.
Jar wrench, Fruit-. L. J. Graffort and P. L. Hoffman. No. 976,868; Nov. 29; Sp. p. 6133; Gaz. vol. 160; p. 1057.
Jarring-machine. P. J. Conboy and J. A. Murphy. No. 950,893; Mar. 1; Sp. p. 904; Gaz. vol. 152; p. 145.
Jarring-machine. E. Killing. No. 966,691; Aug. 9; Sp. p. 1822; Gaz. vol. 157; p. 312.
Jarring-machine. L. M. Atha. No. 967,484; Aug. 16; Sp. p. 3532; Gaz. vol. 157; p. 607.
Jaw-trap. J. E. Brock. No. 956,624; May 3; Sp. p. 254; Gaz. vol. 154; p. 43.
Jaw-trap. H. Sigman. No. 966,612; Aug. 9; Sp. p. 1666; Gaz. vol. 157; p. 285.
Jewel-bar. H. W. Fishel. No. 947,897; Feb. 1; Sp. p. 257; Gaz. vol. 151; p. 42.
Jewel-cluster setting. D. I. Strelitz. No. 948,774; Feb. 8; Sp. p. 2118; Gaz. vol. 151; p. 360.
Jewel-mounting. Z. White. No. 951,926; Mar. 15; Sp. p. 2992; Gaz. vol. 152; p. 542.
Jewels or ornaments to studs, Means for securing. E. E. Kahn. No. 960,647; June 7; Sp. p. 638; Gaz. vol. 155; p. 137.
Jeweler's and dentist's burner. A. and C. Zarembowitz. No. 976,112; Nov. 15; Sp. p. 4425; Gaz. vol. 160; p. 750.
Jeweler's bench. W. J. Meyer. No. 951,506; Mar. 8; Sp. p. 2127; Gaz. vol. 152; p. 368.
Jeweler's gage. H. V. Bernhardt. No. 950,221; Feb. 22; Sp. p. 5187; Gaz. vol. 151; p. 910.
Jewelry. H. W. Fishel. No. 948,044; Feb. 1; Sp. p. 555; Gaz. vol. 151; p. 89.
Jewelry. L. E. Garrigus. No. 964,229; July 12; Sp. p. 2617; Gaz. vol. 156; p. 431.
Jewelry, &c., Machine for drying. F. P. Boland. No. 969,453; Sept. 6; Sp. p. 630; Gaz. vol. 158; p. 100.
Jewelry ornamental attachment. F. A. Rojas. No. 966,125; Aug. 2; Sp. p. 590; Gaz. vol. 157; p. 97.
Jig. W. A. Bradley. No. 957,648; May 10; Sp. p. 2437; Gaz. vol. 154; p. 422.
Jig. F. L. Buchanan. No. 962,618; June 28; Sp. p. 5035; Gaz. vol. 155; p. 880.
Joint: *See* Ankle-joint; Asphalt expansion-joint; Ball-joint; Ball-and-socket joint; Ball-bearing joint; Bed-joint; Closet-joint; Corner-joint; Curb-joint; Dust-proof joint; Electric-cable joint; Expansion-joint; Furniture-joint; Hinge-joint; Insulated joint; Insulation-joint; Lamp-joint; Leg-joint; Leg-rest joint; Miter-joint; Pin-tongue joint; Pipe-joint; Rail-joint; Rail lap-joint; Railway-joint; Railway-rail joint; Roof-joint; Rope-joint; Rotary steam-joint; Steam-joint; Strap-joint; Track-joint; Tube-joint; Universal joint.
Joint. J. Coppersmith. No. 952,608; Mar. 22; Sp. p. 4371; Gaz. vol. 152; p. 798.
Joint. W. Pence, C. R. Wolf, and V. O. Jarvis. No. 958,276; May 17; Sp. p. 3967; Gaz. vol. 154; p. 668.
Joint-chair. W. E. Ewen. No. 978,721; Dec. 13; Sp. p. 2827; Gaz. vol. 161; p. 480.
Joint-closure. F. T. Cable and T. S. Bailey. No. 954,668; Apr. 12; Sp. p. 2095; Gaz. vol. 153; p. 367.
Joint connection, Ground-. F. E. Swope, Jr. No. 946,990; Jan. 18; Sp. p. 4433; Gaz. vol. 150; p. 730.
Joint construction. D. E. Hunter. No. 960,934; June 7; Sp. p. 1384; Gaz. vol. 155; p. 233.
Joint coupling, Lock-. J. K. Bulger. No. 958,086; May 17; Sp. p. 3583; Gaz. vol. 154; p. 604.
Joint-cover. A. G. Williams. No. 946,183; Jan. 11; Sp. p. 2586; Gaz. vol. 150; p. 429.
Joint fastener and tightener. J. W. Staples. No. 973,144; Oct. 18; Sp. p. 3605; Gaz. vol. 159; p. 621.
Joint-fastening. C. H. Kimball. No. 960,340; June 7; Sp. p. 208; Gaz. vol. 155; p. 36.
Joint lock, Swing-. B. W. Stouffer. No. 961,552; June 14; Sp. p. 2716; Gaz. vol. 155; p. 471.
Joint or miter planer tool. C. R. Ladeveze. No. 959,017; May 24; Sp. p. 5645; Gaz. vol. 154; p. 949.
Joints, Waterproofing-shield for expansion-. T. A. Schaffer. No. 951,289; Mar. 8; Sp. p. 1673; Gaz. vol. 152; p. 296.
Jointers, Feed attachment for hand-. G. D. Trogdon. No. 945,062; Jan. 4; Sp. p. 113; Gaz. vol. 150; p. 20.
Jointers, Safety-guard for. A. J. Hartwick. No. 971,607; Oct. 4; Sp. p. 215; Gaz. vol. 159; p. 38.
Journal and bearing. A. J. Fisher. No. 970,030; Sept. 13; Sp. p. 1923; Gaz. vol. 158; p. 326.
Journal-bearing. E. D. Priest. No. 950,054; Feb. 22; Sp. p. 4848; Gaz. vol. 151; p. 853.
Journal-bearing. J. L., M. L., and J. O. Boyer. No. 955,248; Apr. 19; Sp. p. 3353; Gaz. vol. 153; p. 598.
Journal-bearing. B. L. Morrison. No. 957,435; May 10; Sp. p. 2023; Gaz. vol. 154; p. 350.
Journal-bearing. J. E. Yeager. No. 966,726; Aug. 9; Sp. p. 1912; Gaz. vol. 157; p. 323.
Journal-bearing, Adjustable. B. J. Carter. No. 962,124; June 21; Sp. p. 3957; Gaz. vol. 155; p. 688.
Journal-bearing mold. H. F. Schroder. No. 974,529; Nov. 1; Sp. p. 1044; Gaz. vol. 160; p. 156.
Journal-bearing mold. H. F. Schroder. No. 974,530; Nov. 1; Sp. p. 1046; Gaz. vol. 160; p. 156.
Journal-bearing sleeve, Renewable. C. S. Lockwood. No. 976,476; Nov. 22; Sp. p. 5300; Gaz. vol. 160; p. 899.
Journal-bearings, Adjustable sleeve for. C. I. Shirley. No. 962,059; June 21; Sp. p. 3789; Gaz. vol. 155; p. 665.
Journal-bearings, Lining. F. H. Howard. No. 960,328; June 7; Sp. p. 175; Gaz. vol. 155; p. 32.
Journal-box. G. W. Lewis. No. 946,237; Jan. 11; Sp. p. 2701; Gaz. vol. 150; p. 449.
Journal-box. H. A. Perkins. No. 949,910; Feb. 22; Sp. p. 4493; Gaz. vol. 151; p. 802.
Journal-box. F. Helmick. No. 950,391; Feb. 22; Sp. p. 5511; Gaz. vol. 151; p. 965.
Journal-box. T. R. McKnight. No. 950,554; Mar. 1; Sp. p. 192; Gaz. vol. 152; p. 32.
Journal-box. G. A. Woodman. No. 956,659; May 3; Sp. p. 330; Gaz. vol. 154; p. 54.
Journal-box. G. A. Woodman. No. 956,660; May 3; Sp. p. 331; Gaz. vol. 154; p. 54.
Journal-box. G. A. Woodman. No. 956,661; May 3; Sp. p. 333; Gaz. vol. 154; p. 55.
Journal-box. W. R. Buss and A. J. Fairbanks. No. 957,186; May 10; Sp. p. 1475; Gaz. vol. 154; p. 263.
Journal-box. W. Neuhs. No. 958,758; May 24; Sp. p. 5085; Gaz. vol. 154; p. 859.
Journal-box. C. L. Owen. No. 961,793; June 21; Sp. p. 3205; Gaz. vol. 155; p. 575.
Journal-box. J. M. McFadden. No. 965,398; July 26; Sp. p. 5174; Gaz. vol. 156; p. 888.
Journal-box. W. G. Dunham. No. 968,033; Aug. 23; Sp. p. 4663; Gaz. vol. 157; p. 814.
Journal-box. L. G. Woods. No. 969,933; Sept. 13; Sp. p. 1700; Gaz. vol. 158; p. 293.
Journal-box. S. J. Strid. No. 970,133; Sept. 13; Sp. p. 2115; Gaz. vol. 158; p. 360.
Journal-box. J. E. Osmer. No. 975,449; Nov. 15; Sp. p. 3059; Gaz. vol. 160; p. 522.
Journal-box brass. J. M. Rohlfing. No. 962,166; June 21; Sp. p. 4051; Gaz. vol. 155; p. 703.
Journal-box for driven shafts, Adjustable. N. Bertrand. No. 967,313; Aug. 16; Sp. p. 3165; Gaz. vol. 157; p. 548.
Journal-box for mining-cars. W. H. Bines. No. 948,003; Feb. 1; Sp. p. 464; Gaz. vol. 151; p. 75.
Journal-box for rock-shafts, Adjustable. J. I. Mengis. No. 962,447; June 28; Sp. p. 4660; Gaz. vol. 155; p. 822.
Journal-box lid. T. H. Symington. No. 952,481; Mar. 22; Sp. p. 4083; Gaz. vol. 152; p. 754.
Journal-box-lid fastener. T. H. Joye. No. 946,227; Jan. 11; Sp. p. 2673; Gaz. vol. 150; p. 444.
Journal-box-lid lock. L. L. Brown. No. 972,749; Oct. 11; Sp. p. 2693; Gaz. vol. 159; p. 457.
Journal-box, Lubricating. G. P. Simmons. No. 970,271; Sept. 13; Sp. p. 2424; Gaz. vol. 158; p. 408.

Journal-box-lubricating device. C. B. Coon. No. 946,495; Jan. 11; Sp. p. 3345; Gaz. vol. 150; p. 537.
Journal-boxes on railway-trains, Apparatus for cooling. W. P. Andrews. No. 955,743; Apr. 19; Sp. p. 4439; Gaz. vol. 153; p. 766.
Journal-boxes, Roll-cage for closed. C. S. Lockwood. No. 964,285; July 12; Sp. p. 2736; Gaz. vol. 156; p. 452.
Journal-brass. F. J. Finning. No. 948,316; Feb. 8; Sp. p. 1119; Gaz. vol. 151; p. 205.
Journal-brass. H. J. Small. No. 971,085; Sept. 27; Sp. p. 4154; Gaz. vol. 158; p. 733.
Journal-lubricating device. I. A. Randel. No. 972,719; Oct. 11; Sp. p. 2636; Gaz. vol. 159; p. 447.
Journal-lubricator. E. B. Brown. No. 969,838; Sept. 13; Sp. p. 1514; Gaz. vol. 158; p. 260.
Journal, Wheel-. W. L. Rodman. No. 975,744; Nov. 15; Sp. p. 3699; Gaz. vol. 160; p. 623.
Jug and other hinged-lid receptacle, Molasses-. J. F. Haffey. No. 952,428; Mar. 15; Sp. p. 3951; Gaz. vol. 152; p. 707.
Junction-box. T. E. Murray. No. 945,856; Jan. 11; Sp. p. 1902; Gaz. vol. 150; p. 316.
Junction-box. W. J. Graham. No. 949,426; Feb. 15; Sp. p. 3469; Gaz. vol. 151; p. 606.
Junction-box. J. R. Duff. No. 963,879; July 12; Sp. p. 1908; Gaz. vol. 156; p. 314.
Junction-box. M. Laux. No. 970,377; Sept. 13; Sp. p. 2628; Gaz. vol. 158; p. 443.
Junction-box. E. T. Greenfield. No. 975,032; Nov. 8; Sp. p. 2175; Gaz. vol. 160; p. 354.
Junction-box and cut-out and switch-support, Combined. W. J. Gibbons. No. 967,632; Aug. 16; Sp. p. 3823; Gaz. vol. 157; p. 656.
Justifying mechanism. B. F. Bellows and C. Luttropp. No. 974,740; Nov. 1; Sp. p. 1491; Gaz. vol. 160; p. 230.
Kaleidoscope. S. Jenkins. No. 951,126; Mar. 8; Sp. p. 1341; Gaz. vol. 152; p. 245.
Keel-block. P. Keymer. No. 965,302; July 26; Sp. p. 4966; Gaz. vol. 156; p. 855.
Keg-spout. W. A. Alkire. No. 966,413; Aug. 9; Sp. p. 1183; Gaz. vol. 157; p. 215.
Keg, Powder-. L. B. Eaton. No. 949,395; Feb. 15; Sp. p. 3407; Gaz. vol. 151; p. 595.
Keg-rinser. A. C. La Budde. No. 954,397; Apr. 5; Sp. p. 1481; Gaz. vol. 153; p. 246.
Keir. J. A. Butler and L. Flick. No. 958,591; May 17; Sp. p. 4736; Gaz. vol. 154; p. 778.
Kerosene-burner. H. Lemp. No. 969,545; Sept. 6; Sp. p. 848; Gaz. vol. 158; p. 133.
Kerosene-burner. E. F. Gennert. No. 975,411; Nov. 15; Sp. p. 2987; Gaz. vol. 160; p. 508.
Kerosene-burner for melting-furnaces and similar uses. L. T. Kuehl. No. 950,231; Feb. 22; Sp. p. 5215; Gaz. vol. 151; p. 914.
Kettle. P. Rotondo. No. 964,815; July 19; Sp. p. 3976; Gaz. vol. 156; p. 661.
Kettle-cover. H. Ellis. No. 947,098; Jan. 18; Sp. p. 4638; Gaz. vol. 150; p. 765.
Kettle, Tilting mixing-. R. J. Savage. No. 978,491; Dec. 13; Sp. p. 2321; Gaz. vol. 161; p. 400.
Key: *See* Bench-key; Door-key; Locking-key; Party-line ringing-key; Ringing-key; Switching-key; Telegraph-key; Telephone-switchboard key.
Key. F. C. Eckert. No. 962,558; June 28; Sp. p. 4919; Gaz. vol. 155; p. 861.
Key. W. C. Filson. No. 965,095; July 19; Sp. p. 4540; Gaz. vol. 156; p. 757.
Key and lock. C. F. Jenkins. No. 947,913; Feb. 1; Sp. p. 279; Gaz. vol. 151; p. 47.
Key-bottom. W. A. Watson. No. 967,866; Aug. 16; Sp. p. 4289; Gaz. vol. 157; p. 734.
Key-cutting machine. C. E. Johnson. No. 969,702; Sept. 6; Sp. p. 1159; Gaz. vol. 158; p. 188.
Key-extracting device. A. T. Rowe. No. 953,923; Apr. 5; Sp. p. 476; Gaz. vol. 153; p. 86.
Key-extractor. J. Kopietz. No. 977,018; Nov. 29; Sp. p. 6508; Gaz. vol. 160; p. 1110.
Key-fastener. C. O. Shaub. No. 946,277; Jan. 11; Sp. p. 2786; Gaz. vol. 150; p. 463.
Key-fastener. F. D. Johnson. No. 976,807; Nov. 22; Sp. p. 5983; Gaz. vol. 160; p. 1010.
Key-fastener. F. S. Odenz. No. 979,331; Dec. 20; Sp. p. 4146; Gaz. vol. 161; p. 714.
Key-fastener and key-ring, Combined. J. W. Clark. No. 954,929; Apr. 12; Sp. p. 2712; Gaz. vol. 153; p. 458.
Key-guide. F. A. Reffelt. No. 959,965; May 31; Sp. p. 7667; Gaz. vol. 154; p. 1294.
Key-holder, Lock. H. G. Voight. No. 978,965; Dec. 20; Sp. p. 3339; Gaz. vol. 161; p. 588.
Key-lever cup. K. Landa. No. 971,050; Sept. 27; Sp. p. 4074; Gaz. vol. 158; p. 721.
Key lock, Interchangeable-. A. W. Sibley. No. 960,421; June 7; Sp. p. 371; Gaz. vol. 155; p. 62.
Key lock, Interchangeable-. E. J. Prindle. No. 972,241; Oct. 11; Sp. p. 1600; Gaz. vol. 159; p. 281.
Key-locking mechanism. P. H. Turley. No. 957,481; May 10; Sp. p. 2102; Gaz. vol. 154; p. 365.
Key-opening can, Roll-side. W. E. Taylor. No. 969,220; Sept. 6; Sp. p. 162; Gaz. vol. 158; p. 27.
Key receptacle and chain, Combined. A. H. Field. No. 946,119; Jan. 11; Sp. p. 2440; Gaz. vol. 150; p. 406.
Key-ring. A. Bippart. No. 962,882; June 28; Sp. p. 5568; Gaz. vol. 155; p. 974.
Key-ring. L. Myers. No. 969,180; Sept. 6; Sp. p. 81; Gaz. vol. 158; p. 13.
Key-ring. J. A. Prigge, Jr. No. 977,221; Nov. 29; Sp. p. 6945; Gaz. vol. 160; p. 1180.
Key-seating machine. W. Billing. No. 958,081; May 17; Sp. p. 3572; Gaz. vol. 154; p. 602.
Keyboard. F. Clutsam. No. 971,172; Sept. 27; Sp. p. 4336; Gaz. vol. 158; p. 760.
Keyboard mechanism. J. R. Rogers. No. 952,584; Mar. 22; Sp. p. 4311; Gaz. vol. 152; p. 789.
Keyboard, Musician's exercising-. A. K. Virgil. No. 970,144; Sept. 13; Sp. p. 2134; Gaz. vol. 158; p. 364.
Keyboard-operating mechanism. H. Knudsen and H. Barta. No. 946,230; Jan. 11; Sp. p. 2680; Gaz. vol. 150; p. 446.
Keyhole-cover for locks. J. Roche. No. 952,643; Mar. 22; Sp. p. 4451; Gaz. vol. 152; p. 811.
Keyhole-guard. J. W. Benedict. No. 958,849; May 24; Sp. p. 5306; Gaz. vol. 154; p. 893.
Keyhole-guard. G. F. C. Muller. No. 965,316; July 26; Sp. p. 4999; Gaz. vol. 156; p. 860.
Keyhole-guard. G. M. Dunlevy. No. 971,122; Sept. 27; Sp. p. 4215; Gaz. vol. 158; p. 744.
Keyhole-guide. R. G. Hausdorfer and J. E. Murray. No. 948,446; Feb. 8; Sp. p. 1400; Gaz. vol. 151; p. 249.
Keyhole-illuminating device. C. Eyton. No. 970,698; Sept. 20; Sp. p. 3338; Gaz. vol. 158; p. 573.
Keyhole-lock. G. S. Nickum. No. 961,250; June 14; Sp. p. 2044; Gaz. vol. 155; p. 369.
Keyless lock. O. M. Farrand. No. 965,172; July 26; Sp. p. 4687; Gaz. vol. 156; p. 812.
Keyless lock. D. B. Kinsey. No. 965,303; July 26; Sp. p. 4968; Gaz. vol. 156; p. 855.
Kiln: *See* Brick-kiln; Calcining-kiln; Cement-kiln; Channel-kiln; Char-revivifying kiln; Continuous kiln; Dry-kiln; Lumber-kiln; Malt-kiln; Ore-roasting kiln; Pottery-kiln.
Kiln. T. M. Wilson. No. 946,086; Jan. 11; Sp. p. 2377; Gaz. vol. 150; p. 395.
Kiln. T. M. Wilson. No. 946,087; Jan. 11; Sp. p. 2379; Gaz. vol. 150; p. 395.
Kiln. T. M. Wilson. No. 946,088; Jan. 11; Sp. p. 2382; Gaz. vol. 150; p. 396.
Kiln. T. M. Wilson. No. 946,089; Jan. 11; Sp. p. 2384; Gaz. vol. 150; p. 397.
Kiln. T. M. Wilson. No. 952,777; Mar. 22; Sp. p. 4752; Gaz. vol. 152; p. 856.
Kiln. E. Anderson. No. 954,243; Apr. 5; Sp. p. 1169; Gaz. vol. 153; p. 195.
Kiln. M. Ittner. No. 954,633; Apr. 12; Sp. p. 2008; Gaz. vol. 153; p. 354.
Kiln. E. Cole. No. 959,996; May 31; Sp. p. 7741; Gaz. vol. 154; p. 1304.
Kiln. W. Drayton. No. 960,286; June 7; Sp. p. 92; Gaz. vol. 155; p. 19.
Kiln. M. F. Swanson. No. 961,266; June 14; Sp. p. 2078; Gaz. vol. 155; p. 374.
Kiln-feeding apparatus. R. Hoehne. No. 951,911; Mar. 15; Sp. p. 2963; Gaz. vol. 152; p. 537.
Kiln, furnace, &c. H. O. Robinson and C. Steadman. No. 971,642; Oct. 4; Sp. p. 277; Gaz. vol. 159; p. 49.
Kilns, Apparatus for utilizing the waste heat of. H. G. Layng. No. 951,191; Mar. 8; Sp. p. 1467; Gaz. vol. 152; p. 266.
Kilns, Fuel-burner for cement-. M. F. Mangelsdorff. No. 977,113; Nov. 29; Sp. p. 6711; Gaz. vol. 160; p. 1143.
Kilns, Fuel-feeding means for cement-. A. Neu. No. 958,970; May 24; Sp. p. 5557; Gaz. vol. 154; p. 934.
Kinematograph-films, Mechanism for the feeding of. O. Messter. No. 955,840; Apr. 19; Sp. p. 4641; Gaz. vol. 153; p. 800.
Kinematographs, Means for regulating the illumination of films in. B. Gwóźdź. No. 947,490; Jan. 25; Sp. p. 5564; Gaz. vol. 150; p. 925.
Kinematographic apparatus. J. L. Muller and J. Rousset. No. 955,666; Apr. 19; Sp. p. 4275; Gaz. vol. 153; p. 739.
Kinematographic films, Apparatus for the continuous drying of perforated. E. A. Ivatts. No. 948,731; Feb. 8; Sp. p. 2017; Gaz. vol. 151; p. 345.
Kinetoscope. A. C. Roebuck. No. 955,477; Apr. 19; Sp. p. 3839; Gaz. vol. 153; p. 675.
Kinetoscope. L. Hetz. No. 956,528; May 3; Sp. p. 40; Gaz. vol. 154; p. 10.
Kinetoscope. G. W. Bingham. No. 960,794; June 7; Sp. p. 1122; Gaz. vol. 155; p. 188.
Kinetoscope. G. W. Bingham. No. 963,740; July 12; Sp. p. 1584; Gaz. vol. 156; p. 266.
Kinetoscope. E. L. Aiken. No. 967,293; Aug. 16; Sp. p. 3123; Gaz. vol. 157; p. 541.
Kinetoscope-shutter. G. W. Bingham. No. 960,793; June 7; Sp. p. 1119; Gaz. vol. 155; p. 187.
Kitchen implement. F. Wagner. No. 966,496; Aug. 9; Sp. p. 1397; Gaz. vol. 157; p. 245.
Kitchen utensil. J. P. Ibson. No. 958,875; May 24; Sp. p. 5378; Gaz. vol. 154; p. 902.
Kitchen utensil. O. C. Berchtold. No. 976,979; Nov. 29; Sp. p. 6421; Gaz. vol. 160; p. 1096.

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Kitchen-utensil handle. H. T. Moore. No. 968,585; Aug. 30; Sp. p. 5851; Gaz. vol. 157; p. 1032.
Kite. C. C. Clawson. No. 967,612; Aug. 16; Sp. p. 3783; Gaz. vol. 157; p. 650.
Kite. W. Rode. No. 972,646; Oct. 11; Sp. p. 2483; Gaz. vol. 159; p. 423.
Kite, Revolving. W. Van Wie. No. 966,143; Aug. 2; Sp. p. 618; Gaz. vol. 157; p. 102.
Knapsack and the like. A. Schumacher. No. 954,825; Apr. 12; Sp. p. 2480; Gaz. vol. 153; p. 422.
Kneading and mixing machine. C. G. Ross. No. 950,243; Feb. 22; Sp. p. 5235; Gaz. vol. 151; p. 918.
Kneading and mixing machine. J. Lips. No. 971,387; Sept. 27; Sp. p. 4757; Gaz. vol. 158; p. 831.
Kneading and mixing machine. H. Schreiber. No. 979,804; Dec. 27; Sp. p. 5180; Gaz. vol. 161; p. 898.
Kneading apparatus. J. Kretzschmar. No. 979,675; Dec. 27; Sp. p. 4874; Gaz. vol. 161; p. 854.
Knee-cushion. H. Ehikian. No. 967,004; Aug. 9; Sp. p. 2524; Gaz. vol. 157; p. 415.
Knife: *See* Asparagus-knife; Band-cutter knife; Broom-corn knife; Chiropodist's knife; Curd-kife; Folding knife; Hoof-knife; Hunting-knife; Pocket-knife; Pruning-knife; Putty-knife; Rope-knife.
Knife. H. C. Hart. No. 947,103; Jan. 18; Sp. p. 4644; Gaz. vol. 150; p. 766.
Knife. B. T. Trueblood. No. 967,689; Aug. 16; Sp. p. 3930; Gaz. vol. 157; p. 675.
Knife. L. D. Gorsline. No. 968,463; Aug. 23; Sp. p. 5577; Gaz. vol. 157; p. 962.
Knife. W. C. Lockhart. No. 970,517; Sept. 20; Sp. p. 2934; Gaz. vol. 158; p. 511.
Knife and bottle-opener, Combined. I. Rose. No. 964,558; July 19; Sp. p. 3353; Gaz. vol. 156; p. 572.
Knife and fork cleaning machine. A. Fischer. No. 977,519; Dec. 6; Sp. p. 230; Gaz. vol. 161; p. 34.
Knife and nail-cleaner. L. P. Wickland. No. 973,600; Oct. 25; Sp. p. 4581; Gaz. vol. 159; p. 799.
Knife-blade-hardening apparatus. E. Bröking. No. 974,465; Nov. 1; Sp. p. 900; Gaz. vol. 160; p. 132.
Knife-cleaner. E. Philipp and J. Aeppli-Meier. No. 959,803; May 31; Sp. p. 7302; Gaz. vol. 154; p. 1237.
Knife-cleaner. M. D. Robison. No. 977,680; Dec. 6; Sp. p. 586; Gaz. vol. 161; p. 90.
Knife cleaning and polishing machine. H. J. Brashier. No. 963,507; July 5; Sp. p. 1087; Gaz. vol. 156; p. 165.
Knife construction. F. V. Sandford. No. 973,978; Oct. 25; Sp. p. 5361; Gaz. vol. 159; p. 933.
Knife-edge bearing. A. Sonander. No. 949,094; Feb. 15; Sp. p. 2765; Gaz. vol. 151; p. 491.
Knife, fork, and spoon holder. R. C. Guy. No. 975,858; Nov. 15; Sp. p. 3925; Gaz. vol. 160; p. 662.
Knife-handles, Composition of matter for. H. C. Hart. No. 948,727; Feb. 8; Sp. p. 2011; Gaz. vol. 151; p. 344.
Knife or tool for tapping rubber and other gum trees. R. W. Cater and G. V. A. Schofield. No. 971,021; Sept. 27; Sp. p. 3997; Gaz. vol. 158; p. 710.
Knife-polishing machine. G. F. Lawrence. No. 976,189; Nov. 22; Sp. p. 4633; Gaz. vol. 160; p. 798.
Knife-switch, Quick-break. C. D. Platt. No. 963,064; July 5; Sp. p. 73; Gaz. vol. 156; p. 14.
Knives, Machine for milling slicing-. V. E. Dobbs. No. 975,839; Nov. 15; Sp. p. 3879; Gaz. vol. 160; p. 655.
Knives, Production of blanks for table-. I. A. Bach. No. 965,981; Aug. 2; Sp. p. 289; Gaz. vol. 157; p. 48.
Knives, Scale-fastening for pocket-. A. L. Orchard. No. 970,540; Sept. 20; Sp. p. 2984; Gaz. vol. 158; p. 519.
Knit drawers, Lady's. M. Saldin. No. 969,808; Sept. 13; Sp. p. 1437; Gaz. vol. 158; p. 250.
Knit fabrics, Machine for uniting. G. Keyser. No. 949,280; Feb. 15; Sp. p. 3140; Gaz. vol. 151; p. 554.
Knit goods and making same, Reinforced. M. T. Murphy. No. 952,709; Mar. 22; Sp. p. 4593; Gaz. vol. 152; p. 833.
Knitted fabric. B. T. Steber. No. 951,033; Mar. 1; Sp. p. 1161; Gaz. vol. 152; p. 190.
Knitted fabric. R. W. Scott. No. 955,702; Apr. 19; Sp. p. 4354; Gaz. vol. 153; p. 752.
Knitted fabric. H. A. Carter. No. 963,744; July 12; Sp. p. 1596; Gaz. vol. 156; p. 268.
Knitted fabric. H. A. Carter. No. 963,864; July 12; Sp. p. 1881; Gaz. vol. 156; p. 309.
Knitted fabric. A. S. Musgrove. No. 978,622; Dec. 13; Sp. p. 2621; Gaz. vol. 161; p. 447.
Knitted sweater. M. A. Mueller. No. 957,854; May 10; Sp. p. 2863; Gaz. vol. 154; p. 490.
Knitted web, hosiery, and making the same. R. W. Scott. No. 974,302; Nov. 1; Sp. p. 502; Gaz. vol. 160; p. 74.
Knitting. E. E. Kilbourn. No. 963,227; July 5; Sp. p. 506; Gaz. vol. 156; p. 71.
Knitting-machine. J. C. Duemler. No. 946,854; Jan. 18; Sp. p. 4132; Gaz. vol. 150; p. 684.
Knitting-machine. G. T. Nicholls. No. 956,820; May 3; Sp. p. 700; Gaz. vol. 154; p. 110.
Knitting-machine. E. Vermilyea and R. Hammersley. No. 970,282; Sept. 13; Sp. p. 2439; Gaz. vol. 158; p. 411.
Knitting-machine. R. W. Scott. No. 976,607; Nov. 22; Sp. p. 5577; Gaz. vol. 160; p. 943.
Knitting-machine attachment, Warp-. T. Branson. No. 976,776; Nov. 22; Sp. p. 5929; Gaz. vol. 160; p. 1001.
Knitting machine, Automatic rib-. H. B. Taylor. No. 973,236; Oct. 18; Sp. p. 3822; Gaz. vol. 159; p. 653.
Knitting-machine bed. W. O. Wait. No. 959,822; May 31; Sp. p. 7335; Gaz. vol. 154; p. 1243.
Knitting machine, Circular-. H. H. West. No. 953,248; Mar. 29; Sp. p. 5742; Gaz. vol. 152; p. 1041.
Knitting machine, Circular-. A. N. Ames. No. 962,292; June 21; Sp. p. 4315; Gaz. vol. 155; p. 744.
Knitting machine, Circular-. G. L. Ballard. No. 963,679; July 5; Sp. p. 1425; Gaz. vol. 156; p. 223.
Knitting machine, Circular-. H. A. Houseman. No. 968,563; Aug. 30; Sp. p. 5810; Gaz. vol. 157; p. 1023.
Knitting-machine, Circular-fashioning. A. N. Ames. No. 962,291; June 21; Sp. p. 4306; Gaz. vol. 155; p. 744.
Knitting-machine feeding device. J. Rogginger. No. 966,707; Aug. 9; Sp. p. 1848; Gaz. vol. 157; p. 316.
Knitting-machine needle. J. C. Egly. No. 954,174; Apr. 5; Sp. p. 1014; Gaz. vol. 153; p. 172.
Knitting-machine needle. G. C. Egly. No. 956,318; Apr. 26; Sp. p. 5717; Gaz. vol. 153; p. 995.
Knitting-machine needle. R. W. Scott. No. 975,466; Nov. 15; Sp. p. 3096; Gaz. vol. 160; p. 529.
Knitting-machine needle and jack structure. E. Tiffany. No. 969,222; Sept. 6; Sp. p. 169; Gaz. vol. 158; p. 27.
Knitting-machine pattern device. E. C. Chandler. No. 977,852; Dec. 6; Sp. p. 939; Gaz. vol. 161; p. 148.
Knitting-machine pattern mechanism. E. C. Chandler. No. 953,122; Mar. 29; Sp. p. 5474; Gaz. vol. 152; p. 1000.
Knitting machine, Rib-. R. W. Scott. No. 951,706; Mar. 8; Sp. p. 2502; Gaz. vol. 152; p. 435.
Knitting-machine stop-motion. F. J. Heady. No. 950,695; Mar. 1; Sp. p. 498; Gaz. vol. 152; p. 80.
Knitting-machine stop-motion. G. L. Ballard. No. 951,358; Mar. 8; Sp. p. 1821; Gaz. vol. 152; p. 319.
Knitting-machine web-holder device, Straight-. P. Grosser. No. 967,760; Aug. 16; Sp. p. 4083; Gaz. vol. 157; p. 699.
Knitting-machine yarn-changing mechanism, Automatic. A. Gee. No. 971,986; Oct. 4; Sp. p. 1061; Gaz. vol. 159; p. 177.
Knitting-machine yarn-guide-controlling mechanism, Traverse-warp-. G. S. Weeper. No. 966,875; Aug. 9; Sp. p. 2266; Gaz. vol. 157; p. 371.
Knitting-machine yarn-splicing device. H. A. Houseman. No. 967,019; Aug. 9; Sp. p. 2559; Gaz. vol. 157; p. 420.
Knitting-machine yarn-trap. J. Pearson and H. Carter. No. 959,252; May 24; Sp. p. 6146; Gaz. vol. 154; p. 1027.
Knitting-machines, Automatic cleaner for latch. E. C. Cook. No. 954,932; Apr. 12; Sp. p. 2718; Gaz. vol. 153; p. 460.
Knitting machines, Casting-off bur for circular-. R. W. Gormly. No. 976,867; Nov. 29; Sp. p. 6130; Gaz. vol. 160; p. 1056.
Knitting-machines, Dial-holder for. H. Bradley. No. 953,367; Mar. 29; Sp. p. 6009; Gaz. vol. 152; p. 1080.
Knitting machines, Duplex striping mechanism for circular-. W. P. Young. No. 965,428; July 26; Sp. p. 5244; Gaz. vol. 156; p. 898.
Knitting-machines, Fabric-cutting device for. F. B. Wildman. No. 960,755; June 7; Sp. p. 1041; Gaz. vol. 155; p. 175.
Knitting-machines, Looping device for. J. W. Latcher. No. 949,376; Feb. 15; Sp. p. 3361; Gaz. vol. 151; p. 588.
Knitting-machines, Splicing-feed device for. G. S. Marville. No. 947,925; Feb. 1; Sp. p. 301; Gaz. vol. 151; p. 50.
Knitting-machines, &c., Stop device for. E. Paquette and C. F. Deeg. No. 971,923; Oct. 4; Sp. p. 885; Gaz. vol. 159; p. 153.
Knitting-machines, Striping-pattern device for. H. H. West. No. 952,774; Mar. 22; Sp. p. 4740; Gaz. vol. 152; p. 854.
Knitting machines, Yarn-changer for circular-. H. H. West. No. 965,351; July 26; Sp. p. 5085; Gaz. vol. 156; p. 873.
Knitting or weaving device, Hand. A. Putman. No. 957,711; May 10; Sp. p. 2566; Gaz. vol. 154; p. 444.
Knob and bell, Combined door. R. Hazelrigg. No. 970,222; Sept. 13; Sp. p. 2324; Gaz. vol. 158; p. 391.
Knob and spindle connection. W. Curlett. No. 973,412; Oct. 18; Sp. p. 4193; Gaz. vol. 159; p. 714.
Knob and spindle fastening. C. A. Berry. No. 957,837; May 10; Sp. p. 2824; Gaz. vol. 154; p. 484.
Knob attachment. W. K. Henry. No. 945,165; Jan. 4; Sp. p. 326; Gaz. vol. 150; p. 55.
Knob attachment. E. L. Teich. No. 950,735; Mar. 1; Sp. p. 592; Gaz. vol. 152; p. 93.
Knob attachment. W. K. Henry. No. 951,275; Mar. 8; Sp. p. 1645; Gaz. vol. 152; p. 292.
Knob construction. A. Arens. No. 949,967; Feb. 22; Sp. p. 4605; Gaz. vol. 151; p. 822.
Knob, Door-. E. Winne. No. 976,328; Nov. 22; Sp. p. 4968; Gaz. vol. 160; p. 846.
Knob for locks and latches, Thumb-. H. S. Lockwood. No. 963,053; July 5; Sp. p. 53; Gaz. vol. 156; p. 11.
Knob-lock. W. A. Hill. No. 965,519; July 26; Sp. p. 5454; Gaz. vol. 156; p. 930.
Knob-lock. W. A. Hill. No. 965,520; July 26; Sp. p. 5464; Gaz. vol. 156; p. 931.

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Knob-spindle fastener. W. Curlett. No. 956,947; May 3; Sp. p. 964; Gaz. vol. 154; p. 154.
Knobs on spindles, Means for adjusting and locking door-. C. O. Noack. No. 951,836; Mar. 15; Sp. p. 2795; Gaz. vol. 152; p. 510.
Knobs to roses, Securing thumb-. H. S. Lockwood. No. 970,518; Sept. 20; Sp. p. 2935; Gaz. vol. 158; p. 512.
Knockdown bin. W. R. Maeder. No. 973,796; Oct. 25; Sp. p. 4998; Gaz. vol. 159; p. 869.
Knockdown box. A. N. Bender. No. 956,512; May 3; Sp. p. 13; Gaz. vol. 154; p. 5.
Knockdown box. P. C. Thayer. No. 972,038; Oct. 4; Sp. p. 1159; Gaz. vol. 159; p. 195.
Knockdown box. E. L. Walker. No. 973,827; Oct. 25; Sp. p. 5062; Gaz. vol. 159; p. 880.
Knockdown box. F. R. Vernon. No. 976,318; Nov. 22; Sp. p. 4948; Gaz. vol. 160; p. 843.
Knockdown box, Collapsible. C. F. Jenkins. No. 947,179; Jan. 18; Sp. p. 4787; Gaz. vol. 150; p. 789.
Knockdown box, crate, &c. J. A. Coffey and C. C. Bowen. No. 952,786; Mar. 22; Sp. p. 4766; Gaz. vol. 152; p. 859.
Knockdown case. P. A. Becker. No. 974,739; Nov. 1; Sp. p. 1488; Gaz. vol. 160; p. 230.
Knockdown elevator. C. O. Liljeros. No. 961,782; June 21; Sp. p. 3185; Gaz. vol. 155; p. 572.
Knockdown seat. W. A. Kirkpatrick, J. E. Robbins, and C. P. Kirkpatrick. No. 970,721; Sept. 20; Sp. p. 3391; Gaz. vol. 158; p. 582.
Knockdown table. F. Matthes. No. 964,996; July 19; Sp. p. 4338; Gaz. vol. 156; p. 723.
Knot-tier. C. R. Judge. No. 952,528; Mar. 22; Sp. p. 4190; Gaz. vol. 152; p. 769.
Knot-tying machine. J. C. Anderson. No. 949,408; Feb. 15; Sp. p. 3439; Gaz. vol. 151; p. 600.
Knotter. H. D. Colman. No. 955,384; Apr. 19; Sp. p. 3653; Gaz. vol. 153; p. 643.
Knotter. B. A. Peterson. No. 959,592; May 31; Sp. p. 6856; Gaz. vol. 154; p. 1166.
Knuckle, Emergency-. J. G. McPherson. No. 965,727; July 26; Sp. p. 5901; Gaz. vol. 156; p. 1003.
Knuckle-pin retainer. C. F. Murray. No. 974,509; Nov. 1; Sp. p. 998; Gaz. vol. 160; p. 148.
Kraut-cutter. J. S. Randolph. No. 969,979; Sept. 13; Sp. p. 1808; Gaz. vol. 158; p. 308.
Label-applying machine. H. F. Maynes. No. 971,133; Sept. 27; Sp. p. 4232; Gaz. vol. 158; p. 747.
Label-attaching means. F. D. Rettich. No. 972,917; Oct. 18; Sp. p. 3106; Gaz. vol. 159; p. 544.
Label, Bottle-. I. Levi. No. 946,517; Jan. 11; Sp. p. 3407; Gaz. vol. 150; p. 546.
Label cabinet and moistener. C. K. Resh. No. 957,378; May 10; Sp. p. 1901; Gaz. vol. 154; p. 330.
Label-follower mechanism. F. O. Woodland. No. 954,841; Apr. 12; Sp. p. 2512; Gaz. vol. 153; p. 428.
Label-holder. G. Peterson. No. 947,026; Jan. 18; Sp. p. 4511; Gaz. vol. 150; p. 743.
Label-holder for trees. D. H. Buell. No. 965,866; Aug. 2; Sp. p. 38; Gaz. vol. 157; p. 9.
Label or wrapping machines, Feeding mechanism for. W. and H. Rose. No. 972,647; Oct. 11; Sp. p. 2484; Gaz. vol. 159; p. 423.
Label-pasting device. W. Sutton. No. 971,800; Oct. 4; Sp. p. 601; Gaz. vol. 159; p. 105.
Labels and the like to cans and other articles, Machine for applying. B. W. Tucker. No. 961,270; June 14; Sp. p. 2082; Gaz. vol. 155; p. 375.
Labels around rectangular tablets, Machine for wrapping and affixing. F. Grover. No. 976,567; Nov. 22; Sp. p. 5500; Gaz. vol. 160; p. 929.
Labels or wrappers, Mechanism for applying. W. and H. Rose. No. 972,648; Oct. 11; Sp. p. 2485; Gaz. vol. 159; p. 423.
Labels or wrappers to blocks, packages, or tins, or other containers of material, Apparatus for applying. W. and H. Rose. No. 970,353; Sept. 13; Sp. p. 2573; Gaz. vol. 158; p. 434.
Labeling device, Bread-. J. Limmer. No. 959,767; May 31; Sp. p. 7211; Gaz. vol. 154; p. 1224.
Labeling-machine. F. W. Wild, Jr. No. 951,774; Mar. 8; Sp. p. 2659; Gaz. vol. 152; p. 460.
Labeling-machine. E. S. Miller. No. 966,463; Aug. 9; Sp. p. 1304; Gaz. vol. 157; p. 234.
Labeling-machine. G. Brand, F. Marcile, and E. P. Sheldon. No. 974,856; Nov. 8; Sp. p. 1757; Gaz. vol. 160; p. 293.
Labeling machine, Bottle-. F. N. Young. No. 949,367; Feb. 15; Sp. p. 3332; Gaz. vol. 151; p. 584.
Labeling machine, Bottle-. F. N. Young. No. 949,368; Feb. 15; Sp. p. 3338; Gaz. vol. 151; p. 584.
Labeling machine, Bottle-. M. E Noyes. No. 951,837; Mar. 15; Sp. p. 2797; Gaz. vol. 152; p. 510.
Labeling machine, Bottle-. A. N. Ketterer. No. 954,635; Apr. 12; Sp. p. 2012; Gaz. vol. 153; p. 355.
Labeling machine, Can-. E. S. and B. H. Miller. No. 969,715; Sept. 6; Sp. p. 1183; Gaz. vol. 158; p. 192.
Labeling machine, Can-end-. L. W. Earl. No. 953,944; Apr. 5; Sp. p. 515; Gaz. vol. 153; p. 94.
Labeling-machines, Feed-controlling means for. F. O. Woodland. No. 974.326; Nov. 1; Sp. p. 573; Gaz. vol. 160; p. 84.
Labeling machines, Label-supply mechanism for bottle-. E. Ermold. No. 950,259; Feb. 22; Sp. p. 5269; Gaz. vol. 151; p. 924.
Labeling machines, Wiper attachment for bottle-. E. Ermold. No. 946,996; Jan. 18; Sp. p. 4444; Gaz. vol. 150; p. 732.
Labeling machines, Wiper attachment for bottle-. E. Ermold. No. 950,261; Feb. 22; Sp. p. 5273; Gaz. vol. 151; p. 925.
Labeling machines, Wiper for bottle-. E. Ermold. No. 966,536; Aug. 9; Sp. p. 1515; Gaz. vol. 157; p. 259.
Labeling machines, Wiper mechanism for bottle-. E. Ermold. No. 950,260; Feb. 22; Sp. p. 5271; Gaz. vol. 151; p. 924.
Labeling packets, tins, or the like, Machine for. E. C. Lovell. No. 948,061; Feb. 1; Sp. p. 592; Gaz. vol. 151; p. 95.
Lace clamp, Shoe-. J. C. and A. M. Foster. No. 947,898; Feb. 1; Sp. p. 259; Gaz. vol. 151; p. 42.
Lace-cutting implement. D. H. Gilges. No. 974,766; Nov. 1; Sp. p. 1555; Gaz. vol. 160; p. 240.
Lace-fastener. C. B. Smith. No. 966,960; Aug. 9; Sp. p. 2432; Gaz. vol. 157; p. 399.
Lace-fastener. H. F. Levi. No. 975,139; Nov. 8; Sp. p. 2405; Gaz. vol. 160; p. 391.
Lace fastener, Shoe-. C. M. Partridge. No. 948,460; Feb. 8; Sp. p. 1422; Gaz. vol. 151; p. 254.
Lace fastener, Shoe-. J. D. Eastman. No. 963,533; July 5; Sp. p. 1149; Gaz. vol. 156; p. 175.
Lace-fastening means. J. Hennessey. No. 972,620; Oct. 11; Sp. p. 2431; Gaz. vol. 159; p. 414.
Lace-feeding device. W. H. Joslin and M. H. Bennett. No. 974,674; Nov. 1; Sp. p. 1350; Gaz. vol. 160; p. 209.
Lace-hook. E. A. Engstrom. No. 962,326; June 21; Sp. p. 4379; Gaz. vol. 155; p. 756.
Lace, Machine for producing braided or plaited. H. Buscher. No. 946,007; Jan. 11; Sp. p. 2221; Gaz. vol. 150; p. 369.
Lace-making machine. G. Krenzler. No. 979,770; Dec. 27; Sp. p. 5087; Gaz. vol. 161; p. 886.
Lace-reel. J. Barry and M. L. Shaughnessy. No. 972,745; Oct. 11; Sp. p. 2687; Gaz. vol. 159; p. 456.
Lace, Shoe-. P. M. Hammalian. No. 969,054; Aug. 30; Sp. p. 6833; Gaz. vol. 157; p. 1190.
Lace-tipping machine. W. H. Joslin and M. H. Bennett. No. 979,168; Dec. 20; Sp. p. 3813; Gaz. vol. 161; p. 660.
Lace-winder. G. L. Williams. No. 946,628; Jan. 18; Sp. p. 3619; Gaz. vol. 150; p. 608.
Lacing. A. T. Holt. No. 957,559; May 10; Sp. p. 2267; Gaz. vol. 154; p. 392.
Lacing, Belt-. A. J. Slonecker. No. 950,009; Feb. 22; Sp. p. 4745; Gaz. vol. 151; p. 838.
Lacing boots, Device for. M. Bredenberg. No. 961,711; June 14; Sp. p. 3029; Gaz. vol. 155; p. 524.
Lacing-hook. A. Weigand. No. 957,281; May 10; Sp. p. 1702; Gaz. vol. 154; p. 298.
Lacing-hook for shoes, gloves, &c., Guarded. H. A. Wentworth. No. 963,674; July 5; Sp. p. 1413; Gaz. vol. 156; p. 221.
Lacing-hook-setting machine. F. L. Cheney. No. 948,268; Feb. 1; Sp. p. 990; Gaz. vol. 151; p. 163.
Lacing-hook-setting machine. A. R. Havener. No. 977,090; Nov. 29; Sp. p. 6650; Gaz. vol. 160; p. 1134.
Lacing-hooks, Machine for manufacturing. J. A. Eden, Jr. No. 953,002; Mar. 22; Sp. p. 5190; Gaz. vol. 152; p. 931.
Lacing-machine needle, Shoe-. W. A. Smith. No. 946,789; Jan. 18; Sp. p. 3974; Gaz. vol. 150; p. 661.
Lacing, Shoe-. F. Duquette. No. 963,696; July 5; Sp. p. 1474; Gaz. vol. 156; p. 229.
Lactalbumin, Making a neutral sodium salt of. E. Fischer and P. Bergell. No. 962,753; June 28; Sp. p. 5316; Gaz. vol. 155; p. 929.
Ladder. L. M. Norton. No. 951,092; Mar. 1; Sp. p. 1274; Gaz. vol. 152; p. 209.
Ladder. J. McGlade. No. 952,463; Mar. 22; Sp. p. 4037; Gaz. vol. 152; p. 747.
Ladder. A. M. D. Mengeler. No. 953,097; Mar. 29; Sp. p. 5416; Gaz. vol. 152; p. 992.
Ladder. J. J. Dennis. No. 598,732; May 24; Sp. p. 5018; Gaz. vol. 154; p. 850.
Ladder. H. A. Sager. No. 963,474; July 5; Sp. p. 1023; Gaz. vol. 156; p. 155.
Ladder. F. S. Plaisted. No. 971,786; Oct. 4; Sp. p. 577; Gaz. vol. 159; p. 101.
Ladder. N. W. Henning. No. 971,997; Oct. 4; Sp. p. 1079; Gaz. vol. 159; p. 181.
Ladder. A. Devan. No. 972,684; Oct. 11; Sp. p. 2550; Gaz. vol. 159; p. 435.
Ladder. E. L. Boyd. No. 973,103; Oct. 18; Sp. p. 3507; Gaz. vol. 159; p. 606.
Ladder. I. C. Clevenger. No. 977,853; Dec. 6; Sp. p. 944; Gaz. vol. 161; p. 149.
Ladder and scaffold, Combined. R. A. Holdridge. No. 965,712; July 26; Sp. p. 712; Gaz. vol. 156; p. 998.
Ladder and trestle, Extension. W. L. Glidden. No. 947,810; Feb. 1; Sp. p. 58; Gaz. vol. 151; p. 13.
Ladder and window-chair, Combined step-. M. Ryder. No. 952,948; Mar. 22; Sp. p. 5088; Gaz. vol. 152; p. 914.
Ladder attachment. E. J. Curran. No. 970,425; Sept. 13; Sp. p. 2713; Gaz. vol. 158; p. 458.

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Ladder attachment. R. and W. Holdorf. No. 972,001; Oct. 4; Sp. p. 1084; Gaz. vol. 159; p. 182.
Ladder attachment, Step-. J. B. Gilmore. No. 967,898; Aug. 23; Sp. p. 4359; Gaz. vol. 157; p. 769.
Ladder-base, Adjustable. E. Ison. No. 973,509; Oct. 25; Sp. p. 4402; Gaz. vol. 159; p. 769.
Ladder brace and bracket. L. M. Norton No. 966,852; Aug. 9; Sp. p. 2217; Gaz. vol. 157; p. 364.
Ladder-bracket. R. A. Holdridge. No. 971,677; Oct. 4; Sp. p. 353; Gaz. vol. 159; p. 62.
Ladder-bracket. J. W. Boyd. No. 978,550; Dec. 13; Sp. p. 2445; Gaz. vol. 161; p. 420.
Ladder-bracket, Adjustable. F. T. Peters. No. 960,580; June 7; Sp. p. 699; Gaz. vol. 155; p. 115.
Ladder, Ceiling-. A. R. Mercer. No. 950,182; Feb. 22; Sp. p. 5106; Gaz. vol. 151; p. 896.
Ladder, Double-wheeled step-. C. G. Davis. No. 970,690; Sept. 20; Sp. p. 3322; Gaz. vol. 158; p. 571.
Ladder, Extension-. H. Epstein. No. 949,529; Feb. 15; Sp. p. 3661; Gaz. vol. 151; p. 638.
Ladder, Extension-. J. A. Johnson. No. 952,432; Mar. 15; Sp. p. 3957; Gaz. vol. 152; p. 709.
Ladder, Extension-. A. M. Ferguson. No. 968,040; Aug. 23; Sp. p. 4677; Gaz. vol. 157; p. 817.
Ladder extension. R. M. Brasington. No. 979,821; Dec. 27; Sp. p. 5209; Gaz. vol. 161; p. 903.
Ladder, Extension fire-. J. Dupuis. No. 967,116; Aug. 9; Sp. p. 2776; Gaz. vol. 157; p. 455.
Ladder, Extension step-. C. W. Spaulding. No. 964,324; July 12; Sp. p. 2811; Gaz. vol. 156; p. 464.
Ladder, Folding. M. Barth. No. 950,469; Mar. 1; Sp p. 5; Gaz. vol. 152; p. 3.
Ladder, Folding scaffold-. H F. Hartman. No. 976,074; Nov. 15; Sp. p. 4333; Gaz. vol. 160; p. 736.
Ladder, Folding step-. F. B. Van Cleave. No. 964,587; July 19; Sp. p. 3413; Gaz. vol. 156; p. 583.
Ladder, Folding step-. L. J. Muehr. No. 979,988; Dec. 27; Sp. p. 5546; Gaz. vol. 161; p. 958.
Ladder, Loose-link. J. H. Scribner. No. 950,731; Mar. 1; Sp. p. 586; Gaz. vol. 152; p. 92.
Ladder, Metallic. L. Ferguson. No. 975,223; Nov. 8; Sp. p. 2599; Gaz. vol. 160; p. 420.
Ladder, Portable extension-. W. H. Beam. No. 974,738; Nov. 1; Sp. p. 1486; Gaz. vol. 160; p. 229.
Ladder-round support. W. J. La Fleur. No. 954,813; Apr. 12; Sp. p. 2443; Gaz. vol. 153; p. 417.
Ladder-rungs and the like, Support and brace for. F. C. Myer. No. 949,194; Feb. 15; Sp. p. 2968; Gaz. vol. 151; p. 525.
Ladder, Sectional fruit-picking step-. A. McCombie. No. 952,836; Mar. 22; Sp. p. 4868; Gaz. vol. 152; p. 876.
Ladder, stair-ladder, and extension-ladder, Combined step-. W. S. Shields. No. 967,252; Aug. 16; Sp. p. 3050; Gaz. vol. 157; p. 528.
Ladder, Step-. E. Hudson. No. 947,409; Jan. 25; Sp. p. 5359; Gaz. vol. 150; p. 898.
Ladder, Step-. W. J. Blundell. No. 949,614; Feb. 15; Sp. p. 3830; Gaz. vol. 151; p. 667.
Ladder, Step-. H. B. Gaffers. No. 950,323; Feb. 22; Sp. p. 5389; Gaz. vol. 151; p. 946.
Ladder, Step-. W. R. Mathes. No. 951,406; Mar. 8; Sp. p. 1934; Gaz. vol. 152; p. 335.
Ladder, Step-. A. J. Ketelsen. No. 961,357; June 14; Sp. p. 2304; Gaz. vol. 155; p. 407.
Ladder, Step-. E. Bentley. No. 962,881; June 28; Sp. p. 5568; Gaz. vol. 155; p. 974.
Ladder, Step-. J. Samuelson. No. 970,560; Sept. 20; Sp. p. 3025; Gaz. vol. 158; p. 526.
Ladder, Wire. J. Ross and G. Payne. No. 950,807; Mar. 1; Sp. p. 747; Gaz. vol. 152; p. 119.
Ladle. J. V. Bretaud. No. 947,729; Jan. 25; Sp. p. 6032; Gaz. vol. 150; p. 1005.
Ladle, Compound. J. Mitats. No. 978,616; Dec. 13; Sp. p. 2611; Gaz. vol. 161; p. 445.
Ladle for pouring molten metal. J. W. Callaghan. No. 977,271; Nov. 29; Sp. p. 7042; Gaz. vol. 160; p. 1198.
Ladle stopper, Metal-pouring-. J. E. Sheaffer. No. 955,704; Apr. 19; Sp. p. 4357; Gaz. vol. 153; p. 752.
Ladles, Making handles for. J. B. Rodger. No. 978,652; Dec. 13; Sp. p. 2688; Gaz. vol. 161; p. 457.
Ladles, Trunnion-support for dumping-. E. C. Sherman. No. 952,368; Mar. 15; Sp. p. 3840; Gaz. vol. 152; p. 687.
Lamp. N. Krohn. No. 947,041; Jan. 18; Sp. p. 4530; Gaz. vol. 150; p. 747.
Lamp. F. A. Cameron. No. 954,779; Apr. 12; Sp. p. 2350; Gaz. vol. 153; p. 406.
Lamp. C. A. McCune. No. 956,720; May 3; Sp. p. 474; Gaz. vol. 154; p. 76.
Lamp. W. S. Ryan. No. 957,627; May 10; Sp. p. 2395; Gaz. vol. 154; p. 415.
Lamp. O. J. Holt. No. 959,431; May 24; Sp. p. 6477; Gaz. vol. 154; p. 1085.
Lamp. J. H. Purdy. No. 959,804; May 31; Sp. p. 7303; Gaz. vol. 154; p. 1237.
Lamp. W. French. No. 960,632; June 7; Sp. p. 807; Gaz. vol. 155; p. 132.
Lamp. A. R. Pritchard. No. 963,321; July 5; Sp. p. 719; Gaz. vol. 156; p. 103.
Lamp. W. C. Coleman. No. 965,439; July 26; Sp. p. 5269; Gaz. vol. 156; p. 902.
Lamp. W. C. Coleman. No. 965,440; July 26; Sp. p. 5271; Gaz. vol. 156; p. 902.
Lamp. E. M. Rosenbluth. No. 965,749; July 26; Sp. p. 5934; Gaz. vol. 156; p. 1010.
Lamp. G. K. Bradfield. No. 965,863; Aug. 2; Sp. p. 32; Gaz. vol. 157; p. 8.
Lamp. W. C. Coleman. No. 965,872; Aug. 2; Sp. p. 51; Gaz. vol. 157; p. 10.
Lamp. F. Webb. No. 968,502; Aug. 23; Sp. p. 5669; Gaz. vol. 157; p. 976.
Lamp. J. E. Allen. No. 968,632; Aug. 30; Sp. p. 5949; Gaz. vol. 157; p. 1048.
Lamp. M. W. Pitner. No. 970,948; Sept. 20; Sp. p. 3854; Gaz. vol. 158; p. 658.
Lamp. F. M. Stevens. No. 971,323; Sept. 27; Sp. p. 4626; Gaz. vol. 158; p. 810.
Lamp. C. Orgaard. No. 971,631; Oct. 4; Sp. p. 258; Gaz. vol. 159; p. 46.
Lamp. G. Keller. No. 973,050; Oct. 18; Sp. p. 3401; Gaz. vol. 159; p. 589.
Lamp. G. J. Salch. No. 973,072; Oct. 18; Sp. p. 3440; Gaz. vol. 159; p. 596.
Lamp. C. W. Boyse. No. 976,117; Nov. 15; Sp. p. 4433; Gaz. vol. 160; p. 751.
Lamp. W. C. Coleman. No. 976,723; Nov. 22; Sp. p. 5796; Gaz. vol. 160; p. 981.
Lamp. J. E. Allen. No. 977,358; Nov. 29; Sp. p. 7231; Gaz. vol. 160; p. 1227.
Lamp. A. W. Sarff. No. 979,571; Dec. 27; Sp. p. 4660; Gaz. vol. 161; p. 818.
Lamp, Acetylene-. F. Guy. No. 974,054; Oct. 25; Sp. p. 5528; Gaz. vol. 159; p. 959.
Lamp, Acetylene-gas-generating. J. Bleser. No. 949,349; Feb. 15; Sp. p. 3301; Gaz. vol. 151; p. 578
Lamp, Adjustable. A. S. Lyhne. No. 963,913; July 12; Sp. p. 1973; Gaz. vol. 156; p. 324.
Lamp adjustable support, Hanging-. H. E. Drew and W. P. Carroll. No. 972,170; Oct. 11; Sp. p. 1436; Gaz. vol. 159; p. 257.
Lamp, Alcohol-. J. H. Seaman. No. 950,561; Mar. 1; Sp. p. 212; Gaz. vol. 152; p. 35.
Lamp, Alcohol-. J. W. Chapman and E. A. Gutermann, No. 956,482; Apr. 26; Sp. p. 6063; Gaz. vol. 153; p. 1051.
Lamp, Alcohol-. F. Kitzsteiner. No. 978,901; Dec. 20; Sp. p. 3177; Gaz. vol. 161; p. 564.
Lamp, Alcohol-vapor. A. Rector. No. 958,310; May 17; Sp. p. 4184; Gaz. vol. 154; p. 682.
Lamp and connections therefor, Electric incandescent. W. J. Phelps. No. 967,233; Aug. 16; Sp. p. 3011; Gaz. vol. 157; p. 521.
Lamp and guard therefor, Portable. R. B. Benjamin. No. 974,226; Nov. 1; Sp. p. 270; Gaz. vol. 160; p. 46.
Lamp and lantern extinguisher. B. Kovacic. No. 971,282; Sept. 27; Sp. p. 4555; Gaz. vol. 158; p. 797.
Lamp and lantern snuffer. J. B. Case. No. 968,740; Aug. 30; Sp. p. 6212; Gaz. vol. 157; p. 1085.
Lamp and mirror, Combined. L. A. Buell. No. 975,674; Nov. 15; Sp. p. 3569; Gaz. vol. 160; p. 600.
Lamp and reflector therefor. D. J. O'Brien. No. 974,090; Oct. 25; Sp. p. 5600; Gaz. vol. 159; p. 971.
Lamp and similar device, Electric tube-. D. M. Moore. No. 957,983; May 17; Sp. p. 3220; Gaz. vol. 154; p. 567.
Lamp, Arc-. C. E. Harthan and W. H. Dalton. No. 945,942; Jan. 11; Sp. p. 2086; Gaz. vol. 150; p. 348.
Lamp, Arc-. W. D. Ryan. No. 946,156; Jan. 11; Sp. p. 2517; Gaz. vol. 150; p. 420.
Lamp, Arc-. M. Fortuny. No. 948,971; Feb. 8; Sp. p. 2497; Gaz. vol. 151; p. 425.
Lamp, Arc-. J. T. H. Dempster. No. 949,353; Feb. 15; Sp. p. 3309; Gaz. vol. 151; p. 579.
Lamp, Arc-. R. Hewson. No. 950,000; Feb. 22; Sp. p. 4722; Gaz. vol. 151; p. 834.
Lamp, Arc-. P. Hanisch and J. Rosemeyer. No. 953,140; Mar. 29; Sp. p. 5517; Gaz. vol. 152; p. 1006.
Lamp, Arc-. L. W. Pullen. No. 958,828; May 24; Sp. p. 5252; Gaz. vol. 154; p. 885.
Lamp, Arc-. J. C. Piper. No. 961,733; June 14; Sp. p. 3071; Gaz. vol. 155; p. 532.
Lamp, Arc-. T. J. Anderson. No. 962,692; June 28; Sp. p. 5187; Gaz. vol. 155; p. 906.
Lamp, Arc-. G. M. Little. No. 964,664; July 19; Sp. p. 3562; Gaz. vol. 156; p. 609.
Lamp, Arc-. R. Fleming and C. A. B. Halvorson, Jr. No. 964,691; July 19; Sp. p. 3725; Gaz. vol. 156; p. 619.
Lamp, Arc-. C. H. Sprague. No. 967,684; Aug. 16; Sp. p. 3921; Gaz. vol. 157; p. 673.
Lamp, Arc-. C. A. B. Halvorson, Jr. No. 973,653; Oct. 25; Sp. p. 4712; Gaz. vol. 159; p. 819.
Lamp, Arc-. P. Hanisch. No. 975,034; Nov. 8; Sp. p. 2177; Gaz. vol. 160; p. 354.
Lamp, Arc-. T. L. Carbone. No. 975,935; Nov. 15; Sp. p. 4083; Gaz. vol. 160; p. 688.
Lamp, Automatic gas-. W. A. Carr. No. 974,748; Nov. 1; Sp. p. 1521; Gaz. vol. 160; p. 233.
Lamp, Automatically-flashing electric. W. J. Phelps. No. 976,287; Nov. 22; Sp. p. 4881; Gaz. vol. 160; p. 834.
Lamp, Automobile-. C. J. Schmalzried. No. 949,846; Feb. 22; Sp. p. 4321; Gaz. vol. 151; p. 778.
Lamp, Automobile-. E. E. Allen. No. 955,493; Apr. 19; Sp. p. 3878; Gaz. vol. 153; p. 681.

Lamp base, Incandescent-. T. G. Turner. No. 961,326; June 14; Sp. p. 2246; Gaz. vol. 155; p. 396.
Lamp, Berth-. W. J. Bohan. No. 971,351; Sept. 27; Sp. p. 4686; Gaz. vol. 158; p. 819.
Lamp body, Nernst-. O. Foell and M. Harris. No. 975,126; Nov. 8; Sp. p. 2384; Gaz. vol. 160; p. 386.
Lamp box, Carriage-. R. E. Cole. No. 946,338; Jan. 11; Sp. p. 2918; Gaz. vol. 150; p. 484.
Lamp-bracket. H. C. Engelberg. No. 970,899; Sept. 20; Sp. p. 3768; Gaz. vol. 158; p. 643.
Lamp-bracket. C. G. Thunen and G. A. Morrill. No. 973,319; Oct. 18; Sp. p. 3984; Gaz. vol. 159; p. 682.
Lamp-bracket. T. H. Cassidy. No. 976,634; Nov. 22; Sp. p. 5633; Gaz. vol. 160; p. 952.
Lamp-bracket. R. M. Newbold. No. 979,878; Dec. 27; Sp. p. 5333; Gaz. vol. 161; p. 923.
Lamp-bracket, Adjustable. R. G. Deihl. No. 963,000; June 28; Sp. p. 5786; Gaz. vol. 155; p. 1012.
Lamp-bracket, Adjustable. A. P. Smith. No. 967,682; Aug. 16; Sp. p. 3917; Gaz. vol. 157; p. 672.
Lamp-bracket, Adjustable. C. Boensch. No. 978,547; Dec. 13; Sp. p. 2437; Gaz. vol. 161; p. 419.
Lamp bracket, Signal-. M. B. Williston. No. 970,770; Sept. 20; Sp. p. 3502; Gaz. vol. 158; p. 599.
Lamp-burner. R. V. Buchanan. No. 946,331; Jan. 11; Sp. p. 2906; Gaz. vol. 150; p. 481.
Lamp-burner. H. J. Ballentine. No. 951,791; Mar. 15; Sp. p. 2713; Gaz. vol. 152; p. 495.
Lamp-burner. F. Dow. No. 958,378; May 17; Sp. p. 4325; Gaz. vol. 154; p. 706.
Lamp-burner. B. F. Fowler. No. 964,904; July 19; Sp. p. 4162; Gaz. vol. 156; p. 693.
Lamp-burner. T. Shearer. No. 969,413; Sept. 6; Sp. p. 556; Gaz. vol. 158; p. 89.
Lamp-burner. C. E. Wirth. No. 969,588; Sept. 6; Sp. p. 948; Gaz. vol. 158; p. 149.
Lamp-burner. O. M. Müller. No. 970,084; Sept. 13; Sp. p. 2028; Gaz. vol. 158; p. 344.
Lamp-burner. W. H. Burnett. No. 975,929; Nov. 15; Sp. p. 4069; Gaz. vol. 160; p. 686.
Lamp-burner. A. M. Porter. No. 976,289; Nov. 22; Sp. p. 4885; Gaz. vol. 160; p. 834.
Lamp burner, Alcohol-. A. H. S. Swan. No. 972,410; Oct. 11; Sp. p. 1940; Gaz. vol. 159; p. 340.
Lamp burner, Alcohol-vapor-. A. H. S. Swan. No. 972,945; Oct. 18; Sp. p. 3178; Gaz. vol. 159; p. 553.
Lamp-burner attachment. H. C. Lyng. No. 961,245; June 14; Sp. p. 2037; Gaz. vol. 155; p. 367.
Lamp burner, Gas-. W. H. Reid. No. 979,335; Dec. 20; Sp. p. 4151; Gaz. vol. 161; p. 716.
Lamp-burner, Safety. O. O. Berquam. No. 970,782; Sept. 20; Sp. p. 3531; Gaz. vol. 158; p. 604.
Lamp burner, Vapor-. H. Griswold. No. 960,167; May 31; Sp. p. 8095; Gaz. vol. 154; p. 1361.
Lamp burner, Vapor-. H. Griswold. No. 960,168; May 31; Sp. p. 8097; Gaz. vol. 154; p. 1362.
Lamp-burner, Wick-stop. E. S. Sanderson. No. 957,106; May 3; Sp. p. 1297; Gaz. vol. 154; p. 206.
Lamp-burners, Globe or chimney holder for. C. W. Caldwell. No. 975,327; Nov. 8; Sp. p. 2814; Gaz. vol. 160; p. 455.
Lamp, Carbid-. S. Simmons. No. 976,611; Nov. 22; Sp. p. 5585; Gaz. vol. 160; p. 944.
Lamp, Carbureting-. C. Torchebeuf and E. de Lanneau. No. 958,045; May 17; Sp. p. 3453; Gaz. vol. 154; p. 591.
Lamp, Carbureting-. C. Torchebeuf and E. de Lanneau. No. 973,240; Oct. 18; Sp. p. 3830; Gaz. vol. 159; p. 655.
Lamp-casing. J. Lawler. No. 960,179; May 31; Sp. p. 8124; Gaz. vol. 154; p. 1366.
Lamp casing, Arc-. G. M. Little. No. 964,666; July 19; Sp. p. 3567; Gaz. vol. 156; p. 610.
Lamp-chimney. P. Tennant. No. 956,609; May 3; Sp. p. 223; Gaz. vol. 154; p. 38.
Lamp-chimney attachment. C. D. Huddle. No. 965,523; July 26; Sp. p. 5472; Gaz. vol. 156; p. 931.
Lamp-chimney, Composite. G. D. Willits. No. 969,932; Sept. 13; Sp. p. 1699; Gaz. vol. 158; p. 293.
Lamp-chimney holder. G. E. Alphin. No. 956,663; May 3; Sp. p. 336; Gaz. vol. 154; p. 56.
Lamp circuit, Vapor-electric-. P. H. Thomas. No. 949,335; Feb. 15; Sp. p. 3259; Gaz. vol. 151; p. 573.
Lamp circuits, Electric switch for incandescent-. W. B. Crossland. No. 960,626; June 7; Sp. p. 796; Gaz. vol. 155; p. 130.
Lamp cleaner, Electric-. E. E. Edgerton. No. 949,419; Feb. 15; Sp. p. 3455; Gaz. vol. 151; p. 603.
Lamp-cluster. G. A. Harter. No. 965,296; July 26; Sp. p. 4946; Gaz. vol. 156; p. 853.
Lamp-controlling device for motor-cars. W. A. Greenlaw. No. 977,729; Dec. 6; Sp. p. 684; Gaz. vol. 161; p. 106.
Lamp cut-out and shunt switch, Electric-. F. F. Wagner and M. W. McDonald. No. 975,484; Nov. 15; Sp. p. 3128; Gaz. vol. 160; p. 535.
Lamp, Electric. H. N. Potter. No. 952,995; Mar. 22; Sp. p. 5170; Gaz. vol. 152; p. 928.
Lamp, Electric. R. M. Newbold. No. 954,878; Apr. 12; Sp. p. 2604; Gaz. vol. 153; p. 442.
Lamp, Electric. D. D. Lockwood. (Reissue.) No. 13,158; Oct. 18; Sp. p. 4290; Gaz. vol. 159; p. 731.
Lamp, Electric-arc. T. J. Rensing. No. 947,979; Feb. 1; Sp. p. 421; Gaz. vol. 151; p. 67.
Lamp, Electric-arc. J. C. Lincoln. No. 949,081; Feb. 15; Sp. p. 2743; Gaz. vol. 151; p. 487.
Lamp, Electric-arc. J. C. Lincoln. No. 949,151; Feb. 15; Sp. p. 2887; Gaz. vol. 151; p. 511.
Lamp, Electric-arc. J. Rignon. No. 953,859; Apr. 5; Sp. p. 356; Gaz. vol. 153; p. 63.
Lamp, Electric-arc. L. W. Pullen. No. 958,827; May 24; Sp. p. 5250; Gaz. vol. 154; p. 884.
Lamp, Electric-arc. H. Beck. No. 959,045; May 24; Sp. p. 5707; Gaz. vol. 154; p. 958.
Lamp, Electric-arc. H. W. Headland and F. Plutte. No. 960,911; June 7; Sp. p. 1345; Gaz. vol. 155; p. 226.
Lamp, Electric-arc. H. Beck. No. 962,732; June 28; Sp. p. 5275; Gaz. vol. 155; p. 920.
Lamp, Electric-arc. T. E. Adams. No. 963,736; July 12; Sp. p. 1577; Gaz. vol. 156; p. 265.
Lamp, Electric-arc. T. J. Digby. No. 967,738; Aug. 16; Sp. p. 4046; Gaz. vol. 157; p. 692.
Lamp, Electric-arc. W. Legel. No. 977,022; Nov. 29; Sp. p. 6515; Gaz. vol. 160; p. 1111.
Lamp, Electric glow-. H. Remané, E. Gottschalk, and E. Hurwitz. No. 974,296; Nov. 1; Sp. p. 493; Gaz. vol. 160; p. 72.
Lamp, Electric mercury arc-. J. M. Anck. No. 950,760; Mar. 1; Sp. p. 640; Gaz. vol. 152; p. 103.
Lamp-extinguisher. I. Greenwald, J. Blaustein, and M. Z. Weiss. No. 970,813; Sept. 20; Sp. p. 3609; Gaz. vol. 158; p. 616.
Lamp-extinguisher. I. Greenwald, J. Blaustein, M. Z. Weiss, and M. Selkovits. No. 975,352; Nov. 8; Sp. p. 2865; Gaz. vol. 160; p. 462.
Lamp-extinguishing burner. F. H. Conner. No. 955,138; Apr. 19; Sp. p. 3114; Gaz. vol. 153; p. 559.
Lamp-filament. W. D. Coolidge. No. 963,872; July 12; Sp. p. 1898; Gaz. vol. 156; p. 312.
Lamp-filament support, Incandescent-. A. S. Knight. No. 951,400; Mar. 8; Sp. p. 1919; Gaz. vol. 152; p. 333.
Lamp filaments, Forming elastic anchors for incandescent-. H. W. Bresler. No. 951,232; Mar. 8; Sp. p. 1552; Gaz. vol. 152; p. 279.
Lamp filaments, Making incandescent-electric-. W. G. Clark. No. 963,745; July 12; Sp. p. 1598; Gaz. vol. 156; p. 268.
Lamp-filler. G. B. N. Dow and A. W. Cole. No. 959,480; May 31; Sp. p. 6612; Gaz. vol. 154; p. 1128.
Lamp fitting, Electric-. R. J. F. S. Baron. No. 965,853; Aug. 2; Sp. p. 13; Gaz. vol. 157; p. 5.
Lamp-fixture. W. S. Norton. No. 968,787; Aug. 30; Sp. p. 6310; Gaz. vol. 157; p. 1100.
Lamp-fixture. P. Forg. No. 974,253; Nov. 1; Sp. p. 381; Gaz. vol. 160; p. 56.
Lamp fixture, Electric-. P. E. Doolittle. No. 973,014; Oct. 18; Sp. p. 3316; Gaz. vol. 159; p. 576.
Lamp, Flaming-arc. R. Scott. No. 975,165; Nov. 8; Sp. p. 2466; Gaz. vol. 160; p. 399.
Lamp, Flash-. J. O. Ellingson and A. B. Stout. No. 955,857; Apr. 26; Sp. p. 4692; Gaz. vol. 153; p. 834.
Lamp for liquid combustibles, Inverted incandescent. A. Glinicke and K. Zehnpfund. No. 950,908; Mar. 1; Sp. p. 937; Gaz. vol. 152; p. 150.
Lamp for motor-vehicles, Dirigible. F. W. Larcher. No. 967,529; Aug. 16; Sp. p. 3629; Gaz. vol. 157; p. 623.
Lamp for solid combustibles, Wick-. S. G. Bladh. No. 967,162; Aug. 16; Sp. p. 2870; Gaz. vol. 157; p. 497.
Lamp for vaporized-liquid combustibles, Incandescent. H. Wiktorin. No. 959,091; May 24; Sp. p. 5815; Gaz. vol. 154; p. 974.
Lamp for vehicles, Swivel-. J. E. Geary. No. 945,122; Jan. 4; Sp. p. 234; Gaz. vol. 150; p. 40.
Lamp, Gas-. A. H. Humphrey. No. 950,597; Mar. 1; Sp. p. 277; Gaz. vol. 152; p. 46.
Lamp, Gas-. F. J. Humphrey. No. 953,835; Apr. 5; Sp. p. 301; Gaz. vol. 153; p. 54.
Lamp, Gas-. F. J. Humphrey. No. 953,836; Apr. 5; Sp. p. 306; Gaz. vol. 153; p. 55.
Lamp, Gas-. A. Rector. No. 955,549; Apr. 19; Sp. p. 3986; Gaz. vol. 153; p. 700.
Lamp, Gas-. A. Rector. No. 955,903; Apr. 26; Sp. p. 4807; Gaz. vol. 153; p. 850.
Lamp, Gas-. R. M. Dixon. No. 956,572; May 3; Sp. p. 2094; Gaz. vol. 154; p. 363.
Lamp, Gas-. A. Rector. No. 957,476; May 10; Sp. p. 2094; Gaz. vol. 154; p. 363.
Lamp, Gas-. E. J. Wiggins. No. 971,581; Oct. 4; Sp. p. 151; Gaz. vol. 159; p. 28.
Lamp gas-burner. H. D. Penney. No. 968,260; Aug. 23; Sp. p. 5172; Gaz. vol. 157; p. 891.
Lamp, Gasolene-. A. B. Lee. No. 953,913; Apr. 5; Sp. p. 454; Gaz. vol. 153; p. 83.
Lamp-glass. G. Wamhoff, Jr. No. 973,729; Oct. 25; Sp. p. 4870; Gaz. vol. 159; p. 846.
Lamp-globe. R. M. Dixon. No. 965,880; Aug. 2; Sp. p. 65; Gaz. vol. 157; p. 13.
Lamp globe or shade, Gas-. T. J. Litle, Jr. No. 961,504; June 14; Sp. p. 2609; Gaz. vol. 155; p. 455.
Lamp-globe shield. J. E. Eastmond. No. 976,447; Nov. 22; Sp. p. 5241; Gaz. vol. 160; p. 889.

Alphabetical list of inventions—Continued.

Lamp-hanger. W. M. Ramsey. No. 947,550; Jan. 25; Sp. p. 5688; Gaz. vol. 150; p. 944.
Lamp hanger, Arc-. J. M. Sutor. No. 963,259; July 5; Sp. p. 600; Gaz. vol. 156; p. 83.
Lamp-holder. O. Krug. No. 971,131; Sept. 27; Sp. p. 4231; Gaz. vol. 158; p. 747.
Lamp-holding device. R. B. Benjamin. No. 950,651; Mar. 1; Sp. p. 405; Gaz. vol. 152; p. 65.
Lamp-holding device, Cluster-. R. B. Benjamin. No. 970,678; Sept. 20; Sp. p. 3294; Gaz. vol. 158; p. 567.
Lamp-holding socket, Electric-. H. W. Lawrence. No. 964,281; July 12; Sp. p. 2727; Gaz. vol. 156; p. 449.
Lamp, Hooded electric. G. E. Miller. No. 953,425; Mar. 29; Sp. p. 6131; Gaz. vol. 152; p. 1101.
Lamp, Household safety-. R. L. Victor. No. 974,727; Nov. 1; Sp. p. 1471; Gaz. vol. 160; p. 226.
Lamp, Hydrocarbon incandescent. P. Q. Wray. No. 955,571; Apr. 19; Sp. p. 4028; Gaz. vol. 153; p. 707.
Lamp-igniter. W. D. Jones. No. 970,715; Sept. 20; Sp. p. 3380; Gaz. vol. 158; p. 580.
Lamp, Incandescent. A. Krzywiec. No. 957,612; May 10; Sp. p. 2354; Gaz. vol. 154; p. 410.
Lamp, Incandescent. C. I. Dodson. No. 966,812; Aug. 9; Sp. p. 2135; Gaz. vol. 157; p. 352.
Lamp, Incandescent. D. H. Bering. No. 973,157; Oct. 18; Sp. p. 3635; Gaz. vol. 159; p. 626.
Lamp, Incandescent. G. F. Atwood. No. 976,248; Nov. 22; Sp. p. 4800; Gaz. vol. 160; p. 820.
Lamp, Incandescent electric. A. F. F. Stodd. No. 962,795; June 28; Sp. p. 5404; Gaz. vol. 155; p. 943.
Lamp, Incandescent electric. E. W. Rice, Jr. No. 964,692; July 19; Sp. p. 3731; Gaz. vol. 156; p. 619.
Lamp, Incandescent electric. A. Lederer. No. 971,453; Sept. 27; Sp. p. 4865; Gaz. vol. 158; p. 852.
Lamp, Incandescent electric. T. E. Robertson. No. 973,703; Oct. 25; Sp. p. 4813; Gaz. vol. 159; p. 837.
Lamp, Incandescent electric. A. A. Wilkins. No. 978,094; Dec. 6; Sp. p. 1447; Gaz. vol. 161; p. 234.
Lamp, Incandescent gas-. J. Rubin. No. 969,984; Sept. 13; Sp. p. 1815; Gaz. vol. 158; p. 309.
Lamp, Incandescent gas-. E. H. Still. No. 973,580; Oct. 25; Sp. p. 4549; Gaz. vol. 159; p. 793.
Lamp, Incandescent gas-. J. Maas. No. 973,950; Oct 25; Sp. p. 5313; Gaz. vol. 159; p. 923.
Lamp, Incandescent gas-. E. Mineer. No. 975,561; Nov. 15; Sp. p. 3313; Gaz. vol. 160; p. 562.
Lamp, Incandescent gas-. A. C. Noad. No. 978,477; Dec. 13; Sp. p. 2294; Gaz. vol. 161; p. 396.
Lamp, Incandescent-mantle. C. M. Lungren. No. 968,375; Aug. 23; Sp. p. 5405; Gaz. vol. 157; p. 933.
Lamp, Incandescent oil-. J. C. Preston. No. 966,358; Aug. 2; Sp. p. 1067; Gaz. vol. 157; p. 272.
Lamp, Incandescent petroleum-. M. Malkiel. No. 945,791; Jan. 11; Sp. p. 1740; Gaz. vol. 150; p. 292.
Lamp indicator, Arc-. J. H. Allen. No. 967,151; Aug. 16; Sp. p. 2849; Gaz. vol. 157; p. 493.
Lamp, Induction-. P. C. Hewitt. No. 966,204; Aug. 2; Sp. p. 778; Gaz. vol. 157; p. 123.
Lamp, Inverted incandescent gas-. G. Raap. No. 949,547; Feb. 15; Sp. p. 3705; Gaz. vol. 151; p. 644.
Lamp, Inverted incandescent gas-. P. Lucas. No. 977,108; Nov. 29; Sp. p. 6700; Gaz. vol. 160; p. 1140.
Lamp, Inverted incandescent gas-. A. J. Hofmann. No. 979,855; Dec. 27; Sp. p. 5288; Gaz. vol. 161; p. 915.
Lamp, Inverted-mantle. F. M. Brooks. No. 978,133; Dec. 13; Sp. p. 1560; Gaz. vol. 161; p. 277.
Lamp, Kerosene-. B. F. Roehrig. No. 954,650; Apr. 12; Sp. p. 2052; Gaz. vol. 153; p. 361.
Lamp-lens. S. S. Wilson. No. 945,356; Jan. 4; Sp. p. 763; Gaz. vol. 150; p. 117.
Lamp lighting and extinguishing device, Street-. A. J. Bedford. No. 966,379; Aug. 2; Sp. p. 1104; Gaz. vol. 157; p. 178.
Lamp lighting and extinguishing means, Gas-. A. Giorgi. No. 965,102; July 19; Sp. p. 4550; Gaz. vol. 156; p. 759.
Lamp lock, Electric-. E. H. Weber. No. 963,191; July 5; Sp. p. 414; Gaz. vol. 156; p. 59.
Lamp lock, Incandescent-. L. Davis. No. 956,047; Apr. 26; Sp. p. 5103; Gaz. vol. 153; p. 900.
Lamp locking device, Incandescent-. C. J. Timm and J. A. Barnhardt. No. 959,818; May 31; Sp. p. 7328; Gaz. vol. 154; p. 1241.
Lamp manipulator, Incandescent-. R. H. Berkstresser. No. 977,158; Nov. 29; Sp. p. 6813; Gaz. vol. 160; p. 1158.
Lamp mantles, Attachment for incandescent-. R. M. Dixon. No. 960,851; June 7; Sp. p. 1231; Gaz. vol. 155; p. 206.
Lamp, Mercury-vapor. L. E. Dempster. No. 974,037; Oct. 25; Sp. p. 5504; Gaz. vol. 159; p. 954.
Lamp, Metal-filament. C. Rumenapp. No. 959,075; May 24; Sp. p. 5785; Gaz. vol. 154; p. 969.
Lamp, Metallic-filament electric glow-. H. Kužel. No. 960,962; June 7; Sp. p. 1444; Gaz. vol. 155; p. 243.
Lamp, Metallic-filament incandescent. W. Majert. No. 949,153; Feb. 15; Sp. p. 2892; Gaz. vol. 151; p. 512.
Lamp, Miner's. T. Davis and R. F. Monteith. No. 949,318; Feb. 15; Sp. p. 3218; Gaz. vol. 151; p. 567.
Lamp, Miner's. L. Klun. No. 953,093; Mar. 29; Sp. p. 5408; Gaz. vol. 152; p. 991.
Lamp, Miner's. R. Seippel. No. 953,491; Mar. 29; Sp. p. 6272; Gaz. vol. 152; p. 1124.
Lamp, Miner's. P. Togleson. No. 969,812; Sept. 13; Sp. p. 1447; Gaz. vol. 158; p. 251.
Lamp, Miner's. D. Miglio. No. 974,690; Nov. 1; Sp. p. 1388; Gaz. vol. 160; p. 215.
Lamp, Miner's. M. J. Curtis. No. 976,785; Nov. 22; Sp. p. 5948; Gaz. vol. 160; p. 1004.
Lamp, Miner's safety-. J. Szombathy. No. 973,234; Oct. 18; Sp. p. 3819; Gaz. vol. 159; p. 653.
Lamp mounts, Machine for forming incandescent-. E. Simon. No. 955,442; Apr. 19; Sp. p. 3768; Gaz. vol. 153; p. 662.
Lamp or candle, Disinfecting. W. L. Plumb. No. 978,200; Dec. 13; Sp. p. 1702; Gaz. vol. 161; p. 299.
Lamp or lantern burner. A. F. Prahm. No. 965,597; July 26; Sp. p. 5627; Gaz. vol. 156; p. 958.
Lamp, Projecting-. G. A. H. Kellner. No. 969,785; Sept. 13; Sp. p. 1379; Gaz. vol. 158; p. 242.
Lamp, Projector-. J. W. Kellogg. No. 947,993; Feb. 1; Sp. p. 442; Gaz. vol. 151; p. 72.
Lamp-receptacle. H. W. Lawrence. (Reissue.) No. 13,157; Oct. 11; Sp. p. 2775; Gaz. vol. 159; p. 473.
Lamp receptacle for electric signs, Electric-. F. W. Ruby. (Reissue.) No. 13,095; Mar. 15; Sp. p. 3982; Gaz. vol. 152; p. 713.
Lamp receptacle, Incandescent-. H. U. Badeau. No. 960,808; June 7; Sp. p. 1157; Gaz. vol. 155; p. 193.
Lamp receptacle, Incandescent-electric-. A. Weber, Jr. No. 965,258; July 26; Sp. p. 4865; Gaz. vol. 156; p. 840.
Lamp receptacle or socket, Electric-. W. S. Ryan. No. 962,589; June 28; Sp. p. 4981; Gaz. vol. 155; p. 872.
Lamp-receptacle, Series. C. D. Gervin. No. 966,681; Aug. 9; Sp. p. 1800; Gaz. vol. 157; p. 308.
Lamp, Reflecting-. W. S. Perry. No. 950,600; Mar. 1; Sp. p. 284; Gaz. vol. 152; p. 47.
Lamp, Safety-. H. Feldmann. No. 960,869; June 7; Sp. p. 1266; Gaz. vol. 155; p. 212.
Lamp safety device, Arc-. O. F. Asbury. No. 977,774; Dec. 6; Sp. p. 782; Gaz. vol. 161; p. 121.
Lamp safety device, Electric-. C. W. Eisenmann. No. 955,777; Apr. 19; Sp. p. 4498; Gaz. vol. 153; p. 777.
Lamp, Sanctuary-. L. M. Wilde. No. 959,412; May 24; Sp. p. 6449; Gaz. vol. 154; p. 1079.
Lamp, Sectional incandescent. G. E. Bill and A. D. Redman, Sr. No. 955,748; Apr. 19; Sp. p. 4445; Gaz. vol. 153; p. 767.
Lamp, Self-regulating arc-. M. H. Baker. No. 969,510; Sept. 6; Sp. p. 758; Gaz. vol. 158; p. 120.
Lamp-shade. A. H. Hoag. No. 953,950; Apr. 5; Sp. p. 524; Gaz. vol. 153; p. 95.
Lamp-shade holder. J. Cruikshank. No. 951,598; Mar. 8; Sp. p. 2298; Gaz. vol. 152; p. 399.
Lamp-shade holder. A. J. Morgan. No. 958,665; May 17; Sp. p. 4882; Gaz. vol. 154; p. 801.
Lamp-shade holder, Electric-. G. Habig. No. 964,016; July 12; Sp. p. 2191; Gaz. vol. 156; p. 359.
Lamp shade, Incandescent-. A. D. Jones. No. 966,215; Aug. 2; Sp. p. 805; Gaz. vol. 157; p. 127.
Lamp shades and chimneys, Supporting means for. M. Donohoe. No. 975,021; Nov. 8; Sp. p. 2144; Gaz. vol. 160; p. 350.
Lamp shock-absorber and adapter, Tungsten-. J. H. Dale. No. 979,933; Dec. 27; Sp. p. 5442; Gaz. vol. 161; p. 940.
Lamp, Signal-. R. Black. No. 967,161; Aug. 16; Sp. p. 2869; Gaz. vol. 157; p. 497.
Lamp-socket. C. D. Platt. No. 966,355; Aug. 2; Sp. p. 1059; Gaz. vol. 157; p. 271.
Lamp-socket. J. Darby. No. 972,343; Oct. 11; Sp. p. 1793; Gaz. vol. 159; p. 315.
Lamp-socket adjustable casing. E. H. Freeman. No. 972,526; Oct. 11; Sp. p. 2206; Gaz. vol. 159; p. 381.
Lamp socket and securing means therefor, Electric-. W. C. Tregoning. No. 966,966; Aug. 9; Sp. p. 2442; Gaz. vol. 157; p. 402.
Lamp-socket attachment, Electric-. H. E. Plunkett. No. 957,371; May 10; Sp. p. 1886; Gaz. vol. 154; p. 328.
Lamp-socket cap, Electric-. G. W. Goodridge. No. 958,625; May 17; Sp. p. 4800; Gaz. vol. 154; p. 789.
Lamp-socket cap, Electric-. G. W. Goodridge. No. 958,626; May 17; Sp. p. 4801; Gaz. vol. 154; p. 789.
Lamp-socket casing, Incandescent-. C. D. Platt. No. 978,483; Dec. 13; Sp. p. 2306; Gaz. vol. 161; p. 398.
Lamp-socket, Cluster. R. B. Benjamin. No. 946,892; Jan. 18; Sp. p. 4235; Gaz. vol. 150; p. 697.
Lamp-socket, Cluster. C. D. Gervin. No. 949,533; Feb. 15; Sp. p. 3673; Gaz. vol. 151; p. 639.
Lamp-socket, Cluster. R. B. Benjamin. No. 950,650; Mar. 1; Sp. p. 401; Gaz. vol. 152; p. 65.
Lamp-socket, Cluster. R. B. Benjamin. No. 950,652; Mar. 1; Sp. p. 407; Gaz. vol. 152; p. 66.
Lamp-socket, Cluster. J. H. Dale. No. 958,727; May 24; Sp. p. 5010; Gaz. vol. 154; p. 848.
Lamp-socket, Cluster. J. H. Dale. No. 958,728; May 24; Sp. p. 5011; Gaz. vol. 154; p. 848.
Lamp-socket, Cluster. J. H. Dale. No. 958,729; May 24; Sp. p. 5014; Gaz. vol. 154; p. 849.
Lamp socket-cover and shade-holder, Electric-. G. W. Cassidy. No. 962,076; June 21; Sp. p. 3832; Gaz. vol. 155; p. 671.

Lamp socket, Electric-. J. G. Peterson. No. 947,123; Jan. 18; Sp. p. 4674; Gaz. vol. 150; p. 771.
Lamp socket, Electric-. W. S. McLewee. No. 948,670; Feb. 8; Sp. p. 1883; Gaz. vol. 151; p. 324.
Lamp socket, Electric-. R. B. Benjamin. No. 949,209; Feb. 15; Sp. p. 2991; Gaz. vol. 151; p. 531.
Lamp socket, Electric-. F. A. Lavercombe. No. 949,985; Feb. 22; Sp. p. 4689; Gaz. vol. 151; p. 829.
Lamp socket, Electric-. J. G. Peterson. No. 952,276; Mar. 15; Sp. p. 3664; Gaz. vol. 152; p. 656.
Lamp socket, Electric-. V. T. Bailey. No. 956,265; Apr. 26; Sp. p. 5600; Gaz. vol. 153; p. 976.
Lamp socket, Electric-. F. E. Seeley. No. 957,719; May 10; Sp. p. 2581; Gaz. vol. 154; p. 447.
Lamp socket, Electric-. R. B. Benjamin. No. 958,216; May 17; Sp. p. 3840; Gaz. vol. 154; p. 649.
Lamp socket, Electric-. J. G. Peterson. No. 959,594; May 31; Sp. p. 6860; Gaz. vol. 154; p. 1167.
Lamp socket, Electric-. G. W. Goodridge. No. 961,605; June 14; Sp. p. 2824; Gaz. vol. 155; p. 489.
Lamp socket, Electric-. F. P. Poole. No. 965,743; July 26; Sp. p. 5925; Gaz. vol. 156; p. 1008.
Lamp socket, Electric-. J. G. Peterson. No. 966,239; Aug. 2; Sp. p. 849; Gaz. vol. 157; p. 135.
Lamp socket, Electric-. J. G. Peterson. No. 966,240; Aug. 2; Sp. p. 850; Gaz. vol. 157; p. 135.
Lamp socket, Electric-. J. H. Goehst. No. 968,147; Aug. 23; Sp. p. 4924; Gaz. vol. 157; p. 853.
Lamp socket, Electric-. R. B. Benjamin. No. 974,947; Nov. 8; Sp. p. 1974; Gaz. vol. 160; p. 325.
Lamp socket, Electric-. J. S. Stewart. No. 976,519; Nov. 22; Sp. p. 5378; Gaz. vol. 160; p. 912.
Lamp socket, Electric-. H. B. Chandler and J. A. Fleet. No. 979,428; Dec. 27; Sp. p. 4333; Gaz. vol. 161; p. 769.
Lamp socket for reducing the light, Regulating incandescent-. E. H. Smith. No. 957,806; May 10; Sp. p 2768; Gaz. vol. 154; p. 474.
Lamp socket, Incandescent-. F. C. Aschenbrener. No. 948,754; Feb. 8; Sp. p. 2075; Gaz. vol. 151; p. 353.
Lamp socket, Incandescent-. R. R. Miller. (Reissue.) No. 13,081; Feb. 8; Sp. p. 2533; Gaz. vol. 151; p. 431.
Lamp socket, Incandescent-. W. H. Perkins. No. 949,363; Feb. 15; Sp. p. 3326; Gaz. vol. 151; p. 583.
Lamp socket, Incandescent-. H. R. Sargent. No. 954,823; Apr. 12; Sp. p. 2472; Gaz. vol. 153; p. 421.
Lamp socket, Incandescent-. N. Marshall. No. 965,206; July 26; Sp. p. 4761; Gaz. vol. 156; p. 823.
Lamp socket, Incandescent-. R. B. Benjamin. No. 974,946; Nov. 8; Sp. p. 1972; Gaz. vol. 160; p. 325.
Lamp socket, Incandescent-electric-. D. E. Bown. No. 949,517; Feb. 15; Sp. p. 3641; Gaz. vol. 151; p. 634.
Lamp socket, Incandescent-electric-. J. J. Rooney. No. 951,455; Mar. 8; Sp. p. 2028; Gaz. vol. 152; p. 351.
Lamp socket, Incandescent-electric-. J. K. Lux. No. 954,117; Apr. 5; Sp. p. 874; Gaz. vol. 153; p. 151.
Lamp socket, Incandescent-electric-. S. B. Van Ranst. No. 979,608; Dec. 27; Sp. p. 4736; Gaz. vol. 161; p. 831.
Lamp-socket, Multiple. F. E. Seeley. No. 945,618; Jan. 4; Sp. p. 1304; Gaz. vol. 150; p. 204.
Lamp-socket, Plural. R. B. Benjamin. No. 950,713; Mar. 1; Sp. p. 548; Gaz. vol. 152; p. 86.
Lamp-socket, Plural. R. B. Benjamin. No. 972,986; Oct. 18; Sp. p. 3261; Gaz. vol. 159; p. 567.
Lamp-socket, Plural. R. B. Benjamin. No. 972,987; Oct. 18; Sp. p. 3264; Gaz. vol. 159; p. 568.
Lamp socket, Street-. C. L. Bundy and A. H. Manwaring. No. 960,807; June 7; Sp. p. 1154; Gaz. vol. 155; p. 192.
Lamp-socket support, Electric-. H. E. Plass. No. 963,647; July 5; Sp. p. 1373; Gaz. vol. 156; p. 213.
Lamp-socket support, Electric-. W. C. Tregoning. No. 966,623; Aug. 9; Sp. p. 1692; Gaz. vol. 157; p. 288.
Lamp-socket, Twin. H. R. Sargent. No. 960,414; June 7; Sp. p. 359; Gaz. vol. 155; p. 60.
Lamp sockets, Adjustable casing for electric-. C. D. Platt. No. 954,695; Apr. 12; Sp. p. 2139; Gaz. vol. 153; p. 374.
Lamp sockets and the like, Securing means for electric-. J. S. Crossley. No. 971,976; Oct. 4; Sp. p. 1038; Gaz. vol. 159; p. 173.
Lamp sockets, Casing for electric-. A. L. Jacobs. No. 956,970; May 3; Sp. p. 1029; Gaz. vol. 154; p. 161.
Lamp-sockets, Strain-relief for. F. A. Swan. No. 962,063; June 21; Sp. p. 3805; Gaz. vol. 155; p. 666.
Lamp-sockets, Switch-operating device for. H. E. Plunkett. No. 979,693; Dec. 27; Sp. p. 4907; Gaz. vol. 161; p. 860.
Lamp-stand. W. McNair. No. 976,587; Nov. 22; Sp. p. 5540; Gaz. vol. 160; p. 936.
Lamp starting device, Arc-. G. M. Little. No. 965,139; July 19; Sp. p. 4618; Gaz. vol. 156; p. 770.
Lamp-stem centering and drawing tool, Incandescent-. R. K. Mickey. No. 970,938; Sept. 20; Sp. p. 3838; Gaz. vol. 158; p. 655.
Lamp support, Adjustable electric-. J. B. Coe. No. 960,076; May 31; Sp. p. 7932; Gaz. vol. 154; p. 1331.
Lamp support, Carriage-. H. L. Cowles. No. 965,158; July 26; Sp. p. 4666; Gaz. vol. 156; p. 808.
Lamp support, Electric-. S. W. Bailhache. No. 960,618; June 7; Sp. p. 785; Gaz. vol. 155; p. 128.
Lamp support, Electric-. J. Néple. No. 960,998; June 7; Sp. p. 1532; Gaz. vol. 155; p. 256.
Lamp-support, Resilient. A. Woodley. No. 957,287; May 10; Sp. p. 1713; Gaz. vol. 154; p. 300.
Lamp supporting and turning mechanism. C. A. Howell. No. 979,495; Dec. 27; Sp. p. 4478; Gaz. vol. 161; p. 791.
Lamp switch, Incandescent-. J. A. Mebane. No. 959,572; May 31; Sp. p. 6817; Gaz. vol. 154; p. 1160.
Lamp system, Incandescent-. Y. Kawasaki. No. 962,435; June 28; Sp. p. 4630; Gaz. vol. 155; p. 818.
Lamp, Trick electric pocket-. A. Jedel. No. 955,078; Apr. 12; Sp. p. 2991; Gaz. vol. 153; p. 507.
Lamp, Vapor-. M. Galvao. No. 953,906; Apr. 5; Sp. p. 440; Gaz. vol. 153; p. 80.
Lamp, Vapor-. C. Halstead. No. 960,011; May 31; Sp. p. 7782; Gaz. vol. 154; p. 1310.
Lamp, Vapor-. H. C. Wright. No. 960,475; June 7; Sp. p. 466; Gaz. vol. 155; p. 79.
Lamp, Vapor-. C. M. Neisler. No. 978,191; Dec. 13; Sp. p. 1682; Gaz. vol. 161; p. 296.
Lamp, Vapor-burning. L. L. Aydt. No. 946,712; Jan. 18; Sp. p. 3790; Gaz. vol. 150; p. 634.
Lamp, Vapor-burning. H. A. Barr. No. 962,296; June 21; Sp. p. 4321; Gaz. vol. 155; p. 746.
Lamp, Vapor-generating. G. Bohner. No. 967,316; Aug. 16; Sp. p. 3174; Gaz. vol. 157; p. 549.
Lamp, Vehicle-. I. H. Atwood. No. 965,551; July 26; Sp. p. 5536; Gaz. vol. 156; p. 943.
Lamp, Vehicle-. H. W. Beebe. No. 969,445; Sept. 6; Sp. p. 619; Gaz. vol. 158; p. 99.
Lamp wire connection, Electrical-. S. Ashdown. No. 979,636; Dec. 27; Sp. p. 4796; Gaz. vol. 161; p. 842.
Lamp with concentrated radiation, Vapor-. P. C. Hewitt. No. 966,203; Aug. 2; Sp. p. 777; Gaz. vol. 157; p. 123.
Lamps, Adjustable stand for search-. A. Krauth. No. 955,971; Apr. 26; Sp. p. 4949; Gaz. vol. 153; p. 875.
Lamps, Adjustable support for vapor-. S. E. Flichtner. No. 946,027; Jan. 11; Sp. p. 2256; Gaz. vol. 150; p. 375.
Lamps after a certain time, Apparatus for automatic extinguishing of. E. A. Fagerlund. No. 947,152; Jan. 18; Sp. p. 4734; Gaz. vol. 150; p. 780.
Lamps and analogous structures, Locking mechanism for. R. H. Welles. No. 961,706; June 14; Sp. p. 3018; Gaz. vol. 155; p. 522.
Lamps and lanterns, Burner-fastening for. C. L. Betts. No. 962,115; June 21; Sp. p. 3930; Gaz. vol. 155; p. 685.
Lamps and sockets, Lock-guard for incandescent. H. Hubbell. No. 954,963; Apr. 12; Sp. p. 2778; Gaz. vol. 153; p. 470.
Lamps, Apparatus for exhausting incandescent. F. L. O. Wadsworth. No. 945,823; Jan. 11; Sp. p. 1813; Gaz. vol. 150; p. 304.
Lamps, Apparatus for igniting miners' safety-. E. A. Hailwood. No. 946,670; Jan. 18; Sp. p. 3707; Gaz. vol. 150; p. 620.
Lamps, Apparatus for lighting miners' safety-. J. C. Bowie and J. H. Phelps. No. 972,675; Oct. 11; Sp. p. 2533; Gaz. vol. 159; p. 431.
Lamps at prearranged times from a given station, Means for lighting and extinguishing a system of gas-. J. Brazier and H. Watson. No. 972,500; Oct. 11; Sp. p. 2130; Gaz. vol. 159; p. 370.
Lamps, Automatic apparatus for lighting and extinguishing gas-. N. S. McNab and J. S. Link. No. 969,182; Sept. 6; Sp. p. 84; Gaz. vol. 158; p. 14.
Lamps, Automatic controlling device for vehicle-. H. Ehlen and C. E. Rudy. No. 950,615; Mar. 1; Sp. p. 317; Gaz. vol. 152; p. 52.
Lamps, Ball-clutch for arc-. J. T. Beechlyn. No. 948,293; Feb. 1; Sp. p. 1066; Gaz. vol. 151; p. 172.
Lamps, Box for packing electric incandescent. M. I. Cooper. No. 977,935; Dec. 6; Sp. p. 1115; Gaz. vol. 161; p. 178.
Lamps, Carbon-feeding mechanism for arc-. L. O. Kozar. No. 945,960; Jan. 11; Sp. p. 2129; Gaz. vol. 150; p. 354.
Lamps, Chandelier for gas-. T. J. Litle, Jr. No. 947,665; Jan. 25; Sp. p. 5924; Gaz. vol. 150; p. 984.
Lamps, Clutch arrangement for arc-. T. L. Carbone. No. 967,323; Aug. 16; Sp. p. 3187; Gaz. vol. 157; p. 552.
Lamps, Combined box and socket for electric. H. W. Lawrence. No. 966,026; Aug. 2; Sp. p. 394; Gaz. vol. 157; p. 63.
Lamps, Cooling-vane for second-class glower-. A. Kusebauch. No. 977,198; Nov. 29; Sp. p. 6908; Gaz. vol. 160; p. 1173.
Lamps, Electric connections for carriage-. C. O. Mathews. No. 978,608; Dec. 13; Sp. p. 2600; Gaz. vol. 161; p. 442.
Lamps, Electric-light attachment for gas-. J. C. Stearns. No. 974,930; Nov. 8; Sp. p. 1933; Gaz. vol. 160; p. 319.
Lamps, Gas-burner attachment for oil-burning. C. Bergener. No. 974,630; Nov. 1; Sp. p. 1260; Gaz. vol. 160; p. 194.
Lamps, Gas-lighter for automobile-. H. V. Cole. No. 961,681; June 14; Sp. p. 2973; Gaz. vol. 155; p. 514.
Lamps, Heater and glower renewal for second-class-conductor. O. Foell, A. Kusebauch, and R. Neckerman. No. 979,455; Dec. 27; Sp. p. 4397; Gaz. vol. 161; p. 778.
Lamps, Heater attachment for gas-. H. F. Bloom. No. 971,242; Sept. 27; Sp. p. 4484; Gaz. vol. 158; p. 785.
Lamps, Key-socket for electric incandescent. G. W. Goodridge. No. 969,617; Sept. 6; Sp. p. 998; Gaz. vol. 158; p. 159.

Alphabetical list of inventions—Continued.

Lamps, Lock-guard for incandescent. H. Hubbell. No. 953,834; Apr. 5; Sp. p. 300; Gaz. vol. 153; p. 54.
Lamps, Machine for making the joint between the filament-support and the lamp-bulb in incandescent electric. J. Barrollier. No. 968,524; Aug. 30; Sp. p. 5725; Gaz. vol. 157; p. 1009.
Lamps, Machine for manufacturing incandescent. G. W. Beadle. No. 971,515; Oct. 4; Sp. p. 9; Gaz. vol. 159; p. 4.
Lamps, Making mantles for incandescent gas-. O. Kaufman. No. 975,769; Nov. 15; Sp. p. 3746; Gaz. vol. 160; p. 631.
Lamps, Mantle-burner for kerosene-. H. E. Rider. No. 955,829; Apr. 19; Sp. p. 4603; Gaz. vol. 153; p. 795.
Lamps, Manufacture of incandescent electric. D. J. O'Brien. No. 964,474; July 12; Sp. p. 3102; Gaz. vol. 156; p. 510.
Lamps, Manufacturing incandescent. R. K. Mickey. No. 966,571; Aug. 9; Sp. p. 1592; Gaz. vol. 157; p. 271.
Lamps, Manufacturing the hooks intended to support the filaments of electric incandescent. P. G. Triquet. No. 967,084; Aug. 9; Sp. p. 2697; Gaz. vol. 157; p. 443.
Lamps, Metallic filament for incandescent. C. Farkas. No. 945,504; Jan. 4; Sp. p. 1077; Gaz. vol. 150; p. 166.
Lamps, Multiple socket for incandescent. F. J. Russell. No. 947,763; Jan. 25; Sp. p. 6094; Gaz. vol. 150; p. 1016.
Lamps, Obtaining metallic attachments for incandescent. P. Azaria. No. 946,192; Jan. 11; Sp. p. 2603; Gaz. vol. 150; p. 432.
Lamps of cycles, automobiles, &c., Pyrophoric igniting device for. C. F. Dröll. No. 961,588; June 14; Sp. p. 2794; Gaz. vol. 155; p. 483.
Lamps on vehicles, Means for automatically controlling. R. G. Stanley. No. 957,010; May 3; Sp. p. 1111; Gaz. vol. 154; p. 174.
Lamps, Pull-socket for electric. G. W. Goodridge. No. 979,475; Dec. 27; Sp. p. 4440; Gaz. vol. 161; p. 784.
Lamps, Pull-socket for electric incandescent. J. L. Moore. No. 970,255; Sept. 13; Sp. p. 2393; Gaz. vol. 158; p. 403.
Lamps, Pull-socket for incandescent. H. T. Paiste. No. 946,395; Jan. 11; Sp. p. 3127; Gaz. vol. 150; p. 504.
Lamps, Regenerating carbon-filament electric incandescent. E. A. Krüger. No. 958,652; May 17; Sp. p. 4855; Gaz. vol. 154; p. 797.
Lamps, Safety transport-carrier for electric incandescent. M. I. Cooper. No. 969,133; Aug. 30; Sp. p. 7009; Gaz. vol. 157; p. 1219.
Lamps, Shock-absorber for tungsten-. F. Schwartz and L. Kleinmann. No. 957,110; May 3; Sp. p. 1302; Gaz. vol. 154; p. 208.
Lamps, Shock-absorbing and cord-adjusting device for incandescent electric. G. A. Burnham. No. 960,269; June 7; Sp. p. 62; Gaz. vol. 155; p. 13.
Lamps, Sign attachment for. F. J. Pfister. No. 954,820; Apr. 12; Sp. p. 2464; Gaz. vol. 153; p. 420.
Lamps, Starting device for electric. G. M. Little. No. 964,665; July 19; Sp. p. 3564; Gaz. vol. 156; p. 610.
Lamps, System of lighting and distribution by vapor-. P. H. Thomas. No. 968,897; Aug. 30; Sp. p. 6531; Gaz. vol. 157; p. 1137.
Lamps, System of lighting and distribution by vapor-. P. H. Thomas. No. 969,004; Aug. 30; Sp. p. 6735; Gaz. vol. 157; p. 1173.
Lamps, System of lighting by gas or vapor electric. H. N. Potter. No. 956,168; Apr. 26; Sp. p. 5380; Gaz. vol. 153; p. 944.
Lamps, Vaporizing and igniting means for hydrocarbon-. Y. Kawasaki. No. 953,748; Apr. 5; Sp. p. 132; Gaz. vol. 153; p. 26.
Lamplighter. C. A. Hacker. No. 966,328; Aug. 2; Sp. p. 1006; Gaz. vol. 157; p. 162.
Land-leveler. H. M. Sproul. No. 972,279; Oct. 11; Sp. p. 1676; Gaz. vol. 159; p. 294.
Land-packer. A. E. Smith. No. 954,653; Apr. 12; Sp. p. 2058; Gaz. vol. 153; p. 362.
Land-roller. A. H. Smithson. No. 950,412; Feb. 22; Sp. p. 5553; Gaz. vol. 151; p. 973.
Land-roller. F. E. Pennington. No. 953,546; Mar. 29; Sp. p. 6387; Gaz. vol. 152; p. 1144.
Land-roller. E. S. Wilder. No. 953,771; Apr. 5; Sp. p. 178; Gaz. vol. 153; p. 33.
Land-roller. W. R. Canaday. No. 962,311; June 21; Sp. p. 4351; Gaz. vol. 155; p. 751.
Land-roller. H. L. Claiborne. No. 974,357; Nov. 1; Sp. p. 643; Gaz. vol. 160; p. 95.
Land-roller. D. F. Williams. No. 976,764; Nov. 22; Sp. p. 5899; Gaz. vol. 160; p. 996.
Lantern. W. S. Hamm. No. 947,036; Jan. 18; Sp. p. 4523; Gaz. vol. 150; p. 745.
Lantern. W. S. Hamm. No. 947,037; Jan. 18; Sp. p. 4525; Gaz. vol. 150; p. 745.
Lantern. W. S. Hamm. No. 947,038; Jan. 18; Sp. p. 4526; Gaz. vol. 150; p. 746.
Lantern. E. C. Everett. No. 951,420; Mar. 8; Sp. p. 1955; Gaz. vol. 152; p. 339.
Lantern. F. D. Spear. No. 959,635; May 31; Sp. p. 6935; Gaz. vol. 154; p. 1181.
Lantern. L. A. Roberts. No. 967,562; Aug. 16; Sp. p. 3685; Gaz. vol. 157; p. 634.
Lantern. L. A. Roberts. No. 967,563; Aug. 16; Sp. p. 3687; Gaz. vol. 157; p. 634.
Lantern. A. H. Handlan, Jr. No. 968,347; Aug. 23; Sp. p. 5352; Gaz. vol. 157; p. 923.
Lantern. W. S. Hamm. No. 970,815; Sept. 20; Sp. p. 3612; Gaz. vol. 158; p. 616.
Lantern. E. T. Scanlan. No. 971,567; Oct. 4; Sp. p. 126; Gaz. vol. 159; p. 24.
Lantern. F. N. Thiel. No. 972,413; Oct. 11; Sp. p. 1947; Gaz. vol. 159; p. 341.
Lantern. H. F. Maynes. No. 973,529; Oct. 25; Sp. p. 4442; Gaz. vol. 159; p. 776.
Lantern. C. Bergener. No. 977,775; Dec. 6; Sp. p. 784; Gaz. vol. 161; p. 121.
Lantern. F. Lenne. No. 978,172; Dec. 13; Sp. p. 1640; Gaz. vol. 161; p. 290.
Lantern. J. H. Hill. No. 978,293; Dec. 13; Sp. p. 1904; Gaz. vol. 161; p. 333.
Lantern and lunch-receptacle. E. Cunningham. No. 959,118; May 24; Sp. p. 5863; Gaz. vol. 154; p. 982.
Lantern-carrier. A. J. Aune. No. 977,428; Dec. 6; Sp. p. 5; Gaz. vol. 161; p. 4.
Lantern, Convertible projection-. C. F. Dutton, Jr. No. 951,418; Mar. 8; Sp. p. 1952; Gaz. vol. 152; p. 339.
Lantern, Folding. C. H. Stonebridge. No. 963,826; July 12; Sp. p. 1798; Gaz. vol. 156; p. 295.
Lantern-frame. A. H. Handlan, Jr. No. 968,348; Aug. 23; Sp. p. 5353; Gaz. vol. 157; p. 923.
Lantern-frame. A. H. Handlan, Jr. No. 979,848; Dec. 27; Sp. p. 5272; Gaz. vol. 161; p. 913.
Lantern-globe lifter. F. L. Walker. No. 963,838; July 12; Sp. p. 1825; Gaz. vol. 156; p. 300.
Lantern-guard. C. Bergener. No. 974,629; Nov. 1; Sp. p. 1258; Gaz. vol. 160; p. 193.
Lantern, Hand-. G. M. Otto. No. 979,994; Dec. 27; Sp. p. 5557; Gaz. vol. 161; p. 960.
Lantern-holder. F. Connarn. No. 967,106; Aug. 9; Sp. p. 2748; Gaz. vol. 157; p. 451.
Lantern-holder. N. D. Bjorklund. No. 970,171; Sept. 13; Sp. p. 2197; Gaz. vol. 158; p. 373.
Lantern-holder. A. C. Hewitt. No. 971,378; Sept. 27; Sp. p. 4740; Gaz. vol. 158; p. 828.
Lantern-holder. L. Olian. No. 979,550; Dec. 27; Sp. p. 4605; Gaz. vol. 161; p. 810.
Lantern-hook. S. Gordon. No. 978,734; Dec. 13; Sp. p. 2859; Gaz. vol. 161; p. 484.
Lantern, Insulated projecting-. C. M. Lungren. No. 953,096; Mar. 29; Sp. p. 5412; Gaz. vol. 152; p. 991.
Lantern-lighting device. J. P. Maloney. No. 977,650; Dec. 6; Sp. p. 524; Gaz. vol. 161; p. 79.
Lantern, Moving-picture projecting-. W. N. Selig. No. 971,864; Oct. 4; Sp. p. 753; Gaz. vol. 159; p. 131.
Lantern, Projection-. C. F. Dutton, Jr. No. 960,519; June 7; Sp. p. 564; Gaz. vol. 155; p. 93.
Lantern, Railway-. W. R. Lawson and J. Howe. No. 951,422; Mar. 8; Sp. p. 1957; Gaz. vol. 152; p. 340.
Lantern, Railway-. J. Wright. No. 977,251; Nov. 29; Sp. p. 7006; Gaz. vol. 160; p. 1191.
Lantern, Reflecting-. N. H. Brown. No. 954,408; Apr. 5; Sp. p. 1505; Gaz. vol. 153; p. 250.
Lantern-reflector, Detachable. A. N. Morrison. No. 947,596; Jan. 25; Sp. p. 5784; Gaz. vol. 150; p. 961.
Lantern-regulator, Automatic. E. C. Ives. No. 967,925; Aug. 23; Sp. p. 4419; Gaz. vol. 157; p. 778.
Lantern, Signal-. A. H. Handlan, Jr. No. 962,758; June 28; Sp. p. 5325; Gaz. vol. 155; p. 930.
Lantern, Signal-. O. St. Germain. No. 965,960; Aug. 2; Sp. p. 234; Gaz. vol. 157; p. 39.
Lantern-slide carrier. T. Sharlow. No. 945,619; Jan. 4; Sp. p. 1305; Gaz. vol. 150; p. 204.
Lantern-slide carrier, Magic-. L. L. Welsh. No. 964,350; July 12; Sp. p. 2862; Gaz. vol. 156; p. 472.
Lantern-slide holder, Projection-. C. F. Dutton, Jr. No. 951,417; Mar. 8; Sp. p. 1952; Gaz. vol. 152; p. 339.
Lantern, Tubular. C. Bergener. No. 962,114; June 21; Sp. p. 3929; Gaz. vol. 155; p. 684.
Lantern, Tubular. C. F. Erb. No. 962,135; June 21; Sp. p. 3979; Gaz. vol. 155; p. 692.
Lantern, Tubular. J. H. Hill. No. 978,292; Dec. 13; Sp. p. 1902; Gaz. vol. 161; p. 333.
Lantern, Tubular. E. H. Minns. No. 978,328; Dec. 13; Sp. p. 1981; Gaz. vol. 161; p. 345.
Lantern, Vehicle-. F. E. Davis. No. 974,034; Oct. 25; Sp. p. 5497; Gaz. vol. 159; p. 953.
Lanterns, Globe-holding device for tubular. D. C. Kline. No. 963,299; July 5; Sp. p. 679; Gaz. vol. 156; p. 96.
Lanterns, Match-holder attachment for. W. C. Braun. No. 949,390; Feb. 15; Sp. p. 3398; Gaz. vol. 151; p. 593.
Lanterns, Slide and shutter operating device for magic. J. Oldfield and W. E. Nimz. No. 952,346; Mar. 15; Sp. p. 3799; Gaz. vol. 152; p. 680.
Lanterns, Spring-fastening for. C. L. Betts. No. 978,545; Dec. 13; Sp. p. 2435; Gaz. vol. 161; p. 419.
Lanterns, View-dissolver for magic. O. C. Currie. No. 958,370; May 17; Sp. p. 4306; Gaz. vol. 154; p. 703.
Lap-board. J. P. Roehm. No. 960,112; May 31; Sp. p. 7993; Gaz. vol. 154; p. 1343.
Lap-joint. M. R. Kester. No. 954,520; Apr. 12; Sp. p. 1761; Gaz. vol. 153; p. 316.

Lap-link. J. B. Menard. No. 951,538; Mar. 8; Sp. p. 2188; Gaz. vol. 152; p. 380.
Lap-robe. A. G. Frankenhoff. No. 958,617; May 17; Sp. p. 4790; Gaz. vol. 154; p. 787.
Lard-cutter. J. D. Leen. No. 954,444; Apr. 12; Sp. p. 1578; Gaz. vol. 153; p. 289.
Lard-cutter. J. and H. P. Harmison. No. 968,940; Aug. 30; Sp. p. 6614; Gaz. vol. 157; p. 1152.
Lard-extractor. C. H. Ritter. No. 971,408; Sept. 27; Sp. p. 4788; Gaz. vol. 158; p. 838.
Lard-press. E. Harman. No. 964,018; July 12; Sp. p. 2193; Gaz. vol. 156; p. 360.
Last. E. O. Krentler. No. 947,972; Feb. 1; Sp. p. 405; Gaz. vol. 151; p. 65.
Last. S. T. Hennessy. No. 948,093; Feb. 1; Sp. p. 659; Gaz. vol. 151; p. 107.
Last. H. Keil. No. 956,582; May 3; Sp. p. 161; Gaz. vol. 154; p. 28.
Last. R. Carl. No. 969,244; Sept. 6; Sp. p. 204; Gaz. vol. 158; p. 34.
Last. F. W. Millay. No. 975,708; Nov. 15; Sp. p. 3623; Gaz. vol. 160; p. 610.
Last, Block-. E. L. Goding. No. 956,576; May 3; Sp. p. 152; Gaz. vol. 154; p. 26.
Last, Divided. J. D. Winchester. No. 959,672; May 31; Sp. p. 7023; Gaz. vol. 154; p. 1193.
Last, Expansible foot-. J. E. Leavitt. No. 957,975; May 17; Sp. p. 3204; Gaz. vol. 154; p. 564.
Last, Folding. C. B. Kosters. No. 978,309; Dec. 13; Sp. p. 1935; Gaz. vol. 161; p. 338.
Last-jack. C. C. Cole. No. 962,747; June 28; Sp. p. 5305; Gaz. vol. 155; p. 926.
Last-jack. L. Hackett. No. 963,140; July 5; Sp. p. 288; Gaz. vol. 156; p. 40.
Last-lock. W. A. Krentler. No. 966,104; Aug. 2; Sp. p. 555; Gaz. vol. 157; p. 90.
Last, Locking hinged. A. E. Peckham. No. 960,578; June 7; Sp. p. 696; Gaz. vol. 155; p. 115.
Last, Shoe-. A. G. Legg. No. 946,235; Jan. 11; Sp. p. 2694; Gaz. vol. 150; p. 448.
Last, Shoe-. I. A. Cook. No. 965,565; July 26; Sp. p. 5568; Gaz. vol. 156; p. 947.
Last-support and last-unlocking device, Combined. G. G. Schelter. No. 949,160; Feb. 15; Sp. p. 2905; Gaz. vol. 151; p. 515.
Lasts, Forming. E. J. Prindle. No. 968,409; Aug. 23; Sp. p. 5475; Gaz. vol. 157; p. 943.
Lasts, Heel-seat extension for. J. A. Dow. No. 976,788; Nov. 22; Sp. p. 5952; Gaz. vol. 160; p. 1005.
Lasts, Jig for boring jack-holes in. W. H. Baynard. No. 948,284; Feb. 1; Sp. p. 1030; Gaz. vol. 151; p. 169.
Lasts, Latch for hinged. F. W. Kittlinger. No. 971,200; Sept. 27; Sp. p. 4393; Gaz. vol. 158; p. 771.
Lasting apparatus, Boot and shoe. E. Langenohl. No. 973,521; Oct. 25; Sp. p. 4426; Gaz. vol. 159; p. 773.
Lasting device, Auxiliary. T. G. Plant. No. 958,286; May 17; Sp. p. 4034; Gaz. vol. 154; p. 672.
Lasting-machine. T. H. Seely. No. 945,291; Jan. 4; Sp. p. 589; Gaz. vol. 150; p. 97.
Lasting-machine. E. A. Stiggins. No. 946,620; Jan. 18; Sp. p. 3597; Gaz. vol. 150; p. 605.
Lasting-machine. S. Snow. No. 946,708; Jan. 18; Sp. p. 3780; Gaz. vol. 150; p. 633.
Lasting-machine. J. Armbruster. No. 950,218; Feb. 22; Sp. p. 5181; Gaz. vol. 151; p. 909.
Lasting-machine. L. B. Stamm. No. 954,355; Apr. 5; Sp. p. 1398; Gaz. vol. 153; p. 232.
Lasting-machine. P. R. Glass. No. 957,949; May 17; Sp. p. 3093; Gaz. vol. 154; p. 553.
Lasting-machine. T. G. Plant. No. 958,280; May 17; Sp. p. 3982; Gaz. vol. 154; p. 670.
Lasting machine, Bed-. F. Holbrook. No. 957,883; May 17; Sp. p. 2932; Gaz. vol. 154; p. 531.
Lasting machine, Bed-. T. G. Plant. No. 958,291; May 17; Sp. p. 4052; Gaz. vol. 154; p. 674.
Lasting machine, Bed-. F. Holbrook. (Reissue.) No. 13,147; Aug. 23; Sp. p. 5707; Gaz. vol. 157; p. 984.
Lasting-machines, Holddown attachment for. E. F. Heffernan. No. 947,818; Feb. 1; Sp. p. 67; Gaz. vol. 151; p. 14.
Lasting-machines, Holddown for. N. C. Bohr. No. 958,083; May 17; Sp. p. 3576; Gaz. vol. 154; p. 603.
Lasting-machines, Pincer mechanism for. T. H. Seely. No. 958,017; May 17; Sp. p. 3322; Gaz. vol. 154; p. 579.
Lasting-machines, Pincer or gripper mechanism for. T. H. Seely. No. 958,187; May 17; Sp. p. 3783; Gaz. vol. 154; p. 639.
Latch. H. Hoffman. No. 947,488; Jan. 25; Sp. p. 5562; Gaz. vol. 150; p. 924.
Latch. C. D. Reeve and H. A. Hall. No. 949,843; Feb. 22; Sp. p. 4314; Gaz. vol. 151; p. 777.
Latch. D. W. Tower. No. 949,861; Feb. 22; Sp. p. 4381; Gaz. vol. 151; p. 784.
Latch. D. W. Tower. No. 949,862; Feb. 22; Sp. p. 4382; Gaz. vol. 151; p. 785.
Latch. A. Bock. No. 959,295; May 24; Sp. p. 6227; Gaz. vol. 154; p. 1041.
Latch. C. E. Lowe. No. 963,450; July 5; Sp. p. 979; Gaz. vol. 156; p. 147.
Latch. J. E. Terrell. No. 965,125; July 19; Sp. p. 4586; Gaz. vol. 156; p. 765.
Latch. W. R. Carson. No. 967,103; Aug. 9; Sp. p. 2740; Gaz. vol. 157; p. 449.
Latch. F. C. Altmann. No. 970,007; Sept. 13; Sp. p. 1872; Gaz. vol. 158; p. 319.
Latch. M. R. Stoddard. No. 970,661; Sept. 20; Sp. p. 3256; Gaz. vol. 158; p. 561.
Latch. A. Cline. No. 973,919; Oct. 25; Sp. p. 5258; Gaz. vol. 159; p. 912.
Latch. C. T. J. Giles. No. 974,566; Nov. 1; Sp. p. 1137; Gaz. vol. 160; p. 171.
Latch. J. S. Johnson. No. 975,361; Nov. 8; Sp. p. 2878; Gaz. vol. 160; p. 465.
Latch. P. Mathes. No. 976,197; Nov. 22; Sp. p. 4650; Gaz. vol. 160; p. 800.
Latch. F. T. Lippincott. No. 979,178; Dec. 20; Sp. p. 3838; Gaz. vol. 161; p. 664.
Latch and bolt mechanism, Combined. E. C. Belknap and E. H. Jackson. No. 976,773; Nov. 22; Sp. p. 5921; Gaz. vol. 160; p. 999.
Latch and catch for doors, Combined. C. M. Sexton. No. 977,137; Nov. 29; Sp. p. 6768; Gaz. vol. 160; p. 1151.
Latch and latch-connecting apparatus. H. G. Voight. No. 956,005; Apr. 26; Sp. p. 5015; Gaz. vol. 153; p. 886.
Latch and lock mechanism, Door. E. A. and C. C. Crewson. No. 978,275; Dec. 13; Sp. p. 1866; Gaz. vol. 161; p. 327.
Latch, Barn-door. J. Dunn. No. 956,054; Apr. 26; Sp. p. 5116; Gaz. vol. 153; p. 903.
Latch, Barn-door. C. Harrison. No. 956,086; Apr. 26; Sp. p. 5202; Gaz. vol. 153; p. 915.
Latch, Barn-door. A. Neuenschwander. No. 964,876; July 19; Sp. p. 4098; Gaz. vol. 156; p. 683.
Latch, Barn-door. A. Schnell. No. 978,658; Dec. 13; Sp. p. 2701; Gaz. vol. 161; p. 459.
Latch, Compound double automatic. F. C. Anderson. No. 950,468; Mar. 1; Sp. p. 1; Gaz. vol. 152; p. 3.
Latch construction, Night-. H. G. Voight. No. 953,075; Mar. 29; Sp. p. 5352; Gaz. vol. 152; p. 985.
Latch, Door-. F. E. Howard. No. 945,540; Jan. 4; Sp. p. 1151; Gaz. vol. 150; p. 178
Latch, Door-. G. Wettig. No. 948,119; Feb. 1; Sp. p. 704; Gaz. vol. 151; p. 115.
Latch, Door-. C. D. Smith. No. 949,405; Feb. 15; Sp. p. 3430; Gaz. vol. 151; p. 599
Latch, Door-. T. M. Pilarski. No. 952,277; Mar. 15; Sp. p. 3665; Gaz. vol. 152; p. 656.
Latch, Door-. H. W. Steege. No. 952,376; Mar. 15; Sp. p. 3851; Gaz. vol. 152; p. 689.
Latch, Door-. W. A. Mooney. No. 954,324; Apr. 5; Sp. p. 1340; Gaz. vol. 153; p. 221.
Latch, Door-. F. E. Bessler. No. 956,273; Apr. 26; Sp. p. 5615; Gaz. vol. 153; p. 979.
Latch, Door-. A. Neuenschwander. No. 960,381; June 7; Sp. p. 294; Gaz. vol. 155; p. 49.
Latch, Door-. A. M. Hoes. No. 964,255; July 12; Sp. p. 2666; Gaz. vol. 156; p. 439.
Latch, Door-. W. Schumacher. No. 970,651; Sept. 20; Sp. p. 3236; Gaz. vol. 158; p. 557.
Latch, Door-. E. S. Wheeler. No. 974,323; Nov. 1; Sp. p. 568; Gaz. vol. 160; p. 83.
Latch, End-gate. J. McCullah. No. 966,349; Aug. 2; Sp. p. 1048; Gaz. vol. 157; p. 168.
Latch for cut-out boxes. T. Q. Andrazyk. No. 947,404; Jan. 25; Sp. p. 5349; Gaz. vol. 150; p. 896.
Latch for door-hangers. M. Cossey. No. 949,221; Feb. 15; Sp. p. 3009; Gaz. vol. 151; p. 534.
Latch for doors, &c., Self-tightening twin. R. E. Jones. No. 973,049; Oct. 18; Sp. p. 3399; Gaz. vol. 159; p.588.
Latch for end-gates of mining-cars. I. K. Beaver. No. 958,075; May 17; Sp. p. 3563; Gaz. vol. 154; p. 600.
Latch, Gate-. G. S. Mitchell. No. 946,388; Jan. 11; Sp. p. 3117; Gaz. vol. 150; p. 501.
Latch, Gate-. J. N. Weller. No. 950,063; Feb. 22; Sp. p. 4863; Gaz. vol. 151; p. 855.
Latch, Gate-. A. W. Sprague and T. E. Mulroyan. No. 950,307; Feb. 22; Sp. p. 5359; Gaz. vol. 151; p. 940.
Latch, Gate-. W. J. Fuston. No. 951,109; Mar. 8; Sp. p. 1310; Gaz. vol. 152; p. 240.
Latch, Gate-. O. B. Chambers. No. 952,029; Mar. 15; Sp. p. 3192; Gaz. vol. 152; p. 574.
Latch, Gate-. L. Cosgrove. No. 953,899; Apr. 5; Sp. p. 429; Gaz. vol. 153; p. 78.
Latch, Gate-. J. B. Barnwell No. 960,777; June 7; Sp. p. 1091; Gaz. vol. 155; p. 183.
Latch, Gate-. H. R. Elliott. No. 960,859; June 7; Sp. p. 1248; Gaz. vol. 155; p. 209.
Latch, Gate-. H. R. Elliott. No. 961,691; June 14; Sp. p. 2987; Gaz. vol. 155; p. 518.
Latch, Gate-. H. B. Crowell. No. 963,997; July 12; Sp. p. 2156; Gaz. vol. 156; p. 352.
Latch, Gate-. C. C. Shoff. No. 965,238; July 26; Sp. p. 4818; Gaz. vol. 156; p. 833.
Latch, Gate-. J. A. Reed. No. 966,859; Aug. 9; Sp. p. 2227; Gaz. vol. 157; p. 366.
Latch, Gate or door. J. Carroll. No. 978,558; Dec. 13; Sp. p. 2483; Gaz. vol. 161; p. 424.
Latch mechanism for emergency-doors. A. Arens and E. L. Teich. No. 958,353; May 17; Sp. p. 4278; Gaz. vol. 154; p. 698.

Alphabetical list of inventions—Continued.

Latch mechanism for split stocks and dies. R. E. Leach. No. 958,511; May 17; Sp. p. 4583; Gaz. vol. 154; p. 752.
Latch, Pivoted. W. C. Day. No. 978,857; Dec. 20; Sp. p. 3081; Gaz. vol. 161; p. 548.
Latch, Refrigerator-. F. L. Ellsworth. No. 968,334; Aug. 23; Sp. p. 5332; Gaz. vol. 157; p. 918.
Latch, Rim-. P. Seisler. No. 963,012; June 28; Sp. p. 5805; Gaz. vol. 155; p. 1016.
Latch, Sliding-door. D. A. Anderson. No. 961,197; June 14; Sp. p. 1938; Gaz. vol. 155; p. 350.
Lath, Metallic. G. W. Pyle. No. 966,119; Aug. 2; Sp. p. 579; Gaz. vol. 157; p. 95.
Lathing. A. P. White. No. 960,751; June 7; Sp. p. 1033; Gaz. vol. 155; p. 174.
Lathing and concrete-reinforcing structure, Metallic. H. E. White. No. 945,656; Jan. 4; Sp. p. 1396; Gaz. vol. 150; p. 217.
Lathe. G. A. Steinle. No. 946,989; Jan. 18; Sp. p. 4430; Gaz. vol. 150; p. 730.
Lathe. Z. B. Coes. No. 948,467; Feb. 8; Sp. p. 1436; Gaz. vol. 151; p. 257.
Lathe. A. H. Smith and R. Rigby. No. 952,149; Mar. 15; Sp. p. 3410; Gaz. vol. 152; p. 614.
Lathe. W. W. Shonk and J. A. Hutchinson. No. 952,474; Mar. 22; Sp. p. 4068; Gaz. vol. 152; p. 752.
Lathe. H. B. Greig. No. 958,631; May 17; Sp. p. 4815; Gaz. vol. 154; p. 790.
Lathe. J. E. Key. No. 967,201; Aug. 16; Sp. p. 2950; Gaz. vol. 157; p. 510.
Lathe. G. O. Gridley. No. 971,370; Sept. 27; Sp. p. 4724; Gaz. vol. 158; p. 825.
Lathe. F. Rowe and J. W. Rappenglueck. No. 979,034; Dec. 20; Sp. p. 3494; Gaz. vol. 161; p. 611.
Lathe and other tool holder for cutting, shaping, and screwing purposes. H. S. Land. No. 958,654; May 17; Sp. p. 4857; Gaz. vol. 154; p. 798.
Lathe attachment. W. C. Riehs. No. 972,720; Oct. 11; Sp. p. 2637; Gaz. vol. 159; p. 448.
Lathe attachment, Jeweler's-. I. Greenwald and I. Harrison. No. 965,105; July 19; Sp. p. 4553; Gaz. vol. 156; p. 759.
Lathe, Automatic. J. P. Brophy. No. 948,680; Feb. 8; Sp. p. 1910; Gaz. vol. 151; p. 328.
Lathe, Car-wheel. A. C. Stebbins and W. T. Sears. No. 952,084; Mar. 15; Sp. p. 3285; Gaz. vol. 152; p. 592.
Lathe, Car-wheel. W. T. Sears. No. 967,573; Aug. 16; Sp. p. 3705; Gaz. vol. 157; p. 638.
Lathe-center. W. J. McIntyre. No. 960,678; June 7; Sp. p. 895; Gaz. vol. 155; p. 148.
Lathe-center grinder. P. Gommel. No. 966,826; Aug. 9; Sp. p. 2165; Gaz. vol. 157; p. 356.
Lathe, Copying-. E. Bostock. No. 961,580; June 14; Sp. p. 2767; Gaz. vol. 155; p. 480.
Lathe-dog. W. L. Reid. No. 955,688; Apr. 19; Sp. p. 4323; Gaz. vol. 153; p. 747.
Lathe-dog. J. W. Fawcett. No. 958,382; May 17; Sp. p. 4332; Gaz. vol. 154; p. 708.
Lathe-dog. J. M. Palmer. No. 961,155; June 14; Sp. p. 1844; Gaz. vol. 155; p. 334.
Lathe-gearing. A. V. Carroll. No. 975,748; Nov. 15; Sp. p. 3704; Gaz. vol. 160; p. 625.
Lathe-head clamp. A. Wood. No. 961,330; June 14; Sp. p. 2254; Gaz. vol. 155; p. 397.
Lathe, Last-. M. H. Lyons. No. 954,447; Apr. 12; Sp. p. 1584; Gaz. vol. 153; p. 290.
Lathe, Last-. H. F. Loewer. No. 968,672; Aug. 30; Sp. p. 6048; Gaz. vol. 157; p. 1062.
Lathe or turning-machine. A. Thorsby. No. 973,587; Oct. 25; Sp. p. 4557; Gaz. vol. 159; p. 795.
Lathe, Portable. J. W. Flemming. No. 952,564; Mar. 22; Sp. p. 4267; Gaz. vol. 152; p. 782.
Lathe, Portable hand-driven turning-. W. D. Verschoyle, No. 968,295; Aug. 23; Sp. p. 5252; Gaz. vol. 157; p. 904.
Lathe, Semi-automatic turret-. M. H. Blancke. No. 962,000; June 21; Sp. p. 3663; Gaz. vol. 155; p. 644.
Lathe, Stoneworking-. W. F. Meyers. No. 957,978; May 17; Sp. p. 3210; Gaz. vol. 154; p. 565.
Lathe tool-holder. H. Nielson. No. 966,585; Aug. 9; Sp. p. 1620; Gaz. vol. 157; p. 276.
Lathe tool-holder. F. D. Van Norman. No. 979,903; Dec. 27; Sp. p. 5388; Gaz. vol. 161; p. 931.
Lathe tool-post. H. Haldy. No. 970,219; Sept. 13; Sp. p. 2320; Gaz. vol. 158; p. 390.
Lathe tool-support. C. L. Libby. No. 957,783; May 10; Sp. p. 2729; Gaz. vol. 154; p. 467.
Lathe tool-support, Turret-. B. M. W. Hanson. No. 968,052; Aug. 23; Sp. p. 4698; Gaz. vol. 157; p. 821.
Lathe tool-supporting attachment, Turret-. C. L. Goodrich. No. 968,045; Aug. 23; Sp. p. 4684; Gaz. vol. 157; p. 819.
Lathe, Turret-. F. K. Hendrickson. No. 945,947; Jan. 11; Sp. p. 2097; Gaz. vol. 150; p. 350.
Lathe, Turret-. B. M. W. Hanson. No. 971,886; Oct. 4; Sp. p. 796; Gaz. vol. 159; p. 139.
Lathe-turret. F. S. Thompson. No. 946,924; Jan. 18; Sp. p. 4313; Gaz. vol. 150; p. 708.
Lathe turret-feed stop. C. L. Libby. No. 968,374; Aug. 23; Sp. p. 5402; Gaz. vol. 157; p. 932.
Lathe, Universal. O. Tyberg. No. 972,297; Oct. 11; Sp. p. 1710; Gaz. vol. 159; p. 300.
Lathes and like machines, Adjustable collet for. C. F. Schultis. No. 952,364; Mar. 15; Sp. p. 3833; Gaz. vol. 152; p. 686.
Lathes, Back-rest for. N. P. Shankwiler. No. 978,663; Dec. 13; Sp. p. 2709; Gaz. vol. 161; p. 461.
Lathes, Carriage-guide for. O. Schaerer. No. 972,574; Oct. 11; Sp. p. 2325; Gaz. vol. 159; p. 398.
Lathes, Gear-cutting attachment for. J. M. Campbell. Apr. 12; Sp. p. 1610; Gaz. vol. 153; p. 294.
Lathes, Gear-cutting attachment for. J. M. Campbell. No. 955,498; Apr. 19; Sp. p. 3888; Gaz. vol. 153; p. 683.
Lathes, Independent stop mechanism for turret-. J. G. Oliver. No. 976,904; Nov. 29; Sp. p. 6209; Gaz. vol. 160; p. 1069.
Lathes, milling-machines, and the like, Boring-head for. A. Muehlmatt. No. 973,542; Oct. 25; Sp. p. 4468; Gaz. vol. 159; p. 780.
Lathes, Relieving attachment for. B. M. W. Hanson. No. 955,643; Apr. 19; Sp. p. 4222; Gaz. vol. 153; p. 732.
Lathes, Relieving attachment for. E. W. Blum, W. T. S. Johnson, and F. Kropf. No. 971,243; Sept. 27; Sp. p. 4486; Gaz. vol. 158; p. 785.
Lathes, Self-clearing segment for. J. P. Reneker. No. 964,316; July 12; Sp. p. 2790; Gaz. vol. 156; p. 461.
Lathes, Tail-stock for wood-turning. A. V. Smith. No. 966,253; Aug. 2; Sp. p. 878; Gaz. vol. 157; p. 139.
Launching apparatus. C. Hunt. No. 953,694; Apr. 5; Sp. p. 31; Gaz. vol. 153; p. 8.
Laundry apparatus. R. C. Merritt. No. 975,706; Nov. 15; Sp. p. 3620; Gaz. vol. 160; p. 610.
Laundry-iron. J. R. Adams. No. 952,295; Mar. 15; Sp. p. 3706; Gaz. vol. 152; p. 663.
Laundry-iron. E. R. Smith. No. 969,991; Sept. 13; Sp. p. 1832; Gaz. vol. 158; p. 312.
Laundry-iron, Electric. E. H. Richardson. No. 946,070; Jan. 11; Sp. p. 2342; Gaz. vol. 150; p. 390.
Laundry-iron, Electric. E. H. Richardson. No. 956,174; Apr. 26; Sp. p. 5391; Gaz. vol. 153; p. 946.
Lavatories, Manufacture of earthenware. R. E. Crane. No. 961,214; June 14; Sp. p. 1977; Gaz. vol. 155; p. 357.
Lavatory. E. G. Watrous. No. 951,161; Mar. 8; Sp. p. 1412; Gaz. vol. 152; p. 256.
Lavatory. L. E. Kenney. No. 954,680; Apr. 12; Sp. p. 2114; Gaz. vol. 153; p. 371.
Lavatory. J. H. Danver. No. 962,892; June 28; Sp. p. 5587; Gaz. vol. 155; p. 977.
Lavatory apparatus, Valve mechanism for. J. Allingham. No. 955,740; Apr. 19; Sp. p. 4432; Gaz. vol. 153; p. 765.
Lavatory-fixture. E. G. Watrous. No. 975,663; Nov. 15; Sp. p. 3541; Gaz. vol. 160; p. 597.
Lawn and hedge trimmer. G. G. Frazer. No. 974,653; Nov. 1; Sp. p. 1310; Gaz. vol. 160; p. 203.
Lawn-cleaner rake, Rotary. C. H. Mosher. No. 948,820; Feb. 8; Sp. p. 2216; Gaz. vol. 151; p. 375.
Lawn-edger. F. J. Randall. No. 951,547; Mar. 8; Sp. p. 2210; Gaz. vol. 152; p. 383.
Lawn-edger, Gaged. J. C. Lindsey. No. 954,747; Apr. 12; Sp. p. 2283; Gaz. vol. 153; p. 396.
Lawn-edging machine. W. E. Graham. No. 954,792; Apr. 12; Sp. p. 2378; Gaz. vol. 153; p. 411.
Lawn-rake. A. J. Platt. No. 957,900; May 17; Sp. p. 2972; Gaz. vol. 154; p. 537.
Lawn-sprinkler. E. P. Krider. No. 945,961; Jan. 11; Sp. p. 2132; Gaz. vol. 150; p. 354.
Lawn-sprinkler. C. A. Twiggs. No. 946,888; Jan. 18; Sp. p. 4231; Gaz. vol. 150; p. 696.
Lawn-sprinkler. G. H. Choate. No. 949,520; Feb. 15; Sp. p. 3645; Gaz. vol. 151; p. 635.
Lawn-sprinkler. J. B. Steele. No. 959,270; May 24; Sp. p. 6183; Gaz. vol. 154; p. 1032.
Lawn-sprinkler. F. E. Opitz. No. 961,251; June 14; Sp. p. 2045; Gaz. vol. 155; p. 369.
Lawn-sprinkler. A. F. Saltlamachia. No. 963,944; July 12; Sp. p. 2025; Gaz. vol. 156; p. 334.
Lawn-sprinkler. H. L. Dietcher. No. 974,954; Nov. 8; Sp. p. 1994; Gaz. vol. 160; p. 328.
Lawn-sprinkler, Automatic. M. S. Lantzer. No. 968,487; Aug. 23; Sp. p. 5624; Gaz. vol. 157; p. 971.
Lawn-trimmer. A. C. Warner. No. 953,876; Apr. 5; Sp. p. 385; Gaz. vol. 153; p. 70.
Lawn-trimmer. O. H. Watkins. No. 956,654; May 3; Sp. p. 322; Gaz. vol. 154; p. 52.
Lawn-trimmer. F. C. Reynolds. No. 964,882; July 19; Sp. p. 4116; Gaz. vol. 156; p. 685.
Lawn-trimming implement. W. S. S. Fleming. No. 971,000; Sept. 20; Sp. p. 3951; Gaz. vol. 158; p. 675.
Lawn-trimming shovel. J. Reichert. No. 962,785; June 28; Sp. p. 5385; Gaz. vol. 155; p. 940.
Lay-motion. O. Eilhauer. No. 972,835; Oct. 18; Sp. p. 2878; Gaz. vol. 159; p. 512.
Laying and leveling machine. T. G. Plant. No. 958,283; May 17; Sp. p. 4015; Gaz. vol. 154; p. 671.
Leaching-vat. W. H. Teas. No. 951,206; Mar. 8; Sp. p. 1496; Gaz. vol. 152; p. 270.
Lead, Apparatus for manufacturing sublimed white. L. S. Hughes. No. 975,768; Nov. 15; Sp. p. 3745; Gaz. vol. 160; p. 631.
Lead joint-runner. W. Vanderman. No. 960,604; June 7; Sp. p. 742; Gaz. vol. 155; p. 122.

Lead L's by spinning, Means employed in closing the ends of. F. N. Du Bois. No. 978,863; Dec. 20; Sp. p. 3099; Gaz. vol. 161; p. 550.
Lead-making apparatus, White-. F. H. Ludington, J. P. Marshall, and L. C. Besson. No. 978,122; Dec. 6; Sp. p. 1509; Gaz. vol. 161; p. 243.
Lead, Making basic sulfate of. A. Hileman. No. 969,474; Sept. 6; Sp. p. 680; Gaz. vol. 158; p. 108.
Lead, Making filamentous. C. Ellis. No. 953,196; Mar. 29; Sp. p. 5634; Gaz. vol. 152; p. 1024.
Lead, Manufacturing sublimed white. L. S. Hughes. No. 975,867; Nov. 15; Sp. p. 3946; Gaz. vol. 160; p. 665.
Lead pigment, Manufacture of white sulfate-of-. J. B. Hannay and S. B. Wilson. No. 955,396; Apr. 19; Sp. p. 3685; Gaz. vol. 153; p. 648.
Lead refining and desilverizing apparatus. G. P. Hulst. No. 965,464; July 26; Sp. p. 5325; Gaz. vol. 156; p. 910.
Lead sulfate from impure sulfate, Preparing pure. A. S. Ramage. No. 950,677; Mar. 1; Sp. p. 453; Gaz. vol. 152; p. 74.
Leaf and rubbish gathering machine. J. F. Crowe. No. 969,138; Aug. 30; Sp. p. 7017; Gaz. vol. 157; p. 1220.
Leaf holder, Loose-. J. R. Haldeman. No. 955,330; Apr. 19; Sp. p. 3534; Gaz. vol. 153; p. 625.
Leaf holder, Loose-. J. Willy. No. 961,923; June 21; Sp. p. 3501; Gaz. vol. 155; p. 619.
Leaf-support. T. Haus r. No. 971,747; Oct. 4; Sp. p. 500; Gaz. vol. 159; p. 87.
Leaf-support. T. Hauser. No. 971,840; Oct. 4; Sp. p. 690; Gaz. vol. 159; p. 121.
Leaf-support. T. Hauser. No. 975,766; Nov. 15; Sp. p. 3742; Gaz. vol. 160; p. 630.
Leaf-turner. J. and E. Dolar and F. J. Vysa. No. 964,093; July 12; Sp. p. 2355; Gaz. vol. 156; p. 386.
Leaf-turner. S. E. Berliner. No. 968,733; Aug. 30; Sp. p. 6198; Gaz. vol. 157; p. 1083.
Leakage-reducing device. F. Samuelson. No. 967,247; Aug. 16; Sp. p. 3041; Gaz. vol. 157; p. 526.
Leaks, Composition for stopping. G. A. La Vallee. No. 953,626; Mar. 29; Sp. p. 6553; Gaz. vol. 152; p. 1170.
Leather and like material, Method of and machine for treating edges of. S. Keats. No. 946,844; Jan. 18; Sp. p. 4113; Gaz. vol. 150; p. 681.
Leather and manufacturing the same, Reinforced. E. Weinheim. No. 965,261; July 26; Sp. p. 4870; Gaz. vol. 156; p. 841.
Leather and product thereof, Coloring. M. M. Gregg. No. 970,326; Sept. 13; Sp. p. 2526; Gaz. vol. 158; p. 426.
Leather, Artificial. J. J. C. Smith. No. 948,383; Feb. 8; Sp. p. 1275; Gaz. vol. 151; p. 229.
Leather blanks, Apparatus for uniting. J. A. Millican. No. 974,987; Nov. 8; Sp. p. 2075; Gaz. vol. 160; p. 339.
Leather-board and preparing the same, Waterproof. E. S. Buffum and W. W. Carter. No. 965,152; July 26; Sp. p. 4656; Gaz. vol. 156; p. 806.
Leather-board, Manufacturing substitutes for. A. J. Ostberg. No. 976,827; Nov. 22; Sp. p. 6022; Gaz. vol. 160; p. 1017.
Leather-boarding device. A. M. Marx. No. 962,157; June 21; Sp. p. 4032; Gaz. vol. 155; p. 699.
Leather cup. I. H. Venn. No. 956,612; May 3; Sp. p. 227; Gaz. vol. 154; p. 39.
Leather-cutting machine. J. Schwaber. No. 964,061; July 12; Sp. p. 2279; Gaz. vol. 156; p. 375.
Leather-dressing-machine roll. W. F. Lucke and J. E. Blake. No. 973,675; Oct. 25; Sp. p. 4759; Gaz. vol. 159; p. 827.
Leather-edging machine. F. F. Cumms. No. 947,054; Jan. 18; Sp. p. 4548; Gaz. vol. 150; p. 750.
Leather-finishing machine, Variable-speed-rolls. W. R. Smith. No. 953,980; Apr. 5; Sp. p. 587; Gaz. vol. 153; p. 105.
Leather-folding machine. R. H. Lufkin. No. 962,034; June 21; Sp. p. 3731; Gaz. vol. 155; p. 655.
Leather machine, Composition-. F. Kukkuck. No. 957,219; May 10; Sp. p. 1554; Gaz. vol. 154; p. 275.
Leather, Machine for inserting fasteners in. T. G. Plant. No. 946,825; Jan. 18; Sp. p. 4062; Gaz. vol. 150; p. 674.
Leather, Manufacturing. J. T. Smith. No. 967,986; Aug. 23; Sp. p. 4551; Gaz. vol. 157; p. 799.
Leather, Manufacturing. J. T. Smith. No. 969,570; Sept. 6; Sp. p. 898; Gaz. vol. 158; p. 142.
Leather or the like, Machine for cutting, skiving, and splitting. P. Heldmann. No. 955,266; Apr. 19; Sp. p. 3390; Gaz. vol. 153; p. 604.
Leather or the like, Machine for sorting or grading pieces of. P. Heldmann. No. 968,053; Aug. 23; Sp. p. 4700; Gaz. vol. 157; p. 821.
Leather pieces edgewise and otherwise operating upon the edges of material in sheet form, Machine for joining. L. G. Weston. No. 960,471; June 7; Sp. p. 456; Gaz. vol. 155; p. 77.
Leather, Polishing-machine for use in repairing cracks in patent-. V. P. Buck. No. 973,912; Oct. 25; Sp. p. 5247; Gaz. vol. 159; p. 909.
Leather-punching machine. C. P. Stanbon. No. 955,711; Apr. 19; Sp. p. 4372; Gaz. vol. 153; p. 755.
Leather-rounding device. D. Driscoll. No. 950,096; Feb. 22; Sp. p. 4925; Gaz. vol. 151; p. 867.
Leather-skiving machine. C. A. Hirth. No. 958,124; May 17; Sp. p. 3655; Gaz. vol. 154; p. 616.
Leather-skiving machine. J. R. Scott. No. 961,736; June 14; Sp. p. 3080; Gaz. vol. 155; p. 533.
Leather-skiving machine. J. R. Scott. No. 969,987; Sept. 13; Sp. p. 1823; Gaz. vol. 158; p. 310.
Leather-skiving-machine pressure device. C. H. Bayley and B. F. Mayo. No. 975,495; Nov. 15; Sp. p. 3156; Gaz. vol. 160; p. 538.
Leather-splitting machine. J. Busfield. No. 946,819; Jan. 18; Sp. p. 4050; Gaz. vol. 150; p. 671.
Leather-strip-cutting machine. P. Medved. No. 973,448; Oct. 18; Sp. p. 4260; Gaz. vol. 159; p. 726.
Leather stripping and trimming machine. P. Stein. No. 979,219; Dec. 20; Sp. p. 3928; Gaz. vol. 161; p. 678.
Leather-surfacing machine. C. A. Lombard. No. 963,303; July 5; Sp. p. 684; Gaz. vol. 156; p. 97.
Leather-treating machine. W. P. Boak. No. 950,430; Feb. 22; Sp. p. 5588; Gaz. vol. 151; p. 979.
Leather-trimming machine. S. Grossman. No. 954,955; Apr. 12; Sp. p. 2757; Gaz. vol. 153; p. 467.
Leather with india-rubber, Treatment of. A. McLennan. No. 970,734; Sept. 20; Sp. p. 3417; Gaz. vol. 158; p. 585.
Leather-working die. R. C. Schemmel. No. 958,324; May 17; Sp. p. 4216; Gaz. vol. 154; p. 688.
Leather-working machine. G. McKeen. No. 975,628; Nov. 15; Sp. p. 3445; Gaz. vol. 160; p. 585.
Leather-working-machine table. E. Y. B. Engelman. No. 978,120; Dec. 6; Sp. p. 1503; Gaz. vol. 161; p. 242.
Leather-working machinery, Spraying device for. J. Elderkin and F. Rose. No. 971,365; Sept. 27; Sp. p. 4714; Gaz. vol. 158; p. 824.
Leather-working tool. C. F. Punsky. No. 969,806; Sept. 13; Sp. p. 1433; Gaz. vol. 158; p. 249.
Leather-wringing machine. R. F. Whitney. No. 976,968; Nov. 29; Sp. p. 6398; Gaz. vol. 160; p. 1093.
Leathers, Machine for forming cup-. W. F. Smith. No. 945,479; Jan. 4; Sp. p. 1011; Gaz. vol. 150; p. 158.
Lecturer's reading-box. F. W. Prince and G. E. Biddell. No. 963,939; July 12; Sp. p. 2019; Gaz. vol. 156; p. 332.
Ledger-locking device. T. A. Glendinning. No. 954,791; Apr. 12; Sp. p. 2376; Gaz. vol. 153; p. 410.
Ledger, Loose-leaf. C. A. Hofstetter. No. 945,845; Jan. 11; Sp. p. 1879; Gaz. vol. 150; p. 312.
Ledger, Loose-leaf. C. H. Gardner. No. 962,895; June 28; Sp. p. 5590; Gaz. vol. 155; p. 978.
Ledger, Self-indexing. H. J. Achter. No. 949,514; Feb. 15; Sp. p. 3635; Gaz. vol. 151; p. 633.
Ledger with visible index. E. Kellner. No. 955,807; Apr. 19; Sp. p. 4556; Gaz. vol. 153; p. 787.
Ledgers, Name-leaf for. T. E. Smith. No. 968,204; Aug. 23; Sp. p. 5054; Gaz. vol. 157; p. 871.
Leg, Artificial. J. A. Long. No. 966,225; Aug. 2; Sp. p. 820; Gaz. vol. 157; p. 130.
Leg, Artificial. H. T. Odgers. No. 975,888; Nov. 15; Sp. p. 3986; Gaz. vol. 160; p. 672.
Leg joint, Artificial-. D. W. Price. No. 959,881; May 31; Sp. p. 7476; Gaz. vol. 154; p. 1263.
Leg-rest joint. E. Pickart. No. 979,091; Dec. 20; Sp. p. 3610; Gaz. vol. 161; p. 630.
Leg-spreader. C. Freund. No. 949,118; Feb. 15; Sp. p. 2828; Gaz. vol. 151; p. 499.
Legging. M. Rosenwasser. No. 945,420; Jan. 4; Sp. p. 900; Gaz. vol. 150; p. 140.
Legging. N. Clincostram. No. 963,032; July 5; Sp. p. 9; Gaz. vol. 156; p. 4.
Legging. G. Ciociola. No. 966,525; Aug. 9; Sp. p. 1486; Gaz. vol. 157; p. 255.
Legging. T. W. Austin. No. 974,623; Nov. 1; Sp. p. 1247; Gaz. vol. 160; p. 191.
Legging. M. Rosenwasser. No. 979,702; Dec. 27; Sp. p. 4924; Gaz. vol. 161; p. 863.
Lemon-server. E. F. Symonds and R. J. Goodnow. No. 971,573; Oct. 4; Sp. p. 135; Gaz. vol. 159; p. 25.
Lemon-squeezer. P. Filler. No. 946,668; Jan. 18; Sp. p. 3706; Gaz. vol. 150; p. 620.
Lemon-squeezer. L. S. Hackney. No. 968,345; Aug. 23; Sp. p. 5350; Gaz. vol. 157; p. 922.
Lens. H. P. Alexander. No. 954,772; Apr. 12; Sp. p. 2338; Gaz. vol. 153; p. 404.
Lens attachment. F. U. Williams. No. 953,879; Apr. 5; Sp. p. 389; Gaz. vol. 153; p. 71.
Lens-drilling machine. C. W. Howland. No. 979,007; Dec. 20; Sp. p. 3432; Gaz. vol. 161; p. 603.
Lens-fastening for nose-glasses. G. S. Row. No. 973,215; Oct. 18; Sp. p. 3782; Gaz. vol. 159; p. 646.
Lens-grinder. G. H. Flad. No. 949,760; Feb. 22; Sp. p. 4141; Gaz. vol. 151; p. 749.
Lens grinding and polishing machine. K. Liegandt. No. 968,246; Aug. 23; Sp. p. 5150; Gaz. vol. 157; p. 887.
Lens-grinding apparatus. H. Schmidt. No. 968,698; Aug. 30; Sp. p. 6133; Gaz. vol. 157; p. 1070.
Lens-grinding apparatus. E. A. Hammett. No. 974,880; Nov. 8; Sp. p. 1814; Gaz. vol. 160; p. 301.
Lens-grinding machine. M. W. Brinkmann. No. 966,730; Aug. 9; Sp. p. 1918; Gaz. vol. 157; p. 324.
Lens-grinding machine. R. F. Williams. No. 970,674; Sept. 20; Sp. p. 3284; Gaz. vol. 158; p. 565.
Lens-grinding machine. J. A. Lincoln. No. 978,764; Dec. 13; Sp. p. 2911; Gaz. vol. 161; p. 493.
Lens-grinding machine. W. J. Slavin. No. 980,133; Dec. 27; Sp. p. 5899; Gaz. vol. 161; p. 1007.

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Lens-holder. J. M. Chappel. No. 949,413; Feb. 15; Sp. p. 3447; Gaz. vol. 151; p. 601.
Lens-mount. H. E. Richmond. No. 959,169; May 24; Sp. p. 5983; Gaz. vol. 154; p. 1000.
Lens-mount. H. E. Richmond. No. 959,387; May 24; Sp. p. 6407; Gaz. vol. 154; p. 1071.
Lens-mounting. D. F. Green. No. 954,513; Apr. 12; Sp. p. 1748; Gaz. vol. 153; p. 314.
Lens-shaping machine. J. E. Germain and G. A. Ossart. No. 947,774; Jan. 25; Sp. p. 6111; Gaz. vol. 150; p. 1019.
Lenses and other spherical surfaces, Grinding bifocal. M. Bentzon and A. H. Emerson. No. 946,571; Jan. 18; Sp. p. 3493; Gaz. vol. 150; p. 588.
Lenses, Grinding. H. Schmidt. No. 968,699; Aug. 30; Sp. p. 6135; Gaz. vol. 157; p. 1071.
Lenses, Instrument for measuring and determining the axes of. O. Moe. No. 965,211; July 26; Sp. p. 4769; Gaz. vol. 156; p. 824.
Letter and attachment, Composite. E. S. De Puy. No. 947,377; Jan. 25; Sp. p. 5286; Gaz. vol. 150; p. 888.
Letter and design, Sectional. J. P. Reily and J. B. Noyes. No. 972,406; Oct. 11; Sp. p. 1930; Gaz. vol. 159; p. 339.
Letter-box. L. Ehrlich. No. 948,815; Feb. 8; Sp. p. 2201; Gaz. vol. 151; p. 373.
Letter-box. W. B. Benham. No. 967,709; Aug. 16; Sp. p. 3971; Gaz. vol. 157; p. 681.
Letter-case label for postal cars. H. C. Heffner. No. 953,907; Apr. 5; Sp. p. 442; Gaz. vol. 153; p. 81.
Letter, Electric-sign. F. H. Lansdell. No. 972,877; Oct. 18; Sp. p. 2980; Gaz. vol. 159; p. 528.
Letter-sheet and envelop, Combined. L. R. Swett. No. 946,830; Jan. 18; Sp. p. 4081; Gaz. vol. 150; p. 676.
Letter-sheet and envelop, Combined. E. Maren-Covick. No. 957,172; May 3; Sp. p. 1431; Gaz. vol. 154; p. 229.
Letter, Sign-. H. W. Piccot. No. 953,101; Mar. 29; Sp. p. 5423; Gaz. vol. 152; p. 993.
Letter, Sign-. H. C. Kretz. No. 979,969; Dec. 27; Sp. p. 5509; Gaz. vol. 161; p. 952.
Letter-slot attachment. J. Popenhagen. No. 965,225; July 26; Sp. p. 4796; Gaz. vol. 156; p. 829.
Letter-slot attachment. J. Popenhagen. No. 980,125; Dec. 27; Sp. p. 5880; Gaz. vol. 161; p. 1005.
Lettering device. W. M. Black and A. P. Morris. No. 946,197; Jan. 11; Sp. p. 2611; Gaz. vol. 150; p. 434.
Lettering device, Mechanical. J. E. Robbins. No. 967,561; Aug. 16; Sp. p. 3684; Gaz. vol. 157; p. 633.
Leuco derivative of diethylgallocyanin. W. Lommel. No. 961,361; June 14; Sp. p. 2311; Gaz. vol. 155; p. 408.
Leuco diethylgallocyanin. W. Lommel. No. 962,712; June 28; Sp. p. 5234; Gaz. vol. 155; p. 914.
Levee-builder. D. J. La Bauve. No. 946,375; Jan. 11; Sp. p. 3094; Gaz. vol. 150; p. 497.
Level. J. Schmid. No. 956,830; May 3; Sp. p. 722; Gaz. vol. 154; p. 114.
Level. C. J. Andersen. No. 958,349; May 17; Sp. p. 4262; Gaz. vol. 154; p. 696.
Level. J. H. Kouns. No. 959,759; May 31; Sp. p. 7195; Gaz. vol. 154; p. 1221.
Level. J. L. Russell. No. 965,659; July 26; Sp. p. 5759; Gaz. vol. 156; p. 980.
Level. L. C. Tryon. No. 967,587; Aug. 16; Sp. p. 3738; Gaz. vol. 157; p. 642.
Level. H. O. Earman. No. 970,897; Sept. 20; Sp. p. 3766; Gaz. vol. 158; p. 643.
Level. D. E. Reilly. No. 971,792; Oct. 4; Sp. p. 590; Gaz. vol. 159; p. 103.
Level. A. D. Hunsicker and W. A. Denton. No. 973,437; Oct. 18; Sp. p. 4239; Gaz. vol. 159; p. 722.
Level. H. J. Carrigan. No. 975,830; Nov. 15; Sp. p. 3862; Gaz. vol. 160; p. 652.
Level, Adjustable. H. A. E. Coy. No. 971,360; Sept. 27; Sp. p. 4708; Gaz. vol. 158; p. 822.
Level and angle-finder, Gravity. G. H. Sprenkle. No. 964,066; July 12; Sp. p. 2287; Gaz. vol. 156; p. 377.
Level and folding rule, Combination spirit-. R. G. Pike. No. 973,458; Oct. 18; Sp. p. 4281; Gaz. vol. 159; p. 729.
Level and gradient instrument, Combined. J. J. Bunting. No. 958,088; May 17; Sp. p. 3586; Gaz. vol. 154; p. 604.
Level and plumb, Combination. M. A. Wagner. No. 963,189; July 5; Sp. p. 411; Gaz. vol. 156; p. 58.
Level and square, Combination. G. W. Wolcott. No. 974,007; Oct. 25; Sp. p. 5444; Gaz. vol. 159; p. 943.
Level attachment for drills. F. Schtabe. No. 960,718; June 7; Sp. p. 972; Gaz. vol. 155; p. 161.
Level attachment for straight-edges. O. H. Lund. No. 948,232; Feb. 1; Sp. p. 924; Gaz. vol. 151; p. 151.
Level attachment, Plumb-. W. A. Goble. No. 969,855; Sept. 13; Sp. p. 1547; Gaz. vol. 158; p. 265.
Level, Combination-. M. F. Holbrook. No. 955,799; Apr. 19; Sp. p. 4542; Gaz. vol. 153; p. 785.
Level-controlling device. C. A. Brown. No. 976,432; Nov. 22; Sp. p. 5207; Gaz. vol. 160; p. 884.
Level device for braces, &c. H. H. Pugh. No. 949,842; Feb. 22; Sp. p. 4313; Gaz. vol. 151; p. 777.
Level, Extension-. V. A. Wilson. No. 953,113; Mar. 29; Sp. p. 5457; Gaz. vol. 152; p. 997.
Level, Fluid-. L. J. Deslattes. No. 946,660; Jan. 18; Sp. p. 3687; Gaz. vol. 150; p. 617.
Level, Folding. A. I. Heistad. No. 945,275; Jan. 4; Sp. p. 560; Gaz. vol. 150; p. 92.
Level for measuring angles and inclinations, Spirit-. A. Stauffer. No. 946,472; Jan. 11; Sp. p. 3300; Gaz. vol. 150; p. 530.
Level, Grade-. J. E. De Bisschop. No. 970,472; Sept. 20; Sp. p. 2835; Gaz. vol. 158; p. 495.
Level, Plumb-. A. E. Young. No. 950,199; Feb. 22; Sp. p. 5141; Gaz. vol. 151; p. 902.
Level, Plumb-. A. A. Baumann. No. 957,834; May 10; Sp. p. 2820; Gaz. vol. 154; p. 484.
Level, Plumb-. H. Platt. No. 969,654; Sept. 6; Sp. p. 1071; Gaz. vol. 158; p. 172.
Level, Plumb-. J. C. Hansen, Jr. No. 977,735; Dec. 6; Sp. p. 694; Gaz. vol. 161; p. 108.
Level, Protractor-. W. P. James. No. 970,714; Sept. 20; Sp. p. 3379; Gaz. vol. 158; p. 580.
Level, Spirit-. E. Andersen. No. 948,570; Feb. 8; Sp. p. 1671; Gaz. vol. 151; p. 291.
Level, Spirit-. C. Bodmer and J. M. Burdick. No. 954,074; Apr. 5; Sp. p. 787; Gaz. vol. 153; p. 137.
Level, Spirit-. C. Bodmer. No. 959,296; May 24; Sp. p. 6229; Gaz. vol. 154; p. 1041.
Level, Spirit-. S. L. Stratton. No. 963,959; July 12; Sp. p. 2070; Gaz. vol. 156; p. 338.
Level, Spirit-. C. H. Stamm. No. 967,258; Aug. 16; Sp. p. 3061; Gaz. vol. 157; p. 530.
Level, Spirit-. G. W. Lingle. No. 970,729; Sept. 20; Sp. p. 3402; Gaz. vol. 158; p. 584.
Leveler, Field-. G. M. Brand. No. 957,732; May 10; Sp. p. 2609; Gaz. vol. 154; p. 451.
Leveler, marker, and border machine, Combined. J. P. Wallace. No. 960,454; June 7; Sp. p. 421; Gaz. vol. 155; p. 71.
Leveling and grading instrument. L. T. Hull. No. 971,752; Oct. 4; Sp. p. 510; Gaz. vol. 159; p. 88.
Leveling and scraping machine. M. P. Zindorf. No. 952,663; Mar. 22; Sp. p. 4491; Gaz. vol. 152; p. 817.
Leveling device, Universal. G. A. Rhodes. No. 962,467; June 28; Sp. p. 4708; Gaz. vol. 155; p. 829.
Leveling mechanism for engineering and surveying instruments. J. L. Saegmuller and A. Grebe. No. 955,911; Apr. 26; Sp. p. 4821; Gaz. vol. 153; p. 853.
Leveling-rod. G. de la Peña. No. 952,275; Mar. 15; Sp. p. 3663; Gaz. vol. 152; p. 656.
Lever. C. A. Murphy. No. 976,901; Nov. 29; Sp. p. 6203; Gaz. vol. 160; p. 1068.
Lever and wedge, Combined. J. R. Hale. No. 953,138; Mar. 29; Sp. p. 5511; Gaz. vol. 152; p. 1005.
Lever-locking device. F. S. Hardin. No. 968,659; Aug. 30; Sp. p. 6021; Gaz. vol. 157; p. 1057.
Lever mechanism. J. F. Chilcote. No. 965,082; July 19; Sp. p. 4512; Gaz. vol. 156; p. 751.
Lever mechanism, Platform. F. H. Buckingham. No. 967,880; Aug. 23; Sp. p. 4323; Gaz. vol. 157; p. 762.
Lever, Operating-. W. C. A. Henry. No. 954,515; Apr. 12; Sp. p. 1752; Gaz. vol. 153; p. 314.
Lever, Resilient compound. W. V. Gilbert. No. 966,325; Aug. 2; Sp. p. 999; Gaz. vol. 157; p. 161.
Lever, Reverse-. G. R. Maupin and J. W. Faessler. No. 967,947; Aug. 23; Sp. p. 4461; Gaz. vol. 157; p. 785.
Lever, Self-locking. L. Romines. No. 980,008; Dec. 27; Sp. p. 5591; Gaz. vol. 161; p. 966.
Lever, Uncoupling-. J. J. Hannon. No. 949,824; Feb. 22; Sp. p. 4282; Gaz. vol. 151; p. 772.
Lever, Uncoupling-. E. S. Clarkson. No. 949,955; Feb. 22; Sp. p. 4578; Gaz. vol. 151; p. 818.
Lever, Uncoupling-. W. P. Murphy. No. 951,541; Mar. 8; Sp. p. 2191; Gaz. vol. 152; p. 381.
Lever, Uncoupling-. W. P. Murphy. No. 962,912; June 28; Sp. p. 5615; Gaz. vol. 155; p. 983.
Lewis. L. Ciardelli. No. 956,938; May 3; Sp. p. 942; Gaz. vol. 154; p. 151.
Libraries and the like, Controlling apparatus for. B. Otten. No. 969,395; Sept. 6; Sp. p. 527; Gaz. vol. 158; p. 83.
Lid and lifting device, Combined. M. B. Blake. No. 977,430; Dec. 6; Sp. p. 9; Gaz. vol. 161; p. 4.
Life-buoy. F. Woods. No. 969,020; Aug. 30; Sp. p. 6768; Gaz. vol. 157; p. 1179.
Life-buoy rack. C. S. Lenz. No. 947,446; Jan. 25; Sp. p. 5434; Gaz. vol. 150; p. 910.
Life-preserver. J. Ellendman. No. 945,768; Jan. 11; Sp. p. 1693; Gaz. vol. 150; p. 284.
Life-preserver. S. Pichler. No. 950,240; Feb. 22; Sp. p. 5231; Gaz. vol. 151; p. 917.
Life-preserver. W. S. Wilkinson and G. B. Upham. No. 960,129; May 31; Sp. p. 8029; Gaz. vol. 154; p. 1349.
Life-preserver. W. Schweikert. No. 967,983; Aug. 23; Sp. p. 4545; Gaz. vol. 157; p. 798.
Life-preserver. A. H. Klint. No. 974,158; Nov. 1; Sp. p. 103; Gaz. vol. 160; p. 20.
Life-preserver and swimming-machine. O. B. Lyon and W. H. Young. No. 957,513; May 10; Sp. p. 2172; Gaz. vol. 154; p. 375.
Life-preserving and swimming apparatus. O. Strohschein. No. 952,763; Mar. 22; Sp. p. 4708; Gaz. vol. 152; p. 850.
Life-preserving swimming-jacket. A. Badger. No. 961,282; June 14; Sp. p. 2126; Gaz. vol. 155; p. 381.

Alphabetical list of inventions—Continued.

Life-raft. W. S. Ray. No. 961,459; June 14; Sp. p. 2503; Gaz. vol. 155; p. 440.
Life-saving apparatus. J. Franz. No. 946,798; Jan. 18; Sp. p. 4007; Gaz. vol. 150; p. 664.
Life-saving apparatus. J. A. Jakobsen. No. 971,273; Sept. 27; Sp. p. 4539; Gaz. vol. 158; p. 794.
Life-saving apparatus. J. L. Winkler. No. 976,240; Nov. 22; Sp. p. 4770; Gaz. vol. 160; p. 817.
Life-saving apparatus. T. Ingaramo. No. 978,378; Dec. 13; Sp. p. 2076; Gaz. vol. 161; p. 362.
Life-saving attachment for submarines. S. S. Peterson. No. 974,516; Nov. 1; Sp. p. 1019; Gaz. vol. 160; p. 151.
Life-saving device. J. J. Rectenwald. No. 975,281; Nov. 8; Sp. p. 2714; Gaz. vol. 160; p. 439.
Life-saving device for submarine boats. E. Labowsky. No. 953,473; Mar. 29; Sp. p. 6234; Gaz. vol. 152; p. 1117.
Life-saving machine. T. F. Browder. No. 952,871; Mar. 22; Sp. p. 4933; Gaz. vol. 152; p. 888.
Life-sheet fender, Automatic. M. L. Keizur. No. 955,967; Apr. 26; Sp. p. 4939; Gaz. vol. 153; p. 873.
Lift. A. Gavryloff. No. 966,394; Aug. 2; Sp. p. 1133; Gaz. vol. 157; p. 183.
Lift. C. F. Turner. No. 968,501; Aug. 23; Sp. p. 5667; Gaz. vol. 157; p. 976.
Lift, Air-. W. A. Knight. No. 960,023; May 31; Sp. p. 7818; Gaz. vol. 154; p. 1314.
Lift-cages, Safety-catch for suspended. F. Weidig. No. 964,890; July 19; Sp. p. 4132; Gaz. vol. 156; p. 688.
Lift compressing and distributing machine. G. F. Reinhardt. No. 976,215; Nov. 22; Sp. p. 4682; Gaz. vol. 160; p. 807.
Lifts, Air-distributing nozzle for air-. G. L. Joss. No. 955,409; Apr. 19; Sp. p. 3707; Gaz. vol. 153; p. 652.
Lifter: *See* Ash-lifter; Beet-lifter; Bottle-cap lifter; Box-lifter; Egg-lifter; Invalid-lifter; Lantern-globe lifter; Pan-lifter; Pan and plate lifter; Plate-lifter; Plug-lifter; Receptacle-lifter; Sheet or card lifter; Shock-lifter; Stove-lid and pan lifter; Tire-lifter; Transom-lifter; Well-rod lifter.
Lifter. E. B. Topp. No. 955,722; Apr. 19; Sp. p. 4401; Gaz. vol. 153; p. 759.
Lifter. F. W. Glymps. No. 957,463; May 10; Sp. p. 2072; Gaz. vol. 154; p. 359.
Lifting barrels, boxes, and the like, Collapsible stand for. J. B. James. No. 972,863; Oct. 18; Sp. p. 2948; Gaz. vol. 159; p. 523.
Lifting device. J. King and H. C. Kimpton. No. 979,313; Dec. 20; Sp. p. 4112; Gaz. vol. 161; p. 708.
Lifting device. J. H. Spencer and J. Simpson. No. 980,020; Dec. 27; Sp. p. 5610; Gaz. vol. 161; p. 970.
Lifting-jack. A. B. Cherry. No. 945,489; Jan. 4; Sp. p. 1052; Gaz. vol. 150; p. 162.
Lifting-jack. J. E. Morse. No. 948,517; Feb. 8; Sp. p. 1560; Gaz. vol. 151; p. 275.
Lifting-jack. G. R. Booth. No. 948,843; Feb. 8; Sp. p. 2255; Gaz. vol. 151; p. 383.
Lifting-jack. A. F. Kester. No. 953,531; Mar. 29; Sp. p. 6365; Gaz. vol. 152; p. 1139.
Lifting-jack. J. H. Burkholder. No. 956,478; Apr. 26; Sp. p. 6055; Gaz. vol. 153; p. 1049.
Lifting-jack. A. Halvorson. No. 956,577; May 3; Sp. p. 154; Gaz. vol. 154; p. 26.
Lifting-jack. J. M. Hawkins, S. E. Adkins, and W. C. Call. No. 957,333; May 10; Sp. p. 1813; Gaz. vol. 154; p. 316.
Lifting-jack. A. Neal. No. 958,969; May 24; Sp. p. 5555; Gaz. vol. 154; p. 933.
Lifting-jack. C. H. Noyes. No. 959,157; May 24; Sp. p. 5946; Gaz. vol. 154; p. 995.
Lifting-jack. C. A. Paisley. No. 961,986; June 21; Sp. p. 3636; Gaz. vol. 155; p. 639.
Lifting-jack. J. H. Burkholder. No. 963,206; July 5; Sp. p. 468; Gaz. vol. 156; p. 64.
Lifting-jack. E. L. Coddington. No. 964,394; July 12; Sp. p. 2941; Gaz. vol. 156; p. 486.
Lifting-jack. R. M. Fraley. No. 964,905; July 19; Sp. p. 4164; Gaz. vol. 156; p. 693.
Lifting-jack. A. F. Wilson. No. 966,374; Aug. 2; Sp. p. 1097; Gaz. vol. 157; p. 177.
Lifting-jack. C. E. Hylander. No. 967,126; Aug. 9; Sp. p. 2794; Gaz. vol. 157; p. 458.
Lifting-jack. P. J. Harrah. No. 968,474; Aug. 23; Sp. p. 5599; Gaz. vol. 157; p. 966.
Lifting-jack. S. M. Wenger. No. 968,722; Aug. 30; Sp. p. 6173; Gaz. vol. 157; p. 1079.
Lifting-jack. J. B. Runner. No. 969,567; Sept. 6; Sp. p. 891; Gaz. vol. 158; p. 141.
Lifting-jack. I. Key. No. 970,239; Sept. 13; Sp. p. 2354; Gaz. vol. 158; p. 397.
Lifting-jack. C. E. Loetzer and W. T. Goodnow. No. 971,286; Sept. 27; Sp. p. 4560; Gaz. vol. 158; p. 798.
Lifting-jack. J. W. Gaddis. No. 974,049; Oct. 25; Sp. p. 5522; Gaz. vol. 159; p. 958.
Lifting-jack. W. Haslup. No. 974,768; Nov. 1; Sp. p. 1562; Gaz. vol. 160; p. 241.
Lifting-jack. R. J. Northam. No. 974,988; Nov. 8; Sp. p. 2079; Gaz. vol. 160; p. 339.
Lifting-jack. T. H. Lovejoy. No. 975,548; Nov. 15; Sp. p. 3287; Gaz. vol. 160; p. 557.
Lifting-jack. C. E. Hylander. No. 977,450; Dec. 6; Sp. p. 49; Gaz. vol. 161; p. 10.
Lifting-jack. M. L. Jenkins. No. 978,453; Dec. 13; Sp. p. 2234; Gaz. vol. 161; p. 387.
Lifting jack. F. E. Place and M. L. Jenkins. No. 979,092; Dec. 20; Sp. p. 3611; Gaz. vol. 161; p. 630.
Lifting-jack and wire-stretcher, Combination. E. R. and W. H. Wileman and J. C. Clement. No. 964,594; July 19; Sp. p. 3427; Gaz. vol. 156; p. 585.
Lifting-jack appliance. A. W. Sallander. No. 971,217; Sept. 27; Sp. p. 4432; Gaz. vol. 158; p. 777.
Lifting-jack, Multiple. A. H. Scholle. No. 949,331; Feb. 15; Sp. p. 3254; Gaz. vol. 151; p. 572.
Lifting-jack, Multiple. A. H. Scholle. No. 961,899; June 21; Sp. p. 3449; Gaz. vol. 155; p. 610.
Light: *See* Candle-light; Car rotating light; Electric light; Flash-light; Gas-light; Gas flash-light; Head-light; Incandescent light; Pavement and other light; Pivot-light; Rear light; Sidewalk-light; Vault-light; Vehicle-light.
Light-fixture, Extension. C. M. Pitel. No. 956,823; May 3; Sp. p. 708; Gaz. vol. 154; p. 111.
Light from hydrocarbons, Process and apparatus for producing. C. K. Harding. No. 969,368; Sept. 6; Sp. p. 460; Gaz. vol. 158; p. 75.
Light-holder. E. K. Southwick. No. 972,480; Oct. 11; Sp. p. 2088; Gaz. vol. 159; p. 393.
Light-holder, Detachable and portable. W. H. Sackman. No. 958,440; May 17; Sp. p. 4454; Gaz. vol. 154; p. 728.
Light-projecting apparatus. C. E. Nilsson. No. 965,401; July 26; Sp. p. 5179; Gaz. vol. 156; p. 889.
Light-projecting device. C. R. Forster. No. 961,114; June 14; Sp. p. 1765; Gaz. vol. 155; p. 321.
Light-securing means. T. Hoops, jr. No. 960,926; June 7; Sp. p. 1368; Gaz. vol. 155; p. 230.
Light-sensitive layer-carriers and film structure therefor, Device for exposing. J. Schmuck. No. 947,946; Feb. 1; Sp. p. 352; Gaz. vol. 151; p. 57.
Light-striker. R. von Horváth. No. 971,380; Sept. 27; Sp. p. 4744; Gaz. vol. 158; p. 829.
Lighter, Automatic. S. B. Battey. No. 970,294; Sept. 13; Sp. p. 2464; Gaz. vol. 158; p. 415.
Lighter, Pocket-. L. V. Aronson. No. 965,149; July 26; Sp. p. 4649; Gaz. vol. 156; p. 805.
Lighting and battery circuits. J. F. McElroy. No. 976,743; Nov. 22; Sp. p. 5834; Gaz. vol. 160; p. 988.
Lighting apparatus. E. Seitz. No. 967,067; Aug. 9; Sp. p. 2653; Gaz. vol. 157; p. 436
Lighting apparatus. W. H. Browne. No. 972,328; Oct. 11; Sp. p. 1764; Gaz. vol. 159; p. 310.
Lighting apparatus, &c., Coupling for the operating-chains of. T. M. Harrigan. No. 974,567; Nov. 1; Sp. p. 1138; Gaz. vol. 160; p. 171.
Lighting appliance. F. A. Feldkamp. No. 946,796; Jan. 18; Sp. p. 3990; Gaz. vol. 150; p. 663.
Lighting appliance. F. A. Feldkamp. No. 947,438; Jan. 25; Sp. p. 5415; Gaz. vol. 150; p. 908.
Lighting appliance. L. V. Aronson. No. 966,153; Aug. 2; Sp. p. 660; Gaz. vol. 157; p. 105.
Lighting device. G. A. Macbeth. No. 979,181; Dec. 20; Sp. p. 3844; Gaz. vol. 161; p. 665.
Lighting effects on stages by means of high-tension currents of high frequency, Production of. C. F. Zhaniel. No. 973,736; Oct. 25; Sp. p. 4880; Gaz. vol. 159; p. 848.
Lighting-fixture. F. W. Wakefield. No. 971,942; Oct. 4; Sp. p. 949; Gaz. vol. 159; p. 160.
Lighting-fixture. F. W. Wakefield. No. 971,943; Oct. 4; Sp. p. 951; Gaz. vol. 159; p. 160.
Lighting-fixture. G. D. Beinert. No. 975,823; Nov. 15; Sp. p. 3852; Gaz. vol. 160; p. 650.
Lighting-fixture hanger. E. H. Wakefield. No. 961,050; June 7; Sp. p. 1628; Gaz. vol. 155; p. 273.
Lighting-fixtures, Shade and reflector support for. W. C. Hine. No. 957,956; May 17; Sp. p. 3125; Gaz. vol. 154; p. 556.
Lighting, Long-distance. J. Lafitte. No. 968,774; Aug. 30; Sp. p. 6284; Gaz. vol. 157; p. 1097.
Lighting system. W. L. Bliss. No. 946,715; Jan. 18; Sp. p. 3800; Gaz. vol. 150; p. 635.
Lighting system. M. Unger. No. 953,404; Mar. 29; Sp. p. 6087; Gaz. vol. 152; p. 1094.
Lighting system, Carbureted-vapor. G. E. Hulse. No. 946,901; Jan. 18; Sp. p. 4263; Gaz. vol. 150; p. 700.
Lighting system, Hydrocarbon. C. K. Harding. No. 976,127; Nov. 15; Sp. p. 4458; Gaz. vol. 160; p. 754.
Lighting system, Hydrocarbon. J. W. Baker. No. 978,811; Dec. 13; Sp. p. 2989; Gaz. vol. 161; p. 506.
Lighting system, Wireless. E. B. Tustin, Jr. No. 961,914; June 21; Sp. p. 3478; Gaz. vol. 155; p. 616.
Lighting systems. Automatic controlling apparatus for. M. G. Cowper-Smith. No. 972,752; Oct. 11; Sp. p. 2697; Gaz. vol. 159; p. 459.
Lightning-arrester. W. C. Shinn. No. 945,293; Jan. 4; Sp. p. 624; Gaz. vol. 150; p. 97.
Lightning-arrester. P. H. Thomas. No. 946,080; Jan. 11; Sp. p. 2367; Gaz. vol. 150; p. 393.
Lightning-arrester. W. R. Garton. No. 946,542; Jan. 18; Sp. p. 3449; Gaz. vol. 150; p. 580.
Lightning-arrester. A. Oleson. No. 946,982; Jan. 18; Sp. p. 4418; Gaz. vol. 150; p. 727.
Lightning-arrester. W. A. Binion. No. 947,692; Jan. 25; Sp. p. 5963; Gaz. vol. 150; p. 992.

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Lightning-arrester. B. E. Clarkson. No. 948,873; Feb. 8; Sp. p. 2305; Gaz. vol. 151; p. 392.
Lightning-arrester. G. W. Clark. No. 949,565; Feb. 15; Sp. p. 3746; Gaz. vol. 151; p. 651.
Lightning-arrester. J. C. Seaman. No. 953,301; Mar. 29; Sp. p. 5852; Gaz. vol. 152; p. 1057.
Lightning-arrester. H. C. Wirt. No. 958,454; May 17; Sp. p. 4478; Gaz. vol. 154; p. 733.
Lightning-arrester. W. W. Dean. No. 959,120; May 24; Sp. p. 5867; Gaz. vol. 154; p. 983.
Lightning-arrester. H. C. Walford. No. 959,658; May 31; Sp. p. 6982; Gaz. vol. 154; p. 1189.
Lightning-arrester. B. H. Mann. No. 963,233; July 5; Sp. p. 519; Gaz. vol. 156; p. 73.
Lightning-arrester. F. P. H. Knight. (Reissue.) No. 13,141; Aug. 9; Sp. p. 2841; Gaz. vol. 157; p. 466.
Lightning-arrester. J. E. Petree. No. 968,402; Aug. 23; Sp. p. 5462; Gaz. vol. 157; p. 941.
Lightning-arrester. W. E. Phelps. No. 968,405; Aug. 23; Sp. p. 5469; Gaz. vol. 157; p. 943.
Lightning-arrester. F. M. Butler. No. 969,336; Sept. 6; Sp. p. 389; Gaz. vol. 158; p. 63.
Lightning-arrester. F. W. Peak, Jr. No. 973,555; Oct. 25; Sp. p. 4496; Gaz. vol. 159; p. 785.
Lightning-arrester. F. T. Forster. No 973,645; Oct. 25; Sp. p. 4695; Gaz. vol. 159; p. 816.
Lightning-arrester. A. J. Wurts. No. 974,223; Nov. 1; Sp. p. 265; Gaz. vol. 160; p. 44.
Lightning-arrester. W. Butler. No. 974,859; Nov. 8; Sp. p. 1766; Gaz. vol. 160; p. 294.
Lightning-arrester. P. H. Thomas. No. 978,959; Dec. 20; Sp. p. 3327; Gaz. vol. 161; p. 586.
Lightning-arrester. W. R. Garton. No. 979,464; Dec. 27; Sp. p. 4416; Gaz. vol. 161; p. 781.
Lightning-arrester, Pole-line. A. R. Rheinberger. No. 949,130; Feb. 15; Sp. p. 2850; Gaz. vol. 151; p. 504.
Lightning-arresters, Automatic attachment for cleaning round carbon or metal. W. S. Hale. No. 968,938; Aug. 30; Sp. p. 6609; Gaz. vol. 157; p. 1151.
Lightning-arresting apparatus. T. M. Stevens. No. 962,536; June 28; Sp. p. 4856; Gaz. vol. 155; p. 854.
Lightning-conductor. E. Redmond. No. 970,642; Sept. 20; Sp. p. 3221; Gaz. vol. 158; p. 555.
Lightning-conductor point and point-rod protector. C. Bajohr. No. 963,496; July 5; Sp. p. 1067; Gaz. vol. 156; p. 162.
Lightning-protector. A. F. Rosenberger. No. 970,556; Sept. 20; Sp. p. 3015; Gaz. vol. 158; p. 525.
Lightning-protector for buildings. J. P. A. Anderson. No. 951,411; Mar. 8; Sp. p. 1941; Gaz. vol. 152; p. 337.
Lightning-rod. G. J. Moore. No. 950,454; Feb. 22; Sp. p. 5623; Gaz. vol. 151; p. 986.
Lightning-rod. E. J. Kress. No. 974,396; Nov. 1; Sp. p. 711; Gaz. vol. 160; p. 108.
Lightning-rod construction. T. Thompson. No. 963,830; July 12; Sp. p. 1810; Gaz. vol. 156; p. 297.
Lightning-rod, Electric-cable. L. L. Mast. No. 965,207; July 26; Sp. p. 4764; Gaz. vol. 156; p. 823.
Lightning-rod support. J. J. Maher. No. 950,181; Feb. 22; Sp. p. 5105; Gaz. vol. 151; p. 896.
Lightning-rod upright. G. J. Moore. No. 964,297; July 12; Sp. p. 2764; Gaz. vol. 156; p. 455.
Limb, Artificial. J. E. Hanger. No. 951,989; Mar. 15; Sp. p. 3110; Gaz. vol. 152; p. 561.
Limb, Artificial. E. Mueller. No. 963,797; July 12; Sp. p. 1718; Gaz. vol. 156; p. 286.
Limb, Artificial. J. A. Galvin. No. 975,029; Nov. 8; Sp. p. 2168; Gaz. vol. 160; p. 353.
Limb, Artificial. T. M. Lawrence. No. 975,439; Nov. 15; Sp. p. 3040; Gaz. vol. 160; p. 519.
Limb, Artificial. W. E. Showalter. No. 977,974; Dec. 6; Sp. p. 1199; Gaz. vol. 161; p. 192.
Limb suspender and back-check, Artificial-. J. F. Rowley. No. 961,165; June 14; Sp. p. 1867; Gaz. vol. 155; p. 339.
Lime and gas, Manufacture of. G. G. Floyd. No. 948,045; Feb. 1; Sp. p. 557; Gaz. vol. 151; p. 89.
Lime, Hydrating. L. T. Leet. No. 955,814; Apr. 19; Sp. p. 4572; Gaz. vol. 153; p. 790.
Lime, Hydrating. W. H. Kemler. No. 956,977; May 3; Sp. p. 1048; Gaz. vol. 154; p. 164.
Lime-spreader. E. G. and A. E. Quickel. No. 965,936; Aug. 2; Sp. p. 183; Gaz. vol. 157; p. 32.
Lime-water, Producing saturated. H. H. Sutro. No. 973,992; Oct. 25; Sp. p. 5407; Gaz. vol. 159; p. 938.
Line-casting machine. P. T. Dodge. No. 945,497; Jan. 4; Sp. p. 1067; Gaz. vol. 150; p. 165.
Line-casting machine. J. R. Rogers. No. 945,609; Jan. 4; Sp. p. 1287; Gaz. vol. 150; p. 201.
Line-casting machine. R. F. Mercer. No. 948,182; Feb. 1; Sp. p. 824; Gaz. vol. 151; p. 135.
Line-casting machine. J. McNamara. No. 951,655; Mar. 8; Sp. p. 2424; Gaz. vol. 152; p. 419.
Line-casting machine. D. S. Kennedy. No. 952,569; Mar. 22; Sp. p. 4280; Gaz. vol. 152; p. 784.
Line-casting machine. G. D. Hartley. No. 953,745; Apr. 5; Sp. p. 126; Gaz. vol. 153; p. 25.
Line-casting machine. J. R. Rogers. No. 955,695; Apr. 19; Sp. p. 4334; Gaz. vol. 153; p. 749.
Line-casting machine. J. R. Rogers. No. 957,802; May 10; Sp. p. 2763; Gaz. vol. 154; p. 473.
Line-casting machine. J. R. Rogers. No. 958,317; May 17; Sp. p. 4196; Gaz. vol. 154; p. 685.
Line-casting machine. D. S. Kennedy. No. 959,755; May 31; Sp. p. 7185; Gaz. vol. 154; p. 1220.
Line-casting machine. J. R. Rogers. No. 961,798; June 21; Sp. p. 3212; Gaz. vol. 155; p. 577.
Line-casting machine. J. R. Rogers. No. 961,799; June 21; Sp. p. 3215; Gaz. vol. 155; p. 577.
Line-casting machine. F. C. Lucke d'Aix. No. 972,591; Oct. 11; Sp. p. 2368; Gaz. vol. 159; p. 404.
Line-casting machine. D. S. Kennedy. No. 975,433; Nov. 15; Sp. p. 3030; Gaz. vol. 160; p. 517.
Line-casting machine. D. S. Kennedy. No. 975,434; Nov. 15; Sp. p. 3031; Gaz. vol. 160; p. 517.
Line-casting machine, &c. W. G. Middleton. No. 957,433; May 10; Sp. p. 2019; Gaz. vol. 154; p. 350.
Line-casting machines, Distributing mechanism for. R. G. Clark. No. 945,694; Jan. 4; Sp. p. 1463; Gaz. vol. 150; p. 229.
Line-casting machines, &c., Ejecting device for. J. R. Rogers. No. 967,976; Aug. 23; Sp. p. 4530; Gaz. vol. 157; p. 796.
Line-casting machines, Justifier for. R. G. Clark. No. 955,764; Apr. 19; Sp. p. 4476; Gaz. vol. 153; p. 772.
Line-casting machines, Matrix for. J. R. Rogers. No. 951,968; Mar. 15; Sp. p. 3071; Gaz. vol. 152; p. 554.
Line-casting machines, Matrix for. R. M. Bedell. No. 958,076; May 17; Sp. p. 3564; Gaz. vol. 154; p. 601.
Line-casting machines, Means for adjusting the molds of typographical. C. Muehleisen. No. 966,227; Aug. 2; Sp. p. 823; Gaz. vol. 157; p. 131.
Line-chalking device. F. W. Brotz. No. 952,303; Mar. 15; Sp. p. 3718; Gaz. vol. 152; p. 665.
Line-check. W. H. Fowler. No. 949,177; Feb. 15; Sp. p. 2933; Gaz. vol. 151; p. 520.
Line-check. W. H. Fowler. No. 954,178; Apr. 5; Sp. p. 1021; Gaz. vol. 153; p. 173.
Line-holder. E. O'Brien. No. 950,702; Mar. 1; Sp. p. 520; Gaz. vol. 152; p. 82.
Line-holder. T. Petersen. No. 958,168; May 17; Sp. p. 3749; Gaz. vol. 154; p. 634.
Line-holder. I. B. Turner. No. 963,834; July 12; Sp. p. 1819; Gaz. vol. 156; p. 299.
Line-holder. A. Hitt. No. 965,458; July 26; Sp. p. 5316; Gaz. vol. 156; p. 908.
Line-holder. J. Bart. No. 966,297; Aug. 2; Sp. p. 956; Gaz. vol. 157; p. 152.
Line setting and casting machine. H. Degener. No. 977,280; Nov. 29; Sp. p. 7056; Gaz. vol. 160; p. 1200.
Line-spacing mechanism. J. Raber. No. 958,173; May 17; Sp. p. 3761; Gaz. vol. 154; p. 635.
Line-supporter. H. W. Wells. No. 948,002; Feb. 1; Sp. p. 463; Gaz. vol. 151; p. 75.
Line-threading machine. F. N. Steigleder. No. 979,899; Dec. 27; Sp. p. 5378; Gaz. vol. 161; p. 930.
Linear meter. E. H. Allen. No. 967,297; Aug. 16; Sp. p. 3136; Gaz. vol. 157; p. 542.
Lineman's chair. J. W. Davis. No. 973,633; Oct. 25; Sp. p. 4666; Gaz. vol. 159; p. 812.
Liner, Sectional. J. Baum, Jr. No. 951,719; Mar. 8; Sp. p. 2524; Gaz. vol. 152; p. 439.
Lineman's tool. W. H. Whittemore. No. 972,305; Oct. 11; Sp. p. 1728; Gaz. vol. 159; p. 303.
Linen-smoother. C. Ellis. No. 956,693; May 3; Sp. p. 426; Gaz. vol. 154; p. 68.
Lineograph. T. E. Ford. No. 950,846; Mar. 1; Sp. p. 821; Gaz. vol. 152; p. 131.
Link and making same, Connecting-. J. Merritt. No. 956,394; Apr. 26; Sp. p. 5867; Gaz. vol. 153; p. 1020.
Link-forming machine. J. F. Gail. No. 957,203; May 10; Sp. p. 1523; Gaz. vol. 154; p. 269.
Link, Lap-. P. H. De Rochemont. No. 959,317; May 24; Sp. p. 6266; Gaz. vol. 154; p. 1049.
Link mesh, Machine for making. A. C. Pratt. No. 948,615; Feb. 8; Sp. p. 1764; Gaz. vol. 151; p. 305.
Link, Repair-. S. E. Oneal. No. 955,426; Apr. 19; Sp. p. 3739; Gaz. vol. 153; p. 656.
Link, Spring-. H. W. Sanford. No. 961,022; June 7; Sp. p. 1573; Gaz. vol. 155; p. 264.
Linoleum and the like, Manufacture of. E. Traeber and R. Holtkott. No. 949,863; Feb. 22; Sp. p. 4386; Gaz. vol. 151; p. 785.
Linoleum, Manufacture of. W. D. and D. L. Snow. No. 948,189; Feb. 1; Sp. p. 838; Gaz. vol. 151; p. 137.
Linoleum, Manufacturing. P. Blaubach. No. 948,572; Feb. 8; Sp. p. 1674; Gaz. vol. 151; p. 291.
Linoleum product and making same. B. S. Summer. No. 965,344; July 26; Sp. p. 5072; Gaz. vol. 156; p. 871.
Linotype-machine. W. J. Rennie. No. 945,046; Jan. 4; Sp. p. 79; Gaz. vol. 150; p. 15.
Linotype-machine. W. H. Scharf. No. 945,051; Jan. 4; Sp. p. 90; Gaz. vol. 150; p. 16.
Linotype-machine. J. R. Rogers. No. 945,608; Jan. 4; Sp. p. 1284; Gaz. vol. 150; p. 200.
Linotype-machine. G. D. Hartley. No. 945,718; Jan. 4; Sp. p. 1530; Gaz. vol. 150; p. 238.
Linotype-machine. G. D. Hartley. No. 945,719; Jan. 4; Sp. p. 1535; Gaz. vol. 150; p. 238.
Linotype-machine. R. F. Wilson. No. 952,397; Mar. 15; Sp. p. 3891; Gaz. vol. 152; p. 696.

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Linotype-machine. F. Schimmel. No. 953,237; Mar. 29; Sp. p. 5711; Gaz. vol. 152; p. 1037.
Linotype-machine. J. R. Rogers. No. 953,764; Apr. 5; Sp. p. 166; Gaz. vol. 153; p. 31.
Linotype machine. H. Plaut. No. 955,681; Apr. 19; Sp. p. 4302; Gaz. vol. 153; p. 744.
Linotype-machine. G. D. Hartley. No. 956,344; Apr. 26; Sp. p. 5767; Gaz. vol. 153; p. 1003.
Linotype-machine. J. B. Allen. No. 956,790; May 3; Sp. p. 615; Gaz. vol. 154; p. 99.
Linotype-machine. W. H. Scharf. No. 963,076; July 5; Sp. p. 101; Gaz. vol. 156; p. 18.
Linotype-machine. W. H. Scharf. No. 963,077; July 5; Sp. p. 105; Gaz. vol. 156; p. 19.
Linotype-machine. T. S. Homans. No. 965,300; July 26; Sp. p. 4957; Gaz. vol. 156; p. 855.
Linotype-machine. A. E. Markwell. No. 968,064; Aug. 23; Sp. p. 4738; Gaz. vol. 157; p. 825.
Linotype-machine. W. E. Elliott. No. 973,181; Oct. 18; Sp. p. 3701; Gaz. vol. 159; p. 635.
Linotype-machine attachment. C. G. Pickett. No. 958,530; May 17; Sp. p. 4619; Gaz. vol. 154; p. 759.
Linotype-machine matrix. G. W. Grasnick. No. 956,337; Apr. 26; Sp. p. 5751; Gaz. vol. 153; p. 1001.
Linotype-machines, Automatic pump stop mechanism for. H. Pearce and J. E. Billington. No. 959,961; May 31; Sp. p. 7661; Gaz. vol. 154; p. 1292.
Linotype-machines, Chute-spring for. G. E. Wallin. No. 970,146; Sept. 13; Sp. p. 2138; Gaz. vol. 158; p. 365.
Linotype-machines, Cleaning attachment for space-bands of. U. Piagneri. No. 974,594; Nov. 1; Sp. p. 1183; Gaz. vol. 160; p. 181.
Linotype-machines, &c., Keyboard mechanism for. J. R. Rogers. No. 973,566; Oct. 25; Sp. p. 4516; Gaz. vol. 159; p. 789.
Linotype-machines, Space-band buffer for. G. E. Wallin. No. 976,957; Nov. 29; Sp. p. 6361; Gaz. vol. 160; p. 1088.
Linotype-machines, Time-controlled heating system for. A. A. Hill. No. 952,195; Mar. 15; Sp. p. 3484; Gaz. vol. 152; p. 628.
Lint-packing apparatus. G. W. Cameron. No. 969,841; Sept. 13; Sp. p. 1520; Gaz. vol. 158; p. 261.
Linter's float. G. L. Blanchard. No. 947,367; Jan. 25; Sp. p. 5266; Gaz. vol. 150; p. 885.
Liquid-actuating apparatus. R. Conrader. No. 969,940; Sept. 13; Sp. p. 1716; Gaz. vol. 158; p. 295.
Liquid-actuating apparatus. R. Conrader. No. 979,746; Dec. 27; Sp. p. 5031; Gaz. vol. 161; p. 878.
Liquid-concentrating apparatus. P. Kestner. (Reissue.) No. 13,117; May 24; Sp. p. 6505; Gaz. vol. 154; p. 1088.
Liquid-concentrating apparatus. P. Kestner. No. 971,383; Sept. 27; Sp. p. 4749; Gaz. vol. 158; p. 829.
Liquid-cooler. E. Russell. No. 948,252; Feb. 1; Sp. p. 966; Gaz. vol. 151; p. 158.
Liquid-cooler. J. Allan. No. 956,788; May 3; Sp. p. 612; Gaz. vol. 154; p. 98.
Liquid-cooler. F. P. Hopkins. No. 976,803; Nov. 22; Sp. p. 5977; Gaz. vol. 160; p. 1009.
Liquid-cooling coil. L. Purfurst. No. 967,974; Aug. 23; Sp. p. 4526; Gaz. vol. 157; p. 795.
Liquid-cooling device. D. H. Moore. No. 963,009; June 28; Sp. p. 5800; Gaz. vol. 155; p. 1015.
Liquid-delivering apparatus. L. Minlos. No. 978,047; Dec. 6; Sp. p. 1345; Gaz. vol. 161; p. 216.
Liquid-delivering device. W. B. Haines. No. 959,216; May 24; Sp. p. 6068; Gaz. vol. 154; p. 1015.
Liquid-discharging device. E. Pagett. No. 974,105; Oct. 25; Sp. p. 5629; Gaz. vol. 159; p. 976.
Liquid-dispensing apparatus. H. K. Smith. No. 950,411; Feb. 22; Sp. p. 5551; Gaz. vol. 151; p. 972.
Liquid-dispensing apparatus. J. C. Brantley. No. 953,408; Mar. 29; Sp. p. 6096; Gaz. vol. 152; p. 1095.
Liquid-dispensing apparatus. W. Helmer. No. 958,871; May 24; Sp. p. 5364; Gaz. vol. 154; p. 900.
Liquid-dispensing apparatus. H. P. Gorman. No. 977,298; Nov. 29; Sp. p. 7088; Gaz. vol. 160; p. 1206.
Liquid-dispensing appliance. I. W. Hughes. No. 948,883; Feb. 8; Sp. p. 2321; Gaz. vol. 151; p. 395.
Liquid-dispensing device. H. C. Moores. No. 951,829; Mar. 15; Sp. p. 2772; Gaz. vol. 152; p. 507.
Liquid-dispensing device. J. Mandelberg. No. 977,112; Nov. 29; Sp. p. 6709; Gaz. vol. 160; p. 1142.
Liquid-ejecting apparatus. H. K. Smith. No. 950,410; Feb. 22; Sp. p. 5547; Gaz. vol. 151; p. 972.
Liquid-elevating apparatus. G. H. Irwin, J. P. Cullon, and F. Knowlson. No. 979,957; Dec. 27; Sp. p. 5489; Gaz. vol. 161; p. 949.
Liquid-elevating mechanism. M. J. Christensen. No. 957,656; May 10; Sp. p. 2453; Gaz. vol. 154; p. 424.
Liquid-flow controller. J. W. Ledoux. No. 950,208; Feb. 22; Sp. p. 5163; Gaz. vol. 151; p. 906.
Liquid-fuel burner. H. E. Brett. No. 945,080; Jan. 4; Sp. p. 154; Gaz. vol. 150; p. 26.
Liquid-fuel burner. F. C. Richardson. No. 947,943; Feb. 1; Sp. p. 349; Gaz. vol. 151; p. 56.
Liquid-fuel burner. C. H. Speer. No. 952,372; Mar. 15; Sp. p. 3846; Gaz. vol. 152; p. 688.
Liquid-fuel burner. W. F. Goodwin and J. C. Low. No. 953,136; Mar. 29; Sp. p. 5507; Gaz. vol. 152; p. 1004.
Liquid-fuel burner. L. Stokes and T. M. Vickers. No. 955,715; Apr. 19; Sp. p. 4384; Gaz. vol. 153; p. 757.
Liquid-fuel burner. F. S. McKibben. No. 962,457; June 28; Sp. p. 4679; Gaz. vol. 155; p. 826.
Liquid-fuel burner. J. A. Mitchell. No. 963,617; July 5; Sp. p. 1317; Gaz. vol. 156; p. 203.
Liquid-fuel burner. W. R. Montgomery. No. 966,575; Aug. 9; Sp. p. 1601; Gaz. vol. 157; p. 272.
Liquid-fuel burner. W. R. Montgomery. No. 966,576; Aug. 9; Sp. p. 1603; Gaz. vol. 157; p. 273.
Liquid-fuel burner. C. W. Weiss. No. 966,628; Aug. 9; Sp. p. 1702; Gaz. vol. 157; p. 291.
Liquid-fuel burner. B. R. Phillips. No. 969,978; Sept. 13; Sp. p. 1806; Gaz. vol. 158; p. 307.
Liquid-fuel burner. J. P. Hollenbeck. No. 970,335; Sept. 13; Sp. p. 2544; Gaz. vol. 158; p. 429.
Liquid-fuel burner. H. Shapel. No. 972,931; Oct. 18; Sp. p. 3141; Gaz. vol. 159; p. 548.
Liquid-fuel burner. C. A. Swartz and S. Finley. No. 973,995; Oct. 25; Sp. p. 5420; Gaz. vol. 159; p. 939.
Liquid-fuel burner. J. P. Roberts. No. 975,460; Nov. 15; Sp. p. 3082; Gaz. vol. 160; p. 527.
Liquid-fuel burner. W. Scrimgeour. No. 976,221; Nov. 22; Sp. p. 4704; Gaz. vol. 160; p. 809.
Liquid-fuel burner. B. Moore. No. 976,592; Nov. 22; Sp. p. 5554; Gaz. vol. 160; p. 938.
Liquid-fuel burner. L. C. Morse. No. 976,680; Nov. 22; Sp p. 5716; Gaz. vol. 160; p. 967.
Liquid-fuel burner. W. R. McHill. No. 976,820; Nov. 22; Sp. p. 6006; Gaz. vol. 160; p. 1015.
Liquid-fuel burner. J. C. McQuerry and A. L. Evrett. No. 976,898; Nov. 29; Sp. p. 6200; Gaz. vol. 160; p. 1067.
Liquid-fuel-burning apparatus. F. E. Nelson. No. 952,932; Mar. 22; Sp. p. 5056; Gaz. vol. 152; p. 908.
Liquid-fuel purifier and gaged governor. Z. H. Stamets. No. 972,282; Oct. 11; Sp. p. 1682; Gaz. vol. 159; p. 295.
Liquid-fuel strainer. W. C. Carter. No. 973,756; Oct. 25; Sp. p. 4915; Gaz. vol. 159; p. 855.
Liquid-fuel tank. J. A. Steinmetz. No. 958,025; May 17; Sp. p. 3351; Gaz. vol. 154; p. 582.
Liquid-fuel-vaporizing apparatus. F. J. H. Rustige. No. 947,458; Jan. 25; Sp. p. 5469; Gaz. vol. 150; p. 914.
Liquid-gage. G. Everson. No. 964,960; July 19; Sp. p. 4266; Gaz. vol. 156; p. 712.
Liquid-gage. M. M. Borden. No. 973,101; Oct. 18; Sp. p. 3503; Gaz. vol. 159; p. 605.
Liquid-heater, Electric. O. H. Fiddes. No. 945,027; Jan. 4; Sp. p. 33; Gaz. vol. 150; p. 8.
Liquid heating and applying apparatus. O. H. Elbrecht. No. 954,945; Apr. 12; Sp. p. 2737; Gaz. vol. 153; p. 463.
Liquid-heating apparatus. P. T. Arduino. No. 946,311; Jan. 11; Sp. p. 2870; Gaz. vol. 150; p. 476.
Liquid heating or cooling apparatus. A. Jensen. No. 949,769; Feb. 22; Sp. p. 4157; Gaz. vol. 151; p. 752.
Liquid into vessels through a closed chamber by an adjustable nozzle, Means for introducing. J. A. Hicks. No. 949,479; Feb. 15; Sp. p. 3566; Gaz. vol. 151; p. 622.
Liquid into vessels through closed chambers of filling-machines, Means for introducing. J. M. Hicks. No. 948,762; Feb. 8; Sp. p. 2098; Gaz. vol. 151; p. 356.
Liquid material, Apparatus for agitating. R. S. Towne. No. 952,222; Mar. 15; Sp. p. 3553; Gaz. vol. 152; p. 639.
Liquid-meter. C. W. Meek. No. 950,752; Mar. 1; Sp. p. 626; Gaz. vol. 152; p. 100.
Liquid-meter. J. W. Ledoux. No. 956,374; Apr. 26; Sp. p. 5832; Gaz. vol. 153; p. 1013.
Liquid-meter. J. W. Ledoux. No. 956,375; Apr. 26; Sp. p. 5834; Gaz. vol. 153; p. 1013.
Liquid mixing and containing apparatus. F. Purdy. No. 963,322; July 5; Sp. p. 720; Gaz. vol. 156; p. 104.
Liquid mixing and containing apparatus. F. Purdy. No. 972,243; Oct. 11; Sp. p. 1603; Gaz. vol. 159; p. 282.
Liquid-mixing apparatus. J. Szamek. No 945,143; Jan. 4; Sp. p. 269; Gaz. vol. 150; p. 47.
Liquid-motor. A. F. Krause. No. 969,378; Sept. 6; Sp. p. 492; Gaz. vol. 158; p. 78.
Liquid pasteurizing or cooling apparatus. M. Thomsen. No. 952,767; Mar. 22; Sp. p. 4721; Gaz. vol. 152; p. 852.
Liquid-purifying apparatus. L. Linden. No. 963,448; July 5; Sp. p. 973; Gaz. vol. 156; p. 146.
Liquid-purifying apparatus, Current reversing and control mechanism for. H. B. Hartman. No. 951,315; Mar. 8; Sp. p. 1739; Gaz. vol. 152; p. 306.
Liquid-purifying machine, Centrifugal. A. Pontén. No. 957,250; May 10; Sp. p. 1622; Gaz. vol. 154; p. 286.
Liquid-receptacle. J. B. Fallon. No. 966,186; Aug. 2; Sp. p. 742; Gaz. vol. 157; p. 117.
Liquid-retainer. W. B. Fisk. No. 959,495; May 31; Sp. p. 6650; Gaz. vol. 154; p. 1134.
Liquid-separator. F. G. Epply. No. 951,806; Mar. 15; Sp. p. 2737; Gaz. vol. 152; p. 500.
Liquid-separator, Centrifugal. M. L. Hoyt. No. 950,331; Feb. 22; Sp. p. 5405; Gaz. vol. 151; p. 948.
Liquid-separator, Centrifugal. C. H. Hackett. No. 951,370; Mar. 8; Sp. p. 1850; Gaz. vol. 152; p. 323.
Liquid-separator, Centrifugal. C. D. Hellström. No. 954,958; Apr. 12; Sp. p. 2764; Gaz. vol. 153; p. 468.
Liquid-separator. Centrifugal. J. P. Johansson. No. 963,577; July 5; Sp. p. 1237; Gaz. vol. 156; p. 190.

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Liquid-separators, Liner for centrifugal. C. A. F. Ramström. No. 957,092; May 3; Sp. p. 1275; Gaz. vol. 154; p. 202.
Liquid-shaker. N. Christensen. No. 977,165; Nov. 29; Sp. p. 6836; Gaz. vol. 160; p. 1160.
Liquid-storing device. J. C. Kellogg, Jr. No. 965,196; July 26; Sp. p. 4739; Gaz. vol. 156; p. 820.
Liquid-testing apparatus, Automatic. W. Raabe. No. 978,644; Dec. 13; Sp. p. 2674; Gaz. vol. 161; p. 455.
Liquid-treating apparatus. K. W. Bartlett. No. 947,783; Feb. 1; Sp. p. 11; Gaz. vol. 151; p. 4.
Liquids, Air-controlled feed system for. E. J. Moore. No. 960,986; June 7; Sp. p. 1496; Gaz. vol. 155; p. 251.
Liquids and apparatus therefor, Separating. L. Strom. No. 968,206; Aug. 23; Sp. p. 5057; Gaz. vol. 157; p. 872.
Liquids and fluid substances, Machine for clarifying and filtering. T. B. Marshall. No. 955,889; Apr. 26; Sp. p. 4778; Gaz. vol. 153; p. 846.
Liquids, Apparatus for controlling the flow of. A. Priestman and H. Beddoes. No. 967,972; Aug. 23; Sp. p. 4518; Gaz. vol. 157; p. 794.
Liquids, Apparatus for storage and delivery of inflammable. R. Hausdorf. No. 977,188; Nov. 29; Sp. p. 6889; Gaz. vol. 160; p. 1169.
Liquids, Compressed-air apparatus for elevating. L. S. Matheus and C. Leindecker. No. 976,818; Nov. 22; Sp. p. 6001; Gaz. vol. 160; p. 1014.
Liquids, Concentrating. P. Kestner. No. 965,822; July 26; Sp. p. 6103; Gaz. vol. 156; p. 1036.
Liquids, Device for drawing off measured quantities of. C. L. Newland. No. 963,633; July 5; Sp. p. 1347; Gaz. vol. 156; p. 208.
Liquids for flushing or other purposes, Electrically-operated apparatus for discharging. W. H. and R. Thompson. No. 978,678; Dec. 13; Sp. p. 2736; Gaz. vol. 161; p. 466.
Liquids from barrels into storage-receptacles, Apparatus for discharging. R. Hausdorf. No. 946,039; Jan. 11; Sp. p. 2286; Gaz. vol. 150; p. 380.
Liquids from solids, Separating. H. G. Nichols. No. 958,272; May 17; Sp. p. 3959; Gaz. vol. 154; p. 667.
Liquids in measured quantities, Apparatus for distributing. S. Effantin. No. 971,259; Sept. 27; Sp. p. 4517; Gaz. vol. 158; p. 790.
Liquids, Inlet-controller for. F. B. Leopold. No. 964,528; July 19; Sp. p. 3257; Gaz. vol. 156; p. 561.
Liquids, Means for separating comminuted ores or other solid matter from. A. J. Arbuckle. No. 958,068; May 17; Sp. p. 3549; Gaz. vol. 154; p. 598.
Liquids or semiliquids, Apparatus for purifying. N. H. Freeman. No. 948,725; Feb. 8; Sp. p. 2007; Gaz. vol. 151; p. 343.
Liquids, Purification of. A. E. Williams. No. 960,608; June 7; Sp. p. 747; Gaz. vol. 155; p. 123.
Liquids, Separating organic materials from aqueous. H. M. Goodman. No. 966,196; Aug. 2; Sp. p. 760; Gaz. vol. 157; p. 120.
Liquids, Tank for settling, filtering, and collecting solids from. J. E. Rothwell. No. 976,923; Nov. 29; Sp. p. 6265; Gaz. vol. 160; p. 1076.
Liquids under pressure, Apparatus for conveying. B. C. Rowell. No. 973,816; Oct. 25; Sp. p. 5038; Gaz. vol. 159; p. 876.
Liquids with coagulants, Apparatus for impregnating. J. W. Ledoux. No. 976,665; Nov. 22; Sp. p. 5695; Gaz. vol. 160; p. 963.
Liquor-aging apparatus. J. Seitz. No. 950,579; Mar. 1; Sp. p. 244; Gaz. vol. 152; p. 41.
Liquor, Apparatus for making bisulfite. J. Vollmer and R. S. Talbot. No. 945,426; Jan. 4; Sp. p. 911; Gaz. vol. 150; p. 142.
Liquor-treating apparatus. J. Seitz. No. 961,167; June 14; Sp. p. 1870; Gaz. vol. 155; p. 339.
Liquors, Manufacture of fermented. O. Huber. No. 950,791; Mar. 1; Sp. p. 715; Gaz. vol. 152; p. 114.
Lister. I. A. Weaver. No. 977,576; Dec. 6; Sp. p. 367; Gaz. vol. 161; p. 54.
Lister attachment. W. J. Steele. No. 976,311; Nov. 22; Sp. p. 4936; Gaz. vol. 160; p. 841.
Litharge from metallic lead mixed with it, Freeing. L. S. Hughes. No. 975,955; Nov. 15; Sp. p. 4117; Gaz. vol. 160; p. 696.
Lithographic-printing plates, Producing. W. Gerb. No 956,764; May 3; Sp. p. 570; Gaz. vol. 154; p. 91.
Lithographic stone, Cemented. H. Wagner. (Reissue.) No. 13,084; Feb. 22; Sp. p. 5657; Gaz. vol. 151; p. 991.
Lithopone-white and treating same. C. R. Steinau. No. 955,918; Apr. 26; Sp. p. 4834; Gaz. vol. 153; p. 855.
Litter-carrier. L. T. Sehemmel and C. L. Besler. No. 948,554; Feb. 8; Sp. p. 1641; Gaz. vol. 151; p. 286.
Litter-carrier. C. F. Brostrom and F. Lang. No. 961,712; June 14; Sp. p. 3030; Gaz. vol. 155; p. 524.
Litter-carrier. G. A. Olson. No. 978,331; Dec. 13; Sp. p. 1987; Gaz. vol. 161; p. 346.
Litter-carrier. G. A. Olson. No. 978,332; Dec. 13; Sp. p. 1989; Gaz. vol. 161; p. 346.
Litter-carrier. F. and A. Strand. No. 978,340; Dec. 13; Sp. p. 2002; Gaz. vol. 161; p. 349.
Litter-carriers, Single-lever lock and trip mechanism for. W. Gutenkunst. No. 961,493; June 14; Sp. p. 2595; Gaz. vol. 155; p. 452.
Load-binder, wire-tightener, and lifting-jack. J. L. Shipman. No. 958,777; May 24; Sp. p. 5128; Gaz. vol. 154; p. 865.
Load-binder. R. L. Boyd. (Reissue.) No. 13,164; Nov. 8; Sp. p. 2944; Gaz. vol. 160; p. 474.
Load-regulated brake. G. F. South. No. 977,756; Dec. 6; Sp. p. 735; Gaz. vol. 161; p. 116.
Loader. C. Ehlers. No. 967,892; Aug. 23; Sp. p. 4342; Gaz. vol. 157; p. 767.
Loader and stacker. R. B. Fulton. No. 975,849; Nov. 15; Sp. p. 3903; Gaz. vol. 160; p. 659.
Loader, Portable. M. E. Mogg and C. A. Gardner. No. 956,816; May 3; Sp. p. 689; Gaz. vol. 154; p. 108.
Loading and dumping apparatus. G. W. Boldrey and G. R. Hussung. No. 978,817; Dec. 13; Sp. p. 2997; Gaz. vol. 161; p. 508.
Loading and unloading apparatus. A. L. English. No. 949,981; Feb. 22; Sp. p. 4678; Gaz. vol. 151; p. 828.
Loading and unloading apparatus. A. R. Holmén. No. 954,572; Apr. 12; Sp. p. 1864; Gaz. vol. 153; p. 333.
Loading and unloading device. O. R. Henke. No. 958,396; May 17; Sp. p. 4363; Gaz. vol. 154; p. 712.
Loading apparatus. R. C. Glise. No. 947,902; Feb. 1; Sp. p. 263; Gaz. vol. 151; p. 43.
Loading apparatus. J. M. Caraway. No. 950,593; Mar. 1; Sp. p. 268; Gaz. vol. 152; p. 44.
Loading apparatus. J. C. Clark. No. 951,268; Mar. 8; Sp. p. 1625; Gaz. vol. 152; p. 290.
Loading apparatus. H. T. Shipley. No. 952,954; Mar. 22; Sp. p. 5099; Gaz. vol. 152; p. 915.
Loading apparatus. J. Nichol. No. 954,328; Apr. 5; Sp. p. 1350; Gaz. vol. 153; p. 224
Loading apparatus. F. M. Arnold. No. 964,364; July 12; Sp. p. 2883; Gaz. vol. 156; p. 476.
Loading apparatus. W. T. Scott. No. 971,568; Oct. 4; Sp. p. 128; Gaz. vol. 159; p. 24.
Loading apparatus. J. E. Woods and E. L. Harding. No. 975,917; Nov. 15; Sp. p. 4052; Gaz. vol. 160; p. 682.
Loading device. G. V. Hughes. No. 954,632; Apr. 12; Sp. p. 2007; Gaz. vol. 153; p. 354.
Loading device. F. Fifield. No. 960,299; June 7; Sp. p. 116; Gaz. vol. 155; p. 23.
Loading device, Vehicle-. R. C. Miner. No. 954,198; Apr. 5; Sp. p. 1061; Gaz. vol. 153; p. 180.
Loading-machine. G. Kruse. No. 946,514; Jan. 11; Sp. p. 3402; Gaz. vol. 150; p. 544.
Loading-machine. W. Whaley. No. 976,711; Nov. 22; Sp. p. 5772; Gaz. vol. 160; p. 977.
Loading-machine. T. Malloy. No. 979,778; Dec. 27; Sp. p. 5103; Gaz. vol. 161; p. 888.
Loading-machine, Portable. W. C. Zelle. No. 954,492; Apr. 12; Sp. p. 1698; Gaz. vol. 153; p. 306.
Localizing apparatus. J. R. Kelley. No. 965,195; July 26; Sp. p. 4733; Gaz. vol. 156; p. 819.
Lock: *See* Asylum-lock; Automobile-controller lever-lock; Ball-bearing lock; Beer-case seal-lock; Bicycle-lock; Binder-lock; Binder ball-lock; Blind-lock; Bolt-lock; Bolt-and-latch lock; Bolt and nut lock; Box-lock; Bridge center lock; Button-lock; Can-lock; Car-lock; Car-door lock; Coin-controlled lock; Coin-freed lock; Coin-operated key-lock; Combination-lock; Cylinder-lock; Desk-lock; Door-lock; Electrically-operated lock; Elevator-door lock; Elevator safety-lock; Flat-key lock; Frame-lock; Gear-lock; Grate-lock; Gun-lock; Gun safety-lock; Hasp-lock; Hay-sling lock; Head-gate lock; Hose-coupling lock; Hotel-lock; Hotel-corridor lock; Indicator-lock; Interchangeable-key lock; Joint-lock; Key-lock; Keyhole-lock; Keyless lock; Knob-lock; Lamp-lock; Last-lock; Mail-bag lock; Meter-lock; Mortise-lock; Multiple-key lock; Night-lock; Nut-lock; Nut and bolt lock; Oar-lock; Padlock; Permutation-lock; Piano-pedal lock; Pin-tumbler lock; Portable lock; Puzzle-lock; Rail-joint lock; Railway safety-lock; Railway-switch lock; Rim and mortise lock; Safety-lock; Sash-lock; Sash or window lock; Screen-plate lock; Screw-lock; Seal-lock; Ship-lock; Show-case lock; Splice-bar lock; Springless lock; Stovepipe-lock; Switch-lock; Switch-lever lock; Table-lock; Time-lock; Tire and rim lock; Trigger-lock; Trolley safety-lock; Trunk and suit-case lock; Tumbler-lock; Umbrella-lock; Umbrella-holder lock; Vehicle-lock; Vehicle-seat lock; Wagon-seat lock; Wheel-lock; Whip-lock; Whip-socket lock; Window-lock.
Lock. P. Ziron. No. 945,664; Jan. 4; Sp. p. 1407; Gaz. vol. 150; p. 219.
Lock. C. E. Lowe. No. 946,240; Jan. 11; Sp. p. 2705; Gaz. vol. 150; p. 450.
Lock. F. D. Tubbs. No. 947,135; Jan. 18; Sp. p. 4693; Gaz. vol. 150; p. 775.
Lock. H. B. Zendel. No. 947,623; Jan. 25; Sp. p. 5844; Gaz. vol. 150; p. 970.
Lock. J. W. H. Taylor. No. 947,866; Feb. 1; Sp. p. 183; Gaz. vol. 151; p. 31.
Lock. A. Reinikka. No. 947,941; Feb. 1; Sp. p. 347; Gaz. vol. 151; p. 55.
Lock. J. Junkunc. No. 948,280; Feb. 1; Sp. p. 1019; Gaz. vol. 151; p. 168.
Lock. S. N. Badger. No. 949,409; Feb. 15; Sp. p. 3442; Gaz. vol. 151; p. 600.
Lock. C. A. Berry. No. 949,613; Feb. 15; Sp. p. 3826; Gaz. vol. 151; p. 667.

Alphabetical list of inventions—Continued.

Lock. W. F. Feistner. No. 949,889; Feb. 22; Sp. p. 4448; Gaz. vol. 151; p. 795.
Lock. H. F. Keil. No. 950,698; Mar. 1; Sp. p. 502; Gaz. vol. 152; p. 80.
Lock. H. F. Keil. No. 950,926; Mar. 1; Sp. p. 969; Gaz. vol. 152; p. 155.
Lock. H. F. Keil. No. 951,734; Mar. 8; Sp. p. 2565; Gaz. vol. 152; p. 445.
Lock. H. F. Keil. No. 952,118; Mar. 15; Sp. p. 3352; Gaz. vol. 152; p. 603.
Lock. A. C. Jackson. No. 952,254; Mar. 15; Sp. p. 3607; Gaz. vol. 152; p. 649.
Lock. B. Summerfield. No. 952,480; Mar. 22; Sp. p. 4082; Gaz. vol. 152; p. 754.
Lock. H. V. P. Cooke. No. 953,777; Apr. 5; Sp. p. 186; Gaz. vol. 153; p. 34.
Lock. F. B. Walts. No. 953,874; Apr. 5; Sp. p. 381; Gaz. vol. 153; p. 69.
Lock. F. W. Schultze. No 954,593; Apr. 12; Sp. p. 1915; Gaz. vol. 153; p. 340.
Lock. W. F. Diesel. No. 954,720; Apr. 12; Sp. p. 2206; Gaz. vol. 153; p. 384.
Lock. E. L. Teich. No. 956,000; Apr. 26; Sp. p. 5003; Gaz. vol. 153; p. 885.
Lock. H. G. Voight. No. 956,004; Apr. 26; Sp. p. 5013; Gaz. vol. 153; p. 886.
Lock. P. F. Augenbraun. No. 956,262; Apr. 26; Sp. p. 5592; Gaz. vol. 153; p. 975.
Lock. E. H. Jones. No. 956,361; Apr. 26; Sp. p. 5803; Gaz. vol. 153; p. 1008.
Lock. J. H. Wilkins. No. 956,561; May 3; Sp. p. 114; Gaz. vol. 154; p. 21.
Lock. W. Cox. No. 957,938; May 17; Sp. p. 3067; Gaz. vol. 154; p. 550.
Lock. J. A. Chambless. No. 958,706; May 17; Sp. p. 4958; Gaz. vol. 154; p. 815.
Lock. A. Lawson. No. 958,880; May 24; Sp. p. 5385; Gaz. vol. 154; p. 903.
Lock. C. A. Berry. No. 959,293; May 24; Sp. p. 6223; Gaz. vol. 154; p. 1040.
Lock. M. H. Farmer. No. 960,868; June 7; Sp. p. 1264; Gaz. vol. 155; p. 212.
Lock. R. Adams. No. 961,996; June 21; Sp. p. 3651; Gaz. vol. 155; p. 642.
Lock. H. G. Voight. No. 962,276; June 21; Sp. p. 4279; Gaz. vol. 155; p. 739.
Lock. P. Ziron. No. 962,486; June 28; Sp. p. 4742; Gaz. vol. 155; p. 836.
Lock. J. Sipos. No. 962,792; June 28; Sp. p. 5400; Gaz. vol. 155; p. 942.
Lock. C. E. Lowe. No. 963,451; July 5; Sp. p. 980; Gaz. vol. 156; p. 147.
Lock. A. Lawrence. No. 963,591; July 5; Sp. p. 1265; Gaz. vol. 156; p. 194.
Lock. E. B. Stone. No. 964,331; July 12; Sp. p. 2825; Gaz. vol. 156; p. 466.
Lock. A. W. Dowe. No. 964,465; July 12; Sp. p. 3085; Gaz. vol. 156; p. 507.
Lock. J. W. Freeman. No. 964,507; July 19; Sp. p. 3204; Gaz. vol. 156; p. 555.
Lock. H. H. and W. W. Lyon. No. 964,990; July 19; Sp. p. 4328; Gaz. vol. 156; p. 722.
Lock. W. C. Burge. No. 965,279; July 26; Sp. p. 4910; Gaz. vol. 156; p. 847.
Lock. H. C. Stevens. No. 966,261; Aug. 2; Sp. p. 890; Gaz. vol. 157; p. 142.
Lock. G. Schwob. No. 967,066; Aug. 9; Sp. p. 2651; Gaz. vol. 157; p. 436.
Lock. M. Schrader. No. 967,843; Aug. 16; Sp. p. 4247; Gaz. vol. 157; p. 726.
Lock. H. W. Woodruff. No. 969,236; Sept. 6; Sp. p. 195; Gaz. vol. 158; p. 32.
Lock. C. Vrbsky. No. 969,578; Sept. 6; Sp. p. 914; Gaz. vol. 158; p. 145.
Lock. A. F. Schroeder. No. 970,123; Sept. 13; Sp. p. 2097; Gaz. vol. 158; p. 357.
Lock. G. N. Mason. No. 970,252; Sept. 13; Sp. p. 2389; Gaz. vol. 158; p. 402.
Lock. H. M. Leese. No. 970,934; Sept. 20; Sp. p. 3831; Gaz. vol. 158; p. 653.
Lock. F. Walters. No. 971,423; Sept. 27; Sp. p. 4812; Gaz. vol. 158; p. 842.
Lock. F. Liers. No. 971,763; Oct. 4; Sp. p. 532; Gaz. vol. 159; p. 93.
Lock. J. B. Hoover. No. 972,535; Oct. 11; Sp. p. 2220; Gaz. vol. 159; p. 384.
Lock. T. M. Kwasnieski. No. 972,543; Oct. 11; Sp. p. 2239; Gaz. vol. 159; p. 387.
Lock. E. O. Storelee. No. 972,728; Oct. 11; Sp. p. 2650; Gaz. vol. 159; p. 450.
Lock. C. E. Johnson. No. 972,865; Oct. 18; Sp. p. 2951; Gaz. vol. 159; p. 523.
Lock. F. T. Purdham. No. 973,301; Oct. 18; Sp. p. 3941; Gaz. vol. 159; p. 675.
Lock. H. G. Voight. No. 973,728; Oct. 25; Sp. p. 4864; Gaz. vol. 159; p. 846.
Lock. F. G. Diehl. No. 973,920; Oct. 25; Sp. p. 5259; Gaz. vol. 159; p. 912.
Lock. C. E. C. Edey. No. 973,928; Oct. 25; Sp. p. 5273; Gaz. vol. 159; p. 915.
Lock. J. Blaszczyk. No. 974,636; Nov. 1; Sp. p. 1276; Gaz. vol. 160; p. 196.
Lock. H. Markovitz. No. 975,880; Nov. 15; Sp. p. 3972; Gaz. vol. 160; p. 669.
Lock. M. Shepard. No. 976,509; Nov. 22; Sp. p. 5360; Gaz. vol. 160; p. 909.
Lock. F. Soley. No. 976,515; Nov. 22; Sp. p. 5371; Gaz. vol. 160; p. 911.
Lock. W. Curlett. No. 976,784; Nov. 22; Sp. p. 5946; Gaz. vol. 160; p. 1003.
Lock. V. J. M. Eras. No. 977,085; Nov. 29; Sp. p. 6643; Gaz. vol. 160; p. 1132.
Lock. F. Kuba. No. 977,102; Nov. 29; Sp. p. 6687; Gaz. vol. 160; p. 1138.
Lock. J. A. Fremon. No. 977,181; Nov. 29; Sp. p. 6872; Gaz. vol. 160; p. 1167.
Lock. H. G. Voight. No. 977,688; Dec. 6; Sp. p. 606; Gaz. vol. 161; p. 92.
Lock. N. H. Crane. No. 978,273; Dec. 13; Sp. p. 1862; Gaz. vol. 161; p. 326.
Lock. R. Brohmann. No. 978,554; Dec. 13; Sp. p. 2452; Gaz. vol. 161; p. 422.
Lock. P. W. Kindlespire and J. R. Cannan. No. 978,899; Dec. 20; Sp. p. 3173; Gaz. vol. 161; p. 563.
Lock. L. P. Percival. No. 978,931; Dec. 20; Sp. p. 3241; Gaz. vol. 161; p. 575.
Lock. A. Colosimo. No. 979,825; Dec. 27; Sp. p. 5218; Gaz. vol. 161; p. 905.
Lock. E. Hershey. No. 980,154; Dec. 27; Sp. p. 5939; Gaz. vol. 161; p. 1014.
Lock-actuating mechanism, Time-. E. M. Benham. No. 976,028; Nov. 15; Sp. p. 4247; Gaz. vol. 160; p. 720.
Lock-alarm. J. F. Howard. No. 956,580; May 3; Sp. p. 158; Gaz. vol. 154; p. 27.
Lock and latch. H. G. Voight. No. 947,089; Jan. 18; Sp. p. 4616; Gaz. vol. 150; p. 762.
Lock and latch, Combined. C. M. Drury. No. 955,774; Apr. 19; Sp. p. 4493; Gaz. vol. 153; p. 776.
Lock-box. G. Schwinn. No. 976,102; Nov. 15; Sp. p. 4403; Gaz. vol. 160; p. 746.
Lock-corner. E. R. Hall. No. 959,734; May 31; Sp. p. 7148; Gaz. vol. 154; p. 1213.
Lock for prepayment-meters and similar devices. H. H. Newman and J. J. Ferrick. No. 955,825; Apr. 19; Sp. p. 4595; Gaz. vol. 153; p. 794.
Lock for windows and analogous devices. W. L. Deming. No. 957,600; May 10; Sp. p. 2332; Gaz. vol. 154; p. 405.
Lock for windows and the like. F. F. Smith. No. 979,581; Dec. 27; Sp. p. 4679; Gaz. vol. 161; p. 821.
Lock-hook. A. Stridell, O. R. Halbom, and R. M. McNeil. No. 964,068; July 12; Sp. p. 2291; Gaz. vol. 156; p. 377.
Lock indicator, Coin-controlled-. W. H. Kluge. No. 955,969; Apr. 26; Sp. p. 4945; Gaz. vol. 153; p. 874.
Lock-mortiser. L. M. New. No. 969,897; Sept. 13; Sp. p. 1631; Gaz. vol. 158; p. 281.
Lock motor-cam, Door-. B. E. Westlin. No. 964,891; July 19; Sp. p. 4133; Gaz. vol. 156; p. 688.
Lock movements, Spring-box for time-. C. A. Miller. No. 954,323; Apr. 5; Sp. p. 1339; Gaz. vol. 153; p. 221.
Lock-nut mechanism. J. Perrie. No. 959,162; May 24; Sp. p. 5960; Gaz. vol. 154; p. 997.
Lock-operating device. W. A. Hill. No. 955,267; Apr. 19; Sp. p. 3391; Gaz. vol. 153; p. 604.
Lock-stop protector. G. N. Mason. No. 961,979; June 21; Sp. p. 3617; Gaz. vol. 155; p. 637.
Lock-strike. T. B. Stevens. No. 958,443; May 17; Sp. p. 4459; Gaz. vol. 154; p. 729.
Lock-strike. F. Liers. No. 973,358; Oct. 18; Sp. p. 4063; Gaz. vol. 159; p. 696.
Lock-strike. E. J. Bumiller. No. 975,675; Nov. 15; Sp. p. 3571; Gaz. vol. 160; p. 601.
Lock switch, Permutation-. J. T. Whalen. No. 968,217; Aug. 23; Sp. p. 5086; Gaz. vol. 157; p. 876.
Lock system. H. G. Voight. No. 974,317; Nov. 1; Sp. p. 544; Gaz. vol. 160; p. 80.
Lock-washer. F. G. Kollenberg. No. 945,127; Jan. 4; Sp. p. 243; Gaz. vol. 150; p. 42.
Lock-washer. E. D. Heagney. No. 959,857; May 31; Sp. p. 7409; Gaz. vol. 154; p. 1255.
Lock-washer. C. F. Beers. No. 961,204; June 14; Sp. p. 1951; Gaz. vol. 155; p. 353.
Locks, Keeper-plate for door-. S. Kozlowski. No. 964,789; July 19; Sp. p. 3928; Gaz. vol. 156; p. 653.
Locks or burglar-alarm systems, Time-controller for electric time-. J. P. Williams and H. Huhn. No. 961,922; June 21; Sp. p. 3494; Gaz. vol. 155; p. 618.
Locks, Removable dial for permutation-. C. E. Blechschmidt. No. 966,646; Aug. 9; Sp. p. 1731; Gaz. vol. 157; p. 295.
Locks, Safety device for automatically-locking. A. Leistler. No. 970,629; Sept. 20; Sp. p. 3201; Gaz. vol. 158; p. 550.
Locks, Seal-holding mechanism for. C. H. Johnson. No. 951,613; Mar. 8; Sp. p. 2332; Gaz. vol. 152; p. 404.
Locks, Stop-work mechanism for. C. A. Berry. No. 948,201; Feb. 1; Sp. p. 864; Gaz. vol. 151; p. 141.
Locker. W. N. Vance. No. 978,963; Dec. 20; Sp. p. 3335; Gaz. vol. 161; p. 587.
Locker construction. A. Thornley. No. 979,357; Dec. 20; Sp. p. 4186; Gaz. vol. 161; p. 722.

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Locker, Metal. R. W. Jefferis. No. 948,628; Feb. 8; Sp. p. 1801; Gaz. vol. 151; p. 309.
Locking and fastening device. I. Collé and S. Goldner. No. 964,396; July 12; Sp. p. 2943; Gaz. vol. 156; p. 486.
Locking and signaling device. A. D. Stanford. No. 979,808; Dec. 27; Sp. p. 5186; Gaz. vol. 161; p. 899.
Locking-bolt. C. W. Obert. No. 960,386; June 7; Sp. p. 302; Gaz. vol. 155; p. 51.
Locking-bolt. W. T. S. Dickey. No. 972,067; Oct. 4; Sp. p. 1208; Gaz. vol. 159; p. 204.
Locking device. F. D. Winterling. No. 948,804; Feb. 8; Sp. p. 2179; Gaz. vol. 151; p. 370.
Locking device. W. H. Caslow. No. 961,753; June 21; Sp. p. 3123; Gaz. vol. 155; p. 563.
Locking device. J. Marshak. No. 967,802; Aug. 16; Sp. p. 4162; Gaz. vol. 157; p. 713.
Locking device. J. W. Blower. No. 977,850; Dec. 6; Sp. p. 934; Gaz. vol. 161; p. 147.
Locking device for follower-blocks. C. J. Lundstrom. No. 970,522; Sept. 20; Sp. p. 2941; Gaz. vol. 158; p. 513.
Locking device for rotative parts. F. A. Schluns. No. 956,605; May 3; Sp. p. 213; Gaz. vol. 154; p. 37.
Locking device for windows, transoms, or the like. E. E. Flora. No. 958,386; May 17; Sp. p. 4342; Gaz. vol. 154; p. 709.
Locking device, Frictional. J. G. Jones. No. 974,156; Nov. 1; Sp. p. 98; Gaz. vol. 160; p. 20.
Locking device, Hasp- E. A. Lindstrom. No. 957,353; May 10; Sp. p. 1853; Gaz. vol. 154; p. 322.
Locking-key, Selective. J. F. Cadell. No. 955,134; Apr. 19; Sp. p. 3107; Gaz. vol. 153; p. 557.
Locking means, Closure-. C. J. Ljunggren. No. 957,354; May 10; Sp. p. 1854; Gaz. vol. 154; p. 323.
Locking means, Closure-. C. J. Ljunggren. No. 957,355; May 10; Sp. p. 1856; Gaz. vol. 154; p. 323.
Locking means, Closure-. C. J. Ljunggren. No. 975,546; Nov. 15; Sp. p. 3283; Gaz. vol. 160; p. 557.
Locking means, Closure-. C. J. Ljunggren. No. 977,646; Dec. 6; Sp. p. 516; Gaz. vol. 161; p. 78.
Locking means, Closure-. C. J. Ljunggren. No. 977,647; Dec. 6; Sp. p. 517; Gaz. vol. 161; p. 78.
Locking mechanism. A. J. Prevost. No. 975,455; Nov. 15; Sp. p. 3069; Gaz. vol. 160; p. 525.
Locking mechanism for cupboards. P. W. Hodgkinson. No. 976,261; Nov. 22; Sp. p. 4831; Gaz. vol. 160; p. 825.
Locking-switch, Safety. D. A. Beezley. No. 955,311; Apr. 19; Sp. p. 3485; Gaz. vol. 153; p. 619.
Locket. W. J. Wakefield. No. 958,983; May 24; Sp. p. 5585; Gaz. vol. 154; p. 538.
Locomotive. W. Mosley. No. 950,005; Feb. 22; Sp. p. 4739; Gaz. vol. 151; p. 836.
Locomotive. C. E. Davis. (Reissue.) No. 13,092; Mar. 8; Sp. p. 2705; Gaz. vol. 152; p. 467.
Locomotive. J. F. Beck. No. 966,884; Aug. 9; Sp. p. 2282; Gaz. vol. 157; p. 374.
Locomotive. O. G. Pendleton. No. 970,389; Sept. 13; Sp. p. 2645; Gaz. vol. 158; p. 446.
Locomotive. H. Liechty. No. 970,512; Sept. 20; Sp. p. 2916; Gaz. vol. 158; p. 509.
Locomotive. B. C. Ball. No. 974,459; Nov. 1; Sp. p. 886; Gaz. vol. 160; p. 130.
Locomotive. G. J. Hatz. No. 974,486; Nov. 1; Sp. p. 951; Gaz. vol. 160; p. 141.
Locomotive. S. M. Vauclain. No. 975,183; Nov. 8; Sp. p. 2513; Gaz. vol. 160; p. 406.
Locomotive. H. Scheib and W. A. Austin. No. 979,208; Dec. 20; Sp. p. 3890; Gaz. vol. 161; p. 673.
Locomotive and other vehicle fender. M. Lo Celso. No. 975,443; Nov. 15; Sp. p. 3046; Gaz. vol. 160; p. 520.
Locomotive, Articulated. S. M. Vauclain. No. 976,014; Nov. 15; Sp. p. 4224; Gaz. vol. 160; p. 716.
Locomotive, Articulated. C. J. Mellin. No. 977,893; Dec. 6; Sp. p. 1028; Gaz. vol. 161; p. 163.
Locomotive, Articulated. C. J. Mellin. No. 978,186; Dec. 13; Sp. p. 1672; Gaz. vol. 161; p. 294.
Locomotive, Articulated compound. J. W. Kendrick. No. 952,909; Mar. 22; Sp. p. 5007; Gaz. vol. 152; p. 900.
Locomotive, Articulated compound. C. J. Mellin and J. J. Jones. No. 958,516; May 17; Sp. p. 4596; Gaz. vol. 154; p. 754.
Locomotive ash chute and flusher. W. J. Brown. No. 952,559; Mar. 22; Sp. p. 4256; Gaz. vol. 152; p. 780.
Locomotive ash-pan. H. A. Hoke. No. 946,440; Jan. 11; Sp. p. 3227; Gaz. vol. 150; p. 519.
Locomotive ash-pan. R. J. Mitchell. No. 946,553; Jan. 18; Sp. p. 3466; Gaz. vol. 150; p. 583.
Locomotive ash-pan. H. A. Hoke. No. 949,017; Feb. 15; Sp. p. 2618; Gaz. vol. 151; p. 468.
Locomotive ash-pan. J. H. Hackley. No. 953,137; Mar. 29; Sp. p. 5510; Gaz. vol. 152; p. 1005.
Locomotive ash-pan. J. B. Ennis and H. F. Ball. No. 954,274; Apr. 5; Sp. p. 1221; Gaz. vol. 153; p. 204.
Locomotive ash-pan. A. J. Brodhead. No. 957,142; May 3; Sp. p. 1363; Gaz. vol. 154; p. 218.
Locomotive ash-pan. L. R. Battle. No. 959,106; May 24; Sp. p. 5842; Gaz. vol. 154; p. 979.
Locomotive ash-pan. W. W. Sykes. No. 962,269; June 21; Sp. p. 4262; Gaz. vol. 155; p. 737.
Locomotive ash-pan. T. H. Curtis. No. 973,765; Oct. 25; Sp. p. 4934; Gaz. vol. 159; p. 858.
Locomotive-ash-pan-dumping device. W. J. Brown. No. 960,806; June 7; Sp. p. 1152; Gaz. vol. 155; p. 192.
Locomotive ash-pit. O. Spaeth. No. 949,162; Feb. 15; Sp. p. 2907; Gaz. vol. 151; p. 515.
Locomotive attachment. W. A. Jones and W. A. Minehan. No. 975,870; Nov. 15; Sp. p. 3950; Gaz. vol. 160; p. 665.
Locomotive blower and air-pump-exhaust pipe. F. L. Holcomb. No. 956,706; May 3; Sp. p. 446; Gaz. vol. 154; p. 71.
Locomotive boiler, Articulated-. H. S. Vincent. No. 955,927; Apr. 26; Sp. p. 4850; Gaz. vol. 153; p. 858.
Locomotive-boiler superheater. W. Stephan. No. 977,234; Nov. 29; Sp. p. 6968; Gaz. vol. 160; p. 1185.
Locomotive-boiler washing and refilling apparatus. D. W. Cunningham. No. 976,438; Nov. 22; Sp. p. 5221; Gaz. vol. 160; p. 886.
Locomotive-cab window. J. W. Estes. No. 960,861; June 7; Sp. p. 1252; Gaz. vol. 155; p. 209.
Locomotive, Compressed-air. C. G. Herman. No. 959,219; May 24; Sp. p. 6073; Gaz. vol. 154; p. 1016.
Locomotive-drive-box adjuster. M. F. Brennan. No. 957,735; May 10; Sp. p. 2614; Gaz. vol. 154; p. 452.
Locomotive driving-boxes and the like, Liner for. G. Hall. No. 946,035; Jan. 11; Sp. p. 2279; Gaz. vol. 150; p. 378.
Locomotive, Electric. W. E. Woodard. No. 948,154; Feb. 1; Sp. p. 773; Gaz. vol. 151; p. 127.
Locomotive, Electric. E. F. W. Alexanderson. No. 949,347; Feb. 15; Sp. p. 3298; Gaz. vol. 151; p. 578.
Locomotive, Electric. F. L. Sessions. No. 954,475; Apr. 12; Sp. p. 1661; Gaz. vol. 153; p. 301.
Locomotive, Electric. G. M. Eaton. No. 975,404; Nov. 15; Sp. p. 2977; Gaz. vol. 160; p. 506.
Locomotive-engine. H. S. Vincent. No. 946,084; Jan. 11; Sp. p. 2373; Gaz. vol. 150; p. 394.
Locomotive-engine. H. D. Taylor. No. 948,066; Feb. 1; Sp. p. 605; Gaz. vol. 151; p. 97.
Locomotive-engine. F. J. Cole and H. R. Stafford. No. 966,166; Aug. 2; Sp. p. 698; Gaz. vol. 157; p. 110.
Locomotive-exhaust. M. Speicher. No. 947,689; Jan. 25; Sp. p. 5961; Gaz. vol. 150; p. 992.
Locomotive exhaust-nozzles, Means for automatically adjusting. W. C. Allison. No. 971,339; Sept. 27; Sp. p. 4661; Gaz. vol. 158; p. 815.
Locomotive exhaust-pipe. J. Player. No. 948,021; Feb. 1; Sp. p. 500; Gaz. vol. 151; p. 81.
Locomotive-frame. G. C. Abbe. No. 970,287; Sept. 13; Sp. p. 2450; Gaz. vol. 158; p. 413.
Locomotive front ends, Draft-equalizer for. J. Fournia. No. 959,333; May 24; Sp. p. 6305; Gaz. vol. 154; p. 1054.
Locomotive-furnace, Oil-burning. C. A. Hammel. No. 973,112; Oct. 18; Sp. p. 3525; Gaz. vol. 159; p. 609.
Locomotive, Internal-combustion. A. H. Ehle. No. 951,062; Mar. 1; Sp. p. 1210; Gaz. vol. 152; p. 199.
Locomotive-pedestal grinder. W. Salmon. No. 964,884; July 19; Sp. p. 4118; Gaz. vol. 156; p. 685.
Locomotive, Rack-rail. C. A. Pratt. No. 956,732; May 3; Sp. p. 499; Gaz. vol. 154; p. 80.
Locomotive-sander. A. A. Worzen. No. 968,305; Aug. 23; Sp. p. 5267; Gaz. vol. 157; p. 907.
Locomotive smoke-box. J. A. Pegg. No. 967,968; Aug. 23; Sp. p. 4507; Gaz. vol. 157; p. 792.
Locomotive smoke-conveyer. A. L. Bridgham. No. 973,256; Oct. 18; Sp. p. 3855; Gaz. vol. 159; p. 659.
Locomotive smoke-stack. A. F. Priest. No. 968,882; Aug. 30; Sp. p. 6499; Gaz. vol. 157; p. 1132.
Locomotive, Steam-. S. A. Barrickman. No. 972,790; Oct. 11; Sp. p. 2768; Gaz. vol. 159; p. 471.
Locomotive, Steam-storage. G. L. Wall and V. J. Shepard. No. 976,522; Nov. 22; Sp. p. 5383; Gaz. vol. 160; p. 913.
Locomotive-strainer. G. A. Bowman and C. L. Harmeyer. No. 946,199; Jan. 11; Sp. p. 2614; Gaz. vol. 150; p. 434.
Locomotive-superheater. C. A. Dwinell. No. 980,078; Dec. 27; Sp. p. 5748; Gaz. vol. 161; p. 988.
Locomotive system, Rack-rail. C. A. Pratt. No. 951,842; Mar. 15; Sp. p. 2810; Gaz. vol. 152; p. 512.
Locomotives, Cable-reeling mechanism for electric. F. L. Sessions. No. 959,621; May 31; Sp. p. 6908; Gaz. vol. 154; p. 1176.
Locomotives, Device for controlling cylinder-cocks of. J. H. De Salis. No. 958,858; May 24; Sp. p. 5326; Gaz. vol. 154; p. 896.
Locomotives, Draft-exciter for. A. L. Bridgham. No. 978,552; Dec. 13; Sp. p. 2448; Gaz. vol. 161; p. 421.
Locomotives, Exhaust-controlling device for. J. A. Richardson. No. 954,998; Apr. 12; Sp. p. 2837; Gaz. vol. 153; p. 482.
Locomotives, Reverse-lever-operating mechanism for. J. L. McGee. No. 969,181; Sept. 6; Sp. p. 82; Gaz. vol. 158; p. 13.
Locomotives, Sand-distributer for. H. R. Wasem. No. 954,233; Apr. 5; Sp. p. 1152; Gaz. vol. 153; p. 192.
Locomotives, Sanding-pipe for. E. Ryan. No. 976,304; Nov. 22; Sp. p. 4926; Gaz. vol. 160; p. 839.
Locomotives, Steam-pipes for articulated. C. J. Mellin and W. L. Reid. No. 978,323; Dec. 13; Sp. p. 1964; Gaz. vol. 161; p. 343.
Locomotor for use in conduits. G. G. Fryer and E. Pfleiderer. No. 976,162; Nov. 22; Sp. p. 4559; Gaz. vol. 160; p. 788.

Log-carrier trip-hook. J. B. Goode. No. 966,905; Aug. 9; Sp. p. 2324; Gaz. vol. 157; p. 381.
Log-conveying device. O. Torseth. No. 966,488; Aug. 9; Sp. p. 1374; Gaz. vol. 157; p. 242.
Log-conveying device. O Torseth. No. 966,489; Aug. 9; Sp. p. 1377; Gaz. vol. 157; p. 243.
Log hauling and loading machine. W. Dequede. No. 951,180; Mar. 8; Sp. p. 1449; Gaz. vol. 152; p. 262.
Log-hook. M. E. Spears. No. 951,463; Mar. 8; Sp. p. 2046; Gaz. vol. 152; p. 354.
Log-impregnating apparatus. S. Willner. No. 970,409; Sept. 13; Sp. p. 2677; Gaz. vol. 158; p. 453.
Log-marker. O. Bureau. No. 970,012; Sept. 13; Sp. p. 1884; Gaz. vol. 158; p. 320.
Log-retainer. W. Drever and C. Kellaher. No. 955,773; Apr. 19; Sp. p. 4492; Gaz. vol. 153; p. 775.
Log-scale, tree-calipers, and staff, Combined. C. A. Divine. No. 973,636; Oct. 25; Sp. p. 4676; Gaz. vol. 159; p. 813.
Log-turner dog. W. A. Overcash. No. 965,731; July 26; Sp. p. 5906; Gaz. vol. 156; p. 1004.
Log-turning device. V. T. Grabs. No. 973,423; Oct. 18; Sp. p. 4214; Gaz. vol. 159; p. 717.
Logs or the like to hauling-tackle, Means for removably attaching. S. Ashdown. No. 957,297; May 10; Sp. p. 1738; Gaz. vol. 154; p. 304.
Logging-jack. G. D. Bacon. No. 968,312; Aug. 23; Sp. p. 5283; Gaz. vol. 157; p. 911.
Logging-machine. J. R. McGiffert. No. 964,534; July 19; Sp. p. 3268; Gaz. vol. 156; p. 563.
Logging-machine. J. R. McGiffert. No. 964,535; July 19; Sp. p. 3275; Gaz. vol. 156; p. 563.
Logging system. J. H. Dickinson and W. A. Gilchrist. No. 972,831; Oct. 19; Sp. p. 2865; Gaz. vol. 159; p. 511.
Logotype, type-bar, and typographic form. F. H. Richards. No. 971,074; Sept. 27; Sp. p. 4133; Gaz. vol. 158; p. 729.
Longitudinally-movable element, Mechanism for controlling a. J. G. Bellinger. No. 951,901; Mar. 15; Sp. p. 2940; Gaz. vol. 152; p. 532.
Loom. J. E. Goodwin. No. 949,629; Feb. 15; Sp. p. 3855; Gaz. vol. 151; p. 672.
Loom. W. Harris. No. 950,021; Feb. 22; Sp. p. 4792 Gaz. vol. 151; p. 842.
Loom. H. Webster and S. Rothera. No. 950,358; Feb. 22; Sp. p. 5449; Gaz. vol. 151; p. 955.
Loom. A. M. Boydston and C. A. Cowden. No. 951,935; Mar. 15; Sp. p. 3005; Gaz. vol. 152; p. 545.
Loom. A. E. Rhoades. No. 952,637; Mar. 22; Sp. p. 4438; Gaz. vol. 152; p. 809.
Loom. G. A. Menendian. No. 954,450; Apr. 12; Sp. p. 1589; Gaz. vol. 153; p. 292.
Loom. H. Côté. No. 957,546; May 10; Sp. p. 2243; Gaz. vol. 154; p. 388.
Loom. J. E. Lemyre. No. 957,615; May 10; Sp. p. 2360; Gaz. vol. 154; p. 411.
Loom. R. H. H. Hunt. No. 958,874; May 24; Sp. p. 5371; Gaz. vol. 154; p. 901.
Loom. R. C. Snow. No. 959,174; May 24; Sp. p. 5991; Gaz. vol. 154; p. 1002.
Loom. R. H. H. Hunt. No. 960,019; May 31; Sp. p. 7797; Gaz. vol. 154; p. 1312.
Loom. A. J. Chevrette. No. 960,820; June 7; Sp. p. 1176; Gaz. vol. 155; p. 196.
Loom. J. C. Williams and E. J. Cotter. No. 963,100; July 5; Sp. p. 170; Gaz. vol. 156; p. 26.
Loom. E. H. Ryon. No. 966,402; Aug. 2; Sp. p. 1150; Gaz. vol. 157; p. 186.
Loom. B. F. McGuiness. No. 966,466; Aug. 9; Sp. p. 1315; Gaz. vol. 157; p. 235.
Loom. F. Ott. No. 971,632; Oct. 4; Sp. p. 259; Gaz. vol. 159; p. 46.
Loom. J. Priborsky. No. 977,898; Dec. 6; Sp. p. 1036; Gaz. vol. 161; p. 165.
Loom. A. B. Weissenborn. No. 978,248; Dec. 13; Sp. p. 1801; Gaz. vol. 161; p. 316.
Loom. J. Warburton and A. Gardiner. No. 979,114; Dec. 20; Sp. p. 3694; Gaz. vol. 161; p. 640
Loom. M. L. Stone. No. 979,718; Dec. 27; Sp. p. 4959; Gaz. vol. 161; p. 869.
Loom, Automatic filling-replenishing. O. Janelle. No. 951,949; Mar. 15; Sp. p. 3032; Gaz. vol. 152; p. 549.
Loom, Automatic filling-replenishing. W. R. Widdup. No. 967,282; Aug. 16; Sp. p. 3100; Gaz. vol. 157; p. 537.
Loom, Automatic weft-replenishing. C. F. Roper. No. 964,557; July 19; Sp. p. 3344; Gaz. vol. 156; p. 572.
Loom, Automatic weft-replenishing. E. S. Stimpson. No. 964,580; July 19; Sp. p. 3397; Gaz. vol. 156; p. 580.
Loom, Automatic weft-replenishing. M. L. Stone. No. 964,582; July 19; Sp. p. 3402; Gaz. vol. 156; p. 581.
Loom, Automatic weft-replenishing. A. E. Rhoades. No. 972,918; Oct. 18; Sp. p. 3108; Gaz. vol. 159; p. 544.
Loom, Automatic weft-replenishing. E. S. Stimpson. No. 972,942; Oct. 18; Sp. p. 3169; Gaz. vol. 159; p. 552.
Loom-bobbin. J. P. Chatel. No. 976,120; Nov. 15; Sp. p. 4437; Gaz. vol. 160; p. 752.
Loom, Box-. W. J. Lutton. No. 953,275; Mar. 29; Sp. p. 5804; Gaz. vol. 152; p. 1049.
Loom braking device. A. E. Healey. No. 950,917; Mar. 1; Sp. p. 953; Gaz. vol. 152; p. 152.
Loom, Circular. A. Petersen. No. 951,449; Mar. 8; Sp. p. 2005; Gaz. vol. 152; p. 349.
Loom, Circular. A. Petersen. No. 951,450; Mar. 8; Sp. p. 2011; Gaz. vol. 152; p. 349.
Loom, Circular. A. Petersen. No. 951,451; Mar. 8; Sp. p. 2018; Gaz. vol. 152; p. 350.
Loom connecting-rod and lubricating device. W. P. Evans. No. 945,841; Jan. 11; Sp. p. 1875; Gaz. vol. 150; p. 311.
Loom-dobby. K. Kuttruff and J. Frefel. No. 949,238; Feb. 15; Sp. p. 3052; Gaz. vol. 151; p. 540.
Loom-dobby. W. H. Selley. No. 955,559; Apr. 19; Sp. p. 4009; Gaz. vol. 153; p. 702.
Loom-dobby. W. Kahre. No. 971,846; Oct. 4; Sp. p. 703; Gaz. vol. 159; p. 124.
Loom embroidery attachment, Weaving-. L. Veyron. No. 960,741; June 7; Sp. p. 1013; Gaz. vol. 155; p. 171.
Loom filling-feeder, Filling-replenishing-. E. S. Stimpson. No. 966,615; Aug. 9; Sp. p. 1671; Gaz. vol. 157; p. 286.
Loom filling-feeler. J. Robinson. No. 970,644; Sept. 20; Sp. p. 3224; Gaz. vol. 158; p. 555.
Loom, Filling-replenishing. E. S. Stimpson. No. 953,185; Mar. 29; Sp. p. 5612; Gaz. vol. 152; p. 1020.
Loom, Filling-replenishing. J. Northrop. No. 956,726; May 3; Sp. p. 486; Gaz. vol. 154; p. 78.
Loom, Filling-replenishing. J. Northrop. No. 973,131; Oct. 18; Sp. p. 3569; Gaz. vol. 159; p. 616.
Loom, Filling-replenishing. W. F. Draper. No. 973,265; Oct. 18; Sp. p. 3873; Gaz. vol. 159; p. 663.
Loom filling-replenishing mechanism. J. Northrop. No. 973,127; Oct. 18; Sp. p. 3551; Gaz. vol. 159; p. 615.
Loom for manufacturing terry fabrics. G. Kratky. No. 961,866; June 21; Sp. p. 3393; Gaz. vol. 155; p. 600.
Loom for weaving bags. A. L. Michael. No. 953,632; Mar. 29; Sp. p. 6564; Gaz. vol. 152; p. 1172.
Loom for weaving double-pile fabrics. G. Zimmermann. No. 962,286; June 21; Sp. p. 4297; Gaz. vol. 155; p. 742.
Loom for weaving oriental and other knot-stitch carpets. C. and A. Renard. No. 969,565; Sept. 6; Sp. p. 889; Gaz. vol. 158; p. 141.
Loom for weaving pile fabric. L. H. Hartley. No. 960,171; May 31; Sp. p. 8102; Gaz. vol. 154; p. 1363.
Loom for weaving pile fabrics, Needle-. J. C. Brooks. No. 971,355; Sept. 27; Sp. p. 4694; Gaz. vol. 158; p. 821.
Loom for weaving short-weft fabric. H. E. Rathbun. No. 971,072; Sept. 27; Sp. p. 4125; Gaz. vol. 158; p. 729.
Loom for weaving, Shuttleless. E. Smith. No. 948,945; Feb. 8; Sp. p. 2442; Gaz. vol. 151; p. 416.
Loom for weaving tapes, ribbons, and similar fabrics. A. E. Stroud. No. 979,594; Dec. 27; Sp. p. 4705; Gaz. vol. 161; p. 826.
Loom for weaving textile fabrics, Power-. L. E. Salisbury. No. 955,211; Apr. 19; Sp. p. 3272; Gaz. vol. 153; p. 586.
Loom for weaving tufted pile fabrics. R. Simpson. No. 947,765; Jan. 25; Sp. p. 6097; Gaz. vol. 150; p. 1016.
Loom fork-grid clearer. M. J. Armstead. No. 973,741; Oct. 25; Sp. p. 4887; Gaz. vol. 159; p. 849.
Loom friction let-off. H. Duval. No. 966,892; Aug. 9; Sp. p. 2299; Gaz. vol. 157; p. 377.
Loom, Haircloth-. G. S. Cox. No. 948,370; Feb. 8; Sp. p. 1232; Gaz. vol. 151; p. 224.
Loom, Hand-. M. P. and D. Todd. No. 975,179; Nov. 8; Sp. p. 2500; Gaz. vol. 160; p. 404.
Loom harness-frame. H. W. Hakes. No. 968,847; Aug. 30; Sp. p. 6423; Gaz. vol. 157; p. 1119.
Loom harness-holding device. W. G. Shull. No. 955,365; Apr. 19; Sp. p. 3605; Gaz. vol. 153; p. 636.
Loom harness mechanism. L. S. Burbank. No. 972,810; Oct. 18; Sp. p. 2816; Gaz. vol. 159; p. 503.
Loom harness stop-motion. L. H. Holcomb. No. 966,443; Aug. 9; Sp. p. 1263; Gaz. vol. 157; p. 227.
Loom harness stop-motion. G. E. Whitehead. No. 966,725; Aug. 9; Sp. p. 1909; Gaz. vol. 157; p. 323.
Loom jacquard mechanism. W. Pearsall. No. 976,909; Nov. 29; Sp. p. 6221; Gaz. vol. 160; p. 1071.
Loom let-off mechanism. E. R. Holmes and R. E. Valentine. No. 953,664; Mar. 29; Sp. p. 6635; Gaz. vol. 152; p. 1184.
Loom let-off mechanism. A. E. Rhoades. No. 954,648; Apr. 12; Sp. p. 2044; Gaz. vol. 153; p. 360.
Loom let-off mechanism. J. V. Cunniff. No. 973,344; Oct. 18; Sp. p. 4038; Gaz. vol. 159; p. 691.
Loom let-off mechanism, Narrow-ware-. G. W. Kuenneth. No. 968,367; Aug. 23; Sp. p. 5389; Gaz. vol. 157; p. 930.
Loom lug-strap. W. H. Dismuke and T. C. Stewart. No. 966,667; Aug. 9; Sp. p. 1775; Gaz. vol. 157; p. 303.
Loom, Narrow-ware or ribbon. E. R. Holmes. No. 958,703; May 17; Sp. p. 4952; Gaz. vol. 154; p. 814.
Loom, Needle-. C. Vorwerk. No. 953,770; Apr. 5; Sp. p. 176; Gaz. vol. 153; p. 32.
Loom, Needle-. J. C. Brooks. No. 971,487; Sept. 27; Sp. p. 4931; Gaz. vol. 158; p. 863.
Loom pattern mechanism. J. T. Cyr. No. 960,214; May 31; Sp. p. 8190; Gaz. vol. 154; p. 1379.
Loom picker-check. S. Toyoda. No. 962,802; June 28; Sp. p. 5416; Gaz. vol. 155; p. 946.
Loom picker-check-strap holder. M. L. Stone. No. 972,944; Oct. 18; Sp. p. 3177; Gaz. vol. 159; p. 553.
Loom picker mechanism. D. Thibeault. No. 976,009; Nov. 15; Sp. p. 4216; Gaz. vol. 160; p. 714.

Alphabetical list of inventions—Continued.

Loom picker-spindle lubricator. T. and E. G. Ashworth. No. 955,572; Apr. 19; Sp. p. 4030; Gaz. vol. 153; p. 707.
Loom picker-stick check. S. D. Eubanks. No. 957,047; May 3; Sp. p. 1179; Gaz. vol. 154; p. 187.
Loom picker-strap. N. Lemaire. No. 952,533; Mar. 22; Sp. p. 4198; Gaz. vol. 152; p. 771.
Loom picking-motion, Vertical-. R. Abell. No. 957,725; May 10; Sp. p. 2593; Gaz. vol. 154; p. 449.
Loom, Pile-fabric. J. Buckler. No. 970,463; Sept. 20; Sp. p. 2812; Gaz. vol. 158; p. 492.
Loom protector mechanism. C. Lefebre. No. 949,829; Feb. 22; Sp. p. 4288; Gaz. vol. 151; p. 773.
Loom rack adjustment. S. Kendrick. No. 949,579; Feb. 15; Sp. p. 3769; Gaz. vol. 151; p. 655.
Loom rack, Narrow-ware-. W. Wattie. No. 952,159; Mar. 15; Sp. p. 3429; Gaz. vol. 152; p. 616.
Loom shedding mechanism. A. A. Gordon, Jr. No. 954,181; Apr. 5; Sp. p. 1027; Gaz. vol. 153; p. 174.
Loom shedding mechanism. P. Labonte. No. 956,980; May 3; Sp. p. 1052; Gaz. vol. 154; p. 165.
Loom shedding mechanism. A. A. Gordon, Jr. No. 966,439; Aug. 9; Sp. p. 1243; Gaz. vol. 157; p. 225.
Loom-shuttle. D. H. Beaird. No. 947,523; Jan. 25; Sp. p. 5634; Gaz. vol. 150; p. 936.
Loom-shuttle. C. Rafferty. No. 955,548; Apr. 19; Sp. p. 3985; Gaz. vol. 153; p. 699.
Loom-shuttle. J. V. Cunniff and C. Rafferty. No. 955,583; Apr. 19; Sp. p. 4049; Gaz. vol. 153; p. 711.
Loom-shuttle. J. Johnston. No. 964,872; July 19; Sp. p. 4092; Gaz. vol. 156; p. 682.
Loom-shuttle. H. A. Titus. No. 966,487; Aug. 9; Sp. p. 1371; Gaz. vol. 157; p. 242.
Loom-shuttle. H. M. Brown. No. 967,606; Aug. 16; Sp. p. 3772; Gaz. vol. 157; p. 648.
Loom-shuttle. W. F. Cavanagh. No. 968,326; Aug. 23; Sp. p. 5311; Gaz. vol. 157; p. 915.
Loom-shuttle. G. A. Draper. No. 968,647; Aug. 30; Sp. p. 5985; Gaz. vol. 157; p. 1053.
Loom-shuttle. I. Snow and G. Stubbings. No. 969,912; Sept. 13; Sp. p. 1658; Gaz. vol. 158; p. 286.
Loom-shuttle. F. H. Stetson. No. 970,763; Sept. 20; Sp. p. 3487; Gaz. vol. 158; p. 597.
Loom-shuttle. J. La Palme. No. 975,051; Nov. 8; Sp. p. 2216; Gaz. vol. 160; p. 360.
Loom-shuttle. C. Rafferty. No. 977,840; Dec. 6; Sp. p. 912; Gaz. vol. 161; p. 144.
Loom shuttle-binder. A. A. Gordon. No. 958,487; May 17; Sp. p. 4539; Gaz. vol. 154; p. 744.
Loom shuttle-box motion. A. A. Gordon, Jr. No. 949,355; Feb. 15; Sp. p. 3313; Gaz. vol. 151; p. 580.
Loom shuttle-changing mechanism. M. and R. Lemarchand and V. Montet. No. 950,933; Mar. 1; Sp. p. 984; Gaz. vol. 152; p. 158.
Loom shuttle-changing mechanism. O. Cosserat. No. 953,779; Apr. 5; Sp. p. 190; Gaz. vol. 153; p. 35.
Loom shuttle, Cotton-. V. Levèque. No. 947,830; Feb. 1; Sp. p. 87; Gaz. vol. 151; p. 18.
Loom shuttle, Haircloth-. G. S. Cox. No. 948,415; Feb. 8; Sp. p. 1340; Gaz. vol. 151; p. 239.
Loom-shuttle, Hand-threading. H. L. Litchfield. No. 978,462; Dec. 13; Sp. p. 2253; Gaz. vol. 161; p. 390.
Loom shuttle-race. E. Stutz. No. 960,433; June 7; Sp. p. 392; Gaz. vol. 155; p. 65.
Loom shuttle-spindle. H. L. Litchfield. No. 970,516; Sept. 20; Sp. p. 2931; Gaz. vol. 158; p. 511.
Loom shuttle, Weft-replenishing-. E. H. Ryon. No. 951,488; Mar. 8; Sp. p. 2097; Gaz. vol. 152; p. 363.
Loom stop-motion. P. E. Provost. No. 949,365; Feb. 15; Sp. p. 3329; Gaz. vol. 151; p. 583.
Loom stop-motion. A. A. Gordon, Jr. No. 950,910; Mar. 1; Sp. p. 942; Gaz. vol. 152; p. 150.
Loom stop-motion. H. W. Williams. No. 955,030; Apr. 12; Sp. p. 2909; Gaz. vol. 153; p. 492.
Loom stop-motion. C. D. Lanning. No. 976,378; Nov. 22; Sp. p. 5087; Gaz. vol. 160; p. 863.
Loom stopping mechanism. O. A. Sawyer. No. 968,083; Aug. 23; Sp. p. 4779; Gaz. vol. 157; p. 831.
Loom-strap. E. Poole. No. 972,641; Oct. 11; Sp. p. 2475; Gaz. vol. 159; p. 421.
Loom take-up mechanism. A. E. Rhoades. No. 948,024; Feb. 1; Sp. p. 507; Gaz. vol. 151; p. 82.
Loom take-up mechanism. B. F. McGuiness. No. 954,127; Apr. 5; Sp. p. 891; Gaz. vol. 153; p. 155.
Loom take-up motion. W. H. Clegg. No. 958,597; May 17; Sp. p. 4749; Gaz. vol. 154; p. 780.
Loom-temple. J. Northrop. No. 956,725; May 3; Sp. p. 482; Gaz. vol. 154; p. 78.
Loom temple-holding device. C. A. Littlefield. No. 979,774; Dec. 27; Sp. p. 5092; Gaz. vol. 161; p. 887.
Loom thin-place preventer. J. Northrop. No. 973,129; Oct. 18; Sp. p. 3562; Gaz. vol. 159; p. 615.
Loom thread-parting mechanism. J. Marcure. No. 979,779; Dec. 27; Sp. p. 5104; Gaz. vol. 161; p. 889.
Loom, Tufted-fabric. J. A. Clark. No. 960,824; June 7; Sp. p. 1183; Gaz. vol. 155; p. 197.
Loom warp-beam. J. A. Bangle and S. R. Hunter. No. 952,226; Mar. 15; Sp. p. 3561; Gaz. vol. 152; p. 640.
Loom warp-beam. J. A. Bangle and S. R. Hunter. No. 952,227; Mar. 15; Sp. p. 3562; Gaz. vol. 152; p. 640.
Loom warp stop mechanism. C. D. Lanning. No. 976,377; Nov. 22; Sp. p. 5083; Gaz. vol. 160; p. 863.
Loom warp stop mechanism. J. and H. Wright. No. 978,345; Dec. 13; Sp. p. 2013; Gaz. vol. 161; p. 350.
Loom warp stop-motion. J. Regan. No. 951,487; Mar. 8; Sp. p. 2095; Gaz. vol. 152; p. 362.
Loom weft-controller, Automatic-. W. D. Faulkner. No. 968,649; Aug. 30; Sp. p. 5990; Gaz. vol. 157; p. 1053.
Loom, Weft-replenishing. H. Wyman. No. 948,568; Feb. 8; Sp. p. 1664; Gaz. vol. 151; p. 290.
Loom, Weft-replenishing. S. S. Jackson. No. 951,246; Mar. 8; Sp. p. 1574; Gaz. vol. 152; p. 283.
Loom, Weft-replenishing. E. H. Ryon. No. 951,659; Mar. 8; Sp. p. 2432; Gaz. vol. 152; p. 420.
Loom, Weft-replenishing. E. W. Barrett. No. 952,498; Mar. 22; Sp. p. 4121; Gaz. vol. 152; p. 759.
Loom, Weft-replenishing. A. A. Gordon, Jr. No. 959,132; May 24; Sp. p. 5893; Gaz. vol. 154; p. 987.
Loom, Weft-replenishing. F. E. Ashton. No. 961,668; June 14; Sp. p. 2947; Gaz. vol. 155; p. 509.
Loom, Weft-replenishing. E. H. Ryon. No. 972,722; Oct. 11; Sp. p. 2640; Gaz. vol. 159; p. 448.
Loom, Weft-replenishing. J. G. King. No. 972,872; Oct. 18; Sp. p. 2967; Gaz. vol. 159; p. 525.
Loom, Weft-replenishing. E. D. Osgood and A. E. Rhoades. No. 972,904; Oct. 18; Sp. p. 3060; Gaz. vol. 159; p. 539.
Loom weft-replenishing mechanism. J. C. A. Wenning. No. 959,036; May 24; Sp. p. 5685; Gaz. vol. 154; p. 955.
Loom weft-stop-motion means. L. E. Salisbury. No. 955,212; Apr. 19; Sp. p. 3275; Gaz. vol. 153; p. 586.
Loom weft-supplying mechanism. E. S. Stimpson. No. 972,943; Oct. 18; Sp. p. 3174; Gaz. vol. 159; p. 552.
Looms, Apparatus for operating picker-motion for. C. Brehio. No. 952,096; Mar. 15; Sp. p. 3303; Gaz. vol. 152; p. 595.
Looms, Bobbin-stripper for weft-replenishing. F. W. Moore. (Reissue.) No. 13,119; May 31; Sp. p. 8253; Gaz. vol. 154; p. 1389.
Looms, Change-controlling mechanism for jacquards employed in automatic weft-replenishing. D. M. Hollins. No. 970,502; Sept. 20; Sp. p. 2895; Gaz. vol. 158; p. 506.
Looms, Cloth-beam for. J. Northrop. No. 973,134; Oct. 18; Sp. p. 3576; Gaz. vol. 159; p. 617.
Looms, Cloth-guiding means for. E. G. Gustafson and T. Duquette. No. 953,826; Apr. 5; Sp. p. 289; Gaz. vol. 153; p. 51.
Looms, Compass-board for. K. and J. B. Engsberg. No. 956,321; Apr. 26; Sp. p. 5723; Gaz. vol. 153; p. 996.
Looms, Contrivance for the tension of weft-wire with wire-gage. O. Eilhauer. No. 964,150; July 12; Sp. p. 2469; Gaz. vol. 156; p. 405.
Looms, Drop-shuttle-box mechanism of. E. H. Ballou. No. 958,688; May 17; Sp. p. 4926; Gaz. vol. 154; p. 809.
Looms, Electromechanical warp stop-motion for. J. F. Dustin. No. 974,557; Nov. 1; Sp. p. 1111; Gaz. vol. 160; p. 168.
Looms, Evener-motion for tufted-fabric. J. T. Cyr. No. 970,613; Sept. 20; Sp. p. 3125; Gaz. vol. 158; p. 544.
Looms, False reed for. J. C. Kaemfer. No. 977,313; Nov. 29; Sp. p. 7117; Gaz. vol. 160; p. 1211.
Looms, Filling feeder or magazine for automatic. S. N. Paquette. No. 962,581; June 28; Sp. p. 4963; Gaz. vol. 155; p. 869.
Looms, Filling-feeler for. G. A. Sontag. No. 968,708; Aug. 30; Sp. p. 6149; Gaz. vol. 157; p. 1073.
Looms, Filling-supplying mechanism for automatic filling-replenishing. C. A. Littlefield. No. 972,881; Oct. 18; Sp. p. 2988; Gaz. vol. 159; p. 529.
Looms for weaving, Dobby for. E. Hollingworth. No. 964,256; July 12; Sp. p. 2669; Gaz. vol. 156; p. 440.
Looms, Heald and shuttle-box operating mechanism of. D. Nichols. No. 978,329; Dec. 13; Sp. p. 1983; Gaz. vol. 161; p. 345.
Looms, Jacquard mechanism for. H. Deering. No. 953,379; Mar. 29; Sp. p. 6035; Gaz. vol. 152; p. 1085.
Looms, Lay for narrow-ware. W. Wattie. No. 946,295; Jan. 11; Sp. p. 2827; Gaz. vol. 150; p. 470.
Looms, Lay for narrow-ware. E. R. Holmes. No. 956,854; May 3; Sp. p. 778; Gaz. vol. 154; p. 123.
Looms, Lay for narrow-ware. W. Wattie. No. 962,183; June 21; Sp. p. 4088; Gaz. vol. 155; p. 709.
Looms, Means for facilitating warp change in. W. McCaslin. No. 976,273; Nov. 22; Sp. p. 4858; Gaz. vol. 160; p. 829.
Looms, Pick-finder device for. S. S. Jackson. No. 945,722; Jan. 4; Sp. p. 1541; Gaz. vol. 150; p. 239.
Looms, Pick-matcher for automatic weft-replenishing. P. Day. No. 964,497; July 19; Sp. p. 3176; Gaz. vol. 156; p. 551.
Looms, Pick-matcher for automatic weft-replenishing. A. E. Rhoades. No. 964,555; July 19; Sp. p. 3336; Gaz. vol. 156; p. 570.
Looms, Pick-matching mechanism for automatic weft-replenishing. C. H. Draper. No. 964,501; July 19; Sp. p. 3194; Gaz. vol. 156; p. 553.
Looms, Pneumatic selector for short-weft. H. E. Rathbun. No. 978,645; Dec. 13; Sp. p. 2676; Gaz. vol. 161; p. 455.
Looms, Smash-preventer for. W. Lonzo. No. 947,003; Jan. 18; Sp. p. 4458; Gaz. vol. 150; p. 734.
Looms, Spool-changing apparatus for. A. G. Koechlin. No. 971,541; Oct. 4; Sp. p. 67; Gaz. vol. 159; p. 13.

Looms, Stop-motion device for automatic reshuttling-. J. Rostron. No. 977,329; Nov. 29; Sp. p. 7149; Gaz. vol. 160; p. 1217.
Looms, Stretching and equalizing roll for. C. Kromer. No. 951,402; Mar. 8; Sp. p. 1924; Gaz. vol. 152; p. 334.
Looms, Tension device for take-up rolls of. J. Smith. No. 955,609; Apr. 19; Sp. p. 4138; Gaz. vol. 153; p. 720.
Looms, Thin-place-detecting means for. A. E. Rhoades. No. 956,172; Apr. 26; Sp. p. 5387; Gaz. vol. 153; p. 945.
Looms, Thin-place-detecting mechanism for. S. D. Eubanks. No. 956,574; May 3; Sp. p. 149; Gaz. vol. 154; p. 25.
Looms, Thin-place-detecting mechanism for. W. C. Trombly. No. 959,654; May 31; Sp. p. 6974; Gaz. vol. 154; p. 1187.
Looms, Thin-place detector for filling-replenishing. L. Dunaway. No. 972,833; Oct. 18; Sp. p. 2873; Gaz. vol. 159; p. 512.
Looms, Thread-cutting device for automatic weft-replenishing. J. Martinek. No. 972,118; Oct. 4; Sp. p. 1301; Gaz. vol. 159; p. 220.
Looms, Thread-cutting mechanism for. A. J. Chevrette. No. 955,581; Apr. 19; Sp. p. 4044; Gaz. vol. 153; p. 710.
Looms, Thread-cutting temple for weft-replenishing. A. A. Gordon, Jr. No. 961,439; June 14; Sp. p. 2465; Gaz. vol. 155; p. 434.
Looms, Weft-carrier for needle-. J. P. Humphries. No. 949,706; Feb. 15; Sp. p. 4002; Gaz. vol. 151; p. 696.
Looms, Weft-replenishing apparatus for weaving-. L. Langénieux. No. 960,965; June 7; Sp. p. 1448; Gaz. vol. 155; p. 243.
Looms, Weft-replenishing mechanism for weft-replenishing. H. Wyman. No. 970,591; Sept. 20; Sp. p. 3078; Gaz. vol. 158; p. 537.
Looms, Wire motion for. F. A. Whitmore. No. 960,211; May 31; Sp. p. 8187; Gaz. vol. 154; p. 1378.
Loop-banding machine. A. E. Rhoades. No. 953,293; Mar. 29; Sp. p. 5838; Gaz. vol. 152; p. 1055.
Loop-setting machine. W. A. McAllister. No. 958,968; May 24; Sp. p. 5552; Gaz. vol. 154; p. 933.
Loss-preventing device. S. L. Kimmel. No. 974,499; Nov. 1; Sp. p. 975; Gaz. vol. 160; p. 145.
Low-quad molds, Control mechanism for. J. S. Bancroft and M. C. Indahl. No. 962,412; June 28; Sp. p. 4572; Gaz. vol. 155; p. 809.
Lozenge-making machine. F. A. Meier. No. 963,916; July 12; Sp. p. 1979; Gaz. vol. 156; p. 325.
Lozenge making, stamping, and cutting apparatus. J. Trenor. No. 952,965; Mar. 22; Sp. p. 5117; Gaz. vol. 152; p. 919.
Lubricant. E. G. Acheson. No. 966,636; Aug. 9; Sp. p. 1717; Gaz. vol. 157; p. 293.
Lubricant-container. A. Němeček. No. 976,825; Nov. 22; Sp. p. 6020; Gaz. vol. 160; p. 1017.
Lubricant-retainer. J. E. Thebaud. No. 958,193; May 17; Sp. p. 3799; Gaz. vol. 154; p. 642.
Lubricant-separator. T. J. Waters. No. 945,427; Jan. 4; Sp. p. 914; Gaz. vol. 150; p. 142.
Lubricating and disengaging cutting-tools, Means for. C. H. A. F. L. Ross. No. 971,410; Sept. 27; Sp. p. 4790; Gaz. vol. 158; p. 838.
Lubricating axle-boxes and the like, Means for. A. J. Smith. No. 948,283; Feb. 1; Sp. p. 1029; Gaz. vol. 151; p. 169.
Lubricating bearings, Means for. W. Holtorp. No. 974,966; Nov. 8; Sp. p. 2033; Gaz. vol. 160; p. 332.
Lubricating-cups, Locking device for. K. M. Anderson. No. 980,043; Dec. 27; Sp. p. 5677; Gaz. vol. 161; p. 977.
Lubricating device. C. D. Parnham. No. 945,474; Jan. 4; Sp. p. 1005; Gaz. vol. 150; p. 157.
Lubricating device. E. Hutton. No. 948,224; Feb. 1; Sp. p. 911; Gaz. vol. 151; p. 149.
Lubricating device. T. G. Kincaid. No. 960,341; June 7; Sp. p. 209; Gaz. vol. 155; p. 36.
Lubricating device. L. K. Smith. No. 972,659; Oct. 11; Sp. p. 2510; Gaz. vol. 159; p. 426.
Lubricating device. H. F. and H. G. Weinland and G. H. Ainge. No. 978,087; Dec. 6; Sp. p. 1431; Gaz. vol. 161; p. 231.
Lubricating hydraulic-elevator rams, Apparatus for. W. Weston and J. G. Orth. No. 950,268; Feb. 22; Sp. p. 5289; Gaz. vol. 151; p. 927.
Lubricating means for axles, bearings, and the like. W. J. Greening. No. 962,955; June 28; Sp. p. 5689; Gaz. vol. 155; p. 997.
Lubricating mechanism. W. L. Morris. No. 947,449; Jan. 25; Sp. p. 5437; Gaz. vol. 150; p. 910.
Lubrication system. C. A. J. Albert. No. 977,255; Nov. 29; Sp. p. 7012; Gaz. vol. 160; p. 1192.
Lubrication system, Splash. C. N. Teeter. No. 946,923; Jan. 18; Sp. p. 4311; Gaz. vol. 150; p. 707.
Lubricator: *See* Automatic lubricator; Automatic-discharge lubricator; Axle-lubricator; Axle-box lubricator; Cable-lubricator; Cylinder-lubricator; Drop-feed lubricator; Elevator-guide lubricator; Force-feed lubricator; Grease lubricator; Journal-lubricator; Loom picker-spindle lubricator; Saw-lubricator; Sight-feed lubricator; Wheel-lubricator.
Lubricator. J. Pedersĕn. No. 945,585; Jan. 4; Sp. p. 1243; Gaz. vol. 150; p. 193.
Lubricator. A. J. Krick and C. E. Thompson. No. 946,374; Jan. 11; Sp. p. 3093; Gaz. vol. 150; p. 496.
Lubricator. J. B. and J. G. Purvis. No. 946,580; Jan. 18; Sp. p. 3509; Gaz. vol. 150; p. 591.
Lubricator. P. Chilimidos. No. 947,568; Jan. 25; Sp. p. 5727; Gaz. vol. 150; p. 951.
Lubricator. F. M. Cannon. No. 951,234; Mar. 8; Sp. p. 1554; Gaz. vol. 152; p. 279.
Lubricator. O. Hajek. No. 953,609; Mar. 29; Sp. p. 6523; Gaz. vol. 152; p. 1165.
Lubricator. C. J. Van Doren. No. 954,600; Apr. 12; Sp. p. 1932; Gaz. vol. 153; p. 343.
Lubricator. A. Mlitz. No. 955,420; Apr. 19; Sp. p. 3725; Gaz. vol. 153; p. 654.
Lubricator. M. G. Melvin. No. 955,652; Apr. 19; Sp. p. 4239; Gaz. vol. 153; p. 734.
Lubricator. J. H. Searle. No. 956,436; Apr. 26; Sp. p. 5960; Gaz. vol. 153; p. 1035.
Lubricator. P. J. Sweeney. No. 960,730; June 7; Sp. p. 997; Gaz. vol. 155; p. 167.
Lubricator. L. V. Hood. No. 963,441; July 5; Sp. p. 962; Gaz. vol. 156; p. 144.
Lubricator. O. Hajek. No. 963,547; July 5; Sp. p. 1171; Gaz. vol. 156; p. 179.
Lubricator. G. E. Ledgerwood. No. 964,032; July 12; Sp. p. 2218; Gaz. vol. 156; p. 365.
Lubricator. A. J. Oaks. No. 964,450; July 12; Sp. p. 3062; Gaz. vol. 156; p. 503.
Lubricator. T. E. B. Brown and J. A. Ross. No. 965,277; July 26; Sp. p. 4908; Gaz. vol. 156; p. 847.
Lubricator. J. Huverstuhl. No. 969,699; Sept. 6; Sp. p. 1153; Gaz. vol. 158; p. 187.
Lubricator. L. J. Maloy. No. 972,701; Oct. 11; Sp. p. 2581; Gaz. vol. 159; p. 440.
Lubricator. A. D. Williams. No. 974,222; Nov. 1; Sp. p. 262; Gaz. vol. 160; p. 44.
Lubricator. F. C. von Haxthausen. No. 976,076; Nov. 15; Sp. p. 4336; Gaz. vol. 160; p. 736.
Lubricator. J. A. Coppers and E. E. Booth. No. 976,637; Nov. 22; Sp. p. 5638; Gaz. vol. 160; p. 953.
Lubricator. C. R. Briggs. No. 978,819; Dec. 13; Sp. p. 3001; Gaz. vol. 161; p. 509.
Lubricator driving mechanism. A. S. Krotz. No. 969,290; Sept. 6; Sp. p. 294; Gaz. vol. 158; p. 48.
Lubricator for separating devices. W. W. Brower. No. 950,201; Feb. 22; Sp. p. 5147; Gaz. vol. 151; p. 903.
Lubricator system. W. S. Harley. No. 979,484; Dec. 27; Sp. p. 4454; Gaz. vol. 161; p. 787.
Lubricators, Index-glass for. F. W. Edwards. No. 953,675; Mar. 29; Sp. p. 6668; Gaz. vol. 152; p. 1188.
Lubricators, Sight-feed for. F. W. Edwards. No. 952,515; Mar. 22; Sp. p. 4152; Gaz. vol. 152; p. 764.
Lubricators, Sight-feed for. F. W. Edwards. No. 952,611; Mar. 22; Sp. p. 4375; Gaz. vol. 152; p. 799.
Lug-strap-supporting means. A. Derosier, Jr. No. 949,794; Feb. 22; Sp. p. 4212; Gaz. vol. 151; p. 760.
Luggage-carrier. J. H. Tabler. No. 946,850; Jan. 18; Sp. p. 4126; Gaz. vol. 150; p. 683.
Lumber and veneer drier, Thin-. J. A. McDougall. No. 954,041; Apr. 5; Sp. p. 719; Gaz. vol. 153; p. 126.
Lumber-dipping device. W. L. Baten. No. 966,988; Aug. 9; Sp. p. 2494; Gaz. vol. 157; p. 410.
Lumber edger, trimmer, and lath mill. A. S. Froslid. No. 980,147; Dec. 27; Sp. p. 5923; Gaz. vol. 161; p. 1011.
Lumber-finishing machine. F. G. Price. No. 967,054; Aug. 9; Sp. p. 2636; Gaz. vol. 157; p. 433.
Lumber-kiln. J. McLaughlin. No. 973,872; Oct. 25; Sp. p. 5161; Gaz. vol. 159; p. 896.
Lumber-load protector. F. E. Eastabrook. No. 968,455; Aug. 23; Sp. p. 5562; Gaz. vol. 157; p. 959.
Lumber, Machine for dovetailing and joining. B. A. Linderman. No. 976,192; Nov. 22; Sp. p. 4640; Gaz. vol. 160; p. 799.
Lumber-piler. P. H. Cazier. No. 977,434; Dec. 6; Sp. p. 14; Gaz. vol. 161; p. 6.
Lumber-piler. H. E. Harper. No. 979,293; Dec. 20; Sp. p. 4080; Gaz. vol. 161; p. 702.
Lumber-register. R. H. Mellown. No. 949,127; Feb. 15; Sp. p. 2842; Gaz. vol. 151; p. 502.
Lumber-sheet, Built-up. G. A. Wright. No. 947,508; Jan. 25; Sp. p. 5611; Gaz. vol. 150; p. 932.
Lumber, Siding. G. V. Cesinger. No. 948,160; Feb. 1; Sp. p. 782; Gaz. vol. 151; p. 129.
Lumber-sorter. M. Moncreiffe. No. 964,670; July 19; Sp. p. 3573; Gaz. vol. 156; p. 612.
Lumber-stacker. C. A. Denison. No. 978,565; Dec. 13; Sp. p. 2497; Gaz. vol. 161; p. 427.
Lunch-box. C. Kukuruda. No. 952,911; Mar. 22; Sp. p. 5011; Gaz. vol. 152; p. 901.
Lunch-box. A. Biró. No. 954,918; Apr. 12; Sp. p. 2694; Gaz. vol. 153; p. 455.
Lunch-box, Picnic. M. E. Ward. No. 967,865; Aug. 16; Sp. p. 4288; Gaz. vol. 157; p. 734.
Lung-tester and detonating device. C. B. Post. No. 955,682; Apr. 19; Sp. p. 4303; Gaz. vol. 153; p. 744.
Luximeter. W. D. Ryan. No. 963,072; July 5; Sp. p. 88; Gaz. vol. 156; p. 17.
Lyes, Purifying waste mercerization-. O. Venter. No. 967,272; Aug. 16; Sp. p. 3084; Gaz. vol. 157; p. 534.
Machine-brake. S. Moore. No. 967,809; Aug. 16; Sp. p. 4172; Gaz. vol. 157; p. 715.

Alphabetical list of inventions—Continued.

Machine-driving means. P. E. Clark. No. 969,601; Sept. 6; Sp. p. 968; Gaz. vol. 158; p. 153.
Machine element. C. A. Carlson. No. 970,791; Sept. 20; Sp. p. 3552; Gaz. vol. 158; p. 607.
Machine-support. A. H. Reid. No. 964,939; July 19; Sp. p. 4222; Gaz. vol. 156; p. 705.
Machine-tool. C. W. Miles. No. 969,388; Sept. 6; Sp. p. 507; Gaz. vol. 158; p. 81.
Machine-tool holder. R. E. Colton. No. 963,746; July 12; Sp. p. 1598; Gaz. vol. 156; p. 268.
Machine-tools, Automatic feeding mechanism for. G. Worton. No. 951,169; Mar. 8; Sp. p. 1427; Gaz. vol. 152; p. 259.
Machine-tools, Back-gear for. W. A. Greaves. No. 945,271; Jan. 4; Sp. p. 552; Gaz. vol. 150; p. 90.
Machine-tools, Feed mechanism for spindles for. H. O. Evans. No. 960,295; June 7; Sp. p. 108; Gaz. vol. 155; p. 22.
Machine-tools, Indicating device for. C. D. Andrew. No. 961,281; June 14; Sp. p. 2124; Gaz. vol. 155; p. 380.
Machine-tools, Spindle-locking mechanism for. A. L. de Leeuw. No. 964,764; July 19; Sp. p. 3880; Gaz. vol. 156; p. 644.
Machine-wrench. E. T. Ladd. No. 977,103; Nov. 29; Sp. p. 6689; Gaz. vol. 160; p. 1139.
Machinery, Bed-plate for. F. Gerb. No. 976,126; Nov. 15; Sp. p. 4457; Gaz. vol. 160; p. 754.
Machinery-brake. H. G. Brown. No. 961,099; June 14; Sp. p. 1740; Gaz. vol. 155; p. 316.
Magazine. G. A. Svanberg. No. 969,574; Sept. 6; Sp. p. 906; Gaz. vol. 158; p. 144.
Magazine, Automatic. J. Sabo. No. 947,476; Jan. 25; Sp. p. 5527; Gaz. vol. 150; p. 920.
Magazine-holder. C. O. Duffy. No. 968,748; Aug. 30; Sp. p. 6228; Gaz. vol. 157; p. 1089.
Magazine-holder. R. F. Haynes. No. 972,531; Oct. 11; Sp. p. 2215; Gaz. vol. 159; p. 383.
Magnesia-granulating machine. U. Di Marco. No. 961,848; June 21; Sp. p. 3338; Gaz. vol. 155; p. 593.
Magnesite, Preparing powdered. J. Leese. No. 968,669; Aug. 30; Sp. p. 6039; Gaz. vol. 157; p. 1060.
Magnet, Alternating-current. A. Simon. No. 969,809; Sept. 13; Sp. p. 1438; Gaz. vol. 158; p. 250.
Magnet controller, Lifting-. J. F. Motz. No. 960,995; June 7; Sp. p. 1526; Gaz. vol. 155; p. 255.
Magnet controller, Lifting-. A. C. Eastwood. No. 961,342; June 14; Sp. p. 2277; Gaz. vol. 155; p. 402.
Magnet for dynamo-electric machines, Field-. E. Mattman. No. 949,082; Feb. 15; Sp. p. 2746; Gaz. vol. 151; p. 488.
Magnet, Lifting-. A. C. Eastwood. No. 950,718; Mar. 1; Sp. p. 560; Gaz. vol. 152; p. 88.
Magnet, Lifting-. C. E. Frederickson. No. 974,047; Oct. 25; Sp. p. 5520; Gaz. vol. 159; p. 957.
Magnet, Lifting-. A. C. Eastwood. No. 978,119; Dec. 6; Sp. p. 1502; Gaz. vol. 161; p. 242.
Magnet, Lifting-. A. C. Eastwood. No. 979,750; Dec. 27; Sp. p. 5053; Gaz. vol. 161; p. 880.
Magnet, Relay-. J. F. McElroy and J. E. Macomber. No. 976,586; Nov. 22; Sp. p. 5540; Gaz. vol. 160; p. 936.
Magnet, Rotary field-. E. Volkers. No. 964,343; July 12; Sp. p. 2853; Gaz. vol. 156; p. 470.
Magnetic blow-out. H. E. White. No. 967,280; Aug. 16; Sp. p. 3098; Gaz. vol. 157; p. 536.
Magnetic blow-out. H. E. White. No. 967,281; Aug. 16; Sp. p. 3099; Gaz. vol. 157; p. 537.
Magnetic brake. C. Shears. No. 971,795; Oct. 4; Sp. p. 594; Gaz. vol. 159; p. 104.
Magnetic materials from other materials or from liquids, Apparatus for separating. A. E. Davies. No. 979,934; Dec. 27; Sp. p. 5444; Gaz. vol. 161; p. 940.
Magnetic separation, Apparatus for electrostatic. H. M. Sutton, W. L. and E. G. Steele. No. 948,599; Feb. 8; Sp. p. 1729; Gaz. vol. 151; p. 300.
Magnetic separator. S. Norton. No. 945,408; Jan. 4; Sp. p. 879; Gaz. vol. 150; p. 136.
Magnetic separator. W. B. Moore. No. 960,668; June 7; Sp. p. 879; Gaz. vol. 155; p. 145.
Magnetic separator. B. E. Wood. No. 971,163; Sept. 27; Sp. p. 4307; Gaz. vol. 158; p. 757.
Magnetic separator. F. O. Schnelle. No. 971,692; Oct. 4; Sp. p. 375; Gaz. vol. 159; p. 66.
Magnetic switch. J. J. Wood. No. 958,788; May 24; Sp. p. 5163; Gaz. vol. 154; p. 870.
Magneto and battery switch for electric igniters, Combined. A. J. Studnicka and C. W. Campbell. No. 957,270; May 10; Sp. p. 1681; Gaz. vol. 154; p. 294.
Magneto-electric generator. F. I. and B. P. Remy. No. 957,714; May 10; Sp. p. 2572; Gaz. vol. 154; p. 445.
Magneto-electric generator. B. P. and F. I. Remy. No. 959,166; May 24; Sp. p. 5975; Gaz. vol. 154; p. 999.
Magneto-electric generator. G. Honold. No. 974,967; Nov. 8; Sp. p. 2034; Gaz. vol. 160; p. 332.
Magneto-electric generator. T. S. Hemenway. No. 980,153; Dec. 27; Sp. p. 5938; Gaz. vol. 161; p. 1014.
Magneto-generator. C. W. Wilson. No. 963,412; July 5; Sp. p. 904; Gaz. vol. 156; p. 133.
Magneto-generator. L. W. Noyes. No. 965,484; July 26; Sp. p. 5361; Gaz. vol. 156; p. 918.
Magneto-generator, High-tension. E. Deniéport. No. 952,561; Mar. 22; Sp. p. 4259; Gaz. vol. 152; p. 781.
Magneto, High-frequency. T. M. Mueller. No. 958,754; May 24; Sp. p. 5072; Gaz. vol. 154; p. 857.
Magneto-interrupter. W. E. Dow. No. 975,842; Nov. 15; Sp. p. 3887; Gaz. vol. 160; p. 656.
Magnetos to operate with two-cylinder gas-engines set V-shaped, Device for timing. T. M. Mueller. No. 964,298; July 12; Sp. p. 2766; Gaz. vol. 156; p. 456.
Magnifying instruments, Eyepiece for. J. N. Arriaga. No. 967,143; Aug. 9; Sp. p. 2827; Gaz. vol. 157; p. 464.
Mail and the like, Overhead carrier for. F. W. Miller. No. 951,959; Mar. 15; Sp. p. 3048; Gaz. vol. 152; p. 551.
Mail-bag. C. E. Lincoln. No. 966,695; Aug. 9; Sp. p. 1831; Gaz. vol. 157; p. 313.
Mail-bag catcher. I. Schreck. No. 947,703; Jan. 25; Sp. p. 5986; Gaz. vol. 150; p. 996.
Mail-bag catcher. J. A. Schinner. No. 950,870; Mar. 1; Sp. p. 863; Gaz. vol. 152; p. 138.
Mail-bag catcher. J. Raugstad. No. 958,537; May 17; Sp. p. 4632; Gaz. vol. 154; p. 761.
Mail-bag catcher. J. A. Follman. No. 963,131; July 5; Sp. p. 268; Gaz. vol. 156; p. 36.
Mail-bag catcher. W. A. Carpenter. No. 976,041; Nov. 15; Sp. p. 4275; Gaz. vol. 160; p. 725.
Mail-bag catcher and deliverer. J. Wood. No. 948,778; Feb. 8; Sp. p. 2124; Gaz. vol. 151; p. 361.
Mail-bag catcher and deliverer. C. H. Anthony. No. 952,861; Mar. 22; Sp. p. 4915; Gaz. vol. 152; p. 885.
Mail-bag catcher and deliverer. G. E. Denison. No. 953,519; Mar. 29; Sp. p. 6331; Gaz. vol. 152; p. 1135.
Mail bag catcher and deliverer. J. Yates. No. 958,572; May 17; Sp. p. 4696; Gaz. vol. 154; p. 772.
Mail-bag catcher and deliverer. G. W. Harlan. No. 963,145; July 5; Sp. p. 306; Gaz. vol. 156; p. 42.
Mail-bag catcher and delivery apparatus. C. B. Buss. No. 956,935; May 3; Sp. p. 938; Gaz. vol. 154; p. 150.
Mail-bag catching and delivering apparatus. J. N. Isenberger. No. 945,395; Jan. 4; Sp. p. 847; Gaz. vol. 150; p. 131.
Mail-bag catching and delivering apparatus. G. W. Pomeroy. No. 947,648; Jan. 25; Sp. p. 5896; Gaz. vol. 150; p. 979.
Mail-bag catching and delivering apparatus. W. H. Storne. No. 950,562; Mar. 1; Sp. p. 214; Gaz. vol. 152; p. 35.
Mail-bag catching and delivering apparatus. G. W. Saylor. No. 955,697; Apr. 19; Sp. p. 4346; Gaz. vol. 153; p. 750.
Mail-bag catching and delivering apparatus. G. W. Saylor. No. 965,753; July 26; Sp. p. 5942; Gaz. vol. 156; p. 1011.
Mail-bag catching and delivering apparatus. H. B. Kyle. No. 969,065; Aug. 30; Sp. p. 6861; Gaz. vol. 157; p. 1194.
Mail-bag catching and delivering apparatus. J. E. Boyle. No. 970,606; Sept. 20; Sp. p. 3114; Gaz. vol. 158; p. 542.
Mail-bag catching and delivering apparatus. I. P. Tidmore. No. 979,723; Dec. 27; Sp. p. 4968; Gaz. vol. 161; p. 870.
Mail-bag catching and delivery apparatus. W. G. Miller. No. 947,117; Jan. 18; Sp. p. 4665; Gaz. vol. 150; p. 770.
Mail-bag collecting and delivering apparatus. W. M. Banks. No. 953,578; Mar. 29; Sp. p. 6458; Gaz. vol. 152; p. 1155.
Mail-bag crane. P. Hanson and S. Matney. No. 946,774; Jan. 18; Sp. p. 3941; Gaz. vol. 150; p. 655.
Mail-bag crane. P. Hanson and S. Matney. No. 977,627; Dec. 6; Sp. p. 473; Gaz. vol. 161; p. 72.
Mail-bag deliverer. M. N. George. No. 948,217; Feb. 1; Sp. p. 895; Gaz. vol. 151; p. 146.
Mail-bag deliverer. M. N. George. No. 964,231; July 12; Sp. p. 2621; Gaz. vol. 156; p. 431.
Mail-bag deliverer. O. Howard. No. 974,489; Nov. 1; Sp. p. 957; Gaz. vol. 160; p. 142.
Mail-bag delivering and catching device. J. McKinley. No. 978,610; Dec. 13; Sp. p. 2602; Gaz. vol. 161; p. 443.
Mail-bag delivery and catching apparatus. W. S. James. No. 973,510; Oct. 25; Sp. p. 4403; Gaz. vol. 159; p. 770.
Mail-bag-delivery apparatus. G. H. Mueller. No. 945,853; Jan. 11; Sp. p. 1898; Gaz. vol. 150; p. 315.
Mail-bag-fork attachment. J. A. Falvey. No. 961,487; June 14; Sp. p. 2579; Gaz. vol. 155; p. 449.
Mail-bag lock. S. Fehnel. No. 948,543; Feb. 8; Sp. p. 1601; Gaz. vol. 151; p. 282.
Mail-bag or the like lock. C. Sismondi. No. 948,555; Feb. 8; Sp. p. 1642; Gaz. vol. 151; p. 286.
Mail-bags and similar articles, Closure for. A. Hormel. No. 948,052; Feb. 1; Sp. p. 571; Gaz. vol. 151; p. 92.
Mail-binder. A. M. Jayne. No. 978,591; Dec. 13; Sp. p. 2560; Gaz. vol. 161; p. 436.
Mail-box. M. Kilian. No. 951,090; Mar. 1; Sp. p. 1269; Gaz. vol. 152; p. 208.
Mail-box. C. G. Pfahler. No. 953,435; Mar. 29; Sp. p. 6151; Gaz. vol. 152; p. 1104.
Mail-box. A. F. Martel. No. 954,037; Apr. 5; Sp. p. 714; Gaz. vol. 153; p. 125.
Mail-box. G. Westelin. No. 955,730; Apr. 19; Sp. p. 4413; Gaz. vol. 153; p. 761.
Mail-box. W. J. Golgert. No. 959,511; May 31; Sp. p. 6693; Gaz. vol. 154; p. 1139.
Mail-box. L. V. Rood. No. 959,885; May 31; Sp. p. 7483; Gaz. vol. 154; p. 1264.

Mail-box. S. C. Cox. No. 960,157; May 31; Sp p. 8075; Gaz. vol. 154; p. 1358.
Mail-box. P. Reynolds. No. 960,583; June 7; Sp. p. 704; Gaz. vol. 155; p. 116.
Mail-box. S. C. Cox. No. 961,212; June 14; Sp. p. 1970; Gaz. vol. 155; p. 356.
Mail-box. A. Rosenberg and E. E. Clark. No. 961,897; June 21; Sp. p. 3444; Gaz. vol. 155; p. 609.
Mail-box. G. Westelin. No. 962,281; June 21; Sp. p. 4291; Gaz. vol. 155; p. 741.
Mail-box. J. E. Shank. No. 963,329; July 5; Sp. p. 738; Gaz. vol. 156; p. 106.
Mail-box. J. H. Mills. No. 964,295; July 12; Sp. p. 2755; Gaz. vol. 156; p. 455.
Mail-box. E. A. Schneider and C. W. Gossom. No. 965,020; July 19; Sp. p. 4380; Gaz. vol. 156; p. 731.
Mail-box. H. E. Carmony. No. 969,038; Aug. 30; Sp. p. 6800; Gaz. vol. 157; p. 1185.
Mail-box. O. J. W. Gleason. No. 969,948; Sept. 13; Sp. p. 1734; Gaz. vol. 158; p. 298.
Mail-box holder. E. U. Lillie. No. 969,965; Sept. 13; Sp. p. 1784; Gaz. vol. 158; p. 303.
Mail-box protector. E. B. Eggleston. No. 969,686; Sept. 6; Sp. p. 1131; Gaz. vol. 158; p. 182.
Mail-box register. J. Baumgartner. No. 973,156; Oct. 18; Sp. p. 3633; Gaz. vol. 159; p. 625.
Mail-box signal. W. E. Harmon. No. 968,151; Aug. 23; Sp. p. 4930; Gaz. vol. 157; p. 854.
Mail-box signal. H. P. Davis. No. 977,602; Dec. 6; Sp. p. 433; Gaz. vol. 161; p. 63.
Mail-box support. H. J. Hanson. No. 949,231; Feb. 15; Sp. p. 3032; Gaz. vol. 151; p. 538.
Mail-box support. H. C. Rogers. No. 979,565; Dec. 27; Sp. p. 4644; Gaz. vol. 161; p. 816.
Mail-box support, Extensible. A. J. Wilfong. No. 970,588; Sept. 20; Sp. p. 3075; Gaz. vol. 158; p. 536.
Mail-boxes, Coin and letter holder for rural. A. H. Griffin and W. A. Kirksey. No. 952,614; Mar. '22; Sp. p. 4382; Gaz. vol. 152; p. 800.
Mail-cabinet. C. M. Hamilton. No. 974,263; Nov. 1; Sp. p. 412; Gaz. vol. 160; p. 60.
Mail-carrier. J. W. White. No. 954,554; Apr. 12; Sp. p. 1831; Gaz. vol. 153; p. 328.
Mail carrier or box. W. T. Buck. No. 977,706; Dec. 6; Sp. p. 651; Gaz. vol. 161; p. 99.
Mail-carrier's box. L. J. Andrews. No. 968,633; Aug. 30; Sp. p. 5951; Gaz. vol. 157; p. 1048.
Mail-cart. W. B. Wherry. No. 974,729; Nov. 1; Sp. p. 1474; Gaz. vol. 160; p. 227.
Mail-catcher. S. G. Staymates. No. 957,581; May 10; Sp. p. 2299; Gaz. vol. 154; p. 399.
Mail catching and delivering apparatus. W. Stetsall. No. 979,587; Dec. 27; Sp. p. 4691; Gaz. vol. 161; p. 824.
Mail catching and delivering device. A. J. Hughes. No. 962,571; June 28; Sp. p. 4943; Gaz. vol. 155; p. 865.
Mail-catching device. R. E. Moody. No. 977,963; Dec. 6; Sp. p. 1184; Gaz. vol. 161; p. 189.
Mail-chute. A. K. Smith. No. 961,813; June 21; Sp. p. 3258; Gaz. vol. 155; p. 582.
Mail-chute. F. E. Anderson. No. 962,489; June 28; Sp. p. 4752; Gaz. vol. 155; p. 837.
Mail-chute. L. Ehrlich. No. 963,534; July 5; Sp. p. 1150; Gaz. vol. 156; p. 175.
Mail-chute. E. A. Kumming. No. 966,452; Aug. 9; Sp. p. 1280; Gaz. vol. 157; p. 230.
Mail-chute. A. K. Smith. No. 967,455; Aug. 16; Sp. p. 3459; Gaz. vol. 157; p. 596.
Mail-chute. F. E. Anderson. No. 971,015; Sept. 27; Sp. p. 3987; Gaz. vol. 158; p. 709.
Mail-chute. A. K. Smith. No. 973,080; Oct. 18; Sp. p. 3455; Gaz. vol. 159; p. 598.
Mail-chute. A. K. Smith. No. 973,081; Oct. 18; Sp. p. 3456; Gaz. vol. 159; p. 598.
Mail-chutes, Collection-box for. R. E. Edwards. No. 951,602; Mar. 8; Sp. p. 2305; Gaz. vol. 152; p. 400.
Mail-collecting apparatus. J. A. Steinmetz. No. 956,743; May 3; Sp. p. 518; Gaz. vol. 154; p. 84.
Mail-collecting device. W. M. Corthell. No. 959,467; May 31; Sp. p. 6584; Gaz. vol. 154; p. 1123.
Mail-crane. C. F. Morris. No. 954,988; Apr. 12; Sp. p. 2821; Gaz. vol. 153; p. 478.
Mail-crane. F. H. Hall. No. 966,743; Aug. 9; Sp. p. 1966; Gaz. vol. 157; p. 330.
Mail crane and catcher. J. A. Timmerman. No. 972,946; Oct. 18; Sp. p. 3180; Gaz. vol. 159; p. 554.
Mail-crane attachment. J. H. Bos. No. 964,746; July 19; Sp. p. 3833; Gaz. vol. 156; p. 638.
Mail-deliverer. W. M. Corthell. No. 959,468; May 31; Sp. p. 6587; Gaz. vol. 154; p. 1124.
Mail-deliverer. G. Lemieux. No. 966,223; Aug. 2; Sp. p. 815; Gaz. vol. 157; p. 129.
Mail delivering and collecting apparatus. T. Middlebrook. No. 971,914; Oct. 4; Sp. p. 867; Gaz. vol. 159; p. 149.
Mail delivering and receiving apparatus. G. P. Walton. No. 949,812; Feb. 22; Sp. p. 4252; Gaz. vol. 151; p. 767.
Mail delivering and receiving apparatus. N. J. Nelson. No. 952,574; Mar. 22; Sp. p. 4289; Gaz. vol. 152; p. 786.
Mail delivering and receiving apparatus. P. Friederick. No. 963,134; July 5; Sp. p. 272; Gaz. vol. 156; p. 37.
Mail delivering and receiving apparatus. J. T. Jeffries and R. L. Lynch. No. 978,894; Dec. 20; Sp. p. 3159; Gaz. vol. 161; p. 561.
Mail delivering and receiving apparatus, Railway. L. K. Hassell and C. Hanson. No. 972,530; Oct. 11; Sp. p. 2213; Gaz. vol. 159; p. 382.
Mail delivering and receiving device. H. G. Eynon. No. 975,025; Nov. 8; Sp. p. 2158; Gaz. vol. 160; p. 352.
Mail-delivering apparatus. J. H. Garman. No. 955,861; Apr. 26; Sp. p. 4701; Gaz. vol. 153; p. 836.
Mail-delivering apparatus, Automatic. C. U. Greeley. No. 945,272; Jan. 4; Sp. p. 555; Gaz. vol. 150; p. 91.
Mail-delivering apparatus, Automatic. C. U. Greeley. No. 945,273; Jan. 4; Sp. p. 557; Gaz. vol. 150; p. 91.
Mail-delivering apparatus, Automatic. L. Becker. No. 950,590; Mar. 1; Sp. p. 262; Gaz. vol. 152; p. 43.
Mail-delivery apparatus. J. J. McGrath. No. 946,392; Jan. 11; Sp. p. 3121; Gaz. vol. 150; p. 502.
Mail-delivery apparatus. J. B. Cary. No. 976,433; Nov. 22; Sp. p. 5212; Gaz. vol. 160; p. 885.
Mail-delivery chute. J. and H. Page. No. 947,843; Feb. 1; Sp. p. 139; Gaz. vol. 151; p. 23.
Mail-discharging apparatus. J. R. England. No. 961,943; June 21; Sp. p. 3541; Gaz. vol. 155; p. 625.
Mail distributer and collector, Automatic. J. H. Folts. No. 968,460; Aug. 23; Sp. p. 5569; Gaz. vol. 157; p. 961.
Mail-distributing rack. W. A. Carpenter. No. 946,108; Jan. 11; Sp. p. 2418; Gaz. vol. 150; p. 402.
Mail from fast-moving cars, Device for delivering. A. C. McCord. No. 967,223; Aug. 16; Sp. p. 2986; Gaz. vol. 157; p. 517.
Mail from fast-moving cars, Device for delivering. A. C. McCord. No. 967,224; Aug. 16; Sp. p. 2991; Gaz. vol. 157; p. 518.
Mail from moving cars, Apparatus for delivering. R. W. Lomax. No. 979,179; Dec. 20; Sp. p. 3839; Gaz. vol. 161; p. 664.
Mail from moving trains, Device for delivering. E. R. Robinson. No. 978,651; Dec. 13; Sp. p. 2685; Gaz. vol. 161; p. 457.
Mail-handling apparatus. J. P. and C. E. Guthrie. No. 947,679; Jan. 25; Sp. p. 5943; Gaz. vol. 150; p. 989.
Mail-handling apparatus. M. M. Miller, G. S. Steinberger, and W. H. Hargraves. No. 957,235; May 10; Sp. p. 1594; Gaz. vol. 154; p. 281.
Mail-handling apparatus. W. H. Hargraves and M. M. Miller. No. 957,330; May 10; Sp. p. 1805; Gaz. vol. 154; p. 315.
Mail-handling device. J. H. Buchanan. No. 948,087; Feb. 1; Sp. p. 645; Gaz. vol. 151; p. 104.
Mail-handling device. J. H. Buchanan. No. 966,649; Aug. 9; Sp. p. 1737; Gaz. vol. 157; p. 297.
Mail-hook. J. Hammond. No. 953,829; Apr. 5; Sp. p. 293; Gaz. vol. 153; p. 52.
Mail-marking machine. T. G. Stoddard. No. 948,712; Feb. 8; Sp. p. 1975; Gaz. vol. 151; p. 339.
Mail-marking machine. F. C. Jelfield. No. 949,275; Feb. 15; Sp. p. 3131; Gaz. vol. 151; p. 552.
Mail-marking machine. T. G. Stoddard and G. H. Barbour. No. 950,521; Mar. 1; Sp. p. 130; Gaz. vol. 152; p. 21.
Mail-pouch carrier. C. C. Snow. No. 977,481; Dec. 6; Sp. p. 123; Gaz. vol. 161; p. 21.
Mail-pouch catcher and deliverer. E. J. Lahan. No. 969,964; Sept. 13; Sp. p. 1782; Gaz. vol. 158; p. 303.
Mail-pouch-exchanging apparatus. W. F. Knapp. No. 976,374; Nov. 22; Sp. p. 5072; Gaz. vol. 160; p. 862.
Mail-pouch receiving and delivering apparatus. A. Hupp. No. 974,274; Nov. 1; Sp. p. 439; Gaz. vol. 160; p. 65.
Mail-pouch receiving and delivering mechanism. J. and B. Frankfort. No. 945,776; Jan. 11; Sp. p. 1707; Gaz. vol. 150; p. 287.
Mail receiving and collecting device. R. Martini. No. 975,552; Nov. 15; Sp. p. 3294; Gaz. vol. 160; p. 559.
Mail receiving and delivering apparatus. L. P. Harvey. No. 945,528; Jan. 4; Sp. p. 1127; Gaz. vol. 150; p. 174.
Mail receiving and delivering apparatus. W. L. Wood. No. 946,630; Jan. 18; Sp. p. 3624; Gaz. vol. 150; p. 608.
Mail receiving and delivering apparatus. F. Gardner. No. 954,952; Apr. 12; Sp. p. 2751; Gaz. vol. 153; p. 466.
Mail receiving and delivering apparatus. R. W. Lomax. No. 960,180; May 31; Sp. p. 8125; Gaz. vol. 154; p. 1366.
Mail receiving and delivering apparatus. W. T. Ferguson. No. 969,612; Sept. 6; Sp. p. 988; Gaz. vol. 158; p. 157.
Mail-receiving apertures, Closure for. L. Ehrlich. No. 951,182; Mar. 8; Sp. p. 1453; Gaz. vol. 152; p. 263.
Mail-receiving apparatus. W. D. Saphar. No. 953,554; Mar. 29; Sp. p. 6401; Gaz. vol. 152; p. 1147.
Mail-receiving device. M. A. Candle. No. 973,166; Oct. 18; Sp. p. 3665; Gaz. vol. 159; p. 629.
Mail-receptacle, House. S. D. Pierce. No. 961,527; June 14; Sp. p. 2659; Gaz. vol. 155; p. 462.
Mail to moving cars, Apparatus for delivering. R. W. Lomax. No. 978,911; Dec. 20; Sp. p. 3194; Gaz. vol. 161; p. 567.
Mail-transferring apparatus. T. R. Cook. No. 975,212; Nov. 8; Sp. p. 2582; Gaz. vol. 160; p. 416.
Mail-tying device. J. A. Follman. No. 963,130; July 5; Sp. p. 267; Gaz. vol. 156; p. 36.
Mail-wagon. G. A. Flinn. No. 970,437; Sept. 13; Sp. p. 2741; Gaz. vol. 158; p. 462.

Alphabetical list of inventions—Continued.

Mailing and souvenir card, Collapsible-object. J. R. Hamilton. No. 953,168; Mar. 29; Sp. p. 5569; Gaz. vol. 152; p. 1015.
Mailing-box. C. Tatham. No. 945,349; Jan. 4; Sp. p. 753; Gaz. vol. 150; p. 115.
Mailing-box. G. Boden. No. 969,029; Aug. 30; Sp. p. 6785; Gaz. vol. 157; p. 1182.
Mailing-card, Private. W. J. Wooldridge. No. 961,829; June 21; Sp. p. 3300; Gaz. vol. 155; p. 588.
Mailing device. A. Clutter. No. 976,783; Nov. 22; Sp. p. 5944; Gaz. vol. 160; p. 1003.
Mailing device, Coin-. A. E. Hall. No. 962,956; June 28; Sp. p. 5692; Gaz. vol. 155; p. 997.
Mailing-folder. C. C. Stewart. No. 970,659; Sept. 20; Sp. p. 3252; Gaz. vol. 158; p. 560.
Mailing-folder. C. F. Jenkins. No. 974,276; Nov. 1; Sp. p. 447; Gaz. vol. 160; p. 66.
Mailing-galley. R. E. Zeiske. No. 955,303; Apr. 19; Sp. p. 3467; Gaz. vol. 153; p. 616.
Mailing package and wrapper. H. L. Day. No. 965,161; July 26; Sp. p. 4670; Gaz. vol. 156; p. 809.
Mailing-receptacles, Card attachment for. A. R. Bingham. No. 948,202; Feb. 1; Sp. p. 866; Gaz. vol. 151; p. 142.
Mailing-receptacles, Exhibitor for. J. W. Cutler. No. 954,786; Apr. 12; Sp. p. 2363; Gaz. vol. 153; p. 409.
Mailing-tube. G. D. Horton. No. 948,506; Feb. 8; Sp. p. 1533; Gaz. vol. 151; p. 270.
Mailing-tube. H. L. Gray. No. 956,636; May 3; Sp. p. 278; Gaz. vol. 154; p. 46.
Mailing-tube. E. G. Hamilton. No. 969,367; Sept. 6; Sp. p. 459; Gaz. vol. 158; p. 75.
Mailing tube or wrapper. H. L. Greve. No. 951,421; Mar. 8; Sp. p. 1956; Gaz. vol. 152; p. 340.
Main and pipe cleaner. H. A. Greenan and F. O. Redford. No. 957,051; May 3; Sp. p. 1185; Gaz. vol. 154; p. 188.
Mainspring-barrel. J. Austin. No. 977,994; Dec. 6; Sp. p. 1229; Gaz. vol. 161; p. 198.
Mainspring-winder. T. W. Hobb and W. A. Gwinn. No. 973,045; Oct. 18; Sp. p. 3388; Gaz. vol. 159; p. 587.
Malt as well as grinding washed and steeped malt, Washing and steeping. A. Hansen. No. 966,910; Aug. 9; Sp. p. 2333; Gaz. vol. 157; p. 383.
Malt beverages, Manufacture of. R. Wahl. No. 979,810; Dec. 27; Sp. p. 5190; Gaz. vol. 161; p. 900.
Malt-house. W. H. Prinz. No. 967,973; Aug. 23; Sp. p. 4523; Gaz. vol. 157; p. 794.
Malt-kiln. J. F. Dornfeld. No. 966,669; Aug. 9; Sp. p. 1777; Gaz. vol. 157; p. 304.
Malted preparations from cereals, Manufacture of. L. C. Reese. No. 974,597; Nov. 1; Sp. p. 1188; Gaz. vol. 160; p. 182.
Malting. J. Schneible. No. 954,889; Apr. 12; Sp. p. 2621; Gaz. vol. 153; p. 445.
Malting apparatus. C. J. Erdmann. No. 957,664; May 10; Sp. p. 2475; Gaz. vol. 154; p. 428.
Malting apparatus. W. H. Prinz. No. 958,821; May 24; Sp. p. 5233; Gaz. vol. 154; p. 882.
Malting apparatus. W. H. Prinz. No. 958,822; May 24; Sp. p. 5238; Gaz. vol. 154; p. 883.
Malting apparatus. W. H. Prinz. No. 958,823; May 24; Sp. p. 5240; Gaz. vol. 154; p. 883.
Malting apparatus. W. H. Prinz. No. 958,824; May 24; Sp. p. 5243; Gaz. vol. 154; p. 883.
Malting apparatus. W. H. Prinz. No. 958,825; May 24; Sp. p. 5247; Gaz. vol. 154; p. 884.
Malting or drying grain or the like, Drum for. B. Nissen. No. 951,835; Mar. 15; Sp. p. 2793; Gaz. vol. 152; p. 510.
Mandolin. A. Mannello. No. 945,563; Jan. 4; Sp. p. 1202; Gaz. vol. 150; p. 186.
Mandrel. E. Board. No. 979,922; Dec. 27; Sp. p. 5423; Gaz. vol. 161; p. 937.
Mandrel, Clutch-grip. M. Jaeger. No. 975,043; Nov. 8; Sp. p. 2196; Gaz. vol. 160; p. 357.
Mandrel, Expanding. H. W. Lunceford. No. 963,603; July 5; Sp. p. 1290; Gaz. vol. 156; p. 198.
Mandrel, Expansion-. A. Jefferys. No. 966,449; Aug. 9; Sp. p. 1275; Gaz. vol. 157; p. 229.
Mandrel, Piercing-. R. J. Gardiner. No. 945,932; Jan. 11; Sp. p. 2067; Gaz. vol. 150; p. 344.
Manganates, permanganates, halogens, and hydroxids, Producing. F. J. Machalske. No. 956,120; Apr. 26; Sp. p. 5273; Gaz. vol. 153; p. 926.
Mangle. P. L. Brockardt. No. 948,587; Feb. 8; Sp. p. 1714; Gaz. vol. 151; p. 297.
Mangle. W. Leist. No. 975,260; Nov. 8; Sp. p. 2672; Gaz. vol. 160; p. 432.
Mangle feeding mechanism. D. M. Cooper. No. 976,553; Nov. 22; Sp. p. 5474; Gaz. vol. 160; p. 924.
Manhole-cover. O. T. Dougherty. No. 965,163; July 26; Sp. p. 4673; Gaz. vol. 156; p. 810.
Manhole cover, Sewer-. M. C. Rice and M. J. Pendergast. No. 953,858; Apr. 5; Sp. p. 354; Gaz. vol. 153; p. 63.
Manhole-form. P. G. Harshbarger. No. 975,525; Nov. 15; Sp. p. 3228; Gaz. vol 160; p. 550.
Manicure article, Combination. R. M. Luce. No. 971.057; Sept. 27; Sp. p. 4086; Gaz. vol. 158; p. 723.
Manicure-buffer. M. C. Tener. No. 945,061; Jan. 4; Sp. p. 112; Gaz. vol. 150; p. 20.
Manicure instrument. E. Ruettgers. No. 973,308; Oct. 18; Sp. p. 3958; Gaz. vol. 159; p. 677.
Manicuring instrument. G. W. Moore. No. 954,325; Apr. 5; Sp. p. 1342; Gaz. vol. 153; p. 222.
Manicurist's finger-support. J. Macdonald. No. 968,965; Aug. 30; Sp. p. 6659; Gaz. vol. 157; p. 1160.
Manifolding device. G. F. Hutchings. No. 954,102; Apr. 5; Sp. p. 854; Gaz. vol. 153; p. 147.
Manifolding device. E. J. Tousignant. No. 958,566; May 17; Sp. p. 4689; Gaz. vol. 154; p. 770.
Manifolding device. H. H. Hill. No. 963,556; July 5; Sp. p. 1187; Gaz. vol. 156; p. 183.
Manifolding device. G. H. Robinson. No. 965,227; July 26; Sp. p. 4799; Gaz. vol. 156; p. 830.
Manifolding device. W. B. Nagle. No. 970,735; Sept. 20; Sp. p. 3419; Gaz. vol. 158; p. 586.
Manifolding device. E. E. Brunson. No. 971,725; Oct. 4; Sp. p. 453; Gaz. vol. 159; p. 78.
Manifolding devices, Carbon-holder for. E. E. Everall. No. 948,211; Feb. 1; Sp. p. 881; Gaz. vol. 151; p. 145.
Manifolding-pad. H. S. Green. No. 945,323; Jan. 4; Sp. p. 691; Gaz. vol. 150; p. 108.
Manifolding-pad. T. W. Old. No. 970,739; Sept. 20; Sp. p. 3427; Gaz. vol. 158; p. 587.
Manifolding-pad. E. K. Bottle. No. 970,785; Sept. 20; Sp. p. 3537; Gaz. vol. 158; p. 605.
Manifolding-pad. E. K. Bottle. No. 972,805; Oct. 18; Sp. p. 2804; Gaz. vol. 159; p. 501.
Manifolding-pad. R. Clark. No. 972,819; Oct. 18; Sp. p. 2842; Gaz. vol. 159; p. 507.
Manometer, Indicating, integrating, and recording. F. N. Connet. No. 962,317; June 21; Sp. p. 4364; Gaz. vol. 155; p. 753.
Mantle, Incandescent. M. Weickert. No. 951,710; Mar. 8; Sp. p. 2510; Gaz. vol. 152; p. 436.
Mantle-making process. C. M. Lungren. No. 964,036; July 12; Sp. p. 2224; Gaz. vol. 156; p. 366.
Mantle protector and holder. G. E. Hulse. No. 948,995; Feb. 15; Sp. p. 2557; Gaz. vol. 151; p. 460.
Mantle-support. J. D. Warren. No. 953,161; Mar. 29; Sp. p. 5556; Gaz. vol. 152; p. 1013.
Mantle-supporting transportation device. T. J. Litle, Jr. No. 958,261; May 17; Sp. p. 3940; Gaz. vol. 154; p. 663.
Mantle-tying apparatus. E. Skriwan. No. 963,821; July 12; Sp. p. 1772; Gaz. vol. 156; p. 294.
Mantles, Machine for calcining. J. Bonnet and J. L. Muller. No. 973,161; Oct. 18; Sp. p. 3645; Gaz. vol. 159; p. 627.
Mantles, Manufacturing incandescent. H. Süssmann. No. 950,734; Mar. 1; Sp. p. 591; Gaz. vol. 152; p. 93.
Mantles, Manufacturing incandescent gas-. E. Ross. No. 947,283; Jan. 25; Sp. p. 5054; Gaz. vol. 150; p. 854.
Manual-training bench. R. L. Cooley. No. 946,960; Jan. 18; Sp. p. 4376; Gaz. vol. 150; p. 719.
Manure-distributer. R. R. Lokey. No. 961,506; June 14; Sp. p. 2611; Gaz. vol. 155; p. 456.
Manure-distributer and dump-cart. G. W. Barrow. No. 947,538; Jan. 25; Sp. p. 5666; Gaz. vol. 150; p. 941.
Manure distributer, Chemical-. L. Frennet. No. 977,290; Nov. 29; Sp. p. 7076; Gaz. vol. 160; p. 1204.
Manure-drill. K. Beckmann. No. 975,111; Nov. 8; Sp. p. 2348; Gaz. vol. 160; p. 382.
Manure-fork. E. Schwartzman. No. 978,661; Dec. 13; Sp. p. 2705; Gaz. vol. 161; p. 460.
Manure-loader. W. Roberts. No. 948,552; Feb. 8; Sp. p. 1631; Gaz. vol. 151; p. 285.
Manure-loader. J. Sinner and W. Sinz. No. 954,545; Apr. 12; Sp. p. 1810; Gaz. vol. 153; p. 325.
Manure-loader. J. Nold. No. 957,085; May 3; Sp. p. 1258; Gaz. vol. 154; p. 200.
Manure-loader. M. W. Brennan. No. 960,490; June 7; Sp. p. 504; Gaz. vol. 155; p. 84.
Manure-loader. J. H. Lyon. No. 966,030; Aug. 2; Sp. p. 407; Gaz. vol. 157; p. 65.
Manure-loader and like device. J. J. Novak. No. 970,259; Sept. 13; Sp. p. 2400; Gaz. vol. 158; p. 404.
Manure-loader, Rotary. E. M. Warrenfeltz. No. 969,227; Sept. 6; Sp. p. 181; Gaz. vol. 158; p. 30.
Manure-receptacle. J. Harrigan. No. 957,772; May 10; Sp. p. 2693; Gaz. vol. 154; p. 463.
Manure-scraper. L. C. Peterson. No. 973,967; Oct. 25; Sp. p. 5342; Gaz. vol. 159; p. 929.
Manure-spreader. T. Brown. No. 946,718; Jan. 18; Sp. p. 3808; Gaz. vol. 150; p. 636.
Manure-spreader. T. Brown. No. 947,277; Jan. 25; Sp. p. 5043; Gaz. vol. 150; p. 852.
Manure-spreader. W. J. Cook. No. 947,374; Jan. 25; Sp. p. 5273; Gaz. vol. 150; p. 887.
Manure-spreader. E. Palm. No. 947,453; Jan. 25; Sp. p. 5450; Gaz. vol. 150; p. 911.
Manure-spreader. W. N. and W. N. Whitely, Jr. No. 950,547; Mar. 1; Sp. p. 176; Gaz. vol. 152; p. 30.
Manure-spreader. E. E. Rowley. No. 954,137; Apr. 5; Sp. p. 908; Gaz. vol. 153; p. 158.
Manure-spreader. S. C. Reveley. No. 963,249; July 5; Sp. p. 577; Gaz. vol. 156; p. 79.
Manure-spreader. J. D. Echols. No. 964,853; July 19; Sp. p. 4052; Gaz. vol. 156; p. 675.
Manure-spreader. D. E. Howatt. No. 967,522; Aug. 16; Sp. p. 3613; Gaz. vol. 157; p. 620.
Manure-spreader. L. A. Funk. No. 971,436; Sept. 27; Sp. p. 4837; Gaz. vol. 158; p. 847.

Manure-spreader. H. A. Arnold. No. 973,742; Oct. 25; Sp. p. 4889; Gaz. vol. 159; p. 850.
Manure-spreader, Attachable. J. J. Howd. No. 963,896; July 12; Sp. p. 1941; Gaz. vol. 156; p. 319.
Manure-spreader attachment. J. Olander. No. 968,788; Aug. 30; Sp. p. 6311; Gaz. vol. 157; p. 1101.
Manure-spreader for wagons. P. L. Fortin. No. 971,836; Oct. 4; Sp. p. 676; Gaz. vol. 159; p. 119.
Manure-spreader for wagons. P. L. Fortin. No. 971,837; Oct. 4; Sp. p. 681; Gaz. vol. 159; p. 120.
Manure-spreader frame. F. Schaal. No. 949,601; Feb. 15; Sp. p. 3802; Gaz. vol. 151; p. 662.
Manure-spreaders, Drill attachment for. C. H. Ellis. No. 949,173; Feb. 15; Sp. p. 2926; Gaz. vol. 151; p. 518.
Manure, Treatment of. W. Hoskins. No. 970,711; Sept. 20; Sp. p. 3374; Gaz. vol. 158; p. 579.
Maps and other articles, Sectional board for supporting. F. E. Snedeker. No. 964,065; July 12; Sp. p. 2286; Gaz. vol. 156; p. 376.
Marble-shooter. M. E. Reilly. No. 959,028; May 24; Sp. p. 5667; Gaz. vol. 154; p. 953.
Marine table. J. H. Jones. No. 946,756; Jan. 18; Sp. p. 3897; Gaz. vol 150; p. 649.
Marker for laundries and the like, Garment-. D. C. Voss. (Reissue.) No. 13,126; July 5; Sp. p. 1568; Gaz. vol. 156; p. 242.
Marker, Land-. J. G. Byron. No. 951,387; Mar. 8; Sp. p. 1885; Gaz. vol. 152; p. 329.
Marker, Land-. P. A. Ulrich. No. 958,567; May 17; Sp. p. 4691; Gaz. vol. 154; p. 770.
Marker, Land-. H. S. Kellander. No. 964,027; July 12; Sp. p. 2208; Gaz. vol. 156; p. 363.
Marking and trimming device. R. J. Meland and T. O. Moe. No. 971,460; Sept. 27; Sp. p. 4878; Gaz. vol. 158; p. 854.
Marking and vending machine. F. C. Williams. No. 947,364; Jan. 25; Sp. p. 5249; Gaz. vol. 150; p. 884.
Marking-gage. W. E. Perkins. No. 948,523; Feb. 8; Sp. p. 1569; Gaz. vol. 151; p. 276.
Marking-gage. W. Potter. No. 960,039; May 31; Sp. p. 7864; Gaz. vol. 154; p. 1320.
Marking laundry-tags, clothes, and other articles made of textile fabrics. H. Higgin. No. 959,860; May 31; Sp. p. 7416; Gaz. vol. 154; p. 1256.
Marking machine, Fabric-. J. A. Shufelt. No. 976,609; Nov. 22; Sp. p. 5581; Gaz. vol. 160; p. 944.
Marking machine, Lumber-. V. Varin. No. 966,492; Aug. 9; Sp. p. 1383; Gaz. vol. 157; p. 244.
Marking-pot. W. H. Scott. No. 976,504; Nov. 22; Sp. p. 5354; Gaz. vol. 160; p. 908.
Marking textile fabrics, Mechanism for inking the marking-type of machines for. H. Higgin. No. 966,915; Aug. 9; Sp. p. 2341; Gaz. vol. 157; p. 384.
Mash and the like from noxious odors and flavors, Freeing fermented, A. P. Stitzel. No. 956,650; May 3; Sp. p. 310; Gaz. vol. 154; p. 51.
Mash-tubs, Drain attachment for. J. N. Birsner. No. 952,180; Mar. 15; Sp. p. 3462; Gaz. vol. 152; p. 623.
Mashing-machine deflector. A. R. Keller. No. 979,510; Dec. 27; Sp. p. 4511; Gaz. vol. 161; p. 796.
Mashing process. A. J. M. Lasché. No. 977,200; Nov. 29; Sp. p. 6911; Gaz. vol. 160; p. 1174.
Mask, Anesthesia-. V. F. Marshall. No. 955,821; Apr. 19; Sp. p. 4590; Gaz. vol. 153; p. 793.
Mask, Chin-. G. W. Thomas. No. 955,562; Apr. 19; Sp. p. 4016; Gaz. vol. 153; p. 704.
Mask, Face-protecting. M. Dysthe. No. 960,520; June 7; Sp. p. 566; Gaz. vol. 155; p. 93.
Massage apparatus. C. J. Manning. No. 946,972; Jan. 18; Sp. p. 4403; Gaz. vol. 150; p. 724.
Massage apparatus. M. A. Haines. No. 949,230; Feb. 15; Sp. p. 3031; Gaz. vol. 151; p. 537.
Massage apparatus. J. Sabatino. No. 949,550; Feb. 15; Sp. p. 3711; Gaz. vol. 151; p. 645.
Massage apparatus. E. C. Sickels. No. 950,059; Feb. 22; Sp. p. 4857; Gaz. vol. 151; p. 855.
Massage apparatus. R. H. Gay. No. 954,083; Apr. 5; Sp. p. 805; Gaz. vol. 153; p. 140.
Massage apparatus. G. R. Pyper. No. 958,939; May 24; Sp. p. 5500; Gaz. vol. 154; p. 923.
Massage apparatus. L. A. and C. M. Siebert, Jr. No. 961,034; June 7; Sp. p. 1595; Gaz. vol. 155; p. 267.
Massage apparatus. H. C. Karpenstein. No. 962,901; June 28; Sp. p. 5599; Gaz. vol. 155; p. 980.
Massage apparatus. B. L. Gates. No. 973,770; Oct. 25; Sp. p. 4945; Gaz. vol. 159; p. 860.
Massage-apparatus handle. T. A. McCall and C. M. Siebert, Jr. No. 961,365; June 14; Sp. p. 2315; Gaz. vol. 155; p. 409.
Massage apparatus, Vibratory. F. R. Kunkel. No. 975,436; Nov. 15; Sp. p. 3036; Gaz. vol. 160; p. 518.
Massage apparatus, Vibratory. F. R. Kunkel. No. 975,437; Nov. 15; Sp. p. 3037; Gaz. vol. 160; p. 519.
Massage cup or tip. J. B. Fey. No. 956,325; Apr. 26; Sp. p. 5730; Gaz. vol. 153; p. 997.
Massage device. J. C. Lumsden. No. 955,339; Apr. 19; Sp. p. 3553; Gaz. vol. 153; p. 628.
Massage device. S. F. Bowser. No. 961,479; June 14; Sp. p. 2552; Gaz. vol. 155; p. 447.
Massage devices, Cup or head for. C. M. Siebert, Jr. No. 950,121; Feb. 22; Sp. p. 4976; Gaz. vol. 151; p. 875.
Massage devices, Cup or head for. C. M. Siebert, Jr. No. 961,033; June 7; Sp. p. 1594; Gaz. vol. 155; p. 267.
Massage-machine. W. G. Trautman. No. 968,209; Aug. 23; Sp. p. 5066; Gaz. vol. 157; p. 873.
Massage-machine. E. E. Ziegler. No. 976,423; Nov. 22; Sp. p. 5184; Gaz. vol. 160; p. 880.
Massage-machine. A. A. Kent. No. 978,031; Dec. 6; Sp. p. 1312; Gaz. vol. 161; p. 210.
Massage-vibrator. A. E. Ellis. No. 976,993; Nov. 29; Sp. p. 6450; Gaz. vol. 160; p. 1101.
Massager. A. R. Campbell. No. 948,005; Feb. 1; Sp. p. 467; Gaz. vol. 151; p. 76.
Massaging and like apparatus, Portable electric. N. B. Le Fevre. No. 951,821; Mar. 15; Sp. p. 2763; Gaz. vol. 152; p. 505.
Massaging apparatus. E. J. McCarthy. No. 975,702; Nov. 15; Sp. p. 3609; Gaz. vol. 160; p. 608.
Massaging implement. A. M. Dunder. No. 974,367; Nov. 1; Sp. p. 658; Gaz. vol. 160; p. 99.
Mast-bands, Making solid. W. Wensley. No. 979,403; Dec. 20; Sp. p. 4282; Gaz. vol. 161; p. 736.
Mast-cap. B. D. Jensen. No. 957,343; May 10; Sp. p. 1834; Gaz. vol. 154; p. 319.
Mast, Portable, extensible, and retractable. F. Jaeger and A. Siewert. No. 980,157; Dec. 27; Sp. p. 5946; Gaz. vol. 161; p. 1015.
Masts, poles, or the like, Protecting means for. O. F. Weinlig. No. 956,656; May 3; Sp. p. 326; Gaz. vol. 154; p. 53.
Master-controllers, Means for operating. E. G. Deucher. No. 957,662; May 10; Sp. p. 2470; Gaz. vol. 154; p. 427.
Master-plates, Making. H. McPhee. No. 976,897; Nov. 29; Sp. p. 6199; Gaz. vol. 160; p. 1067.
Mat: *See* Foot-mat; Wire mat.
Mat. E. Bouchard. No. 961,929; June 21; Sp. p. 3511; Gaz. vol. 155; p. 620.
Mat. J. P. Donovan. No. 977,789; Dec. 6; Sp. p. 813; Gaz. vol. 161; p. 126.
Mat or tread. F. G. McPherson. No. 945,575; Jan. 4; Sp. p. 1228; Gaz. vol. 150; p. 190.
Mat or tread. F. G. McPherson. No. 945,576; Jan. 4; Sp. p. 1230; Gaz. vol. 150; p. 190.
Matting-roller. A. E. Shannon. No. 946,468; Jan. 11; Sp. p. 3295; Gaz. vol. 150; p. 529.
Match. H. A. Christy. No. 953,659; Mar. 29; Sp. p. 6625; Gaz. vol. 152; p. 1182.
Match-box. H. C. Fleming and W. F. Royster. No. 945,775; Jan. 11; Sp. p. 1705; Gaz. vol. 150; p. 286.
Match-box. R. E. Jones. No. 948,884; Feb. 8; Sp. p. 2322; Gaz. vol. 151; p. 395.
Match-box. J. Kuhn. No. 953,471; Mar. 29; Sp. p. 6225; Gaz. vol. 152; p. 1116.
Match-box. C. Hiering and A. Fuller. No. 956,092; Apr. 26; Sp. p. 5212; Gaz. vol. 153; p. 917.
Match-box. R. E. Lee. No. 956,376; Apr. 26; Sp. p. 5837; Gaz. vol. 153; p. 1014.
Match-box. S. W. Bock. No. 958,468; May 17; Sp. p. 4506; Gaz. vol. 154; p. 738.
Match-box. E. C. Haymaker. No. 968,351; Aug. 23; Sp. p. 5359; Gaz. vol. 157; p. 924.
Match-box. J. E. P. Pender. No. 969,076; Aug. 30; Sp. p. 6885; Gaz. vol. 157; p. 1198.
Match-box. E. Poeppel. No. 973,297; Oct. 18; Sp. p. 3935; Gaz. vol. 159; p. 674.
Match-box. J. W. Fink. No. 973,930; Oct. 25; Sp. p. 5277; Gaz. vol. 159; p. 916.
Match-box. D. C. Moore. No. 975,978; Nov. 15; Sp. p. 4158; Gaz. vol. 160; p. 703.
Match-box. H. C. Fleming and W. F. Royster. No. 977,441; Dec. 6; Sp. p. 26; Gaz. vol. 161; p. 7.
Match-box. B. J. L. Bolt. No. 979,124; Dec. 20; Sp. p. 3718; Gaz. vol. 161; p. 644.
Match-box and cigar-cutter. H. Marriott. No. 945,792; Jan. 11; Sp. p. 1741; Gaz. vol. 150; p. 292.
Match-box and cigar-cutter, Combined. H. Marriott. No. 979,318; Dec. 20; Sp. p. 4122; Gaz. vol. 161; p. 710.
Match box and holder. F. O. Kullander. No. 956,809; May 3; Sp. p. 671; Gaz. vol. 154; p. 106.
Match-box and supporting-rack, Combination. L. D. Kelso. No. 965,468; July 26; Sp. p. 5334; Gaz. vol. 156; p. 912.
Match-box, Automatic. C. W. Martin. No. 969,384; Sept. 6; Sp. p. 501; Gaz. vol. 158; p. 80.
Match-box-filling-adjusting apparatus. P. W. Dietmann and V. Violon. No. 968,137; Aug. 23; Sp. p. 4892; Gaz. vol. 157; p. 849.
Match-box holder. G. C. Lynch. No. 947,666; Jan. 25; Sp. p. 5426; Gaz. vol. 150; p. 985.
Match-box holder. H. C. Kirk, Jr. No. 949,185; Feb. 15; Sp. p. 2954; Gaz. vol. 151; p. 523.
Match-box holder. C. S. Radford. No. 965,012; July 19; Sp. p. 4368; Gaz. vol. 156; p. 728.
Match-box holder. W. B. Seeley. No. 965,603; July 26; Sp. p. 5639; Gaz. vol. 156; p. 960.
Match-box holder. A. S. Napier. No. 967,545; Aug. 16; Sp. p. 3652; Gaz. vol. 157; p. 628.
Match-box holder. C. E. Wirth. No. 976,533; Nov. 22; Sp. p. 5430; Gaz. vol. 160; p. 917.
Match-box holder and cigar-cutter, Combined. E. Oldenbusch. No. 961,001; June 7; Sp. p. 1536; Gaz. vol. 155; p. 257.

Alphabetical list of inventions—Continued.

Match-box-manufacturing machine. G. Olsson. No. 980,120; Dec. 27; Sp. p. 5869; Gaz. vol. 161; p. 1003.
Match-box, Pocket. J. E. and V. J. Lowdermilk. No. 961,783; June 21; Sp. p. 3187; Gaz. vol. 155; p. 572.
Match box, Self-igniting-. P. Sands. No. 965,948; Aug. 2; Sp. p. 205; Gaz. vol. 157; p. 36.
Match-box, Single-delivery. H. E. Reynolds. No. 945,047; Jan. 4; Sp. p. 82; Gaz. vol. 150; p. 15.
Match-box, Single-delivery. M. Meyerson. No. 958,966; May 24; Sp. p. 5548; Gaz. vol. 154; p. 932.
Match-boxes and the like, Machine for manufacturing drawers for. J. G. Olsson. No. 978,195; Dec. 13; Sp. p. 1689; Gaz. vol. 161; p. 297.
Match-boxes, ashes, and the like, Receptacle for. C. S. Whipple. No. 952,160; Mar. 15; Sp. p. 3430; Gaz. vol. 152; p. 617.
Match boxes, &c., Striking-surface on safety-. A. Swoboda. No. 949,920; Feb. 22; Sp. p. 4515; Gaz. vol. 151; p. 806.
Match-case. B. Epstein. No. 949,528; Feb. 15; Sp. p. 3660; Gaz. vol. 151; p. 638.
Match-case, Pocket. J. J. Manchester. No. 947,004; Jan. 18; Sp. p. 4459; Gaz. vol. 150; p. 735.
Match-case, Pocket. J. J. Manchester. No. 976,386; Nov. 22; Sp. p. 5108; Gaz. vol. 160; p. 867.
Match-holder. H. G. Blankenhagen. No. 958,690; May 17; Sp. p. 4930; Gaz. vol. 154; p. 809.
Match-holder, Pocket. D. L. Block. No. 962,810; June 28; Sp. p. 5431; Gaz. vol. 155; p. 949.
Match-lighter. E. Zeschmar. No. 979,632; Dec. 27; Sp. p. 4788; Gaz. vol. 161; p. 840.
Match-machine. C. A. Tatum and W. H. Parker. No. 948,027; Feb. 1; Sp. p. 514; Gaz. vol. 151; p. 83.
Match-making machine. S. E. Rahe. No. 951,381; Mar. 8; Sp. p. 1874; Gaz. vol. 152; p. 327.
Match-package. T. von Deylen. No. 969,045; Aug. 30; Sp. p. 6816; Gaz. vol. 157; p. 1187.
Match-receptacle. H. Wark. No. 948,803; Feb. 8; Sp. p. 2178; Gaz. vol. 151; p. 370.
Match-receptacle. S. Stehlik and J. Barilla. No. 969,916; Sept. 13; Sp. p. 1671; Gaz. vol. 158; p. 287.
Match-receptacle and cigar-cutter, Single-delivery. M. R. and J. E. Stowell. No. 960,431; June 7; Sp. p. 389; Gaz. vol. 155; p. 65.
Match-receptacle, Cigar-cutting. J. P. Crosthwait. No. 949,524; Feb. 15; Sp. p. 3653; Gaz. vol. 151; p. 636.
Match-safe. J. S. A. Nicholson. No. 948,017; Feb. 1; Sp. p. 489; Gaz. vol. 151; p. 79.
Match-safe. J. L. Dunning. No. 949,223; Feb. 15; Sp. p. 3011; Gaz. vol. 151; p. 535.
Match-safe. C. M. Mohr. No. 952,542; Mar. 22; Sp. p. 4223; Gaz. vol. 152; p. 774.
Match-safe. L. Hildreth. No. 958,122; May 17; Sp. p. 3652; Gaz. vol. 154; p. 616.
Match-safe. V. E. Golden. No. 958,802; May 24; Sp. p. 5193; Gaz. vol. 154; p. 875.
Match-safe. J. Schut. No. 978,225; Dec. 13; Sp. p. 1746; Gaz. vol. 161; p. 307.
Match-safe and cigar-cutter, Combined. G. W. Behler. No. 961,066; June 7; Sp. p. 1662; Gaz. vol. 155; p. 278.
Match-safe and cigar-cutter, Combined. A. N. Roth. No. 973,306; Oct. 18; Sp. p. 3956; Gaz. vol. 159; p. 677.
Match-safe, Pocket. J. A. Burr. No. 950,815; Mar. 1; Sp. p. 765; Gaz. vol. 152; p. 122.
Match-scratching attachment. H. C. Joiner. No. 954,738; Apr. 12; Sp. p. 2259; Gaz. vol. 153; p. 392.
Match-scratching device. W. V. Hardy. No. 955,397; Apr. 19; Sp. p. 3688; Gaz. vol. 153; p. 648.
Match-stand and ash-receiver. E. Lafleur. No. 975,438; Nov. 15; Sp. p. 3039; Gaz. vol. 160; p. 519.
Match-stand and cigar-cutter, Combined. J. H. Astruck. No. 961,927; June 21; Sp. p. 3509; Gaz. vol. 155; p. 620.
Match-striker. A. Kinowski. No. 964,276; July 12; Sp. p. 2717; Gaz. vol. 156; p. 448.
Match-striking cabinet. C. R. Smith. No. 976,612; Nov. 22; Sp. p. 5586; Gaz. vol. 160; p. 945.
Material-cutter and grouping-frame. H. Zimmerman. No. 954,559; Apr. 12; Sp. p. 1844; Gaz. vol. 153; p. 330.
Material-elevator. H. Cull. No. 968,030; Aug. 23; Sp. p. 4656; Gaz. vol. 157; p. 813.
Material-moving mechanism. J. N. Cox. No. 954,784; Apr. 12; Sp. p. 2358; Gaz. vol. 153; p. 408.
Matrices, Protecting. H. Cohn. No. 949,819; Feb. 22; Sp. p. 4272; Gaz. vol. 151; p. 770.
Matrix. M. A. Droitcour. No. 978,824; Dec. 13; Sp. p. 3012; Gaz. vol. 161; p. 511.
Matrix-dimensioning machine. J. S. Bancroft and M. C. Indahl. No. 952,596; Mar. 22; Sp. p. 4335; Gaz. vol. 152; p. 793.
Matrix-forming machine. G. S. Williamson. No. 948,677; Feb. 8; Sp. p. 1904; Gaz. vol. 151; p. 327.
Matrix-plate. G. W. Clarke. No. 965,155; July 26; Sp. p. 4660; Gaz. vol. 156; p. 807.
Matte, Handling. W. D. Kilbourn. No. 964,275; July 12; Sp. p. 2714; Gaz. vol. 156; p. 447.
Matte, Handling. W. D. Kilbourn. No. 974,074; Oct. 25; Sp. p. 5570; Gaz. vol. 159; p. 965.
Mattes, Wet treatment of. J. T. Carrick. No. 961,934; June 21; Sp. p. 3519; Gaz. vol. 155; p. 622.
Mattress. A. Bjornstad. No. 948,644; Feb. 8; Sp. p. 1836; Gaz. vol. 151; p. 316.
Mattress. A. T. Quick. No. 953,551; Mar. 29; Sp. p. 6396; Gaz. vol. 152; p. 1146.
Mattress. F. J. Hecht. No. 954,284; Apr. 5; Sp. p. 1251; Gaz. vol. 153; p. 207.
Mattress. H. Laurila. No. 957,892; May 17; Sp. p. 2957; Gaz. vol. 154; p. 534.
Mattress. P. Klimowicz. No. 965,637; July 26; Sp. p. 5721; Gaz. vol. 156; p. 973.
Mattress. D. B. Michie. No. 967,652; Aug. 16; Sp. p. 3859; Gaz. vol. 157; p. 663.
Mattress. O. M. Burton. No. 969,840; Sept. 13; Sp. p. 1519; Gaz. vol. 158; p. 261.
Mattress. C. I. Flintoft. No. 976,352; Nov. 22; Sp. p. 5032; Gaz. vol. 160; p. 854.
Mattress and the like. O. M. Burton. No. 977,508; Dec. 6; Sp. p. 184; Gaz. vol. 161; p. 30.
Mattress-cover. E. L. Fuller. No. 948,684; Feb. 8; Sp. p. 1917; Gaz. vol. 151; p. 329.
Mattress-filler. P. G. Mayhew. No. 966,459; Aug. 9; Sp. p. 1297; Gaz. vol. 157; p. 232.
Mattress-frame, Foldable. F. M. Tinkham. No. 979,227; Dec. 20; Sp. p. 3945; Gaz. vol. 161; p. 681.
Mattress frame, Spring-. G. H. St. Clair. No. 978,954; Dec. 20; Sp. p. 3302; Gaz. vol. 161; p. 584.
Mattress-holder. B. H. Rose. No. 968,886; Aug. 30; Sp. p. 6507; Gaz. vol. 157; p. 1133.
Mattress, Pneumatic. N. C. Hinsdale. No. 945,234; Jan. 4; Sp. p. 470; Gaz. vol. 150; p. 78.
Mattress, seat, and the like, Air. N. C. Hinsdale. No. 961,231; June 14; Sp. p. 2010; Gaz. vol. 155; p. 363.
Mattress side guard, Spring-. A. J. Kreuzkamp. No. 976,469; Nov. 22; Sp. p. 5281; Gaz. vol. 160; p. 896.
Mattress side guard, Spring-. J. Luppino. No. 976,480; Nov. 22; Sp. p. 5310; Gaz. vol. 160; p. 900.
Mattress, Spring-. S. P. Etter. No. 951,682; Mar. 8; Sp. p. 2471; Gaz. vol. 152; p. 428.
Mattress-spring fabric. J. J. Braznell. No. 947,192; Jan. 18; Sp. p. 4814; Gaz. vol. 150; p. 794.
Mattress, Wire. C. J. Witzel. (Reissue.) No. 13,125; June 28; Sp. p. 5842; Gaz. vol. 155; p. 1024.
Maturing process and apparatus therefor. J. E. Carroll. No. 968,832; Aug. 30; Sp. p. 6390; Gaz. vol. 157; p. 1115.
Mausoleum. J. B. King, W. E. Hughes, and F. W. Hall. No. 949,771; Feb. 22; Sp. p. 4160; Gaz. vol. 151; p. 752.
Mausoleum. V. Ernsberger. No. 952,985; Mar. 22; Sp. p. 5152; Gaz. vol. 152; p. 925.
Mausoleum. T. J. Moore. No. 975,779; Nov. 15; Sp. p. 3772; Gaz. vol. 160; p. 635.
Mausoleum. M. L. Knight. No. 979,965; Dec. 27; Sp. p. 5505; Gaz. vol. 161; p. 951.
Mausoleum structure. F. J. Walter. No. 977,493; Dec. 6; Sp. p. 144; Gaz. vol. 161; p. 25.
Maximum-demand meter. V. Karapetoff. No. 972,538; Oct. 11; Sp. p. 2228; Gaz. vol. 159; p. 385.
Meadows and pasture-fields, Implement for cleaning out. S. Jessen. No. 968,058; Aug. 23; Sp. p. 4713; Gaz. vol. 157; p. 823.
Measure. H. C. Harbridge. No. 960,906; June 7; Sp. p. 1338; Gaz. vol. 155; p. 225.
Measure, Grain-. A. Cosford. No. 967,172; Aug. 16; Sp. p. 2889; Gaz. vol. 157; p. 500.
Measure indicator, Liquid-. L. E. Carruthers. No. 968,323; Aug. 23; Sp. p. 5307; Gaz. vol. 157; p. 915.
Measure, Liquid-. S. N. Krawchenko. No. 961,452; June 14; Sp. p. 2489; Gaz. vol. 155; p. 438.
Measure, Tailor's. A. B. Reesberg. No. 950,403; Feb. 22; Sp. p. 5537; Gaz. vol. 151; p. 970.
Measure, Tailor's. J. E. Little. No. 979,866; Dec. 27; Sp. p. 5314; Gaz. vol. 161; p. 910.
Measure, Tape-. L. L. Joseph. No. 959,750; May 31; Sp. p. 7177; Gaz. vol. 154; p. 1218.
Measure, Tape-. C. F. Balch. No. 978,426; Dec. 13; Sp. p. 2184; Gaz. vol. 161; p. 378.
Measurement, Device for inseam. F. W. Jacobi. No. 949,931; Feb. 22; Sp. p. 4533; Gaz. vol. 151; p. 809.
Measurement gage, Outside or inside. C. E. Johansson. No. 949,276; Feb. 15; Sp. p. 3134; Gaz. vol. 151; p. 552.
Measurer. J. B. Martin and W. B. Millner. No. 961,628; June 14; Sp. p. 2871; Gaz. vol. 155; p. 496.
Measurer, Dry. J. J. Marshall. No. 975,701; Nov. 15; Sp. p. 3607; Gaz. vol. 160; p. 608.
Measuring and assorting balls, Machine for. H. McCornack. No. 951,254; Mar. 8; Sp. p. 1594; Gaz. vol. 152; p. 285.
Measuring and dispensing apparatus, Liquid. E. E. Murphy. No. 968,491; Aug. 23; Sp. p. 5643; Gaz. vol. 157; p. 972.
Measuring and dispensing can or tank. A. G. Sherman. No. 957,005; May 3; Sp. p. 1098; Gaz. vol. 154; p. 172.
Measuring and filling apparatus, Liquid. G. W. R. Culbertson and S. R. Clark. No. 969,090; Aug. 30; Sp. p. 6911; Gaz. vol. 157; p. 1203.
Measuring and filling machine. R. J. Workman. No. 961,741; June 14; Sp. p. 3094; Gaz. vol. 155; p. 535.
Measuring and recording device, Cloth. M. Shalansky. No. 975,373; Nov. 8; Sp. p. 2908; Gaz. vol. 160; p. 469.
Measuring and recording machine. A. B. Booth. No. 965,434; July 26; Sp. p. 5257; Gaz. vol. 156; p. 900.
Measuring and recording the flow of liquids. J. E. Lea. No. 965,915; Aug. 2; Sp. p. 142; Gaz. vol. 157; p. 24.

Alphabetical list of inventions—Continued.

Measuring and registering the oscillations of vibrating bodies, such as marine vessels, airships, railway-vehicles, and the like, Apparatus for. P. Ross. No. 957,908; May 17; Sp. p. 3000; Gaz. vol. 154; p. 540.

Measuring and vending device, Liquid. H. G. Cardley and E. Kleinschmidt. No. 968,743; Aug. 30; Sp. p. 6217; Gaz. vol. 157; p. 1086.

Measuring and weighing machine, Grain. C. D. Cromley. No. 948,289; Feb. 1; Sp. p. 1041; Gaz. vol. 151; p. 171.

Measuring apparatus. W. W. Nicholas, T. H. Kane, N. A. MacRae, and C. D. Gano. No. 945,796; Jan. 11; Sp. p. 1752; Gaz. vol. 150; p. 294.

Measuring apparatus. J. Sullivan and W. Rosenstock. No. 970,765; Sept. 20; Sp. p. 3491; Gaz. vol. 158; p. 597.

Measuring apparatus, Bootmaker's. W. Church. No. 962,744; June 28; Sp. p. 5297; Gaz. vol. 155; p. 925.

Measuring apparatus, Fish-. F. P. Renneburg. No. 953,436; Mar. 29; Sp. p. 6152; Gaz. vol. 152; p. 1104.

Measuring apparatus, Liquid-. E. S. Donisthorpe. No. 951,941; Mar. 15; Sp. p. 3018; Gaz. vol. 152; p. 546.

Measuring apparatus, Liquid-. D. C. Puderbaugh. No. 974,915; Nov. 8; Sp. p. 1897; Gaz. vol. 160; p. 313.

Measuring apparatus, Tailor's. S. S. Moritz. No. 972,705; Oct 11; Sp. p. 2589; Gaz. vol. 159; p. 442.

Measuring-bin. F. B. Carroll and J. L. Ricks. No. 975,208; Nov. 8; Sp. p. 2575; Gaz. vol. 160; p. 415.

Measuring current in three-phase systems, Means for. C. Wiler. No. 977,061; Nov. 29; Sp. p. 6585; Gaz. vol. 160; p. 1124.

Measuring device. J. R. Condon. No. 954,782; Apr. 12; Sp. p. 2355; Gaz. vol. 153; p. 407.

Measuring device. J. Lazarus. No. 955,519; Apr. 19; Sp. p. 3933; Gaz. vol. 153; p. 690.

Measuring device. S. Therrien. No. 955,719; Apr. 19; Sp. p. 4394; Gaz. vol. 153; p. 758.

Measuring device. C. J. Gillette. No. 976,066; Nov. 15; Sp. p. 4317; Gaz. vol. 160; p. 733.

Measuring device. H. L. Fellowes. No. 977,177; Nov. 29; Sp. p. 6861; Gaz. vol. 160; p. 1165.

Measuring device, Automatic liquid-. H. Morris. No. 962,911; June 28; Sp. p. 5614; Gaz. vol. 155; p. 983.

Measuring device, Foot-. J. H. Waite. No. 949,289; Feb. 15; Sp. p. 3161; Gaz. vol. 151; p. 557.

Measuring device, Foot-. R. E. Tilles. No. 967,464; Aug. 16; Sp. p. 3476; Gaz. vol. 157; p. 599.

Measuring device for skirts of dresses. J. W. MacDonald. No. 967,800; Aug. 16; Sp. p. 4158; Gaz. vol. 157; p. 713.

Measuring device, Ribbon and cloth. H. T. Quandahl. No. 953,800; Apr. 5; Sp. p. 235; Gaz. vol. 153; p. 42.

Measuring device, Skirt-. A. M. Allen. No. 970,006; Sept. 13; Sp. p. 1870; Gaz. vol. 158; p. 318.

Measuring device, Skirt-. J. W. Hawkins. No. 978,155; Dec. 13; Sp. p. 1600; Gaz. vol. 161; p. 284.

Measuring feet, lasts, and the like, Device for. W. Church. No. 973,475; Oct. 25; Sp. p. 4322; Gaz. vol. 159; p. 758.

Measuring flowing water, Apparatus for. W. A. Buis. No. 951,176; Mar. 8; Sp. p. 1443; Gaz. vol. 152; p. 261.

Measuring fluid flow, Device for. W. L. Morris. No. 967,953; Aug. 23; Sp. p. 4472; Gaz. vol. 157; p. 787.

Measuring-harness. F. De Feo. No. 947,542; Jan. 25; Sp. p. 5673; Gaz. vol. 150; p. 942.

Measuring instrument. Z. R. Tucker. No. 953,933; Apr. 5; Sp. p. 493; Gaz. vol. 153; p. 90.

Measuring instrument. R. Osterberg. No. 963,242; July 5; Sp. p. 539; Gaz. vol. 156; p. 77.

Measuring instrument. I. B. Hagan, Sr. No. 964,246; July 12; Sp. p. 2650; Gaz. vol. 156; p. 436.

Measuring instrument. T. J. Pitts. No. 965,324; July 26; Sp. p. 5019; Gaz. vol. 156; p. 863.

Measuring instrument. F. D. Glosser. No. 967,510; Aug. 16; Sp. p. 3587; Gaz. vol. 157; p. 615.

Measuring instrument. S. T. Derbyshire. No. 974,364; Nov. 1; Sp. p. 655; Gaz. vol. 160; p. 98.

Measuring instrument and similar tool. L. H. Nash. No. 953,282; Mar. 29; Sp. p. 5814; Gaz. vol. 152; p. 1052.

Measuring instrument, Compound. M. Clarke. No. 973,117; Oct. 18; Sp. p. 3531; Gaz. vol. 159; p. 611.

Measuring instrument, Electric. R. D. Hickok. No. 962,759; June 28; Sp. p. 5327; Gaz. vol. 155; p. 931.

Measuring instrument, Electrical. M. J. Wohl and H. Hertzberg. No. 947,267; Jan. 25; Sp. p. 4992; Gaz. vol. 150; p. 848.

Measuring instrument, Electrical. E. F. Northrup. No. 950,513; Mar. 1; Sp. p. 108; Gaz. vol. 152; p. 18.

Measuring instrument, Electrical. M. J. Wohl and H. Hertzberg. No. 950,647; Mar. 1; Sp. p. 393; Gaz. vol. 152; p. 63.

Measuring instrument, Electrical. P. MacGahan. No. 956,714; May 3; Sp. p. 463; Gaz. vol. 154; p. 74.

Measuring instrument, Electrical. F. W. Roller. No. 958,320; May 17; Sp. p. 4205; Gaz. vol. 154; p. 687.

Measuring instrument, Electrical. J. L. Zander. No. 958,792; May 24; Sp. p. 5175; Gaz. vol. 154; p. 871.

Measuring instrument, Electrical. C. E. Foster. No. 959,497; May 31; Sp. p. 6656; Gaz. vol. 154; p. 1134.

Measuring instrument, Electrical. S. M. Klntner. No. 959,551; May 31; Sp. p. 6776; Gaz. vol. 154; p. 1152.

Measuring instrument, Electrical. M. J. Wohl and H. Hertzberg. No. 973,152; Oct. 18; Sp. p. 3624; Gaz. vol. 159; p. 624.

Measuring instrument, Electrical. T. W. Varley. No. 978,518; Dec. 13; Sp. p. 2374; Gaz. vol. 161; p. 410.

Measuring instrument, Electricity-. J. Görner. No. 964,015; July 12; Sp. p. 2187; Gaz. vol. 156; p. 359.

Measuring instrument, Hot-wire electrical. J. T. Irwin. No. 964,521; July 19; Sp. p. 3241; Gaz. vol. 156; p. 559.

Measuring instrument, Portable electrical. W. E. Beede. No. 966,421; Aug. 9; Sp. p. 1198; Gaz. vol. 157; p. 218.

Measuring instrument, Proportional. J. C. Thompson. No. 967,267; Aug. 16; Sp. p. 3072; Gaz. vol. 157; p. 532.

Measuring instruments, Maximum-indicator for. C. D. Haskins. No. 963,147; July 5; Sp. p. 314; Gaz. vol. 156; p. 43.

Measuring-line, Surveyor's. T. H. Tracy. No. 950,581; Mar. 1; Sp. p. 249; Gaz. vol. 152; p. 41.

Measuring loads, Apparatus for. E. De Lorenzi. No. 954,262; Apr. 5; Sp. p. 1198; Gaz. vol. 153; p. 201.

Measuring-machine. J. F. Teehan. No. 966,871; Aug. 9; Sp. p. 2250; Gaz. vol. 157; p. 370.

Measuring machine, Cloth-. O. Ruhlin. No. 959,074; May 24; Sp. p. 5783; Gaz. vol. 154; p. 969.

Measuring machine, Grain-. C. D. Cromley. No. 948,290; Feb. 1; Sp. p. 1046; Gaz. vol. 151; p. 171.

Measuring machine, Grain-. H. Ray. No. 967,056; Aug. 9; Sp. p. 2639; Gaz. vol. 157; p. 433.

Measuring machine, Thread-. E. J. Rich. No. 947,580; Jan. 25; Sp. p. 5751; Gaz. vol. 150; p. 955.

Measuring machines, Bolt for cloth-. R. G. Nicholas. No. 952,933; Mar. 22; Sp. p. 5058; Gaz. vol. 152; p. 909.

Measuring mechanism. F. A. De Lay. No. 977,516; Dec. 6; Sp. p. 220; Gaz. vol. 161; p. 33.

Measuring mechanism, Rope-. H. H. Hayes. No. 960,321; June 7; Sp. p. 158; Gaz. vol. 155; p. 30.

Measuring or apportioning materials of a granular or other suitable form, Apparatus for. T. H. D. May. No. 958,965; May 24; Sp. p. 5548; Gaz. vol. 154; p. 932.

Measuring-rule for tailors. A. Tomaselli. No. 959,972; May 31; Sp. p. 7688; Gaz. vol. 154; p. 1296.

Measuring system and means therefor. A. E. Standen. No. 946,471; Jan. 11; Sp. p. 3299; Gaz. vol. 150; p. 530.

Measuring the flow of fluids. J. B. Speed. No. 970,965; Sept. 20; Sp. p. 3886; Gaz. vol. 158; p. 664.

Measuring the flow of liquids, Apparatus for. C. J. Clark. No. 948,872; Feb. 8; Sp. p. 2302; Gaz. vol. 151; p. 391.

Measuring vessel, Computing. J. Bergeron, Jr. No. 952,867; Mar. 22; Sp. p. 4925; Gaz. vol. 152; p. 887.

Measuring water for irrigation purposes, Means for. W. B. Gregory and A. M. Lockett. No. 967,512; Aug. 16; Sp. p. 3591; Gaz. vol. 157; p. 616.

Meat and bacon suspension-clamp. A Harnischfeger. No. 979,945; Dec. 27; Sp. p. 5468; Gaz. vol. 161; p. 945.

Meat and bone cutting machine. C. D. Nolan, J. E. Smith, and J. H. Nolan. No. 950,638; Mar. 1; Sp. p. 373; Gaz. vol. 152; p. 60.

Meat and fruit press. E. Walker. No. 962,603; June 28; Sp. p. 5011; Gaz. vol. 155; p. 876.

Meat-block, Revolving. J. F. Malone. No. 971,389; Sept. 27; Sp. p. 4759; Gaz. vol. 158; p. 832.

Meat-boning implement. H. Gelbman. No. 954,084; Apr. 5; Sp. p. 807; Gaz. vol. 153; p. 140.

Meat-case. F. M. Grant. No. 978,578; Dec. 13; Sp. p. 2529; Gaz. vol. 161; p. 431.

Meat-chopper. W. B. Yeakel. No. 970,593; Sept. 20; Sp. p. 3086; Gaz. vol. 158; p. 537.

Meat-clamp. B. W. Jackson. No. 949,900; Feb. 22; Sp. p. 4469; Gaz. vol. 151; p. 799.

Meat compound, Preparing a preserved. E. Toth. No. 949,336; Feb. 15; Sp. p. 3262; Gaz. vol. 151; p. 573.

Meat-defibering apparatus. H. P. Roberts. No. 961,019; June 7; Sp. p. 1569; Gaz. vol. 155; p. 263.

Meat-hanger. J. Fowler. No. 947,016; Jan. 18; Sp. p. 4491; Gaz. vol. 150; p. 739.

Meat-holder. G. L. Stark and A. W. Baxter. No. 974,199; Nov. 1; Sp. p. 213; Gaz. vol. 160; p. 35.

Meat, Packaging and preserving. L. Moore. No. 954,535; Apr. 12; Sp. p. 1792; Gaz. vol. 153; p. 322.

Meat-press. E. M. Johnson. No. 949,234; Feb. 15; Sp. p. 3046; Gaz. vol. 151; p. 539.

Meat-rack, Sanitary. W. L. Adlam. No. 959,685; May 31; Sp. p. 7045; Gaz. vol. 154; p. 1196.

Meat roller-press. C. G. Schmidt and C. Naegelen. No. 965,336; July 26; Sp. p. 5051; Gaz. vol. 156; p. 868.

Meat-siding machine. H. E. Conger and C. W. Waller. No. 970,994; Sept. 20; Sp. p. 3939; Gaz. vol. 158; p. 673.

Meat slicer and cutter, Combined. J. Winkelmeyer. No. 949,344; Feb. 15; Sp. p. 3286; Gaz. vol. 151; p. 576.

Meat-tenderer. A. G. W. Foster. No. 949,762; Feb. 22; Sp. p. 4143; Gaz. vol. 151; p. 749.

Meat-tenderer. O. Summerfield. No. 961,657; June 14; Sp. p. 2924; Gaz. vol. 155; p. 506.

Meat-tenderer. C. S. Miller. No. 965,477; July 26; Sp. p. 5349; Gaz. vol. 156; p. 915.

Meats and other articles, Machine for cutting. J. Kress. No. 952,819; Mar. 22; Sp. p. 4836; Gaz. vol. 152; p. 870.

Meats, Indelibly marking. J. Hauser. No. 958,960; May 24; Sp. p. 5538; Gaz. vol. 154; p. 930.

Mechanical agitator. C. S. Batdorf. No. 975,202; Nov. 8; Sp. p. 2555; Gaz. vol. 160; p. 413.

Mechanical movement. C. J. Robertson. No. 945,195; Jan. 4; Sp. p. 390; Gaz. vol. 150; p. 65.

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Mechanical movement. C. J. Robertson. No. 945,196; Jan. 4; Sp. p. 393; Gaz. vol. 150; p. 66.
Mechanical movement. C. J. Robertson. No. 945,197; Jan. 4; Sp. p. 396; Gaz. vol. 150; p. 66.
Mechanical movement. C. J. Robertson. No. 945,198; Jan. 4; Sp. p. 400; Gaz. vol. 150; p. 66.
Mechanical movement. C. J. Robertson. No. 945,199; Jan. 4; Sp. p. 403; Gaz. vol. 150; p. 67.
Mechanical movement. H. J. André. No. 945,835; Jan. 11; Sp. p. 1853; Gaz. vol. 150; p. 309.
Mechanical movement. D. C. Woodworth. No. 946,188; Jan. 11; Sp. p. 2596; Gaz. vol. 150; p. 431.
Mechanical movement. F. L. Bowles. No. 946,198; Jan. 11; Sp. p. 2613; Gaz. vol. 150; p. 434.
Mechanical movement. E. Hards. No 946,671; Jan. 18; Sp. p. 3710; Gaz. vol. 150; p. 620.
Mechanical movement. F. H. Richards. No. 947,473; Jan. 25; Sp. p. 5494; Gaz. vol. 150; p. 918.
Mechanical movement. F. H. Richards. No. 947,474; Jan. 25; Sp. p. 5504; Gaz. vol. 150; p. 919.
Mechanical movement. H. C. Gammeter. No. 948,782; Feb. 8; Sp. p. 2133; Gaz. vol. 151; p. 363.
Mechanical movement. J. L. Tomer. No. 952,383; Mar. 15; Sp. p. 3863; Gaz. vol. 152; p. 692.
Mechanical movement. R. Lindner. No. 954,116; Apr. 5; Sp. p. 873; Gaz. vol. 153; p. 151.
Mechanical movement. J. D. Windsor. No. 956,462; Apr. 26; Sp. p. 6016; Gaz. vol. 153; p. 1044.
Mechanical movement. T. Willi. No. 959,826; May 31; Sp. p. 7353; Gaz. vol. 154; p. 1244.
Mechanical movement. B. Huse. No. 960,936; June 7; Sp. p. 1388; Gaz. vol. 155; p. 234.
Mechanical movement. K. Hoepfner. No. 965,460; July 26; Sp. p. 5318; Gaz. vol. 156; p. 909.
Mechanical movement. C. J. Robertson. No. 965,941; Aug. 2; Sp. p. 191; Gaz. vol. 157; p. 33.
Mechanical movement. C. J. Robertson. No. 965,942; Aug. 2; Sp. p. 194; Gaz. vol. 157; p. 34.
Mechanical movement. H. A. W. Wood. No. 965,974; Aug. 2; Sp. p. 267; Gaz. vol. 157; p. 45.
Mechanical movement. F. D. Zimmerman. No. 967,699; Aug. 16; Sp. p. 3948; Gaz. vol. 157; p. 678.
Mechanical movement. A. T. Brown. No. 968,445; Aug. 23; Sp. p. 5541; Gaz. vol. 157; p. 956.
Mechanical movement. A. B. Kraeger. No. 968,482; Aug. 23; Sp. p. 5612; Gaz. vol. 157; p. 969.
Mechanical movement. E. G. Eberhardt. No. 969,352; Sept. 6; Sp. p. 424; Gaz. vol. 158; p. 68.
Mechanical movement. J. W. Pitts. No. 969,561; Sept. 6; Sp. p. 882; Gaz. vol. 158; p. 139.
Mechanical movement. J. H. Auble. No. 970,163; Sept. 13; Sp. p. 2173; Gaz. vol. 158; p. 370.
Mechanical movement. H. C. Clay. No. 972,162; Oct. 11; Sp. p. 1419; Gaz. vol. 159; p. 254.
Mechanical movement. A. Plagman. No. 972,236; Oct. 11; Sp. p. 1590; Gaz. vol. 159; p. 280.
Mechanical movement. W. A. Whitney. No. 975,591; Nov. 15; Sp. p. 3370; Gaz. vol. 160; p. 572.
Mechanical movement. C. R. Uebelmesser. No. 975,659; Nov. 15; Sp. p. 3526; Gaz. vol. 160; p. 595.
Mechanical movement. F. H. Richards. No. 976,916; Nov. 29; Sp. p. 6236; Gaz. vol. 160; p. 1073.
Mechanical movement. F. H. Richards. No. 976,918; Nov. 29; Sp. p. 6246; Gaz. vol. 160; p. 1074.
Mechanical movement. A. F. Victor. No. 976,953; Nov. 29; Sp. p. 6352; Gaz. vol. 160; p. 1087.
Mechanical movement, Electrothermal means for producing. A. A. Low, M. J. Wohl, and H. Hertzberg. No. 954,682; Apr. 12; Sp. p. 2118; Gaz. vol. 153; p. 371.
Mechanical movements, Controlling device for. C. H. Carter. No. 961,842; June 21; Sp. p. 3322; Gaz. vol. 155; p. 591.
Mechanical movements. Electrically-operated means for producing. M. J. Wohl and H. Hertzberg. No. 952,778; Mar. 22; Sp. p. 4755; Gaz. vol. 152; p. 856.
Mechanical players, Operating mechanism for. W. F. Cooper. No. 950,892; Mar. 1; Sp. p. 902; Gaz. vol. 152; p. 145.
Mechanic's furnace. P. R. Flamm. No. 961,596; June 14; Sp. p. 2809; Gaz. vol. 155; p. 486.
Medical eye-cup. J. S. Fox. No. 976,862; Nov. 29; Sp. p. 6124; Gaz. vol. 160; p. 1055.
Medical implement. M. J. Rogers. No. 949,382; Feb. 15; Sp. p. 3383; Gaz. vol. 151; p. 590.
Medical treatment, Vapor-generating apparatus for. J. Lespérance. No. 969,485; Sept. 6; Sp. p. 703; Gaz. vol. 158; p. 112.
Medicament and making the same. A. D. Barr. No. 966,643; Aug. 9; Sp. p. 1727; Gaz. vol. 157; p. 294.
Medicament and producing the same. A. D. Barr. No. 966,642; Aug. 9; Sp. p. 1726; Gaz. vol. 157; p. 294.
Medicaments, Preparing. A. Meyer. No. 948,930; Feb. 8; Sp. p. 2409; Gaz. vol. 151; p. 411.
Medicaments, Producing. A. D. Barr. No. 966,786; Aug. 9; Sp. p. 2069; Gaz. vol. 157; p. 344.
Medicated article. A. B. Klein. No. 977,635; Dec. 6; Sp. p. 493; Gaz. vol. 161; p. 74.
Medicated pad, Topical. C. P. L. Titherley. No. 967,688; Aug. 16; Sp. p. 3929; Gaz. vol. 157; p. 674.
Medicated tampons. J. C. Dorr. No. 961,689; June 14; Sp. p. 2984; Gaz. vol. 155; p. 517.
Medicinal compound, Making. A. Garicsan. No. 957,204; May. 10; Sp. p. 1527; Gaz. vol. 154; p. 270.
Medicinal preparation. C. Heinzinger. No. 960,915; June 7; Sp. p. 1353; Gaz. vol. 155; p. 227.
Medicine-dose dropper. M. Cunningham. No. 978,988; Dec. 20; Sp. p. 3390; Gaz. vol. 161; p. 596.
Megaphone. L. B. Purcell. No. 958,680; May 17; Sp. p. 4911; Gaz. vol. 154; p. 806.
Melting and refining furnace, Electric. H. Nathusius. No. 958,757; May 24; Sp. p. 5083; Gaz. vol. 154; p. 859.
Melting-furnace. J. A. Leiter and C. P. Oakman. No. 969,066; Aug. 30; Sp. p. 6865; Gaz. vol. 157; p. 1194.
Melting furnace, Metal-. W. Scott. No. 979,101; Dec. 20; Sp. p. 3647; Gaz. vol. 161; p. 634.
Melting-furnace, Oil-heated. A. T. Brown. No. 975,826; Nov. 15; Sp. p. 3856; Gaz. vol. 160; p. 651.
Melting-furnaces, Charging. M. R. Conley. No. 975,751; Nov. 15; Sp. p. 3711; Gaz. vol. 160; p. 626.
Memorandum case and register. J. N. Stacy. No. 965,141; July 19; Sp. p. 4621; Gaz. vol. 156; p. 770.
Memorandum device. F. Van Anden. No. 978,962; Dec. 20; Sp. p. 3334; Gaz. vol. 161; p. 587.
Memorandum-rack. R. D. A. Parrott. No. 970,103; Sept. 13; Sp. p. 2065; Gaz. vol. 158; p. 350.
Menu-card holder. W. H. Sawyer. No. 970,399; Sept. 13; Sp. p. 2661; Gaz. vol. 158; p. 450.
Menu-cards, newspapers, and other articles, Support for. H. P. Darche and A. Schwer. No. 948,955; Feb. 8; Sp. p. 2468; Gaz. vol. 151; p. 419.
Mercerizing, dyeing, or like treatment of loose or woven cotton or other vegetable fiber, Machine for. J. H. Robson. No. 975,074; Nov. 8; Sp. p. 2258; Gaz. vol. 160; p. 368.
Merchandise-transfer system. G. Macartney. No. 945,562; Jan. 4; Sp. p. 1200; Gaz. vol. 150; p. 185.
Merchandising-sample. S. H. Stix. No. 946,165; Jan. 11; Sp. p. 2538; Gaz. vol. 150; p. 423.
Mercury compound, Organic. M. Engelmann. No. 978,145; Dec. 13; Sp. p. 1585; Gaz. vol. 161; p. 281.
Mercury-dropper, Automatic. E. C. Ketchum. No. 966,840; Aug. 9; Sp. p. 2190; Gaz. vol. 157; p. 360.
Mercury-switch. H. Koch. No. 972,542; Oct. 11; Sp. p. 2239; Gaz. vol. 159; p. 386.
Merry-go-round. J. S. Tuttle. No. 947,954; Feb. 1; Sp. p. 369; Gaz. vol. 151; p. 59.
Merry-go-round. A. B. Foans. No. 952,242; Mar. 15; Sp. p. 3586; Gaz. vol. 152; p. 645.
Merry-go-round. J. D. Walsh. No. 953,808; Apr. 5; Sp. p. 254; Gaz. vol. 153; p. 45.
Merry-go-round. F. C. Angwin. No. 963,495; July 5; Sp. p. 1065; Gaz. vol. 156; p. 162.
Merry-go-round. W. J. McLevie. No. 966,229; Aug. 2; Sp. p. 829; Gaz. vol. 157; p. 132.
Merry-go-round. J. A. Sherry. No. 977,560; Dec. 6; Sp. p. 336; Gaz. vol. 161; p. 49.
Merry-go-round, Aquatic. H. Healy. No. 953,266; Mar. 29; Sp. p. 5787; Gaz. vol. 152; p. 1047.
Mess-kit. C. A. Dodge. No. 971,179; Sept. 27; Sp. p. 4352; Gaz. vol. 158; p. 763.
Metal and glass, Cleaning articles of. H. I. Manley. No. 951,824; Mar. 15; Sp. p. 2766; Gaz. vol. 152; p. 506.
Metal and making the same, Compound. W. M. Page. No. 949,837; Feb. 22; Sp. p. 4303; Gaz. vol. 151; p. 775.
Metal and the like, Apparatus for manufacturing leaf. L. Kurz. No. 946,676; Jan. 18; Sp. p. 3720; Gaz. vol. 150; p. 622.
Metal, Apparatus for recovering material from scrap. S. W. Egbert. No. 945,024; Jan. 4; Sp. p. 28; Gaz. vol. 150; p. 7.
Metal articles, Apparatus for cleaning. J. D. Phillips and C. Hambuechen. No. 945,866; Jan. 11; Sp. p. 1922; Gaz. vol. 150; p. 319.
Metal articles, Cleaning. J. D. Phillips and C. Hambuechen. No. 945,865; Jan. 11; Sp. p. 1920; Gaz. vol. 150; p. 319.
Metal articles, Process of and apparatus for cutting compound. J. F. Monnot. No. 973,376; Oct. 18; Sp. p. 4113; Gaz. vol. 159; p. 702.
Metal band. J. A. Gray. No. 954,093; Apr. 5; Sp. p. 837; Gaz. vol. 153; p. 144.
Metal bar or member, Expanded. H. K. Dyson. No. 977,285; Nov. 29; Sp. p. 7069; Gaz. vol. 160; p. 1202.
Metal bars, bands, tubes, wires, fibers, &c., Producing. O. Schaller. No. 947,162; Jan. 18; Sp. p. 4754; Gaz. vol. 150; p. 783.
Metal bars, Machine for bending. R. Anderson. No. 947,288; Jan. 25; Sp. p. 5061; Gaz. vol. 150; p. 856.
Metal bars, Machine for cutting. H. H. Jensen. No. 962,085; June 21; Sp. p. 3856; Gaz. vol. 155; p. 674.
Metal bars, Machine for slitting and flanging. A. Priddle. No. 955,431; Apr. 19; Sp. p. 3746; Gaz. vol. 153; p. 658.
Metal-bending machine. H. E. Parmenter. No. 956,541; May 3; Sp. p. 71; Gaz. vol. 154; p. 14.
Metal-bending machine. J. E. Erickson. No. 965,171; July 26; Sp. p. 4685; Gaz. vol. 156; p. 812.
Metal-bending machine. E. B. Fahnestock. No. 979,142; Dec. 20; Sp. p. 3757; Gaz. vol. 161; p. 651.
Metal-bending tool. L. P. Hazen. No. 960,910; June 7; Sp. p. 1343; Gaz. vol. 155; p. 226.
Metal-blank-heading machine. A. C. Campbell. No. 959,454; May 31; Sp. p. 6548; Gaz. vol. 154; p. 1119.

Metal bodies, Making compound. J. F. Monnot. No. 972,630; Oct. 11; Sp. p. 2454; Gaz. vol. 159; p. 417.
Metal bodies, Producing compound. J. F. Monnot. No. 971,135; Sept. 27; Sp. p. 4238; Gaz. vol. 158; p. 748.
Metal bodies, Producing compound. J. F. Monnot. No. 971,136; Sept. 27; Sp. p. 4240; Gaz. vol. 158; p. 748.
Metal body and making same, Compound. J. F. Monnot. No. 947,392; Jan. 25; Sp. p. 5309; Gaz. vol. 150; p. 892.
Metal box and crate. G. Klenk. No. 959,553; May 31; Sp. p. 6781; Gaz. vol. 154; p. 1153.
Metal, Cast. R. C. Totten. No. 947,263; Jan. 25; Sp. p. 4986; Gaz. vol. 150; p. 847.
Metal-clenching machine. H. C. Ferguson. No. 977,178; Nov. 29; Sp. p. 6863; Gaz. vol. 160; p. 1165.
Metal clip. J. W. Shirer. No. 955,003; Apr. 12; Sp. p. 2852; Gaz. vol. 153; p. 484.
Metal, Composition. J. Naulty and J. Scanlin. No. 959,156; May 24; Sp. p. 5945; Gaz. vol. 154; p. 995.
Metal, Composition of elements to be used for the manufacture of an improved quality of. C. R. Bryson. No. 952,069; Mar. 15; Sp. p. 3259; Gaz. vol. 152; p. 587.
Metal cords, Machine for manufacturing. K. F. Ungerer and E. Becker. No. 979,110; Dec. 20; Sp. p. 3683; Gaz. vol. 161; p. 639.
Metal corner. C. Mörk. No. 976,134; Nov. 15; Sp. p. 4488; Gaz. vol. 160; p. 757.
Metal-creasing machine. H. C. H. Walsh. No. 975,185; Nov. 8; Sp. p. 2516; Gaz. vol. 160; p. 407.
Metal-cutting machine. E. G. Todt. No. 958,196; May 17; Sp. p. 3803; Gaz. vol. 154; p. 643.
Metal-cutting machine. E. G. Todt. No. 958,197; May 17; Sp. p. 3804; Gaz. vol. 154; p. 643.
Metal-cutting machine. W. Ross. No. 962,530; June 28; Sp. p. 4842; Gaz. vol. 155; p. 851.
Metal-cutting tool. C. K. Lassiter. No. 965,587; July 26; Sp. p. 5610; Gaz. vol. 156; p. 955.
Metal, Electrolytic separation of. E. M. Chance and E. Kent. No. 948,681; Feb. 8; Sp. p. 1912; Gaz. vol. 151; p. 328.
Metal, Expanded. N. E. Clark. No. 948,414; Feb. 8; Sp. p. 1339; Gaz. vol. 151; p. 239.
Metal flats and the like, Treating rolled. F. H. Daniels. No. 956,302; Apr. 26; Sp. p. 5683; Gaz. vol. 153; p. 989.
Metal-founding. C. B. Carter. No. 974,024; Oct. 25; Sp. p. 5476; Gaz. vol. 159; p. 949.
Metal-frame screen. S. W. McGrath. No. 947,838; Feb. 1; Sp. p. 100; Gaz. vol. 151; p. 21.
Metal-frame screen. J. B. Williams. No. 961,053; June 7; Sp. p. 1635; Gaz. vol. 155; p. 274.
Metal-furnace. A. Fisher. No. 958,384; May 17; Sp. p. 4337; Gaz. vol. 154; p. 708.
Metal grit, Apparatus for the manufacture of. P. B. and W. Martyn. No. 952,828; Mar. 22; Sp. p. 4853; Gaz. vol. 152; p. 873.
Metal heading, punching, and trimming machines, Blank-feed for. A. C. Campbell. No. 959,455; May 31; Sp. p. 6552; Gaz. vol. 154; p. 1119.
Metal heating and separating apparatus. J. H. Reid. No. 950,028; Feb. 22; Sp. p. 4803; Gaz. vol. 151; p. 845.
Metal-heating means. E. F. Gehrkens. No. 970,488; Sept. 20; Sp. p. 2865; Gaz. vol. 158; p. 501.
Metal hoop. J. E. Wright. No. 972,973; Oct. 18; Sp. p. 3234; Gaz. vol. 159; p. 562.
Metal-joiner. J. Smith. No. 968,994; Aug. 30; Sp. p. 6713; Gaz. vol. 157; p. 1169.
Metal machine, Expanded-. R. Holding. No. 952,524; Mar. 22; Sp. p. 4171; Gaz. vol. 152; p. 767.
Metal, Machine for attaching fabric to. L. W. Rhoades. No. 956,173; Apr. 26; Sp. p. 5388; Gaz. vol. 153; p. 946.
Metal manufacture, Expanded-. N. E. Clark. No. 947,794; Feb. 1; Sp. p. 32; Gaz. vol. 151; p. 8.
Metal manufacture, Expanded-. N. E. Clark. No. 979,130; Dec. 20; Sp. p. 3736; Gaz. vol. 161; p. 647.
Metal-melting furnace. A. H. Oakley. No. 967,421; Aug. 16; Sp. p. 3402; Gaz. vol. 157; p. 586.
Metal-mixer safety device. M. M. Suppes. No. 978,675; Dec. 13; Sp. p. 2728; Gaz. vol. 161; p. 465.
Metal-mold. P. Mueller. No. 951,962; Mar. 15; Sp. p. 3056; Gaz. vol. 152; p. 552.
Metal-molding crimper. T. J. Williams. No. 973,093; Oct. 18; Sp. p. 3487; Gaz. vol. 159; p. 602.
Metal, Narrowing slits punched in plates of hard. P. Baur. No. 965,855; Aug. 2; Sp. p. 17; Gaz. vol. 157; p. 6.
Metal object, Compound. J. F. Monnot. No. 960,372; June 7; Sp. p. 274; Gaz. vol. 155; p. 47.
Metal objects, Method of and apparatus for producing coated. J. F. Monnot. No. 972,561; Oct. 11; Sp. p. 2279; Gaz. vol. 159; p. 393.
Metal objects, Method of and apparatus for producing coated. J. F. Monnot. No. 972,629; Oct. 11; Sp. p. 2449; Gaz. vol. 159; p. 417.
Metal of high grade from metal of low grade, Producing. L. A. Leonard and J. P. Larrimer. No. 970,728; Sept. 20; Sp. p. 3401; Gaz. vol. 158; p. 583.
Metal pipe. G. A. Lutz. No. 952,077; Mar. 15; Sp. p. 3273; Gaz. vol. 152; p. 589.
Metal-planer. G. E. Greenleaf. No. 972,363; Oct. 11; Sp. p. 1841; Gaz. vol. 159; p. 322.
Metal plates, Machine for upsetting. C. L. Parmelee. No. 945,798; Jan. 11; Sp. p. 1754; Gaz. vol. 150; p. 294.
Metal-plating. L. M. Willey. No. 955,446; Apr. 19; Sp. p. 3775; Gaz. vol. 153; p. 663.
Metal-polish. F. N. Pease and M. E. McDonnell. No. 972,638; Oct. 11; Sp. p. 2471; Gaz. vol. 159; p. 420.
Metal-polishing compound. W. Brenton. No. 951,676; Mar. 8; Sp. p. 2463; Gaz. vol. 152; p. 426.
Metal-press, Hydraulic. J. T. J. Seifert. No. 974,195; Nov. 1; Sp. p. 203; Gaz. vol. 160; p. 34.
Metal, Producing hollow articles of. W. Griffith. No. 959,518; May 31; Sp. p. 6704; Gaz. vol. 154; p. 1141.
Metal, Recovering. A. W. Diack. No. 969,253; Sept. 6; Sp. p. 225; Gaz. vol. 158; p. 36.
Metal-reducing machine. B. M. W. Hanson. No. 955,642; Apr. 19; Sp. p. 4210; Gaz. vol. 153; p. 731.
Metal-reducing process. F. W. Gordon. No. 974,257; Nov. 1; Sp. p. 389; Gaz. vol. 160; p. 57.
Metal-reinforced box. A. P. Craig. No. 965,875; Aug. 2; Sp. p. 55; Gaz. vol. 157; p. 11.
Metal roller. A. Gross. No. 976,171; Nov. 22; Sp. p. 4601; Gaz. vol. 160; p. 791.
Metal salts and metals, Producing. J. W. Beckman. No. 973,336; Oct. 18; Sp. p. 4023; Gaz. vol. 159; p. 688.
Metal-sawing machine. W. L. Field. No. 958,614; May 17; Sp. p. 4784; Gaz. vol. 154; p. 785.
Metal-scrap compressor. S. W. Egbert. No. 975,844; Nov. 15; Sp. p. 3891; Gaz. vol. 160; p. 657.
Metal-scraping machine. P. R. Bissell. No. 953,117; Mar. 29; Sp. p. 5465; Gaz. vol. 152; p. 998.
Metal-scraping machine. P. R. Bissell. No. 957,031; May 3; Sp. p. 1151; Gaz. vol. 154; p. 182.
Metal screen. H. W. and W. W. Watson. No. 956,239; Apr. 26; Sp. p. 5549; Gaz. vol. 153; p. 968.
Metal seat and the like. H. U. Hart. No. 951,371; Mar. 8; Sp. p. 1851; Gaz. vol. 152; p. 323.
Metal-shaping apparatus. W. T. McCreavy. No. 973,682; Oct. 25; Sp. p. 4771; Gaz. vol. 159; p. 829.
Metal-shaping machine. G. Sonnenthal and H. Bamford. No. 976,754; Nov. 22; Sp. p. 5881; Gaz. vol. 160; p. 993.
Metal-shear. H. Taylor. No. 959,035; May 24; Sp. p. 5684; Gaz. vol. 154; p. 955.
Metal-shears. S. L. Bradley. No. 950,039; Feb. 22; Sp. p. 4825; Gaz. vol. 151; p. 848.
Metal-shearing machine. C. C. Goble. No. 973,032; Oct. 18; Sp. p. 3368; Gaz. vol. 159; p. 583.
Metal sheets, Apparatus for producing corrugated-. G. B. Johnson. No. 971,277; Sept. 27; Sp. p. 4546; Gaz. vol. 158; p. 795.
Metal sheets or bars, Machine for cutting out articles from. F. Malton. No. 972,203; Oct. 11; Sp. p. 1509; Gaz. vol. 159; p. 268.
Metal sheets, Treating. A. Ridd. No. 961,462; June 14; Sp. p. 2508; Gaz. vol. 155; p. 441.
Metal-slitting machine. H. K. Dyson. No. 955,776; Apr. 19; Sp. p. 4496; Gaz. vol. 153; p. 776.
Metal straightening and cutting-off machine, Strip-. F. B. Shuster. No. 973,571; Oct. 25; Sp. p. 4525; Gaz. vol. 159; p. 790.
Metal structural work, Testing and marking. P. S. Hildreth. No. 974,269; Nov. 1; Sp. p. 424; Gaz. vol. 160; p. 63.
Metal structure. P. M. Wege. No. 956,556; May 3; Sp. p. 101; Gaz. vol. 154; p. 19.
Metal to a molten state suitable for casting, Reducing. W. S. Brian. No. 964,896; July 19; Sp. p. 4143; Gaz. vol. 156; p. 690.
Metal-transfer apparatus. S. Dillon. No. 965,282; July 26; Sp. p. 4917; Gaz. vol. 156; p. 848.
Metal-treating apparatus. G. A. Goodson. No. 978,448; Dec. 13; Sp. p. 2221; Gaz. vol. 161; p. 385.
Metal-turning tool-holder and tool. G. Goetz. No. 946,599; Jan. 18; Sp. p. 3547; Gaz. vol. 150; p. 597.
Metal wall, Flexible corrugated-. W. M. Fulton. No. 967,010; Aug. 9; Sp. p. 2534; Gaz. vol. 157; p. 417.
Metal wheel. A. O. Kummero. No. 971,620; Oct. 4; Sp. p. 241; Gaz. vol. 159; p. 43.
Metal wheel, Pressed-. A. Thompson. No. 980,023; Dec. 27; Sp. p. 5614; Gaz. vol. 161; p. 971.
Metal wheels, Forming flanged. E. E. Slick. No. 965,039; July 19; Sp. p. 4428; Gaz. vol. 156; p. 737.
Metal wheels, Forming flanged. E. E. Slick. No. 965,041; July 19; Sp. p. 4432; Gaz. vol. 156; p. 738.
Metal-working and other machines, Work-feeding device for. A. W. Wigglesworth. No. 972,588; Oct. 11; Sp. p. 2360; Gaz. vol. 159; p. 403.
Metal-working apparatus. T. F. Baily. No. 960,772; June 7; Sp. p. 1083; Gaz. vol. 155; p. 181.
Metal-working machine. B. M. W. Hanson. No. 945,387; Jan. 4; Sp. p. 830; Gaz. vol. 150; p. 129.
Metal-working machine. B. M. W. Hanson. No. 945,456; Jan. 4; Sp. p. 958; Gaz. vol. 150; p. 151.
Metal-working machine. W. S. Davenport. No. 963,691; July 5; Sp. p. 1444; Gaz. vol. 156; p. 227.
Metal-working machine. H. Hess. No. 970,330; Sept. 13; Sp. p. 2532; Gaz. vol. 158; p. 427.
Metal-working machine. B. M. W. Hanson. No. 971,887; Oct. 4; Sp. p. 807; Gaz. vol. 159; p. 139.
Metal-working machine. B. M. W. Hanson. No. 974,056; Oct. 25; Sp. p. 5532; Gaz. vol. 159; p. 959.

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Metal-working machines, Work-holding mechanism for. F. O. Farwell. No. 965,575; July 26; Sp. p. 5590; Gaz. vol. 156; p. 951.
Metal-working machinery, Stroke-adjusting means in. N. B. Chace and A. R. Murray. No. 966,524; Aug. 9; Sp. p. 1483; Gaz. vol. 157; p. 255.
Metals and the like from extraneous matter, Apparatus for separating. R. M. Simpson. No. 957,478; May 10; Sp. p. 2098; Gaz. vol. 154; p. 364.
Metals, Apparatus for removing tarnish from. M. H. Keyt. No. 959,227; May 24; Sp. p. 6092; Gaz. vol. 154; p. 1018.
Metals, Composition of matter to be used for the purpose of fluxing. M. P. Jewett. No. 977,406; Nov. 29; Sp. p. 7354; Gaz. vol. 160; p. 1244.
Metals dense in liquid state, Means for making. W. B. Bary. No. 964,371; July 12; Sp. p. 2894; Gaz. vol. 156; p. 478.
Metals electrolytically, Extracting. J. H. Robertson. No. 978,211; Dec. 13; Sp. p. 1723; Gaz. vol. 161; p. 303.
Metals, Elimination of. G. H. Clamer. No. 970,686; Sept. 20; Sp. p. 3314; Gaz. vol. 158; p. 570.
Metals, Enameling. G. L. Rice and B. W. Gilchrist. No. 971,641; Oct. 4; Sp. p. 277; Gaz. vol. 159; p. 49.
Metals, Expelling gases from. W. S. Rockey and H. Eldridge. No. 979,204; Dec. 20; Sp. p. 3884; Gaz. vol. 161; p. 672.
Metals from cyanid solutions, Precipitation of. S. F. Kirkpatrick. No. 959,757; May 31; Sp. p. 7193; Gaz. vol. 154; p. 1220.
Metals from solutions, Electrolytic apparatus for recovering. W. A. Hendryx. No. 949,016; Feb. 15; Sp. p. 2613; Gaz. vol. 151; p. 467.
Metals from their ores, Extracting. W. E. Greenawalt. No. 968,651; Aug. 30; Sp. p. 5996; Gaz. vol. 157; p. 1054.
Metals from their ores, Extracting. W. E. Greenawalt. No. 968,652; Aug. 30; Sp. p. 6002; Gaz. vol. 157; p. 1055.
Metals from their ores, Extracting. W. E. Greenawalt. No. 968,845; Aug. 30; Sp. p. 6417; Gaz. vol. 157; p. 1118.
Metals from their ores, Extracting. W. E. Greenawalt. No. 973,776; Oct. 25; Sp. p. 4955; Gaz. vol. 159; p. 862.
Metals from wet-process liquors, Separating. J. H. Thwaites and S. J. Ralph. No. 972,584; Oct. 11; Sp. p. 2349; Gaz. vol. 159; p. 402.
Metals, Heating and melting. W. N. Best. No. 961,674; June 14; Sp. p. 2961; Gaz. vol. 155; p. 512.
Metals, Hot-working. J. F. Monnot. No. 972,559; Oct. 11; Sp. p. 2272; Gaz. vol. 159; p. 393.
Metals in solution, Separating. W. S. Gates and H. H. Dow. No. 956,763; May 3; Sp. p. 564; Gaz. vol. 154; p. 90.
Metals, Means for applying fluid. W. H. Smyth. No. 975,731; Nov. 15; Sp. p. 3666; Gaz. vol. 160; p. 619.
Metals, Process of and means for depositing. A. Rosenberg. No. 970,852; Sept. 20; Sp. p. 3680; Gaz. vol. 158; p. 629.
Metals, Reducing. R. J. McNitt. No. 959,785; May 31; Sp. p. 7239; Gaz. vol. 154; p. 1230.
Metals, Uniting. W. Griffith. No. 959,517; May 31; Sp. p. 6703; Gaz. vol. 154; p. 1140.
Metals, Uniting. W. G. Grey and W. Griffith. No. 976,455; Nov. 22; Sp. p. 5256; Gaz. vol. 160; p. 892.
Metals, Uniting. W. G. Grey and W. Griffith. No. 976,456; Nov. 22; Sp. p. 5257; Gaz. vol. 160; p. 892.
Metallic article, Coated. W. C. Robinson. No. 951,580; Mar. 8; Sp. p. 2269; Gaz. vol. 152; p. 393.
Metallic characters to leather and the like, Attaching. N. M. Stanley. No. 961,550; June 14; Sp. p. 2714; Gaz. vol. 155; p. 471.
Metallic fabric. F. Momburg. No. 965,314; July 26; Sp. p. 4996; Gaz. vol. 156; p. 860.
Metallic-fabric-assembling machine. J. F. Gail. No. 967,011; Aug. 9; Sp. p. 2537; Gaz. vol. 157; p. 417.
Metallic fabric, Making. M. and L. S. Lachman. No. 974,891; Nov. 8; Sp. p. 1833; Gaz. vol. 160; p. 305.
Metallic fabric, Making. M. and L. S. Lachman. No. 974,892; Nov. 8; Sp. p. 1835; Gaz. vol. 160; p. 306.
Metallic films or flakes, Apparatus for making. T. A. Edison. No. 950,227; Feb. 22; Sp. p. 5205; Gaz. vol. 151; p. 912.
Metallic leaf in rolls, Machine for packaging. C. E. Smith. No. 975,472; Nov. 15; Sp. p. 3110; Gaz. vol. 160; p. 531.
Metallic leaf, Means for booking. C. E. Smith. No. 949,850; Feb. 22; Sp. p. 4330; Gaz. vol. 151; p. 780.
Metallic mold. H. G. Larzelere. No. 946,233; Jan. 11; Sp. p. 2690; Gaz. vol. 150; p. 447.
Metallic oxids, Reducing. C. M. Johnson. No. 964,868; July 19; Sp. p. 4082; Gaz. vol. 156; p. 681.
Metallic screen. H. A. Way. No. 956,614; May 3; Sp. p. 231; Gaz. vol. 154; p. 39.
Metallic sheathing. S. W. Banning. No. 950,832; Mar. 1; Sp. p. 798; Gaz. vol. 152; p. 127.
Metallic sheathing. E. G. Budd. No. 973,622; Oct. 25; Sp. p. 4640; Gaz. vol. 159; p. 807.
Metallic siding. W. F. Bonness. No. 978,834; Dec. 20; Sp. p. 3036; Gaz. vol. 161; p. 540.
Metallic silicids, Manufacture of. G. Strauss. No. 948,190; Feb. 1; Sp. p. 838; Gaz. vol. 151; p. 138.
Metallic silicids, Manufacture of. G. Strauss. No. 964,459; July 12; Sp. p. 3075; Gaz. vol. 156; p. 505.
Metallic structure. M. and L. S. Lachman. No. 966,756; Aug. 9; Sp. p. 2014; Gaz. vol. 157; p. 335.
Metallic substance, Pyrophoric. A. Huber. No. 967,775; Aug. 9; Sp. p. 4115; Gaz. vol. 157; p. 705.
Metallic surfaces, Hardening. J. H. Reid. No. 966,121; Aug. 2; Sp. p. 582; Gaz. vol. 157; p. 95.
Metallic tie. E. Cronin. No. 956,628; May 3; Sp. p. 260; Gaz. vol. 154; p. 43.
Metallic tie. A. C. Dinkey. No. 966,175; Aug. 2; Sp. p. 719; Gaz. vol. 157; p. 113.
Metallic tie. R. A. Finley and J. S. Glaspy. No. 966,895; Aug. 9; Sp. p. 2303; Gaz. vol. 157; p. 378.
Metallic tie and rail-fastener. W. H. Chamberlain. No. 954,254; Apr. 5; Sp. p. 1185; Gaz. vol. 153; p. 198.
Metallic tie and rail-fastener. D. B. Postlethwait. No. 973,459; Oct. 18; Sp. p. 4282; Gaz. vol. 159; p. 729.
Metallic tie and rail-fastener. S. Stammler. No. 975,902; Nov. 15; Sp. p. 4014; Gaz. vol. 160; p. 677.
Metallic wheel. S. Strobl. No. 965,492; July 26; Sp. p. 5374; Gaz. vol. 156; p. 920.
Metallurgical apparatus. M. Moore and T. J. Heskett. No. 960,988; June 7; Sp. p. 1499; Gaz. vol. 155; p. 252.
Metallurgical furnace. S. Z. de Ferranti. No. 962,013; June 21; Sp. p. 3685; Gaz. vol. 155; p. 648.
Metallurgical furnace. J. E. Jones. No. 968,954; Aug. 30; Sp. p. 6640; Gaz. vol. 157; p. 1156.
Metallurgical furnace. S. Z. de Ferranti. No. 969,261; Sept. 6; Sp. p. 239; Gaz. vol. 158; p. 39.
Metallurgical heating. B. E. Eldred. No. 968,238; Aug. 23; Sp. p. 5128; Gaz. vol. 157; p. 883.
Metallurgical process. M. Moore and T. J. Heskett. No. 960,987; June 7; Sp. p. 1497; Gaz. vol. 155; p. 251.
Metallurgical process. T. L. Willson and M. M. Haff. No. 963,345; July 5; Sp. p. 765; Gaz. vol. 156; p. 112.
Metallurgical process. J. C. Morris. No. 979,541; Dec. 27; Sp. p. 4581; Gaz. vol. 161; p. 807.
Meter: *See* Condensation-meter; Dry meter; Electric meter; Electric service-meter; Electrical meter; Electricity-meter; Gas-meter; Induction-meter; Linear meter; Liquid-meter; Maximum-demand meter; Motor-meter; Speed-meter; Steam-meter; Telephone-meter; Water-meter.
Meter. R. L. Rickman. No. 964,695; July 19; Sp. p. 3736; Gaz. vol. 156; p. 621.
Meter. R. L. Rickman. (Reissue.) No. 13,184; Dec. 20; Sp. p. 4284; Gaz. vol. 161; p. 736.
Meter-box. L. P. Andrews. No. 950,270; Feb. 22; Sp. p. 5293; Gaz. vol. 151; p. 927.
Meter-box. J. W. Butts. No. 976,038; Nov. 15; Sp. p. 4268; Gaz. vol. 160; p. 724.
Meter-box. H. M. Lofton. No. 978,384; Dec. 13; Sp. p. 2094; Gaz. vol. 161; p. 365.
Meter-box top. E. H. Ford. No. 974,650; Nov. 1; Sp. p. 1305; Gaz. vol. 160; p. 201.
Meter-connection block. G. E. Palmer. No. 978,636; Dec. 13; Sp. p. 2656; Gaz. vol. 161; p. 451.
Meter-lock. I. W. Norcross. No. 964,681; July 19; Sp. p. 3701; Gaz. vol. 156; p. 616.
Meter-panel. H. Krantz. No. 961,142; June 14; Sp. p. 1816; Gaz. vol. 155; p. 330.
Meter-prover. R. L. Dezendorf. No. 964,956; July 19; Sp. p. 4253; Gaz. vol. 156; p. 711.
Meter-register. L. H. Nash. No. 957,082; May 3; Sp. p. 1252; Gaz. vol. 154; p. 199.
Meter-setting means. E. H. Ford. No. 974,651; Nov. 1; Sp. p. 1307; Gaz. vol. 160; p. 202.
Meter-shelf. S. Schwartz. No. 970,854; Sept. 20; Sp. p. 3686; Gaz. vol. 158; p. 629.
Meter system. J. A. Tilden. No. 971,510; Sept. 27; Sp. p. 4972; Gaz. vol. 158; p. 871.
Meter-testing device. H. P. Westcott. No. 949,640; Feb. 15; Sp. p. 3881; Gaz. vol. 151; p. 676.
Meters, Automatic billing-machine for. R. W. Gallagher. No. 960,533; June 7; Sp. p. 598; Gaz. vol. 155; p. 97.
Meters, Bill-delivery mechanism for. R. W. Gallagher. No. 946,961; Jan. 18; Sp. p. 4379; Gaz. vol. 150; p. 720.
Meters, Nutating disk for. A. G. Holmes. No. 951,787; Mar. 8; Sp. p. 2693; Gaz. vol. 152; p. 464.
Meters, Port-plate for rotary. E. C. Brown. No. 972,156; Oct. 11; Sp. p. 1408; Gaz. vol. 159; p. 253.
Meters, Shunt for electric. R. C. Lanphier. No. 958,508; May 17; Sp. p. 4575; Gaz. vol. 154; p. 751.
Meters, Volume-recording attachment for fluid-. H. P. Westcott. No. 951,711; Mar. 8; Sp. p. 2511; Gaz. vol. 152; p. 437.
Metering panel-board. J. J. Agutter. No. 947,956; Feb. 1; Sp. p. 372; Gaz. vol. 151; p. 60.
Metering panel-board. H. A. Robinson. No. 961,464; June 14; Sp. p. 2512; Gaz. vol. 155; p. 442.
Methane or mixtures of methane and hydrogen, Manufacturing. P. Sabatier. No. 956,734; May 3; Sp. p. 503; Gaz. vol. 154; p. 81.
Micro receiver or translator. P. Stragiotti. No. 953,107; Mar. 29; Sp. p. 5445; Gaz. vol. 152; p. 995.
Micrometer. D. Peters. No. 946,268; Jan. 11; Sp. p. 2772; Gaz. vol. 150; p. 460.
Micrometer. C. E. Johnson. No. 972,196; Oct. 11; Sp. p. 1495; Gaz. vol. 159; p. 265.
Micrometer for spark-coils, Adjustment-. E. B. Jacobson. No. 968,358; Aug. 23; Sp. p. 5372; Gaz. vol. 157; p. 927.

Alphabetical list of inventions—Continued.

Micrometer-stop. F. R. Cunningham. No. 965,844; July 26; Sp. p. 6151; Gaz. vol. 156; p. 1043.
Microphonic transmitter. C. L. Chisholm. No. 964,145; July 12; Sp. p. 2455; Gaz. vol. 156; p. 403.
Microscope. E. Bausch and W. L. Patterson. No. 949,749; Feb. 22; Sp. p. 4115; Gaz. vol. 151; p. 745.
Microscopes, Magnetic specimen-holder for. A. Sauveur. No. 977,842; Dec. 6; Sp. p. 918; Gaz. vol. 161; p. 145.
Microscopes, Microtome attachment for. J. G. Poe. No. 979,333; Dec. 20; Sp. p. 4148; Gaz. vol. 161; p. 715.
Microtelephone. J. N. Wallace. No. 967,276; Aug. 16; Sp. p. 3090; Gaz. vol. 157; p. 535.
Military field-table. A. S. Fleming and J. Curry. No. 958,799; May 24; Sp. p. 5187; Gaz. vol. 154; p. 874.
Milk and cream can. W. R. Clark and W. M. G. Campbell. No. 946,654; Jan. 18; Sp. p. 3672; Gaz. vol. 150; p. 615.
Milk and cream purifying apparatus. J. H. Curran. No. 949,295; Feb. 15; Sp. p. 3175; Gaz. vol. 151; p. 559.
Milk and cream tester. H. C. Berry. No. 950,741; Mar. 1; Sp. p. 605; Gaz. vol. 152; p. 96.
Milk, Apparatus for manufacturing artificially-soured. J. Willmann. No. 969,018; Aug. 30; Sp. p. 6765; Gaz. vol. 157; p. 1178.
Milk-bottles and the like, Receptacle for. J. M. Brussau. No. 950,744; Mar. 1; Sp. p. 614; Gaz. vol. 152; p. 97.
Milk-can. T. W. Forster. No. 945,927; Jan. 11; Sp. p. 2057; Gaz. vol. 150; p. 342.
Milk-can. L. R. Steel. No. 947,863; Feb. 1; Sp. p. 178; Gaz. vol. 151; p. 30.
Milk-can. E. M. Kimball. No. 953,844; Apr. 5; Sp. p. 325; Gaz. vol. 153; p. 58.
Milk-can. C. E. Shreve. No. 963,082; July 5; Sp. p. 113; Gaz. vol. 156; p. 20.
Milk-can. C. H. Johnson. No. 964,264; July 12; Sp. p. 2687; Gaz. vol. 156; p. 443.
Milk-can. A. M. Brooks. No. 964,385; July 12; Sp. p. 2924; Gaz. vol. 156; p. 482.
Milk-can. R. Bray. No. 974,116; Nov. 1; Sp. p. 20; Gaz. vol. 160; p. 6.
Milk-can. B. Lefleur. No. 977,660; Dec. 6; Sp. p. 543; Gaz. vol. 161; p. 82.
Milk-can. L. R. Steel. No. 977,979; Dec. 6; Sp. p. 1208; Gaz. vol. 161; p. 193.
Milk-can and making the same. R. Bray. No. 956,675; May 3; Sp. p. 368; Gaz. vol. 154; p. 60.
Milk-can, Glass-lined. L. R. Steel. No. 947,864; Feb. 1; Sp. p. 180; Gaz. vol. 151; p. 31.
Milk-can, Metal. L. R. Steel. No. 977,978; Dec. 6; Sp. p. 1206; Gaz. vol. 161; p. 193.
Milk-can, Sanitary. L. R. Steel. No. 977,977; Dec. 6; Sp. p. 1204; Gaz. vol. 161; p. 193.
Milk-can, top-rim, cover, and lock. R. Belitz. No. 956,511; May 3; Sp. p. 11; Gaz. vol. 154; p. 4.
Milk-card holder. E. F. Meyer. No. 946,908; Jan. 18; Sp. p. 4279; Gaz. vol. 150; p. 703.
Milk-carrying tank. A. Hazell. No. 968,152; Aug. 23; Sp. p. 4931; Gaz. vol. 157; p. 854.
Milk-condenser. W. and W. Dehetre. No. 956,571; May 3; Sp. p. 139; Gaz. vol. 154; p. 24.
Milk-cooler. J. S. McNeel, Jr. No. 948,960; Feb. 8; Sp. p. 2475; Gaz. vol. 151; p. 421.
Milk-cooler. A. L. Wastel. No. 961,275; June 14; Sp. p. 2108; Gaz. vol. 155; p. 378.
Milk-cooler and cream-receptacle. R. Anderson. No. 956,021; Apr. 26; Sp. p. 5045; Gaz. vol. 153; p. 892.
Milk, Dehydrating. T. L. White and A. P. Elten. No. 956,246; Apr. 26; Sp. p. 5561; Gaz. vol. 153; p. 969.
Milk-dispensing vessel. E. H. G. Brinser. No. 960,492; June 7; Sp. p. 508; Gaz. vol. 155; p. 85.
Milk-heating apparatus. S. Shapiro. No. 960,045; May 31; Sp. p. 7871; Gaz. vol. 154; p. 1322.
Milk outlet in centrifugal separators, Blue-. A. L. Christenson. No. 971,593; Oct. 4; Sp. p. 180; Gaz. vol. 159; p. 33.
Milk-pasteurizing apparatus. H. Feldmeier. No. 972,608; Oct. 11; Sp. p. 2398; Gaz. vol. 159; p. 409.
Milk-preserving apparatus. L. D. Lewis. No. 964,983; July 19; Sp. p. 4307; Gaz. vol. 156; p. 719.
Milk-protector. A. and A. Iske. No. 952,253; Mar. 15; Sp. p. 3605; Gaz. vol. 152; p. 649.
Milk-receptacle. E. H. Humphrey. No. 965,188; July 26; Sp. p. 4720; Gaz. vol. 156; p. 817.
Milk, Sterilizing. C. C. Palmer. No. 963,244; July 5; Sp. p. 564; Gaz. vol. 156; p. 78.
Milk-top remover. E. A. Simms. No. 970,759; Sept. 20; Sp. p. 3480; Gaz. vol. 158; p. 595.
Milk, Treating. S. R. Kennedy. No. 970,718; Sept. 20; Sp. p. 3388; Gaz. vol. 158; p. 581.
Milk, Treating. S. R. Kennedy. No. 970,719; Sept. 20; Sp. p. 3388; Gaz. vol. 158; p. 581.
Milker, Cow-. R. Brown. No. 966,307; Aug. 2; Sp. p. 972; Gaz. vol. 157; p. 155.
Milker, Mechanical. L. L. Story. No. 969,761; Sept. 6; Sp. p. 1308; Gaz. vol. 158; p. 210.
Milking apparatus. G. E. Anderson. No. 959,042; May 24; Sp. p. 5700; Gaz. vol. 154; p. 957.
Milking apparatus. F. B. Shafer. No. 966,958; Aug. 9; Sp. p. 2428; Gaz. vol. 157; p. 399.
Milking apparatus, Cow-. F. M. Berberich. No. 948,440; Feb. 8; Sp. p. 1387; Gaz. vol. 151; p. 247.
Milking apparatus, Pneumatic. A. Gillies. No. 947,156; Jan. 18; Sp. p. 4741; Gaz. vol. 150; p. 781.
Milking-apparatus pulsating device. E. E. Good. No. 960,636; June 7; Sp. p. 815; Gaz. vol. 155; p. 134.
Milking-apparatus teat-cup. F. B. Shafer. No. 950,145; Feb. 22; Sp. p. 5019; Gaz. vol. 151; p. 882.
Milking appliance. A. Bruce. No. 972,596; Oct. 11; Sp. p. 2375; Gaz. vol. 159; p. 405.
Milking device. E. Stene. No. 955,610; Apr. 19; Sp. p. 4139; Gaz. vol. 153; p. 720.
Milking device. D. E. Howatt. No. 961,446; June 14; Sp. p. 2480; Gaz. vol. 155; p. 436.
Milking device. A. Sabroe. No. 973,704; Oct. 25; Sp. p. 4814; Gaz. vol. 159; p. 837.
Milking-machine. R. D. Roth. No. 945,812; Jan. 11; Sp. p. 1789; Gaz. vol. 150; p. 300.
Milking-machine. T. E. Wawrinsky and H. F. Albihn. No. 948,360; Feb. 8; Sp. p. 1208; Gaz. vol. 151; p. 221.
Milking-machine. B. J. Bigelow. No. 948,841; Feb. 8; Sp. p. 2252; Gaz. vol. 151; p. 382.
Milking-machine. F. A. Lane. No. 951,403; Mar. 8; Sp. p. 1926; Gaz. vol. 152; p. 334.
Milking-machine. U. M. Lundén. No. 954,530; Apr. 12; Sp. p. 1781; Gaz. vol. 153; p. 320.
Milking-machine. K. A. Ahlbom. No. 958,685; May 17; Sp. p. 4922; Gaz. vol. 154; p. 808.
Milking-machine. J. J. Bukolt. No. 958,954; May 24; Sp. p. 5529; Gaz. vol. 154; p. 928.
Milking-machine. M. A. Hicks. No. 961,960; June 21; Sp. p. 3582; Gaz. vol. 155; p. 631.
Milking-machine. G. E. Jonsson. No. 965,193; July 26; Sp. p. 4727; Gaz. vol. 156; p. 819.
Milking-machine. J. L. Hulbert. No. 971,537; Oct. 4; Sp. p. 53; Gaz. vol. 159; p. 12.
Milling-machine. C. L. Grohmann. No. 971,885; Oct. 4; Sp. p. 793; Gaz. vol. 159; p. 138.
Milking-machine. G. E. Anderson. No. 974,011; Oct. 25; Sp. p. 5451; Gaz. vol. 159; p. 944.
Milking-machine. F. J. Johansson and E. A. O. Göthe. No. 974,277; Nov. 1; Sp. p. 447; Gaz. vol. 160; p. 66.
Milking-machine. J. Nielsen. No. 978,473; Dec. 13; Sp. p. 2273; Gaz. vol. 161; p. 395.
Milking-machine. G. E. Jonsson. No. 978,595; Dec. 13; Sp. p. 2565; Gaz. vol. 161; p. 437.
Milking-machine. F. A. Lane. No. 979,174; Dec. 20; Sp. p. 3832; Gaz. vol. 161; p. 663.
Milking-machine, Electric vacuum. G. B. Cramp. No. 952,978; Mar. 22; Sp. p. 5138; Gaz. vol. 152; p. 923.
Milking-machine pulsator. D. Brown. No. 961,932; June 21; Sp. p. 3515; Gaz. vol. 155; p. 621.
Milking-machine teat-cup. C. E. Hodge and S. P. Andersen. No. 948,608; Feb. 8; Sp. p. 1752; Gaz. vol. 151; p. 303.
Milking-machine teat-cup. F. A. Lane. No. 952,122; Mar. 15; Sp. p. 3357; Gaz. vol. 152; p. 604.
Milking-machine, Vacuum automatic. F. B. Groff. No. 967,513; Aug. 16; Sp. p. 3593; Gaz. vol. 157; p. 617.
Milking-machines, Means for automatically delivering the milk from the vacuum-pipes of. C. E. Gane. No. 950,385; Feb. 22; Sp. p. 5502; Gaz. vol. 151; p. 963.
Milking machinery. R. A. Wiggins and C. Bristow. No. 955,732; Apr. 19; Sp. p. 4417; Gaz. vol. 153; p. 762.
Milking mechanism. D. T. Sharples. No. 976,305; Nov. 22; Sp. p. 4927; Gaz. vol. 160; p. 839.
Milking-receptacle. I. N. Horne. No. 958,399; May 17; Sp. p. 4367; Gaz. vol. 154; p. 713.
Milking vessel. C. S. Moore. No. 976,202; Nov. 22; Sp. p. 4657; Gaz. vol. 160; p. 802.
Milking-vessel support. S. W. Gerster. No. 953,994; Apr. 5; Sp. p. 621; Gaz. vol. 153; p. 111.
Mill; *See* Attrition-mill; Ball and tube mill; Cheese-curd mill; Cider-mill; Coffee-mill; Crusher-mill; Crushing-mill; Crushing or pulverizing mill; Cutting-mill; Embossing-mill; Feed-mill; Float tide-mill; Fruit and vegetable mill; Gradual-reduction mill; Grinding-mill; Grinding and crushing mill; Mustard-grinding mill; Ore-mill; Paper-pulp mill; Phosphate-mill; Pug-mill; Pulverizing-mill; Quartz-mill; Roller crushing-mill; Rolling-mill; Sawmill; Slip-mill; Spice-mill; Tire-mill; Tube-mill; Windmill.
Mill-carriage attachment. C. E. Sweet. No. 959,899; May 31; Sp. p. 7509; Gaz. vol. 154; p. 1269.
Mill-floor construction, Reinforced wooden. C. A. M. Praray. No. 968,512; Aug. 23; Sp. p. 5691; Gaz. vol. 157; p. 980.
Mill-floor construction, Reinforced wooden. C. A. M. Praray. No. 975,923; Nov. 15; Sp. p. 4062; Gaz. vol. 160; p. 684.
Mill screen or shoe, Fanning-. J. N. Osborn. No. 951,332; Mar. 8; Sp. p. 1768; Gaz. vol. 152; p. 311.
Mill spindle, Grinding-. A. M. Tully. No. 947,953; Feb. 1; Sp. p. 368; Gaz. vol. 151; p. 59.
Mills, Grinding-plate for attrition-. S. L. Fraser and A. E. Jacobson. No. 975,848; Nov. 15; Sp. p. 3902; Gaz. vol. 160; p. 659.
Mills, Sieve for drum-. G. Zarniko. No. 958,348; May 17; Sp. p. 4261; Gaz. vol. 154; p. 696.
Milling apparatus. E. H. Martin. No. 976,585; Nov. 22; Sp. p. 5538; Gaz. vol. 160; p. 936.

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Milling-cutter. H. Lindley. No. 953,630; Mar. 29; Sp. p. 6561; Gaz. vol. 152; p. 1172.
Milling-cutter, Gang. J. A. McGregor. No. 963,464; July 5; Sp. p. 1006; Gaz. vol. 156; p. 152.
Milling-machine. R. K. Le Blond and W. F. Groene. No. 956,643; May 3; Sp. p. 293; Gaz. vol. 154; p. 48.
Milling-machine. F. O. Farwell. No. 958,243; May 17; Sp. p. 3891; Gaz. vol. 154; p. 657.
Milling-machine. G. R. Lang. No. 963,904; July 12; Sp. p. 1954; Gaz. vol. 156; p. 321.
Milling-machine. A. L. De Leeuw. No. 973,766; Oct. 25; Sp. p. 4937; Gaz. vol. 159; p. 859.
Milling-machine. A. L. De Leeuw. No. 974,036; Oct. 25; Sp. p. 5502; Gaz. vol. 159; p. 954.
Milling-machine. S. D. Leland. No. 979,972; Dec. 27; Sp. p. 5514; Gaz. vol. 161; p. 953.
Milling-machine attachment. J. R. French. No. 953,904; Apr. 5; Sp. p. 435; Gaz. vol. 153; p. 79.
Milling-machine attachment. C. L. Grohmann. No. 968,047; Aug. 23; Sp. p. 4688; Gaz. vol. 157; p. 819.
Milling-machines, Cutter-holding device for. J. Parker. No. 963,935; July 12; Sp. p. 2013; Gaz. vol. 156; p. 331.
Milling-machines, Feeding device for. H. F. Kellemen. No. 957,562; May 10; Sp. p. 2270; Gaz. vol. 154; p. 393.
Milling spirals, Machine for. B. M. W. Hanson. No. 948,696; Feb. 8; Sp. p. 1941; Gaz. vol. 151; p. 333.
Milling-tool. E. E. Wetzel. No. 955,029; Apr. 12; Sp. p. 2908; Gaz. vol. 153; p. 492.
Milling-tooth. T. Eynon. No. 959,328; May 24; Sp. p. 6294; Gaz. vol. 154; p. 1053.
Millstone-dressing. W. Van Nostrand. No. 968,818; Aug. 30; Sp. p. 6364; Gaz. vol. 157; p. 1110.
Mine-anchors, &c., Mooring for. C. R. Gabriel. No. 947,230; Jan. 25; Sp. p. 4909; Gaz. vol. 150; p. 837.
Mine and the like, Floating. H. Lacy. No. 976,376; Nov. 22; Sp. p. 5081; Gaz. vol. 160; p. 863.
Mine-exit. C. W. White. No. 968,504; Aug. 23; Sp. p. 5671; Gaz. vol. 157; p. 977.
Mine-prop. E. Schäfer. No. 946,879; Jan. 18; Sp. p. 4208; Gaz. vol. 150; p. 693.
Mine-prop. J. H. Eickershoff. No. 969,851; Sept. 13; Sp. p. 1539; Gaz. vol. 158; p. 264.
Mine-shaft safety device. W. H. Gregg. No. 946,350; Jan. 11; Sp. p. 2940; Gaz. vol. 150; p. 488.
Mine skips and cages, Safety mechanism for. H. E. Hyde. No. 956,707; May 3; Sp. p. 447; Gaz. vol. 154; p. 71.
Mine, Submarine. A. E. T. Bergström. No. 953,191; Mar. 29; Sp. p. 5626; Gaz. vol. 152; p. 1022.
Mine-timbering machine. J. C. Pardue. No. 971,779; Oct. 4; Sp. p. 563; Gaz. vol. 159; p. 98.
Mine, torpedo, and the like, Submarine. K. O. Leon. No. 952,450; Mar. 22; Sp. p. 4007; Gaz. vol. 152; p. 743.
Mine-ventilating apparatus. W. Dunn. No. 963,002; June 28; Sp. p. 5787; Gaz. vol. 155; p. 1013.
Mine-ventilating system. D. R. Martin. No. 963,787; July 12; Sp. p. 1686; Gaz. vol. 156; p. 282.
Mines, Air-reservoir for. P. Quinn. No. 978,642; Dec. 13; Sp. p. 2672; Gaz. vol. 161; p. 454.
Mines, Emergency-escapeway for. A. H. Sasse. No. 964,563; July 19; Sp. p. 3359; Gaz. vol. 156; p. 574.
Mines, Removing coal from. E. O'Toole and H. N. Eavenson. No. 957,364; May 10; Sp. p. 1871; Gaz. vol. 154; p. 326.
Mines, Undercutting in. F. Billings. No. 974,632; Nov. 1; Sp. p. 1263; Gaz. vol. 160; p. 194.
Miner's drill. J. L. Cook. No. 945,446; Jan. 4; Sp. p. 943; Gaz. vol. 150; p. 148.
Miners, System for ventilating and rendering first aid to entombed. R. C. Dawson. No. 956,306; Apr. 26; Sp. p. 5691; Gaz. vol. 153; p. 991.
Miner's tool, Combination. A. V. Des Moineaux. No. 947,020; Jan. 18; Sp. p. 4497; Gaz. vol. 150; p. 740.
Mining apparatus. A. Washburne. No. 968,100; Aug. 23; Sp. p. 4820; Gaz. vol. 157; p. 837.
Mining apparatus, Coal-. A. Powell. No. 968,881; Aug. 30; Sp. p. 6497; Gaz. vol. 157; p. 1132.
Mining apparatus, Sulfur-. H. Frasch. No. 977,444; Dec. 6; Sp. p. 30; Gaz. vol. 161; p. 8.
Mining coal. H. A. Kuhn. No. 970,725; Sept. 20; Sp. p. 3395; Gaz. vol. 158; p. 583.
Mining coal. T. Nichol. No. 979,086; Dec. 20; Sp. p. 3602; Gaz. vol. 161; p. 628.
Mining-drill. G. W. Nixon. No. 953,855; Apr. 5; Sp. p. 349; Gaz. vol. 153; p. 62.
Mining-drill. G. W. Nixon. No. 953,969; Apr. 5; Sp. p. 560; Gaz. vol. 153; p. 101.
Mining-drill, Rotary. G. G. Barker. No. 966,377; Aug. 2; Sp. p. 1101; Gaz. vol. 157; p. 178.
Mining-drill thread-box and support. G. W. Nixon. No. 971,467; Sept. 27; Sp. p. 4891; Gaz. vol. 158; p. 856.
Mining-drill, Water-power. C. A. Hanson. No. 977,302; Nov. 29; Sp. p. 7098; Gaz. vol. 160; p. 1208.
Mining gilsonite. T. W. Blake. No. 950,363; Feb. 22; Sp. p. 5456; Gaz. vol. 151; p. 957.
Mining-machine. J. C. Hirst. No. 957,957; May 17; Sp. p. 3127; Gaz. vol. 154; p. 556.
Mining-machine. C. E. Davis. No. 967,885; Aug. 23; Sp. p. 4332; Gaz. vol. 157; p. 764.
Mining-machine. A. U. Davis. No. 974,645; Nov. 1; Sp. p. 1292; Gaz. vol. 160; p. 199.
Mining-machine. F. L. Sessions. No. 975,468; Nov. 15; Sp. p. 3099; Gaz. vol. 160; p. 530.
Mining-machine. S. J. Teller. No. 979,597; Dec. 27; Sp. p. 4714; Gaz. vol. 161; p. 828.
Mining-machine bit. R. E. Noble. No. 976,835; Nov. 22; Sp. p. 6036; Gaz. vol. 160; p. 1019.
Mining machine, Coal-. J. Kurtz and T. Hochriter. No. 957,510; May 10; Sp. p. 2166; Gaz. vol. 154; p. 374.
Mining machine, Coal-. L. Kovatch. No. 960,958; June 7; Sp. p. 1436; Gaz. vol. 155; p. 241.
Mining-machine, Portable. G. G. Barker. No. 966,378; Aug. 2; Sp. p. 1102; Gaz. vol. 157; p. 178.
Mining-machines, Chain for. C. E. Davis. No. 967,884; Aug. 23; Sp. p. 4331; Gaz. vol. 157; p. 764.
Mining-machines of the cutting-chain type, Bit for. C. N. Barton. No. 971,345; Sept. 27; Sp. p. 4675; Gaz. vol. 158; p. 817.
Mining-measure. A. Cronwell. No. 975,213; Nov. 8; Sp. p. 2585; Gaz. vol. 160; p. 417.
Mining-needle. P. F. Costello. No. 977,275; Nov. 29; Sp. p. 7048; Gaz. vol. 160; p. 1199.
Mining starter-bit. G. G. Mayer and R. Ashton. No. 979,319; Dec. 20; Sp. p. 4125; Gaz. vol. 161; p. 710.
Mineral wool, Manufacturing. T. B. Parkison. No 945,583; Jan. 4; Sp. p. 1240; Gaz. vol. 150; p. 192.
Minerals from their ores, Apparatus for separating. S. K. Behrend. No. 973,467; Oct. 25; Sp. p. 4305; Gaz. vol. 159; p. 755.
Minerals, Separating. A. S. Ramage. No. 967,671; Aug. 16; Sp. p. 3900; Gaz. vol. 157; p. 669.
Minerals, Separation of combined. A. S. Ramage. No. 949,002; Feb. 15; Sp. p. 2576; Gaz. vol. 151; p. 463.
Minnow. J. E. Walters. No. 969,014; Aug. 30; Sp. p. 6754; Gaz. vol. 157; p. 1177.
Minnow, Animated. H. A. Williamson. No. 966,068; Aug. 2; Sp. p. 487; Gaz. vol. 157; p. 78.
Minnow-trap. S. S. Todd. No. 951,157; Mar. 8; Sp. p. 1404; Gaz. vol. 152; p. 255.
Minnow-trap. H. S. Newberry. No. 951,656; Mar. 8; Sp. p. 2428; Gaz. vol. 152; p. 420.
Mirror, Adjustable. C. L. Fitchet. No. 978,573; Dec. 13; Sp. p. 2516; Gaz. vol. 161; p. 429.
Mirror and support, Adjustable. S. Bacharach. No. 965,430; July 26; Sp. p. 5251; Gaz. vol. 156; p. 499.
Mirror-support. F. M. Bonta. No. 966,077; Aug. 2; Sp. p. 503; Gaz. vol. 157; p. 81.
Mirror-support. R. H. Miller. No. 970,636; Sept. 20; Sp. p. 3212; Gaz. vol. 158; p. 553.
Mirror-support, Pivotal. F. O. Anderson. No. 959,099; May 24; Sp. p. 5829; Gaz. vol. 154; p. 977.
Mirror-supporting device. J. B. McClelland, Jr. No. 968,068; Aug. 23; Sp. p. 4748; Gaz. vol. 157; p. 826.
Mirrors, Manufacture of silvered-glass. E. Hoorickx. No. 966,097; Aug. 2; Sp. p. 537; Gaz. vol. 157; p. 87.
Mirrors, pictures, &c., in metallic frames, Means for mounting. J. P. Eustis. (Reissue.) No. 13,140; Aug. 2; Sp. p. 1177; Gaz. vol. 157; p. 191.
Mirrors, pictures, or other small objects, Means for supporting. C. B. Moore. No. 948,113; Feb. 1; Sp. p. 693; Gaz. vol. 151; p. 113.
Miter-block. E. C. Kellogg. No. 956,711; May 3; Sp. p. 460; Gaz. vol. 154; p. 73.
Miter-box. W. Potter. No. 948,022; Feb. 1; Sp. p. 501; Gaz. vol. 151; p. 81.
Miter-box. N. G. Nelson. No. 948,428; Feb. 8; Sp. p. 1368; Gaz. vol. 151; p. 244.
Miter-box. W. Turner. No. 949,100; Feb. 15; Sp. p. 2777; Gaz. vol. 151; p. 493.
Miter-box. H. S. Milks. No. 952,270; Mar. 15; Sp. p. 3642; Gaz. vol. 152; p. 654.
Miter-box. G. W. Fish. No. 955,149; Apr. 19; Sp. p. 3134; Gaz. vol. 153; p. 563.
Miter-box. R. Dunne. No. 957,871; May 17; Sp. p. 2908; Gaz. vol. 154; p. 527.
Miter-box. A. A. Wilson. No. 965,785; July 26; Sp. p. 6025; Gaz. vol. 156; p. 1023.
Miter-box. F. Peterson. No. 968,973; Aug. 30; Sp. p. 6669; Gaz. vol. 157; p. 1162.
Miter-box. J. J. Gregory. No. 970,327; Sept. 13; Sp. p. 2527; Gaz. vol. 158; p. 426.
Miter-box. F. Peterson. No. 976,097; Nov. 15; Sp. p. 4396; Gaz. vol. 160; p. 745.
Miter-box. A. Robbins. No. 976,296; Nov. 22; Sp. p. 4904; Gaz. vol. 160; p. 836.
Miter-box. W. Fuhrmann. No. 976,730; Nov. 22; Sp. p. 5811; Gaz. vol. 160; p. 984.
Miter-box. H. E. Goodell. No. 978,576; Dec. 13; Sp. p. 2524; Gaz. vol. 161; p. 431.
Miter-clamp. T. B. Miller. No. 978,187; Dec. 13; Sp. p. 1674; Gaz. vol. 161; p. 294.
Miter-cutter. E. M. Whitney. No. 963,344; July 5; Sp. p. 763; Gaz. vol. 156; p. 112.
Miter-cutting machine. W. R. Fox. No. 964,506; July 19; Sp. p. 3203; Gaz. vol. 156; p. 554.
Miter-joint for tubes. F. R. Rogers and C. Vallone. No. 958,316; May 17; Sp. p. 4194; Gaz. vol. 154; p. 684.
Mitering-machine. C. T. Spencer. No. 978,895; Dec. 13; Sp. p. 5369; Gaz. vol. 161; p. 928.
Mitt and glove. J. Yeager and H. Goldsmith. No. 952,556; Mar. 22; Sp. p. 4251; Gaz. vol. 152; p. 779.

Mitt, Base-ball. S. F. Waring. No. 950,083; Feb. 22; Sp. p. 4905; Gaz. vol. 151; p. 862.
Mitt, Base-ball. J. Hartman. No. 958,117; May 17; Sp. p. 3641; Gaz. vol. 154; p. 614.
Mitt, Base-ball. C. M. King. No. 963,006; June 28; Sp. p. 5793; Gaz. vol. 155; p. 1014.
Mitt, Base-ball. J. Gamble. No. 967,120; Aug. 9; Sp. p. 2783; Gaz. vol. 157; p. 456.
Mitt, Punching-bag. J. F. Maynard. No. 961,149; June 14; Sp. p. 1830; Gaz. vol. 155; p. 332.
Mitten. H. A. Wood. No. 973,330; Oct. 18; Sp. p. 4008; Gaz. vol. 159; p. 685.
Mixer: *See* Alfalfa-meal mixer; Bath-mixer; Bread-mixer; Cement-mixer; Concrete-mixer; Dough-mixer; Feed-mixer; Fuel-mixer; Gas-mixer; Gas and air mixer; Gas and liquid mixer; Gas-burner mixer; Gaseous-fluid mixer; Grout-mixer; Mortar-mixer; Spraying-solution mixer.
Mixer. W. O. Hickok, 4th, and J. A. Scott. No. 968,660 Aug. 30; Sp. p. 6022; Gaz. vol. 157; p. 1057.
Mixer. W. H. Larkin, Jr. No. 971,051; Sept. 27; Sp. p. 4075; Gaz. vol. 158; p. 721.
Mixer. N. P. Mader. No. 973,057; Oct. 18; Sp. p. 3413; Gaz. vol. 159; p. 591.
Mixer and carrier, Combined. F. D. Robbins. No. 977,679; Dec. 6; Sp. p. 585; Gaz. vol. 161; p. 89.
Mixer and conveyer. G. E. Barnette. No. 975,315; Nov. 8; Sp. p. 2791; Gaz. vol. 160; p. 451.
Mixer and sprinkler, Combined. Z. G. Sholes. No. 967,450; Aug. 16; Sp. p. 3451; Gaz. vol. 157; p. 594.
Mixing and blending machine. H. G. Boughton. No. 957,646; May 10; Sp. p. 2432; Gaz. vol. 154; p. 421.
Mixing and crushing machine charging device. G. Händle. No. 964,512; July 19; Sp. p. 3216; Gaz. vol. 156; p. 556.
Mixing and lubricating device. W. S. Morgan. No. 974,175; Nov. 1; Sp. p. 146; Gaz. vol. 160; p. 27.
Mixing apparatus, Centrifugal. A. Furowicz. No. 954,951; Apr. 12; Sp. p. 2750; Gaz. vol. 153; p. 466.
Mixing-machine. O. H. Weckesser. No. 945,651; Jan. 4; Sp. p. 1379; Gaz. vol. 150; p. 215.
Mixing-machine. A. J. Cropp. No. 947,196; Jan. 18; Sp. p. 4820; Gaz. vol. 150; p. 795.
Mixing-machine. P. A. Koehring. No. 948,996; Feb. 15; Sp. p. 2559; Gaz. vol. 151; p. 460.
Mixing-machine. A. J. Cropp. No. 949,698; Feb. 15; Sp. p. 3976; Gaz. vol. 151; p. 693.
Mixing-machine. T. L. Smith. No. 951,460; Mar. 8; Sp. p. 2037; Gaz. vol. 152; p. 353.
Mixing-machine. G. Hoffmann. No. 956,351; Apr. 26; Sp. p. 5776; Gaz. vol. 153; p. 1005.
Mixing-machine. G. Eirich. No. 958,608; May 17; Sp. p. 4775; Gaz. vol. 154; p. 783.
Mixing-machine. F. Notz. No. 959,584; May 31; Sp. p. 6841; Gaz. vol. 154; p. 1164.
Mixing-machine. F. T. Arnold. No. 966,639; Aug. 9; Sp. p. 1721; Gaz. vol. 157; p. 293.
Mixing-machine. H. Read. No. 966,765; Aug. 9; Sp. p. 2029; Gaz. vol. 157; p. 337.
Mixing-machine. T. L. Smith. No. 968,275; Aug. 23; Sp. p. 5212; Gaz. vol. 157; p. 897.
Mixing-machine. M. S. Shapleigh. No. 969,120; Aug. 30; Sp. p. 6973; Gaz. vol. 157; p. 1214.
Mixing-machine. N. P. Vlahoyanes. No. 973,394; Oct. 18; Sp. p. 4150; Gaz. vol. 159; p. 707.
Mixing-machine. C. T. Foote. No. 975,847; Nov. 15; Sp. p. 3900; Gaz. vol. 160; p. 658.
Mixing-machine. A. F. Nims. No. 977,897; Dec. 6; Sp. p. 1033; Gaz. vol. 161; p. 164.
Mixing-machine. C. E. and C. T. Foote. No. 978,011; Dec. 6; Sp. p. 1266; Gaz. vol. 161; p. 203.
Mixing-machines, Portable side-loading device for. T. L. Smith. No. 950,122; Feb. 22; Sp. p. 4977; Gaz. vol. 151; p. 875.
Mixing machinery. G. H. Petri. No. 957,088; May 3; Sp. p. 1268; Gaz. vol. 154; p. 201.
Moccasin. D. Hoyt and L. A. Burke. No. 972,194; Oct. 11; Sp. p. 1488; Gaz. vol. 159; p. 265.
Models, &c., Making art. G. J. Zolnay. No. 968,505; Aug. 23; Sp. p. 5672; Gaz. vol. 157; p. 977.
Moire-machine. C. B. Johnson and P. Van Vlaanderen. No. 961,863; June 21; Sp. p. 3382; Gaz. vol. 155; p. 599.
Moistener. N. C. Shatzer. No. 954,651; Apr. 12; Sp. p. 2053; Gaz. vol. 153; p. 361.
Moistener. M. A. Metzner. No. 958,149; May 17; Sp. p. 3706; Gaz. vol. 154; p. 626.
Moistener. J. M. Molloy. No. 973,375; Oct. 18; Sp. p. 4112; Gaz. vol. 159; p. 701.
Moistener. J. S. Cushman. No. 973,631; Oct. 25; Sp. p. 4663; Gaz. vol. 159; p. 811.
Moistener, Envelop-. J. F. Pomphrey. No. 945,982; Jan. 11; Sp. p. 2169; Gaz. vol. 150; p. 361.
Moistener, Envelop-. U. Jordan and F. Carpenter. No. 950,178; Feb. 22; Sp. p. 5093; Gaz. vol. 151; p. 894.
Moistener, Envelop-. H. E. Packer. No. 959,793; May 31; Sp. p. 7273; Gaz. vol. 154; p. 1232.
Moistener, Finger-. H. S. Cates. No. 975,676; Nov. 15; Sp. p. 3571; Gaz. vol. 160; p. 601.
Moistener, Finger-. B. Curtiss. No. 978,703; Dec. 13; Sp. p. 2784; Gaz. vol. 161; p. 474.
Moistener, Show-case. A. Sargent. No. 978,218; Dec. 13; Sp. p. 1737; Gaz. vol. 161; p. 305.
Moistener, Stamp-. J. G. Summers. No. 972,661; Oct. 11; Sp. p. 2514; Gaz. vol. 159; p. 427.
Moistener, Stamp and envelop. F. W. Granger. No. 946,963; Jan. 18; Sp. p. 4384; Gaz. vol. 150; p. 721.
Moistening device. P. H. Lombard. No. 948,110; Feb. 1; Sp. p. 688; Gaz. vol. 151; p. 112.
Moistening device. W. J. Minkiewitz. No. 956,129; Apr. 26; Sp. p. 5294; Gaz. vol. 153; p. 930.
Moistening-machine. A. N. Southwick. No. 955,708; Apr. 19; Sp. p. 4365; Gaz. vol. 153; p. 754.
Moistening-machine for adhesive materials. J. D. McLaurin. No. 959,875; May 31; Sp. p. 7460; Gaz. vol. 154; p. 1261.
Moistening-roll. A. Fachs. No. 972,607; Oct. 11; Sp. p. 2396; Gaz. vol. 159; p. 409.
Mold: *See* Asbestos mold; Bench-mold; Block-mold; Brake-shoe mold; Briquet-mold; Building-block mold; Car-brass mold; Casting-mold; Cement-mold; Cement-block mold; Cement block and wall mold; Cement-watering-tank mold; Cigar-bunch mold; Coffin-mold; Concrete-mold; Concrete-block mold; Concrete-column mold; Concrete-wall mold; Facing-mold; Fence-post mold; Footwear-mold; Glassware-mold; Hollow-article mold; Ingot-mold; Journal-bearing mold; Metal-mold; Metallic mold; Phonograph-record mold; Pipe and tile mold; Plastic mold; Plastic-material mold; Post-mold; Post-forming mold; Quad-mold; Sash-weight mold; Sectional mold; Sewer-mold; Shingle-mold; Telegraph-pole or fence-post mold; Tie-mold; Tobacco-mold; Toy briquet-mold; Type-mold; Type-casting-machine mold; Vault-mold; Wall-mold.
Mold. F. W. Hoffmann. No. 945,537; Jan. 4; Sp. p. 1144; Gaz. vol. 150; p. 177.
Mold. J. B. Blaw. No. 946,002; Jan. 11; Sp. p. 1214; Gaz. vol. 150; p. 367.
Mold. J. A. Rathbone. No. 949,496; Feb. 15; Sp. p. 3597; Gaz. vol. 151; p. 627.
Mold. T. MacDougal and J. M. Chambers. No. 950,724; Mar. 1; Sp. p. 573; Gaz. vol. 152; p. 90.
Mold. N. R. Lee. No. 951,688; Mar. 8; Sp. p. 2477; Gaz. vol. 152; p. 430.
Mold. W. E. Anderson. No. 951,753; Mar. 8; Sp. p. 2618; Gaz. vol. 152; p. 453.
Mold. J. W. Urie. No. 952,387; Mar. 15; Sp. p. 3873; Gaz. vol. 152; p. 693.
Mold. O. D. W. Inman. No. 952,525; Mar. 22; Sp. p. 4174; Gaz. vol. 152; p. 768.
Mold. W. M. Sheppard. No. 953,926; Apr. 5; Sp. p. 482; Gaz. vol. 153; p. 88.
Mold. P. H. Allison. No. 954,368; Apr. 5; Sp. p. 1424; Gaz. vol. 153; p. 237.
Mold. E. E. Orr. No. 954,645; Apr. 12; Sp. p. 2037; Gaz. vol. 153; p. 359.
Mold. P. S. McKenzie. No. 954,687; Apr. 12; Sp. p. 2127; Gaz. vol. 153; p. 373.
Mold. W. A. Riddell. No. 958,892; May 24; Sp. p. 5414; Gaz. vol. 154; p. 908.
Mold. W. H. Blose. No. 959,438; May 24; Sp. p. 6490; Gaz. vol. 154; p. 1087.
Mold. R. C. Ricker. No. 959,806; May 31; Sp. p. 7307; Gaz. vol. 154; p. 1237.
Mold. C. S. Wert. No. 965,349; July 26; Sp. p. 5081; Gaz. vol. 156; p. 872.
Mold. J. H. Smith. No. 966,961; Aug. 9; Sp. p. 2433; Gaz. vol. 157; p. 400.
Mold. H. Gasche and K. Wenský. No. 967,012; Aug. 9; Sp. p. 2546; Gaz. vol. 157; p. 418.
Mold. J. Rodham. No. 967,836; Aug. 16; Sp p. 4239; Gaz. vol. 157; p. 725.
Mold. H. D. Streator. No. 968,285; Aug. 23; Sp. p. 5231; Gaz. vol. 157; p. 901.
Mold. G. C. Dager. No. 970,426; Sept. 13; Sp. p. 2715; Gaz. vol. 158; p. 458.
Mold. C. D. McArthur. No. 971,391; Sept. 27; Sp. p. 4762; Gaz. vol. 158; p. 832.
Mold. L. F. Parsons. No. 971,554; Oct. 4; Sp. p. 95; Gaz. vol. 159; p. 18.
Mold. F. Fullenkamp. No. 974,372; Nov. 1; Sp. p. 667; Gaz. vol. 160; p. 100.
Mold. P. M. McNabb. No. 974,507; Nov. 1; Sp. p. 990; Gaz. vol. 160; p. 147.
Mold. S. L. Shepard. No. 975,083; Nov. 8; Sp. p. 2274; Gaz. vol. 160; p. 371.
Mold. A. Roos. No. 978,938; Dec. 20; Sp. p. 3260; Gaz. vol. 161; p. 577.
Mold and disher. S. J. Clark. No. 961,429; June 14; Sp. p. 2439; Gaz. vol. 155; p. 430.
Mold-coating apparatus. J. A. Mohr and F. H. N. Gerwig. No. 965,394; July 26; Sp. p. 5166; Gaz. vol. 156; p. 886.
Mold-drying apparatus. J. C. Davis. No. 962,553; June 28; Sp. p. 4906; Gaz. vol. 155; p. 859.
Mold-filling machine. J. Anderson. No. 949,745; Feb. 15; Sp. p. 4091; Gaz. vol. 151; p. 709.
Mold for chilled rolls. F. E. Mesta. No. 951,769; Mar. 8; Sp. p. 2648; Gaz. vol. 152; p. 458.
Mold for collapsible metal centerings. S. L. Sheets. No. 953,925; Apr. 5; Sp. p. 478; Gaz. vol. 153; p. 87.

Alphabetical list of inventions—Continued.

Mold for forming plastic articles. C. J. Kirk. No. 978,035; Dec. 6; Sp. p. 1324; Gaz. vol. 161; p. 212.
Mold for making culverts, conduits, and similar hollow structures. J. Hickson. No. 955,156; Apr. 19; Sp. p. 3149; Gaz. vol. 153; p. 566.
Mold for plastic bodies. W. H. Crum. No. 948,475; Feb. 8; Sp. p. 1464; Gaz. vol. 151; p. 260.
Mold-handling apparatus. T. V. Dimon. No. 952,789; Mar. 22; Sp. p. 4771; Gaz. vol. 152; p. 860.
Mold-making machine. D. McKenzie. No. 947,597; Jan. 25; Sp. p. 5786; Gaz. vol. 150; p. 961.
Mold-making machine. H. M. Molder. (Reissue.) No. 13,097; Mar. 22; Sp. p. 5227; Gaz. vol. 152; p. 937.
Mold-press. D. C. Addicks. No. 961,332; June 14; Sp. p. 2256; Gaz. vol. 155; p. 398.
Mold-sander. D. P. Sanders. No. 956,829; May 3; Sp. p. 721; Gaz. vol. 154; p. 114.
Mold-tie. J. H. Sullivan. No. 972,036; Oct. 4; Sp. p. 1156; Gaz. vol. 159; p. 194.
Mold-venting apparatus. C. B. Moore. No. 959,149; May 24; Sp. p. 5931; Gaz. vol. 154; p. 993.
Molds, Composition for. J. J. C. Smith. No. 950,355; Feb. 22; Sp. p. 5443; Gaz. vol. 151; p. 954.
Molds, Drying. J. C. Davis. No. 967,616; Aug. 16; Sp. p. 3794; Gaz. vol. 157; p. 651.
Molds, Making resilient. A. A. Schmidt. No. 960,714; June 7; Sp. p. 966; Gaz. vol. 155; p. 160.
Molds, Raising device for. J. S. Linton. No. 953,476; Mar. 29; Sp. p. 6240; Gaz. vol. 152; p. 1118.
Molds, Treating the interior surfaces of. A. A. Schmidt. No. 967,982; Aug. 23; Sp. p. 4544; Gaz. vol. 157; p. 797.
Molded article of granular material. J. S. Robeson. No. 947,128; Jan. 18; Sp. p. 4683; Gaz. vol. 150; p. 773.
Molded articles, Treating. W. M. Newton. No. 968,591; Aug. 30; Sp. p. 5862; Gaz. vol. 157; p. 1034.
Molded mass, Producing a. A. Hof and A. Pieper. No. 975,691; Nov. 15; Sp. p. 3594; Gaz. vol. 160; p. 606.
Molder's clamp. J. T. Ramsden. No. 971,687; Oct. 4; Sp. p. 368; Gaz. vol. 159; p. 65.
Molder's flask. J. Jordan and A. Tyler. No. 951,495; Mar. 8; Sp. p. 2108; Gaz. vol. 152; p. 365.
Molder's flask. A. Becker. No. 952,722; Mar. 22; Sp. p. 4623; Gaz. vol. 152; p. 838.
Molder's flask. G. E. Linn. No. 960,025; May 31; Sp. p. 7821; Gaz. vol. 154; p. 1315.
Molder's flask. E. T. McHugh. No. 974,983; Nov. 8; Sp. p. 2068; Gaz. vol. 160; p. 337.
Molder's flask and match-plate. J. S. Van Buren. No. 955,021; Apr. 12; Sp. p. 2894; Gaz. vol. 153; p. 490.
Molder's-flask carrier. J. G. Morrison. No. 951,831; Mar. 15; Sp. p. 2780; Gaz. vol. 152; p. 508.
Molders' flasks, Equalizing-support for. W. Lewis and L. Tabor. No. 964,440; July 12; Sp. p. 3028; Gaz. vol. 156; p. 500.
Molding and baking machine. L. W. Partridge. No. 974,705; Nov. 1; Sp. p. 1431; Gaz. vol. 160; p. 220.
Molding and transferring apparatus. J. L. Herman. No. 959,011; May 24; Sp. p. 5636; Gaz. vol. 154; p. 947.
Molding apparatus. J. A. Rathbone. No. 949,497; Feb. 15; Sp. p. 3599; Gaz. vol. 151; p. 627.
Molding apparatus. W. H. Hofmann. No. 951,782; Mar. 8; Sp. p. 2680; Gaz. vol. 152; p. 462.
Molding apparatus. A. G. Ward. No. 951,861; Mar. 15; Sp. p. 2849; Gaz. vol. 152; p. 519.
Molding apparatus. S. Griffith. No. 954,430; Apr. 12; Sp. p. 1545; Gaz. vol. 153; p. 284.
Molding apparatus. E. E. Carter. No. 956,939; May 3; Sp. p. 943; Gaz. vol. 154; p. 151.
Molding apparatus. T. H. Brown. No. 962,002; June 21; Sp. p. 3667; Gaz. vol. 155; p. 644.
Molding apparatus. A. A. Pauly. No. 965,005; July 19; Sp. p. 4359; Gaz. vol. 156; p. 726.
Molding apparatus. A. A. Pauly. No. 965,006; July 19; Sp. p. 4360; Gaz. vol. 156; p. 727.
Molding apparatus. O. F. Paehlke. No. 966,762; Aug. 9; Sp. p. 2024; Gaz. vol. 157; p. 336.
Molding apparatus. W. H. Lose. No. 971,907; Oct. 4; Sp. p. 856; Gaz. vol. 159; p. 146.
Molding apparatus. T. De la Hunty. No. 976,464; Nov. 22; Sp. p. 5269; Gaz. vol. 160; p. 895.
Molding apparatus. F. H. Tidnam and J. H. Graves. No. 977,345; Nov. 29; Sp. p. 7189; Gaz. vol. 160; p. 1222.
Molding apparatus. I. L. Landis. No. 978,903; Dec. 20; Sp. p. 3180; Gaz. vol. 161; p. 564.
Molding-board. J. S. McQuinn. No. 951,785; Mar. 8; Sp. p. 2688; Gaz. vol. 152; p. 463.
Molding-box. A. Schrag. No. 948,253; Feb. 1; Sp. p. 967; Gaz. vol. 151; p. 158.
Molding-chaplet. G. L. Waitt. No. 961,183; June 14; Sp. p. 1904; Gaz. vol. 155; p. 346.
Molding device. J. E. Le Sueur. No. 952,265; Mar. 15; Sp. p. 3631; Gaz. vol. 152; p. 652.
Molding device. J. Rial. No. 971,407; Sept. 27; Sp. p. 4787; Gaz. vol. 158; p. 838.
Molding devices, Riser-lining for. E. C. Washburn. No. 969,015; Aug. 30; Sp. p. 6755; Gaz. vol. 157; p. 1177.
Molding double-headed chaplets and other articles. F. P. Johness. No. 966,558; Aug. 9; Sp. p. 1569; Gaz. vol. 157; p. 267.
Molding-flask. C. D. Smith. No. 948,528; Feb. 8; Sp. p. 1575; Gaz. vol. 151; p. 278.
Molding-flask. J. Barker. No. 973,907; Oct. 25; Sp. p. 5238; Gaz. vol. 159; p. 908.
Molding-flask drag. W. Fawcett. No. 948,167; Feb. 1; Sp. p. 789; Gaz. vol. 151; p. 131.
Molding liquids which solidify when cold, Apparatus for. J. Widmer-Ackermann. No. 953,249; Mar. 29; Sp. p. 5754; Gaz. vol. 152; p. 1042.
Molding-machine. G. W. Ross. No. 946,786; Jan. 18; Sp. p. 3968; Gaz. vol. 150; p. 659.
Molding-machine. W. W. Rowley. No. 947,702; Jan. 25; Sp. p. 5985; Gaz. vol. 150; p. 996.
Molding-machine. W. Lewis. No. 950,234; Feb. 22; Sp. p. 5222; Gaz. vol. 151; p. 915.
Molding-machine. H. E. Pridmore. No. 950,558; Mar. 1; Sp. p. 206; Gaz. vol. 152; p. 34.
Molding-machine. A. J. Rioux. No. 951,699; Mar. 8; Sp. p. 2491; Gaz. vol. 152; p. 433.
Molding-machine. J. G. Morrison. No. 951,830; Mar. 15; Sp. p. 2774; Gaz. vol. 152; p. 507.
Molding-machine. L. Parotti. No. 951,838; Mar. 15; Sp. p. 2802; Gaz. vol. 152; p. 511.
Molding-machine. W. Lewis. No. 951,953; Mar. 15; Sp. p. 3039; Gaz. vol. 152; p. 550.
Molding-machine. R. S. Buch. No. 953,894; Apr. 5; Sp. p. 415; Gaz. vol. 153; p. 76.
Molding-machine. H. Ripplinger. No. 955,356; Apr. 19; Sp. p. 3585; Gaz. vol. 153; p. 633.
Molding-machine. J. Allenson. No. 955,838; Apr. 19; Sp. p. 4631; Gaz. vol. 153; p. 799.
Monotype-machine. C. K. Rieck. No. 955,839; Apr. 19; Sp. p. 4638; Gaz. vol. 153; p. 800.
Molding-machine. W. O'Connor. No. 956,596; May 3; Sp. p. 191; Gaz. vol. 154; p. 33.
Molding-machine. E. Killing. No. 957,564; May 10; Sp. p. 2274; Gaz. vol. 154; p. 393.
Molding-machine. E. D. Misner. No. 958,520; May 17; Sp. p. 4604; Gaz. vol. 154; p. 755.
Molding-machine. H. P. Keyhoe and E. Handley. No. 960,177; May 31; Sp. p. 8121; Gaz. vol. 154; p. 1365.
Molding-machine. K. Nelson. No. 960,380; June 7; Sp. p. 292; Gaz. vol. 155; p. 49.
Molding-machine. P. F. Walstrom. No. 960,455; June 7; Sp. p. 423; Gaz. vol. 155; p. 72.
Molding-machine. W. Lewis and J. T. Ramsden. No. 960,974; June 7; Sp. p. 1473; Gaz. vol. 155; p. 247.
Molding-machine. E. E. O'Neill. No. 961,524; June 14; Sp. p. 2643; Gaz. vol. 155; p. 461.
Molding-machine. W. Lewis. No. 961,702; June 14; Sp. p. 3001; Gaz. vol. 155; p. 520.
Molding-machine. J. L. Hunter. No. 966,920; Aug. 9; Sp. p. 2361; Gaz. vol. 157; p. 386.
Molding-machine. M. L. Heyl and J. J. Lawlor. No. 968,560; Aug. 30; Sp. p. 5802; Gaz. vol. 157; p. 1022.
Molding-machine. W. H. Hofmann. No. 970,334; Sept. 13; Sp. p. 2543; Gaz. vol. 158; p. 429.
Molding-machine. V. Mauck and J. E. Wentling. No. 972,771; Oct. 11; Sp. p. 2732; Gaz. vol. 159; p. 465.
Molding-machine. C. P. Bohland and J. J. Connelly. No. 972,781; Oct. 11; Sp. p. 2747; Gaz. vol. 159; p. 468.
Molding-machine. G. L. Grimes. No. 972,851; Oct. 18; Sp. p. 2916; Gaz. vol. 159; p. 518.
Molding-machine. H. E. Pridmore. No. 975,715; Nov. 15; Sp. p. 3639; Gaz. vol. 160; p. 613.
Molding-machine. J. A. Williams. No. 976,530; Nov. 22; Sp. p. 5423; Gaz. vol. 160; p. 916.
Molding-machine. E. B. Sheets. No. 976,752; Nov. 22; Sp. p. 5872; Gaz. vol. 160; p. 992.
Molding-machine. E. Ronceray. No. 976,833; Nov. 22; Sp. p. 6030; Gaz. vol. 160; p. 1019.
Molding-machine. E. G. Todt. No. 977,687; Dec. 6; Sp. p. 603; Gaz. vol. 161; p. 92.
Molding-machine counterbalance. E. M. Huggins. No. 948,975; Feb. 8; Sp. p. 2512; Gaz. vol. 151; p. 427.
Molding machine, Sand-. J. Demeter. No. 960,844; June 7; Sp. p. 1222; Gaz. vol. 155; p. 203.
Molding or casting process and apparatus. G. Atterbury. No. 965,150; July 26; Sp. p. 4650; Gaz. vol. 156; p. 805.
Molding plastic materials, Machine for. J. B. Leamon. No. 960,968; June 7; Sp. p. 1454; Gaz. vol. 155; p. 245.
Molding purposes, Preparing granular material for. J. S. Robeson. No. 947,129; Jan. 18; Sp. p. 4684; Gaz. vol. 150; p. 773.
Molding-receptacle. C. D. Platt. No. 979,197; Dec. 20; Sp. p. 3871; Gaz. vol. 161; p. 670.
Molding threaded objects, Machine for. F. W. Engström. No. 961,944; June 21; Sp. p. 3543; Gaz. vol. 155; p. 625.
Moldings, Manufacture of. P. Weiss. No. 966,372; Aug. 2; Sp. p. 1094; Gaz. vol. 157; p. 176.
Money-changing device. E. D. Hale. No. 966,741; Aug. 9; Sp. p. 1959; Gaz. vol. 157; p. 329.
Monkey-wrench. P. C. Post. No. 952,634; Mar. 22; Sp. p. 4434; Gaz. vol. 152; p. 808.
Monkey-wrench. W. L. Reusch. No. 968,689; Aug. 30; Sp. p. 6108; Gaz. vol. 157; p. 1068.
Monkey-wrench. F. B. Cutler. No. 972,342; Oct. 11; Sp. p. 1792; Gaz. vol. 159; p. 314.

Monkey-wrench. C. C. Guernsey. No. 978,151; Dec. 13; Sp. p. 1593; Gaz. vol. 161; p. 283.
Monoline-machine. J. McNamara. No. 951,654; Mar. 8; Sp. p. 2421; Gaz. vol. 152; p. 419.
Monolithic construction. E. Sobel, W. Gold, and J. Stretch. No. 951,031; Mar. 1; Sp. p. 1158; Gaz. vol. 152; p. 189.
Monolithic construction. E. Sobel, W. Gold, and J. Stretch. No. 969,212; Sept. 6; Sp. p. 149; Gaz. vol. 158; p. 24.
Monolithic construction. E. Sobel, W. Gold, and J. Stretch. No. 969,213; Sept. 6; Sp. p. 150; Gaz. vol. 158; p. 24.
Monoplane. E. H. Boeckh. No. 966,424; Aug. 9; Sp. p. 1203; Gaz. vol. 157; p. 219.
Monorail trackway system, Overhead. H. M. Harding. No. 961,348; June 14; Sp. p. 2287; Gaz. vol. 155; p. 404.
Monotype-machines, Making matrix-plates for. W. Nicholas. No. 960,684; June 7; Sp. p. 905; Gaz. vol. 155; p. 150.
Monument and tombstone. J. Ifft. No. 963,572; July 5; Sp. p. 1229; Gaz. vol. 156; p. 188.
Monument or tombstone. J. Ifft. No. 945,721; Jan. 4; Sp. p. 1539; Gaz. vol. 150; p. 239.
Mop. T. Evans. No. 945,772; Jan. 11; Sp. p. 1702; Gaz. vol. 150; p. 285.
Mop. F. E. Hill. No. 946,965; Jan. 18; Sp. p. 4388; Gaz. vol. 150; p. 721.
Mop. J. D. Keeney. No. 949,679; Feb. 15; Sp. p. 3943; Gaz. vol. 151; p. 687.
Mop. C. W. Huff. No. 963,566; July 5; Sp. p. 1210; Gaz. vol. 156; p. 186.
Mop. H. B. Wallace and A. Lackey. No. 965,546; July 26; Sp. p. 5527; Gaz. vol. 156; p. 940.
Mop and brush holder. F. Dehling. No. 950,897; Mar. 1; Sp. p. 919; Gaz. vol. 152; p. 146.
Mop and brush holder, Combined. E. O. Loeber. No. 972,458; Oct. 11; Sp. p. 2033; Gaz. vol. 159; p. 356.
Mop and hardwood-floor device, Combination. E. T. Baskin. No. 947,959; Feb. 1; Sp. p. 377; Gaz. vol. 151; p. 61.
Mop and scrubbing-brush, Combined. J. O. Beazley. No. 977,064; Nov. 29; Sp. p. 6590; Gaz. vol. 160; p. 1125.
Mop attachment. W. E. Arrant. No. 973,612; Oct. 25; Sp. p. 4621; Gaz. vol. 159; p. 803.
Mop-head. E. H. Fenton. No. 948,315; Feb. 8; Sp. p. 1118; Gaz. vol. 151; p. 205.
Mop-head. R. R. Brakeman. No. 952,301; Mar. 15; Sp. p. 3716; Gaz. vol. 152; p. 664.
Mop-head. W. H. Zachry. No. 957,025; May 3; Sp. p. 1142; Gaz. vol. 154; p. 180.
Mop-head. C. Gabel. No. 959,131; May 24; Sp. p. 5892; Gaz. vol. 154; p. 987.
Mop-head. J. N. Young. No. 972,315; Oct. 11; Sp. p. 1743; Gaz. vol. 159; p. 306.
Mop head and wringer. C. H. Lien. No. 965,472; July 26; Sp. p. 5341; Gaz. vol. 156; p. 914.
Mop head and wringer, Combined. L. Weiwers. No. 952,551; Mar. 22; Sp. p. 4241; Gaz. vol. 152; p. 778.
Mop head and wringer, Combined. C. Gabel. No. 959,130; May 24; Sp. p. 5891; Gaz. vol. 154; p. 987.
Mop head and wringer, Combined. W. J. Curry. No. 960,627; June 7; Sp. p. 800; Gaz. vol. 155; p. 131.
Mop head and wringer, Combined. A. R. Douglass and J. F. Willett. No. 970,197; Sept. 13; Sp. p. 2259; Gaz. vol. 158; p. 382.
Mop head and wringer, Combined. A. Fischer, Jr. No. 973,491; Oct. 25; Sp. p. 4366; Gaz. vol. 159; p. 764.
Mop head and wringer, Combined. J. S. O'Brien. No. 976,283; Nov. 22; Sp. p. 4873; Gaz. vol. 160; p. 832.
Mop-holder. R. Kline. No. 966,692; Aug. 9; Sp. p. 1825; Gaz. vol. 157; p. 312.
Mop-holder. A. J. Ean. No. 979,834; Dec. 27; Sp. p. 5248; Gaz. vol. 161; p. 908.
Mop holder and wringer. E. T. Weber. No. 972,739; Oct. 11; Sp. p. 2678; Gaz. vol. 159; p. 454.
Mop-stick. W. P. Shattuck. No. 973,392; Oct. 18; Sp. p. 4147; Gaz. vol. 159; p. 707.
Mop-wringer. J. Myers. No. 946,765; Jan. 18; Sp. p. 3914; Gaz. vol. 150; p. 652.
Mop-wringer. J. L. Simmons. No. 950,705; Mar. 1; Sp. p. 526; Gaz. vol. 152; p. 83.
Mop-wringer. E. Charpentier. No. 955,944; Apr. 26; Sp. p. 4883; Gaz. vol. 153; p. 864.
Mop-wringer. S. T. Atkin. No. 959,285; May 24; Sp. p. 6209; Gaz. vol. 154; p. 1037.
Mop-wringer. W. Monahan. No. 960,371; June 7; Sp. p. 272; Gaz. vol. 155; p. 46.
Mop-wringer. W. H. Wetmore. No. 969,229; Sept. 6; Sp. p. 185; Gaz. vol. 158; p. 30.
Mop-wringer. T. F. Condon. No. 974,236; Nov. 1; Sp. p. 345; Gaz. vol. 160; p. 49.
Mop-wringer. H. C. White and O. N. Wardwell. No. 976,238; Nov. 22; Sp. p. 4766; Gaz. vol. 160; p. 816.
Mop-wringer. J. Ziebur. No. 978,257; Dec. 13; Sp. p. 1826; Gaz. vol. 161; p. 319.
Mop-wringer attachment for pails. M. Charpentier. No. 967,497; Aug. 9; Sp. p. 3568; Gaz. vol. 157; p. 612.
Mop-wringing support. C. E. Strating. No. 971,702; Oct. 4; Sp. p. 399; Gaz. vol. 159; p. 69.
Mortar-feeding device. C. E. Allred. No. 972,793; Oct. 18; Sp. p. 2784; Gaz. vol. 159; p. 497.
Mortar-mixers, Blade or paddle for. J. Laun. No. 967,646; Aug. 16; Sp. p. 3852; Gaz. vol. 157; p. 661.
Mortise-lock. A. Lawrence. No. 950,108; Feb. 22; Sp. p. 4947; Gaz. vol. 151; p. 871.
Mortise-lock. E. B. Rees. No. 969,725; Sept. 6; Sp. p. 1211; Gaz. vol. 158; p. 196.
Mortise-lock. L. A. Coleman. No. 977,783; Dec. 6; Sp. p. 801; Gaz. vol. 161; p. 124.
Mortising-bit gage, Lock-. M. Nicholls. No. 971,627; Oct 4; Sp. p. 252; Gaz. vol. 159; p. 45.
Mortising-machine. L. Faust and F. G. Hogland. No. 955,834; Apr. 19; Sp. p. 4616; Gaz. vol. 153; p. 798.
Mortising-machine. O. Crank. No. 970,689; Sept. 20; Sp. p. 3321; Gaz. vol. 158; p. 570.
Mortising-machine, Hollow-chisel. J. R. Thomas. No. 965,962; Aug. 2; Sp. p. 237; Gaz. vol. 157; p. 40.
Mosquito-bar frame, Folding. E. Tyner. No. 976,950; Nov. 29; Sp. p. 6346; Gaz. vol. 160; p. 1086.
Mosquito-bar support. A. F. Chastant. No. 949,620; Feb. 15; Sp. p. 3840; Gaz. vol. 151; p. 669.
Mosquito-net frame. E. L. Moffitt. No. 953,965; Apr. 5; Sp. p. 553; Gaz. vol. 153; p. 100.
Moth-destroying composition. A. Posselt. No. 979,704; Dec. 27; Sp. p. 4926; Gaz. vol. 161; p. 864.
Motion-converting mechanism. J. S. Watterson. No. 950,975; Mar. 1; Sp. p. 1072; Gaz. vol. 152; p. 171.
Motion-converting mechanism. W. D. McGee. No. 974,412; Nov. 1; Sp. p. 747; Gaz. vol. 160; p. 113.
Motion, Device for converting reciprocating into rotary. H. C. Hammond. No. 947,233; Jan. 25; Sp. p. 4913; Gaz. vol. 150; p. 837.
Motion, Mechanism for transmitting rotary. T. Brown. No. 947,588; Jan. 25; Sp. p. 5768; Gaz. vol. 150; p. 959.
Motion, Mechanism for transmitting rotary. W. L. Harrison. No. 978,371; Dec. 13; Sp. p. 2059; Gaz. vol. 161; p. 359.
Motion mechanism, Intermittent-. C. R. Uebelmesser. No. 964,712; July 19; Sp. p. 3764; Gaz. vol. 156; p. 626.
Motion-transmitting device. D. E. Selders. No. 969,910; Sept. 13; Sp. p. 1655; Gaz. vol. 158; p. 285.
Motion-transmitting device. J. F. Pagendarm. No. 976,907; Nov. 29; Sp. p. 6216; Gaz. vol. 160; p. 1070.
Motion-transmitting mechanism. R. Zahn. No. 961,830; June 21; Sp. p. 3301; Gaz. vol. 155; p. 588.
Motion-transmitting mechanism, Reciprocating-. D. Roberts. No. 975,283; Nov. 8; Sp. p. 2717; Gaz. vol. 160; p. 440.
Motive fluid, Apparatus for generating. G. B. Hayes. No. 976,077; Nov. 15; Sp. p. 4337; Gaz. vol. 160; p. 737.
Motive-power apparatus. C. H. Atkins. No. 951,171; Mar. 8; Sp. p. 1431; Gaz. vol. 152; p. 259.
Motive-power-producing apparatus. H. Maxim. No. 974,166; Nov. 1; Sp. p. 117; Gaz. vol. 160; p. 23.
Motive-power-producing machinery. C. Tellier. No. 947,867; Feb. 1; Sp. p. 184; Gaz. vol. 151; p. 32.
Motive-power system. A. Wilstam. No. 968,724; Aug. 30; Sp. p. 6177; Gaz. vol. 157; p. 1079.
Motor: *See* Acid-motor; Air-motor; Auxiliary motor; Churn-operating motor; Commutator-motor; Current-motor; Current commutator-motor; Cycle-motor; Diaphragm-motor; Differential-speed motor; Drying-machine motor; Electric motor; Explosion-motor; Explosion and steam motor; Fluid-motor; Fluid-actuated motor; Fluid-jet motor; Fluid-pressure motor; Hot-air motor; Hydraulic motor; Induction-motor; Internal-combustion motor; Liquid-motor; Oscillating motor; Pneumatic motor; Pump-motor; Railway-motor; Reciprocating motor; Revolving-cylinder motor; Rotary motor; Spring-motor; Temperature-regulator motor; Thermodynamic motor; Tide-motor; Tide-water motor; Traction-motor; Tread-motor; Tube-cleaner motor; Turbine-motor; Washing-machine water-motor; Water-motor; Water-power paddle-motor; Wave-motor; Wave and current motor; Weight-motor; Wind-motor.
Motor. M. R. Güttler. No. 947,061; Jan. 18; Sp. p. 4565; Gaz. vol. 150; p. 752.
Motor. I. V. Moody. No. 947,594; Jan. 25; Sp. p. 5781; Gaz. vol. 150; p. 960.
Motor. L. Janik. No. 949,901; Feb. 22; Sp. p. 4470; Gaz. vol. 151; p. 799.
Motor. J. Zieg. No. 949,951; Feb. 22; Sp. p. 4570; Gaz. vol. 151; p. 817.
Motor. W. E. Snaman. No. 953,444; Mar. 29; Sp. p. 6170; Gaz. vol. 152; p. 1107.
Motor. A. F. Rockwell. No. 962,254; June 21; Sp. p. 4221; Gaz. vol. 155; p. 732.
Motor. N. Lombard. No. 962,711; June 28; Sp. p. 5231; Gaz. vol. 155; p. 913.
Motor. G. E. W. Luehrmann. No. 966,757; Aug. 9; Sp. p. 2014; Gaz. vol. 157; p. 335.
Motor. W. V. Frank. No. 969,467; Sept. 6; Sp. p. 654; Gaz. vol. 158; p. 105.
Motor. I. M. Dotson. No. 969,685; Sept. 6; Sp. p. 1129; Gaz. vol. 158; p. 182.
Motor. D. F. Lawrence. No. 971,854; Oct. 4; Sp. p. 727; Gaz. vol. 159; p. 127.
Motor. C. W. Weiss. No. 976,236; Nov. 22; Sp. p. 4757; Gaz. vol. 160; p. 815.
Motor. C. L. Wilkins. No. 976,763; Nov. 22; Sp. p. 5894; Gaz. vol. 160; p. 996.

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Motor and lazy-tongs elevator. C. A. Schwarz. No. 956,189; Apr. 26; Sp. p. 5435; Gaz. vol. 153; p. 951.
Motor attachment, Vehicle. W. S. Jones. No. 967,931; Aug. 23; Sp. p. 4431; Gaz. vol. 157; p. 780.
Motor-base. I. H. Spencer. No. 968,995; Aug. 30; Sp. p. 6715; Gaz. vol. 157; p. 1169.
Motor-chair. P. Auger. No. 952,864; Mar. 22; Sp. p. 4919; Gaz. vol. 152; p. 886.
Motor-compressor. W. H. Lieber. No. 961,085; June 7; Sp. p. 1712; Gaz. vol. 155; p. 284.
Motor-compressor. B. V. Nordberg. No. 978,194; Dec. 13; Sp. p. 1686; Gaz. vol. 161; p. 297.
Motor control. E. F. W. Alexanderson. No. 957,454; May 10; Sp. p. 2055; Gaz. vol. 154; p. 356.
Motor control. H. Heymann. No. 962,835; June 28; Sp. p. 5476; Gaz. vol. 155; p. 957.
Motor control. E. R. Carichoff. No. 964,751; July 19; Sp. p. 3840; Gaz. vol. 156; p. 640.
Motor control. W. I. Slichter. No. 973,575; Oct. 25; Sp. p. 4531; Gaz. vol. 159; p. 791.
Motor control. A. M. Coyle. No. 974,238; Nov. 1; Sp. p. 348; Gaz. vol. 160; p. 50.
Motor control. D. L. Lindquist. No. 980,109; Dec. 27; Sp. p. 5837; Gaz. vol. 161; p. 998.
Motor control, Alternating-current-. E. F. W. Alexanderson. No. 946,751; Jan. 18; Sp. p. 3881; Gaz. vol. 150; p. 648.
Motor-control apparatus. A. E. Stevens. No. 958,442; May 17; Sp. p. 4457; Gaz. vol. 154; p. 728.
Motor control, Electric-. L. V. Lewis. No. 967,210; Aug. 16; Sp. p. 2963; Gaz. vol. 157; p. 513.
Motor control, Electric-. H. D. James. No. 974,152; Nov. 1; Sp. p. 88; Gaz. vol. 160; p. 18.
Motor control, Electric-. H. W. Leonard. No. 979,078; Dec. 20; Sp. p. 3576; Gaz. vol. 161; p. 625.
Motor control, Multiple-voltage system of. H. W. Cheney. No. 960,505; June 7; Sp. p. 539; Gaz. vol. 155; p. 89.
Motor control, Single-phase-. E. F. W. Alexanderson. No. 949,346; Feb. 15; Sp. p. 3295; Gaz. vol. 151; p. 577.
Motor control, Single-phase-. G. H. Hill. No. 953,036; Mar. 29; Sp. p. 5270; Gaz. vol. 152; p. 971.
Motor-control system. C. E. Lord. No. 945,103; Jan. 4; Sp. p. 200; Gaz. vol. 150; p. 34.
Motor-control system. F. H. Shepard. No. 947,313; Jan. 25; Sp. p. 5127; Gaz. vol. 150; p. 866.
Motor-control system. E. W. Stull. No. 949,097; Feb. 15; Sp. p. 2771; Gaz. vol. 151; p. 492.
Motor-control system. E. R. Carichoff. No. 949,995; Feb. 22; Sp. p. 4709; Gaz. vol. 151; p. 832.
Motor-control system. H. B. Emerson. No. 963,127; July 5; Sp. p. 261; Gaz. vol. 156; p. 35.
Motor-control system. E. L. Gale, Sr. No. 965,175; July 26; Sp. p. 4692; Gaz. vol. 156; p. 813.
Motor-control system. S. H. Keefer. No. 967,133; Aug. 9; Sp. p. 2804; Gaz. vol. 157; p. 460.
Motor-control system. H. E. White. No. 969,583; Sept. 6; Sp. p. 924; Gaz. vol. 158; p. 147.
Motor-control system. L. Janisch. No. 971,199; Sept. 27; Sp. p. 4390; Gaz. vol. 158; p. 770.
Motor-control system. F. B. Rae. No. 975,572; Nov. 15; Sp. p. 3334; Gaz. vol. 160; p. 566.
Motor-control system. H. E. White. No. 977,912; Dec. 6; Sp. p. 1065; Gaz. vol. 161; p. 169.
Motor-control system, Alternating-direct-current-. R. P. Jackson. No. 967,386; Aug. 16; Sp. p. 3314; Gaz. vol. 157; p. 574.
Motor-control system, Alternating-direct-current-. R. P. Jackson. No. 967,387; Aug. 16; Sp. p. 3323; Gaz. vol. 157; p. 575.
Motor-control system, Electric-. M. Hartenheim. No. 947,329; Jan. 25; Sp. p. 5164; Gaz. vol. 150; p. 871.
Motor-control system, Electric-. W. Cooper. No. 949,114; Feb. 15; Sp. p. 2813; Gaz. vol. 151; p. 498.
Motor-control system, Electric-. B. G. Lamme. No. 964,794; July 19; Sp. p. 3936; Gaz. vol. 156; p. 654.
Motor control, System of electric-. W. H. Thompson. No. 977,571; Dec. 6; Sp. p. 359; Gaz. vol. 161; p. 52.
Motor-controller. C. T. Henderson. No. 945,093; Jan. 4; Sp. p. 182; Gaz. vol. 150; p. 31.
Motor-controller. T. E. Barnum. No. 959,907; May 31; Sp. p. 7524; Gaz. vol. 154; p. 1272.
Motor-controller. H. W. Cheney. No. 965,280; July 26; Sp. p. 4912; Gaz. vol. 156; p. 847.
Motor-controller. G. H. Whittingham. No. 965,676; July 26; Sp. p. 5804; Gaz. vol. 156; p. 986.
Motor-controller. W. B. Lucas. No. 973,525; Oct. 25; Sp. p. 4436; Gaz. vol. 159; p. 775.
Motor-controller. G. A. Bauer. No. 979,250; Dec. 20; Sp. p. 4001; Gaz. vol. 161; p. 688.
Motor-controller, Automatic. A. E. Handy. No. 948,560; Feb. 8; Sp. p. 1648; Gaz. vol. 151; p. 288.
Motor controller, Electric-. W. M. Connelly. No. 955,137; Apr. 19; Sp. p. 3112; Gaz. vol. 153; p. 558.
Motor controller, Electric-. E. Gruenfeldt. No. 960,896; June 7; Sp. p. 1322; Gaz. vol. 155; p. 222.
Motor controller, Electric-. G. H. Whittingham. No. 965,673; July 26; Sp. p. 5790; Gaz. vol. 156; p. 984.
Motor controller, Electric-. R. F. Baerlocker. No. 969,509; Sept. 6; Sp. p. 756; Gaz. vol. 158; p. 119.
Motor controller, Electric-. H. L. Beach. No. 969,513; Sept. 6; Sp. p. 762; Gaz. vol. 158; p. 121.
Motor controller-switch, Electric-. S. M. Ward, Jr. No. 961,185; June 14; Sp. p. 1907; Gaz. vol. 155; p. 346.
Motor-controlling apparatus. S. H. Keefer. No. 967,782; Aug. 16; Sp. p. 4127; Gaz. vol. 157; p. 707.
Motor-controlling apparatus. S. H. Keefer. No. 972,625; Oct. 11; Sp. p. 2438; Gaz. vol. 159; p. 416.
Motor-controlling apparatus, Electric-. G. H. Whittingham. No. 965,672; July 26; Sp. p. 5783; Gaz. vol. 156; p. 984.
Motor-controlling apparatus, Electric-. H. W. Leonard. No. 978,173; Dec. 13; Sp. p. 1641; Gaz. vol. 161; p. 290.
Motor-controlling apparatus, Inductive. A. Sundh. No. 952,650; Mar. 22; Sp. p. 4461; Gaz. vol. 152; p. 813.
Motor-controlling device. L. S. Chapman. No. 958,365; May 17; Sp. p. 4297; Gaz. vol. 154; p. 701.
Motor-controlling device. G. T. Eagar. No. 958,380; May 17; Sp. p. 4329; Gaz. vol. 154; p. 707.
Motor-controlling device. T. E. Barnum. No. 959,908; May 31; Sp. p. 7530; Gaz. vol. 154; p. 1272.
Motor-controlling device, Electric-. F. A. Hayes. No. 948,374; Feb. 8; Sp. p. 1252; Gaz. vol. 151; p. 226.
Motor-controlling means, Electric-. G. H. Whittingham. No. 965,674; July 26; Sp. p. 5795; Gaz. vol. 156; p. 985.
Motor-cooling means. A. F. Rockwell. No. 962,249; June 21; Sp. p. 4205; Gaz. vol. 155; p. 730.
Motor-cooling means. A. F. Rockwell. No. 962,250; June 21; Sp. p. 4209; Gaz. vol. 155; p. 731.
Motor-cooling system. J. G. Cooke. No. 980,068; Dec. 27; Sp. p. 5725; Gaz. vol. 161; p. 985.
Motor-driving mechanism. L. E. Underwood. No. 957,277; May 10; Sp. p. 1692; Gaz. vol. 154; p. 296.
Motor-engine turbine or reaction wheel, Internal-combustion-. J. Hutchings. No. 967,778; Aug. 16; Sp. p. 4119; Gaz. vol. 157; p. 705.
Motor fluid, Apparatus for producing a. H. Maxim. No. 956,813; May 3; Sp. p. 678; Gaz. vol. 154; p. 107.
Motor for driving boiler-tube cleaners. H. F. Weinland. No. 967,693; Aug. 16; Sp. p. 3939; Gaz. vol. 157; p. 676.
Motor, Means for effecting the control of an alternating-current electric. A Sundh. No. 950,467; Feb. 22; Sp. p. 5653; Gaz. vol. 151; p. 991.
Motor-meter, Electric. A. Zipplies. No. 968,631; Aug. 30; Sp. p. 5948; Gaz. vol. 157; p. 1047.
Motor-operated devices, Limit-switch for. H. A. Steen. No. 963,825; July 12; Sp. p. 1796; Gaz. vol. 156; p. 295.
Motor regulator, Pneumatic-. T. Danquard. No. 957,752; May 10; Sp. p. 2652; Gaz. vol. 154; p. 457.
Motor-reversing gear, Automatic. B. Loutzky. No. 954,867; Apr. 12; Sp. p. 2573; Gaz. vol. 153; p. 438.
Motor-saddle. H. W. Forslund. No. 963,755; July 12; Sp. p. 1610; Gaz. vol. 156; p. 271.
Motor safety appliance. P. R. Forman. No. 980,090; Dec. 27; Sp. p. 5784; Gaz. vol. 161; p. 991.
Motor safety attachment, Hydraulic-. G. J. Henry, Jr. No. 958,120; May 17; Sp. p. 3648; Gaz. vol. 154; p. 615.
Motor-starter. A. J. Burns. No. 957,741; May 10; Sp. p. 2624; Gaz. vol. 154; p. 454.
Motor-starter. F. D. Hallock. No. 958,804; May 24; Sp. p. 5196; Gaz. vol. 154; p. 876.
Motor-starter. G. H. Whittingham. No. 965,675; July 26; Sp. p. 5801; Gaz. vol. 156; p. 985.
Motor-starter. C. T. Henderson. No. 969,866; Sept. 13; Sp. p. 1565; Gaz. vol. 158; p. 269.
Motor-starter, Automatic. G. H. Whittingham and W. C. O'Brien. No. 965,840; July 26; Sp. p. 6144; Gaz. vol. 156; p. 1042.
Motor starter, Electric-. K. von Dreger. No. 954,724; Apr. 12; Sp. p. 2222; Gaz. vol. 153; p. 386.
Motor starter, Electric-. W. C. O'Brien and G. H. Whittingham. No. 965,649; July 26; Sp. p. 5742; Gaz. vol. 156; p. 976.
Motor-starting apparatus, Electric-. S. B. Paine. No. 963,169; July 5; Sp. p. 357; Gaz. vol. 156; p. 51.
Motor-starting cranks, Lock for. R. D. Markham. No. 958,815; May 24; Sp. p. 5218; Gaz. vol. 154; p. 880.
Motor-starting device, Eelctric-. D. H. Plank and A. C. Finney. No. 962,856; June 28; Sp. p. 5511; Gaz. vol. 155; p. 965.
Motor-starting device, Electric-. H. H. Lee and A. E. Button. No. 963,160; July 5; Sp. p. 338; Gaz. vol. 156; p. 48.
Motor-starting device, Electrical-. H. Weichsel. No. 957,587; May 10; Sp. p. 2307; Gaz. vol. 154; p. 401.
Motor-starting gear, Internal-Combustion-. P. Daimler and A. Vischer. No. 972,512; Oct. 11; Sp. p. 2166; Gaz. vol. 159; p. 376.
Motor-starting switch, Double-throw. S. B. Condit, Jr. No. 953,084; Mar. 29; Sp. p. 5385; Gaz. vol. 152; p. 987.
Motor-starting switch, Electric-. E. Garside. No. 950,130; Feb. 22; Sp. p. 4992; Gaz. vol. 151; p. 878.
Motor-starting switch, Electric-. E. Garside. No. 957,945; May 17; Sp. p. 3080; Gaz. vol. 154; p. 552.
Motor switch, Electric-. H. C. Grant. No. 955,154; Apr. 19; Sp. p. 3144; Gaz. vol. 153; p. 565.
Motor-wheel. J. N. and J. H. Johnson. No. 972,453; Oct. 11; Sp. p. 2022; Gaz. vol. 159; p. 355.
Motor worked by explosive mixture. A. Lavoix. No. 964,030; July 12; Sp. p. 2215; Gaz. vol. 156; p. 365.

Motors and generators, System of operation of alternating-current. W. Cooper. No. 977,597; Dec. 6; Sp. p. 414; Gaz. vol. 161; p. 61.
Motors and receptacles, Support for. J. C. Neuschwander. No. 949,197; Feb. 15; Sp. p. 2973; Gaz. vol. 151; p. 526.
Motors, Arrangement for starting and regulating the speed of alternating-current. E. Arnold and J. L. La Cour. No. 963,678; July 5; Sp. p. 1422; Gaz. vol. 156; p. 223.
Motors, Automatic controlling-switch for electric. R. L. Guion and B. C. Johnson. No. 953,006; Mar. 22; Sp. p. 5202; Gaz. vol. 152; p. 933.
Motors, Auxiliary mixer for internal-combustion. R. D. Loose. No. 959,950; May 31; Sp. p. 7637; Gaz. vol. 154; p. 1288.
Motors, Braking alternating-current. E. F. W. Alexanderson. No. 967,295; Aug. 16; Sp. p. 3126; Gaz. vol. 157; p. 541.
Motors, Cut-off for fluid-pressure. J. H. Champ. No. 956,287; Apr. 26; Sp. p. 5651; Gaz. vol. 153; p. 983.
Motors, Electric ignition system for explosion-. R. Varley. No. 955,618; Apr. 19; Sp. p. 4155; Gaz. vol. 153; p. 723.
Motors, End ring for induction-. H. Maxwell. No. 976,670; Nov. 22; Sp. p. 5703; Gaz. vol. 160; p. 964.
Motors, Feeding means for explosion-. W. R. MacGuyer. No. 962,371; June 21; Sp. p. 4468; Gaz. vol. 155; p. 771.
Motors, Foot-controller for electric-. J. F. Hammond. No. 969,055; Aug. 30; Sp. p. 6834; Gaz. vol. 157; p. 1190.
Motors, Governor for spring-. G. Wodtli. No. 966,782; Aug. 9; Sp. p. 2061; Gaz. vol. 157; p. 343.
Motors, Guide-wheel for plow-. E. M., E. F., and D. O. Wheelock. No. 954,839; Apr. 12; Sp. p. 2508; Gaz. vol. 153; p. 427.
Motors, Means for automatically controlling electric. H. W. Leonard. No. 960,971; June 7; Sp. p. 1463; Gaz. vol. 155; p. 246.
Motors, Means for improving the efficiency of hot-air or external-combustion. E. Schneider. No. 973,221; Oct. 18; Sp. p. 3791; Gaz. vol. 159; p. 648.
Motors, Means for operating and controlling single-phase alternating-current. B. G. Lamme. No. 964,659; July 19; Sp. p. 3550; Gaz. vol. 156; p. 608.
Motors, Means for starting alternating-current. W. J. Foster. No. 955,455; Apr. 19; Sp. p. 3796; Gaz. vol. 153; p. 667.
Motors, Means for stopping electric. G. H. Whittingham. No. 965,670; July 26; Sp. p. 5776; Gaz. vol. 156; p. 983.
Motors, Method of and means for controlling regenerative electric. R. Lundell. No. 969,894; Sept. 13; Sp. p. 1621; Gaz. vol. 158; p. 280.
Motors, Method of and means for reversing. A. S. Cubitt. No. 960,000; May 31; Sp. p. 7754; Gaz. vol. 154; p. 1306.
Motors, Operating and controlling single-phase alternating-current. B. G. Lamme. No. 964,793; July 19; Sp. p. 3932; Gaz. vol. 156; p. 654.
Motors, Operating electric. B. G. Lamme. No. 964,658; July 19; Sp. p. 3546; Gaz. vol. 156; p. 607.
Motors, Power-transmitting mechanism for wind-. F. Hannaman. No. 950,750; Mar. 1; Sp. p. 623; Gaz. vol. 152; p. 99.
Motors, Priming-cup for internal-combustion. A. L. Lockwood. No. 953,478; Mar. 29; Sp. p. 6242; Gaz. vol. 152; p. 1119.
Motors, Rheostatic controller for electric. F. D. Hallock. No. 958,805; May 24; Sp. p. 5198; Gaz. vol. 154; p. 876.
Motors, Speed and circuit controlling apparatus for electric. J. A. Schaefer. No. 959,887; May 31; Sp. p. 7487; Gaz. vol. 154; p. 1265.
Motors, Speed-multiplying mechanism for. A. L. Heglar. No. 947,908; Feb. 1; Sp. p. 272; Gaz. vol. 151; p. 45.
Motors, System of regenerative control for electric. B. G. Lamme. No. 978,038; Dec. 6; Sp. p. 1329; Gaz. vol. 161; p. 213.
Motors to keep in step with the waves or impulses of the current driving them and a motor embodying the process, Compelling electric. J. J. Montgomery. No. 974,415; Nov. 1; Sp. p. 756; Gaz. vol. 160; p. 115.
Motors, Variable-speed-controlling device for electric. S. H. Keefer. No. 953,468; Mar. 29; Sp. p. 6218; Gaz. vol. 152; p. 1116.
Motors working on a closed cycle, Apparatus for discharging excess exhaust-gases from. G. F. Jaubert. No. 953,146; Mar. 29; Sp. p. 5529; Gaz. vol. 152; p. 1008.
Mount for entomological specimens. F. Teute. No. 970,665; Sept. 20; Sp. p. 3262; Gaz. vol. 158; p. 562.
Mount-trimming machine. C. H. Cadieu. No. 949,110; Feb. 15; Sp. p. 2803; Gaz. vol. 151; p. 496.
Mounting. G. W. Dover. No. 971,181; Sept. 27; Sp. p. 4357; Gaz. vol. 158; p. 764.
Mounting for bones of a body, Articulated. H. H. Fryette. No. 979,147; Dec. 20; Sp. p. 3773; Gaz. vol. 161; p. 653.
Mouse and rat trap. W. Teeter. No. 973,583; Oct. 25; Sp. p. 4552; Gaz. vol. 159; p. 794.
Mouse-trap. G. O. Terry. No. 948,908; Feb. 8; Sp. p. 2377; Gaz. vol. 151; p. 404.
Mouth-illuminator. T. G. Lewis. No. 978,910; Dec. 20; Sp. p. 3192; Gaz. vol. 161; p. 567.
Mouthpiece-cover, Antiseptic. W. H. Waldron and L. R. Krumm. No. 965,257; July 26; Sp. p. 4863; Gaz. vol. 156; p. 840.
Mouthpiece-tubes, Apparatus for making. J. C. Müller. No. 977,394; Nov. 29; Sp. p. 7325; Gaz. vol. 160; p. 1239.
Movement-cure apparatus. T. Büdingen. No. 964,898; July 19; Sp. p. 4147; Gaz. vol. 156; p. 690.
Movement of bodies, Mechanism for yieldingly resisting relative. R. D. Gallagher, Jr. No. 978,873; Dec. 20; Sp. p. 3116; Gaz. vol. 161; p. 553.
Moving material, Apparatus for. C. W. Hill. No. 973,784; Oct. 25; Sp. p. 4974; Gaz. vol. 159; p. 865.
Mower. C. Larson. No. 948,333; Feb. 8; Sp. p. 1147; Gaz. vol. 151; p. 211.
Mower. V. P. Hollis. No. 960,551; June 7; Sp. p. 642; Gaz. vol. 155; p. 104.
Mower and harvester. H. L. Hopkins. No. 959,535; May 31; Sp. p. 6734; Gaz. vol. 154; p. 1146.
Mower attachment. L. Franzmeier. No. 973,421; Oct. 18; Sp. p. 4209; Gaz. vol. 159; p. 717.
Mower attachment, Lawn-. S. W. Gooding. No. 955,261; Apr. 19; Sp. p. 3382; Gaz. vol. 153; p. 602.
Mower attachment, Lawn-. J. Kelling. No. 973,667; Oct. 25; Sp. p. 4747; Gaz. vol. 159; p. 824.
Mower cutting-reel, Lawn-. G. A. Culver. No. 966,800; Aug. 9; Sp. p. 2100; Gaz. vol. 157; p. 348.
Mower, Ditch-. J. W. Yocum. No. 961,995; June 21; Sp. p. 3650; Gaz. vol. 155; p. 642.
Mower, Lawn-. C. E. Peterson. No. 945,191; Jan. 4; Sp. p. 377; Gaz. vol. 150; p. 63.
Mower, Lawn-. J. H. Pearson. No. 950,008; Feb. 22; Sp. p. 4743; Gaz. vol. 151; p. 837.
Mower, Lawn-. J. C. Montgomery. No. 953,541; Mar. 29; Sp. p. 6381; Gaz. vol. 152; p. 1142.
Mower, Lawn-. L. L. Lovett. No. 956,385; Apr. 26; Sp. p. 5851; Gaz. vol. 153; p. 1017.
Mower, Lawn-. W. M. Potter. No. 956,601; May 3; Sp. p. 205; Gaz. vol. 154; p 35.
Mower, Lawn-. J. H. Smith. No. 957,009; May 3; Sp. p. 1108; Gaz. vol. 154; p. 174.
Mower, Lawn-. G. A. Culver. No. 957,145; May 3; Sp. p. 1367; Gaz. vol. 154; p. 219.
Mower, Lawn-. A. B. Case. No. 960,503; June 7; Sp. p. 529; Gaz. vol. 155; p. 88.
Mower, Lawn-. J. H. Auble. No. 962,407; June 28; Sp. p. 4540; Gaz. vol. 155; p. 807.
Mower, Lawn-. S. T. Nelson. No. 962,780; June 28; Sp. p. 5367; Gaz. vol. 155; p. 938.
Mower, Lawn-. T. Crawley. No. 964,617; July 19; Sp. p. 3472; Gaz. vol. 156; p. 593.
Mower, Lawn-. C. W. Felker. No. 964,631; July 19; Sp. p. 3493; Gaz. vol. 156; p. 597.
Mower, Lawn-. G. Slatter. No. 965,031; July 19; Sp. p. 4402; Gaz. vol. 156; p. 735.
Mower, Lawn-. A. Hill. No. 975,617; Nov. 15; Sp. p. 3422; Gaz. vol. 160; p. 581.
Mower, Lawn-. R. E. Hedges. No. 977,092; Nov. 29; Sp. p. 6662; Gaz. vol. 160; p. 1135.
Mower, Lawn-. P. C. Petrie. No. 980,121; Dec. 27; Sp. p. 5872; Gaz. vol. 161; p. 1003.
Mower, Motor-driven lawn-. W. W. Harrison. No. 963,146; July 5; Sp. p. 311; Gaz. vol. 156; p. 43.
Mower, Motor lawn-. H. S. Mustin. No. 969,797; Sept. 13; Sp. p. 1398; Gaz. vol. 158; p. 245.
Mower reel, Lawn-. W. H. Cramer. No. 980,072; Dec. 27; Sp. p. 5737; Gaz. vol. 161; p. 986.
Mower, Vertical-lift. C. Maul. No. 952,125; Mar. 15; Sp. p. 3364; Gaz. vol. 152; p. 605.
Mower, Vine-. W. I. Hall. No. 952,009; Mar. 15; Sp. p. 3150; Gaz. vol. 152; p. 567.
Mower-wheel. J. H. Auble and H. A. Barrett. No. 970,455; Sept. 20; Sp. p. 2783; Gaz. vol. 158; p. 489.
Mower wheel, Lawn-. J. H. Auble. No. 974,848; Nov. 8; Sp. p. 1736; Gaz. vol. 160; p. 290.
Mowers, Cutting mechanism for. J. S. Lynch. No. 957,468; May 10; Sp. p. 2080; Gaz. vol. 154; p. 360.
Mowers, Grass-catcher for lawn-. F. Clemens, Jr. No. 952,308; Mar. 15; Sp. p. 3727; Gaz. vol. 152; p. 667.
Mowers, Grass-catching device for lawn-. H. Deck. No. 959,723; May 31; Sp. p. 7119; Gaz. vol. 154; p. 1209.
Mowers, Grass-elevator for horse lawn-. T. Spencer. No. 954,007; Apr. 5; Sp. p. 643; Gaz. vol. 153; p. 115.
Mowing-machine. M. G. Otis. No. 953,757; Apr. 5; Sp. p. 149; Gaz. vol. 153; p. 29.
Mowing-machine. J. A. Pura. No. 959,882; May 31; Sp. p. 7477; Gaz. vol. 154; p. 1263.
Mowing-machine. M. H. Noonan. No. 966,046; Aug. 2; Sp. p. 439; Gaz. vol. 157; p. 71.
Mowing-machine. J. P. Crosthwait. No. 970,019; Sept. 13; Sp. p. 1901; Gaz. vol. 158; p. 323.
Mowing-machine, Automobile. C. G. Delano. No. 957,660; May 10; Sp. p. 2465; Gaz. vol. 154; p. 426.
Mowing-machine beet-topping attachment. R. E. Murphy. No. 957,896; May 17; Sp. p. 2962; Gaz. vol. 154; p. 535.
Mowing-machine cutter-bar. J. H. Poole and A. D. Abbenzeller. No. 953,711; Apr. 5; Sp. p. 56; Gaz. vol. 153; p. 13.
Mowing-machine driving mechanism. A. Packer. No. 963,638; July 5; Sp. p. 1356; Gaz. vol. 156; p. 210.

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Mowing-machines, Reel-adjusting mechanism for. J. A. Beckett and G. W. Willis. No. 972,321; Oct. 11; Sp. p. 1752; Gaz. vol. 159; p. 308.
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Mud-guard. J. Blaszczyk. No. 980,051; Dec. 27; Sp. p. 5691; Gaz. vol. 161; p. 980.
Mud-guard attachment. J. A. Sauer. No. 952,144; Mar. 15; Sp. p. 3402; Gaz. vol. 152; p. 612.
Mud-guard, Telescoping. R. E. Kelly. No. 979,074; Dec. 20; Sp. p. 3568; Gaz. vol. 161; p. 624.
Muff, bag, and purse, Combination. A. S. Miller. No. 950,571; Mar. 1; Sp. p. 230; Gaz. vol. 152; p. 38.
Muffler. H. J. Cordle. No. 953,778; Apr. 5; Sp. p. 189; Gaz. vol. 153; p. 35.
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Muffler. W. O. Thomas. No. 956,785; May 3; Sp. p. 608; Gaz. vol. 154; p. 97.
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Muffler. W. J. Hewitt. No. 959,742; May 31; Sp. p. 7160; Gaz. vol. 154; p. 1215.
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Muffler. J. S. Mead. No. 963,235; July 5; Sp. p. 526; Gaz. vol. 156; p. 74.
Muffler. N. Schwartz. No. 968,199; Aug. 23; Sp. p. 5046; Gaz. vol. 157; p. 870.
Muffler. H. C. Gibson. No. 969,101; Aug. 30; Sp. p. 6929; Gaz. vol. 157; p. 1207.
Muffler. C. G. Hawley and E. K. Baker. No. 972,190; Oct. 11; Sp. p. 1481; Gaz. vol. 159; p. 264.
Muffler. J. A. Carrick. No. 980,064; Dec. 27; Sp. p. 5720; Gaz. vol. 161; p. 984.
Muffler, Ear-. C. J. Keller. No. 953,623; Mar. 29; Sp. p. 6549; Gaz. vol. 152; p. 1170.
Muffler, Smokeless. B. Dlouhý. No. 965,090; July 19; Sp. p. 4530; Gaz. vol. 156; p. 755.
Mug, Shaving-. P. Deats and T. Haas. No. 963,749; July 12; Sp. p. 1603; Gaz. vol. 156; p. 269.
Mug, Trick drinking-. R. Walther. No. 978,681; Dec. 13; Sp. p. 2739; Gaz vol. 161; p. 466.
Multiple-key lock. J. J. Murphy. No. 974,693; Nov. 1; Sp. p. 1392; Gaz. vol. 160; p. 216.
Multiplying attachment. P. M. Grandperrin. No. 969,360; Sept. 6; Sp. p. 442; Gaz. vol. 158; p. 71.
Muscles of the body and arms, Device for developing and strengthening the. R. Blakoe. No. 964,745; July 19; Sp. p. 3831; Gaz. vol. 156; p. 638.
Music and the like leaves, Apparatus for turning. W. R. Lyttleton. No. 971,204; Sept. 27; Sp. p. 4401; Gaz. vol. 158; p. 772.
Music, Automatic leaf-turner for sheet-. J. W. Poince. No. 969,494; Sept. 6; Sp. p. 726; Gaz. vol. 158; p. 115.
Music binder and carrier. F. H. Duesler. No. 957,459; May 10; Sp. p. 2063; Gaz. vol. 154; p. 358.
Music-chart. E. M. Hunter. No. 954,436; Apr. 12; Sp. p. 1556; Gaz. vol. 153; p. 287.
Music-chart, Mechanical. S. B. Turner. No. 946,291; Jan. 11; Sp. p. 2820; Gaz. vol. 150; p. 469.
Music-holder. C. G. Peterson. No. 977,397; Nov. 29; Sp. p. 7336; Gaz. vol. 160; p. 1240.
Music-instruction board, Key-controlled. A. L. Skoog. No. 972,934; Oct. 18; Sp. p. 3146; Gaz. vol. 159; p. 549.
Music-leaf turner. P. Kohn. No. 948,511; Feb. 8; Sp. p. 1542; Gaz. vol. 151; p. 272.
Music-leaf turner. F. C. Jungmann. No. 949,932; Feb. 22; Sp. p. 4534; Gaz. vol. 151; p. 809.
Music-leaf turner. A. E. Babcock. No. 950,037; Feb. 22; Sp. p. 4821; Gaz. vol. 151; p. 847.
Music-leaf turner. J. F. McGuire. No. 955,093; Apr. 12; Sp. p. 3016; Gaz. vol. 153; p. 512.
Music-leaf turner. M. and J. Schweibold. No. 960,719; June 7; Sp. p. 973; Gaz. vol. 155; p. 162.
Music-leaf turner. T. S. Grose and J. W. Hawkins. No. 963,545; July 5; Sp. p. 1167; Gaz. vol. 156; p. 178.
Music-leaf turner. A. W. Robinson. No. 966,055; Aug. 2; Sp. p. 463; Gaz. vol. 157; p. 74.
Music-leaf turner. G. H. Hancock. No. 968,470; Aug. 23; Sp. p. 5591; Gaz. vol. 157; p. 965.
Music-leaf turner. E. N. Walter. No. 969,317; Sept. 6; Sp. p. 342; Gaz. vol. 158; p. 57.
Music-leaf turner. E. Scheibner. No. 970,400; Sept. 13; Sp. p. 2662; Gaz. vol. 158; p. 450.
Music-leaf turner. A. Hoyer. No. 972,861; Oct. 18; Sp. p. 2943; Gaz. vol. 159; p. 522.
Music-leaf turner. E. Wiedemer. No. 973,831; Oct. 25; Sp. p. 5068; Gaz. vol. 159; p. 881.
Music-leaf turner. G. Regondi. No. 974,826; Nov. 8; Sp. p. 1685; Gaz. vol. 160; p. 283.
Music-leaf turner. I. J. Ponstein. No. 976,690; Nov. 22; Sp. p. 5728; Gaz. vol. 160; p. 970.
Music-leaf turner. A. I. Johnson. No. 976,806; Nov. 22; Sp. p. 5981; Gaz. vol. 160; p. 1010.
Music-leaf turner. F. G. Lindsay. No. 978,043; Dec. 6; Sp. p. 1338; Gaz. vol. 161; p. 214.
Music-leaf turner. R. A. Gibson and J. B. Sartolou. No. 979,942; Dec. 27; Sp. p. 5463; Gaz. vol. 161; p. 944.
Music-leaf turner, Automatic. A. J. Swanson. No. 970,766; Sept. 20; Sp. p. 3493; Gaz. vol. 158; p. 598.
Music or the like, Apparatus for preparing matrix-sheets for the reproduction of written. F. Dogilbert. No. 956,312; Apr. 26; Sp. p. 5702; Gaz. vol. 153; p. 993.
Music-playing instruments, Duplex duct-tracker for automatic. C. S. Burton. No. 958,721; May 24; Sp. p. 4995; Gaz. vol. 154; p. 845.
Music-playing instruments, Tracker construction for mechanical. F. C. White. No. 968,221; Aug. 23; Sp. p. 5094; Gaz. vol. 157; p. 877.
Music-playing instruments, Tracker-mouthpiece and accenting device for automatic. C. S. Burton. No. 964,389; July 12; Sp. p. 2932; Gaz. vol. 156; p. 484.
Music-playing mechanisms, Controller mechanism for automatic. G. S. Williams. No. 956,010; Apr. 26; Sp. p. 5022; Gaz. vol. 153; p. 888.
Music-rack. J. Sweeney. No. 954,358; Apr. 5; Sp. p. 1406; Gaz. vol. 153; p. 233.
Music-rack and cane, Combined folding. L. D. Goughenour. No. 956,336; Apr. 26; Sp. p. 5749; Gaz. vol. 153; p. 1000.
Music rack and support. H. L. Freeman. No. 951,273; Mar. 8; Sp. p. 1640; Gaz. vol. 152; p. 291.
Music rack, Automatic sheet-. A. C. Morand. No. 973,803; Oct. 25; Sp. p. 5011; Gaz. vol. 159; p. 871.
Music-rack, Folding. V. Simkins. No. 966,250; Aug. 2; Sp. p. 873; Gaz. vol. 157; p. 139.
Music-records, Apparatus for producing. J. J. Walker. No. 967,274; Aug. 16; Sp. p. 3086; Gaz. vol. 157; p. 534.
Music-roll actuator, Swinging. N. D. Hosley. No. 969,783; Sept. 13; Sp. p. 1374; Gaz. vol. 158; p. 241.
Music-roll for mechanical musical instruments. H. P. Ball. No. 948,806; Feb. 8; Sp. p. 2182; Gaz. vol. 151; p. 371.
Music-rolls, Adjusting device for. C. Flettner. No. 955,506; Apr. 19; Sp. p. 3901; Gaz. vol. 153; p. 685.
Music-rolls, Method of and apparatus for perforating. G. H. Davis. No. 964,403; July 12; Sp. p. 2956; Gaz. vol. 156; p. 488.
Music-rolls, Respooling device for. G. H. Davis. No. 968,136; Aug. 23; Sp. p. 4889; Gaz. vol. 157; p. 849.
Music-sheet, Perforated. F. L. Young. No. 963,108; July 5; Sp. p. 223; Gaz. vol. 156; p. 29.
Music-sheet rolls for mechanical piano-players, Automatically-adjustable spool for perforated-. H. G. Miller. No. 977,030; Nov. 29; Sp. p. 6527; Gaz. vol. 160; p. 1114.
Music-sheet spool, Perforated-. C. H. Phillips. No. 979,090; Dec. 20; Sp. p. 3608; Gaz. vol. 161; p. 630.
Music-sheets for mechanical piano-players, &c., Apparatus for producing. W. H. Grimsdale. No. 970,492; Sept. 20; Sp. p. 2873; Gaz. vol. 158; p. 502.
Music-sheets, Perforating. G. H. Davis. No. 964,404; July 12; Sp. p. 2961; Gaz. vol. 156; p. 489.
Music-sheets, Spool for. W. F. Bayer. No. 958,214; May 17; Sp. p. 3838; Gaz. vol. 154; p. 648.
Music-spool. P. Welin. No. 962,685; June 28; Sp. p. 5164; Gaz. vol. 155; p. 903.
Music-stand. J. D. Barnes. No. 959,044; May 24; Sp. p. 5704; Gaz. vol. 154; p. 958.
Music-stand. A. Wolff. No. 979,626; Dec. 27; Sp. p. 4772; Gaz. vol. 161; p. 838.
Music-stand attachment. A. B. Gruber. No. 969,365; Sept. 6; Sp. p. 456; Gaz. vol. 158; p. 74.
Music-strips, Perforating. H. P. Ball. No. 964,951; July 19; Sp. p. 4242; Gaz. vol. 156; p. 709.
Music-turner, Automatic. M. L. W. Wilson. No. 954,236; Apr. 5; Sp. p. 1156; Gaz. vol. 153; p. 193.
Music turner, Sheet-. J. O. Phillips. No. 957,370; May 10; Sp. p. 1885; Gaz. vol. 154; p. 328.
Music turner, Sheet-. T. M. Cottrell. No. 977,785; Dec. 6; Sp. p. 806; Gaz. vol. 161; p. 125.
Musical garden ornament. A. S. Jakobson. No. 951,611; Mar. 8; Sp. p. 2328; Gaz. vol. 152; p. 403.
Musical horn. G. H. White. No. 969,126; Aug. 30; Sp. p. 6994; Gaz. vol. 157; p. 1216.
Musical instrument. W. H. Dessureau. No. 959,318; May 24; Sp. p. 6267; Gaz. vol. 154; p. 1049.
Musical instrument. J. P. Hulder. No. 963,151; July 5; Sp. p. 322; Gaz. vol. 156; p. 45.
Musical instrument. M. L. Severy. No. 973,391; Oct. 18; Sp. p. 4144; Gaz. vol. 159; p. 707.
Musical-instrument attachment. C. H. Davis. No. 946,340; Jan. 11; Sp. p. 2923; Gaz. vol. 150; p. 485.
Musical-instrument attachment, Self-playing-. C. D. Haskins. No. 961,295; June 14; Sp. p. 2158; Gaz. vol. 155; p. 385.
Musical instrument, Automatic. P. Welin. No. 945,883; Jan. 11; Sp. p. 1953; Gaz. vol. 150; p. 325.
Musical instrument, Automatic. P. Welin. No. 945,887; Jan. 11; Sp. p. 1961; Gaz. vol. 150; p. 327.
Musical instrument, Automatic. J. C. Hagey. No. 955,869; Apr. 26; Sp. p. 4727; Gaz. vol. 153; p. 839.
Musical instrument, Automatic. C. A. Rohrbacher. No. 958,318; May 17; Sp. p. 4198; Gaz. vol. 154; p. 685.
Musical instrument, Automatic. C. L. Davis. No. 962,130; June 21; Sp. p. 3973; Gaz. vol. 155; p. 690.
Musical instrument, Automatic. F. W. Gunton. No. 980,151; Dec. 27; Sp. p. 5933; Gaz. vol. 161; p. 1013.
Musical instrument, Automatic pneumatic. E. W. Batten. No. 963,981; July 12; Sp. p. 2119; Gaz. vol. 156; p. 347.

Musical instrument, Coin-controlled pneumatically-operated. T. I. Shannon and F. M. Garnett. No. 962,534; June 28; Sp. p. 4852; Gaz. vol. 155; p. 853.
Musical instrument, Electrical. I. Engstrom. No. 964,503; July 19; Sp. p. 3199; Gaz. vol. 156; p. 554.
Musical-instrument finger-board. K. I. Finney. No. 967,507; Aug. 16; Sp. p. 3583; Gaz. vol. 157; p. 615.
Musical instrument, Mechanical. E. S. Votey. (Reissue.) No. 13,076; Jan. 11; Sp. p. 3431; Gaz. vol. 150; p. 550.
Musical instrument, Mechanical. R. Frömsdorf. No. 947,899; Feb. 1; Sp. p. 260; Gaz. vol. 151; p. 42.
Musical instrument, Mechanical. F. L. Young. No. 968,626; Aug. 30; Sp. p. 5934; Gaz. vol. 157; p. 1045.
Musical-instrument mouthpiece. H. E. Cook and E. P. Bullock. No. 972,823; Oct. 18; Sp. p. 2848; Gaz. vol. 159; p. 508.
Musical instrument, Pedal-keyboard. T. F. Gaynor. No. 980,149; Dec. 27; Sp. p. 5929; Gaz. vol. 161; p. 1012.
Musical-instrument pedal mechanism. P. Welin. No. 961,824; June 21; Sp. p. 3284; Gaz. vol. 155; p. 586.
Musical instrument, Percussion. H. E. Winterhoff. No. 967,477; Aug. 16; Sp. p. 3513; Gaz. vol. 157; p. 605.
Musical instrument, Pneumatic. E. de Kleist. No. 952,262; Mar. 15; Sp. p. 3627; Gaz. vol. 152; p. 652.
Musical instrument, Self-playing. B. L. Cartmell. No. 948,474; Feb. 8; Sp. p. 1460; Gaz. vol. 151; p. 259.
Musical instrument, Self-playing. L. H. Maier. No. 961,724; June 14; Sp. p. 3046; Gaz. vol. 155; p. 528.
Musical instrument, Stringed. F. L. Harmon. No. 960,317; June 7; Sp. p. 153; Gaz. vol. 155; p. 29.
Musical instrument, Stringed. P. L. Morris. No. 961,883; June 21; Sp. p. 3428; Gaz. vol. 155; p. 606.
Musical instrument, Stringed. G. D. Laurian. No. 964,660; July 19; Sp. p. 3555; Gaz. vol. 156; p. 608.
Musical instrument, Stringed. C. S. Weber. No. 968,102; Aug. 23; Sp. p. 4823; Gaz. vol. 157; p. 837.
Musical instrument, Stringed. F. Menzenhauer. No. 970,845; Sept. 20; Sp. p. 3663; Gaz. vol. 158; p. 626.
Musical instrument, Stringed. J. J. Roche. No. 976,299; Nov. 22; Sp. p. 4917; Gaz. vol. 160; p. 838.
Musical instruments and music-rolls therefor, Controlling mechanism for self-playing. T. B. Powers. (Reissue.) No. 13,124; June 28; Sp. p. 5836; Gaz. vol. 155; p. 1021.
Musical instruments, Automatic drum-beater for mechanically-operated. W. A. Brauer. No. 965,435; July 26; Sp. p. 5263; Gaz. vol. 156; p. 901.
Musical instruments, Automatic player for. P. Welin. No. 957,590; May 10; Sp. p. 2312; Gaz. vol. 154; p. 402.
Musical instruments, Automatic playing attachment for. P. Welin. No. 945,885; Jan. 11; Sp. p. 1956; Gaz. vol. 150; p. 326.
Musical instruments, Automatic winding attachment for mechanical. E. E. Welte. No. 962,871; June 28; Sp. p. 5549; Gaz. vol. 155; p. 971.
Musical instruments, Controlling-lever and fall-board for automatic. P. Welin. No. 945,886; Jan. 11; Sp. p. 1959; Gaz. vol. 150; p. 327.
Musical instruments, Duplex tracker-board for automatic. M. Clark. (Reissue.) No. 13,136; July 26; Sp. p. 6158; Gaz. vol. 156; p. 1044.
Musical instruments, Electric playing apparatus for. J. F. Kelly. No. 964,274; July 12; Sp. p. 2708; Gaz. vol. 156; p. 447.
Musical instruments, Electrical mechanical player for. J. F. White. No. 975,187; Nov. 8; Sp. p. 2519; Gaz. vol. 160; p. 407.
Musical instruments, Finger-board for. F. Consoli. No. 973,719; Oct. 25; Sp. p. 4847; Gaz. vol. 159; p. 843.
Musical instruments, Improving the tone or timbre of. M. G. Graham. No. 966,010; Aug. 2; Sp. p. 352; Gaz. vol. 157; p. 57.
Musical instruments, Keyboard for keyed. A. Schulz. No. 958,186; May 17; Sp. p. 3783; Gaz. vol. 154; p. 639.
Musical instruments or orchestrions, Tracker for automatic. A. L. Mustel. No. 971,465; Sept. 27; Sp. p. 4887; Gaz. vol. 158; p. 856.
Musical instruments, Pedal-action for. J. P. Caulfield. No. 963,420; July 5; Sp. p. 919; Gaz. vol. 156; p. 136.
Musical instruments, Pedal mechanism for. P. Welin. No. 945,882; Jan. 11; Sp. p. 1951; Gaz. vol. 150; p. 325.
Musical instruments, Pneumatic action for. W. F. Bayer. No. 977,259; Nov. 29; Sp. p. 7020; Gaz. vol. 160; p. 1194.
Musical instruments, Spool-adjusting device for. T. P. Brown. No. 978,355; Dec. 13; Sp. p. 2028; Gaz. vol. 161; p. 353.
Musical instruments, Tailpiece for stringed. G. D. Laurian. No. 970,626; Sept. 20; Sp. p. 3195; Gaz. vol. 158; p. 549.
Musical instruments, Tracker-board for automatic. P. Welin. No. 945,996; Jan. 11; Sp. p. 2203; Gaz. vol. 150; p. 366.
Musical instruments, Tracker-board for mechanical. J. O'Connor. No. 971,398; Sept. 27; Sp. p. 4770; Gaz. vol. 158; p. 834.
Musical instruments, Trip stop-action for automatic. F. A. Pilcher. No. 952,546; Mar. 22; Sp. p. 4230; Gaz. vol. 152; p. 776.
Musical instruments, Valve for pneumatic. G. S. Williams. No. 949,250; Feb. 15; Sp. p. 3072; Gaz. vol. 151; p. 544.
Musical instruments, Valve for pneumatically-controlled. P. Welin. No. 945,884; Jan. 11; Sp. p. 1954; Gaz. vol. 150; p. 326.
Musical pipe. A. V. Chevers. No. 951,801; Mar. 15; Sp. p. 2729; Gaz. vol. 152; p. 498.
Musical time-indicator. P. Simpson. No. 952,370; Mar. 15; Sp. p. 3843; Gaz. vol. 152; p. 688.
Musical wind instrument. A. Johnson. No. 963,768; July 12; Sp. p. 1635; Gaz. vol. 156; p. 275.
Mussel-dredge and separating apparatus. J. Webb. No. 978,968; Dec. 20; Sp. p. 3348; Gaz. vol. 161; p. 589.
Mustard-grinding mill. P. Oehmig. No. 957,997; May 17; Sp. p. 3257; Gaz. vol. 154; p. 572.
Mutograph. F. C. Newell. No. 976,093; Nov. 15; Sp. p. 4378; Gaz. vol. 160; p. 743.
Mutoscope. A. S. Ferguson. No. 948,272; Feb. 1; Sp. p. 1005; Gaz. vol. 151; p. 165.
Muzzle. J. H. Lipscomb. No. 950,335; Feb. 22; Sp. p. 5410; Gaz. vol. 151; p. 949.
Muzzle and calf-weaner. W. H. Lyman. No. 949,730; Feb. 15; Sp. p. 4056; Gaz. vol. 151; p. 704.
Muzzle for dogs, &c. M. J. Rexicker. No. 953,437; Mar. 29; Sp. p. 6154; Gaz. vol. 152; p. 1105.
Nail: *See* Removable nail; Wire nail.
Nail. F. A. Neider. No. 959,876; May 31; Sp. p. 7463; Gaz. vol. 154; p. 1261.
Nail. J. A. Cunningham. No. 970,423; Sept. 13; Sp. p. 2708; Gaz vol. 158; p. 457.
Nail. C. Hansen. No. 975,235; Nov. 8; Sp. p. 2620; Gaz. vol. 160; p. 423.
Nail assorting and delivering mechanism. W. C. Stewart. No. 958,037; May 17; Sp. p. 3415; Gaz. vol. 154; p. 587.
Nail assorting and delivering mechanism. W. C. Stewart. No. 958,039; May 17; Sp. p. 3430; Gaz. vol. 154; p. 588.
Nail-clipper. H. Leineweber. No. 970,067; Sept. 13; Sp. p. 2004; Gaz. vol. 158; p. 340.
Nail clipper and file, Combined. H. D. Bader. No. 967,598; Aug. 16; Sp. p. 3760; Gaz. vol. 157; p. 646.
Nail-extractor. M. Wenger. No. 952,289; Mar. 15; Sp. p. 3694; Gaz. vol. 152; p. 660.
Nail-extractor. E. Redmond. No. 968,688; Aug. 30; Sp. p. 6108; Gaz. vol. 157; p. 1068.
Nail-extractor. A. Dettmann. No. 971,835; Oct. 4; Sp. p. 675; Gaz. vol. 159; p. 119.
Nail-file. A. Dow. No. 979,398; Dec. 20; Sp. p. 4270; Gaz. vol. 161; p. 734.
Nail-holder. I. D. Lambert. No. 951,646; Mar. 8; Sp. p. 2400; Gaz. vol. 152; p. 415.
Nail-holding attachment. J. R. Morrison. No. 976,679; Nov. 22; Sp. p. 5714; Gaz. vol. 160; p. 967.
Nail machine, Wire-. J. H. Francis. No. 979,457; Dec. 27; Sp. p. 4399; Gaz. vol. 161; p. 778.
Nail-making machine. W. H. Hart and J. E. Dobson. No. 948,879; Feb. 8; Sp. p. 2313; Gaz. vol. 151; p. 394.
Nail-making machine. W. Offermanns. No. 950,755; Mar. 1; Sp. p. 633; Gaz. vol. 152; p. 101.
Nail or screw case. F. A. Billstone. No. 971,965; Oct. 4; Sp. p. 1020; Gaz. vol. 159; p. 170.
Nail or spike puller. G. W. Trogner. No. 949,337; Feb. 15; Sp. p. 3263; Gaz. vol. 151; p. 573.
Nail or tack heading apparatus. M. Brock. No. 977,506; Dec. 6; Sp. p. 181; Gaz. vol. 161; p. 30.
Nail-setter. J. C. Gates. No. 970,809; Sept. 20; Sp. p. 3595; Gaz. vol. 158; p. 614.
Nails and similar articles, Tool for pointing. G. Bitzer. No. 969,242; Sept. 6; Sp. p. 202; Gaz. vol. 158; p. 33.
Nails and the like, Machine for forming enlarged or extended heads upon. J. B. Davies and H. Bell. No. 955,635; Apr. 19; Sp. p. 4192; Gaz. vol. 153; p. 729.
Nails, Forming double-headed. F. A. Neider. No. 978,924; Dec. 20; Sp. p. 3225; Gaz. vol. 161; p. 572.
Nailing-machines, Wire-feeding mechanism for. S. M. Cutter. No. 960,278; June 7; Sp. p. 77; Gaz. vol. 155; p. 16.
Nailing or tacking apparatus, Automatic. C. P. and E. Holmes. No. 979,953; Dec. 27; Sp. p. 5480; Gaz. vol. 161; p. 947.
Nailing-strip. J. F. Leslie. No. 967,208; Aug. 16; Sp. p. 2961; Gaz. vol. 157; p. 513.
Name-holder for pews. P. F. Denning. No. 961,431; June 14; Sp. p. 2444; Gaz. vol. 155; p. 431.
Name-register. F. W. Leuthesser. No. 946,446; Jan. 11; Sp. p. 3243; Gaz. vol. 150; p. 521.
Napkin and belt for supporting the same, Sanitary. J. H. Johnson. No. 964,267; July 12; Sp. p. 2693; Gaz. vol. 156; p. 444.
Napkin-holder. H. H. Frick. No. 948,576; Feb. 8; Sp. p. 1680; Gaz. vol. 151; p. 293.
Napkin-holder. F. Dahlund. No. 952,419; Mar. 15; Sp. p. 3936; Gaz. vol. 152; p. 704.
Napkin-holder. W. A. Balke. No. 964,739; July 19; Sp. p. 3823; Gaz. vol. 156; p. 636.
Nautical instrument. C. A. McCallister. No. 972,889; Oct. 18; Sp p. 3022; Gaz. vol. 159; p. 533.
Navigator's calculating instrument. E. Hill, Jr. No. 946,043; Jan. 11; Sp. p. 2294; Gaz. vol. 150; p. 381.
Nebulizer. B. E. Baker. No. 950,738; Mar. 1; Sp. p. 600; Gaz. vol. 152; p. 94.
Necktie. H. Martin. No. 945,970; Jan. 11; Sp. p. 2146; Gaz. vol. 150; p. 357.

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Necktie. C. Reynolds. No. 949,366; Feb. 15; Sp. p. 3331; Gaz. vol. 151; p. 584.
Necktie. F. Benson. No. 952,975; Mar. 22; Sp. p. 5135; Gaz. vol. 152; p. 922.
Necktie. C. W. T. Davies. No. 963,360; July 5; Sp. p. 793; Gaz. vol. 156; p. 117.
Necktie. C. W. T. Davies. No. 964,496; July 19; Sp. p. 3174; Gaz. vol. 156; p. 551.
Necktie. A. J. Charon. No. 964,755; July 19; Sp. p. 3850; Gaz. vol. 156; p. 641.
Necktie. C. W. T. Davies. No. 965,372; July 26; Sp. p. 5123; Gaz. vol. 156; p. 879.
Necktie. H. T. Loomis. No. 967,792; Aug. 16; Sp. p. 4144; Gaz. vol. 157; p. 710.
Necktie. F. W. Lyon. No. 979,521; Dec. 27; Sp. p. 4536; Gaz. vol. 161; p. 800.
Necktie-adjusting means. E. W. Bloomfield. No. 969,594; Sept. 6; Sp. p. 959; Gaz. vol. 158; p. 151.
Necktie and collar fastening. L. J. F. Hubert. No. 976,177; Nov. 22; Sp. p. 4611; Gaz. vol. 160; p. 793.
Necktie, Braided. O. Holzhey and O. Dickhaus. No. 958,872; May 24; Sp. p. 5367; Gaz. vol. 154; p. 901.
Necktie form and retainer. P. Leeve. No. 952,823; Mar. 22; Sp. p. 4843; Gaz. vol. 152; p. 871.
Necktie-holder. L. W. Horne. No. 961,695; June 14; Sp. p. 2993; Gaz. vol. 155; p. 519.
Necktie-holder. C. Kern and H. Hershenson. No. 967,391; Aug. 16; Sp. p. 3343; Gaz. vol. 157; p. 577.
Necktie-holder. G. Demandre. No. 972,440; Oct. 11; Sp. p. 1994; Gaz. vol. 159; p. 350.
Necktie-holder. E. T. Craige. No. 973,005; Oct. 18; Sp. p. 3300; Gaz. vol. 159; p. 573.
Necktie-holder for negligée shirts. C. K. Ruebe. No. 946,275; Jan. 11; Sp. p. 2783; Gaz. vol. 150; p. 463.
Necktie-supporter. W. W. McNaughton. No. 953,281; Mar. 29; Sp. p. 5812; Gaz. vol. 152; p. 1051.
Necktie-supporter. J. B. Mayo. No. 973,871; Oct. 25; Sp. p. 5159; Gaz. vol. 159; p. 896.
Neckties, Device for preventing the displacement of. K. A. Meyer. No. 979,533; Dec. 27; Sp. p. 4560; Gaz. vol. 161; p. 805.
Neckwear. F. K. Blanchard. No. 954,017; Apr. 5; Sp. p. 661; Gaz. vol. 153; p. 118.
Needle. F. H. Schomburg. No. 945,984; Jan. 11; Sp. p. 2173; Gaz. vol. 150; p. 361.
Needle-case. J. S. Gardner. No. 947,967; Feb. 1; Sp. p. 399; Gaz. vol. 151; p. 64.
Needle-case. R. A. Hankins. No. 969,141; Aug. 30; Sp. p. 7024; Gaz. vol. 157; p. 1222.
Needle-holder. I. M. Brown. No. 945,015; Jan. 4; Sp. p. 8; Gaz. vol. 150; p. 4.
Needle, Prospector's. D. W. Jewell. No. 961,298; June 14; Sp. p. 2162; Gaz. vol. 155; p. 386.
Needle, Seine-. E. Randolph. No. 976,290; Nov. 22; Sp. p. 4885; Gaz. vol. 160; p. 835.
Needle-threader. C. L. Woolley. No. 959,676; May 31; Sp. p. 7031; Gaz. vol. 154; p. 1194.
Needle-threader. J. McKeown. No. 963,239; July 5; Sp. p. 534; Gaz. vol. 156; p. 75.
Needle, Tufting-. C. W. Sellstedt. No. 965,236; July 26; Sp. p. 4816; Gaz. vol. 156; p. 833.
Needles, Carriage for tuft-yarn. J. A. Clark. No. 970,608; Sept. 20; Sp. p. 3118; Gaz. vol. 158; p. 543.
Needles, Manufacture of. P. Bohin. No. 963,987; July 12; Sp. p. 2134; Gaz. vol. 156; p. 348.
Needling-machine. D. S. Brown. No. 976,033; Nov. 15; Sp. p. 4253; Gaz. vol. 160; p. 722.
Nest and brooder, Combined. W. H. Parker. No. 962,459; June 28; Sp. p. 4685; Gaz. vol. 155; p. 827.
Nest and feeder, Poultry. A. J. Leddell. No. 965,308; July 26; Sp. p. 4983; Gaz. vol. 156; p. 858.
Nest and perch, Combination. H. W. Watts. No. 968,101; Aug. 23; Sp. p. 4822; Gaz. vol. 157; p. 837.
Nest for poultry, Recording-. G. A. L. Argles. No. 949,610; Feb. 15; Sp. p. 3821; Gaz. vol. 151; p. 666.
Nest, Hen's. J. C. Wilkes. No. 950,419; Feb. 22; Sp. p. 5566; Gaz. vol. 151; p. 976.
Nest, Hen's. F. E. Kullander. No. 953,172; Mar. 29; Sp. p. 5579; Gaz. vol. 152; p. 1016.
Nest, Hen's. S. M. Hixson. No. 953,785; Apr. 5; Sp. p. 201; Gaz. vol. 153; p. 37.
Nest, Hen's. A. Jessup. No. 955,882; Apr. 26; Sp. p. 4766; Gaz. vol. 153; p. 843.
Nest, Hen's. S. A. Merkley, F. H. Apel, and W. A. Merkley. No. 960,985; June 7; Sp. p. 1491; Gaz. vol. 155; p. 251.
Nest, Hen's. D. J. Weeden. No. 968,906; Aug. 30; Sp. p. 6553; Gaz. vol. 157; p. 1141.
Nest, Interchangeable hen's. H. Boettcher. No. 946,323; Jan. 11; Sp. p. 2888; Gaz. vol. 150; p. 479.
Nest or filler, Egg-. L. Brasseur. No. 979,373; Dec. 20; Sp. p. 4221; Gaz. vol. 161; p. 727.
Nest, Safety-. S. J. Harrell. No. 979,294; Dec. 20; Sp. p 4082; Gaz. vol. 161; p. 702.
Nest, Trap-. F. J. Schisler. No. 950,679; Mar. 1; Sp. p. 455; Gaz. vol. 152; p. 74.
Nest, Trap-. H. E. Pennington and H. W. Raymond. No. 971,401; Sept. 27; Sp. p. 4776; Gaz. vol. 158; p. 835.
Nest, Trap-. P. H. Edwards. No. 977,606; Dec. 6; Sp. p. 437; Gaz. vol. 161; p. 64.

Net. E. E. Brown. No. 953,255; Mar. 29; Sp. p. 5764; Gaz. vol. 152; p. 1043.
Net. J. F. Masek. No. 957,618; May 10; Sp. p. 2375; Gaz. vol. 154; p. 412.
Net, Fish and fruit. J. F. Fromm. No. 956,803; May 3; Sp. p. 650; Gaz. vol. 154; p. 103.
Net, Fly-. J. D. Evans. No. 959,925; May 31; Sp. p. 7568; Gaz. vol. 154; p. 1279.
Net, Hair-. P. Weill. No. 961,471; June 14; Sp. p. 2534; Gaz. vol. 155; p. 444.
Net, Hair-. J. Baer. No. 961,476; June 14; Sp. p. 2544; Gaz. vol. 155; p. 446.
Net, Landing-. G. J. Koberstein. No. 959,555; May 31; Sp. p. 6786; Gaz. vol. 154; p. 1154.
Net-lifting device. J. W. Atwood. No. 967,485; Aug. 16; Sp. p. 3534; Gaz. vol. 157; p. 607.
Net-lifting machine, Self-clearing gill-. J. Gierke. No. 948,760; Feb. 8; Sp. p. 2095; Gaz. vol. 151; p. 355.
Net-making machine. C. Zang. No. 948,386; Feb. 8; Sp. p. 1282; Gaz. vol. 151; p. 230.
Net-making machine. R. F. Daniels. No. 979,828; Dec. 27; Sp. p. 5224; Gaz. vol. 161; p. 906.
Net, Straw-hoisting. G. Glaser. No. 980,096; Dec. 27; Sp. p. 5796; Gaz. vol. 161; p. 994.
New purin bases. M. Engelmann. No. 955,587; Apr. 19; Sp. p. 4080; Gaz. vol. 153; p. 712.
Newspaper-holder. F. J. Gimbel. No. 964,154; July 12; Sp. p. 2474; Gaz. vol. 156; p. 406.
Newspaper-holder. C. F. Koecke. No. 977,454; Dec. 6; Sp. p. 56; Gaz. vol. 161; p. 12.
Newspapers, Apparatus for associating, cutting, collecting, folding, and delivering. J. A. Boyce. No. 950,014; Feb. 22; Sp. p. 4753; Gaz. vol. 151; p. 839.
Nickel and copper from mattes, Separating. D. P. Shuler. No. 967,072; Aug. 9; Sp. p. 2676; Gaz. vol. 157; p. 438.
Nickel and copper from ores and mattes, Recovering. A. Chalas. No. 947,791; Feb. 1; Sp. p. 27; Gaz. vol. 151; p. 7.
Night-lock. C. M. Cook. No. 959,312; May 24; Sp. p. 6256; Gaz. vol. 154; p. 1047.
Night-lock. W. H. Taylor. No. 962,992; June 28; Sp. p. 5767; Gaz. vol. 155; p. 1009.
Nightgown. J. R. Jones. No. 956,102; Apr. 26; Sp. p. 5230; Gaz. vol. 153; p. 919.
Nippers and pincers. E. Jones. No. 951,076; Mar. 1; Sp. p. 1238; Gaz. vol. 152; p. 203.
Nipple-cover. C. W. Ladley. No. 976,887; Nov. 29; Sp. p. 6181; Gaz. vol. 160; p. 1064.
Nipple-holder. S. O. Johnson. No. 947,713; Jan. 25; Sp. p. 6007; Gaz. vol. 150; p. 1000.
Nipple-threading mechanism. H. W. Oster. No. 948,793; Feb. 8; Sp. p. 2152; Gaz. vol. 151; p. 366.
Nitrobenzaldehyde, Reduction products of commercial. A. Vagt. No. 961,915; June 21; Sp. p. 3479; Gaz. vol. 155; p. 616.
Nitrocellulose bodies, Making horny. V. Vender. No. 946,294; Jan. 11; Sp. p. 2826; Gaz. vol. 150; p. 470.
Nitrogen from the air, Apparatus for producing oxids of. F. I. du Pont. No. 950,703; Mar. 1; Sp. p. 521; Gaz. vol. 152; p. 82.
Nitrogen, Oxidizing atmospheric. H. Howard. No. 952,248; Mar. 15; Sp. p. 3596; Gaz. vol. 152; p. 647.
Noise-arrester. C. W. Waller. No. 968,008; Aug. 23; Sp. p. 4613; Gaz. vol. 157; p. 806.
Non-skidding device. H. P. Brown. No. 965,621; July 26; Sp. p. 5688; Gaz. vol. 156; p. 967.
Non-skidding device. G. A. Bell. No. 966,074; Aug. 2; Sp. p. 497; Gaz. vol. 157; p. 80.
Non-skidding device. L. D. Christie. No. 966,082; Aug. 2; Sp. p. 510; Gaz. vol. 157; p. 83.
Non-slipping device. J. Hurst and A. Myers. No. 968,767; Aug. 30; Sp. p. 6270; Gaz. vol. 157; p. 1094.
Noodle-cutter. F. L. Hawkins. No. 958,809; May 24; Sp. p. 5205; Gaz. vol. 154; p. 878.
Noodle-cutter. G. B. Bretz. No. 961,337; June 14; Sp. p. 2268; Gaz. vol. 155; p. 400.
Noodle-cutter. J. B. Boyer. No. 963,682; July 5; Sp. p. 1432; Gaz. vol. 156; p. 225.
Noodle-cutting device. S. M. Ohmart. No. 951,331; Mar. 8; Sp. p. 1767; Gaz. vol. 152; p. 310.
Noodles, Making. E. Chong. No. 945,222; Jan. 4; Sp. p. 448; Gaz. vol. 150; p. 74.
Nose-bag. H. Zwieger. No. 951,356; Mar. 8; Sp. p. 1818; Gaz. vol. 152; p. 319.
Nose-bag. J. A. Petro. No. 963,805; July 12; Sp. p. 1743; Gaz. vol. 156; p. 289.
Nose-bag. H. W. Curry. No. 973,175; Oct. 18; Sp. p. 3691; Gaz. vol. 159; p. 632.
Nose-bag holder. C. H. Thompson. No. 957,815; May 10; Sp. p. 2783; Gaz. vol. 154; p. 477.
Nose-guard. H. H. Gray. No. 979,288; Dec. 20; Sp. p. 4072; Gaz. vol. 161; p. 700.
Notching and slitting strips, Machine for. S. L. W. Coe and H. T. Werden. No. 964,614; July 19; Sp. p. 3464; Gaz. vol. 156; p. 592.
Note-sheet-winding apparatus. F. C. White. No. 968,220; Aug. 23; Sp. p. 5091; Gaz. vol. 157; p. 877.
Note-sheets, Expression-marking for. P. K. Van Yorx. No. 964,716; July 19; Sp. p. 3772; Gaz. vol. 156; p. 627.
Novelty device. H. Schwartz. No. 978,943; Dec. 20; Sp. p. 3273; Gaz. vol. 161; p. 580.

Nozzle. J. G. Mastin. No. 949,489; Feb. 15; Sp. p. 3586; Gaz. vol. 151; p. 625.
Nozzle. C. Vacher. No. 964,945; July 19; Sp. p. 4236; Gaz. vol. 156; p. 708.
Nozzle. C. Vacher. No. 964,946; July 19; Sp. p. 4237; Gaz. vol. 156; p. 708.
Nozzle. I. K. Beaver. No. 971,516; Oct. 4; Sp. p. 11; Gaz. vol. 159; p. 4.
Nozzle. C. S. Jones. No. 973,940; Oct. 25; Sp. p. 5296; Gaz. vol. 159; p. 919.
Nozzle. L. C. Bowers. No. 978,835; Dec. 20; Sp. p. 3038; Gaz. vol. 161; p. 540.
Nozzle. J. H. Hulings. No. 979,955; Dec. 27; Sp. p. 5486; Gaz. vol. 161; p. 948.
Nozzle, Boiler-tube-cleaner. R. W. Hamann. No. 950,694; Mar. 1; Sp. p. 496; Gaz. vol. 152; p. 79.
Nozzle-deflector. W. C. Stone. No. 955,294; Apr. 19; Sp. p. 3448; Gaz. vol. 153; p. 612.
Nozzle, Dredge-. W. A. McCauley. No. 952,928; Mar. 22; Sp. p. 5047; Gaz. vol. 152; p. 907.
Nozzle, Exhaust-. J. Player. No. 948,019; Feb. 1; Sp. p. 493; Gaz. vol. 151; p. 80.
Nozzle, Exhaust or suction. A. T. Noe. No. 955,897; Apr. 26; Sp. p. 4798; Gaz. vol. 153; p. 849.
Nozzle for filters and similar devices. O. Selg. No. 960,418; June 7; Sp. p. 365; Gaz. vol. 155; p. 62.
Nozzle for fire-fighting apparatus. M. H. Hart. No. 965,709; July 26; Sp. p. 5870; Gaz. vol. 156; p. 997.
Nozzle for steam-boilers. W. Horsley. No. 948,053; Feb. 1; Sp. p. 572; Gaz. vol. 151; p. 92.
Nozzle-holder. C. F. Mohrhoff. No. 946,147; Jan. 11; Sp. p. 2495; Gaz. vol. 150; p. 416.
Nozzle-holder. W. H. Titus. No. 954,902; Apr. 12; Sp. p. 2656; Gaz. vol. 153; p. 450.
Nozzle or sprinkler-head, Rotary distributing-. H. F. Newman. No. 974,176; Nov. 1; Sp. p. 147; Gaz. vol. 160; p. 27.
Nozzle, Spray-. L. W. Cushman. No. 962,946; June 28; Sp. p. 5677; Gaz. vol. 155; p. 994.
Nozzle, Spray-. J. Reade. No. 969,657; Sept. 6; Sp. p. 1078; Gaz. vol. 158; p. 173.
Nozzle, Spraying-. H. D. Binks. No. 960,150; May 31; Sp. p. 8066; Gaz. vol. 154; p. 1356.
Nozzle, Spraying-. C. H. Perry. No. 961,006; June 7; Sp. p. 1544; Gaz. vol. 155; p. 258.
Nozzle, Spraying-. K. L. Müller. No. 964,445; July 12; Sp. p. 3037; Gaz. vol. 156; p. 501.
Nozzle, Spraying-. H. Maasberg. No. 964,991; July 19; Sp. p. 4330; Gaz. vol. 156; p. 722.
Nozzle, Spraying-. J. Milburn. No. 977,748; Dec. 6; Sp. p. 721; Gaz. vol. 161; p. 113.
Nozzle, Steam-. J. W. Stillwell. No. 958,444; May 17; Sp. p. 4460; Gaz. vol. 154; p. 729.
Nozzle-stopper for bottles, &c. T. W. Evans. No. 972,522; Oct. 11; Sp. p. 2198; Gaz. vol. 159; p. 380.
Nozzle, Suction-. J. C. Luden. No. 964,800; July 19; Sp. p. 3949; Gaz. vol. 156; p. 656.
Number-plate support for vehicles. W. B. Hughes. No. 962,219; June 21; Sp. p. 4147; Gaz. vol. 155; p. 720.
Number-plate support for vehicles. W. B. Hughes. No. 962,220; June 21; Sp. p. 4148; Gaz. vol. 155; p. 720.
Number-plate support for vehicles. W. B. Hughes. No. 962,221; June 21; Sp. p. 4150; Gaz. vol. 155; p. 721.
Numbering device. E. A. Crosby. No. 963,120; July 5; Sp. p. 248; Gaz. vol. 156; p. 33.
Numbering-machine. S. Moe. No. 952,682; Mar. 22; Sp. p. 4531; Gaz. vol. 152; p. 824.
Numbering-machine. B. B. Conrad. No. 953,819; Apr. 5; Sp. p. 278; Gaz. vol. 153; p. 49.
Numbering-machine. W. F. C. Foster. No. 955,785; Apr. 19; Sp. p. 4514; Gaz. vol. 153; p. 780.
Numbering-machine. C. B. Smith. No. 961,035; June 7; Sp. p. 1596; Gaz. vol. 155; p. 268.
Numbering-machine. S. Hollingsworth. No. 961,444; June 14; Sp. p. 2474; Gaz. vol. 155; p. 435.
Numbering-machine. W. H. Smith. No. 965,044; July 19; Sp. p. 4438; Gaz. vol. 156; p. 739.
Numbering-machine. J. H. Reinhardt. No. 976,295; Nov. 22; Sp. p. 4893; Gaz. vol. 160; p. 836.
Numbering mechanism. E. P. Sheldon. No. 949,849; Feb. 22; Sp. p. 4326; Gaz. vol. 151; p. 779.
Nurling-tool. J. Armstrong. No. 960,769; June 7; Sp. p. 1078; Gaz. vol. 155; p. 180.
Nurling-tool. A. Kaiserman. No. 964,272; July 12; Sp. p. 2704; Gaz. vol. 156; p. 446.
Nursery-chair. J. W. Hencke. No. 952,671; Mar. 22; Sp. p. 4511; Gaz. vol. 152; p. 820.
Nursery chair and table. F. A. Linger. No. 946,942; Jan. 18; Sp. p. 4340; Gaz. vol. 150; p. 713.
Nursery-seat. M. A. W. Redmond. No. 950,758; Mar. 1; Sp. p. 639; Gaz. vol. 152; p. 102.
Nursing attachment. H. B. Cunningham. No. 949,414; Feb. 15; Sp. p. 3449; Gaz. vol. 151; p. 601.
Nut. E. E. Gamon. No. 963,042; July 5; Sp. p. 29; Gaz. vol. 156; p. 7.
Nut-adjusting machine. K. S. Beery. No. 945,680; Jan. 4; Sp. p. 1438; Gaz. vol. 150; p. 224.
Nut and bolt. W. E. Horrocks. No. 976,569; Nov. 22; Sp. p. 5507; Gaz. vol. 160; p. 930.
Nut and bolt lock. G. R. Knobeloch. No. 969,786; Sept. 13; Sp. p. 1381; Gaz. vol. 158; p. 242.
Nut, Axle-. J. B. Wismer. No. 975,189; Nov. 8; Sp. p. 2529; Gaz. vol. 160; p. 409.
Nut, Axle-. J. B. Wismer. No. 977,246; Nov. 29; Sp. p. 6996; Gaz. vol. 160; p. 1189.
Nut burring and facing machine. W. Shand. No. 959,624; May 31; Sp. p. 6913; Gaz. vol. 154; p. 1177.
Nut cracker, Edible-. H. I. Weed. No. 956,555; May 3; Sp. p. 101; Gaz. vol. 154; p. 19.
Nut-cutter. A. Loock. No. 951,016; Mar. 1; Sp. p. 1136; Gaz. vol. 152; p. 184.
Nut, Divided. G. Cartwright. No. 964,752; July 19; Sp. p. 3844; Gaz. vol. 156; p. 640.
Nut for carriage-top props. J. Winter. No. 952,856; Mar. 22; Sp. p. 4908; Gaz. vol. 152; p. 883.
Nut for spindles, Split adjusting-. F. K. Rand. No. 955,902; Apr. 26; Sp. p. 4805; Gaz. vol. 153; p. 850.
Nut, Frictional lock-. W. F. Kenney. No. 954,304; Apr. 5; Sp. p. 1299; Gaz. vol. 153; p. 215.
Nut, Hub-. W. A. Stewart. No. 965,490; July 26; Sp. p. 5372; Gaz. vol. 156; p. 919.
Nut, Jam-. C. Burns. No. 952,507; Mar. 22; Sp. p. 4135; Gaz. vol. 152; p. 761.
Nut, Jam-. R. Lewis. No. 965,202; July 26; Sp. p. 4753; Gaz. vol. 156; p. 822.
Nut-lock. H. E. Kittredge. No. 946,055; Jan. 11; Sp. p. 2317; Gaz. vol. 150; p. 385.
Nut-lock. C. W. Reinoehl and B. L. Weaver. No. 946,154; Jan. 11; Sp. p. 2513; Gaz. vol. 150; p. 419.
Nut-lock. F. Bacon. No. 946,713; Jan. 18; Sp. p. 3791; Gaz. vol. 150; p. 634.
Nut-lock. A. R. Douglass and J. F. Willett. No. 947,057; Jan. 18; Sp. p. 4552; Gaz. vol. 150; p. 751.
Nut-lock. F. Weinel. No. 947,069; Jan. 18; Sp. p. 4581; Gaz. vol. 150; p. 755.
Nut-lock. D. H. Miller. No. 947,080; Jan. 18; Sp. p. 4596; Gaz. vol. 150; p. 759.
Nut-lock. S. H. Kyle. No. 947,616; Jan. 25; Sp. p. 5831; Gaz. vol. 150; p. 968.
Nut-lock. W. M. Hord. No. 947,680; Jan. 25; Sp. p. 5946; Gaz. vol. 150; p. 989.
Nut-lock. A. A. Brown. No. 948,039; Feb. 1; Sp. p. 543; Gaz. vol. 151; p. 87.
Nut-lock. C. J. Tomlinson. No. 948,357; Feb. 8; Sp. p. 1201; Gaz. vol. 151; p. 220.
Nut-lock. S. Harvey. No. 948,855; Feb. 8; Sp. p. 2275; Gaz. vol. 151; p. 386.
Nut-lock. H. Betz. No. 949,412; Feb. 15; Sp. p. 3446; Gaz. vol. 151; p. 601.
Nut-lock. C. E. Davidson and B. I. Mauldin. No. 949,624; Feb. 15; Sp. p. 3847; Gaz. vol. 151; p. 670.
Nut-lock. C. D. Loehr. No. 949,741; Feb. 15; Sp. p. 4086; Gaz. vol. 151; p. 708.
Nut-lock. R. D. Stevenson. No. 950,123; Feb. 22; Sp. p. 4979; Gaz. vol. 151; p. 875.
Nut-lock. C. C. Blossom. No. 950,629; Mar. 1; Sp. p. 354; Gaz. vol. 152; p. 58.
Nut-lock. R. Keegan. No. 951,078; Mar. 1; Sp. p. 1245; Gaz. vol. 152; p. 204.
Nut-lock. F. Bushey. No. 951,414; Mar. 8; Sp. p. 1948; Gaz. vol. 152; p. 338.
Nut-lock. R. Center. No. 951,800; Mar. 15; Sp. p. 2728; Gaz. vol. 152; p. 498.
Nut-lock. G. O. Steckman and I. V. Troutman. No. 952,283; Mar. 15; Sp. p. 3685; Gaz. vol. 152; p. 659.
Nut-lock. H. B. and J. C. Febiger, Jr. No. 952,425; Mar. 15; Sp. p. 3946; Gaz. vol. 152; p. 706.
Nut-lock. C. B. Johnson and H. H. Smith. No. 952,810; Mar. 22; Sp. p. 4821; Gaz. vol. 152; p. 867.
Nut-lock. P. L. Manlet. No. 952,917; Mar. 22; Sp. p. 5023; Gaz. vol. 152; p. 903.
Nut-lock. J. R. Perkins. No. 952,942; Mar. 22; Sp. p. 5076; Gaz. vol. 152; p. 912.
Nut-lock. C. W. Peiffer. No. 953,545; Mar. 29; Sp. p. 6386; Gaz. vol. 152; p. 1144.
Nut-lock. A. A. and J. F. Darby. No. 955,054; Apr. 12; Sp. p. 2948; Gaz. vol. 153; p. 499.
Nut-lock. R. A. Bradshaw. No. 955,577; Apr. 19; Sp. p. 4037; Gaz. vol. 153; p. 708.
Nut-lock. G. J. Forrey. No. 955,784; Apr. 19; Sp. p. 4513; Gaz. vol. 153; p. 779.
Nut-lock. R. J. Gray. No. 955,791; Apr. 19; Sp. p. 4528; Gaz. vol. 153; p. 782.
Nut-lock. L. D. Frenot. No. 957,504; May 10; Sp. p. 2156; Gaz. vol. 154; p. 373.
Nut-lock. H. Robinson. No. 957,576; May 10; Sp. p. 2294; Gaz. vol. 154; p. 397.
Nut-lock. C. F. Clawson. No. 957,746; May 10; Sp. p. 2641; Gaz. vol. 154; p. 455.
Nut-lock. H. J. Bond. No. 957,931; May 17; Sp. p. 3051; Gaz. vol. 154; p. 548.
Nut-lock. J. B. Watson. No. 959,662; May 31; Sp. p. 6989; Gaz. vol. 154; p. 1190.
Nut-lock. J. A. Rankin. No. 959,964; May 31; Sp. p. 7666; Gaz. vol. 154; p. 1293.
Nut-lock. C. D. Russell. No. 960,040; May 31; Sp. p. 7866; Gaz. vol. 154; p. 1321.
Nut-lock. G. F. Dobbs. No. 960,284; June 7; Sp. p. 88; Gaz. vol. 155; p. 18.
Nut-lock. J. S. Lafleur. No. 960,349; June 7; Sp. p. 232; Gaz. vol. 155; p. 39.

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Nut-lock. N. J. Rogers. No. 960,405; June 7; Sp. p. 341; Gaz. vol. 155; p. 57.
Nut-lock. F. R. Cochran. No. 960,507; June 7; Sp. p. 543; Gaz. vol. 155; p. 89.
Nut-lock. J. F. Nicholson. No. 960,999; June 7; Sp. p. 1533; Gaz. vol. 155; p. 256.
Nut-lock. B. S. Valle. No. 961,049; June 7; Sp. p. 1627; Gaz. vol. 155; p. 272.
Nut-lock. J. C. Austin. No. 961,063; June 7; Sp. p. 1658; Gaz. vol. 155; p. 277.
Nut-lock. J. A. Posey. No. 961,371; June 14; Sp. p. 2329; Gaz. vol. 155; p. 411.
Nut-lock. L. L. Swenson. No. 961,819; June 21; Sp. p. 3277; Gaz. vol. 155; p. 584.
Nut-lock. L. B. Crouch. No. 962,321; June 21; Sp. p. 4372; Gaz. vol. 155; p. 754.
Nut-lock. E. A. Hemsteger. No. 962,347; June 21; Sp. p. 4428; Gaz. vol. 155; p. 763.
Nut-lock. W. T. Payne. No. 962,582; June 28; Sp. p. 4964; Gaz. vol. 155; p. 869.
Nut-lock. B. D. Kemp. No. 962,642; June 28; Sp. p. 5081; Gaz. vol. 155; p. 888.
Nut-lock. T. J. Brophy. No. 963,683; July 5; Sp. p. 1434; Gaz. vol. 156; p. 225.
Nut-lock. G. F. Seddon. No. 964,062; July 12; Sp. p. 2282; Gaz. vol. 156; p. 375.
Nut-lock. O. C. Roedler. No. 964,813; July 19; Sp. p. 3972; Gaz. vol. 156; p. 660.
Nut-lock. C. B. Burrows. No. 964,849; July 19; Sp. p. 4045; Gaz. vol. 156; p. 673.
Nut-lock. T. J. Davis. No. 965,445; July 26; Sp. p. 5285; Gaz. vol. 156; p. 904.
Nut-lock. T. J. Jones. No. 965,633; July 26; Sp. p. 5714; Gaz. vol. 156; p. 971.
Nut-lock. C. Ewing. No. 965,885; Aug. 2; Sp. p. 72; Gaz. vol. 157; p. 14.
Nut-lock. W. R. Gardner. No. 966,003; Aug. 2; Sp. p. 339; Gaz. vol. 157; p. 55.
Nut-lock. W. R. Gardner. No. 966,004; Aug. 2; Sp. p. 340; Gaz. vol. 157; p. 55.
Nut-lock. J. K. Greer. No. 967,367; Aug. 16; Sp. p. 3280; Gaz. vol. 157; p. 568.
Nut-lock. H. L. Reed. No. 968,078; Aug. 23; Sp. p. 4771; Gaz. vol. 157; p. 830.
Nut-lock. B. D. Lodge. No. 968,171; Aug. 23; Sp. p. 4995; Gaz. vol. 157; p. 861.
Nut-lock. R. M. Rager. No. 968,979; Aug. 30; Sp. p. 6687; Gaz. vol. 157; p. 1164.
Nut-lock. I. Shafer. No. 968,991; Aug. 30; Sp. p. 6711; Gaz. vol. 157; p. 1168.
Nut, Lock-. M. J. Duffy. No. 969,092; Aug. 30; Sp. p. 6914; Gaz. vol. 157; p. 1204.
Nut-lock. T. E. Stockford. No. 969,306; Sept. 6; Sp. p. 322; Gaz. vol. 158; p. 53.
Nut-lock. A. H. Partridge. No. 969,397; Sept. 6; Sp. p. 529; Gaz. vol. 158; p. 84.
Nut-lock. J. Pillig. No. 969,404; Sept. 6; Sp. p. 540; Gaz. vol. 158; p. 86.
Nut-lock. W. A. Wilt. No. 969,434; Sept. 6; Sp. p. 603; Gaz. vol. 158; p. 96.
Nut-lock. P. P. Jargick. No. 969,537; Sept. 6; Sp. p. 826; Gaz. vol. 158; p. 130.
Nut-lock. A. M. Lance. No. 969,543; Sept. 6; Sp. p. 846; Gaz. vol. 158; p. 133.
Nut-lock. F. E. Lindhorst. No. 969,548; Sept. 6; Sp. p. 856; Gaz. vol. 158; p. 135.
Nut-lock. J. A. Poirier. No. 969,655; Sept. 6; Sp. p. 1076; Gaz. vol. 158; p. 172.
Nut-lock. P. R. Hinkle. No. 969,693; Sept. 6; Sp. p. 1142; Gaz. vol. 158; p. 184.
Nut-lock. M. Omalia. No. 970,101; Sept. 13; Sp. p. 2062; Gaz. vol. 158; p. 350.
Nut-lock. O. H. P. G. Spencer. No. 970,274; Sept. 13; Sp. p. 2428; Gaz. vol. 158; p. 409.
Nut-lock. D. Johnson. No. 970,505; Sept. 20; Sp. p. 2902; Gaz. vol. 158; p. 507.
Nut-lock. A. B. Cornelius and D. C. Dean. No. 971,023; Sept. 27; Sp. p. 4002; Gaz. vol. 158; p. 711.
Nut-lock. E. Schnelle. No. 971,150; Sept. 27; Sp. p. 4278; Gaz. vol. 158; p. 753.
Nut-lock. A. Le Blanc. No. 971,451; Sept. 27; Sp. p. 4862; Gaz. vol. 158; p. 852.
Nut-lock. J. Mills. No. 971,549; Oct. 4; Sp. p. 84; Gaz. vol. 159; p. 16.
Nut-lock. C. C. Rankin. No. 971,637; Oct. 4; Sp. p. 269; Gaz. vol. 159; p. 48.
Nut-lock. J. H. Harvey. No. 971,675; Oct. 4; Sp. p. 348; Gaz. vol. 159; p. 61.
Nut-lock. W. J. Murphy. No. 971,775; Oct. 4; Sp. p. 554; Gaz. vol. 159; p. 97.
Nut-lock. C. Pfister. No. 971,784; Oct. 4; Sp. p. 574; Gaz. vol. 159; p. 100.
Nut-lock. D. S. Paterson. No. 972,086; Oct. 4; Sp. p. 1245; Gaz. vol. 159; p. 211.
Nut-lock. A. B. Macklin and H. J. Waddie. No. 972,460; Oct. 11; Sp. p. 2038; Gaz. vol. 159; p. 357.
Nut-lock. S. W. Wilt. No. 972,669; Oct. 11; Sp. p. 2525; Gaz. vol. 159; p. 430.
Nut-lock. L. J. Maloy. No. 972,702; Oct. 11; Sp. p. 2585; Gaz. vol. 159; p. 441.
Nut-lock. W. Fifield. No. 972,758; Oct. 11; Sp. p. 2709; Gaz. vol. 159; p. 461.
Nut-lock. J. Arrenbrecht. No. 972,796; Oct. 18; Sp. p. 2789; Gaz. vol. 159; p. 498.
Nut-lock. J. E. Robinson. No. 972,924; Oct. 18; Sp. p. 3123; Gaz. vol. 159; p. 546.
Nut-lock. J. K. Wedgworth. No. 972,960; Oct. 18; Sp. p. 3206; Gaz. vol. 159; p. 557.
Nut-lock. J. B. Wismer. No. 972,968; Oct. 18; Sp. p. 3224; Gaz. vol. 159; p. 561.
Nut-lock. F. G. Rank. No. 973,460; Oct. 18; Sp. p. 4283; Gaz. vol. 159; p. 730.
Nut-lock. N. D. Munn. No. 973,544; Oct. 25; Sp. p. 4473; Gaz. vol. 159; p. 781.
Nut-lock. C. H. Johnson. No. 973,665; Oct. 25; Sp. p. 4743; Gaz. vol. 159; p. 824.
Nut-lock. R. W. Bridgman. No. 973,853; Oct. 25; Sp. p. 5115; Gaz. vol. 159; p. 888.
Nut-lock. A. Kesberger. No. 974,073; Oct. 25; Sp. p. 5570; Gaz. vol. 159; p. 965.
Nut-lock. R. L. Armstead. No. 974,107; Nov. 1; Sp. p. 1; Gaz. vol. 160; p. 3.
Nut-lock. E. V. Brister. No. 974,352; Nov. 1; Sp. p. 623; Gaz. vol. 160; p. 94.
Nut-lock. J. Burgert and R. Franke. No. 974,468; Nov. 1; Sp. p. 904; Gaz. vol. 160; p. 133.
Nut-lock. J. Burkhart. No. 974,641; Nov. 1; Sp. p. 1284; Gaz. vol. 160; p. 197.
Nut-lock. C. Glaum. No. 974,786; Nov. 8; Sp. p. 1607; Gaz. vol. 160; p. 270.
Nut-lock. E. W. Taylor. No. 974,842; Nov. 8; Sp. p. 1719; Gaz. vol. 160; p. 288.
Nut-lock. J. R. Armstrong. No. 975,011; Nov. 8; Sp. p. 2128; Gaz. vol. 160; p. 347.
Nut-lock. J. R. Armstrong. No. 975,012; Nov. 8; Sp. p. 2130; Gaz. vol. 160; p. 347.
Nut-lock. L. Blessing and A. Johns. No. 975,115; Nov. 8; Sp. p. 2353; Gaz. vol. 160; p. 383.
Nut-lock. T. F. A. Maher. No. 975,145; Nov. 8; Sp. p. 2417; Gaz. vol. 160; p. 392.
Nut-lock. J. V. Sohn. No. 975,171; Nov. 8; Sp. p. 2483; Gaz. vol. 160; p. 401.
Nut-lock. J. H. Sutherland. No. 975,177; Nov. 8; Sp. p. 2496; Gaz. vol. 160; p. 404.
Nut-lock. N. Little. No. 975,545; Nov. 15; Sp. p. 3281; Gaz. vol. 160; p. 556.
Nut-lock. R. Cooper. No. 975,605; Nov. 15; Sp. p. 3396; Gaz. vol. 160; p. 577.
Nut-lock. I. L. Miller. No. 975,709; Nov. 15; Sp. p. 3624; Gaz. vol. 160; p. 611.
Nut-lock. F. H. Nett. No. 975,985; Nov. 15; Sp. p. 4168; Gaz. vol. 160; p. 705.
Nut-lock. D. W. Lovett. No. 976,584; Nov. 22; Sp. p. 5537; Gaz. vol. 160; p. 935.
Nut-lock. W. C. Schumpert. No. 976,701; Nov. 22; Sp. p. 5752; Gaz. vol. 160; p. 974.
Nut-lock. H. A. Luck. No. 976,890; Nov. 29; Sp. p. 6186; Gaz. vol. 160; p. 1065.
Nut-lock. O. Salisbury. No. 976,928; Nov. 29; Sp. p. 6280; Gaz. vol. 160; p. 1078.
Nut-lock. J. A. Schmutz. No. 977,479; Dec. 6; Sp. p. 115; Gaz. vol. 161; p. 20.
Nut-lock. J. B. Brown. No. 977,507; Dec. 6; Sp. p. 183; Gaz. vol. 161; p. 30.
Nut-lock. F. Hardy. No. 978,021; Dec. 6; Sp. p. 1292; Gaz. vol. 161; p. 207.
Nut-lock. J. F. Speck. No. 978,499; Dec. 13; Sp. p. 2339; Gaz. vol. 161; p. 404.
Nut-lock. F. Clay. No. 978,698; Dec. 13; Sp. p. 2766; Gaz. vol. 161; p. 472.
Nut-lock. E. L. Libby and G. B. Davis. No. 979,177; Dec. 20; Sp. p. 3836; Gaz. vol. 161; p. 663.
Nut-lock. O. E. Moore. No. 979,538; Dec. 27; Sp. p. 4573; Gaz. vol. 161; p. 806.
Nut-lock. O. A. Norlund. No. 979,545; Dec. 27; Sp. p. 4586; Gaz. vol. 161; p. 808.
Nut-lock. L. K. Watrous. No. 980,034; Dec. 27; Sp. p. 5657; Gaz. vol. 161; p. 975.
Nut, Lock-. M. A. Shifler. No. 953,644; Mar. 29; Sp. p. 6589; Gaz. vol. 152; p. 1177.
Nut, Lock-. P. A. Alt. No. 954,010; Apr. 5; Sp. p. 646; Gaz. vol. 153; p. 116.
Nut, Lock-. S. G. Meeker. No. 961,249; June 14; Sp. p. 2042; Gaz. vol. 155; p. 368.
Nut, Lock-. N. F. Chamberlin. No. 976,847; Nov. 29; Sp. p. 6096; Gaz. vol. 160; p. 1049.
Nut, Lock. G. S. Dunkle and M. M. Tawney. No. 973,640; Oct. 25; Sp. p. 4687; Gaz. vol. 159; p. 814.
Nut, Lock. C. A. Kuntzsch. No. 973,673; Oct. 25; Sp. p. 4756; Gaz. vol. 159; p. 826.
Nut-lock and screw-socket for well-drilling machines. A. G. Martin. No. 957,429; May 10; Sp. p. 2012; Gaz. vol. 154; p. 348.
Nut-lock and tightening device. J. G. Wolfe. No. 975,594; Nov. 15; Sp. p. 3374; Gaz. vol. 160; p. 573.
Nut-lock and washer, Combined. J. F. McGee. No. 966,945; Aug. 9; Sp. p. 2400; Gaz. vol. 157; p. 394.
Nut-lock for rail-joints. J. J. O'Donnell. No. 948,823; Feb. 8; Sp. p. 2219; Gaz. vol. 151; p. 376.

Nut-lock, Threadless. G. W. Bacon. No. 969,325; Sept. 6; Sp. p. 365; Gaz. vol. 158; p. 60.
Nut-locking device. C. W. Levalley. No. 967,790; Aug. 16; Sp. p. 4142; Gaz. vol. 157; p. 710.
Nut-locking device. E. L. J. Schaffelke. No. 975,642; Nov. 15; Sp. p. 3480; Gaz. vol. 160; p. 590.
Nut-locking device for rail-joints. A. D. Simpson. No. 951,291; Mar. 8; Sp. p. 1676; Gaz. vol. 152; p. 297.
Nut-locking tool. R. A. Clark. No. 964,393; July 12; Sp. p. 2940; Gaz. vol. 156; p. 486.
Nut-locking tool. R. A. Clark. No. 975,677; Nov. 15; Sp. p. 3572; Gaz. vol. 160; p. 601.
Nut-making machine. J. S. Hortman. No. 977,011; Nov. 29; Sp. p. 6492; Gaz. vol. 160; p. 1107.
Nut or clamp. J. L. Bernard. No. 968,112; Aug. 23; Sp. p. 4843; Gaz. vol. 157; p. 841.
Nut, Self-locking. M. Jacobs. No. 959,222; May 24; Sp. p. 6082; Gaz. vol. 154; p. 1017.
Nut, Self-locking. E. R. Hibbard. No. 960,090; May 31; Sp. p. 7953; Gaz. vol. 154; p. 1336.
Nut-shaving machine. M. J. McFadden and C. C. Hiers. No. 962,239; June 21; Sp. p. 4183; Gaz. vol. 155; p. 727.
Nut-splitting and bolt-nipping tool. J. Whisler. No. 962,483; June 28; Sp. p. 4738; Gaz. vol. 155; p. 835.
Nut, Spring-. W. C. Schoelkopf. No. 956,185; Apr. 26; Sp. p. 5431; Gaz. vol. 153; p. 951.
Nut-tapping machine. J. Boma. No. 947,961; Feb. 1; Sp. p. 380; Gaz. vol. 151; p. 62.
Nut-tapping machine. B. F. Paist. No. 952,937; Mar. 22; Sp. p. 5064; Gaz. vol. 152; p. 910.
Nut-tapping machine. R. H. Smith. No. 968,889; Aug. 30; Sp. p. 6511; Gaz. vol. 157; p. 1134.
Nut, Top-prop. H. Higgin. No. 949,897; Feb. 22; Sp. p. 4464; Gaz. vol. 151; p. 798.
Nut, Wagon-. G. Lochhead. No. 958,262; May 17; Sp. p. 3941; Gaz. vol. 154; p. 664.
Nut washers, Making lock-. J. E. Wilson. No. 949,871; Feb. 22; Sp. p. 4399; Gaz. vol. 151; p. 788.
Nuts, Making self-locking. E. R. Hibbard. No. 958,810; May 24; Sp. p. 5206; Gaz. vol. 154; p. 878.
Nuts, Manufacturing thumb-. R. H. Smith. No. 948,616; Feb. 8; Sp. p. 1777; Gaz. vol. 151; p. 305.
Nutcracker. S. C. Peckham. No. 947,932; Feb. 1; Sp. p. 313; Gaz. vol. 151; p. 52.
Nutcracker. A. Huberth. No. 964,259; July 12; Sp. p. 2676; Gaz. vol. 156; p. 441.
Nutcracker. F. W. Fort and H. T. Cruger. No. 964,414; July 12; Sp. p. 2980; Gaz. vol. 156; p. 492.
Oar. J. Pieritz. No. 973,067; Oct. 18; Sp. p. 3434; Gaz. vol. 159; p. 595.
Oar, Bow-facing self-feathering. J. H. Stewart. No. 951,464; Mar. 8; Sp. p. 2048; Gaz. vol. 152; p. 355.
Oar-lock, Adjustable. E. E. Matson. No. 958,704; May 17; Sp. p. 4954; Gaz. vol. 154; p. 814.
Oar-lock, Safety. E. Z. Griggs. No. 951,685; Mar. 8; Sp. p. 2474; Gaz. vol. 152; p. 429.
Obstetrical appliance. J. D. Parrott. No. 964,309; July 12; Sp. p. 2782; Gaz. vol. 156; p. 459.
Obstetrical instrument, Extension. L. Goshorn. No. 962,952; June 28; Sp. p. 5685; Gaz. vol. 155; p. 996.
Odometer. J. J. Stone. No. 966,263; Aug. 2; Sp. p. 893; Gaz. vol. 157; p. 142.
Offal-bag for horses and the like. E. B. Gilpin. No. 962,211; June 21; Sp. p. 4133; Gaz. vol. 155; p. 717.
Office equipment. F. Stevenson. No. 948,531; Feb. 8; Sp. p. 1580; Gaz. vol. 151; p. 279.
Offset-preventing device. H. A. W. Wood. No. 976,022; Nov. 15; Sp. p. 4237; Gaz. vol. 160; p. 718.
Oil and gas burner. C. Donaldson. No. 970,023; Sept. 13; Sp. p. 1908; Gaz. vol. 158; p. 324.
Oil and gas mixtures, Combustion of. H. Maxim. No. 977,208; Nov. 29; Sp. p. 6925; Gaz. vol. 160; p. 1176.
Oil and water elevator. T. H. McDonald. No. 970,093; Sept. 13; Sp. p. 2048; Gaz. vol. 158; p. 348.
Oil, Apparatus for saturating the ground with. J. E. Ward. No. 962,728; June 28; Sp. p. 5270; Gaz. vol. 155; p. 919.
Oil brazing-burner. R. D. Conrad. No. 955,946; Apr. 26; Sp. p. 4886; Gaz. vol. 153; p. 864.
Oil break-switch. H. J. Hunsicker. No. 977,193; Nov. 29; Sp. p. 6898; Gaz. vol. 160; p. 1171.
Oil-burner. H. B. Stilz. No. 945,873; Jan. 11; Sp. p. 1935; Gaz. vol. 150; p. 322.
Oil-burner. H. Duke. No. 945,922; Jan. 11; Sp. p. 2045; Gaz. vol. 150; p. 340.
Oil-burner. J. A. Mahr. No. 945,967; Jan. 11; Sp. p. 2142; Gaz. vol. 150; p. 356.
Oil-burner. G. D. Will. No. 947,363; Jan. 25; Sp. p. 5248; Gaz. vol. 150; p. 884.
Oil-burner. M. D. Mahanay and J. D. Price. No. 947,735; Jan. 25; Sp. p. 6043; Gaz. vol. 150; p. 1007.
Oil-burner. W. H. Creswell. No. 948,921; Feb. 8; Sp. p. 2397; Gaz. vol. 151; p. 408.
Oil-burner. J. H. Heriff. No. 949,073; Feb. 15; Sp. p. 2726; Gaz. vol. 151; p. 485.
Oil-burner. M. W. Cowan and D. Felten. No. 949,648; Feb. 15; Sp. p. 3893; Gaz. vol. 151; p. 678.
Oil-burner. H. F. Russen. No. 949,913; Feb. 22; Sp. p. 4497; Gaz. vol. 151; p. 803.
Oil-burner. R. W. Cane. No. 950,041; Feb. 22; Sp. p. 4829; Gaz. vol. 151; p. 849.
Oil-burner. A. E. Hauck. No. 951,394; Mar. 8; Sp. p. 1903; Gaz. vol. 152; p. 331.
Oil-burner. W. R. Jeavons. No. 951,612; Mar. 8; Sp. p. 2329; Gaz. vol. 152; p. 404.
Oil-burner. J. D. Pace. No. 952,348; Mar. 15; Sp. p. 3803; Gaz. vol. 152; p. 680.
Oil-burner. E. N. Shaw. No. 954,652; Apr. 12; Sp. p. 2055; Gaz. vol. 153; p. 361.
Oil-burner. J. E. Walling and A. Olson. No. 955,727; Apr. 19; Sp. p. 4408; Gaz. vol. 153; p. 760.
Oil-burner. H. M. Daggett. No. 956,629; May 3; Sp. p. 261; Gaz. vol. 154; p. 44.
Oil-burner. V. F. Lässoe. No. 957,614; May 10; Sp. p. 2357; Gaz. vol. 154; p. 410.
Oil-burner. C. W. Sievert. No. 958,330; May 17; Sp. p. 4231; Gaz. vol. 154; p. 690.
Oil-burner. T. W. Hunter. No. 959,347; May 24; Sp. p. 6334; Gaz. vol. 154; p. 1059.
Oil-burner. A. H. Light. No. 959,363; May 24; Sp. p. 6359; Gaz. vol. 154; p. 1064.
Oil-burner. A. H. Light. No. 959,364; May 24; Sp. p. 6363; Gaz. vol. 154; p. 1064.
Oil-burner. R. A. Bright. No. 960,491; June 7; Sp. p. 506; Gaz. vol. 155; p. 84.
Oil-burner. J. C. Banks. No. 961,386; June 14; Sp. p. 2355; Gaz. vol. 155; p. 416.
Oil-burner. H. R. Green. No. 962,212; June 21; Sp. p. 4134; Gaz. vol. 155; p. 718.
Oil-burner. W. C. Blackmond and G. E. Stoy. No. 962,301; June 21; Sp. p. 4329; Gaz. vol. 155; p. 747.
Oil-burner. R. C. Casad. No. 962,695; June 28; Sp. p. 5200; Gaz. vol. 155; p. 907.
Oil-burner. A. H. Light. No. 965,719; July 26; Sp. p. 5889; Gaz. vol. 156; p. 1000.
Oil-burner. W. E. Weathers. No. 965,775; July 26; Sp. p. 6003; Gaz. vol. 156; p. 1020.
Oil-burner. A. J. Garloff. No. 966,899; Aug. 9; Sp. p. 2316; Gaz. vol. 157; p. 379.
Oil-burner. B. F. McMahon. No. 967,037; Aug. 9; Sp. p. 2603; Gaz. vol. 157; p. 427.
Oil-burner. H. L. Wadley. No. 967,089; Aug. 9; Sp. p. 2705; Gaz. vol. 157; p. 444.
Oil-burner. C. D. Wright. No. 967,595; Aug. 16; Sp. p. 3753; Gaz. vol. 157; p. 645.
Oil-burner. G. F. Moody. No. 967,653; Aug. 16; Sp. p. 3861; Gaz. vol. 157; p. 663.
Oil-burner. C. C. Wilson. No. 968,825; Aug. 30; Sp. p. 6377; Gaz. vol. 157; p. 1112.
Oil-burner. C. W. Mitchell. No. 969,647; Sept. 6; Sp. p. 1053; Gaz. vol. 158; p. 169.
Oil-burner. M. J. and W. L. Wright. No. 970,156; Sept. 13; Sp. p. 2158; Gaz. vol. 158; p. 368.
Oil-burner. W. H. Bradley. No. 970,300; Sept. 13; Sp. p. 2478; Gaz. vol. 158; p. 417.
Oil-burner. R. J. Wheeler and H. R. Neil. No. 974,324; Nov. 1; Sp. p. 570; Gaz. vol. 160; p. 83.
Oil-burner. A. H. Forstner. No. 974,652; Nov. 1; Sp. p. 1309; Gaz. vol. 160; p. 202.
Oil-burner. J. M. Howze. No. 975,244; Nov. 8; Sp. p. 2646; Gaz. vol. 160; p. 427.
Oil-burner. E. W. Tucker. No. 975,482; Nov. 15; Sp. p. 3125; Gaz. vol. 160; p. 534.
Oil-burner. W. A. Stephens. No. 976,105; Nov. 15; Sp. p. 4414; Gaz. vol. 160; p. 748.
Oil-burner. P. G. Hubert. No. 976,367; Nov. 22; Sp. p. 5059; Gaz. vol. 160; p. 859.
Oil-burner. J. R. Pring. No. 978,780; Dec. 13; Sp. p. 2944; Gaz. vol. 161; p. 498.
Oil-burner and draft appliance. F. A. Stevens. No. 968,281; Aug. 23; Sp. p. 5224; Gaz. vol. 157; p. 899.
Oil burner, Crude-. R. A. Bright. No. 946,955; Jan. 18; Sp. p. 4364; Gaz. vol. 150; p. 717.
Oil burner, Crude-. J. B. Brennan. No. 947,293; Jan. 25; Sp. p. 5072; Gaz. vol. 150; p. 857.
Oil burner, Crude-. F. D. Stalford. No. 949,133; Feb. 15; Sp. p. 2856; Gaz. vol. 151; p. 505.
Oil burner, Crude-. F. W. Lanoix. No. 950,450; Feb. 22; Sp. p. 5619; Gaz. vol. 151; p. 985.
Oil burner, Crude-. J. A. Brabham. No. 951,722; Mar. 8; Sp. p. 2528; Gaz. vol. 152; p. 440.
Oil burner, Crude-. M. W. Gottschall. No. 953,380; Mar. 29; Sp. p. 6037; Gaz. vol. 152; p. 1085.
Oil burner, Crude-. R. H. Brooks. No. 953,511; Mar. 29; Sp. p. 6316; Gaz. vol. 152; p. 1132.
Oil burner, Crude-. A. J. Hennessey. No. 954,959; Apr. 12; Sp. p. 2768; Gaz. vol. 153; p. 468.
Oil burner, Crude-. L. Fetty. No. 956,695; May 3; Sp. p. 430; Gaz. vol. 154; p. 68.
Oil burner, Crude-. C. A. Japhet. No. 957,063; May 3; Sp. p. 1215; Gaz. vol. 154; p. 192.
Oil burner, Crude-. R. E. Bass. No. 959,288; May 24; Sp. p. 6214; Gaz. vol. 154; p. 1038.
Oil burner, Crude-. J. A. J. Latil. No. 960,563; June 7; Sp. p. 667; Gaz. vol. 155; p. 109.
Oil burner, Crude-. C. Shaeffer. No. 961,030; June 7; Sp. p. 1590; Gaz. vol. 155; p. 266.
Oil burner, Crude-. R. C. Reed. No. 961,797; June 21; Sp. p. 3210; Gaz. vol. 155; p. 576.
Oil burner, Crude-. E. F. Stanton. No. 964,457; July 12; Sp. p. 3072; Gaz. vol. 156; p. 505.

Alphabetical list of inventions—Continued.

Oil burner, Crude-. O. Kirschen. No. 965,305; July 26; Sp. p. 4976; Gaz. vol. 156; p. 856.
Oil burner, Crude-. J. A. McCoach. No. 965,831; July 26; Sp. p. 6127; Gaz. vol. 156; p. 1039.
Oil burner, Crude-. E. J. Owin. No. 970,349; Sept. 13; Sp. p. 2566; Gaz. vol. 158; p. 433.
Oil burner, Crude-. W. L. Lubbock and S. Hamblen. No. 970,521; Sept. 20; Sp. p. 2939; Gaz. vol. 158; p. 513.
Oil burner, Crude-. W. D. Patton. No. 972,401; Oct. 11; Sp. p. 1918; Gaz. vol. 159; p. 337.
Oil burner, Crude-. L. O. Hudson. No. 974,795; Nov. 8; Sp. p. 1618; Gaz. vol. 160; p. 272.
Oil burner, Crude-. G. C. Yale. No. 975,740; Nov. 15; Sp. p. 3691; Gaz. vol. 160; p. 622.
Oil burner, Crude-. E. G. L. Gregson. No. 976,358; Nov. 22; Sp. p. 5048; Gaz. vol. 160; p. 857.
Oil burner, Crude-. S. McNabb. No. 976,482; Nov. 22; Sp. p. 5316; Gaz. vol. 160; p. 901.
Oil burner, Crude-. E. A. Wales. No. 978,797; Dec. 13; Sp. p. 2971; Gaz. vol. 161; p. 503.
Oil burner, Crude-. A. Chapman. No. 979,259; Dec. 20; Sp. p. 4018; Gaz. vol. 161; p. 691.
Oil burner, Fuel-. A. W. Thompson. No. 965,963; Aug. 2; Sp. p. 243; Gaz. vol. 157; p. 40.
Oil-burner, Gas-generating. T. Muehleisen. No. 973,804; Oct. 25; Sp. p. 5014; Gaz. vol. 159; p. 872.
Oil burners, Automatic feed regulating and mixing device for crude-. J. B. Willings. No. 966,373; Aug. 2; Sp. p. 1095; Gaz. vol. 157; p. 176.
Oil-burning apparatus, Crude-. A. R. Kunkel. No. 976,268; Nov. 22; Sp. p. 4848; Gaz. vol. 160; p. 827.
Oil-burning furnace. C. C. Phipps. No. 958,433; May 17; Sp. p. 4439; Gaz. vol. 154; p. 725.
Oil-burning furnace. L. Koczwara. No. 971,902; Oct. 4; Sp. p. 842; Gaz. vol. 159; p. 145.
Oil-burning heater. P. Lisieniecki. No. 965,721; July 26; Sp. p. 5893; Gaz. vol. 156; p. 1001.
Oil-burning system. H. Duke. No. 947,890; Feb. 1; Sp. p. 242; Gaz. vol. 151; p. 40.
Oil-bush and friction device, Combined. W. F. Groene. No. 959,520; May 31; Sp. p. 6706; Gaz. vol. 154; p. 1141.
Oil-bushing and packing-ring. J. J. Coyne and D. R. Llewellyn. No. 968,132; Aug. 23; Sp. p. 4883; Gaz. vol. 157; p. 847.
Oil-cake envelop or press-cloth. N. W. L. Brown. No. 948,409; Feb. 8; Sp. p. 1329; Gaz. vol. 151; p. 238.
Oil-can. F. G. Svetlik. No. 945,637; Jan. 4; Sp. p. 1353; Gaz. vol. 150; p. 210.
Oil-can. V. A. Weaver. No. 958,949; May 24; Sp. p. 5516; Gaz. vol. 154; p. 926.
Oil-can. J. G. Burch and W. R. Taylor. No. 959,711; May 31; Sp. p. 7096; Gaz. vol. 154; p. 1205.
Oil-can. W. V. Evans and H. C. Gordon. No. 960,008; May 31; Sp. p. 7779; Gaz. vol. 154; p. 1309.
Oil-can. J. Gullong. No. 960,898; June 7; Sp. p. 1325; Gaz. vol. 155; p. 222.
Oil-can. L. M. Graves and J. W. Allen. No. 965,578; July 26; Sp. p. 5595; Gaz. vol. 156; p. 952.
Oil-can. A. R. Pritchard. No. 973,564; Oct. 25; Sp. p. 4512; Gaz. vol. 159; p. 788.
Oil-can and lubricator, Combined. C. Arthur. No. 976,333; Nov. 22; Sp. p. 4976; Gaz. vol. 160; p. 847.
Oil-can, Non-explosive. C. Rosenzweig. No. 965,015; July 19; Sp. p. 4372; Gaz. vol. 156; p. 729.
Oil-can or tool box. H. E. Whitney. No. 978,251; Dec. 13; Sp. p. 1809; Gaz. vol. 161; p. 317.
Oil-conductor. J. R. Donnelly. No. 950,225; Feb. 22; Sp. p. 5202; Gaz. vol. 151; p. 912.
Oil-converting process. J. H. Adams. No. 976,975; Nov. 29; Sp. p. 6412; Gaz. vol. 160; p. 1095.
Oil-cup. J. P. Doyle. No. 954,173; Apr. 5; Sp. p. 1013; Gaz. vol. 153; p. 172.
Oil-cup. W. E. S. Strong and F. V. Bartlett. No. 959,643; May 31; Sp. p. 6948; Gaz. vol. 154; p. 1184.
Oil-cup. J. N. Hawkins. No. 960,172; May 31; Sp. p. 8104; Gaz. vol. 154; p. 1363.
Oil-cup. R. L. Holehouse. No. 976,365; Nov. 22; Sp. p. 5056; Gaz. vol. 160; p. 859.
Oil-cup. V. J. Wahlstrom. No. 978,521; Dec. 13; Sp. p. 2378; Gaz. vol. 161; p. 411.
Oil-cup closure. E. J. and W. L. Nahm. No. 957,994; May 17; Sp. p. 3249; Gaz. vol. 154; p. 571.
Oil-cup, Thermostatic. E. J. Grant. No. 971,440; Sept. 27; Sp. p. 4843; Gaz. vol. 158; p. 848.
Oil decoloring, bleaching, and thickening apparatus. J. C. L. Vander Lande. No. 950,723; Mar. 1; Sp. p. 572; Gaz. vol. 152; p. 89.
Oil-distributing apparatus. C. P. Price. No. 958,434; May 17; Sp. p. 4440; Gaz. vol. 154; p. 725.
Oil-distributing apparatus. C. P. Price. No. 980,002; Dec. 27; Sp. p. 5575; Gaz. vol. 161; p. 963.
Oil-distributing can. J. Steel. No. 963,824; July 12; Sp. p. 1794; Gaz. vol. 156; p. 294.
Oil engine, Crude-. J. M. Primm. No. 956,169; Apr. 26; Sp. p. 5382; Gaz. vol. 153; p. 944.
Oil, Extracting. F. B. Anderson. No. 960,143; May 31; Sp. p. 8054; Gaz. vol. 154; p. 1354.
Oil-extracting apparatus. M. Kirshner. No. 945,549; Jan. 4; Sp. p. 1167; Gaz. vol. 150; p. 181.
Oil-extracting apparatus. W. J. Wells. No. 954,660; Apr. 12; Sp. p. 2072; Gaz. vol. 153; p. 364.
Oil-extracting apparatus. F. B. Anderson. No. 960,144; May 31; Sp. p. 8056; Gaz. vol. 154; p. 1354.
Oil-feed for journals, Adjustable. H. G. Shortt. No. 955,608; Apr. 19; Sp. p. 4136; Gaz. vol. 153; p. 719.
Oil-feeding mechanism. G. Fornaca. No. 964,637; July 19; Sp. p. 3505; Gaz. vol. 156; p. 599.
Oil from seed-meal, Automatic press for extracting. H. A. Herr. No. 968,153; Aug. 23; Sp. p. 4932; Gaz. vol. 157; p. 854.
Oil-gun. H. G. Molinari and H. Laurent. No. 949,193; Feb. 15; Sp. p. 2967; Gaz. vol. 151; p. 525.
Oil mixture. J. J. Fink. No. 945,711; Jan. 4; Sp. p. 1504; Gaz. vol. 150; p. 235.
Oil of wintergreen, Menthylated. G. Blieberger. No. 979,416; Dec. 27; Sp. p. 4313; Gaz. vol. 161; p. 765.
Oil or gas burner. A. W. Andorfer. No. 970,363; Sept. 13; Sp. p. 2592; Gaz. vol. 158; p. 438.
Oil or gas furnace, Fuel. W. S. Quigley. No. 975,068; Nov. 8; Sp. p. 2242; Gaz. vol. 160; p. 366.
Oil or grease resistant article. I. L. Roberts. No. 970,643; Sept. 20; Sp. p. 3222; Gaz. vol. 158; p. 555.
Oil or other viscous liquids, Apparatus for heating or cooling. J. G. Weir. No. 979,618; Dec. 27; Sp. p. 4755; Gaz. vol. 161; p. 835.
Oil or vehicle for paints, colors, and pigments. A. Hahn. No. 946,126; Jan. 11; Sp. p. 2451; Gaz. vol. 150; p. 408.
Oil, Paint-. E. Gossett. No. 979,662; Dec. 27; Sp. p. 4847; Gaz. vol. 161; p. 850.
Oil-pot indicator. A. R. Pritchard. No. 979,799; Dec. 27; Sp. p. 5171; Gaz. vol. 161; p. 896.
Oil-press. L. W. Cursey. No. 967,732; Aug. 16; Sp. p. 4027; Gaz. vol. 157; p. 690.
Oil-press box. N. W. L. Brown. No. 953,317; Mar. 29; Sp. p. 5881; Gaz. vol. 152; p. 1062.
Oil-press box. N. W. L. Brown. No. 978,840; Dec. 20; Sp. p. 3046; Gaz. vol. 161; p. 542.
Oil-refining apparatus. J. C. Fleming. No. 956,065; Apr. 26; Sp. p. 5146; Gaz. vol. 153; p. 907.
Oil-shield. H. Haudenschild. No. 973,114; Oct. 18; Sp. p. 3528; Gaz. vol. 159; p. 610.
Oil-switch. H. P. Ball. No. 945,671; Jan. 4; Sp. p. 1420; Gaz. vol. 150; p. 222.
Oil-switch. H. L. Smith. No. 947,860; Feb. 1; Sp. p. 172; Gaz. vol. 151; p. 29.
Oil-tank, Safety. W. Weston and J. G. Orth. No. 954,152; Apr. 5; Sp. p. 974; Gaz. vol. 153; p. 164.
Oils and the like, Treatment of hydrocarbon. J. Noad. No. 971,468; Sept. 27; Sp. p. 4892; Gaz. vol. 158; p. 857.
Oils, &c., Apparatus for the purification of. O. Brücke. No. 963,510; July 5; Sp. p. 1095; Gaz. vol. 156; p. 167.
Oils, fats, &c., Emulsifying. A. Muller-Jacobs, and R. C. F. A. C. Bernhardi. No. 975,447; Nov. 15; Sp. p. 3055; Gaz. vol. 160; p. 522.
Oils for combustion purposes, Treating. F. Rademacher. No. 971,142; Sept. 27; Sp. p. 4265; Gaz. vol. 158; p. 751.
Oils, Making fatty compounds for use as Turkey-red. A. Schmitz. No. 964,565; July 19; Sp. p. 3363; Gaz. vol. 156; p. 575.
Oils, Manufacture of lubricating-. A. De Hemptinne. No. 970,473; Sept. 20; Sp. p. 2837; Gaz. vol. 158; p. 496.
Oils, Treatment of. J. H. Parker. No. 958,820; May 24; Sp. p. 5228; Gaz. vol. 154; p. 882.
Oils, Treatment of mineral and vegetable. J. J. Hood and A. G. Salamon. No. 962,840; June 28; Sp. p. 5484; Gaz. vol. 155; p. 959.
Oils, Treatment of mineral and vegetable. J. J. Hood and A. G. Salamon. No. 962,841; June 28; Sp. p. 5485; Gaz. vol. 155; p. 959.
Oiler for automobiles, Sight-feed. J. Eckhard. No. 974,249; Nov. 1; Sp. p. 374; Gaz. vol. 160; p. 54.
Oiler for axles, Dust-proof self-. J. J. McGuire. No. 950,298; Feb. 22; Sp. p. 5338; Gaz. vol. 151; p. 937.
Oiler for wheels, Automatic. W. T. Jones. No. 953,038; Mar. 29; Sp. p. 5272; Gaz. vol. 152; p. 971.
Oiler, Force-feed. G. E. Franquist. No. 968,929; Aug. 30; Sp. p. 6589; Gaz. vol. 157; p. 1148.
Oiler, Hand-. W. Rubly. No. 966,861; Aug. 9; Sp. p. 2231; Gaz. vol. 157; p. 367.
Oiler, Hand street-. J. Archdeacon. No. 970,290; Sept. 13; Sp. p. 2457; Gaz. vol. 158; p. 414.
Oiler, Road-. W. H. Gailor. No. 962,209; June 21; Sp. p. 4130; Gaz. vol. 155; p. 717.
Oiler, Saw-. A. P. Eckstrom. No. 961,289; June 14; Sp. p. 2142; Gaz. vol. 155; p. 384.
Oiler, Tramway-. R. H. Hall. No. 945,782; Jan. 11; Sp. p. 1720; Gaz. vol. 150; p. 289.
Oiling cauls, Apparatus for. A. S. Nichols. No. 971,397; Sept. 27; Sp. p. 4769; Gaz. vol. 158; p. 834.
Oiling device. W. W. Nugent. No. 950,556; Mar. 1; Sp. p. 202; Gaz. vol. 152; p. 33.
Oiling device. R. T. Horlick. No. 961,497; June 14; Sp. p. 2599; Gaz. vol. 155; p. 453.
Oiling device, Automatic. J. M. Hopwood. No. 967,774; Aug. 16; Sp. p. 4113; Gaz. vol. 157; p. 704.
Oiling device for stocks and dies. G. T. E. Henriksen. No. 969,867; Sept. 13; Sp. p. 1571; Gaz. vol. 158; p. 270.
Oiling device, Valve-. W. J. Richards. No. 952,580; Mar. 22; Sp. p. 4302; Gaz. vol. 152; p. 788.
Oiling system for engines. G. W. Fairfield. No. 955,062; Apr. 12; Sp. p. 2963; Gaz. vol. 153; p. 502.

Oilstone-holder. L. Hayne and E. B. Pike. No. 955,265; Apr. 19; Sp. p. 3388; Gaz. vol. 153; p. 603.
Ointment-applier. R. A. Kooken. No. 963,051; July 5; Sp. p. 50; Gaz. vol. 156; p. 10.
Ointment-bases, Making artificial. S. Knopf. No. 971,681; Oct. 4; Sp. p. 359; Gaz. vol. 159; p. 63.
Ointment, Opium. T. M. Cadenhead. No. 950,658; Mar. 1; Sp. p. 420; Gaz. vol. 152; p. 68.
Olefin or saturated acids, Obtaining. I. K. Phelps. No. 974,182; Nov. 1; Sp. p. 164; Gaz. vol. 160; p. 29.
Olive-grinding machine. A. V. Bills. No. 946,196; Jan. 11; Sp. p. 2610; Gaz. vol. 150; p. 433.
One-piece bag. W. Schweitzer and H. H. Labadie. No. 947,045; Jan. 18; Sp. p. 4534; Gaz. vol. 150; p. 748.
Onion-pulling attachment. F. A. Zappe. No. 948,715; Feb. 8; Sp. p. 1985; Gaz. vol. 151; p. 340.
Open-hearth furnace. S. E. Meyers. No. 949,192; Feb. 15; Sp. p. 2965; Gaz. vol. 151; p. 525.
Opera-chair. G. R. Parr. No. 974,703; Nov. 1; Sp. p. 1420; Gaz. vol. 160; p. 220.
Operating-table. E. E. Helfrich. No. 948,447; Feb. 8; Sp. p. 1401; Gaz. vol. 151; p. 250.
Operating-table, Physician's and surgeon's. B. D. Thorner. No. 972,414; Oct. 11; Sp. p. 1948; Gaz. vol. 159; p. 342.
Operating-tables, Attachment for physicians'. F. N. Solsem. No. 951,515; Mar. 8; Sp. p. 2142; Gaz. vol. 152; p. 371.
Optical instrument. G. N. Saegmuller. No. 963,473; July 5; Sp. p. 1020; Gaz. vol. 156; p. 155.
Optical instrument. T. A. Somdal. No. 971,798; Oct. 4; Sp. p. 600; Gaz. vol. 159; p. 105.
Optical instrument. B. F. Mayo. No. 973,062; Oct. 18; Sp. p. 3423; Gaz. vol. 159; p. 593.
Optical-instrument attachment. T. J. Janda. No. 973,438; Oct. 18; Sp. p. 4240; Gaz. vol. 159; p. 722.
Optical projecting apparatus. E. Schneider. No. 953,105; Mar. 29; Sp. p. 5442; Gaz. vol. 152; p. 995.
Optical projection apparatus. J. W. Henwood. No. 975,949; Nov. 15; Sp. p. 4107; Gaz. vol. 160; p. 693.
Optical purposes, Color-screen for. C. Ramstein-Gschwind. No. 970,111; Sept. 13; Sp. p. 2079; Gaz. vol. 158; p. 353.
Optical table. M. Jacobs. No. 978,299; Dec. 13; Sp. p. 1917; Gaz. vol. 161; p. 335.
Optical testing instrument. J. F. Forth. No. 947,153; Jan. 18; Sp. p. 4736; Gaz. vol. 150; p. 780.
Optometer. I. Buckman. No. 947,710; Jan. 25; Sp. p. 5997; Gaz. vol. 150; p. 999.
Optometer. H. D. Reese and A. J. Glaxon. No. 968,981; Aug. 30; Sp. p. 6690; Gaz. vol. 157; p. 1165.
Optometer. I. Fox. No. 971,499; Sept. 27; Sp. p. 4952; Gaz. vol. 158; p. 867.
Orange and lemon squeezer. L. S. Hackney. No. 968,344; Aug. 23; Sp. p. 5349; Gaz. vol. 157; p. 922.
Orange-sizing machine. J. W. Stevenson. No. 974,720; Nov. 1; Sp. p. 1455; Gaz. vol. 160; p. 224.
Orchard-heater. W. S. Haswell. No. 945,529; Jan. 4; Sp. p. 1129; Gaz. vol. 150; p. 174.
Orchard-heater. C. F. Sweley. No. 950,414; Feb. 22; Sp. p. 5557; Gaz. vol. 151; p. 974.
Orchard-heater. R. J. Meyer. No. 958,151; May 17; Sp. p. 3711; Gaz. vol. 154; p. 627.
Orchard-heater. W. H. Edwards and M. C. Boals. No. 966,670; Aug. 9; Sp. p. 1778; Gaz. vol. 157; p. 304.
Orchard-heater. J. L. Hamilton. No. 970,044; Sept. 13; Sp. p. 1953; Gaz. vol. 158; p. 331.
Orchard-heater. T. E. Fulghum. No. 975,611; Nov. 15; Sp. p. 3413; Gaz. vol. 160; p. 579.
Orchard-heater. P. H. Troutman. No. 976,013; Nov. 15; Sp. p. 4222; Gaz. vol. 160; p. 716.
Orchard-heater. J. L. Hamilton. No. 976,072; Nov. 15; Sp. p. 4330; Gaz. vol. 160; p. 735.
Orchard-heater. P. H. Troutman. No. 978,793; Dec. 13; Sp. p. 2965; Gaz. vol. 161; p. 501.
Orchard-heating device. P. H. Troutman. No. 961,662; June 14; Sp. p. 2931; Gaz. vol. 155; p. 508.
Orchard-heating device. F. Stapp. No. 967,259; Aug. 16; Sp. p. 3062; Gaz. vol. 157; p. 530.
Order-slip, Manifolding. G. E. Morton. No. 962,451; June 28; Sp. p. 4670; Gaz. vol. 155; p. 824.
Ordnance, Firing mechanism for. C. Holmstorm and A. E. Mascall. No. 958,642; May 17; Sp. p. 4838; Gaz. vol. 154; p. 794.
Ordnance sighting apparatus. E. Olsson. No. 950,078; Feb. 22; Sp. p. 4887; Gaz. vol. 151; p. 860.
Ore and coal washer. H. W. Falker, F. Schultz, and J. F. Wagner. No. 977,087; Nov. 29; Sp. p. 6644; Gaz. vol. 160; p. 1133.
Ore blocks for the briqueting-furnace, Apparatus for forming. G. Gröndal. No. 968,467; Aug. 23; Sp. p. 5588; Gaz. vol. 157; p. 964.
Ore-briqueting. W. Lessing. No. 952,914; Mar. 22; Sp. p. 5017; Gaz. vol. 152; p. 902.
Ore-classifier. F. G. Janney. No. 964,261; July 12; Sp. p. 2679; Gaz. vol. 156; p. 442.
Ore-classifier. A. D. J. Malchus. No. 975,971; Nov. 15; Sp. p. 4147; Gaz. vol. 160; p. 701.
Ore-cleaner. A. McDougall. No. 963,721; July 5; Sp. p. 1519; Gaz. vol. 156; p. 237.
Ore concentrating and separating apparatus. F. Dallemagne. No. 953,900; Apr. 5; Sp. p. 430; Gaz. vol. 153; p. 78.
Ore-concentrating jig. M. Doubledee. No. 973,180; Oct. 18; Sp. p. 3699; Gaz. vol. 159; p. 634.
Ore concentration. H. L. Sulman, H. H. Greenway, and A. H. Higgins. No. 962,678; June 28; Sp. p. 5150; Gaz. vol. 155; p. 901.
Ore-concentration apparatus. T. J. Hoover. No. 979,857; Dec. 27; Sp. p. 5295; Gaz. vol. 161; p. 916.
Ore concentration, Apparatus for. T. J. Hoover. No. 953,746; Apr. 5; Sp. p. 128; Gaz. vol. 153; p. 25.
Ore-concentrator. H. J. Dykes. No. 953,520; Mar. 29; Sp. p. 6334; Gaz. vol. 152; p. 1135.
Ore-concentrator. S. R. Swain. No. 962,990; June 28; Sp. p. 5760; Gaz. vol. 155; p. 1009.
Ore-concentrator. L. I. Blake. No. 964,083; July 12; Sp. p. 2327; Gaz. vol. 156; p. 383.
Ore-concentrator. J. F. Isbell. No. 964,425; July 12; Sp. p. 3002; Gaz. vol. 156; p. 495.
Ore-concentrator. G. W. Burnhart. No. 966,521; Aug. 9; Sp. p. 1478; Gaz. vol. 157; p. 254.
Ore-concentrator. U. S. James. No. 968,951; Aug. 30; Sp. p. 6632; Gaz. vol. 157; p. 1155.
Ore-concentrator. I. F. Monell. No. 972,017; Oct. 4; Sp. p. 1115; Gaz. vol. 159; p. 187.
Ore-concentrator. E. H. Moe. No. 972,463; Oct. 11; Sp. p. 2041; Gaz. vol. 159; p. 358.
Ore-concentrator. W. O. King. No. 974,075; Oct. 25; Sp. p. 5572; Gaz. vol. 159; p. 966.
Ore concentrator and classifier. M. P. Boss. No. 959,838; May 31; Sp. p. 7375; Gaz. vol. 154; p. 1249.
Ore concentrator or separator. G. C. Kidder. No. 974,395; Nov. 1; Sp. p. 707; Gaz. vol. 160; p. 107.
Ore-concentrator, Hydraulic. J. G. Kirksey. No. 964,652; July 19; Sp. p. 3536; Gaz. vol. 156; p. 605.
Ore-crusher. K. McKenzie and M. Charley. No. 952,046; Mar. 15; Sp. p. 3220; Gaz. vol. 152; p. 580.
Ore-crusher. I. L. Mitchell. No. 965,830; July 26; Sp. p. 6126; Gaz. vol. 156; p. 1039.
Ore-crushing machinery. E. C. Hutchinson. No. 954,295; Apr. 5; Sp. p. 1280; Gaz. vol. 153; p. 211.
Ore-dressing, Flotation-tank for. S. K. Behrend. No. 979,820; Dec. 27; Sp. p. 5208; Gaz. vol. 161; p. 903.
Ore-dressing machine. H. G. King. No. 971,046; Sept. 27; Sp. p. 4066; Gaz. vol. 158; p. 720.
Ore feeder, sampler, classifier, and separator, Combined. H. G. King. No. 946,759; Jan. 18; Sp. p. 3901; Gaz. vol. 150; p. 650.
Ore-furnace. C. J. Best. No. 979,921; Dec. 27; Sp. p. 5422; Gaz. vol. 161; p. 937.
Ore, furnace-dust, waste metal, waste iron, &c., Briqueting fines of. M. Glass. No. 958,623; May 17; Sp. p. 4797; Gaz. vol. 154; p. 788.
Ore, furnace-dust, waste metal, waste iron, &c., Briqueting fines of. M. Glass. No. 958,700; May 17; Sp. p. 4947; Gaz. vol. 154; p. 813.
Ore, furnace-dust, waste metal, waste iron, &c., Briqueting fines of. M. Glass. No. 958,701; May 17; Sp. p. 4948; Gaz. vol. 154; p. 813.
Ore-grinding machine. C. R. Hotchkiss. No. 964,024; July 12; Sp. p. 2201; Gaz. vol. 156; p. 362.
Ore-jig. G. H. Williams. No. 976,419; Nov. 22; Sp. p. 5176; Gaz. vol. 160; p. 879.
Ore-jig-operating mechanism. W. A. Bradley. No. 979,253; Dec. 20; Sp. p. 4007; Gaz. vol. 161; p. 689.
Ore-jigger. C. E. Knowles. No. 973,281; Oct. 18; Sp. p. 3905; Gaz. vol. 159; p. 668.
Ore-mill. T. C. Histed. No. 949,982; Feb. 22; Sp. p. 4680; Gaz. vol. 151; p. 828.
Ore, mineral, and coal breaker. I. and H. K. Christ. No. 962,998; June 28; Sp. p. 5779; Gaz. vol. 155; p. 1012.
Ore products, &c., Means for handling and distributing dewatered crushed. H. C. Behr. No. 956,669; May 3; Sp. p. 349; Gaz. vol. 154; p. 58.
Ore-pulp-treating apparatus. B. MacDonald. No. 948,766; Feb. 8; Sp. p. 2104; Gaz. vol. 151; p. 357.
Ore-roaster. A. J. Garver. No. 954,729; Apr. 12; Sp. p. 2236; Gaz. vol. 153; p. 388.
Ore-roaster. A. R. Wilfley. No. 969,927; Sept. 13; Sp. p. 1690; Gaz. vol. 158; p. 291.
Ore-roasting furnace. B. Hall. No. 945,522; Jan. 4; Sp. p. 1116; Gaz. vol. 150; p. 172.
Ore-roasting furnace. H. W. Kent and E. H. Lichtenberg. No. 947,337; Jan. 25; Sp. p. 5188; Gaz. vol. 150; p. 875.
Ore-roasting furnace. C. E. Mark. No. 952,680; Mar. 22; Sp. p. 4527; Gaz. vol. 152; p. 823.
Ore-roasting furnace. U. Wedge. No. 966,277; Aug. 2; Sp. p. 915; Gaz. vol. 157; p. 147.
Ore-roasting furnace. J. B. F. Herreshoff. No. 976,175; Nov. 22; Sp. p. 4608; Gaz. vol. 160; p. 793.
Ore-roasting furnace. X. de Spirlet. No. 979,349; Dec. 20; Sp. p. 4172; Gaz. vol. 161; p. 720.
Ore-roasting kiln, Annular. J. Zellweger. No. 976,769; Nov. 22; Sp. p. 5911; Gaz. vol. 160; p. 998.
Ore-roasting mechanism. H. H. Bliss. No. 968,507; Aug. 23; Sp. p. 5676; Gaz. vol. 157; p. 978.
Ore-sampling apparatus. J. A. Van Mater. No. 946,744; Jan. 18; Sp. p. 3862; Gaz. vol. 150; p. 645.
Ore-sampling apparatus. A. J. McCone. No. 949,284; Feb. 15; Sp. p. 3150; Gaz. vol. 151; p. 555.
Ore-screen. R. P. Akins. No. 952,061; Mar. 15; Sp. p. 3247; Gaz. vol. 152; p. 585.

Alphabetical list of inventions—Continued.

Ore-screen. F. Franz. No. 967,008; Aug. 9; Sp. p. 2530; Gaz. vol. 157; p. 417.
Ore-screen. P. R. Stanhope. No. 976,943; Nov. 29; Sp. p. 6323; Gaz. vol. 160; p. 1083.
Ore-separating apparatus, Magnetic. Q. Bent. No. 954,016; Apr. 5; Sp. p. 659; Gaz. vol. 153; p. 118.
Ore-separating machine. A. G. and E. G. Seberg. No. 964,567; July 19; Sp. p. 3368; Gaz. vol. 156; p. 575.
Ore separating or concentrating machine. W. R. Lins No. 962,575; June 28; Sp. p. 4951; Gaz. vol. 155; p. 867.
Ore separation, Magnetic. Q. Bent. No. 954,015; Apr. 5; Sp. p. 656; Gaz. vol. 153; p. 117.
Ore-separator. P. H. McGowan. No. 945,857; Jan. 11; Sp. p. 1903; Gaz. vol. 150; p. 316.
Ore-separator. G. W. Kunkel. No. 949,709; Feb. 15; Sp. p. 4006; Gaz. vol. 151; p. 697.
Ore-separator, Magnetic. G. E. Ohrn. No. 946,394; Jan. 11; Sp. p. 3125; Gaz. vol. 150; p. 503.
Ore-separator, Magnetic. A. G. Holmberg. No. 972,109; Oct. 4; Sp. p. 1287; Gaz. vol. 159; p. 217.
Ore-separator, Magnetic. C. A. Sellon. No. 973,984; Oct. 25; Sp. p. 5385; Gaz. vol. 159; p. 935.
Ore, Sintering. G. G. Vivian. No. 950,798; Mar. 1; Sp. p. 732; Gaz. vol. 152; p. 116.
Ore-sizing apparatus. C. P. Watterson. No. 963,488; July 5; Sp. p. 1049; Gaz. vol. 156; p. 160.
Ore solutions, Apparatus for recovering values from. C. Robinson. No. 954,466; Apr. 12; Sp. p. 1637; Gaz. vol. 153; p. 298.
Ore, Treating. A. A. Lockwood and M. R. A. Samuel. No. 956,381; Apr. 26; Sp. p. 5845; Gaz. vol. 153; p. 1016.
Ore, Treating. T. J. Lovett. No. 979,180; Dec. 20; Sp. p. 3842; Gaz. vol. 161; p. 665.
Ore-treating apparatus. F. E. Hatch. No. 946,727; Jan. 18; Sp. p. 3826; Gaz. vol. 150; p. 639.
Ore-treating apparatus. W. G. Perkins and M. L. Requa. No. 951,199; Mar. 8; Sp. p. 1482; Gaz. vol. 152; p. 268.
Ore-treatment vats, Fluid-distributing pipe for. C. E. D. Usher. No. 965,767; July 26; Sp. p. 5983; Gaz. vol. 156; p. 1017.
Ores and carboniferous earths, Treating. A. A. Lockwood. No. 956,773; May 3; Sp. p. 589; Gaz. vol. 154; p. 94.
Ores and carboniferous earths, Treating. A. A. Lockwood. No. 959,239; May 24; Sp. p. 6120; Gaz. vol. 154; p. 1022.
Ores, Agitating apparatus for the treatment of. J. E. Rothwell and R. P. Akins. No. 951,742; Mar. 8; Sp. p. 2590; Gaz. vol. 152; p. 448.
Ores and metals, Treating. J. H. Reid. No. 950,116; Feb. 22; Sp. p. 4967; Gaz. vol. 151; p. 873.
Ores, Apparatus for electrical treatment of. W. B. McPherson. No. 962,040; June 21; Sp. p. 3748; Gaz. vol. 155; p. 657.
Ores bearing precious metals, Treatment of. J. C. Clancy. No. 955,318; Apr. 19; Sp. p. 3502; Gaz. vol. 153; p. 621.
Ores bearing precious metals, Treatment of. J. C. Clancy. No. 955,319; Apr. 19; Sp. p. 3503; Gaz. vol. 153; p. 621.
Ores bearing precious metals, Treatment of. J. C. Clancy. No. 971,251; Sept. 27; Sp. p. 4505; Gaz. vol. 158; p. 788.
Ores bearing precious metals, Treatment of. J. C. Clancy. No. 971,252; Sept. 27; Sp. p. 4506; Gaz. vol. 158; p. 788.
Ores, Concentration of. H. L. Sulman. No. 955,012; Apr. 12; Sp. p. 2872; Gaz. vol. 153; p. 486.
Ores containing copper, Treating sulfid. J. McFetridge. No. 959,578; May 31; Sp. p. 6826; Gaz. vol. 154; p. 1162.
Ores, Dressing. F. H. A. Wielgolaski. No. 953,309; Mar. 29; Sp. p. 5866; Gaz. vol. 152; p. 1059.
Ores, Extracting or separating precious values from. J. S. Island. No. 965,714; July 26; Sp. p. 5878; Gaz. vol. 156; p. 998.
Ores for the extraction of metals therefrom, Treatment of. H. Rosalt. No. 948,827; Feb. 8; Sp. p. 2227; Gaz. vol. 151; p. 377.
Ores, Jigging-machine for dressing. H. R. Hancock. No. 965,294; July 26; Sp. p. 4942; Gaz. vol. 156; p. 852.
Ores, Lixivating. G. Vervuert. No. 952,484; Mar. 22; Sp. p. 4091; Gaz. vol. 152; p. 755.
Ores, Nodulizing fine. J. Weatherby, Jr. No. 949,387; Feb. 15; Sp. p. 3393; Gaz. vol. 151; p. 592.
Ores, particularly oxids and sulfids, Reducing refractory. G. Boericke. No. 958,851; May 24; Sp. p. 5308; Gaz. vol. 154; p. 894.
Ores, Process of and apparatus for treating. W. G. Perkins and M. L. Requa. No. 951,198; Mar. 8; Sp. p. 1478; Gaz. vol. 152; p. 268.
Ores, Reducing. F. M. Becket. No. 967,159; Aug. 16; Sp. p. 2865; Gaz. vol. 157; p. 496.
Ores, Reducing metallic oxid. H. E. T. Haultain. No. 950,595; Mar. 1; Sp. p. 273; Gaz. vol. 152; p. 45.
Ores, Reducing nickel hydrosilicate. A. Chalas. No. 959,460; May 31; Sp. p. 6568; Gaz. vol. 154; p. 1121.
Ores, Reduction of sulfur and iron. A. Wiens. No. 973,732; Oct. 25; Sp. p. 4873; Gaz. vol. 159; p. 847.
Ores, Treating. P. A. Emanuel. No. 957,755; May 10; Sp. p. 2661; Gaz. vol. 154; p. 458.
Ores, Treating. P. A. Emanuel. No. 957,756; May 10; Sp. p. 2665; Gaz. vol. 154; p. 459.
Ores, Treating. E. B. Parnell. No. 962,383; June 21; Sp. p. 4488; Gaz. vol. 155; p. 775.
Ores, Treating. E. B. Goodwin. No. 970,325; Sept. 13; Sp. p. 2523; Gaz. vol. 158; p. 426.
Ores, Treating. C. E. Baker. No. 972,149; Oct. 11; Sp. p. 1372; Gaz. vol. 159; p. 251.
Ores, Treating arsenid. F. P. Dewey. No. 954,263; Apr. 5; Sp. p. 1199; Gaz. vol. 153; p. 201.
Ores, Treating arsenid. F. P. Dewey. No. 954,264; Apr. 5; Sp. p. 1201; Gaz. vol. 153; p. 201.
Ores, Treating fine. J. N. Whitman. No. 978,971; Dec. 20; Sp. p. 3355; Gaz. vol. 161; p. 590.
Ores, Treatment of. C. M. Johnson. No. 964,870; July 19; Sp. p. 4088; Gaz. vol. 156; p. 681.
Ores, Treatment of. C. M. Johnson. No. 977,096; Nov. 29; Sp. p. 6671; Gaz. vol. 160; p. 1136.
Ores, Wet process for the treatment of. H. T. Durant, H. L. Sulman, and W. Hommel. No. 966,389; Aug. 2; Sp. p. 1125; Gaz. vol. 157; p. 181.
Organ and piano, Combined. W. R. Weaver. No. 954,659; Apr. 12; Sp. p. 2070; Gaz. vol. 153; p. 364.
Organ-pipe. A. S. Brook. No. 960,263; June 7; Sp. p. 46; Gaz. vol. 155; p. 11.
Organ-pipe. W. E. Haskell. No. 965,896; Aug. 2; Sp. p. 107; Gaz. vol. 157; p. 18.
Organ-pipe. W. E. Haskell. No. 965,898; Aug. 2; Sp. p. 113; Gaz. vol. 157; p. 19.
Organ-pipe. W. E. Haskell. No. 967,911; Aug. 23; Sp. p. 4391; Gaz. vol. 157; p. 773.
Organ-pipe. W. E. Haskell. No. 971,502; Sept. 27; Sp. p. 4958; Gaz. vol. 158; p. 868.
Organ-pipe with qualifying-tubes. W. E. Haskell. No. 965,897; Aug. 2; Sp. p. 111; Gaz. vol. 157; p. 18.
Organ-player, Mechanical. W. E. Gibbs. No. 979,284; Dec. 20; Sp. p. 4062; Gaz. vol. 161; p. 699.
Organ, Reed-. S. N. Swan. No. 963,827; July 12; Sp. p. 1803; Gaz. vol. 156; p. 296.
Organs and other musical instruments, Suction wind-chest for self-playing. W. A. Brauer. No. 964,607; July 19; Sp. p. 3450; Gaz. vol. 156; p. 590.
Organs, Electric coupler-action for. J. O. Funkhouser. No. 948,010; Feb. 1; Sp. p. 475; Gaz. vol. 151; p. 77.
Organic substances, Reduction of. F. Bedford. No. 949,954; Feb. 22; Sp. p. 4576; Gaz. vol. 151; p. 818.
Ornament, Metal. J. Wander. No. 963,341; July 5; Sp. p. 757; Gaz. vol. 156; p. 110.
Ornamental articles, Producing. W. E. Heeren. No. 958,641; May 17; Sp. p. 4836; Gaz. vol. 154; p. 794.
Orthopedic device. L. Roth. No. 954,005; Apr. 5; Sp. p. 638; Gaz. vol. 153; p. 114.
Orthopedic treatment, Jury and jury-frame for. G. W. Haas. No. 963,890; July 12; Sp. p. 1932; Gaz. vol. 156; p. 317.
Oscillating motor. G. Heger. No. 949,372 Feb. 15; Sp. p. 3347; Gaz. vol. 151; p. 586.
Oscillating motor. L. S. Rizer. No. 967,560; Aug. 16; Sp. p. 3680; Gaz. vol. 157; p. 633.
Oscillating motor. W. V. Frank. No. 969,532; Sept. 6; Sp. p. 815; Gaz. vol. 158; p. 128.
Oscillating motor. H. A. Adams. No. 973,400; Oct. 18; Sp. p. 4167; Gaz. vol. 159; p. 710.
Oscillation-receiver. G. W. Pickard. No. 963,173; July 5; Sp. p. 372; Gaz. vol. 156; p. 52.
Oscillation-responsive device. L. De Forest. No. 979,275; Dec. 20; Sp. p. 4044; Gaz. vol. 161; p. 696.
Oscillations, Apparatus for producing high-frequency. I. Schönberg. No. 948,348; Feb. 8; Sp. p. 1183; Gaz. vol. 151; p. 217.
Oscillator, Electrical. F. K. Vreeland. No. 973,826; Oct. 25; Sp. p. 5058; Gaz. vol. 159; p. 880.
Oscillographs, Film-holder for. L. T. Robinson and R. Miller, Jr. No. 957,257; May 10; Sp. p. 1637; Gaz. vol. 154; p. 289.
Osteopathic tables, Swing for. W. E. Fogle. No. 957,758; May 10; Sp. p. 2671; Gaz. vol. 154; p. 459.
Otacoustic. E. May. No. 951,195; Mar. 8; Sp. p. 1473; Gaz. vol. 152; p. 267.
Outlet-box. A. I. Appleton and O. C. Hoffmann. No. 950,502; Mar. 1; Sp. p. 92; Gaz. vol. 152; p. 15.
Outlet-box. N. Marshall. No. 955,820; Apr. 19; Sp. p. 4588; Gaz. vol. 153; p. 792.
Outlet-box. L. T. La Paugh. No. 963,781; July 12; Sp. p. 1674; Gaz. vol. 156; p. 280.
Outlet-box. G. E. Neuberth. No. 963,802; July 12; Sp. p. 1726; Gaz. vol. 156; p. 287.
Outlet-box. N. Marshall. No. 967,404; Aug. 16; Sp. p. 3369; Gaz. vol. 157; p. 581.
Outlet-box. C. T. Pratt. No. 969,805; Sept. 13; Sp. p. 1432; Gaz. vol. 158; p. 249.
Outlet-box. E. R. Le Manquais. No. 977,643; Dec. 6; Sp. p. 512; Gaz. vol. 161; p. 77.
Outlet-box cover, Electrical-. E. H. Freeman. No. 971,002; Sept. 20; Sp. p. 3954; Gaz. vol. 158; p. 676.
Outlet or junction box. C. T. Pratt. No. 946,646; Jan. 18; Sp. p. 3654; Gaz. vol. 150; p. 612.
Outlines of a form, Reproducing. E. R. Sextone. No. 968,272; Aug. 23; Sp. p. 5207; Gaz. vol. 157; p. 896.
Outsole-marker. W. C. Stewart. No. 958,033; May 17; Sp. p. 3391; Gaz. vol. 154; p. 585.
Oven. M. J. Eimer and J. Field. No. 945,382; Jan. 4; Sp. p. 817; Gaz. vol. 150; p. 127.
Oven. G. H. Gray. No. 964,241; July 12; Sp. p. 2640; Gaz. vol. 156; p. 434.

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Oven. L. R. Holbrook. No. 970,501; Sept. 20; Sp. p. 2890; Gaz. vol. 158; p. 505.
Oven. W. J. Best. No. 979,413; Dec. 27; Sp. p. 4309; Gaz. vol. 161; p. 764.
Oven, Bake-. L. J. Kolb. No. 968,168; Aug. 23; Sp. p. 4990; Gaz. vol. 157; p. 860.
Oven, Baker's. J. C. Ferger. No. 954,385; Apr. 5; Sp. p. 1459; Gaz. vol. 153; p. 243.
Oven, Baker's. C. H. R. Joern. No. 955,514; Apr. 19; Sp. p. 3923; Gaz. vol. 153; p. 688.
Oven, Baker's. I. Slapo. No. 957,479; May 10; Sp. p. 2100; Gaz. vol. 154; p. 364.
Oven, Baker's. G. S. Baker. No. 964,370; July 12; Sp. p. 2892; Gaz. vol. 156; p. 478.
Oven, Baker's. L. McDaniels. No. 966,582; Aug. 9; Sp. p. 1612; Gaz. vol. 157; p. 275.
Oven, Baker's. W. F. Petersen. No. 975,889; Nov. 15; Sp. p. 3988; Gaz. vol. 160; p. 672.
Oven, Baking-. B. Nino. No. 975,272; Nov. 8; Sp. p. 2694; Gaz. vol. 160; p. 435.
Oven, Baking-. J. G. Redford. No. 976,598; Nov. 22; Sp. p. 5562; Gaz. vol. 160; p. 940.
Oven, Baking-. S. Turner. No. 977,347; Nov. 29; Sp. p. 7193; Gaz. vol. 160; p. 1223.
Oven-door. F. V. Knauss. No. 949,984; Feb. 22; Sp. p. 4688; Gaz. vol. 151; p. 829.
Oven-door. W. E. Huenefeld. No. 965,906; Aug. 2; Sp. p. 127; Gaz. vol. 157; p. 22.
Oven-door. W. E. Huenefeld. No. 966,017; Aug. 2; Sp. p. 379; Gaz. vol. 157; p. 60.
Oven-door. W. E. Huenefeld. No. 966,018; Aug. 2; Sp. p. 380; Gaz. vol. 157; p. 60.
Oven door, Baker's-. F. H. Van Houten and D. J. Hanna. No. 969,312; Sept. 6; Sp. p. 331; Gaz. vol. 158; p. 55.
Oven-door locking and releasing device. P. Riecke. No. 964,055; July 12; Sp. p. 2270; Gaz. vol. 156; p. 373.
Oven-doors against their seats, Device for pressing. P. Riecke. No. 962,669; June 28; Sp. p. 5134; Gaz. vol. 155; p. 897.
Oven, Electric. L. F. Parkhurst and H. G. Weeks. No. 968,683; Aug. 30; Sp. p. 6099; Gaz. vol. 157; p. 1066.
Oven, Electric baking-. J. I. Ayer and H. B. Gale. No. 975,107; Nov. 8; Sp. p. 2328; Gaz. vol. 160; p. 380.
Oven for tempering shoe-shanks and other small articles. A. M. Moore. No. 957,853; May 10; Sp. p. 2862; Gaz. vol. 154; p. 490.
Oven, Knockdown portable. M. A. Flannery. No. 964,855; July 19; Sp. p. 4058; Gaz. vol. 156; p. 676.
Oven-plate. F. V. Knauss. No. 955,411; Apr. 19; Sp. p. 3711; Gaz. vol. 153; p. 652.
Oven, Portable baker's. C. E. Sears. No. 955,917; Apr. 26; Sp. p. 4830; Gaz. vol. 153; p. 855.
Oven, Portable knockdown. W. E. Huenefeld. No. 964,914; July 19; Sp. p. 4179; Gaz. vol. 156; p. 697.
Oven, Portable-reel gas-. G. B. Meek. No. 961,512; June 14; Sp. p. 2622; Gaz. vol. 155; p. 457.
Oven-rack, Folding. J. F. Eskildson. No. 953,128; Mar. 29; Sp. p. 5490; Gaz. vol. 152; p. 1002.
Oven-shelf. A. B. Kingsland. No. 977,408; Nov. 29; Sp. p. 7356; Gaz. vol. 160; p. 1244.
Oven-shelf. J. E. Michaud and F. McGrath. No. 977,422; Nov. 29; Sp. p. 7386; Gaz. vol. 160; p. 1249.
Oven turn-table. M. D. Nicholson. No. 955,095; Apr. 12; Sp. p. 3019; Gaz. vol. 153; p. 512.
Overalls. T. B. and J. C. Pell. No. 965,596; July 26; Sp. p. 5626; Gaz. vol. 156; p. 958.
Overhead carrier. W. A. Law. No. 945,176; Jan. 4; Sp. p. 348; Gaz. vol. 150; p. 59.
Overhead carrier. J. E. Eisenhuth. No. 959,487; May 31; Sp. p. 6636; Gaz. vol. 154; p. 1131.
Overhead line structure. T. Varney. No. 946,624; Jan. 18; Sp. p. 3614; Gaz. vol. 150; p. 607.
Overhead switch. J. C. Fitzgerald. No. 961,433; June 14; Sp. p. 2450; Gaz. vol. 155; p. 431.
Overhead switch. J. C. Fitzgerald. No. 967,869; Aug. 16; Sp. p. 4298; Gaz. vol. 157; p. 735.
Overhead switch, Portable. J. C. Fitzgerald. No. 965,701; July 26; Sp. p. 5852; Gaz. vol. 156; p. 994.
Overload protective device. E. F. W. Alexanderson. No. 954,845; Apr. 12; Sp. p. 2520; Gaz. vol. 153; p. 429.
Overshoe. J. Smith. No. 948,797; Feb. 8; Sp. p. 2160; Gaz. vol. 151; p. 368.
Overshoe. L. B. Trafton. No. 965,127; July 19; Sp. p. 4588; Gaz. vol. 156; p. 766.
Overshoe-fastener. R. E. White. No. 975,815; Nov. 15; Sp. p. 3839; Gaz. vol. 160; p. 647.
Overshoe-retainer. L. Harrold and W. J. Thamsen. No. 962,428; June 28; Sp. p. 4617; Gaz. vol. 155; p. 815.
Overshoe-retainer. P. K. Young. No. 968,105; Aug. 23; Sp. p. 4828; Gaz. vol. 157; p. 838.
Oxalates from formates, Making. A. Wiens. No. 973,832; Oct. 25; Sp. p. 5070; Gaz. vol. 159; p. 882.
Oxidation of resistance-conductors, Preventing surface. J. T. H. Dempster. No. 957,193; May 10; Sp. p. 1485; Gaz. vol. 154; p. 265.
Oxids, Obtaining solutions or quasi solutions of certain metallic. Z. Cartwright. No. 980,143; Dec. 27; Sp. p. 5916; Gaz. vol. 161; p. 1010.
Oxids of nitrogen from the air, Producing. F. I. Du Pont. No. 948,372; Feb. 8; Sp. p. 1247; Gaz. vol. 151; p. 225.
Oxygen-administering tank. G. von Ach. No. 946,307; Jan. 11; Sp. p. 2859; Gaz. vol. 150; p. 474.
Oxygen, Apparatus for making. C. Ridley. No. 945,048; Jan. 4; Sp. p. 84; Gaz. vol. 150; p. 15.
Oxygen-bath. O. B. May. No. 969,073; Aug. 30; Sp. p. 6880; Gaz. vol. 157; p. 1197.
Oxygen, Briquet for making. G. F. Jaubert. No. 965,631; July 26; Sp. p. 5712; Gaz. vol. 156; p. 971.
Oxygen from vessels, Removing. R. Hopfelt. No. 975,040; Nov. 8; Sp. p. 2191; Gaz. vol. 160; p. 356.
Oxygen, Generating. A. Beltzer. No. 968,528; Aug. 30; Sp. p. 5734; Gaz. vol. 157; p. 1010.
Oxygen-generator. M. S. Clawson. No. 964,492; July 19; Sp. p. 3157; Gaz. vol. 156; p. 549.
Oxygen, Making briquets for producing. G. F. Jaubert. No. 965,630; July 26; Sp. p. 5710; Gaz. vol. 156; p. 970.
Oyster-carrier. M. S. Smith. No. 954,769; Apr. 12; Sp. p. 2331; Gaz. vol. 153; p. 403.
Oyster-opener. A. F. W. Diamond. No. 956,049; Apr. 26; Sp. p. 5106; Gaz. vol. 153; p. 901.
Oyster-opening machine. F. S. Clarkson. No. 969,246; Sept. 6; Sp. p. 210; Gaz. vol. 158; p. 35.
Ozone-generator. R. W. Rice. No. 950,347; Feb. 22; Sp. p. 5434; Gaz. vol. 151; p. 952.
Ozone-generator. F. M. Ashley. No. 951,789; Mar. 15; Sp. p. 2709; Gaz. vol. 152; p. 495.
Ozonifying apparatus. C. S. Bradley. No. 971,244; Sept. 27; Sp. p. 4489; Gaz. vol. 158; p. 785.
Ozonizer. O. Linder. No. 951,443; Mar. 8; Sp. p. 1993; Gaz. vol. 152; p. 347.
Ozonizer. A. Lohman. No. 955,818; Apr. 19; Sp. p. 4585; Gaz. vol. 153; p. 792.
Ozonizer. O. Linder. No. 969,547; Sept. 6; Sp. p. 853; Gaz. vol. 158; p. 135.
Ozonizer. D. S. Henney. No. 974,789; Nov. 8; Sp. p. 1611; Gaz. vol. 160; p. 271.
Ozonizer. R. D. Small. No. 978,786; Dec. 13; Sp. p. 2953; Gaz. vol. 161; p. 499.
Pack-opening apparatus. A. R. McArthur. No. 976,895; Nov. 29; Sp. p. 6193; Gaz. vol. 160; p. 1066.
Package. J. S. Ferguson. No. 948,503; Feb. 8; Sp. p. 1528; Gaz. vol. 151; p. 269.
Package. J. H. Boye. No. 948,645; Feb. 8; Sp. p. 1837; Gaz. vol. 151; p. 316.
Package. W. S. Mellen. No. 963,719; July 5; Sp. p. 1517; Gaz. vol. 156; p. 236.
Package and toy, Combined. F. Gardner. No. 975,227; Nov. 8; Sp. p. 2605; Gaz. vol. 160; p. 421.
Package-binder. I. Olson. No. 978,632; Dec. 13; Sp. p. 2651; Gaz. vol. 161; p. 450.
Package, Carboy-. A. G. Cox. No. 950,093; Feb. 22; Sp. p. 4921; Gaz. vol. 151; p. 866.
Package-carriers, Safety locking mechanism for. L. B. Bethards. No. 955,628; Apr. 19; Sp. p. 4172; Gaz. vol. 153; p. 727.
Package-coating machine. D. L. Clark and W. C. Gillies. No. 950,369; Feb. 22; Sp. p. 5470; Gaz. vol. 151; p. 959.
Package cord-retainer. M. Schmidt. No. 959,396; May 24; Sp. p. 6423; Gaz. vol. 154; p. 1074.
Package-filler. F. Kiely. No. 969,376; Sept. 6; Sp. p. 489; Gaz. vol. 158; p. 78.
Package-filling machine. W. H. Doble. No. 954,722; Apr. 12; Sp. p. 2209; Gaz. vol. 153; p. 385.
Package for playing-cards. S. S. Sanguinette. No. 945,868; Jan. 11; Sp. p. 1925; Gaz. vol. 150; p. 320.
Package-forming machine. J. P. Wright. No. 966,508; Aug. 9; Sp. p. 1446; Gaz. vol. 157; p. 249.
Package-holder. P. R. Parmley. No. 956,157; Apr. 26; Sp. p. 5351; Gaz. vol. 153; p. 940.
Package-holder. F. Goble. No. 957,767; May 10; Sp. p. 2687; Gaz. vol. 154; p. 462.
Package-lining. F. S. Davis. No. 956,046; Apr. 26; Sp. p. 5102; Gaz. vol. 153; p. 900.
Package, Merchandise-. H. N. Mann. No. 961,873; June 21; Sp. p. 3406; Gaz. vol. 155; p. 602.
Package-protector. A. Griesbeck. No. 969,950; Sept. 13; Sp. p. 1741; Gaz. vol. 158; p. 299.
Package, Shipping-. J. M. Alderfer. No. 960,766; June 7; Sp. p. 1072; Gaz. vol. 155; p. 180.
Package-tie. M. A. Bailey. No. 961,833; June 21; Sp. p. 3304; Gaz. vol. 155; p. 589.
Package-tie. A. H. Fleming. No. 963,884; July 12; Sp. p. 1920; Gaz. vol. 156; p. 315.
Packaging-machine. R. Hoyt. No. 952,331; Mar. 15; Sp. p. 3769; Gaz. vol. 152; p. 675.
Packer-platform. D. Page. No. 969,490; Sept. 6; Sp. p. 720; Gaz. vol. 158; p. 114.
Packeting-machine. E. T. Pollard. No. 956,167; Apr. 26; Sp. p. 5376; Gaz. vol. 153; p. 944.
Packeting-machine. C. S. Nyberg. No. 965,317; July 26; Sp. p. 5000; Gaz. vol. 156; p. 861.
Packing. L. Katzenstein. No. 945,039; Jan. 4; Sp. p. 65; Gaz. vol. 150; p. 12.
Packing. D. F. Stayman. No. 950,519; Mar. 1; Sp. p. 127; Gaz. vol. 152; p. 21.
Packing. H. Brousseau. No. 951,175; Mar. 8; Sp. p. 1438; Gaz. vol. 152; p. 261.
Packing. G. F. Miller. No. 951,827; Mar. 15; Sp. p. 2769; Gaz. vol. 152; p. 507.

Alphabetical list of inventions—Continued.

Packing. E. W. Snyder. No. 954,655; Apr. 12; Sp. p. 2064; Gaz. vol. 153; p. 362.
Packing. J. Crane. No. 956,042; Apr. 26; Sp. p. 5092; Gaz. vol. 153; p. 899.
Packing. W. F. J. Lutz and H. D. Bartlett. No. 961,872; June 21; Sp. p. 3404; Gaz. vol. 155; p. 602.
Packing. L. Katzenstein. No. 966,922; Aug. 9; Sp. p. 2364; Gaz. vol. 157; p. 387.
Packing. H. W. Ramberg. No. 967,235; Aug. 16; Sp. p. 3018; Gaz. vol. 157; p. 522.
Packing. J. C. Kingsbury. No. 967,392; Aug. 16; Sp. p. 3344; Gaz. vol. 157; p. 577.
Packing. F. Hodgkinson. No. 969,869; Sept. 13; Sp. p. 1574; Gaz. vol. 158; p. 271.
Packing. A. L. Cole. No. 972,680; Oct. 11; Sp. p. 2543; Gaz. vol. 159; p. 433.
Packing. H. Brousseau. No. 974,949; Nov. 8; Sp. p. 1982; Gaz. vol. 160; p. 326.
Packing. M. Rotter. No. 978,399; Dec. 13; Sp. p. 2128; Gaz. vol. 161; p. 370.
Packing and display case, Combination. E. B. Rogers. No. 964,556; July 19; Sp. p. 3342; Gaz. vol. 156; p. 571.
Packing, Automatic spring-. A. P. Sundt. No. 963,406; July 5; Sp. p. 894; Gaz. vol. 156; p. 132.
Packing-box. W. L. Cook. No. 946,017; Jan. 11; Sp. p. 2240; Gaz. vol. 150; p. 372.
Packing-box. J. Wahl. No. 972,586; Oct. 11; Sp. p. 2352; Gaz. vol. 159; p. 402.
Packing-box and wrapper, Combined. N. J. Goodman. No. 953,135; Mar. 29; Sp. p. 5506; Gaz. vol. 152; p. 1004.
Packing-case. A. G. Sherman. No. 946,278; Jan. 11; Sp. p. 2787; Gaz. vol. 150; p. 464.
Packing-case. A. T. Kruse. No. 975,962; Nov. 15; Sp. p. 4129; Gaz. vol. 160; p. 698.
Packing-case and the like. D. Oppenheimer. No. 945,582; Jan. 4; Sp. p. 1239; Gaz. vol. 150; p. 192.
Packing device. T. R. Evans and L. W. Young. No. 959,489; May 31; Sp. p. 6640; Gaz. vol. 154; p. 1132.
Packing for annealing and other like apparatus, Fusible. W. R. Kinnear. No. 958,409; May 17; Sp. p. 4386; Gaz. vol. 154; p. 716.
Packing for cylinder-molds. H. Parker. No. 958,275; May 17; Sp. p. 3966; Gaz. vol. 154; p. 668.
Packing for elevators, Plunger-. J. C. Phelps. No. 962,585; June 28; Sp. p. 4970; Gaz. vol. 155; p. 870.
Packing for fluid-engines. W. F. Purcell. No. 973,972; Oct. 25; Sp. p. 5350; Gaz. vol. 159; p. 931.
Packing for grinding-mills. T. W. Capen. No. 945,303; Jan. 4; Sp. p. 646; Gaz. vol. 150; p. 101.
Packing for metal cannulas or the like. C. F. Dewitt. No. 964,406; July 12; Sp. p. 2967; Gaz. vol. 156; p. 490.
Packing for piston-rods, &c., Metallic. G. D. Rollins. No. 979,206; Dec. 20; Sp. p. 3888; Gaz. vol. 161; p. 672.
Packing for pistons and the like. G. A. Pearse, Jr. No. 951,333; Mar. 8; Sp. p. 1769; Gaz. vol. 152; p. 311.
Packing for steam-turbines. G. Huhn. No. 976,369; Nov. 22; Sp. p. 5064; Gaz. vol. 160; p. 860.
Packing for stuffing-boxes. O. Lingner. No. 945,790; Jan. 11; Sp. p. 1739; Gaz. vol. 150; p. 292.
Packing gland or collar. J. Naëder. No. 968,390; Aug. 23; Sp. p. 5437; Gaz. vol. 157; p. 938.
Packing, Hollow shaft-. H. Gray and J. A. Kenyon. No. 955,867; Apr. 26; Sp. p. 4720; Gaz. vol. 153; p. 838.
Packing, Metallic. F. Henneböhle. No. 945,458; Jan. 4; Sp. p. 961; Gaz. vol. 150; p. 151.
Packing, Metallic. W. H. Law. No. 954,195; Apr. 5; Sp. p. 1056; Gaz. vol. 153; p. 179.
Packing, Metallic. E. Passono. No. 954,203; Apr. 5; Sp. p. 1077; Gaz. vol. 153; p. 182.
Packing, Metallic. W. B. Claflin. No. 965,688; July 26; Sp. p. 5824; Gaz. vol. 156; p. 990.
Packing, Metallic rod-. C. L. Trapp and O. C. Gehrman. No. 965,255; July 26; Sp. p. 4860; Gaz. vol. 156; p. 839.
Packing, Metallic rod-. J. Badeker. No. 975,313; Nov. 8; Sp. p. 2788; Gaz. vol. 160; p. 450.
Packing or shipping box. J. T. Ferres. No. 974,871; Nov. 8; Sp. p. 1798; Gaz. vol. 160; p. 298.
Packing-pad. H. J. Blocki. No. 969,451; Sept. 6; Sp. p. 628; Gaz. vol. 158; p. 100.
Packing-pad-forming machine. A. C. Peterson. No. 951,841; Mar. 15; Sp. p. 2808; Gaz. vol. 152; p. 512.
Packing-pad machine. A. C. Peterson. No. 951,840; Mar. 15; Sp. p. 2804; Gaz. vol. 152; p. 512.
Packing, Piston-. C. E. Ross. No. 961,373; June 14; Sp. p. 2332; Gaz. vol. 155; p. 412.
Packing, Piston-. J. Dittrich. No. 971,978; Oct. 4; Sp. p. 1041; Gaz. vol. 159; p. 174.
Packing, Piston-. H. S. Studdert. No. 976,007; Nov. 15; Sp. p. 4212; Gaz. vol. 160; p. 713.
Packing, Piston-. R. A. Fowden. No. 976,563; Nov. 22; Sp. p. 5491; Gaz. vol. 160; p. 928.
Packing, Piston and rod. A. W. France. No. 945,030; Jan. 4; Sp. p. 44; Gaz. vol. 150; p. 9.
Packing, Piston-rod. A. W. France. No. 945,031; Jan. 4; Sp. p. 47; Gaz. vol. 150; p. 9.
Packing, Piston-rod. J. S. Pendleton. No. 963,645; July 5; Sp. p. 1370; Gaz. vol. 156; p. 213.
Packing, Piston-rod. F. N. Mason. No. 971,292; Sept. 27; Sp. p. 4569; Gaz. vol. 158; p. 800.
Packing, Piston-rod. G. F. Royer and L. F. Zweibel. No. 977,477; Dec. 6; Sp. p. 112; Gaz. vol. 161; p. 20.
Packing-ring. L. E. McQuay and W. K. Norris. No. 948,518; Feb. 8; Sp. p. 1561; Gaz. vol. 151; p. 275.
Packing-ring. W. T. Mills. No. 955,527; Apr. 19; Sp. p. 3946; Gaz. vol. 153; p. 692.
Packing-ring. C. E. Drown. No. 962,820; June 28; Sp. p. 5445; Gaz. vol. 155; p. 952.
Packing-ring for shaftings. C. G. Cunningham. No. 951,435; Mar. 8; Sp. p. 1981; Gaz. vol. 152; p. 344.
Packing-ring, Piston. W. M. Leighton. No. 953,627; Mar. 29; Sp. p. 6553; Gaz. vol. 152; p. 1170.
Packing-ring, Piston. J. J. Redner. No. 953,713; Apr. 5; Sp. p. 59; Gaz. vol. 153; p. 14.
Packing, Rod-. E. J. Armstrong. No. 946,001; Jan. 11; Sp. p. 2213; Gaz. vol. 150; p. 367.
Packing, Rod-. P. Dorsey. No. 947,889; Feb. 1; Sp. p. 241; Gaz. vol. 151; p. 39.
Packing, Rod-. T. A. Johnston and T. L. Finley. No. 948,610; Feb. 8; Sp. p. 1754; Gaz. vol. 151; p. 303.
Packing, Rod-. E. E. Switzer. No. 952,769; Mar. 22; Sp. p. 4727; Gaz. vol. 152; p. 853.
Packing, Rod-. T. A. Johnston. No. 953,271; Mar. 29; Sp. p. 5792; Gaz. vol. 152; p. 1048.
Packing, Rod-. A. D. Morris. No. 955,662; Apr. 19; Sp. p. 4268; Gaz. vol. 153; p. 738.
Packing, Rod-. P. Dorsey. No. 969,255; Sept. 6; Sp. p. 227; Gaz. vol. 158; p. 37.
Packing, Rod-. T. Smith. No. 974,197; Nov. 1; Sp. p. 207; Gaz. vol. 160; p. 35.
Packing, Shaft-. W. Kieser. No. 951,374; Mar. 8; Sp. p. 1859; Gaz. vol. 152; p. 324.
Packing, Shaft-. G. C. Hicks, Jr. No. 955,332; Apr. 19; Sp. p. 3536; Gaz. vol. 153; p. 625.
Packing, Shaft-. C. Comstock. No. 961,484; June 14; Sp. p. 2569; Gaz. vol. 155; p. 448.
Packing, Shaft-. J. J. Boucher. No. 973,850; Oct. 25; Sp. p. 5109; Gaz. vol. 159; p. 887.
Packing-tool. E. P. Strode. No. 973,146; Oct. 18; Sp. p. 3607; Gaz. vol. 159; p. 622.
Packing-tube, Compressible. E. M. Dalley. No. 962,008; June 21; Sp. p. 3677; Gaz. vol. 155; p. 646.
Packing, Turbine-. R. A. McKee. No. 965,399; July 26; Sp. p. 5175; Gaz. vol. 156; p. 888.
Pad: *See* Check-pad; Collar-pad; Collar neck-pad; Desk-pad; Gas-check pad; Harness back-pad; Hoof-pad; Ink-pad; Manifolding-pad; Medicated pad; Packing-pad; Shoulder resistance-pad; Sketch-pad; Table-pad; Truss-pad.
Pad. W. H. Fox. No. 967,750; Aug. 16; Sp. p. 4070; Gaz. vol. 157; p. 696.
Pad-forming machine. A. L. Dutilleul. No. 965,378; July 26; Sp. p. 5133; Gaz. vol. 156; p. 880.
Pad-holder. C. Medendorp. No. 953,631; Mar. 29; Sp. p. 6563; Gaz. vol. 152; p. 1172.
Pad-holder. L. A. Lahey. No. 956,534; May 3; Sp. p. 55; Gaz. vol. 154; p. 12.
Pad-holder. W. E. Dunning. No. 969,775; Sept. 13; Sp. p. 1358; Gaz. vol. 158; p. 238.
Pad-holder. E. H. Nelson. No. 972,709; Oct. 11; Sp. p. 2607; Gaz. vol. 159; p. 443.
Pad-stuffing machine. C. W. Miles. No. 953,174; Mar. 29; Sp. p. 5583; Gaz. vol. 152; p. 1017.
Paddle. J. Háry. No. 948,856; Feb. 8; Sp. p. 2276; Gaz. vol. 151; p. 387.
Paddle-wheel. H. Dusek. No. 949,887; Feb. 22; Sp. p. 4445; Gaz. vol. 151; p. 794.
Padlock. F. Soley. No. 945,628; Jan. 4; Sp. p. 1334; Gaz. vol. 150; p. 207.
Padlock. W. A. Shanks. No. 953,556; Mar. 29; Sp. p. 6404; Gaz. vol. 152; p. 1147.
Padlock. B. J. Greer. No. 954,795; Apr. 12; Sp. p. 2382; Gaz. vol. 153; p. 411.
Padlock. J. Dembinski. No. 954,856; Apr. 12; Sp. p. 2545; Gaz. vol. 153; p. 434.
Padlock. C. D. Weeks. No. 956,007; Apr. 26; Sp. p. 5019; Gaz. vol. 153; p. 887.
Padlock. F. Soley. No. 956,212; Apr. 26; Sp. p. 5493; Gaz. vol. 153; p. 959.
Padlock. F. Soley. No. 956,213; Apr. 26; Sp. p. 5496; Gaz. vol. 153; p. 959.
Padlock. A. M. H. De Bruycker. No. 957,033; May 3; Sp. p. 1155; Gaz. vol. 154; p. 183.
Padlock. A. Nerhaft. No. 957,705; May 10; Sp. p. 2555; Gaz. vol. 154; p. 442.
Padlock. J. Kuczyński. No. 962,087; June 21; Sp. p. 3858; Gaz. vol. 155; p. 675.
Padlock. J. K. Oross. No. 963,466; July 5; Sp. p. 1009; Gaz. vol. 156; p. 152.
Padlock. T. Remlinger. No. 971,406; Sept. 27; Sp. p. 4785; Gaz. vol. 158; p. 837.
Padlock. G. M. Miller and S. R. Slaymaker. No. 973,538; Oct. 25; Sp. p. 4461; Gaz. vol. 159; p. 779.
Padlock. F. Soley. No. 977,337; Nov. 29; Sp. p. 7175; Gaz. vol. 160; p. 1220.
Padlock. J. Ranyak. No. 978,206; Dec. 13; Sp. p. 1716; Gaz. vol. 161; p. 301.
Padlock and staple or hasp therefor. R. B. Reeves. No. 972,643; Oct. 11; Sp. p. 2478; Gaz. vol. 159; p. 422.
Padlock, Combination-. L. L. Kellogg. No. 947,994; Feb. 1; Sp. p. 444; Gaz. vol. 151; p. 72.

Padlock, Combination-. L. Rosen. No. 948,251; Feb. 1; Sp. p. 963; Gaz. vol. 151; p. 158.
Padlock, Combination-. W. Trierweiler. No. 967,466; Aug. 16; Sp. p. 3479; Gaz. vol. 157; p. 600.
Padlock, Combination-. L. H. Dupont. No. 972,171; Oct. 11; Sp. p. 1437; Gaz. vol. 159; p. 257.
Padlock, Keyless. G. W. Eddy. No. 970,481; Sept. 20; Sp. p. 2853; Gaz. vol. 158; p. 498.
Padlock, Permutation-. F. E. Bennett. No. 978,831; Dec. 20; Sp. p. 3032; Gaz. vol. 161; p. 539.
Padlock, Pivotal-shackle permutation-. J. A. Simisky. No. 970,856; Sept. 20; Sp. p. 3688; Gaz. vol. 158; p. 630.
Padlock, Pneumatic. F. J. Gilroy. No. 948,853; Feb. 8; Sp. p. 2272; Gaz. vol. 151; p. 386.
Padlock, Seal-. B. R. Draudt. No. 964,094; July 12; Sp. p. 2356; Gaz. vol. 156; p. 387.
Page-marker and music-leaf turner. L. F. Suddick. No. 957,447; May 10; Sp. p. 2041; Gaz. vol. 154; p. 354.
Pail, Dinner-. A. W. Brown. No. 945,302; Jan. 4; Sp. p. 644; Gaz. vol. 150; p. 100.
Pail, Dinner-. A. J. Kieckhefer. No. 945,724; Jan. 4; Sp. p. 1554; Gaz. vol. 150; p. 240.
Pail, Dinner-. D. H. Morrell. No. 963,621; July 5; Sp. p. 1322; Gaz. vol. 156; p. 204.
Pail, Dinner-. S. F. Sultzbaugh. No. 966,264; Aug. 2; Sp. p. 894; Gaz. vol. 157; p. 143.
Pail-holder. J. Weinberg. No. 956,557; May 3; Sp. p. 106; Gaz. vol. 154; p. 19.
Pail-holder. C. S. Sick. No. 978,666; Dec. 13; Sp. p. 2713; Gaz. vol. 161; p. 462.
Pail holder, Milk-. R. J. Ruble. No. 975,288; Nov. 8; Sp. p. 2726; Gaz. vol. 160; p. 441.
Pail holder, Milk-. E. and C. L. Moore. No. 976,276; Nov. 22; Sp. p. 4865; Gaz. vol. 160; p. 830.
Pail holder, Milk-. E. W. Rose. No. 976,498; Nov. 22; Sp. p. 5346; Gaz. vol. 160; p. 907.
Pail, Lunch-. S. Edwards. No. 971,735; Oct. 4; Sp. p. 479; Gaz. vol. 159; p. 83.
Pail, Milk-. J. D. Perry. No. 959,590; May 31; Sp. p. 6853; Gaz. vol. 154; p. 1166.
Pail, Milk-. S. E. Crall. No. 963,873; July 12; Sp. p. 1899; Gaz. vol. 156; p. 312.
Pail, Milk-. W. P. Schanck. No. 978,401; Dec. 13; Sp. p. 2131; Gaz. vol. 161; p. 371.
Pail, Milking-. F. H. Newlove. No. 954,129; Apr. 5; Sp. p. 894; Gaz. vol. 153; p. 155.
Pail, Oyster-. W. Heyser. No. 971,998; Oct. 4; Sp. p. 1080; Gaz. vol. 159; p. 181.
Pail, Sanitary dairy-. U. A. Towns. No. 972,295; Oct. 11; Sp. p. 1705; Gaz. vol. 159; p. 300.
Pail, Sanitary milking-. T. W. Hankins. No. 970,816; Sept. 20; Sp. p. 3614; Gaz. vol. 158; p. 617.
Pail-tilting device. E. Goeke. No. 950,444; Feb. 22; Sp. p. 5612; Gaz. vol. 151; p. 984.
Paint. O. Marchand. No. 956,389; Apr. 26; Sp. p. 5857; Gaz. vol. 153; p. 1018.
Paint. O. Marchand. No. 956,390; Apr. 26; Sp. p. 5859; Gaz. vol. 153; p. 1019.
Paint and making the same. J. Meurant. No. 963,917; July 12; Sp. p. 1983; Gaz. vol. 156; p. 326.
Paint and varnish, Antifouling. W. Schoeller and W. Schrauth. No. 967,841; Aug. 16; Sp. p. 4246; Gaz. vol. 157; p. 726.
Paint and varnish, Antifouling. W. Schoeller and W. Schrauth. No. 967,842; Aug. 16; Sp. p. 4247; Gaz. vol. 157; p. 726.
Paint and varnish remover. M. Daxe. No. 948,814; Feb. 8; Sp. p. 2200; Gaz. vol. 151; p. 373.
Paint and varnish remover. P. J. Geller. No. 951,369; Mar. 8; Sp. p. 1849; Gaz. vol. 152; p. 323.
Paint and varnish removing apparatus. C. J. Fess. No. 945,505; Jan. 4; Sp. p. 1077; Gaz. vol. 150; p. 167.
Paint-barrels and the like, Agitator or stirrer for. F. B. Stockmann. No. 972,727; Oct. 11; Sp. p. 2648; Gaz. vol. 159; p. 450.
Paint composition. N. B. Arnold. No. 952,863; Mar. 22; Sp. p. 4919; Gaz. vol. 152; p. 885.
Paint, Fireproof. M. S. Watt. No. 959,663; May 31; Sp. p. 6991; Gaz. vol. 154; p. 1190.
Paint, Fireproof and waterproof. J. J. Barnes. No. 965,619; July 26; Sp. p. 5686; Gaz. vol. 156; p. 967.
Paint-mixing device. J. C. Thompson. No. 953,070; Mar. 29; Sp. p. 5346; Gaz. vol. 152; p. 983.
Paint or composition, Waterproofing and preservative. L. Schott. No. 966,366; Aug. 2; Sp. p. 1084; Gaz. vol. 157; p. 174.
Paint or varnish remover. C. Ellis. No. 956,320; Apr. 26; Sp. p. 5722; Gaz. vol. 153; p. 996.
Paint or varnish remover. C. Ellis. No. 979,136; Dec. 20; Sp. p. 3748; Gaz. vol. 161; p. 649.
Paint package, Semisolid-. L. Reusche. No. 975,718; Nov. 15; Sp. p. 3642; Gaz. vol. 160; p. 613.
Painted articles, Guard for. C. M. Haeske. No. 945,161; Jan. 4; Sp. p. 320; Gaz. vol. 150; p. 54.
Painter's extension-plank. J. Riikonen. No. 968,805; Aug. 30; Sp. p. 6345; Gaz. vol. 157; p. 1106.
Painting apparatus. H. Du Brau. No. 957,501; May 10; Sp. p. 2149; Gaz. vol. 154; p. 372.
Painting appliance. R. D. Kinyon. No. 973,356; Oct. 18; Sp. p. 4059; Gaz. vol. 159; p. 695.
Painting-machine. P. R. Buchwald. No. 951,386; Mar. 8; Sp. p. 1882; Gaz. vol. 152; p. 328.
Painting-machine. H. Mikorey. No. 955,344; Apr. 19; Sp. p. 3561; Gaz. vol. 153; p. 629.
Painting machine. Barrel-. J. Phillips. No. 977,966; Dec. 6; Sp. p. 1188; Gaz. vol. 161; p. 189.
Painting-machine, Dip. C. Vallone and F. R. Rogers. No. 980,030; Dec. 27; Sp. p. 5649; Gaz. vol. 161; p. 973.
Pallet setting and adjusting tool. L. E. Garnett. No. 956,956; May 3; Sp. p. 998; Gaz. vol. 154; p. 157.
Pan: *See* Ash-pan; Baking-pan; Bed-pan; Bed and douche pan; Dish-pan; Drip-pan; Dry-pan; Dust-pan; Feed-pan; Locomotive ash-pan; Refrigerator drip-pan; Roasting-pan; Surgeon's operating-pan; Toasting and broiling pan; Vacuum-pan.
Pan. P. C. Howland. No. 948,994; Feb. 15; Sp. p. 2556; Gaz. vol. 151; p. 460.
Pan and plate lifter. G. C. Degner. No. 949,650; Feb. 15; Sp. p. 3895; Gaz. vol. 151; p. 678.
Pan and plate lifter. W. W. Shirley. No. 972,933; Oct. 18; Sp. p. 3144; Gaz. vol. 159; p. 549.
Pan-handle. A. Hansen. No. 978,741; Dec. 13; Sp. p. 2870; Gaz. vol. 161; p. 486.
Pan-lifter. W. A. Stang. No. 946,568; Jan. 18; Sp. p. 3489; Gaz. vol. 150; p. 587.
Pan-lifter. D. O. and A. R. Henry. No. 949,573; Feb. 15; Sp. p. 3761; Gaz. vol. 151; p. 654.
Pan-lifter. R. Ray. No. 950,189; Feb. 22; Sp. p. 5119; Gaz. vol. 151; p. 898.
Pan-lifter. S. R. Kelly. No. 963,774; July 12; Sp. p. 1653; Gaz. vol. 156; p. 278.
Pan-lifter. I. Key. No. 968,956; Aug. 30; Sp. p. 6644; Gaz. vol. 157; p. 1157.
Pan-scraper. G. M. Bates. No. 975,599; Nov. 15; Sp. p. 3382; Gaz. vol. 160; p. 574.
Pans, Dies for making. E. Katzinger. No. 972,113; Oct. 4; Sp. p. 1295; Gaz. vol. 159; p. 219.
Panel-board. L. C. Reed. No. 956,419; Apr. 26; Sp. p. 5912; Gaz. vol. 153; p. 1028.
Panel-board. E. N. Lake and J. Cuthbert. No. 959,762; May 31; Sp. p. 7200; Gaz. vol. 154; p. 1222.
Panel-board. R. H. Olley. No. 977,123; Nov. 29; Sp. p. 6736; Gaz. vol. 160; p. 1147.
Panel-board cut-out and distributing mechanism. R. H. Olley. No. 970,741; Sept. 20; Sp. p. 3431; Gaz. vol. 158; p. 588.
Panel construction. H. C. Bumpus. No. 952,506; Mar. 22; Sp. p. 4132; Gaz. vol. 152; p. 761.
Panel construction. D. E. Hunter. No. 969,163; Sept. 6; Sp. p. 23; Gaz. vol. 158; p. 7.
Panic-bolt. A. Arens and E. L. Teich. No. 961,092; June 14; Sp. p. 1729; Gaz. vol. 155; p. 314.
Panic-bolt with adjustment between toggle and bolt. H. G. Voight. No. 961,327; June 14; Sp. p. 2248; Gaz. vol. 155; p. 396.
Pantographic pyrograph. W. B. Foster. No. 978,012; Dec. 6; Sp. p. 1270; Gaz. vol. 161; p. 204.
Paper and grooving same. W. E. Ramage and H. D. Shaw. No. 958,174; May 17; Sp. p. 3763; Gaz. vol. 154; p. 636.
Paper and holder therefor, Toilet-seat. C. W. Giblyn and G. E. Gardner. No. 965,515; July 26; Sp. p. 5444; Gaz. vol. 156; p. 929.
Paper and other substances, Decorative treatment of. H. C. Mitchell. No. 947,973; Feb. 1; Sp. p. 411; Gaz. vol. 151; p. 65.
Paper and pulp machine, Multiple-color. H. Parker. No. 973,965; Oct. 25; Sp. p. 5339; Gaz. vol. 159; p. 928.
Paper and the like, Machine for fastening. F. H. Crabtree and A. G. McGregor. No. 961,213; June 14; Sp. p. 1975; Gaz. vol. 155; p. 357.
Paper bag. M. Vierengel. No. 955,564; Apr. 19; Sp. p. 4018; Gaz. vol. 153; p. 704.
Paper bag. H. W. Stuart. No. 955,998; Apr. 26; Sp. p. 5000; Gaz. vol. 153; p. 884.
Paper-bag holder. J. W. Dunnigan. No. 950,380; Feb. 22; Sp. p. 5496; Gaz. vol. 151; p. 962.
Paper-bag holder. P. Joiner. No. 955,883; Apr. 26; Sp. p. 4767; Gaz. vol. 153; p. 844.
Paper-bag holder. H. L. Snyder. No. 962,676; June 28; Sp. p. 5147; Gaz. vol. 155; p. 900.
Paper-bag holder. D. R. Holmes and R. B. Crozier. No. 969,626; Sept. 6; Sp. p. 1014; Gaz. vol. 158; p. 162.
Paper-bag machine. D. Appel. No. 945,485; Jan. 4; Sp. p. 1021; Gaz. vol. 150; p. 160.
Paper-bag machine. J. Rogers. No. 945,731; Jan. 4; Sp. p. 1576; Gaz. vol. 150; p. 242.
Paper-bag machine. F. E. Strasburg. No. 945,944; Jan. 11; Sp. p. 2091; Gaz. vol. 150; p. 348.
Paper-bag machine. W. C. Fuller. No. 949,468; Feb. 15; Sp. p. 3543; Gaz. vol. 151; p. 618.
Paper-bag machine. W. C. Fuller. No. 949,469; Feb. 15; Sp. p. 3552; Gaz. vol. 151; p. 619.
Paper-bag machine. M. Vierengel and J. Sofge. No. 958,844; May 24; Sp. p. 5287; Gaz. vol. 154; p. 891.
Paper-bag machine. J. Merritt. No. 960,664; June 7; Sp. p. 869; Gaz. vol. 155; p. 143.
Paper-bag machine. A. L. Parrish. No. 974,704; Nov. 1; Sp. p. 1421; Gaz. vol. 160; p. 220.
Paper-bag machine. C. Holweg. No. 977,801; Dec. 6; Sp. p. 832; Gaz. vol. 161; p. 130.

Alphabetical list of inventions—Continued.

Paper-bag-making machine. M. L. Hirsch and M. H. Eichberg. No. 946,967; Jan. 18; Sp. p. 4392; Gaz. vol. 150; p. 722.
Paper bag or sack. T. E. Chapman. No. 956,941; May 3; Sp. p. 948; Gaz. vol. 154; p. 151.
Paper bags and for packeting tobacco and other materials, Machine for making. E. L. Bracy. No. 956,623; May 3; Sp. p. 248; Gaz. vol. 154; p. 42.
Paper bags, Machine for making block. A. Henderson. No. 952,075; Mar. 15; Sp. p. 3266; Gaz. vol. 152; p. 589.
Paper bags, Making A. L. Parrish. No. 971,780; Oct. 4; Sp. p. 566; Gaz. vol. 159; p. 99.
Paper bags or the like, Rack for. J. J. Caylor. No. 948,604; Feb. 8; Sp. p. 1744; Gaz. vol. 151; p. 301.
Paper bags, Suspending-holder for. A. Galli. No. 960,886; June 7; Sp. p. 1302; Gaz. vol. 155; p. 218.
Paper bands, Apparatus for producing combination of holes in. E. Ehrhardt. No. 946,024; Jan. 11; Sp. p. 2252; Gaz. vol. 150; p. 374.
Paper blanks, Machine for separating and feeding. F. C. Graves and A. F. Olin. No. 965,889; Aug. 2; Sp. p. 94; Gaz. vol. 157; p. 16.
Paper-block-making machine. F. Stephan. No. 968,091; Aug. 23; Sp. p. 4799; Gaz. vol. 157; p. 834.
Paper-board machine, Corrugated-. J. H. McPike. No. 972,120; Oct. 4; Sp. p. 1304; Gaz. vol. 159; p. 221.
Paper-board machine, Corrugated-. J. H. and H. G. McPike, Jr., and H. B. Harlow. No. 972,121; Oct. 4; Sp. p. 1306; Gaz. vol. 159; p. 221.
Paper bottle. C. F. Jenkins. No. 949,036; Feb. 15; Sp. p. 2659; Gaz. vol. 151; p. 474.
Paper-bottle-making apparatus. C. F. Jenkins. No. 960,226; May 31; Sp. p. 8213; Gaz. vol. 154; p. 1382.
Paper box. D. L. Block. No. 954,414; Apr. 12; Sp. p. 1523; Gaz. vol. 153; p. 279.
Paper box. J. G. Reber. No. 956,418; Apr. 26; Sp. p. 5910; Gaz. vol. 153; p. 1028.
Paper box. C. O. Mason. No. 963,452; July 5; Sp. p. 982; Gaz. vol. 156; p. 148.
Paper box. H. L. R. Wolf. No. 977,770; Dec. 6; Sp. p. 774; Gaz. vol. 161; p. 120.
Paper box and fastener. W. S. Matthews. No. 961,784; June 21; Sp. p. 3188; Gaz. vol. 155; p. 572.
Paper-box-blank-making machine. F. P. Vavra. No. 972,300; Oct. 11; Sp. p. 1717; Gaz. vol. 159; p. 301.
Paper-box blanks, Piecing-machine for. C. W. Hobbs. No. 966,834; Aug. 9; Sp. p. 2178; Gaz. vol. 157; p. 358.
Paper-box-covering machines, Form for. C. G. Wyatt. No. 972,974; Oct. 18; Sp. p. 3236; Gaz. vol. 159; p. 562.
Paper-box machine. O. R Hincher and A. J. Morrison. No. 964,645; July 19; Sp. p. 3521; Gaz. vol. 156; p. 602.
Paper-box machinery. C. F. Jenkins. No. 972,767; Oct. 11; Sp. p. 2724; Gaz. vol. 159; p. 463.
Paper-box-making appliance. G. N. Coryell. No. 956,486; Apr. 26; Sp. p. 6078; Gaz. vol. 153; p. 1052.
Paper-box-making machine. E. H. Taylor. No. 966,618; Aug. 9; Sp. p. 1676; Gaz. vol. 157; p. 287.
Paper cap. P. J. Delzeit, Jr. No. 968,922; Aug. 30; Sp. p. 6579; Gaz. vol. 157; p. 1145.
Paper-carriage. J. Raber. No. 973,700; Oct. 25; Sp. p. 4808; Gaz. vol. 159; p. 836.
Paper-clip. A. W. Brown. No. 951,052; Mar. 1; Sp. p. 1194; Gaz. vol. 152; p. 195.
Paper-clip. D. G. Galbraith. No. 957,764; May 10; Sp. p. 2681; Gaz. vol. 154; p. 461.
Paper-clip. V. C. de Ybarrondo. No. 966,287; Aug. 2; Sp. p. 943; Gaz. vol. 157; p. 150.
Paper-clip. G. W. Hylkema. No. 969,700; Sept. 6; Sp. p. 1157; Gaz. vol. 158; p. 187.
Paper coating and sizing composition and process. H. V. Dunham. No. 962,498; June 28; Sp. p. 4771; Gaz. vol. 155; p. 840.
Paper-coating machine. C. F. and M. V. Pease and H. C. Gawler. No. 952,135; Mar. 15; Sp. p. 3387; Gaz. vol. 152; p. 609.
Paper-coating machine. E. Williams. No. 953,728; Apr. 5; Sp. p. 91; Gaz. vol. 153; p. 18.
Paper construction. J. Carrotte. No. 968,644; Aug. 30; Sp. p. 5981; Gaz. vol. 157; p. 1052.
Paper, Craping. A. and J. Funke. No. 962,505; June 28; Sp. p. 4786; Gaz. vol. 155; p. 843.
Paper-cutter. W. C. Fuller. No. 947,100; Jan. 18; Sp. p. 4642; Gaz. vol. 150; p. 765.
Paper-cutter. L. F. Brening. No. 957,409; May 10; Sp. p. 1968; Gaz. vol. 154; p. 341.
Paper-cutter. L. A. Reiser. No. 976,496; Nov. 22; Sp. p. 5343; Gaz. vol. 160; p. 906.
Paper-cutter, Electric. P. L. Stohr. No. 947,744; Jan. 25; Sp. p. 6057; Gaz. vol. 150; p. 1010.
Paper cutting and trimming machine. H. S. Woodward. No. 959,674; May 31; Sp. p. 7027; Gaz. vol. 154; p. 1193.
Paper-cutting machine. N. Gray, Jr. No. 957,553; May 10; Sp. p. 2252; Gaz. vol. 154; p. 390.
Paper-cutting-machine cutting-stick. B. M. Helm. No. 969,371; Sept. 6; Sp. p. 483; Gaz. vol. 158; p. 76.
Paper-cutting machines, Cutting-stick for. B. M. Helm. No. 958,395; May 17; Sp. p. 4362; Gaz. vol. 154; p. 712.
Paper-cutting shears. A. Worcester. No. 958,455; May 17; Sp. p. 4480; Gaz. vol. 154; p. 733.
Paper, Device for water-surfacing. W. C. Watson. No. 952,852; Mar. 22; Sp. p. 4899; Gaz. vol. 152; p. 882.
Paper dishes, Machine for making. I. Bertin. No. 970,168; Sept. 13; Sp. p. 2186; Gaz. vol. 158; p. 372.
Paper-drying apparatus. J. D. Tompkins. No. 976,948; Nov. 29; Sp. p. 6331; Gaz. vol. 160; p. 1085.
Paper-fastener. C. G. Fisher. No. 952,322; Mar. 15; Sp. p. 3751; Gaz. vol. 152; p. 672.
Paper-fastener. F. H. Sawyer. No. 963,253; July 5; Sp. p. 585; Gaz. vol. 156; p. 81.
Paper-feed mechanism. P. J. Meahl. No. 969,295; Sept. 6; Sp. p. 302; Gaz. vol. 158; p. 49.
Paper-feed roller. A. Schneeloch. No. 946,618; Jan. 18; Sp. p. 3593; Gaz. vol. 150; p. 605.
Paper-feeder, Automatic. J. Hren. No. 951,074; Mar. 1; Sp. p. 1235; Gaz. vol. 152; p. 203.
Paper-feeding apparatus. C. von Glahn. No. 977,146; Nov. 29; Sp. p. 6790; Gaz. vol. 160; p. 1154.
Paper-feeding device. F. Schilz. No. 974,923; Nov. 8; Sp. p. 1913; Gaz. vol. 160; p. 316.
Paper-feeding device. G. E. Hardman. No. 976,735; Nov. 22; Sp. p. 5816; Gaz. vol. 160; p. 986.
Paper-feeding machine. A. Cole. No. 945,304; Jan. 4; Sp. p. 647; Gaz. vol. 150; p. 101.
Paper-feeding machine. T. C. Dexter and V. Garner. No. 959,319; May 24; Sp. p. 6268; Gaz. vol. 154; p. 1049.
Paper-feeding machine. T. C. Dexter. No. 961,585; June 14; Sp. p. 2777; Gaz. vol. 155; p. 482.
Paper-feeding machine. T. C. Dexter. No. 961,586; June 14; Sp. p. 2784; Gaz. vol. 155; p. 482.
Paper-feeding machine. T. C. Dexter. No. 961,744; June 14; Sp. p. 3102; Gaz. vol. 155; p. 536.
Paper-feeding machine. T. C. Dexter. No. 965,693; July 26; Sp. p. 5833; Gaz. vol. 156; p. 992.
Paper-feeding machine. F. L. Cross. No. 971,975; Oct. 4; Sp. p. 1036; Gaz. vol. 159; p. 173.
Paper-feeding machine. T. C. Dexter. No. 975,123; Nov. 8; Sp. p. 2365; Gaz. vol. 160; p. 385.
Paper-feeding-machine sheet-regulating mechanism. T. C. Dexter. No. 975,606; Nov. 15; Sp. p. 3397; Gaz. vol. 160; p. 577.
Paper fixture, Toilet-. H. J. Williams. No. 970,150; Sept. 13; Sp. p. 2148; Gaz. vol. 158; p. 366.
Paper fixture, Toilet-. H. J. Williams. No. 970,151; Sept. 13; Sp. p. 2149; Gaz. vol. 158; p. 366.
Paper-folder. L. A. Nichols. No. 946,393; Jan. 11; Sp. p. 3123; Gaz. vol. 150; p. 503.
Paper-folding machine. A. B. Collom, L. E. McClintock, W. C. Stewart, and R. R. McCreight. No. 948,920; Feb. 8; Sp. p. 2395; Gaz. vol. 151; p. 408.
Paper-folding machine. A. D. Pejauo. No. 972,469; Oct. 11; Sp. p. 2062; Gaz. vol. 159; p. 360.
Paper-folding machines, Feeding mechanism for. A. R. Little and E. H. Smith. No. 952,534; Mar. 22; Sp. p. 4199; Gaz. vol. 152; p. 771.
Paper from walls, Apparatus for removing old. W. C. Roberts and G. E. Corser. No. 975,284; Nov. 8; Sp. p. 2719; Gaz. vol. 160; p. 440.
Paper-grooving machine. W. E. Ramage and H. D. Shaw. No. 979,201; Dec. 20; Sp. p. 3876; Gaz. vol. 161; p. 671.
Paper-handling-machine controller. H. C. La Batt. No. 962,440; June 28; Sp. p. 4642; Gaz. vol. 155; p. 820.
Paper-handling machines, Controller for. H. C. La Batt. No. 968,063; Aug. 23; Sp. p. 4733; Gaz. vol. 157; p. 824.
Paper-hanger's board. F. D. Weller. No. 960,468; June 7; Sp. p. 449; Gaz. vol. 155; p. 76.
Paper-hanger's board or the like. F. D. Weller. No. 960,469; June 7; Sp. p. 451; Gaz. vol. 155; p. 77.
Paper-hanging machine. R. P. Ekstrom. No. 946,821; Jan. 18; Sp. p. 4054; Gaz. vol. 150; p. 672.
Paper-hanging machine. E. McFarland. No. 953,432; Mar. 29; Sp. p. 6146; Gaz. vol. 152; p. 1103.
Paper-holder. S. Wheeler. No. 954,709; Apr. 12; Sp. p. 2175; Gaz. vol. 153; p. 381.
Paper-holder. C. P. Marshall. No. 960,363; June 7; Sp. p. 259; Gaz. vol. 155; p. 44.
Paper-holder. G. and H. R. Laube. No. 968,959; Aug. 30; Sp. p. 6648; Gaz. vol. 157; p. 1158.
Paper-holder. C. O. Hiscock. No. 977,800; Dec. 6; Sp. p. 831; Gaz. vol. 161; p. 130.
Paper holder and cutter, Roll-. H. B. Wallace. No. 962,684; June 28; Sp. p. 5163; Gaz. vol. 155; p. 903.
Paper-holder attachment. S. P. Etter. No. 951,943; Mar. 15; Sp. p. 3020; Gaz. vol. 152; p. 547.
Paper holder, Carbon-. A. J. Bond. No. 960,488; June 7; Sp. p. 501; Gaz. vol. 155; p. 83.
Paper holder, Fly-. M. Brabaw. No. 966,887; Aug. 9; Sp. p. 2292; Gaz. vol. 157; p. 376.
Paper holder, Roll-toilet-. A. B. and E. J. McEachron. No. 977,418; Nov. 29; Sp. p. 7380; Gaz. vol. 160; p. 1247.
Paper holder, Shaving-. E. M. Holz. No. 946,728; Jan. 18; Sp. p. 3829; Gaz. vol. 150; p. 639.
Paper holder, Toilet-. A. B. Hubbard and S. J. Bens. No. 960,929; June 7; Sp. p. 1371; Gaz. vol. 155; p. 231.
Paper into strips and printing scales thereon, Apparatus for cutting. E. Eigner. No. 953,742; Apr. 5; Sp. p. 120; Gaz. vol. 153; p. 24.
Paper-machine. W. E. Brown and R. J. Scovill. No. 964,206; July 12; Sp. p. 2566; Gaz. vol. 156; p. 423.
Paper-machine. P. R. Thom. No. 971,645; Oct. 4; Sp. p. 282; Gaz. vol. 159; p. 50.
Paper, &c., Machine for cutting. L. Chambon. No. 953,121; Mar. 29; Sp. p. 5472; Gaz. vol. 152; p. 999.

Paper-machine slitting attachment. W. J. Dolan. No. 974,039; Oct. 25; Sp. p. 5507; Gaz. vol. 159; p. 954.
Paper-machines, Suction-box vacuum-regulator for. W. H. Millspaugh. No. 971,298; Sept. 27; Sp. p. 4580; Gaz. vol. 158; p. 802.
Paper-machines, Suction-roll for. W. H. Millspaugh. (Reissue.) No. 13,100; Apr. 12; Sp. p. 3068; Gaz. vol. 153; p. 520.
Paper-makers, Size for. A. W. Harrington. No. 960,318; June 7; Sp. p. 154; Gaz. vol. 155; p. 29.
Paper-making machine. H. Gaara. No. 951,183; Mar. 8; Sp. p. 1455; Gaz. vol. 152; p. 263.
Paper-making machine. F. N. Hamlin. No. 958,113; May 17; Sp. p. 3634; Gaz. vol. 154; p. 613.
Paper-making machine. J. A. Monroe. No. 968,251; Aug. 23; Sp. p. 5159; Gaz. vol. 157; p. 888.
Paper-making machine. L. F. Jurgenson. No. 977,654; Dec. 6; Sp. p. 531; Gaz. vol. 161; p. 80.
Paper-making machine. P. Priem. No. 978,779; Dec. 13; Sp. p. 2943; Gaz. vol. 161; p. 498.
Paper-making-machine drying-cylinder. O. W. Dodge. No. 977,376; Nov. 29; Sp. p. 7268; Gaz. vol. 160; p. 1234.
Paper-making machine, Reinforced-. M. C. Neuner. No. 967,958; Aug. 23; Sp. p. 4483; Gaz. vol. 157; p. 789.
Paper-making-machine save-all. N. Bryant. No. 964,897; July 19; Sp. p. 4144; Gaz. vol. 156; p. 690.
Paper-making-machine screen. J. W. Reynolds. No. 947,125; Jan. 18; Sp. p. 4677; Gaz. vol. 150; p. 772.
Paper-making machines, Couch-roll for. C. H. Smith. No. 954,055; Apr. 5; Sp. p. 743; Gaz. vol. 153; p. 130.
Paper-making machines, Suction-roll for. J. F. King and J. Neary. No. 976,185; Nov. 22; Sp. p. 4627; Gaz. vol. 160; p. 796.
Paper-making machinery. W. E. Sheehan. No. 959,626; May 31; Sp. p. 6917; Gaz. vol. 154; p. 1178.
Paper-making machinery. H. L. Orrman. No. 965,319; July 26; Sp. p. 5007; Gaz. vol. 156; p. 362.
Paper-making machinery. J. A. Noble. No. 969,800; Sept. 13; Sp. p. 1411; Gaz. vol. 158; p. 247.
Paper-making materials, Machine for kneading and grinding. C. Wurster. No. 958,901; May 24; Sp. p. 5439; Gaz. vol. 154; p. 911.
Paper-making or like machine. G. Brennwald. No. 967,604; Aug. 16; Sp. p. 3770; Gaz. vol. 157; p. 648.
Paper, Manifold-. W. L. West. No. 972,742; Oct. 11; Sp. p. 2683; Gaz. vol. 159; p. 455.
Paper, Manufacture of. J. Gernaert. No. 964,014; July 12; Sp. p. 2185; Gaz. vol. 156; p. 358.
Paper, Manufacture of craped or goffered. G. Loebbecke. No. 951,954; Mar. 15; Sp. p. 3040; Gaz. vol. 152; p. 550.
Paper, Manufacture of wall-. A. Trog. No. 977,054; Nov. 29; Sp. p. 6574; Gaz. vol. 160; p. 1122.
Paper or like material, Apparatus for separating sheets of. F. W. Vickery. No. 956,456; Apr. 26; Sp. p. 6001; Gaz. vol. 153; p. 1041.
Paper or similar fabric in web form, Manipulating. J. P. Knapp and G. E. Pancoast. No. 948,549; Feb. 8; Sp. p. 1620; Gaz. vol. 151; p. 284.
Paper or the like, Production of metallic. S. O. Cowper-Coles. No. 951,365; Mar. 8; Sp. p. 1835; Gaz. vol. 152; p. 322.
Paper-plaiting apparatus. C. R. Heiser. No. 957,159; May 3; Sp. p. 1400; Gaz. vol. 154; p. 224.
Paper, &c., pliable, Making. F. Evers. No. 957,196; May 10; Sp. p. 1490; Gaz. vol. 154; p. 266.
Paper-pulp engines, Roll-bar for. C. I. Ware. No. 958,708; May 17; Sp. p. 4961; Gaz. vol. 154; p. 815.
Paper-pulp mill. A. F. and O. B. Bahr. No. 946,752; Jan. 18; Sp. p. 3884; Gaz. vol. 150; p. 648.
Paper-pulp-refining apparatus. J. L. Perkins, J. O. Stanley, C. W. Putnam, and J. Montgomery. No. 979,885; Dec. 27; Sp. p. 5344; Gaz. vol. 161; p. 924.
Paper-pulp-refining engine. W. H. Sanburn. No. 950,868; Mar. 1; Sp. p. 861; Gaz. vol. 152; p. 138.
Paper-pulp screen. H. E. Spring and W. H. Lockwood. No. 951,032; Mar. 1; Sp. p. 1159; Gaz. vol. 152; p. 190.
Paper-pulp screen. O. Wandel. No. 955,025; Apr. 12; Sp. p. 2904; Gaz. vol. 153; p. 491.
Paper-pulp screen. H. E. Spring and W. H. Lockwood. No. 978,672; Dec. 13; Sp. p. 2721; Gaz. vol. 161; p. 464.
Paper-rack. P. J. Buehler. No. 959,839; May 31; Sp. p. 7378; Gaz. vol. 154; p. 1249.
Paper rack, Wrapping-. J. H. Sennstrom. No. 971,315; Sept. 27; Sp. p. 4611; Gaz. vol. 158; p. 807.
Paper receptacle. C. F. Jenkins. No. 954,104; Apr. 5; Sp. p. 857; Gaz. vol. 153; p. 148.
Paper receptacle. C. F. Jenkins. No. 954,105; Apr. 5; Sp. p. 857; Gaz. vol. 153; p. 148.
Paper receptacle. J. N. Davis. No. 956,305; Apr. 26; Sp. p. 5688; Gaz. vol. 153; p. 990.
Paper receptacle. L. W. Charlton. No. 961,339; June 14; Sp. p. 2273; Gaz. vol. 155; p. 401.
Paper receptacle or box. C. O. Mason. No. 979,871; Dec. 27; Sp. p. 5323; Gaz. vol. 161; p. 920.
Paper receptacle, Waste-. A. A. Low. No. 960,028; May 31; Sp. p. 7826; Gaz. vol. 154; p. 1316.
Paper receptacles, Machine for forming and attaching fasteners to. C. D. Grimes. No. 970,314; Sept. 13; Sp. p. 2503; Gaz. vol. 158; p. 422.
Paper reducing and packing apparatus, Waste-. A. A. Low. No. 960,026; May 31; Sp. p. 7822; Gaz. vol. 154; p. 1315.
Paper reducing and packing apparatus, Waste-. A. A. Low. No. 960,027; May 31; Sp. p. 7824; Gaz. vol. 154; p. 1315.
Paper-retaining device. G. W. Donning. (Reissue.) No. 13,077; Jan. 18; Sp. p. 4872; Gaz. vol. 150; p. 804.
Paper-roll holder. W. H. Hoell. No. 947,630; Jan. 25; Sp. p. 5857; Gaz. vol. 150; p. 972.
Paper-roll spindles, Locking-chuck for. D. B. Donnelly. No. 969,529; Sept. 6; Sp. p. 808; Gaz. vol. 158; p. 127.
Paper-rolls, Core for. D. B. Donnelly. No. 973,923; Oct. 25; Sp. p. 5265; Gaz. vol. 159; p. 913.
Paper rolls, Machine for making toilet-. H. Liebeck. No. 954,527; Apr. 12; Sp. p. 1774; Gaz. vol. 153; p. 318.
Paper, Safety-. J. R. Wilson. No. 593,081; Mar. 29; Sp. p. 5362; Gaz. vol. 152; p. 986.
Paper-sheet-feed mechanism. F. Giroud. No. 946,347; Jan. 11; Sp. p 2934; Gaz. vol. 150; p. 487.
Paper sheets one by one from a pile, Apparatus for delivering. E. T. Pollard. No. 958,764; May 24; Sp. p. 5092; Gaz. vol. 154; p. 861.
Paper, Stand or support for rolls of. L. A. Wheat. No. 947,007; Jan. 18; Sp. p. 4476; Gaz. vol. 150; p. 736.
Paper-stock, Cleaning old. J. D. Tompkins. No. 972,294; Oct. 11; Sp. p. 1703; Gaz. vol. 159; p. 299.
Paper-stock, Elimination of coloring-matter from. M. H. Hubbard. No. 977,013; Nov. 29; Sp. p. 6497; Gaz. vol. 160; p. 1108.
Paper-stock screen. F. D. Fowler. No. 973,493; Oct. 25; Sp. p. 4371; Gaz. vol. 159; p. 764.
Paper strips or the like, Positive feeding device for. O. Oehring. No. 950,754; Mar. 1; Sp. p. 630; Gaz. vol. 152; p. 101.
Paper-testing device. H. E. Eddy. No. 974,867; Nov. 8; Sp. p. 1790; Gaz. vol. 160; p. 297.
Paper-transmitting mechanism. W. T. Bailey. No. 977,501; Dec. 6; Sp. p. 173; Gaz. vol. 161; p. 28.
Paper-treating composition. A. W. Harrington. No. 960,319; June 7; Sp. p. 154; Gaz. vol. 155; p. 29.
Paper-treating machines, Automatic disconnecting device for. R. E. Fischer and M. Wescher. No. 965,576; July 26; Sp. p. 5592; Gaz. vol. 156; p. 951.
Paper-trimmer. R. Pierce and W. U. Colthar. No. 953,856; Apr. 5; Sp. p. 351; Gaz. vol. 153; p. 62.
Paper-trimming machine. S. K. White. No. 968,014; Aug. 23; Sp. p. 4619; Gaz. vol. 157; p. 807.
Paper-trimming machine. W. H. Smith. No. 974,198; Nov. 1; Sp. p. 210; Gaz. vol. 160; p. 35.
Paper-trimming machine, Wall-. H. L. Selleneit. No. 950,962; Mar. 1; Sp. p. 1051; Gaz. vol. 152; p. 168.
Paper-trimming machines, Slot-guard for. M. Repp. No. 971,146; Sept. 27; Sp. p. 4271; Gaz. vol. 158; p. 752.
Paper-tube machine. F. C. Osborn. No. 945,862; Jan. 11; Sp. p. 1914; Gaz. vol. 150; p. 318.
Paper-tube-manufacturing machinery. W. Kellner. No. 968,855; Aug. 30; Sp. p. 6438; Gaz. vol. 157; p. 1122.
Paper-tube-shaping machine. T. S. Neal. No. 969,555; Sept. 6; Sp. p. 872; Gaz. vol. 158; p. 137.
Paper tubes, Apparatus for securing closures in. C. F. Jenkins. No. 954,108; Apr. 5; Sp. p. 861; Gaz. vol. 153; p. 149.
Paper tubes, Machine for the production of. J. Gohy. No. 968,241; Aug. 23; Sp. p. 5135; Gaz. vol. 157; p. 884.
Paper-weight and fan, Combined. J. Keith. No. 948,611; Feb. 8; Sp. p. 1756; Gaz. vol. 151; p. 304.
Paper-weight and pen-extractor, Combined. N. O. Wicker. No. 960,753; June 7; Sp. p. 1037; Gaz. vol. 155; p. 175.
Paper-weight and pen-wiper. J. W. Lively. No. 966,106; Aug. 2; Sp. p. 558; Gaz. vol. 157; p. 90.
Paper-working machinery, Fault detecting and corrective apparatus for. C. B. Stilwell. No. 955,221; Apr. 19; Sp. p. 3292; Gaz. vol. 153; p. 589.
Paper wrappers, Machine for making. F. Kaufman. No. 973,202; Oct. 18; Sp. p. 3755; Gaz. vol. 159; p. 641.
Papering apparatus, Wall-. C. E. Hamelstrom. No. 951,562; Mar. 8; Sp. p. 2236; Gaz. vol. 152; p. 388.
Papering board and scaffold, Combined. C. H. Taber. No. 979,220; Dec. 20; Sp. p. 3932; Gaz. vol. 161; p. 678.
Paraffining-machine. J. C. Thompson. No. 951,293; Mar. 8; Sp. p. 1683; Gaz. vol. 152; p. 297.
Parasol-bag. H. K. Hansen. No. 980,098; Dec. 27; Sp. p. 5800; Gaz. vol. 161; p. 995.
Parcel-carrier. J. W. Clark. No. 958,723; May 24; Sp. p. 5002; Gaz. vol. 154; p. 846.
Parcel-carrier, Automatic electric. C. H. Bigby. No. 965,066; July 19; Sp. p. 4482; Gaz. vol. 156; p. 746.
Parcel-handle. O. Leuschner. No. 967,531; Aug. 16; Sp. p. 3628; Gaz. vol. 157; p. 623.
Parceling-machine. J. Bardet. No. 957,833; May 10; Sp. p. 2812; Gaz. vol. 154; p. 483.
Parer and corer, Combined vegetable. A. Chase. No. 948,573; Feb. 8; Sp. p. 1674; Gaz. vol. 151; p. 292.
Parer, Apple-. G. H. Hinchliffe. No. 959,137; May 24; Sp. p. 5907; Gaz. vol. 154; p. 989.
Parer, Fruit-. G. W. Gates. No. 965,513; July 26; Sp. p. 5438; Gaz. vol. 156; p. 928.
Parer, Fruit-. F. O. Case. No. 968,538; Aug. 30; Sp. p. 5756; Gaz. vol. 157; p. 1014.

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Paring machine, Apple-. W. R. Phillips. No. 954,340; Apr. 5; Sp. p. 1374; Gaz. vol. 153; p. 228.
Paring machine, Apple-. W. H. Boutell. No. 974,230; Nov. 1; Sp. p. 276; Gaz. vol. 160; p. 47.
Paring machine, Cocoanut-. F. Stamm and J. H. Welchel. No. 952,998; Mar. 22; Sp. p. 5176; Gag. vol. 152; p. 929.
Partition and the like, Office-. H. Klein. No. 956,642; May 3; Sp. p. 287; Gaz. vol. 154; p. 48.
Partitions, Sanitary base for. G. C. Mason. No. 949,589; Feb. 15; Sp. p. 3783; Gaz. vol. 151; p. 658.
Party-line-indicating system. C. C. Bradbury. No. 971,352; Sept. 27; Sp. p. 4688; Gaz. vol. 158; p. 820.
Party-line ringing-key, Four-. A. H. Weiss. No. 971,650; Oct. 4; Sp. p. 289; Gaz. vol. 159; p. 52.
Party-line-testing system. D. A. Lawver and C. C. Bradbury. No. 978,603; Dec. 13; Sp. p. 2579; Gaz. vol. 161; p. 440.
Paste-applying apparatus for can ends. A. Johnson. No. 957,967; May 17; Sp. p. 3178; Gaz. vol. 154; p. 561.
Paste-box. O. Dreher. No. 958,480; May 17; Sp. p. 4527; Gaz. vol. 154; p. 741.
Paste-tube. F. Muller. No. 949,545; Feb. 15; Sp. p. 3702; Gaz. vol. 151; p. 643.
Paste-tube. W. L. Clark. No. 953,373; Mar. 29; Sp. p. 6023; Gaz. vol. 152; p. 1082.
Paste-tube. W. L. Clark. No. 953,375; Mar. 29; Sp. p. 6028; Gaz. vol. 152; p. 1083.
Paster and paper-hanger. W. A. Cronk. No. 947,659; Jan. 25; Sp. p. 5916; Gaz. vol. 150; p. 982.
Pasting and trimming machine. W. J. Williams. No. 975,666; Nov. 15; Sp. p. 3556; Gaz. vol. 160; p. 598.
Pasting or gumming machine. J. W. Stocker. No. 974,535; Nov. 1; Sp. p. 1062; Gaz. vol. 160; p. 159.
Pasteurizer. C. Skidd. No. 955,481; Apr. 19; Sp. p. 3845; Gaz. vol. 153; p. 676.
Pasteurizer. H. Christensen. No. 957,035; May 3; Sp. p. 1160; Gaz. vol. 154; p. 183.
Pasteurizer. W. J. McKee. No. 977,029; Nov. 29; Sp. p. 6525; Gaz. vol. 160; p. 1114.
Pasteurizer. B. D. Pinkney. No. 979,796; Dec. 27; Sp. p. 5165; Gaz. vol. 161; p. 895.
Pasteurizing and refrigerating apparatus, Combined. S. Shapiro. No. 977,230; Nov. 29; Sp. p. 6960; Gaz. vol. 160; p. 1183.
Pasteurizing apparatus. A. A. Pindstofte. No. 946,397; Jan. 11; Sp. p. 3137; Gaz. vol. 150; p. 505.
Pasteurizing apparatus. R. M. Cauffman and W. Best. No. 948,443; Feb. 8; Sp. p. 1393; Gaz. vol. 151; p. 248.
Pasteurizing apparatus. H. E. Weber. No. 951,893; Mar. 15; Sp. p. 2924; Gaz. vol. 152; p. 529.
Pasteurizing apparatus. J. W. Heizer. No. 964,777; July 19; Sp. p. 3903; Gaz. vol. 156; p. 649.
Pasteurizing apparatus. A. Tiesse. No. 966,872; Aug. 9; Sp. p. 2255; Gaz. vol. 157; p. 370.
Pasteurizing apparatus. E. Davrou. No. 979,830; Dec. 27; Sp. p. 5238; Gaz. vol. 161; p. 907.
Pasteurizing apparatus. H. M. A. Harders. (Reissue.) No. 13,188; Dec. 27; Sp. p. 6014; Gaz. vol. 161; p. 1025.
Pasteurizing liquids, Machine for. W. J. McKee. No. 945,404; Jan. 4; Sp. p. 864; Gaz. vol. 150; p. 134.
Pastry-decorating machine. J. Anderson. No. 961,090; June 14; Sp. p. 1723; Gaz. vol. 155; p. 313.
Patch, Repair-. T. Whilde. No. 969,431; Sept. 6; Sp. p. 594; Gaz. vol. 158; p. 95.
Pattern and match plate. P. Voigt and C. Kornmayer. No. 965,968; Aug. 2; Sp. p. 252; Gaz. vol. 157; p. 43.
Pattern-cutting machine. C. E. Reed. No. 978,486; Dec. 13; Sp. p. 2313; Gaz. vol. 161; p. 399.
Pattern-cutting machine. C. E. Reed. No. 978,487; Dec. 13; Sp. p. 2315; Gaz. vol. 161; p. 399.
Pattern grading and cutting machine. A. F. Preston. No. 951,886; Mar. 15; Sp. p. 2908; Gaz. vol. 152; p. 527.
Pattern or mold forming machine. F. Quinn. No. 972,914; Oct. 18; Sp. p. 3089; Gaz. vol. 159; p. 542.
Patterns and molds, Manufacture of. A. Deville. No. 965,878; Aug. 2; Sp. p. 62; Gaz. vol. 157; p. 12.
Patterns, Apparatus for cutting paper, cloth, or similar. E. Pignone. No. 974,293; Nov. 1; Sp. p. 487; Gaz. vol. 160; p. 71.
Patterns, Fillet for. W. C. and M. W. Risbridger. No. 972,473; Oct. 11; Sp. p. 2075; Gaz. vol. 159; p. 361.
Patterns, Laying out. C. F. Schulze. No. 945,814; Jan. 11; Sp. p. 1794; Gaz. vol. 150; p. 300.
Pavement. H. G. Jennison. No. 962,150; June 21; Sp. p. 4016; Gaz. vol. 155; p. 697.
Pavement. M. E. Dunn. No. 978,994; Dec. 20; Sp. p. 3401; Gaz. vol. 161; p. 598.
Pavement and other light. H. C. Seipp. No. 972,264; Oct. 11; Sp. p. 1639; Gaz. vol. 159; p. 289.
Pavement-blocking device. R. S. Blome and W. J. Sinek. No. 967,714; Aug. 16; Sp. p. 3987; Gaz. vol. 157; p. 683.
Pavement, Composite. E. C. Wallace. No. 959,976; May 31; Sp. p. 7696; Gaz. vol. 154; p. 1297.
Pavements and the like, Tread-surface for. C. B. Jacobs. No. 954,966; Apr. 12; Sp. p. 2784; Gaz. vol. 153; p. 471.
Pavements, Making. J Y McClintock. No. 957,985; May 17; Sp. p. 3227; Gaz. vol. 154; p. 567.
Pavements, Process of and templet for use in laying. E. G. Schwendeman. No. 979,577; Dec. 27; Sp. p. 4670; Gaz. vol. 161; p. 820.
Pavements under water, Laying. W. H. Fahrney. No. 961,222; June 14; Sp. p. 1994; Gaz. vol. 155; p. 360.
Paving-block, Composite. E. H. Benners. No. 948,808; Feb. 8; Sp. p. 2188; Gaz. vol. 151; p. 371.
Paving, Manufacturing and laying bituminous. J. H. Amies. No. 945,071; Jan. 4; Sp. p. 139; Gaz. vol. 150; p. 23.
Paving-rammer. W. H. Nordström and N. C. Qvist. No. 965,218; July 26; Sp. p. 4779; Gaz. vol. 156; p. 827.
Pawl-and-ratchet mechanism. W. R. Fishburn. No. 952,032; Mar. 15; Sp. p. 3198; Gaz. vol. 152; p. 575.
Pea-huller. J. R. Hughey. No. 955,403; Apr. 19; Sp. p. 3696; Gaz. vol. 153; p. 650.
Pea-vine-hulling machine, Green-. R. P. Scott. No. 957,443; May 10; Sp. p. 2034; Gaz. vol. 154; p. 353.
Pea-vine-hulling machine, Green-. T. A. Scott. No. 957,444; May 10; Sp. p. 2036; Gaz. vol. 154; p. 353.
Peas on the vines, Machine for hulling green. R. P. Scott. No. 957,442; May 10; Sp. p. 2032; Gaz. vol. 154; p. 352.
Peanut-gleaner. H. L. Pippen. No. 972,910; Oct. 18; Sp. p. 3081; Gaz. vol. 159; p. 541.
Peanut-roaster. I. R. Anderson. No. 976,424; Nov. 22; Sp. p. 5185; Gaz. vol. 160; p. 881.
Peanuts in the shell, Salting. F. and H. Baker. No. 966,514; Aug. 9; Sp. p. 1467; Gaz. vol. 157; p. 251.
Pearls and for similar purposes, Composition for use in manufacture of artificial. C. J. Paisseau-Feil. No. 978,394; Dec. 13; Sp. p. 2116; Gaz. vol. 161; p. 368.
Peat and the like, Drying apparatus for. C. A. Matheson. No. 957,232; May 10; Sp. p. 1588; Gaz. vol. 154; p. 280.
Peat fiber and its manufacture into paper, &c., Treatment of. L. Franz. No. 945,313; Jan. 4; Sp. p. 673; Gaz. vol. 150; p. 105.
Peat fuel, Apparatus for treating and utilizing. W. L. Shepard and H. J. Wickham. No. 946,788; Jan. 18; Sp. p. 3973; Gaz. vol. 150; p. 660.
Peat-machine. P. Heseltine. No. 962,349; June 21; Sp. p. 4431; Gaz. vol. 155; p. 764.
Peat, Preparing. W. H. Bradley. No. 962,119; June 21; Sp. p. 3941; Gaz. vol. 155; p. 686.
Peat-preparing apparatus. W. H. Bradley. No. 962,120; June 21; Sp. p. 3946; Gaz. vol. 155; p. 687.
Pedal. A. F. and C. H. Norris. No. 946,260; Jan. 11; Sp. p. 2754; Gaz. vol. 150; p. 458.
Pedal. A. F. and C. H. Norris. No. 969,650; Sept. 6; Sp. p. 1059; Gaz. vol. 158; p. 170.
Pedal-action. L. W. Norcross. No. 954,043; Apr. 5; Sp. p. 722; Gaz. vol. 153; p. 126.
Pedal and toe-cap therefor. A. F. and C. H. Norris. No. 969,651; Sept. 6; Sp. p. 1064; Gaz. vol. 158; p. 171.
Pedal grip attachment. E. F. and H. Pawsat. No. 973,065; Oct. 18; Sp. p. 3432; Gaz. vol. 159; p. 594.
Pedal gripper attachment. E. F. and H. Pawsat. No. 959,160; May 24; Sp. p. 5957; Gaz. vol. 154; p. 997.
Pedal mechanism. G. P. Brand. No. 978,837; Dec. 20; Sp. p. 3040; Gaz. vol. 161; p. 541.
Pedal-mounting. F. H. Hartzell. No. 961,442; June 14; Sp. p. 2471; Gaz. vol. 155; p. 434.
Pedestal. J. Lehman. No. 965,471; July 26; Sp. p. 5338; Gaz. vol. 156; p. 913.
Peeler. R. Powell. No. 954,047; Apr. 5; Sp. p. 728; Gaz. vol. 153; p. 128.
Pegging-machine. J. F. Davey. No. 973,009; Oct. 18; Sp. p. 3307; Gaz. vol. 159; p. 575.
Pellicles, Continuous manufacture of. M. Ratignier and H. Pervilhac. No. 947,457; Jan. 25; Sp. p. 5468; Gaz. vol. 150; p. 914.
Pen. H. W. Kueffner. No. 954,306; Apr. 5; Sp. p. 1302; Gaz. vol. 153; p. 215.
Pen and pencil box. F. Hasselberger. No. 970,049; Sept. 13; Sp. p. 1962; Gaz. vol. 158; p. 333.
Pen and pencil clip. J. H. Pilkington. No. 955,430; Apr. 19; Sp. p. 3745; Gaz. vol. 153; p. 658.
Pen and pencil holder. M. A. Dwinell. No. 952,002; Mar. 15; Sp. p. 3137; Gaz. vol. 152; p. 565.
Pen and pencil holder. J. Dean. No. 960,215; May 31; Sp. p. 8192; Gaz. vol. 154; p. 1379.
Pen and pencil holder. H. J. Huddle. No. 974,887; Nov. 8; Sp. p. 1826; Gaz. vol. 160; p. 304.
Pen and pencil holder. X. F. Schnapka. No. 975,465; Nov. 15; Sp. p. 3096; Gaz. vol. 160; p. 529.
Pen and pencil holder. E. A. Crosby. No. 976,437; Nov. 22; Sp. p. 5219; Gaz. vol. 160; p. 886.
Pen and penholder. D. Nagy. No. 955,670; Apr. 19; Sp. p. 4282; Gaz. vol. 153; p. 740.
Pen and seal, Combined. J. V. Mitchell. No. 966,938; Aug. 9; Sp. p. 2390; Gaz. vol. 157; p. 392.
Pen attachment. A. P. Hamann. No. 969,689; Sept. 6; Sp. p. 1137; Gaz. vol. 158; p. 184.
Pen attachment, Fountain-. O. von Rottenburg. No. 962,053; June 21; Sp. p. 3778; Gaz. vol. 155; p. 663.
Pen-beam. C. Burrows. No. 979,126; Dec. 20; Sp. p. 3726; Gaz. vol. 161; p. 645.
Pen caps, Tool for applying clips to fountain-. M. R. Crossman. No. 955,386; Apr. 19; Sp. p. 3660; Gaz. vol. 153; p. 643.
Pen, Drawing-. J. Pamer. No. 970,541; Sept. 20; Sp. p. 2986; Gaz. vol. 158; p. 520.
Pen, Drawing or ruling. A. S. Robinson. No. 967,835; Aug. 16; Sp. p. 4238; Gaz. vol. 157; p. 725.

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Pen-extractor. F. R. Bailey. No. 972,146; Oct. 11; Sp. p. 1368; Gaz. vol. 159; p. 250.
Pen filler, Fountain-. M. T. Fish. No. 947,468; Jan. 25; Sp. p. 5485; Gaz. vol. 150; p. 917.
Pen filler, Fountain-. G. F. Robertson. No. 953,438; Mar. 29; Sp. p. 6156; Gaz. vol. 152; p. 1105.
Pen, Foldable and portable stock-. W. C. Smith. No. 948,351; Feb. 8; Sp. p. 1187; Gaz. vol. 151; p. 218.
Pen for swine, Farrowing-. R. D. Spelts. No. 975,649; Nov. 15; Sp. p. 3489; Gaz. vol. 160; p. 592.
Pen, Fountain-. E. E. Morlan. No. 945,043; Jan. 4; Sp. p. 70; Gaz. vol. 150; p. 13.
Pen, Fountain-. R. B. Hallock. No. 946,036; Jan. 11; Sp. p. 2280; Gaz. vol. 150; p. 379.
Pen, Fountain-. W. E. Geyer. No. 949,425; Feb. 15; Sp. p. 3468; Gaz. vol. 151; p. 605.
Pen, Fountain-. F. C. Brown. No. 949,752; Feb. 22; Sp. p. 4121; Gaz. vol. 151; p. 746.
Pen, Fountain-. W. I. Ferris. No. 950,817; Mar. 1; Sp. p. 769; Gaz. vol. 152; p. 122.
Pen, Fountain-. C. E. Martling and C. Dunn. No. 950,939; Mar. 1; Sp. p. 1001; Gaz. vol. 152; p. 160.
Pen, Fountain-. F. C. Brown. No. 953,316; Mar. 29; Sp. p. 5879; Gaz. vol. 152; p. 1062.
Pen, Fountain-. C. W. Boman. No. 954,415; Apr. 12; Sp. p. 1524; Gaz. vol. 153; p. 280.
Pen, Fountain-. P. J. Helmer. No. 954,514; Apr. 12; Sp. p. 1750; Gaz. vol. 153; p. 314.
Pen, Fountain-. F. Riesenberg. No. 955,205; Apr. 19; Sp. p. 3256; Gaz. vol. 153; p. 583.
Pen, Fountain-. B. Rentz. No. 955,475; Apr. 19; Sp. p. 3835; Gaz. vol. 153; p. 674.
Pen, Fountain-. E. E. Morlan. No. 955,675; Apr. 19; Sp. p. 4291; Gaz. vol. 153; p. 742.
Pen, Fountain-. G. J. Martz. No. 960,660; June 7; Sp. p. 861; Gaz. vol. 155; p. 142.
Pen, Fountain-. R. N. Saha. No. 962,982; June 28; Sp. p. 5748; Gaz. vol. 155; p. 1006.
Pen, Fountain-. D. Gallagher. No. 971,742; Oct. 4; Sp. p. 491; Gaz. vol. 159; p. 85.
Pen, Fountain-. P. E. Wirt. No. 978,419; Dec. 13; Sp. p. 2169; Gaz. vol. 161; p. 376.
Pen, Fountain-. P. E. Wirt. No. 978,420; Dec. 13; Sp. p. 2173; Gaz. vol. 161; p. 377.
Pen, Fountain-. F. M. Ashley. No. 978,829; Dec. 20; Sp. p. 3028; Gaz. vol. 161; p. 539.
Pen, Fountain-. J. A. Vogelmann. No. 979,360; Dec. 20; Sp. p. 4199; Gaz. vol. 161; p. 724.
Pen, Fountain-. G. H. Carter. No. 979,427; Dec. 27; Sp. p. 4331; Gaz. vol. 161; p. 768.
Pen, Fountain-. J. L. Goldsmith. No. 979,757; Dec. 27; Sp. p. 5064; Gaz. vol. 161; p. 882.
Pen, Marking-. L. W. Newman. No. 946,149; Jan. 11; Sp. p. 2498; Gaz. vol. 150; p. 417.
Pen or pencil clip. W. W. Sanford. No. 952,469; Mar. 22; Sp. p. 4060; Gaz. vol. 152; p. 750.
Pen-rack. G. H. Wagner. No. 952,593; Mar. 22; Sp. p. 4332; Gaz. vol. 152; p. 793.
Pen, Reservoir-. W. W. Sanford. No. 960,413; June 7; Sp. p. 358; Gaz. vol. 155; p. 60.
Pen, Reservoir-. R. Young. No. 962,485; June 28; Sp. p. 4741; Gaz. vol. 155; p. 836.
Pen, Reservoir-. W. W. Sanford. No. 969,198; Sept. 6; Sp. p. 120; Gaz. vol. 158; p. 20.
Pen, Reservoir-. E. M. Wade. No. 972,301; Oct. 11; Sp. p. 1719; Gaz. vol. 159; p. 302.
Pen, Self-filling fountain-. B. Grieshaber. No. 956,895; May 3; Sp. p. 860; Gaz. vol. 154; p. 137.
Pen, Self-filling fountain-. J. A. Vogelmann. No. 961,663; June 14; Sp. p. 2933; Gaz. vol. 155; p. 508.
Pen, Self-filling fountain-. G. H. Heindselman. No. 964,254; July 12; Sp. p. 2665; Gaz. vol. 156; p. 439.
Pen, Self-filling fountain-. H. Lewinson. No. 964,982; July 19; Sp. p. 4306; Gaz. vol. 156; p. 719.
Pen, Self-filling fountain-. J. Lipic. No. 976,815; Nov. 22; Sp. p. 5997; Gaz. vol. 160; p. 1013.
Pen, Self-filling fountain-. T. F. Gaynor. No. 977,424; Nov. 29; Sp. p. 7389; Gaz. vol. 160; p. 1249.
Pen, Stylographic. L. Trotzky. No. 948,832; Feb. 8; Sp. p. 2237; Gaz. vol. 151; p. 379.
Pen, Stylographic. J. Ullrich. No. 979,606; Dec. 27; Sp. p. 4735; Gaz. vol. 161; p. 831.
Pens and pencils, Retainer for fountain-. L. D. Van Valkenburg. No. 948,802; Feb. 8; Sp. p. 2177; Gaz. vol. 151; p. 369.
Pens and pencils, Safety-clip for. W. O. Hunter. No. 960,092; May 31; Sp. p. 7956; Gaz. vol. 154; p. 1337.
Pens, Apparatus for filling fountain-. P. J. Sullivan. No. 955,830; Apr. 19; Sp. p. 4607; Gaz. vol. 153; p. 796.
Pens, Feed-valve action for fountain-. G. H. Heindselman. No. 950,596; Mar. 1; Sp. p. 276; Gaz. vol. 152; p. 45.
Pens, Ink-holder for. J. A. Simisky. No. 961,171; June 14; Sp. p. 1878; Gaz. vol. 155; p. 341.
Penholder. J. Kelly. No. 945,171; Jan. 4; Sp. p. 337; Gaz. vol. 150; p. 57.
Penholder. J. M. Geiger. No. 948,852; Feb. 8; Sp. p. 2271; Gaz. vol. 151; p. 385.
Penholder. R. B. Ward. No. 948,910; Feb. 8; Sp. p. 2379; Gaz. vol. 151; p. 405.
Penholder. M. E. Farris. No. 952,424; Mar. 15; Sp. p. 3945; Gaz. vol. 152; p. 706.
Penholder. W. Hahn. No. 952,733; Mar. 22; Sp. p. 4636; Gaz. vol. 152; p. 840.
Penholder. A. Beaty. No. 957,835; May 10; Sp. p. 2821; Gaz. vol. 154; p. 484.
Penholder. D. De Nure. No. 960,282; June 7; Sp. p. 83; Gaz. vol. 155; p. 18.
Penholder. O. E. Moyer. No. 960,373; June 7; Sp. p. 277; Gaz. vol. 155; p. 47.
Penholder. A. O. Sperry. No. 960,595; June 7; Sp. p. 725; Gaz. vol. 155; p. 120.
Penholder. J. Schwartz. No. 962,986; June 28; Sp. p. 5755; Gaz. vol. 155; p. 1007.
Penholder. W. King. No. 964,650; July 19; Sp. p. 3533; Gaz. vol. 156; p. 604.
Penholder. L. J. Libbing. No. 968,575; Aug. 30; Sp. p. 5834; Gaz. vol. 157; p. 1028.
Penholder. T. C. Spencer. No. 970,859; Sept. 20; Sp. p. 3695; Gaz. vol. 158; p. 631.
Penholder. B. F. Lewis. No. 974,578; Nov. 1; Sp. p. 1154; Gaz. vol. 160; p. 175.
Penholder. H. A. Wulff. No. 975,191; Nov. 8; Sp. p. 2540; Gaz. vol. 160; p. 409.
Penholder. J. Jacobs. No. 976,805; Nov. 22; Sp. p. 5981; Gaz. vol. 160; p. 1010.
Penholder and pen therefor. G. B. Elliott. No. 970,315; Sept. 13; Sp. p. 2507; Gaz. vol. 158; p. 422.
Penholder, Ejecting-. J. N. Smith. No. 964,573; July 19; Sp. p. 3382; Gaz. vol. 156; p. 578.
Penholder, Finger-guard. J. Roecker, Jr. No. 979,801; Dec. 27; Sp. p. 5174; Gaz. vol. 161; p. 897.
Penholder, Fountain-. H. S. Brewington. No. 958,472; May 17; Sp. p. 4512; Gaz. vol. 154; p. 739.
Penholders and the like, Combined finger-guide for. H. J. Montgomery. No. 967,410; Aug. 16; Sp. p. 3382; Gaz. vol. 157; p. 583.
Penholders, Ink-scraper attachment for. J. E. Shouse. No. 965,239; July 26; Sp. p. 4819; Gaz. vol. 156; p. 834.
Pencil. E. L. Schmitz. No. 945,422; Jan. 4; Sp. p. 904; Gaz. vol. 150; p. 141.
Pencil. C. von Schemnitzky. No. 948,535; Feb. 8; Sp. p. 1587; Gaz. vol. 151; p. 280.
Pencil. E. L. Schmitz. No. 960,588; June 7; Sp. p. 715; Gaz. vol. 155; p. 118.
Pencil. C. A. Smith. No. 966,712; Aug. 9; Sp. p. 1862; Gaz. vol. 157; p. 318.
Pencil and pen holder and guard. W. D. McGaa. No. 953,638; Mar. 29; Sp. p. 6580; Gaz. vol. 152; p. 1175.
Pencil attachment. W. L. Selleck. No. 965,235; July 26; Sp. p. 4814; Gaz. vol. 156; p. 833.
Pencil-box. E. I. Hawk. No. 955,399; Apr. 19; Sp. p. 3690; Gaz. vol. 153; p. 649.
Pencil-clip. W. B. Goode. No. 971,190; Sept. 27; Sp. p. 4373; Gaz. vol. 158; p. 767.
Pencil-extender. C. A. See. No. 945,617; Jan. 4; Sp. p. 1303; Gaz. vol. 150; p. 204.
Pencil-holder. E. S. Evenson. No. 946,026; Jan. 11; Sp. p. 2255; Gaz. vol. 150; p. 375.
Pencil-holder. J. G. Watanabe. No. 948,118; Feb. 1; Sp. p. 703; Gaz. vol. 151; p. 115.
Pencil-holder. J. W. Mills. No. 949,591; Feb. 15; Sp. p. 3786; Gaz. vol. 151; p. 659.
Pencil-holder. E. Plourde. No. 950,342; Feb. 22; Sp. p. 5430; Gaz. vol. 151; p. 952.
Pencil-holder. W. Henrichs. No. 957,208; May 10; Sp. p. 1534; Gaz. vol. 154; p. 271.
Pencil-holder. L. May. No. 957,787; May 10; Sp. p. 2736; Gaz. vol. 154; p. 468.
Pencil-holder. A. B. Bly. No. 968,529; Aug. 30; Sp. p. 5735; Gaz. vol. 157; p. 1011.
Pencil-holder and inhaler, Combined. J. W. Hayes. No. 973,427; Oct. 18; Sp. p. 4221; Gaz. vol. 159; p. 719.
Pencil, Lead-. C. Kaiser. No. 972,624; Oct. 11; Sp. p. 2437; Gaz. vol. 159; p. 415.
Pencil, Lead and crayon. J. Soss. No. 955,293; Apr. 19; Sp. p. 3444; Gaz. vol. 153; p. 612.
Pencil, Magazine-. J. A. Hollenberger. No. 959,531; May 31; Sp. p. 6727; Gaz. vol. 154; p. 1145.
Pencil, Mechanical. G. Arends. No. 948,124; Feb. 1; Sp. p. 712; Gaz. vol. 151; p. 117.
Pencil, Modeling-. T. A. De Vilbiss. No. 977,282; Nov. 29; Sp. p. 7060; Gaz. vol. 160; p. 1201.
Pencil-pointer. R. A. and A. P. Wilson. No. 972,488; Oct. 11; Sp. p. 2105; Gaz. vol. 159; p. 366.
Pencil protector and retainer. J. P. Smythe. No. 971,797; Oct. 4; Sp. p. 599; Gaz. vol. 159; p. 105.
Pencil protector and sharpener, Combination. T. Goodair. No. 947,812; Feb. 1; Sp. p. 60; Gaz. vol. 151; p. 13.
Pencil-sharpener. W. S. Beebe. No. 946,098; Jan. 11; Sp. p. 2402; Gaz. vol. 150; p. 399.
Pencil-sharpener. D. L. McBride. No. 949,085; Feb. 15; Sp. p. 2751; Gaz. vol. 151; p. 489.
Pencil-sharpener. C. C. Spengler. No. 950,797; Mar. 1; Sp. p. 730; Gaz. vol. 152; p. 116.
Pencil-sharpener. H. J. Schuch. No. 951,457; Mar. 8; Sp. p. 2030; Gaz. vol. 152; p. 352.
Pencil-sharpener. F. E. Hiner. No. 953,998; Apr. 5; Sp. p. 627; Gaz. vol. 153; p. 112.
Pencil-sharpener. H. W. Kohnes. No. 954,812; Apr. 12; Sp. p. 2442; Gaz. vol. 153; p. 417.
Pencil-sharpener. W. F. Herdrich. No. 955,513; Apr. 19; Sp. p. 3921; Gaz. vol. 153; p. 688.

Alphabetical list of inventions—Continued.

Pencil-sharpener. F. Brostrom. No. 958,904; May 24; Sp. p. 5442; Gaz. vol. 154; p. 911.
Pencil-sharpener. M. W. Walter. No. 959,660; May 31; Sp. p. 6985; Gaz. vol. 154; p. 1189.
Pencil-sharpener. F. Alexander. No. 959,831; May 31; Sp. p. 7361; Gaz. vol. 154; p. 1246.
Pencil-sharpener. E. Weiler. No. 963,408; July 5; Sp. p. 897; Gaz. vol. 156; p. 132.
Pencil-sharpener. E. B. Welles. No. 965,262; July 26; Sp. p. 4873; Gaz. vol. 156; p. 842.
Pencil-sharpener. E. B. Welles. No. 965,263; July 26; Sp. p. 4876; Gaz. vol. 156; p. 842.
Pencil-sharpener. S. Jensen. No. 965,907; Aug. 2; Sp. p. 128; Gaz. vol. 157; p. 22.
Pencil-sharpener. N. Stafford. No. 967,257; Aug. 16; Sp. p. 3058; Gaz. vol. 157; p. 530.
Pencil-sharpener. J. Anderson. No. 969,323; Sept. 6; Sp. p. 360; Gaz. vol. 158; p. 59.
Pencil-sharpener. D. F. Oliver. No. 979,688; Dec. 27; Sp. p. 4898; Gaz. vol. 161; p. 858.
Pencil-sharpener and clamp. J. M., M. A., and T. H. Carter. No. 968,324; Aug. 23; Sp. p. 5308; Gaz. vol. 157; p. 915.
Pencil-sharpener cutter. J. P. Casey. No. 971,728; Oct. 4; Sp. p. 464; Gaz. vol. 159; p. 80.
Pencil-sharpening machine. A. S. Wheeler. No. 961,392; June 14; Sp. p. 2361; Gaz. vol. 155; p. 417.
Pencils, Eraser-tip for. A. Tregoning. No. 977,762; Dec. 6; Sp. p. 759; Gaz. vol. 161; p. 118.
Pendant-switch. C. D. Gervin. No. 977,446; Dec. 6; Sp. p. 38; Gaz. vol. 161; p. 9.
Penstock. C. H. Laing. No. 972,876; Oct. 18; Sp. p. 2978; Gaz. vol. 159; p. 527.
Pepper-boxes and the like, Top for. E. Cruikshank and U. W. Bock. No. 957,037; May 3; Sp. p. 1165; Gaz. vol. 154; p. 185.
Perambulator, Convertible. J. Ford. No. 957,874; May 17; Sp. p. 2917; Gaz. vol. 154; p. 528.
Perambulator, Foldable. C. E. Fanning. No. 970,202; Sept. 13; Sp. p. 2270; Gaz. vol. 158; p. 384.
Perambulator, Folding. F. A. Nauts. No. 958,423; May 17; Sp. p. 4409; Gaz. vol. 154; p. 721.
Perambulator, Folding. J. Kanabay. No. 960,337; June 7; Sp. p. 202; Gaz. vol. 155; p. 35.
Perch. D. Vanderkolk. No. 968,817; Aug. 30; Sp. p. 6363; Gaz. vol. 157; p. 1110.
Perch, Chicken-. G. C. James. No. 974,386; Nov. 1; Sp. p. 692; Gaz. vol. 160; p. 105.
Perch for fowls. J. D. Carmichael. No. 966,523; Aug. 9; Sp. p. 1482; Gaz. vol. 157; p. 254.
Perch for poultry. J. R. Patterson. No. 964,806; July 19; Sp. p. 3960; Gaz. vol. 156; p. 658.
Perch, Poultry-. A. A. Straight. No. 977,980; Dec. 6; Sp. p. 1210; Gaz. vol. 161; p. 194.
Percolating device. G. E. Savage. No. 951,581; Mar. 8; Sp. p. 2270; Gaz. vol. 152; p. 394.
Percolating device. J. W. Chapman. No. 953,001; Mar. 22; Sp. p. 5188; Gaz. vol. 152; p. 931.
Percolator. B. N. Young. No. 947,143; Jan. 18; Sp. p. 4705; Gaz. vol. 150; p. 777.
Percolator. O. Selg. No. 951,290; Mar. 8; Sp. p. 1676; Gaz. vol. 152; p. 297.
Percolator. E. S. Peck. No. 954,582; Apr. 12; Sp. p. 1888; Gaz. vol. 153; p. 337.
Percolator. C. U. Buck. No. 959,110; May 24; Sp. p. 5848; Gaz. vol. 154; p. 980.
Percolator. D. P. Moore. No. 959,955; May 31; Sp. p. 7650; Gaz. vol. 154; p. 1290.
Percolator. O. Selg. No. 960,419; June 7; Sp. p. 366; Gaz. vol. 155; p. 62.
Percolator. R. E. Hughes. No. 961,963; June 21; Sp. p. 3595; Gaz. vol. 155; p. 632.
Percolator. J. R. Holley. No. 964,518; July 19; Sp. p. 3236; Gaz. vol. 156; p. 558.
Percolator, Coffee- P. Edtbauer. No. 948,108; Feb. 1; Sp. p. 684; Gaz. vol. 151; p. 112.
Percolator, Coffee-. C. Fuller. No. 956,332; Apr. 26; Sp. p. 5742; Gaz. vol. 153; p. 999.
Percolator, Coffee-. J. H. Myers. No. 961,886; June 21; Sp. p. 3432; Gaz. vol. 155; p. 606.
Percolator, Coffee and tea. G. Mueller. No. 967,813; Aug. 16; Sp. p. 4183; Gaz. vol. 157; p. 717.
Percolator, Electric. L. F. Parkhurst and H. G. Weeks. No. 968,682; Aug. 30; Sp. p. 6098; Gaz. vol. 157; p. 1066.
Percolator for coffee or tea pots. F. Nather. No. 946,578; Jan. 18; Sp. p. 3507; Gaz. vol. 150; p. 590.
Percolator-overflow. E. A. Gutermann. No. 945,938 Jan. 11; Sp. p. 2079; Gaz. vol. 150; p. 346.
Percolator-pot. J. W. Chapman. No. 966,735; Aug. 9; Sp. p. 1930; Gaz. vol. 157; p. 327.
Percolator-pot, Valved. J. W. Chapman. No. 956,481; Apr. 26; Sp. p. 6061; Gaz. vol. 153; p. 1050.
Percolator, Reversible. J. Berg. No. 969,028; Aug. 30; Sp. p. 6784; Gaz. vol. 157; p. 1182.
Percussive apparatus, Automatic. W. Mauss. No. 955,976; Apr. 26; Sp. p. 4959; Gaz. vol. 153; p. 877.
Percussive apparatus, Self-feeding. W. Mauss. No. 965,828; July 26; Sp. p. 6122; Gaz. vol. 156; p. 1038.
Percussive tool. H. C. Hansel. No. 966,329; Aug. 2; Sp. p. 1007; Gaz. vol. 157; p. 163.
Perfecting-machine. H. Stamm. No. 973,312; Oct. 18; Sp. p. 3965; Gaz. vol. 159; p. 679.
Perforating and binding machine. C. F. McBee. No. 946,458; Jan. 11; Sp. p. 3273; Gaz. vol. 150; p. 526.
Perforating designs, Electrical apparatus for. B. H. Wallin. No. 973,899; Oct. 25; Sp. p. 5224; Gaz. vol. 159; p. 906.
Perforating-machine. F. P. Rosback. No. 959,966; May 31; Sp. p. 7668; Gaz. vol. 154; p. 1294.
Perforating-machine. S. Hollingsworth. No. 966,408; Aug. 2; Sp. p. 1164; Gaz. vol. 157; p. 188.
Perforating-machine. C. O. Pearson. No. 978,480; Dec. 13; Sp. p. 2297; Gaz. vol. 161; p. 397.
Perforating-machine feed mechanism. G. B. Kelly and F. L. Wood. No. 947,495; Jan. 25; Sp. p. 5579; Gaz. vol. 150; p. 927.
Perforating or punching machine. J. Weber. No. 969,737; Sept. 6; Sp. p. 1246; Gaz. vol. 158; p. 201.
Perforating-shear. C. Carlton. No. 968,121; Aug. 23; Sp. p. 4859; Gaz. vol. 157; p. 843.
Perforator, Check-. S. Schiff. No. 962,167; June 21; Sp. p. 4053; Gaz. vol. 155; p. 704.
Perfume. C. O. Kleber. No. 969,636; Sept. 6; Sp. p. 1036; Gaz. vol. 158; p. 166.
Perfume-tablet, Soluble. R. W. Whitlatch. No. 962,872; June 28; Sp. p. 5554; Gaz. vol. 155; p. 971.
Periscope. W. N. Howell. No. 959,013; May 24; Sp. p. 5638; Gaz. vol. 154; p. 948.
Periscope. J. Humbrecht. No. 976,370; Nov. 22; Sp. p. 5066; Gaz. vol. 160; p. 860.
Permutation-lock. J. P. Crosthwait. No. 968,328; Aug. 23; Sp. p. 5318; Gaz. vol. 157; p. 916.
Permutation-lock. H. C. Lowrie. No. 975,549; Nov. 15; Sp. p. 3288; Gaz. vol. 160; p. 558.
Peroxid of hydrogen, Making durable solutions of. J. Arndts. No. 946,529; Jan. 18; Sp. p. 3433; Gaz. vol. 150; p. 577.
Pessary. O. H. Sheppard. No. 960,721; June 7; Sp. p. 980; Gaz. vol. 155; p. 163.
Petroleum distillates, Desulfurizing. H. V. Walker. No. 955,372; Apr. 19; Sp. p. 3620; Gaz. vol. 153; p. 638.
Petroleum products, Apparatus for use in obtaining. H. Frasch. No. 951,729; Mar. 8; Sp. p. 2543; Gaz. vol. 152; p. 443.
Petroleum products, Obtaining. H. Frasch. No. 951,272; Mar. 8; Sp. p. 1629; Gaz. vol. 152; p. 291.
Petroleum products, Obtaining. H. Frasch. No. 968,760; Aug. 30; Sp. p. 6249; Gaz. vol. 157; p. 1092.
Petroleum, Refining. J. C. Black. No. 968,640; Aug. 30; Sp. p. 5969; Gaz. vol. 157; p. 1051.
Petroleum, Refining. C. I. Robinson. No. 968,692; Aug. 30; Sp. p. 6112; Gaz. vol. 157; p. 1069.
Petticoat-band-adjusting device. C. H. Lewy. No. 970,068; Sept. 13; Sp. p. 2005; Gaz. vol. 158; p. 340.
Petticoats, Flounce for. D. J. McKenna. No. 948,821; Feb. 8; Sp. p. 2217; Gaz. vol. 151; p. 375.
Phase-splitter. H. H. Cutler. No. 956,686; May 3; Sp. p. 390; Gaz. vol. 154; p. 65.
Phenol sulfonate of opium alkaloids. G. L. Schaefer. No. 963,254; July 5; Sp. p. 586; Gaz. vol. 156; p. 81.
Phenols and aldehydes, Hardening condensation products from. H. Lebach. No. 965,823; July 26; Sp. p. 6106; Gaz. vol. 156; p. 1036.
Phonautographic record and duplicating the same. E. F. Leeds. No. 974,895; Nov. 8; Sp. p. 1841; Gaz. vol. 160; p. 307.
Phonogram-reproducing apparatus. W. F. Messer. No. 961,980; June 21; Sp. p. 3618; Gaz. vol. 155; p. 637.
Phonograms, Duplicating. F. W. Matthews. No. 951,483; Mar. 8; Sp. p. 2088; Gaz. vol. 152; p. 361.
Phonograph. W. H. Hoschke. No. 948,327; Feb. 8; Sp. p. 1138; Gaz. vol. 151; p. 209.
Phonograph. C. M. Hughes. No. 948,328; Feb. 8; Sp. p. 1141; Gaz. vol. 151; p. 209.
Phonograph. P. M. Ravenskilde. No. 948,675; Feb. 8; Sp. p. 1892; Gaz. vol. 151; p. 326.
Phonograph. F. L. Dyer. No. 951,757; Mar. 8; Sp. p. 2626; Gaz. vol. 152; p. 454.
Phonograph. H. T. Oliver. No. 955,424; Apr. 19; Sp. p. 3736; Gaz. vol. 153; p. 656.
Phonograph. R. Berndt. No. 956,671; May 3; Sp. p. 354; Gaz. vol. 154; p. 59.
Phonograph. J. D. Bowers and L. Mayhue. No. 968,530; Aug. 30; Sp. p. 5736; Gaz. vol. 157; p. 1011.
Phonograph. W. H. Miller. No. 976,821; Nov. 22; Sp. p. 6008; Gaz. vol. 160; p. 1015.
Phonograph-cabinet. E. A. Hall. No. 959,522; May 31; Sp. p. 6708; Gaz. vol. 154; p. 1142.
Phonograph-controlling device. C. L. Hibbard. No. 970,223; Sept. 13; Sp. p. 2326; Gaz. vol. 158; p. 391.
Phonograph-diaphragm. P. Weber. No. 975,377; Nov. 8; Sp. p. 2920; Gaz. vol. 160; p. 471.
Phonograph-disk-record cabinet. E. and D. C. Pooler. No. 980,124; Dec. 27; Sp. p. 5878; Gaz. vol. 161; p. 1004.
Phonograph, graphophone, and like instrument. E. G. H. Stein. No. 969,917; Sept. 13; Sp. p. 1673; Gaz. vol. 158; p. 288.
Phonograph-mandrel. H. N. Kistner. No. 973,203; Oct. 18; Sp. p. 3758; Gaz. vol. 159; p. 642.

Phonograph of the wax-cylinder type, Automatic. J. I. Gemmill. No. 978,014; Dec. 6; Sp. p. 1273; Gaz. vol. 161; p. 204.
Phonograph-record blanks, Manufacture of. V. M. Harris. No. 960,320; June 7; Sp. p. 155; Gaz. vol. 155; p. 30.
Phonograph-record blanks, Manufacture of cylindrical. V. M. Harris. (Reissue.) No. 13,067; Jan. 4; Sp. p. 1586; Gaz. vol. 150; p. 244.
Phonograph-record cabinet. N. Jensen. No. 964,867; July 19; Sp. p. 4082; Gaz. vol. 156; p. 681.
Phonograph-record cylinders, Carton for. N. C. Durand and A. M. Seeley. No. 962,821; June 28; Sp. p. 5446; Gaz. vol. 155; p. 952.
Phonograph-record ejector. E. Gilbert. No. 969,946; Sept. 13; Sp. p. 1732; Gaz. vol. 158; p. 297.
Phonograph-record mandrel-sleeve. W. C. Runge. No. 966,771; Aug. 9; Sp. p. 2043; Gaz. vol. 157; p. 340.
Phonograph-record mold. E. L. Aiken. No. 956,922; May 3; Sp. p. 919; Gaz. vol. 154; p. 146.
Phonograph-record trimmer. J. D. Rockhill. No. 974,435; Nov. 1; Sp. p. 808; Gaz. vol. 160; p. 122.
Phonograph-records, Composition for. J. W. Aylsworth. No. 962,878; June 28; Sp. p. 5562; Gaz. vol. 155; p. 973.
Phonograph-reproducer. P. Weber. No. 951,496; Mar. 8; Sp. p. 2110; Gaz. vol. 152; p. 365.
Phonograph-reproducer. R. Head. No. 951,781; Mar. 8; Sp. p. 2677; Gaz. vol. 152; p. 462.
Phonograph-reproducer. P. Weber. (Reissue.) No. 13,120; June 7; Sp. p. 1721; Gaz. vol. 155; p. 286.
Phonograph-reproducer. A. Urbahns. No. 970,142; Sept. 13; Sp. p. 2132; Gaz. vol. 158; p. 363.
Phonograph-reproducer. H. B. McNulty. No. 972,013; Oct. 4; Sp. p. 1106; Gaz. vol. 159; p. 185.
Phonograph-reproducer. T. A. Edison. No. 975,340; Nov. 8; Sp. p. 2842; Gaz. vol. 160; p. 459.
Phonograph sound-box. A. F. Schönwetter. No. 976,502; Nov. 22; Sp. p. 5351; Gaz. vol. 160; p. 908.
Phonographs, Automatic brake for. W. C. Mills. No. 957,570; May 10; Sp. p. 2282; Gaz. vol. 154; p. 395.
Phonographs, Automatic check for. J. J. Morrissey. No. 973,205; Oct. 18; Sp. p. 3762; Gaz. vol. 159; p. 643.
Phonographs, Duplex reproducer for. F. P. Beck. No. 950,428; Feb. 22; Sp. p. 5584; Gaz. vol. 151; p. 979.
Phonographs, Feed apparatus for. J. H. Williams. No. 963,195; July 5; Sp. p. 425; Gaz. vol. 156; p. 60.
Phonographs, &c., Making records for. W. Sanderson. No. 947,777; Jan. 25; Sp. p. 6124; Gaz. vol. 150; p. 1020.
Phonographs, Sound-amplifier for. V. E. D'Urso. No. 956,235; Apr. 26; Sp. p. 5539; Gaz. vol. 153; p. 966.
Phonographic disk records, Device for removing. F. A. Schimanski. No. 972,028; Oct. 4; Sp. p. 1139; Gaz. vol. 159; p. 191.
Phosphate-mill. W. F. Duncker. No. 951,368; Mar. 8; Sp. p. 1848; Gaz. vol. 152; p. 323.
Phosphatic slag and iron, Making. H. Mehner. No. 977,819; Dec. 6; Sp. p. 868; Gaz. vol. 161; p. 137.
Photograph-printing machine. J. H. Cook. No. 950,661; Mar. 1; Sp. p. 426; Gaz. vol. 152; p. 69.
Photographs, engravings, or the like in a dry condition, Mounting. J. Neubronner. No. 956,723; May 3; Sp. p. 479; Gaz. vol. 154; p. 77.
Photographs in colors and causing them to appear stereoscopically, Apparatus for taking. L. Geisler. No. 970,322; Sept. 13; Sp. p. 2519; Gaz. vol. 158; p. 425.
Photographs, Means for printing. S. A. Nielson. No. 959,249; May 24; Sp. p. 6139; Gaz. vol. 154; p. 1026.
Photographs or other pictures, Embossing. A. G. Scopes. No. 957,630; May 10; Sp. p. 2400; Gaz. vol. 154; p. 415.
Photographer's chair. C. E. Herman. No. 947,909; Feb. 1; Sp. p. 274; Gaz. vol. 151; p. 46.
Photographer's extension-rack. P. M. Grandperrin. No. 970,491; Sept. 20; Sp. p. 2871; Gaz. vol. 158; p. 502.
Photographer's printing-frame. G. L. Coursen. No. 973,629; Oct. 25; Sp. p. 4656; Gaz. vol. 159; p. 810.
Photographer's stand. J. S. Pennington. No. 961,641; June 14; Sp. p. 2895; Gaz. vol. 155; p. 501.
Photographer's tray. W. Holtze. No. 979,858; Dec. 27; Sp. p. 5297; Gaz. vol. 161; p. 916.
Photographic apparatus. J. Leonard and W. J. Oldaker. No. 967,025; Aug. 9; Sp. p. 2577; Gaz. vol. 157; p. 423.
Photographic apparatus. A. A. Brooks. No. 967,492; Aug. 16; Sp. p. 3548; Gaz. vol. 157; p. 610.
Photographic apparatus. H. C. Huttebalie and C. Morler. No. 971,447; Sept. 27; Sp. p. 4857; Gaz. vol. 158; p. 850.
Photographic apparatus. H. C. Hebig. No. 972,373; Oct. 11; Sp. p. 1856; Gaz. vol. 159; p. 326.
Photographic apparatus. C. R. Thompson. No. 979,224; Dec. 20; Sp. p. 3939; Gaz. vol. 161; p. 680.
Photographic cabinet. G. S. Moler. No. 979,189; Dec. 20; Sp. p. 3857; Gaz. vol. 161; p. 667.
Photographic color-filter. R. J. Wallace and G. Cramer. No. 961,424; June 14; Sp. p. 2423; Gaz. vol. 155; p. 428.
Photographic dark room, Portable. W. E. Buckley. No. 949,971; Feb. 22; Sp. p. 4616; Gaz. vol. 151; p. 824.
Photographic developing-rack. W. H. Depp. No. 967,114; Aug. 9; Sp. p. 2771; Gaz. vol. 157; p. 454.
Photographic emulsion. Y. Schwartz. No. 962,788; June 28; Sp. p. 5393; Gaz. vol. 155; p. 941.
Photographic emulsion. Y. Schwartz. (Reissue.) No. 13,144; Aug. 16; Sp. p. 4309; Gaz. vol. 157; p. 737.
Photographic emulsion. Y. Schwartz. (Reissue.) No. 13,162; Oct. 25; Sp. p. 5637; Gaz. vol. 159; p. 978.
Photographic-film-developing apparatus. W. F. C. Kelly and T. Bolas. No. 976,810; Nov. 22; Sp. p. 5987; Gaz. vol. 160; p. 1011.
Photographic-film-developing tank. A. C. Hayden. No. 978,156; Dec. 13; Sp. p. 1601; Gaz. vol. 161; p. 284.
Photographic films, Apparatus for handling. F. G. Kugler. No. 971,543; Oct. 4; Sp. p. 73; Gaz. vol. 159; p. 14.
Photographic images in natural colors, Projecting. W. E. Oliver. No. 973,962; Oct. 25; Sp. p. 5332; Gaz. vol. 159; p. 927.
Photographic lenses, Shutter-operating apparatus for. S. Roesner. No. 969,194; Sept. 6; Sp. p. 110; Gaz. vol. 158; p. 18.
Photographic lenses, Shutter-operating device for. S. Roesner. No. 976,217; Nov. 22; Sp. p. 4691; Gaz. vol. 160; p. 807.
Photographic meter-reader. E. C. Pond. No. 975,277; Nov. 8; Sp. p. 2706; Gaz. vol. 160; p. 438.
Photographic meter-reader. E. C. Pond. No. 975,278; Nov. 8; Sp. p. 2709; Gaz. vol. 160; p. 438.
Photographic pictures, Preparing. R. Widmann. No. 962,484; June 28; Sp. p. 4740; Gaz. vol. 155; p. 835.
Photographic-plate holder. J. Becker. No. 975,498; Nov. 15; Sp. p. 3163; Gaz. vol. 160; p. 539.
Photographic-plate holders, Exposure-indicator for. O. Halle. No. 970,494; Sept. 20; Sp. p. 2879; Gaz. vol. 158; p. 503.
Photographic plate or film holder. F. A. Fifield. No. 976,354; Nov. 22; Sp. p. 5036; Gaz. vol. 160; p. 855.
Photographic plates, Drying-rack for. A. N. Pierman. No. 970,108; Sept. 13; Sp. p. 2072; Gaz. vol. 158; p. 352.
Photographic plates, films, and the like, Daylight developing apparatus for. E. H. Smart. No. 955,443; Apr. 19; Sp. p. 3770; Gaz. vol. 153; p. 662.
Photographic plates or flat films, Packing for. M. Romanowicz. No. 951,027; Mar. 1; Sp. p. 1154; Gaz. vol. 152; p. 188.
Photographic print and making same, Colored. F. E. Ives. No. 960,939; June 7; Sp. p. 1392; Gaz. vol. 155; p. 235.
Photographic-print-drying apparatus. J. O. Ellingson. No. 956,319; Apr. 26; Sp. p. 5718; Gaz. vol. 153; p. 995.
Photographic prints, Apparatus for washing. A. D. Alt. No. 974,336; Nov. 1; Sp. p. 590; Gaz. vol. 160; p. 88.
Photographic prints, &c., Device for use in connection with the dry mounting of. G. W. Morgan. No. 948,867; Feb. 8; Sp. p. 2291; Gaz. vol. 151; p. 390.
Photographic-printing apparatus. W. B. Conaway and C. L. Stevens. No. 945,697; Jan. 4; Sp. p. 1469; Gaz. vol. 150; p. 230.
Photographic-printing apparatus. W. C. Huebner. No. 954,290; Apr. 5; Sp. p. 1264; Gaz. vol. 153; p. 209.
Photographic-printing apparatus. W. C. Huebner. No. 954,291; Apr. 5; Sp. p. 1267; Gaz. vol. 153; p. 210.
Photographic-printing apparatus. W. C. Huebner. No. 954,292; Apr. 5; Sp. p. 1273; Gaz. vol. 153; p. 210.
Photographic-printing cabinet. H. D. Mouzon. No. 976,280; Nov. 22; Sp. p. 4869; Gaz. vol. 160; p. 831.
Photographic-printing device. T. A. Patton. No. 960,192; May 31; Sp. p. 8150; Gaz. vol. 154; p. 1371.
Photographic-printing device. S. D. Butcher. No. 964,748; July 19; Sp. p. 3835; Gaz. vol. 156; p. 638.
Photographic-printing frame. D. J. Lindsay. No. 949,125; Feb. 15; Sp. p. 2839; Gaz. vol. 151; p. 502.
Photographic-printing frame. J. H. Heuser. No. 973,783; Oct. 25; Sp. p. 4972; Gaz. vol. 159; p. 864.
Photographic-printing frame. L. Van Hirtum. No. 977,525; Dec. 6; Sp. p. 246; Gaz. vol. 161; p. 36.
Photographic-printing machine. P. R. Johnson. No. 968,953; Aug. 30; Sp. p. 6638; Gaz. vol. 157; p. 1156.
Photographic-printing machine. W. E. Service. No. 970,127; Sept. 13; Sp. p. 2102; Gaz. vol. 158; p. 358.
Photographic-printing machine. G. R. Olson and D. Hiatt. No. 970,742; Sept. 20; Sp. p. 3434; Gaz. vol. 158; p. 589.
Photographic-printing machine. J. J. Shafer. No. 977,138; Nov. 29; Sp. p. 6769; Gaz. vol. 160; p. 1151.
Photographic-printing machine. F. O. Parsons. No. 977,543; Dec. 6; Sp. p. 299; Gaz. vol. 161; p. 44.
Photographic-printing machine. F. P. Stevens. No. 978,955; Dec. 20; Sp. p. 3304; Gaz. vol. 161; p. 584.
Photographic-printing machine, Automatic. G. W. Ferguson. No. 957,665; May 10; Sp. p. 2478; Gaz. vol. 154; p. 428.
Photographic-printing machines, Exposure attachment for. E. N. Kerr. No. 952,334; Mar. 15; Sp. p. 3780; Gaz. vol. 152; p. 676.
Photographic-printing mask. J. Fitz, Jr. No. 960,301; June 7; Sp. p. 122; Gaz. vol. 155; p. 24.
Photographic purposes, Portable inclosure for. O. Pascale. No. 970,104; Sept. 13; Sp. p. 2067; Gaz. vol. 158; p. 351.
Photographic purposes, Sensitized surface or film for. W. H. Caldwell. No. 956,567; May 3; Sp. p. 125; Gaz. vol. 154; p. 23.
Phonographic recording apparatus. T. A. Edison. No. 950,226; Feb. 22; Sp. p. 5203; Gaz. vol. 151; p. 912.
Photographic shutter. G. L. Coursen. No. 946,657; Jan. 18; Sp. p. 3674; Gaz. vol. 150; p. 615.

Alphabetical list of inventions—Continued.

Photographic shutter. P. J. Marks. No. 946,679; Jan. 18; Sp. p. 3724; Gaz. vol. 150; p. 623.
Photographic shutter. A. Wollensak. No. 961,192; June 14; Sp. p. 1919; Gaz. vol. 155; p. 348.
Photographic shutter. J. T. Fisk. No. 973,020; Oct. 18; Sp. p. 3328; Gaz. vol. 159; p. 579.
Photographic shutter. J. T. Fisk. No. 973,021; Oct. 18; Sp. p. 3338; Gaz. vol. 159; p. 579.
Photographic shutter. F. P. Whitehead. No. 976,712; Nov. 22; Sp. p. 5776; Gaz. vol. 160; p. 978.
Photographic tray. W. G. Rice. No. 947,942; Feb. 1; Sp. p. 347; Gaz. vol. 151; p. 56.
Photographic vignetting-machine. W. Butters. No. 964,085; July 12; Sp. p. 2330; Gaz. vol. 156; p. 384.
Photographing on stone. J. E. Chambers. No. 968,645; Aug. 30; Sp. p. 5982; Gaz. vol. 157; p. 1052.
Photography, Color. F. L. Dyer. No. 947,965; Feb. 1; Sp. p. 396; Gaz. vol. 151; p. 63.
Photography, Color. C. P. Christensen. No. 979,129; Dec. 20; Sp. p. 3736; Gaz. vol. 161; p. 647.
Photography, Combined dark slide and developing-dish for color. R. B. Hutton. No. 978,590; Dec. 13; Sp. p. 2558; Gaz. vol. 161; p. 436.
Photography, Making screens for color. C. Späth. No. 946,470; Jan. 11; Sp. p. 3298; Gaz. vol. 150; p. 530.
Photometer. H. Bryhni. No. 959,051; May 24; Sp. p. 5718; Gaz. vol. 154; p. 960.
Photometer. C. H. Sharp and P. S. Millar. No. 960,420; June 7; Sp. p. 366; Gaz. vol. 155; p. 62.
Photometer, Candle-foot. W. D. Ryan. No. 953,765; Apr. 5; Sp. p. 168; Gaz. vol. 153; p. 31.
Photometer, Universal. T. Fujita. No. 961,852; June 21; Sp. p. 3348; Gaz. vol. 155; p. 595.
Photoprinting-cabinet, Automatically-operating variable-time-exposure. J. F. Ware. No. 966,498; Aug. 9; Sp. p. 1400; Gaz. vol. 157; p. 245.
Photoprinting-cabinets, Resiliently-cushioned printing-frame for. J. F. Ware. No. 966,499; Aug. 9; Sp. p. 1407; Gaz. vol. 157; p. 246.
Photoprinting-frame. J. F. Curtis. No. 973,764; Oct. 25; Sp. p. 4932; Gaz. vol. 159; p. 858.
Physician's table. C. N. Leonard. No. 964,170; July 12; Sp. p. 2500; Gaz. vol. 156; p. 411.
Pianissimo device. W. C. Vogel and J. A. Hutchens. No. 963,837; July 12; Sp. p. 1823; Gaz. vol. 156; p. 300.
Pianissimo device. E. Peterson. No. 964,880; July 19; Sp. p. 4109; Gaz. vol. 156; p. 684.
Piano. R. M. Bent. No. 946,320; Jan. 11; Sp. p. 2884; Gaz. vol. 150; p. 478.
Piano. T. Danquard and F. O. Pfannstiehl. No. 948,391; Feb. 8; Sp. p. 1290; Gaz. vol. 151; p. 231.
Piano. H. S. Hornbeck. No. 951,276; Mar. 8; Sp. p. 1646; Gaz vol. 152; p. 292.
Piano. L. W. Norcross. No. 955,096; Apr. 12; Sp. p. 3020; Gaz. vol. 153; p. 512.
Piano. L. M. Cook. No. 962,748; June 28; Sp. p. 5307; Gaz. vol. 155; p. 927.
Piano. W. L. Bjur. No. 966,789; Aug. 9; Sp. p. 2074; Gaz. vol. 157; p. 345.
Piano. F. Kranich and L. P. Bach. No. 968,773; Aug. 30; Sp. p. 6283; Gaz. vol. 157; p. 1096.
Piano-action. F. B. Long. No. 947,644; Jan. 25; Sp. p. 5889; Gaz. vol. 150; p. 977.
Piano-action. H. O. Clark. No. 952,417; Mar. 15; Sp. p. 3933; Gaz. vol. 152; p. 704.
Piano-action. H. O. Clark. No. 954,170; Apr. 5; Sp. p. 1008; Gaz. vol. 153; p. 171.
Piano-action. I. F. Gilmore. No. 967,015; Aug. 9; Sp. p. 2552; Gaz. vol. 157; p. 419.
Piano-action. L. Avisus. No. 973,841; Oct. 25; Sp. p. 5092; Gaz. vol. 159; p. 884.
Piano-action. I. Wrozina. No. 979,729; Dec. 27; Sp. p. 4999; Gaz. vol. 161; p. 872.
Piano action, Grand-. E. Schnabel. No. 954,140; Apr. 5; Sp. p. 916; Gaz. vol. 153; p. 159.
Piano-actions, Extension-bracket for. F. C. Billings. No. 949,876; Feb. 22; Sp. p. 4415; Gaz. vol. 151; p. 790.
Piano-actions, Pianissimo device for. W. C. Vough. No. 952,550; Mar. 22; Sp. p. 4238; Gaz. vol. 152; p. 777.
Piano-agraffe. R. M. Hutchinson. No. 954,189; Apr. 5; Sp. p. 1048; Gaz. vol. 153; p. 177.
Piano attachment for giving mandolin effects. J. Metzger. No. 960,665; June 7; Sp. p. 874; Gaz. vol. 155; p. 144.
Piano, Automatic. L. Griseri. No. 961,122; June 14; Sp. p. 1785; Gaz. vol. 155; p. 323.
Piano, Automatic player-. E. E. Welte. No. 946,297; Jan. 11; Sp. p. 2832; Gaz. vol. 150; p. 471.
Piano-bench, Adjustable. W. C. Binckley. No. 974,018; Oct. 25; Sp. p. 5467; Gaz. vol. 159; p. 947.
Piano-casing. F. Renek. No. 951,620; Mar. 8; Sp. p. 2345; Gaz. vol. 152; p. 407.
Piano, Electrical. R. A. Rose and G. C. Holbrook. No. 962,261; June 21; Sp. p. 4245; Gaz. vol. 155; p. 734.
Piano, Electrical. D. J. Hauss. No. 974,963; Nov. 8; Sp. p. 2020; Gaz. vol. 160; p. 331.
Piano, Enharmonic. F. Sitton. No. 963,256; July 5; Sp. p. 590; Gaz. vol. 156; p. 82.
Piano-flange. E. R. and H. C. Billings. No. 949,875; Feb. 22; Sp. p. 4414; Gaz. vol. 151; p. 790.
Piano-hammer. H. E. Young. No. 959,190; May 24; Sp. p. 6022; Gaz. vol. 154; p. 1006.
Piano hammer heads and shanks, Tool for extracting. A. H. Weberbauer. No. 946,296; Jan. 11; Sp. p. 2829; Gaz. vol. 150; p. 470.
Piano hammer-rail and means for operating the same. G. P. Brand and F. W. Winter. No. 946,006; Jan. 11; Sp. p. 2219; Gaz. vol. 150; p. 368.
Piano-hammers, Removable mold for making. E. T. Wolf. No. 969,826; Sept. 13; Sp. p. 1480; Gaz. vol. 158; p. 256.
Piano-hammers, Removable mold for making. E. T. Wolf. No. 969,827; Sept. 13; Sp. p. 1485; Gaz. vol. 158; p. 256.
Piano-hammers, Tool for removing. J. Knurr, Jr. No. 949,905; Feb. 22; Sp. p. 4484; Gaz. vol. 151; p. 800.
Piano, Horizontal grand player-. N. D. Hosley. No. 957,421; May 10; Sp. p. 1996; Gaz. vol. 154; p. 344.
Piano key-frame, Mouse-proof. C. L. Olds. No. 963,929; July 12; Sp. p. 2006; Gaz. vol. 156; p. 329.
Piano, Keyless. T. P. Brown. No. 948,984; Feb. 8; Sp. p. 2530; Gaz. vol. 151; p. 430.
Piano, Mechanically-operated. F. V. Crofut. No. 964,955; July 19; Sp. p. 4251; Gaz. vol. 156; p. 710.
Piano-panel protector. F. G. W. Paige. No. 962,043; June 21; Sp. p. 3754; Gaz. vol. 155; p. 658.
Piano-pedal. A. J. Bachand. No. 975,670; Nov. 15; Sp. p. 3563; Gaz. vol. 160; p. 599.
Piano pedal-action. E. D. St. John. No. 951,550; Mar. 8; Sp. p. 2215; Gaz. vol. 152; p. 384.
Piano pedal-action. L. W. Norcross. No. 966,232; Aug. 2; Sp. p. 838; Gaz. vol. 157; p. 133.
Piano-pedal extension, Adjustable. H. C. Stickel. No. 969,670; Sept. 6; Sp. p. 1098; Gaz. vol. 158; p. 176.
Piano pedal-lock. J. T. Mayer. No. 945,850; Jan. 11; Sp. p. 1886; Gaz. vol. 150; p. 313.
Piano-plates, Process of and apparatus for casting. A. A. Huseby. No. 978,452; Dec. 13; Sp. p. 2231; Gaz. vol. 161; p. 387.
Piano-player. A. T. Young. No. 963,493; July 5; Sp. p. 1059; Gaz. vol. 156; p. 161.
Piano, Player-. S. L. Dickinson. No. 972,346; Oct. 11; Sp. p. 1798; Gaz. vol. 159; p. 316.
Piano, Player-. E. C. Hiscock. No. 974,884; Nov. 8; Sp. p. 1819; Gaz. vol. 160; p. 303.
Piano, Player-. E. C. Hiscock. No. 974,885; Nov. 8; Sp. p. 1823; Gaz. vol. 160; p. 303.
Piano-player actions, Adjustable valve for. C. L. Davis. No. 961,939; June 21; Sp. p. 3535; Gaz. vol. 155; p. 623.
Piano-player and talking-machine, Combined. W. M. Davis. No. 958,731; May 24; Sp. p. 5017; Gaz. vol. 154; p. 849.
Piano-player, Automatic. A. A. Aarons. No. 973,839; Oct. 25; Sp. p. 5087; Gaz. vol. 159; p. 884.
Piano-player, Automatic. C. E. Gittins. No. 979,470; Dec. 27; Sp. p. 4430; Gaz. vol. 161; p. 783.
Piano-player, Electric. W. H. Smith. No. 979,715; Dec. 27; Sp. p. 4951; Gaz. vol. 161; p. 868.
Piano, Player grand. W. F. Cooper. No. 967,330; Aug. 16; Sp. p. 3199; Gaz. vol. 157; p. 555.
Piano-players, Automatic adjustable spool for music-sheets for mechanical. H. G. Miller. No. 979,536; Dec. 27; Sp. p. 4569; Gaz. vol. 161; p. 806.
Piano-players, Tracker-board for. M. F. Holderman. No. 957,774; May 10; Sp. p. 2700; Gaz. vol. 154; p. 464.
Piano-playing mechanism. H. F. Goldsmith. No. 967,148; Aug. 9; Sp. p. 2838; Gaz. vol. 157; p. 465.
Piano-shield. M. J. Bean. No. 947,784; Feb. 1; Sp. p. 15; Gaz. vol. 151; p. 5.
Piano-swell. S. W. Clark. No. 950,276; Feb. 22; Sp. p. 5304; Gaz. vol. 151; p. 929.
Piano touch-regulator. W. S. Thompson and C. W. Bahr. No. 956,448; Apr. 26; Sp. p. 5986; Gaz. vol. 153; p. 1039.
Piano-tuning appliance. F. Huggins. No. 977,094; Nov. 29; Sp. p. 6666; Gaz. vol. 160; p. 1135.
Piano tuning-pins, strings, &c., Protective strip for. H. J. Weiler. No. 972,420; Oct. 11; Sp. p. 1960; Gaz. vol. 159; p. 344.
Piano-violin. H. Schlemmer. No. 953,103; Mar. 29; Sp. p. 5427; Gaz. vol. 152; p. 994.
Piano-violin. L. Breitenmoser. No. 953,589; Mar. 29; Sp. p. 6480; Gaz. vol. 152; p. 1158.
Piano, Violin-. P. Romero. No. 966,049; Aug. 2; Sp. p. 447; Gaz. vol. 157; p. 72.
Piano-violins, Ring-bow for. G. K. Hennig. No. 946,775; Jan. 18; Sp. p. 3942; Gaz. vol. 150; p. 656.
Piano without strings. M. Noeth. No. 950,794; Mar. 1; Sp. p. 722; Gaz. vol. 152; p. 115.
Pianos, Action for pneumatic player-. C. Berglund and W. C. Webb. No. 949,612; Feb. 15; Sp. p. 3825; Gaz. vol. 151; p. 666.
Pianos and similar musical instruments, Combined spool and spool-holder for autopneumatic. F. Engelhardt. No. 968,035; Aug. 23; Sp. p. 4668; Gaz. vol. 157; p. 815.
Pianos and the like, Attachment for. A. D. Palmer. No. 956,502; Apr. 26; Sp. p. 6110; Gaz. vol. 153; p. 1058.
Pianos, Coin-controlled actuating mechanism for autopneumatic. A. J. Hobart. No. 958,125; May 17; Sp. p. 3657; Gaz. vol. 154; p. 617.
Pianos, Coin-controlled actuating mechanism for autopneumatic. E. D. Carney. No. 974,355; Nov. 1; Sp. p. 639; Gaz. vol. 160; p. 95.
Pianos, Combined music-rack and front panel for. L. W. Norcross. No. 949,806; Feb. 22; Sp. p. 4237; Gaz. vol. 151; p. 764.

Pianos, Electrical self-playing attachment for. I. B. Smith. No. 959,032; May 24; Sp. p. 5673; Gaz. vol. 154; p. 954.
Pianos, Expression mechanism for. P. Welin. No. 945,888; Jan. 11; Sp. p. 1965; Gaz. vol. 150; p. 327.
Pianos, Expression mechanism for self-playing. P. Wuest, Jr. No. 965,354; July 26; Sp. p. 5090; Gaz. vol. 156; p. 874.
Pianos, Key-frame for. J. P. Caulfield. No. 952,509; Mar. 22; Sp. p. 4138; Gaz. vol. 152; p. 762.
Pianos, Key-lock for auto-. W. F. Bayer. No. 971,657; Oct. 4; Sp. p. 306; Gaz. vol. 159; p. 55.
Pianos, Music-roll holder for mechanically-operated. I. B. Smith. No. 945,056; Jan. 4; Sp. p. 100; Gaz. vol. 150; p. 18.
Pianos, Music-roll producer for self-playing. D. M. Cloak. No. 961,754; June 21; Sp. p. 3124; Gaz. vol. 155; p. 563.
Pianos, organs, or other instruments, Fall-board for. C. F. Reeps. No. 974,093; Oct. 25; Sp. p. 5608; Gaz. vol. 159; p. 971.
Pianos, Pedal mechanism for pneumatically-operated. A. G. Gulbransen. No. 972,182; Oct. 11; Sp. p. 1463; Gaz. vol. 159; p. 261.
Pianos, Player for. A. T. Young. No. 971,956; Oct. 4; Sp. p. 995; Gaz. vol. 159; p. 166.
Pianos, Pumper-pedal action for interior player-. C. Warren. No. 963,262; July 5; Sp. p. 606; Gaz. vol. 156; p. 84.
Pianos, Repetition-action for grand. L. Charpiat. No. 959,716; May 31; Sp. p. 7103; Gaz. vol. 154; p. 1206.
Pianos, &c., Rewinding and speed-regulating mechanism for pneumatic actions for. O. Nelson. No. 972,633; Oct. 11; Sp. p. 2461; Gaz. vol. 159; p. 419.
Pianos, Tempo-controller for automatic. A. H. Stuart. No. 962,537; June 28; Sp. p. 4857; Gaz. vol. 155; p. 854.
Pianos, Top-stick for grand. P. Weber. No. 962,605; June 28; Sp. p. 5014; Gaz. vol. 155; p. 877.
Pianoforte. C. Vincent. No. 956,003; Apr. 26; Sp. p. 5011; Gaz. vol. 153; p. 886.
Pianoforte-action. G. C. Snyder. No. 969,121; Aug. 30; Sp. p. 6976; Gaz. vol. 157; p. 1214.
Pianoforte action, Upright-. R. Streich. No. 945,113; Jan. 4; Sp. p. 220; Gaz. vol. 150; p. 37.
Pick. J. Kukuruda. No. 964,976; July 19; Sp. p. 4296; Gaz. vol. 156; p. 717.
Picker: *See* Cherry-picker; Corn-picker; Cotton-picker; Fruit-picker; Grape, &c., picker; Slate-picker.
Picker-stick. T. F. Arzt. No. 970,979; Sept. 20; Sp. p. 3915; Gaz. vol. 158; p. 669.
Picker-stick. E. H. Nabhan. No. 971,625; Oct. 4; Sp. p. 249; Gaz. vol. 159; p. 44.
Picker-sticks, Cushioning-stop for. J. Northrop. No. 973,132; Oct. 18; Sp. p. 3572; Gaz. vol. 159; p. 617.
Picking-machine. J. S. Richards. No. 946,273; Jan. 11; Sp. p. 2780; Gaz. vol. 150; p. 462.
Picking mechanism. L. E. Mellor and F. W. Cole. No. 976,673; Nov. 22; Sp. p. 5706; Gaz. vol. 160; p. 965.
Pickling apparatus. J. T. Au Werter. No. 959,195; May 24; Sp. p. 6031; Gaz. vol. 154; p. 1008.
Pickpocket-detector. M. Wald. No. 947,047; Jan. 18; Sp. p. 4536; Gaz. vol. 150; p. 748.
Picture. A. E. Kennedy. No. 959,754; May 31; Sp. p. 7183; Gaz. vol. 154; p. 1219.
Picture and like mount. K. and J. Wright. No. 952,292; Mar. 15; Sp. p. 3702; Gaz. vol. 152; p. 662.
Picture apparatus, Fireproof receptacle for films of moving-. G. J. Gilmore. No. 976,067; Nov. 15; Sp. p. 4318; Gaz. vol. 160; p. 733.
Picture apparatus, Motion-. D. C. Woodworth. No. 959,675; May 31; Sp. p. 7028; Gaz. vol. 154; p. 1194.
Picture-card. J. A. Weingart. No. 968,721; Aug. 30; Sp. p. 6171; Gaz. vol. 157; p. 1078.
Picture-card, Mechanical. J. M. Walcutt. No. 969,315; Sept. 6; Sp. p. 338; Gaz. vol. 158; p. 56.
Picture-exhibiting apparatus, Moving-. F. L Dyer and D. Holden. No. 963,125; July 5; Sp. p. 255; Gaz. vol. 156; p. 34.
Picture-exhibiting device. C. L. Willoughby and J. Jacobson. No. 954,555; Apr. 12; Sp. p. 1834; Gaz. vol. 153; p. 328.
Picture-exhibitor. B. Phelps. No. 970,947; Sept. 20; Sp. p. 3853; Gaz. vol. 158; p. 658.
Picture exhibitors, Motor attachment for motion-. J. Chambless. No. 973,917; Oct. 25; Sp. p. 5255; Gaz. vol. 159; p. 911.
Picture film, Motion-. A. L. Clawson. No. 958,367; May 17; Sp. p. 4300; Gaz. vol. 154; p. 702.
Picture film-reel mechanism, Motion-. W. B. Swindell. No. 970,570; Sept. 20; Sp. p. 3041; Gaz. vol. 158; p. 530.
Picture films, Apparatus for preparing moving-. G. E. Hoglund. No. 971,889; Oct. 4; Sp. p. 812; Gaz. vol. 159; p. 140.
Picture films, Apparatus for printing moving-. F. L. Dyer and D. Holden. No. 970,614; Sept. 20; Sp. p. 3127; Gaz. vol. 158; p. 545.
Picture-films, Coating. F. B. Thompson. No. 970,972; Sept. 20; Sp. p. 3896; Gaz. vol. 158; p. 666.
Picture-films, Magazine for. G. W. Ryder. No. 956,178; Apr. 26; Sp. p. 5399; Gaz. vol. 153; p. 947.
Picture-frame. B. Silfa. No. 954,351; Apr. 5; Sp. p. 1394; Gaz. vol. 153; p. 231.
Picture-frame. J. E. Carlson. No. 964,391; July 12; Sp. p. 2936; Gaz. vol. 156; p. 485.
Picture-frame. F. W. Williams. No. 975,094; Nov. 8; Sp. p. 2292; Gaz. vol. 160; p. 375.
Picture-frame, Illuminating. P. Roberts. No. 947,127; Jan. 18; Sp. p. 4682; Gaz. vol. 150; p. 773.
Picture-frame, Knockdown adjustable. E. J. Dreisbach. No. 965,377; July 26; Sp. p. 5132; Gaz. vol. 156; p. 880.
Picture-frame support. C. E. Johnson. No. 961,614; June 14; Sp. p. 2841; Gaz. vol. 155; p. 491.
Picture-hanger. W. H. Fraser. No. 947,678; Jan. 25; Sp. p. 5942; Gaz. vol. 150; p. 988.
Picture-hanger. J. A. Darden. No. 955,854; Apr. 26; Sp. p. 4687; Gaz. vol. 153; p. 833.
Picture-hanger. G. Johnson. No. 961,616; June 14; Sp. p. 2848; Gaz. vol. 155; p. 492.
Picture-hanger, Adjustable. J. A. Darden. No. 964,400; July 12; Sp. p. 2952; Gaz. vol. 156; p. 487.
Picture-holder. W. E. McMullen. No. 953,053; Mar. 29; Sp. p. 5300; Gaz. vol. 152; p. 977.
Picture machine, Motion-. F. Knott. No. 969,288; Sept. 6; Sp. p. 290; Gaz. vol. 158; p. 47.
Picture machine, Moving-. F. A. Cole. No. 947,095; Jan. 18; Sp. p. 4625; Gaz. vol. 150; p. 764.
Picture machine, Moving-. L. Nesemann. No. 955,189; Apr. 19; Sp. p. 3211; Gaz. vol. 153; p. 577.
Picture machine, Moving-. C. J. Paulson. No. 957,246; May 10; Sp. p. 1615; Gaz. vol. 154; p. 285.
Picture machine, Moving-. E. H. Sperberg. No. 961,655; June 14; Sp. p. 2919; Gaz. vol. 155; p. 505.
Picture machine, Moving-. C. E. Dressler and F. Klett. No. 963,531; July 5; Sp. p. 1145; Gaz. vol. 156; p. 174.
Picture machine, Moving-. G. W. Bingham. No. 963,741; July 12; Sp. p. 1589; Gaz. vol. 156; p. 267.
Picture machine, Moving-. A. E. Smith. No. 971,155; Sept. 27; Sp. p. 4286; Gaz. vol. 158; p. 755.
Picture machine, Moving-. G. W. Bingham. No. 971,588; Oct. 4; Sp. p. 167; Gaz. vol. 159; p. 31.
Picture machine, Moving-. G. W. Bingham. No. 971,589; Oct. 4; Sp. p. 171; Gaz. vol. 159; p. 31.
Picture machine, Moving-. G. E. Hoglund. No. 971,891; Oct. 4; Sp. p. 815; Gaz. vol. 159; p. 141.
Picture machine, Moving-. J. Keller. No. 971,898; Oct. 4; Sp. p. 837; Gaz. vol. 159; p. 143.
Picture machine, Moving-. E. H. Sperberg. No. 972,142; Oct. 4; Sp. p. 1358; Gaz. vol. 159; p. 229.
Picture machine, Moving-. A. F. Victor. No. 976,954; Nov. 29; Sp. p. 6354; Gaz. vol. 160; p. 1088.
Picture machines, Adjusting mechanism for moving-. W. N. Selig. No. 948,654; Feb. 8; Sp. p. 1851; Gaz. vol. 151; p. 319.
Picture machines, Film-reel for moving-. T. Sharlow. No. 971,317; Sept. 27; Sp. p. 4614; Gaz. vol. 158; p. 808.
Picture machines, Light-shield for moving-. J. J. Pink. No. 956,166; Apr. 26; Sp. p. 5373; Gaz. vol. 153; p. 943.
Picture machines, Reflector for moving-. C. J. Paulson. No. 947,256; Jan. 25; Sp. p. 4966; Gaz. vol. 150; p. 845.
Picture-molding, Sanitary. C. W. Beall and O. R. Bonner. No. 963,982; July 12; Sp. p. 2120; Gaz. vol. 156; p. 347.
Picture-moldings to walls, Means for securing. F. C. Borgmeyer. No. 950,365; Feb. 22; Sp. p. 5461; Gaz. vol. 151; p. 957.
Picture post-card or display device. A. S. Spiegel. No. 946,407; Jan. 11; Sp. p. 3160; Gaz. vol. 150; p. 508.
Picture-projecting apparatus. P. R. Deutschman and A. J. Kruse. No. 963,876; July 12; Sp. p. 1904; Gaz. vol. 156; p. 315.
Picture-projecting apparatus. M. Klaiber. No. 968,667; Aug. 30; Sp. p. 6033; Gaz. vol. 157; p. 1060.
Picture taking, viewing, or projecting apparatus, Moving-. F. von Madaler. No. 966,342; Aug. 2; Sp. p. 1027; Gaz. vol. 157; p. 166.
Picture, Trick-. H. G. Pelstring. No. 965,321; July 26; Sp. p. 5012; Gaz. vol. 156; p. 863.
Pictures and similar articles, Device for hanging. S. Rothstein. No. 969,195; Sept. 6; Sp. p. 115; Gaz. vol. 158; p. 18.
Pictures by the movement of vehicles, Apparatus for producing animated. W. Czerniewski. No. 978,854; Dec. 20; Sp. p. 3073; Gaz. vol. 161; p. 546.
Pictures, Device for viewing moving. T. A. Edison. No. 964,097; July 12; Sp. p. 2362; Gaz. vol. 156; p. 387.
Pictures in frames, Tool for nailing. R. B. Mimmack. No. 956,128; Apr. 26; Sp. p. 5291; Gaz. vol. 153; p. 929.
Pictures in natural colors, Exhibiting motion-. W. E. Oliver. No. 973,961; Oct. 25; Sp. p. 5330; Gaz. vol. 159; p. 926.
Pictures, Machine for the production of mosaic. E. Karažej and A. Regal. No. 949,902; Feb. 22; Sp. p. 4471; Gaz. vol. 151; p. 799.
Pictures, Making. A. C. G. Williams-Foote. No. 968,301; Aug. 23; Sp. p. 5262; Gaz. vol. 157; p. 906.
Pictures or characters, Apparatus for reproducing. G. E. Hoglund. No. 970,820; Sept. 20; Sp. p. 3619; Gaz. vol. 158; p. 618.
Pictures, Producing colored films for animated. G. E. Hoglund. No. 971,890; Oct. 4; Sp. p. 814; Gaz. vol. 159; p. 140.
Pictures, Screen for displaying projected. M. Ganzini. No. 970,913; Sept. 20; Sp. p. 3790; Gaz. vol. 158; p. 647.

Alphabetical list of inventions—Continued.

Pictures to stones and the like, Transferring printed and other. A. L. de Rooÿ. No. 960,707; June 7; Sp. p. 953; Gaz. vol. 155; p. 158.
Pictures upon fabrics, Producing. H. Spiegel. No. 978,500; Dec. 13; Sp. p. 2341; Gaz. vol. 161; p. 404.
Pie-crust-forming machine. O. Colborne. No. 956,683; May 3; Sp. p. 384; Gaz. vol. 154; p. 64.
Pie-crust-rimming machine. O. Colborne. No. 945,913; Jan. 11; Sp. p. 2024; Gaz. vol. 150; p. 336.
Pie-filling composition, Making. E. J. Mar Lett. No. 951,504; Mar. 8; Sp. p. 2124; Gaz. vol. 152; p. 368.
Pie-filling machine. O. Colborne. No. 956,684; May 3; Sp. p. 385; Gaz. vol. 154; p. 64.
Pie-making machine. D. K. Allison. No. 946,092; Jan. 11; Sp. p. 2389; Gaz. vol. 150; p. 398.
Piece goods, Apparatus for piling. J. W. Banks. No. 958,579; May 17; Sp. p. 4717; Gaz. vol. 154; p. 774.
Pig-handling apparatus. J. F. Schnabel. No. 977,046; Nov. 29; Sp. p. 6556; Gaz. vol. 160; p. 1119.
Pigment. A. Lüttringhaus. No. 968,376; Aug. 23; Sp. p. 5408; Gaz. vol. 157; p. 933.
Pigment. A. Moffatt. No. 973,373; Oct. 18; Sp. p. 4108; Gaz. vol. 159; p. 701.
Pigment-color. F. Runkel and M. Herzberg. No. 972,130; Oct. 4; Sp. p. 1333; Gaz. vol. 159; p. 224.
Pigment with basis of calcium cyanamid and making same. R. Fulloni. No. 957,153; May 3; Sp. p. 1384; Gaz. vol. 154; p. 222.
Pigments, Making. A. Moffatt. No. 973,374; Oct. 18; Sp. p. 4110; Gaz. vol. 159; p. 701.
Pigments, Preparing. F. M. Becket. No. 976,337; Nov. 22; Sp. p. 5000; Gaz. vol. 160; p. 849.
Pile. L. E. Welsh. No. 951,668; Mar. 8; Sp. p. 2450; Gaz. vol. 152; p. 424.
Pile. L. E. Welsh. No. 955,729; Apr. 19; Sp. p. 4411; Gaz. vol. 153; p. 761.
Pile. G. X. Wendling. No. 968,214; Aug. 23; Sp. p. 5081; Gaz. vol. 157; p. 875.
Pile. L. E. Welsh. No. 975,488; Nov. 15; Sp. p. 3140; Gaz. vol. 160; p. 536.
Pile. L. E. Welsh. No. 976,324; Nov. 22; Sp. p. 4957; Gaz. vol. 160; p. 845.
Pile and making the same. J. H. Cranford. No. 969,136; Aug. 30; Sp. p. 7012; Gaz. vol. 157; p. 1219.
Pile and means for driving the same. L. E. Welsh. No. 975,487; Nov. 15; Sp. p. 3137; Gaz. vol. 160; p. 536.
Pile and pile structure. F. A. Noullet. No. 963,061; July 5; Sp. p. 66; Gaz. vol. 156; p. 13.
Pile case or former, Collapsible. T. Bilyeu. No. 967,879; Aug. 23; Sp. p. 4321; Gaz. vol. 157; p. 762.
Pile-casings, Fitting for. F. A. Koetitz. No. 954,973; Apr. 12; Sp. p. 2798; Gaz. vol. 153; p. 474.
Pile-construction device. C. J. Fensom. No. 945,086; Jan. 4; Sp. p. 168; Gaz. vol. 150; p. 28.
Pile fabric. G. Crossland. No. 971,527; Oct. 4; Sp. p. 34; Gaz. vol. 159; p. 8.
Pile fabric and weaving the same. M. J. Whittall. No. 948,384; Feb. 8; Sp. p. 1277; Gaz. vol. 151; p. 229.
Pile-driving, Apparatus for subaqueous. O. Hoff. No. 972,192; Oct. 11; Sp. p. 1485; Gaz. vol. 159; p. 264.
Pile-driving machine. E. D. Tompkins. No. 962,080; June 21; Sp. p. 3840; Gaz. vol. 155; p. 673.
Pile, Ferroconcrete. R. Wolle. No. 961,191; June 14; Sp. p. 1918; Gaz. vol. 155; p. 348.
Pile or timber covering. T. Moran. No. 967,952; Aug. 23; Sp. p. 4470; Gaz. vol. 157; p. 787.
Pile-protecting. J. Rowe and M. McCarty. No. 967,442; Aug. 16; Sp. p. 3433; Gaz. vol. 157; p. 592.
Pile-shoe. J. A. Steinmetz. No. 973,887; Oct. 25; Sp. p. 5195; Gaz. vol. 159; p. 902.
Piles, Constructing. J. B. Goldsborough. No. 961,492; June 14; Sp. p. 2590; Gaz. vol. 155; p. 451.
Piling. E. A. Bern. No. 950,608; Mar. 1; Sp. p. 303; Gaz. vol. 152; p. 50.
Piling. J. J. Jones. No. 976,573; Nov. 22; Sp. p. 5514; Gaz. vol. 160; p. 932.
Piling cap, Sheet-. W. H. Warrington. No. 960,746; June 7; Sp. p. 1023; Gaz. vol. 155; p. 173.
Piling, Composite. C. C. Conkling. No. 969,343; Sept. 6; Sp. p. 402; Gaz. vol. 158; p. 65.
Piling, Driving-cap for sheet-. R. B. Woodworth. No. 956,015; Apr. 26; Sp. p. 5035; Gaz. vol. 153; p. 890.
Piling in water, Appliance for oil preservation of. O. Quist. No. 978,643; Dec. 13; Sp. p. 2673; Gaz. vol. 161; 454.
Piling, Metal. J. J. Harold. No. 949,473; Feb. 15; Sp. p. 3558; Gaz. vol. 151; p. 620.
Piling, Metal sheet-. F. N. Kneas. No. 957,169; May 3; Sp. p. 1425; Gaz. vol. 154; p. 228.
Piling, Metal sheet-. C. C. Conkling and C. S. Boardman. No. 968,450; Aug. 23; Sp. p. 5551; Gaz. vol. 157; p. 958.
Piling, Steel sheet-. C. C. Conkling. No. 965,157; July 26; Sp. p. 4664; Gaz. vol. 156; p. 807.
Pillow. J. L. Kennedy. No. 958,502; May 17; Sp. p. 4565; Gaz. vol. 154; p. 749.
Pillow-sham holder. J. M. Babcock. No. 957,455; May 10; Sp. p. 2057; Gaz. vol. 154; p. 357.
Pillow-sham holder and bolster-roll, Combined. A. Guth. No. 964,469; July 12; Sp. p. 3096; Gaz. vol. 156; p. 508.
Pillow-sham-holding device. M. F. Frakes. No. 978,148; Dec. 13; Sp. p. 1589; Gaz. vol. 161; p. 282.
Pills for the treatment of diabetes mellitus. A. Heinemann. No. 960,914; June 7; Sp. p. 1351; Gaz. vol. 155; p. 227.
Pilot-burner. S. W. Morrow, Jr. No. 977,531; Dec. 6; Sp. p. 268; Gaz. vol. 161; p. 39.
Pilot-switch, Automatic. B. Settecase. No. 953,238; Mar. 29; Sp. p. 5723; Gaz. vol. 152; p. 1037.
Pin: *See* Belt-pin; Bonding-pin; Clothes-pin; Cuff-pin; Dowel-pin; Hair-pin; Hat-pin; Rolling-pin; Safety-pin; Scarf-pin; Wrist-pin.
Pin. J. T. Berger. No. 945,260; Jan. 4; Sp. p. 530; Gaz. vol. 150; p. 87.
Pin. J. C. Pettee. No. 945,412; Jan. 4; Sp. p. 884; Gaz. vol. 150; p. 137.
Pin. F. M. Swartz. No. 948,775; Feb. 8; Sp. p. 2120; Gaz. vol. 151; p. 360.
Pin. E. R. Crecelius. No. 950,894; Mar. 1; Sp. p. 906; Gaz. vol. 152; p. 145.
Pin. S. Fischer and W. H. Pruefer. No. 955,453; Apr. 19; Sp. p. 3793; Gaz. vol. 153; p. 666.
Pin. J. H. Reed. No. 958,311; May 17; Sp. p. 4185; Gaz. vol. 154; p. 682.
Pin, J. A. McGann. No. 961,366; June 14; Sp. p. 2317; Gaz. vol. 155; p. 410.
Pin. C. Kuehner. No. 962,360; June 21; Sp. p. 4448; Gaz. vol. 155; p. 767.
Pin. W. H. Rice. No. 969,807; Sept. 13; Sp. p. 1435; Gaz. vol. 158; p. 249.
Pin and joint. E. A. Phinney. No. 966,763; Aug. 9; Sp. p. 2026; Gaz. vol. 157; p. 337.
Pin-fastener. G. Stach. No. 950,031; Feb. 22; Sp. p. 4808; Gaz. vol. 151; p. 846.
Pin safety-catch. S. J. McMillen. No. 958,422; May 17; Sp. p. 4408; Gaz. vol. 154; p. 721.
Pin-setter. J. Dombrouski. No. 953,323; Mar. 29; Sp. p. 5892; Gaz. vol. 152; p. 1064.
Pin setting and spotting device. G. H. Poetsch. No. 946,784; Jan. 18; Sp. p. 3961; Gaz. vol. 150; p. 658.
Pin-spotter. G. S. Lewis and W. M. Farrow, Jr. No. 955,416; Apr. 19; Sp. p. 3718; Gaz. vol. 153; p. 653.
Pin-tongue joint. A. C. Stone. No. 964,330; July 12; Sp. p. 2823; Gaz. vol. 156; p. 466.
Pin-tray. C. F. Brown. No. 960,622; June 7; Sp. p. 790; Gaz. vol. 155; p. 129.
Pin-tumbler lock. C. H. Thomas. No. 946,710; Jan. 18; Sp. p. 3787; Gaz. vol. 150; p. 633.
Pin-tumbler lock. P. F. Augenbraun. No. 966,295; Aug. 2; Sp. p. 953; Gaz. vol. 157; p. 152.
Pins, Making. H. Wolcott. No. 973,153; Oct. 18; Sp. p. 3627; Gaz. vol. 159; p. 624.
Pinless switch. H. S. Goughnour. No. 946,349; Jan. 11; Sp. p. 2939; Gaz. vol. 150; p. 488.
Pinning-machine. S. E. Greenberg. No. 979,758; Dec. 27; Sp. p. 5065; Gaz. vol. 161; p. 882.
Pincers. R. P. Hansen. No. 966,015; Aug. 2; Sp. p. 368; Gaz. vol. 157; p. 59.
Pincers, Lasting-. G. O. Barbour. No. 974,626; Nov. 1; Sp. p. 1251; Gaz. vol. 160; p. 192.
Pincers, Lasting-. G. O. Barbour. No. 974,627; Nov. 1; Sp. p. 1254; Gaz. vol. 160; p. 193.
Pinion-cutting machine, Automatic. A. H. Neureuther. No. 953,752; Apr. 5; Sp. p. 141; Gaz. vol. 153; p. 27.
Pinion-cutting machine, Automatic. A. H. Neureuther. No. 953,753; Apr. 5; Sp. p. 143; Gaz. vol. 153; p. 27.
Pipe: *See* Blowpipe; Cast-iron pipe; Concrete pipe; Connecting-pipe; Culvert-pipe; Exhaust-pipe; Furnace-heat-conductor pipe; Irrigation-pipe; Locomotive exhaust-pipe; Metal pipe; Musical pipe; Organ-pipe; Porous pipe; Pulp pipe; Sheet-metal pipe; Smoker's pipe; Smoking-pipe; Sprinkling-pipe; Stovepipe; Tobacco-pipe; Tobacco-smoking pipe; Tub waste-pipe; Water-pipe.
Pipe. M. Rheinauer. No. 948,550; Feb. 8; Sp. p. 1627; Gaz. vol. 151; p. 284.
Pipe. G. Bradley. No. 955,048; Apr. 12; Sp. p. 2941; Gaz. vol. 153; p. 498.
Pipe. C. A. Lord. No. 958,264; May 17; Sp. p. 3944; Gaz. vol. 154; p. 664.
Pipe. W. H. Storrs. No. 961,042; June 7; Sp. p. 1616; Gaz. vol. 155; p. 270.
Pipe. J. F. Bengert. No. 961,575; June 14; Sp. p. 2760; Gaz. vol. 155; p. 478.
Pipe and making the same. J. B. Blaw. No. 967,163; Aug. 16; Sp. p. 2871; Gaz. vol. 157; p. 497.
Pipe and nut wrench. P. Masterson. No. 974,408; Nov. 1; Sp. p. 738; Gaz. vol. 160; p. 112.
Pipe and rod gripping device. J. Kemmler. No. 964,432; July 12; Sp. p. 3017; Gaz. vol. 156; p. 497.
Pipe and the like cutter. J. R. Hamilton. No. 969,858; Sept. 13; Sp. p. 1553; Gaz. vol. 158; p. 267.
Pipe and tile mold. G. Kesling. No. 950,567; Mar. 1; Sp. p. 224; Gaz. vol. 152; p. 37.
Pipe attachment. A. Marr. No. 954,316; Apr. 5; Sp. p. 1322; Gaz. vol. 153; p. 219.
Pipe attachment. A. J. Tizley. No. 974,209; Nov. 1; Sp. p. 242; Gaz. vol. 160; p. 39.
Pipe attachment. W. E. Tait. No. 975,584; Nov. 15; Sp. p. 3359; Gaz. vol. 160; p. 570.
Pipe-bending machine. G. H. Reynolds. No. 976,599; Nov. 22; Sp. p. 5565; Gaz. vol. 160; p. 941.
Pipe-bending machine. B. W. Tucker and T. F. Oechsle. No. 979,724; Dec. 27; Sp. p. 4972; Gaz. vol. 161; p. 871.

Pipe, cigar-holder, &c. J. R. Perry. No. 948,634; Feb. 8; Sp. p. 1812; Gaz. vol. 151; p. 312.
Pipe-clamp. J. G. Rountree. No. 953,234; Mar. 29; Sp. p. 5707; Gaz. vol. 152; p. 1036.
Pipe-cleaner. G. N. Cragin. No. 949,622; Feb. 15; Sp. p. 3842; Gaz. vol. 151; p. 670.
Pipe-cleaner. H. P. Stewart. No. 957,389; May 10; Sp. p. 1920; Gaz. vol. 154; p. 334.
Pipe-cleaner. F. R. Cunningham. No. 961,215; June 14; Sp. p. 1980; Gaz. vol. 155; p. 358.
Pipe-cleaner. E. H. Weber. No. 963,965; July 12; Sp. p. 2086; Gaz. vol. 156; p. 340.
Pipe-cleaner. H. Lowry. No. 978,316; Dec. 13; Sp. p. 1952; Gaz. vol. 161; p. 340.
Pipe cleaner, Waste-. W. P. La Rose. No. 977,656; Dec. 6; Sp. p. 535; Gaz. vol. 161; p. 81.
Pipe-cleaning apparatus. W. A. Hall. No. 949,891; Feb. 22; Sp. p. 4454; Gaz. vol. 151; p. 796.
Pipe-cleaning apparatus, Gas-. F. W. C. Schniewind. No. 976,933; Nov. 29; Sp. p. 6296; Gaz. vol. 160; p. 1080.
Pipe-cleaning apparatus, Water-. N. S. Hill, Jr., and B. B. Hodgman. No. 971,042; Sept. 27; Sp. p. 4058; Gaz. vol. 158; p. 719.
Pipe-cleaning device and piston therefor. C. Inglee. No. 953,666; Mar. 29; Sp. p. 6639; Gaz. vol. 152; p. 1184.
Pipe-cleaning machine. C. L. Jobb. No. 952,201; Mar. 15; Sp. p. 3501; Gaz. vol. 152; p. 630.
Pipe-coils, Making long. L. C. Schneider. No. 972,928; Oct. 18; Sp. p. 3131; Gaz. vol. 159; p. 547.
Pipe connection. R. M. Corcoran. No. 956,294; Apr. 26; Sp. p. 5663; Gaz. vol. 153; p. 986.
Pipe connection. F. L. Sehnert and G. J. McManus. No. 960,204; May 31; Sp. p. 8170; Gaz. vol. 154; p. 1375.
Pipe connection. G. R. Bard. No. 963,498; July 5; Sp. p. 1071; Gaz. vol. 156; p. 163.
Pipe-coupling. J. E. Ward. No. 945,298; Jan. 4; Sp. p. 639; Gaz. vol. 150; p. 99.
Pipe-coupling. J. E. Costa. No. 947,711; Jan. 25; Sp. p. 6005; Gaz. vol. 150; p. 999.
Pipe-coupling. F. C. Pahlow. No. 949,329; Feb. 15; Sp. p. 3243; Gaz. vol. 151; p. 571.
Pipe-coupling. C. Forth. No. 950,665; Mar. 1; Sp. p. 434; Gaz. vol. 152; p. 70.
Pipe-coupling. C. R. Schmidt. No. 951,704; Mar. 8; Sp. p. 2500; Gaz. vol. 152; p. 435.
Pipe-coupling. W. H. Teuer. No. 951,889; Mar. 15; Sp. p. 2918; Gaz. vol. 152; p. 528.
Pipe-coupling. W. R. Willetts. No. 954,068; Apr. 5; Sp. p. 775; Gaz. vol. 153; p. 134.
Pipe-coupling. J. A. Fleming. No. 954,177; Apr. 5; Sp. p. 1020; Gaz. vol. 153; p. 173.
Pipe-coupling. W. F. Drew. No. 954,504; Apr. 12; Sp. p. 1728; Gaz. vol. 153; p. 310.
Pipe-coupling. W. A. Turner. No. 954,549; Apr. 12; Sp. p. 1817; Gaz. vol. 153; p. 326.
Pipe-coupling. J. R. Morris. No. 955,663; Apr. 19; Sp. p. 4270; Gaz. vol. 153; p. 738.
Pipe-coupling. M. F. Richardson. No. 955,828; Apr. 19; Sp. p. 4602; Gaz. vol. 153; p. 795.
Pipe-coupling. T. C. Grierson. No. 959,854; May 31; Sp. p. 7405; Gaz. vol. 154; p. 1255.
Pipe-coupling. O. E. Oleson. No. 959,960; May 31; Sp. p. 7659; Gaz. vol. 154; p. 1292.
Pipe-coupling. L. Miller. No. 960,667; June 7; Sp. p. 878; Gaz. vol. 155; p. 145.
Pipe-coupling. C. Guyer. No. 960,899; June 7; Sp. p. 1326; Gaz. vol. 155; p. 223.
Pipe-coupling. R. R. Rust. No. 961,987; June 21; Sp. p. 3636; Gaz. vol. 155; p. 639.
Pipe-coupling. W. H. Goss. No. 964,238; July 12; Sp. p. 2636; Gaz. vol. 156; p. 434.
Pipe-coupling. V. S. Perazio. No. 964,310; July 12; Sp. p. 2783; Gaz. vol. 156; p. 459.
Pipe-coupling. F. W. Reed. No. 964,315; July 12; Sp. p. 2789; Gaz. vol. 156; p. 460.
Pipe-coupling. J. Clark. No. 964,609; July 19; Sp. p. 3453; Gaz. vol. 156; p. 591.
Pipe-coupling. A. Lang. No. 966,928; Aug. 9; Sp. p. 2372; Gaz. vol. 157; p. 388.
Pipe-coupling. J. N. Goodall. No. 969,358; Sept. 6; Sp. p. 438; Gaz. vol. 158; p. 71.
Pipe-coupling. F. N. Cronholm. No. 969,943; Sept. 13; Sp. p. 1728; Gaz. vol. 158; p. 296.
Pipe-coupling. F. Sargent. No. 977,226; Nov. 29; Sp. p. 6954; Gaz. vol. 160; p. 1182.
Pipe-coupling. C. P. Higgins. No. 977,740; Dec. 6; Sp. p. 706; Gaz. vol. 161; p. 110.
Pipe-coupling. W. S. Sutton. No. 978,957; Dec. 20; Sp. p. 3323; Gaz. vol. 161; p. 585.
Pipe-coupling. H. Mueller. No. 980,116; Dec. 27; Sp. p. 5854; Gaz. vol. 161; p. 1001.
Pipe coupling, Air-. W. J. Ellis. No. 950,663; Mar. 1; Sp. p. 430; Gaz. vol. 152; p. 70.
Pipe-coupling and valve, Combined. J. N. Goodall and F. S. Head. No. 960,309; June 7; Sp. p. 135; Gaz. vol. 155; p. 26.
Pipe-coupling, Automatic. I. Seidel. No. 966,131; Aug. 2; Sp. p. 598; Gaz. vol. 157; p. 99.
Pipe coupling, Automatic train-. R. A. Fontaine. No. 945,158; Jan. 4; Sp. p. 305; Gaz. vol. 150; p. 52.
Pipe coupling, Automatic train-. O. C. Blair. No. 955,045; Apr. 12; Sp. p. 2935; Gaz. vol. 153; p. 497.
Pipe coupling, Automatic train-. M. Segal and F. C. Walker. No. 976,402; Nov. 22; Sp. p. 5148; Gaz. vol. 160; p. 873.
Pipe-coupling clamping-ring. J. Clark. No. 946,933; Jan. 18; Sp. p. 4327; Gaz. vol. 150; p. 711.
Pipe-coupling for cars, Automatic. F. H. Harpster. No. 950,263; Feb. 22; Sp. p. 5276; Gaz. vol. 151; p. 925.
Pipe coupling for cars, Steam and air. R. B. Painton. No. 961,638; June 14; Sp. p. 2891; Gaz. vol. 155; p. 500.
Pipe-coupling, Insulated. S. E. Peeples. No. 969,492; Sept. 6; Sp. p. 723; Gaz. vol. 158; p. 114.
Pipe coupling, Train-. R. M. Dixon. No. 948,312; Feb. 8; Sp. p. 1111; Gaz. vol. 151; p. 204.
Pipe coupling, Train-. H. W. Thomas. No. 949,046; Feb. 15; Sp. p. 2678; Gaz. vol. 151; p. 477.
Pipe coupling, Train-. J. Hough and W. L. Turner. No. 952,905; Mar. 22; Sp. p. 5000; Gaz. vol. 152; p. 899.
Pipe coupling, Train-. R. A. Jewett and A. L. Greenlaw. No. 961,699; June 14; Sp. p. 2997; Gaz. vol. 155; p. 520.
Pipe coupling, Train-. A. L. Lindh. No. 963,599; July 5; Sp. p. 1282; Gaz. vol. 156; p. 197.
Pipe coupling, Train-. S. P. Foster. No. 966,393; Aug. 2; Sp. p. 1130; Gaz. vol. 157; p. 182.
Pipe coupling, Train-. T. Reynolds. No. 971,147; Sept. 27; Sp. p. 4273; Gaz. vol. 158; p. 752.
Pipe coupling, Train-. J. E. Marble. No. 974,088; Oct. 25; Sp. p. 5596; Gaz. vol. 159; p. 970.
Pipe coupling, Train-. H. O. Witwer. No. 977,917; Dec. 6; Sp. p. 1077; Gaz. vol. 161; p. 171.
Pipe coupling, Train-. J. and C. E. Sullivan. No. 980,135; Dec. 27; Sp. p. 5904; Gaz. vol. 161; p. 1008.
Pipe-couplings, Clamping-ring for. W. W. Price. No. 953,799; Apr. 5; Sp. p. 234; Gaz. vol. 153; p. 42.
Pipe-couplings, Uncoupling mechanism for. C. L. Courson. No. 968,131; Aug. 23; Sp. p. 4882; Gaz. vol. 157; p. 841.
Pipe-covering. W. Sherwood. No. 951,342; Mar. 8; Sp. p. 1789; Gaz. vol. 152; p. 314.
Pipe-covering. J. B. d'Homergue. No. 952,117; Mar. 15; Sp. p. 3349; Gaz. vol. 152; p. 603.
Pipe crushing and shearing machine. F. I. Ellis. No. 955,117; Apr. 12; Sp. p. 3059; Gaz. vol. 153; p. 518.
Pipe-cutter. G. A. Barnes. No. 963,729; July 5; Sp. p. 1559; Gaz. vol. 156; p. 240.
Pipe cutting and threading machine. P. Neff. No. 978,190; Dec. 13; Sp. p. 1680; Gaz. vol. 161; p. 295.
Pipe-cutting machine. C. A. Olson. No. 979,551; Dec. 27; Sp. p. 4606; Gaz. vol. 161; p. 810.
Pipe-drawing machine. F. A. Schuster. No. 977,135; Nov. 29; Sp. p. 6761; Gaz. vol. 160; p. 1151.
Pipe-dredge. T. J. Lovett. No. 967,797; Aug. 16; Sp. p. 4153; Gaz. vol. 157; p. 711.
Pipe-end closure. M. W. Pitner. No. 959,385; May 24; Sp. p. 6405; Gaz. vol. 154; p. 1071.
Pipe-end closure. W. R. Jeavons. No. 968,853; Aug. 30; Sp. p. 6435; Gaz. vol. 157; p. 1121.
Pipe-filling device, Tobacco-. A. Falk. No. 975,026; Nov. 8; Sp. p. 2161; Gaz. vol. 160; p. 352.
Pipe-fitting. D. S. Ramelli. No. 963,248; July 5; Sp. p. 576; Gaz. vol. 156; p. 79.
Pipe fitting, Drain-. G. W. Berry. No. 957,487; May 10; Sp. p. 2113; Gaz. vol. 154; p. 367.
Pipe fitting, Drainage-. E. D. Tucker. No. 955,109; Apr. 12; Sp. p. 3038; Gaz. vol. 153; p. 516.
Pipe-fittings, Making curved wrought-metal. L. H. Brinkman. No. 953,253; Mar. 29; Sp. p. 5759; Gaz. vol. 152; p. 1043.
Pipe-forming machinery, Spiral-. J. H. Taylor. No. 972,731; Oct. 11; Sp. p. 2655; Gaz. vol. 159; p. 451.
Pipe-grapple. C. Kass. No. 975,250; Nov. 8; Sp. p. 2655; Gaz. vol. 160; p. 429.
Pipe-grip. F. M. Kenoyer. No. 963,584; July 5; Sp. p. 1251; Gaz. vol. 156; p. 192.
Pipe-hanger. A. A. Noyes. No. 948,902; Feb. 8; Sp. p. 2365; Gaz. vol. 151; p. 402.
Pipe-hanger. R. C. Hunter. No. 949,576; Feb. 15; Sp. p. 3765; Gaz. vol. 151; p. 654.
Pipe-hanger. E. Williams. No. 950,978; Mar. 1; Sp. p. 1077; Gaz. vol. 152; p. 173.
Pipe-hanger. G. H. Tarleton. No. 952,053; Mar. 15; Sp. p. 3233; Gaz. vol. 152; p. 582.
Pipe-hanger. E. H. Roberts. No. 971,077; Sept. 27; Sp. p. 4140; Gaz. vol. 158; p. 730.
Pipe-hanger. W. H. Mack. No. 978,912; Dec. 20; Sp. p. 3197; Gaz. vol. 161; p. 568.
Pipe-holder, Wipe-joint. C. D. Hunt. No. 979,305; Dec. 20; Sp. p. 4100; Gaz. vol. 161; p. 706.
Pipe-jack. P. Thibodeau. No. 968,096; Aug. 23; Sp. p. 4808; Gaz. vol. 157; p. 835.
Pipe-joint. A. T. Pflugh. No. 964,052; July 12; Sp. p. 2263; Gaz. vol. 156; p. 372.
Pipe-joint. D. R. Burns. No. 964,208; July 12; Sp. p. 2569; Gaz. vol. 156; p. 423.
Pipe-joint. W. Christy. No. 967,611; Aug. 16; Sp. p. 3782; Gaz. vol. 157; p. 650.
Pipe-joint. J. R. Tanner and D. B. Banks. No. 969,422; Sept. 6; Sp. p. 581; Gaz. vol. 158; p. 92.

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Pipe-joint. J. R. Tanner and D. B. Banks. No. 969,423; Sept. 6; Sp. p. 582; Gaz. vol. 158; p. 93.
Pipe-joint. C. R. McKibben. No. 972,119; Oct. 4; Sp. p. 1303; Gaz. vol. 159; p. 221.
Pipe-joint. C. Revaillot. No. 974,517; Nov. 1; Sp. p. 1022; Gaz. vol. 160; p. 152.
Pipe-joint connection, Steam-. E. C. Colson. No. 956,290; Apr. 26; Sp. p. 5657; Gaz. vol. 153; p. 985.
Pipe-joint-filling device. F. J. Hatch. No. 948,686; Feb. 8; Sp. p. 1920; Gaz. vol. 151; p. 329.
Pipe-joint, Flexible. A. G. Elvin. No. 946,025; Jan. 11; Sp. p. 2254; Gaz. vol. 150; p. 375.
Pipe-joint, Flexible. G. F. Barron. No. 954,496; Apr. 12; Sp. p. 1715; Gaz. vol. 153; p. 308.
Pipe-joint, Flexible. W. A. Greenlaw. No. 978,876; Dec. 20; Sp. p. 3124; Gaz. vol. 161; p. 554.
Pipe-joint, Flexible. J. Koenig. No. 979,513; Dec. 27; Sp. p. 4515; Gaz. vol. 161; p. 797.
Pipe-joint-packing machine. C. E. Miller, Jr. No. 947,837; Feb. 1; Sp. p. 99; Gaz. vol. 151; p. 21.
Pipe-line-cleaning device. J. Maslin. No. 945,971; Jan. 11; Sp. p. 2148; Gaz. vol. 150; p. 357.
Pipe-line system. I. Lightcap. No. 973,794; Oct. 25; Sp. p. 4995; Gaz. vol. 159; p. 868.
Pipe-lining apparatus. J. O. Persons. No. 952,545; Mar. 22; Sp. p. 4226; Gaz. vol. 152; p. 775.
Pipe-loading machine. C. Jordan. No. 960,227; May 31; Sp. p. 8214; Gaz. vol. 154; p. 1383.
Pipe-machine. C. R. Burlingame. No. 948,104; Feb. 1; Sp. p. 678; Gaz. vol. 151; p. 110.
Pipe-machine. W. Barnett. No. 970,677; Sept. 20; Sp. p. 3292; Gaz. vol. 158; p. 567.
Pipe, Machine for forming continuous. J. L. Wiggins. No. 952,489; Mar. 22; Sp. p. 4107; Gaz. vol. 152; p. 756.
Pipe-making apparatus. J. R. McWane. No. 955,423; Apr. 19; Sp. p. 3731; Gaz. vol. 153; p. 655.
Pipe-molding flask. J. R. McWane. No. 961,367; June 14; Sp. p. 2319; Gaz. vol. 155; p. 410.
Pipe mouthpiece, Multiple-jet-. C. Kunzelmann, Sr. No. 979,771; Dec 27; Sp. p. 5088; Gaz. vol. 161; p. 886.
Pipe nipple and clamp. C. E. Maxfield. No. 961,247; June 14; Sp. p. 2221; Gaz. vol. 155; p. 368.
Pipe opening and closing apparatus, Gas-. K. Höffler. No. 950,393; Feb. 22; Sp. p. 5514; Gaz. vol. 151; p. 966.
Pipe or hose coupling. J. H. Phillips, Jr. No. 946,396; Jan. 11; Sp. p. 3130; Gaz. vol. 150; p. 504.
Pipe or rod connector. A. F. Miller. No. 961,981; June 21; Sp. p. 3621; Gaz. vol. 155; p. 637.
Pipe or rod connector. A. F. Miller. No. 961,982; June 21; Sp. p. 3623; Gaz. vol. 155; p. 638.
Pipe-pit. J. R. McWane. No. 967,038; Aug. 9; Sp. p. 2604; Gaz. vol. 157; p. 427.
Pipe-puller. J. Anderson. No. 969,508; Sept. 6; Sp. p. 755; Gaz. vol. 158; p. 119.
Pipe-pulling machine. C. D. Shorts. No. 951,621; Mar. 8; Sp. p. 2348; Gaz. vol. 152; p. 407.
Pipe-pusher. W. H. Abbott and H. G. Baker. No. 968,022; Aug. 23; Sp. p. 4640; Gaz. vol. 157; p. 810.
Pipe-reamer. P. Neerup. No. 979,786; Dec. 27; Sp. p. 5123; Gaz. vol. 161; p. 891.
Pipe, Removing scale from. H. A. F. Petersen. No. 962,462; June 28; Sp. p. 4694; Gaz. vol. 155; p. 828.
Pipe-scouring means. D. H. Murphy. No. 969,179; Sept. 6; Sp. p. 76; Gaz. vol. 158; p. 13.
Pipe sections, End joint for corrugated-. F. M. Doak. No. 946,207; Jan. 11; Sp. p. 2630; Gaz. vol. 150; p. 437.
Pipe-sections, Joint for connecting. P. J. McCabe. No. 974,804; Nov. 8; Sp. p. 1642; Gaz. vol. 160; p. 275.
Pipe-stem. M. Kolf. No. 952,337; Mar. 15; Sp. p. 3787; Gaz. vol. 152; p. 677.
Pipe-straightening rolls. W. Bark. No. 978,813; Dec. 13; Sp. p. 2992; Gaz. vol. 161; p. 507.
Pipe support and clamp. D. Williams. No. 958,052; May 17; Sp. p. 3466; Gaz. vol. 154; p. 593.
Pipe-supporting device, Train-. H. T. Krakau. No. 964,436; July 12; Sp. p. 3024; Gaz. vol. 156; p. 499.
Pipe system, Hydraulic-power. C. A. Compton. No. 955,945; Apr. 26; Sp. p. 4884; Gaz. vol. 153; p. 864.
Pipe-threading dies, Self-centering work and die holder for. E. L. Troup. No. 957,721; May 10; Sp. p. 2585; Gaz. vol. 154; p. 447.
Pipe-threading machine. D. C. Walter and E. L. Troup. No. 948,102; Feb. 1; Sp. p. 671; Gaz. vol. 151; p. 109.
Pipe-threading machine. E. A. Hoefer. No. 948,394; Feb. 8; Sp. p. 1295; Gaz. vol. 151; p. 232.
Pipe-threading machine. W. W. Vosper. No. 971,941; Oct. 4; Sp. p. 947; Gaz. vol. 159; p. 160.
Pipe-threading tool. J. B. Phillips. No. 952,629; Mar. 22; Sp. p. 4419; Gaz. vol. 152; p. 806.
Pipe-threading tools, Work-holder for. B. Borden. No. 949,031; Feb. 15; Sp. p. 2649; Gaz. vol. 151; p. 471.
Pipe-threading tools, Work-holder for. I. W. Nonneman. No. 953,971; Apr. 5; Sp. p. 564; Gaz. vol. 153; p. 102.
Pipe-union. F. C. Blanchard and E. B. Crocker. No. 959,702; May 31; Sp. p. 7079; Gaz. vol. 154; p. 1202.
Pipe-union. A. W. Cash and C. Rorabeck. No. 962,075; June 21; Sp. p. 3830; Gaz. vol. 155; p. 671.
Pipe-union. C. J. Luther. No. 974,504; Nov. 1; Sp. p. 986; Gaz. vol. 160; p. 146.
Pipe-union. J. T. Kelly. No. 974,975; Nov. 8; Sp. p. 2055; Gaz. vol. 160; p. 335.
Pipe-union guard. L. R. Fogg. No. 968,759; Aug. 30; Sp. p. 6248; Gaz. vol. 157; p. 1092.
Pipe-wrench. J. R. Morris. No. 947,081; Jan. 18; Sp. p. 4599; Gaz. vol. 150; p. 759.
Pipe-wrench. J. F. Wright. No. 949,107; Feb. 15; Sp. p. 2798; Gaz. vol. 151; p. 495.
Pipe-wrench. S. A. Whetzel. No. 949,557; Feb. 15; Sp. p. 3723; Gaz. vol. 151; p. 648.
Pipe-wrench. W. S. Miehle. No. 951,570; Mar. 8; Sp. p. 2247; Gaz. vol. 152; p. 390.
Pipe-wrench. A. M. Hall. No. 953,610; Mar. 29; Sp. p. 6524; Gaz. vol. 152; p. 1165.
Pipe-wrench. A. Tréand. No. 956,453; Apr. 26; Sp. p. 5997; Gaz. vol. 153; p. 1041.
Pipe-wrench. W. M. Potter. No. 960,699; June 7; Sp. p. 937; Gaz. vol. 155; p. 156.
Pipe-wrench. A. Kondás and P. Bajusz. No. 962,359; June 21; Sp. p. 4447; Gaz. vol. 155; p. 767.
Pipe-wrench. P. T. Greenwood. No. 965,890; Aug. 2; Sp. p. 98; Gaz. vol. 157; p. 16.
Pipe-wrench. P. E. Erickson. No. 966,182; Aug. 2; Sp. p. 733; Gaz. vol. 157; p. 116.
Pipe-wrench. W. T. Bennett. No. 966,300; Aug. 2; Sp. p. 960; Gaz. vol. 157; p. 153.
Pipe-wrench. J. F. Tiner. No. 970,574; Sept. 20; Sp. p. 3051; Gaz. vol. 158; p. 531.
Pipe-wrench. A. L. Melchert. No. 970,731; Sept. 20; Sp. p. 3406; Gaz. vol. 158; p. 584.
Pipe-wrench. A. A. O'Donnell. No. 972,903; Oct. 18; Sp. p. 3058; Gaz. vol. 159; p. 539.
Pipe-wrench. L. R. Blackmore. No. 974,019; Oct. 25; Sp. p. 5468; Gaz. vol. 159; p. 948.
Pipe-wrench. L. R. Blackmore. No. 974,020; Oct. 25; Sp. p. 5469; Gaz. vol. 159; p. 948.
Pipe-wrench. R. O. Dohm. No. 977,788; Dec. 6; Sp. p. 811; Gaz. vol. 161; p. 126.
Pipe-wrench. T. J. Nicholson. No. 977,896; Dec. 6; Sp. p. 1032; Gaz. vol. 161; p. 164.
Pipe-wrench. R. A. Bowen. No. 978,818; Dec. 13; Sp. p. 2999; Gaz. vol. 161; p. 508.
Pipe wrench and cutter, Combined. G. G. Brown. No. 946,103; Jan. 11; Sp. p. 2410; Gaz. vol. 150; p. 401.
Pipe-wrench, Chain. G. Amborn. No. 952,860; Mar. 22; Sp. p. 4913; Gaz. vol. 152; p. 884.
Pipes and the like, Regulating apparatus for hot-water. R. Brukenhaus. No. 961,402; June 14; Sp. p. 2377; Gaz. vol. 155; p. 420.
Pipes, Animal-guard for. J. Bartlett. No. 961,834; June 21; Sp. p. 3305; Gaz. vol. 155; p. 589.
Pipes, Apparatus for boning or laying drain-. J. M. Lockhart and H. J. Jenkinson. No. 961,244; June 14; Sp. p. 2035; Gaz. vol. 155; p. 367.
Pipes, Apparatus for clearing obstructions from drain and other. W. Haddock. No. 977,005; Nov. 29; Sp. p. 6480; Gaz. vol. 160; p. 1105.
Pipes, Apparatus for forming castings about. J. Lawson. No. 952,821; Mar. 22; Sp. p. 4840; Gaz. vol. 152; p. 871.
Pipes, Apparatus for making cast-iron. F. A. Field. No. 952,893; Mar. 22; Sp. p. 4972; Gaz. vol. 152; p. 895.
Pipes, Automatic connector for train-. P. Beahm. No. 956,468; Apr. 26; Sp. p. 6025; Gaz. vol. 153; p. 1046.
Pipes, Automatic pressure-controller for water and other. I. G. Fosler. No. 974,563; Nov. 1; Sp. p. 1131; Gaz. vol. 160; p. 170.
Pipes, Covering. E. A. Kellam. No. 970,235; Sept. 13; Sp. p. 2347; Gaz. vol. 158; p. 396.
Pipes, Device for clearing waste-. R. A. Sommerville. No. 964,575; July 19; Sp. p. 3385; Gaz. vol. 156; p. 578.
Pipes, &c., Jointing. J. G. Stewart. No. 978,504; Dec. 13; Sp. p. 2347; Gaz. vol. 161; p. 405.
Pipes, Machine for the manufacture of earthenware. M. Yarrow. No. 953,887; Apr. 5; Sp. p. 401; Gaz. vol. 153; p. 73.
Pipes, Means for cushioning hydraulic pressure in feed-. R. D. Johnson. No. 962,355; June 21; Sp. p. 4440; Gaz. vol. 155; p. 765.
Pipes, Metallic connection for automatic connectors for train-. P. Beahm. No. 959,290; May 24; Sp. p. 6217; Gaz. vol. 154; p. 1039.
Pipes or mains, Device for forming joints in. M. Yarrow. No. 978,346; Dec. 13; Sp. p. 2015; Gaz. vol. 161; p. 351.
Pipes, rods, &c., Coupling for. J. E. Harriman, Jr., and J. F. Hendrickson. No. 954,957; Apr. 12; Sp. p. 2762; Gaz. vol. 153; p. 468.
Pipes, Roof-collar for vent-. C. L. Holt. No. 969,476; Sept. 6; Sp. p. 683; Gaz. vol. 158; p. 108.
Pipes, shafts, &c., Coupling for. A. H. Neller. No. 970,737; Sept. 20; Sp. p. 3425; Gaz. vol. 158; p. 587.
Pipes to gas or other mains, Securing the ends of service-. B. R. Parkinson. No. 968,258; Aug. 23; Sp. p. 5169; Gaz. vol. 157; p. 891.
Pipes, Treating metal. J. S. Patterson. No. 950,341; Feb. 22; Sp. p. 5429; Gaz. vol. 151; p. 951.
Pipes, valves, &c., at fixed intervals, Apparatus for the automatic opening and closing of. H. Jacobi. No. 957,341; May 10; Sp. p. 1830; Gaz. vol. 154; p. 319.
Pipes, Wall-box for air-. M. E. Danforth. No. 945,707; Jan. 4; Sp. p. 1496; Gaz. vol. 150; p. 234.
Piping, Heat-exchange. G. Hildebrandt. No. 979,762; Dec. 27; Sp. p. 5077; Gaz. vol. 161; p. 884.

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Piping, Safety device for. J. Koenig. No. 945,552; Jan. 4; Sp. p. 1186; Gaz. vol. 150; p. 183.
Pistol. G. A. Hansen. No. 965,386; July 26; Sp. p. 5148; Gaz. vol. 156; p. 883.
Pistol, Automatic. F. I. Johnson. No. 967,928; Aug. 23; Sp. p. 4427; Gaz. vol. 157; p. 779.
Pistol, Automatic. C. P. Clément. No. 970,307; Sept. 13; Sp. p. 2492; Gaz. vol. 158; p. 420.
Pistol, Automatic. H. Rosier. No. 970,645; Sept. 20; Sp. p. 3226; Gaz. vol. 158; p. 555.
Pistol, Coin-shooting. T. Zenz. No. 966,288; Aug. 2; Sp. p. 944; Gaz. vol. 157; p. 150.
Pistol-grip. L. H. Cobb. No. 966,165; Aug. 2; Sp. p. 697; Gaz. vol. 157; p. 110.
Pistol, Magazine-. C. A. Pattison. No. 947,718; Jan. 25; Sp. p. 6014; Gaz. vol. 150; p. 1001.
Pistols, Safety-stop for automatic. J. H. Wesson. No. 978,092; Dec. 6; Sp. p. 1443; Gaz. vol. 161; p. 233.
Piston. F. C. Blanchard. No. 949,993; Feb. 22; Sp. p. 4706; Gaz. vol. 151; p. 831.
Piston. F. L. Nichols. No. 953,389; Mar. 29; Sp. p. 6062; Gaz. vol. 152; p. 1088.
Piston. A. L. Mowry. No. 957,984; May 17; Sp. p. 3225; Gaz. vol. 154; p. 567.
Piston. E. T. Adams. No. 961,080; June 7; Sp. p. 1702; Gaz. vol. 155; p. 283.
Piston. E. Talbot. No. 975,301; Nov. 8; Sp. p. 2768; Gaz. vol. 160; p. 447.
Piston and piston-valve. R. Allen. No. 965,355; July 26; Sp. p. 5092; Gaz. vol. 156; p. 874.
Piston-coupling. W. G. Schaeffer. No. 972,651; Oct. 11; Sp. p. 2490; Gaz. vol. 159; p. 424.
Piston, Cylinder-. E. W. Phillips. No. 956,163; Apr. 26; Sp. p. 5363; Gaz. vol. 153; p. 942.
Piston mechanism, Multiple. R. J. McCarty. No. 977,816; Dec. 6; Sp. p. 863; Gaz. vol. 161; p. 136.
Piston-ring. W. A. Reinhardt. No. 949,660; Feb. 15; Sp. p. 3911; Gaz. vol. 151; p. 681.
Piston-ring. J. Stoddard. No. 962,599; June 28; Sp. p. 4999; Gaz. vol. 155; p. 875.
Piston-rod connection. P. M. Van Bosch. No. 974,935; Nov. 8; Sp. p. 1944; Gaz. vol. 160; p. 321.
Piston, Water-meter. J. C. Kelley. No. 950,636; Mar. 1; Sp. p. 370; Gaz. vol. 152; p. 60.
Pitcher, Syrup-. S. N. Kandlbinder. No. 955,170; Apr. 19; Sp. p. 3175; Gaz. vol. 153; p. 570.
Pitchfork. H. D. O'Connor. No. 951,329; Mar. 8; Sp. p. 1764; Gaz. vol. 152; p. 310.
Pitchfork attachment. C. A. Duprey. No. 976,348; Nov. 22; Sp. p. 5024; Gaz. vol. 160; p. 853.
Pitchfork, Pressed-sheet-metal. I. Szalai. No. 967,854; Aug. 16; Sp. p. 4268; Gaz. vol. 157; p. 730.
Pitman. W. Paterson. No. 947,740; Jan. 25; Sp. p. 6052; Gaz. vol. 150; p. 1009.
Pitman. J. T. Kilby. No. 970,929; Sept. 20; Sp. p. 3824; Gaz. vol. 158; p. 652.
Pitman. G. E. Smith. No. 973,715; Oct. 25; Sp. p. 4841; Gaz. vol. 159; p. 841.
Pitman, Adjustable. C. Vogel. No. 972,585; Oct. 11; Sp. p. 2351; Gaz. vol. 159; p. 402.
Pitman connection. W. N. Parkes. No. 957,474; May 10; Sp. p. 2090; Gaz. vol. 154; p. 362.
Pivot-light. A. H. Lent. No. 967,205; Aug. 16; Sp. p. 2959; Gaz. vol. 157; p. 512.
Pivot-light. A. H. Lent. No. 967,206; Aug. 16; Sp. p. 2960; Gaz. vol. 157; p. 512.
Pivot-light. A. H. Lent. No. 967,207; Aug. 16; Sp. p. 2960; Gaz. vol. 157; p. 512.
Pivot-light. P. B. Donahoo. No. 967,620; Aug. 16; Sp. p. 3801; Gaz. vol. 157; p. 653.
Pivot-light. P. B. Donahoo. No. 967,621; Aug. 16; Sp. p. 3802; Gaz. vol. 157; p. 653.
Placer-separator. D. J. Forbes. No. 975,684; Nov. 15; Sp. p. 3581; Gaz. vol. 160; p. 603.
Placket-openings in undergarments, Machine for trimming and cutting. A. H. Morrison. No. 979,684; Dec. 27; Sp. p. 4890; Gaz. vol. 161; p. 857.
Plaiting and bobbin machine. M. Ebeling and J. Herzog. No. 957,317; May 10; Sp. p. 1778; Gaz. vol. 154; p. 310.
Plane. E. A. Schade. No. 955,556; Apr. 19; Sp. p. 4004; Gaz. vol. 153; p. 702.
Plane. E. A. Schade. No. 955,557; Apr. 19; Sp. p. 4006; Gaz. vol. 153; p. 702.
Plane. C. Bodmer. No. 960,256; June 7; Sp. p. 26; Gaz. vol. 155; p. 8.
Plane. C. B. Rice. No. 972,645; Oct. 11; Sp. p. 2481; Gaz. vol. 159; p. 422.
Plane, Block-. W. H. Kyte. No. 951,135; Mar. 8; Sp. p. 1365; Gaz. vol. 152; p. 248.
Plane, Carpenter's. R. Tilles. No. 965,766; July 26; Sp. p. 5982; Gaz. vol. 156; p. 1016.
Plane, Carpenter's. W. H. Crosby. No. 978,360; Dec. 13; Sp. p. 2038; Gaz. vol. 161; p. 355.
Plane-guide. W. T. Whiteway. No. 949,691; Feb. 15; Sp. p. 3965; Gaz. vol. 151; p. 691.
Plane, Rabbeting-. J. W. Montague. No. 978,471; Dec. 13; Sp. p. 2269; Gaz. vol. 161; p. 394.
Planer. W. G. Kleinfelder. No. 945,958; Jan. 11; Sp. p. 2126; Gaz. vol. 150; p. 353.
Planer attachment. F. Allner and E. N. Boswell. No. 960,480; June 7; Sp. p. 475; Gaz. vol. 155; p. 80.
Planer attachment for jointers. D. M. Paddock. No. 971,553; Oct. 4; Sp. p. 91; Gaz. vol. 159; p. 18.
Planer-head bits, Holding device for. B. D. Stevens. No. 954,146; Apr. 5; Sp. p. 943; Gaz. vol. 153; p. 162.
Planer, Plate-. A. Wood. No. 963,348; July 5; Sp. p. 772; Gaz. vol. 156; p. 113.
Planing-machine. F. Schuldes. No. 968,198; Aug. 23; Sp. p. 5044; Gaz. vol. 157; p. 869.
Planing-machines, Sectional chip-breaker for. W. R. Buss. No. 954,376; Apr. 5; Sp. p. 1435; Gaz. vol. 153; p. 239.
Planing machines, Stock-scraper for wood-. H. A. Perkins. No. 963,246; July 5; Sp. p. 568; Gaz. vol. 156; p. 78.
Planing machines, Work-feeding apparatus for wood-. C. W. H. Blood. No. 953,814; Apr. 5; Sp. p. 267; Gaz. vol. 153; p. 47.
Planetarium. A. Laing. No. 958,139; May 17; Sp. p. 3688; Gaz. vol. 154; p. 623.
Planetary transmission mechanism. C. F. W. Tabler. No. 956,227; Apr. 26; Sp. p. 5522; Gaz. vol. 153; p. 963.
Planimeter. F. C. Blanchard, E. B. Crocker, and P. G. Darling. No. 961,836; June 21; Sp. p. 3308; Gaz. vol. 155; p. 590.
Plank, Extension-. C. C. Andersen. No. 962,691; June 28; Sp. p. 5186; Gaz. vol. 155; p. 906.
Plant-bench for hothouses. J. O'Donoghue. No. 972,220; Oct. 11; Sp. p. 1567; Gaz. vol. 159; p. 275.
Plant-carrier. E. E. Husted. No. 955,164; Apr. 19; Sp. p. 3164; Gaz. vol. 153; p. 568.
Plant-protecting shed. F. Momburg. No. 963,920; July 12; Sp. p. 1987; Gaz. vol. 156; p. 326.
Plant-protector. A. G. McAdie. No. 947,519; Jan. 25; Sp. p. 5628; Gaz. vol. 150; p. 935.
Plant-protector. F. S. Erdly. No. 951,807; Mar. 15; Sp. p. 2740; Gaz. vol. 152; p. 500.
Plant-protector. G. T. Wells. No. 963,099; July 5; Sp. p. 169; Gaz. vol. 156; p. 25.
Plant-setter. J. J. Kleeberger. No. 974,077; Oct. 25; Sp. p. 5576; Gaz. vol. 159; p. 966.
Plant-stand, Adjustable. J. M. Hamm. No. 949,535; Feb. 15; Sp. p. 3686; Gaz. vol. 151; p. 640.
Plant-support. L. W. Nied. No. 959,789; May 31; Sp. p. 7266; Gaz. vol. 154; p. 1231.
Plant-support, Wire. O. A. Müller. No. 948,671; Feb. 8; Sp. p. 1885; Gaz. vol. 151; p. 325.
Plant-support, Wire. O. A. Müller. No. 948,672; Feb. 8; Sp. p. 1886; Gaz. vol. 151; p. 325.
Plant-thinning apparatus. E. F. Webb. No. 957,131; May 3; Sp. p. 1344; Gaz. vol. 154; p. 215.
Plant-thinning machine. J. W. Briscoe. No. 977,162; Nov. 29; Sp. p. 6830; Gaz. vol. 160; p. 1159.
Plant-tying device. G. S. Remsburg. No. 965,599; July 26; Sp. p. 5633; Gaz. vol. 156; p. 959.
Planter. T. J. Fuller. No. 950,019; Feb. 22; Sp. p. 4789; Gaz. vol. 151; p. 842.
Planter. C. Reutzel and H. Frey. No. 951,026; Mar. 1; Sp. p. 1152; Gaz. vol. 152; p. 188.
Planter. W. G. Johnson. No. 951,818; Mar. 15; Sp. p. 2756; Gaz. vol. 152; p. 504.
Planter. F. R. Furbos and B. T. Lumpkin. No. 953,604; Mar. 29; Sp. p. 6507; Gaz. vol. 152; p. 1163.
Planter. F. M. Gordon. No. 959,852; May 31; Sp. p. 7400; Gaz. vol. 154; p. 1254.
Planter. A. R. Gilmore. No. 961,769; June 21; Sp. p. 3164; Gaz. vol. 155; p. 568.
Planter. S. E. Montgomery. No. 968,250; Aug. 23; Sp. p. 5157; Gaz. vol. 157; p. 888.
Planter. C. F. Jaynes. No. 969,701; Sept. 6; Sp. p. 1158; Gaz. vol. 158; p. 187.
Planter. A. J. H. Reid. No. 976,292; Nov. 22; Sp. p. 4887; Gaz. vol. 160; p. 835.
Planter and cultivator, Irrigating. J. D. Coplen. No. 952,607; Mar. 22; Sp. p. 4369; Gaz. vol. 152; p. 798.
Planter and disk covering attachment. J. B. Allbee. No. 979,817; Dec. 27; Sp. p. 5203; Gaz. vol. 161; p. 902.
Planter and fertilizer-distributer. J. B. and C. B. Ebling. No. 953,822; Apr. 5; Sp. p. 284; Gaz. vol. 153; p. 50.
Planter and fertilizer-distributer, Combined. C. Linder. No. 976,383; Nov. 22; Sp. p. 5101; Gaz. vol. 160; p. 866.
Planter and fertilizer-distributer, Combined. D. E. Lawrence. No. 977,886; Dec. 6; Sp. p. 1011; Gaz. vol. 161; p. 160.
Planter and fertilizer-distributer, Combined seed-. W. D. Lemons. No. 971,856; Oct. 4; Sp. p. 731; Gaz. vol. 159; p. 128.
Planter and hiller, Corn. C. H. Noell. No. 977,535; Dec. 6; Sp. p. 275; Gaz. vol. 161; p. 40.
Planter and spreader. T. J. King. No. 977,884; Dec. 6; Sp. p. 1007; Gaz. vol. 161; p. 159.
Planter attachment, Corn-. J. S. Smith. No. 971,320; Sept. 27; Sp. p. 4620; Gaz. vol. 158; p. 809.
Planter attachment, Seed-. E. Taylor. No. 973,824; Oct. 25; Sp. p. 5054; Gaz. vol. 159; p. 879.
Planter check-rower, Corn-. F. J. and M. A. Krivachek. No. 974,080; Oct. 25; Sp. p. 5581; Gaz. vol. 159; p. 967.
Planter, Combined corn and cotton. W. S. Graham. No. 966,326; Aug. 2; Sp. p. 1002; Gaz. vol. 157; p. 161.
Planter, Corn-. V. F. Pavey. No. 945,728; Jan. 4; Sp. p. 1566; Gaz. vol. 150; p. 241.
Planter, Corn-. J. C. Coleman. No. 947,799; Feb. 1; Sp. p. 39; Gaz. vol. 151; p. 9.

Alphabetical list of inventions—Continued.

Planter, Corn-. J. C. Coleman. No. 947,800; Feb. 1; Sp. p. 42; Gaz. vol. 151; p. 9.
Planter, Corn-. J. N. Stout. No. 948,260; Feb. 1; Sp. p. 978; Gaz. vol. 151; p. 161.
Planter, Corn-. E. Snyder. No. 955,707; Apr. 19; Sp. p. 4363; Gaz. vol. 153; p. 753.
Planter, Corn-. H. F. Lotz. No. 956,713; May 3; Sp. p. 462; Gaz. vol. 154; p. 74.
Planter, Corn-. A. S. Beymer. No. 960,487; June 7; Sp. p. 496; Gaz. vol. 155; p. 83.
Planter, Corn-. H. C. Hanson. No. 963,548; July 5; Sp. p. 1173; Gaz. vol. 156; p. 180.
Planter, Corn-. A. P. Gubrud. No. 966,908; Aug. 9; Sp. p. 2328; Gaz. vol. 157; p. 382.
Planter, Corn-. J. N. Stout. No. 967,851; Aug. 16; Sp. p. 4263; Gaz. vol. 157; p. 729.
Planter, Corn-. T. N. Seay. No. 970,268; Sept. 13; Sp. p. 2420; Gaz. vol. 158; p. 407.
Planter, Corn-. H. F. Carter. No. 971,116; Sept. 27; Sp. p. 4204; Gaz. vol. 158; p. 742.
Planter, Corn-. M. Mauger and C. Schraw. No. 971,293; Sept. 27; Sp. p. 4571; Gaz. vol. 158; p. 800.
Planter, Corn-. J. Gross. No. 973,499; Oct. 25; Sp. p. 4379; Gaz. vol. 159; p. 766.
Planter, Corn-. C. F. Bass. No. 974,851; Nov. 8; Sp. p. 1748; Gaz. vol. 160; p. 292.
Planter, Corn-. F. W. Booth. No. 975,673; Nov. 15; Sp. p. 3567; Gaz. vol. 160; p. 600.
Planter, Corn-. A. H. Leatherman. No. 977,021; Nov. 29; Sp. p. 6512; Gaz. vol. 160; p. 1111.
Planter, Corn-. W. H. Grabe and J. Brant. No. 978,735; Dec. 13; Sp. p. 2860; Gaz. vol. 161; p. 484.
Planter, Corn or cotton. C. Wilks. No. 958,204; May 17; Sp. p. 3818; Gaz. vol. 154; p. 645.
Planter, Cotton-. J. Clark. No. 947,884; Feb. 1; Sp. p. 231; Gaz. vol. 151; p. 37.
Planter, Cotton-. G. W. Copeland. No. 970,186; Sept. 13; Sp. p. 2225; Gaz. vol. 158; p. 378.
Planter coupling-frame. R. A. Barkley. No. 978,539; Dec. 13; Sp. p. 2419; Gaz. vol. 161; p. 416.
Planter gage, Corn-. L. P. Philippi. No. 947,216; Jan. 18; Sp. p. 4867; Gaz. vol. 150; p. 803.
Planter, Hand-. L. R. Power. No. 950,303; Feb. 22; Sp. p. 5351; Gaz. vol. 151; p. 939.
Planter, Hand-. M. M. Logan. No. 954,576; Apr. 12; Sp. p. 1874; Gaz. vol. 153; p. 335.
Planter, Hand-. J. L. Gwaltney. No. 967,371; Aug. 16; Sp. p. 3285; Gaz. vol. 157; p. 569.
Planter harrow attachment. J. Ploen. No. 968,976; Aug. 30; Sp. p. 6680; Gaz. vol. 157; p. 1163.
Planter-legs, Rotary valve for. P. B. Hamer. No. 968,765; Aug. 30; Sp. p. 6261; Gaz. vol. 157; p. 1093.
Planter-marker. L. J. Lindsay. No. 953,849; Apr. 5; Sp. p. 338; Gaz. vol. 153; p. 60.
Planter-marker. G. O. Rabeck. No. 969,656; Sept. 6; Sp. p. 1077; Gaz. vol. 158; p. 172.
Planter marker, Corn-. S. B. Artz. No. 976,771; Nov. 22; Sp. p. 5918; Gaz. vol. 160; p. 999.
Planter marking device, Seed-. L. N. Todd. No. 974,312; Nov. 1; Sp. p. 531; Gaz. vol. 160; p. 78.
Planter, Mint-. F. H. Snyder. No. 964,820; July 19; Sp. p. 3982; Gaz. vol. 156; p. 663.
Planter, Pindal or peanut. R. B. May. No. 972,205; Oct. 11; Sp. p. 1513; Gaz. vol. 159; p. 269.
Planter, Potato-. H. P. Baltzer. No. 951,412; Mar. 8; Sp. p. 1943; Gaz. vol. 152; p. 337.
Planter, Potato-. J. Hadie. No. 954,860; Apr. 12; Sp. p. 2555; Gaz. vol. 153; p. 435.
Planter, Potato-. T. L. Good. No. 955,395; Apr. 19; Sp. p. 3683; Gaz. vol. 153; p. 647.
Planter, Potato-. W. J. Yearsley. No. 957,293; May 10; Sp. p. 1729; Gaz. vol. 154; p. 302.
Planter, Potato-. C. Hinman. No. 958,922; May 24; Sp. p. 5475; Gaz. vol. 154; p. 918.
Planter, Potato-. A. McWhorter. No. 959,154; May 24; Sp. p. 5942; Gaz. vol. 154; p. 995.
Planter, Potato-. E. Richter. No. 972,919; Oct. 18; Sp. p. 3110; Gaz. vol. 159; p. 544.
Planter, Potato-. J. Hist. No. 977,742; Dec. 6; Sp. p. 709; Gaz. vol. 161; p. 111.
Planter, Seed-. C. F. Ward. No. 946,746; Jan. 18; Sp. p. 3868; Gaz. vol. 150; p. 646.
Planter, Seed-. W. A. Wilson. No. 950,086; Feb. 22; Sp. p. 4910; Gaz. vol. 151; p. 863.
Planter, Seed-. L. N. Todd. No. 953,870; Apr. 5; Sp. p. 374; Gaz. vol. 153; p. 67.
Planter, Seed-. G. W. Barrow. No. 963,112; July 5; Sp. p. 231; Gaz. vol. 156; p. 30.
Planter, Seed-. C. B. Carter. No. 969,338; Sept. 6; Sp. p. 392; Gaz. vol. 158; p. 64.
Planter seeding attachment. J. L. Baldwin. No. 949,254; Feb. 15; Sp. p. 3081; Gaz. vol. 151; p. 546.
Planter-shoe. N. Klaus. No. 946,845; Jan. 18; Sp. p. 4115; Gaz. vol. 150; p. 681.
Planter-shoe. S. A. Pogue. No. 967,430; Aug. 16; Sp. p. 3416; Gaz. vol. 157; p. 589.
Planter tension device, Check-row-. E. W. Ryder. No. 977,134; Nov. 29; Sp. p. 6759; Gaz. vol. 160; p. 1150.
Planter, Two-row potato-. N. Colgen and O. P. Boysen. No. 957,412; May 10; Sp. p. 1972; Gaz. vol. 154; p. 341.
Planter, Wireless check-row. S. H. Kline. No. 975,365; Nov. 8; Sp. p. 2885; Gaz. vol. 160; p. 466.
Planter, Wireless corn-. J. Stickley. No. 950,682; Mar. 1; Sp. p. 460; Gaz. vol. 152; p. 75.
Planters, Dropping attachment for corn-. C. Hunnicutt. No. 955,462; Apr. 19; Sp. p. 3812; Gaz. vol. 153; p. 669.
Planters, Fertilizer-discharging attachment for corn-. C. T. Rogers and F. E. Lee. No. 958,772; May 24; Sp. p. 5115; Gaz. vol. 154; p. 864.
Planters, Gage-lifting attachment for corn-. V. C. Bowser. No. 970,605; Sept. 20; Sp. p. 3113; Gaz. vol. 158; p. 542.
Planters, Picker for potato-. C. H. Gerling. No. 961,436; June 14; Sp. p. 2457; Gaz. vol. 155; p. 433.
Planting machine, Potato-. V. Paulitsch. No. 955,193; Apr. 19; Sp. p. 3225; Gaz. vol. 153; p. 578.
Planting machine, Potato-. T. J. Kelly. No. 956,583; May 3; Sp. p. 164; Gaz. vol. 154; p. 28.
Plaster. W. Guttmann. No. 977,730; Dec. 6; Sp. p. 686; Gaz. vol. 161; p. 107.
Plaster-board. E. Bye and K. Buer. No. 957,144; May 3; Sp. p. 1366; Gaz. vol. 154; p. 219.
Plaster composition. C. Ellis. No. 955,953; Apr. 26; Sp. p. 4910; Gaz. vol. 153; p. 867.
Plasterer's hawk. N. A. Hansen, J. F. Lehmann, and N. Jensen. No. 963,143; July 5; Sp. p. 303; Gaz. vol. 156; p. 42.
Plastic and elastic substances, Production of. L. Berend. No. 952,724; Mar. 22; Sp. p. 4626; Gaz. vol. 152; p. 838.
Plastic articles, Mold in which to form. L. P. Roberts. No. 952,279; Mar. 15; Sp. p. 3669; Gaz. vol. 152; p. 657.
Plastic compounds, Manufacture of. S. Morimura. No. 955,421; Apr. 19; Sp. p. 3726; Gaz. vol. 153; p. 655.
Plastic forms, Apparatus for making tapering. G. F. Pemberton. No. 952,684; Mar. 22; Sp. p. 4537; Gaz. vol. 152; p. 824.
Plastic masses, Manufacture of. L. Collardon. No. 953,319; Mar. 29; Sp. p. 5885; Gaz. vol. 152; p. 1063.
Plastic material, Handling. J. W. Buzzell and W. H. Larkin, Jr. No. 951,754; Mar. 8; Sp. p. 2620; Gaz. vol. 152; p. 453.
Plastic material, Machine for forming. G. E. Gowdy. No. 971,884; Oct. 4; Sp. p. 790; Gaz. vol. 159; p. 138.
Plastic material, Machine for molding. E. T. Parsons and W. J. O'Neil. No. 953,177; Mar. 29; Sp. p. 5588; Gaz. vol. 152; p. 1018.
Plastic material, Making. W. R. Seigle. No. 969,202; Sept. 6; Sp. p. 131; Gaz. vol. 158; p. 21.
Plastic-material mold. G. A. Harter. No. 949,571; Feb. 15; Sp. p. 3756; Gaz. vol. 151; p. 653.
Plastic material, Process and apparatus for forming articles of. C. J. Kirk. No. 952,745; Mar. 22; Sp. p. 4670; Gaz. vol. 152; p. 845.
Plastic material, Producing objects from. Z. Olsson. No. 954,991; Apr. 12; Sp. p. 2826; Gaz. vol. 153; p. 479.
Plastic mold. W. S. Proper. No. 968,798; Aug. 30; Sp. p. 6333; Gaz. vol. 157; p. 1104.
Plastic sheet composition. A. Thoma. No. 957,394; May 10; Sp. p. 1931; Gaz. vol. 154; p. 336.
Plastic substances, Device for regulating delivery of. J. J. and T. E. Fearon. No. 960,081; May 31; Sp. p. 7941; Gaz. vol. 154; p. 1333.
Plate-bending apparatus. A. M. Saunders. No. 965,018; July 19; Sp. p. 4376; Gaz. vol. 156; p. 730.
Plate-catcher. A. F. Warden. No. 947,361; Jan. 25; Sp. p. 5243; Gaz. vol. 150; p. 883.
Plate-holder. L. J. Vough. No. 950,522; Mar. 1; Sp. p. 134; Gaz. vol. 152; p. 22.
Plate-lifter. G. Laube. No. 951,783; Mar. 8; Sp. p. 2683; Gaz. vol. 152; p. 463.
Plate-lifter. A. Panasci. No. 955,428; Apr. 19; Sp. p. 3742; Gaz. vol. 153; p. 657.
Plate-lifter. G. Celli. No. 962,196; June 21; Sp. p. 4113; Gaz. vol. 155; p. 713.
Plate-lifter. W. F. Brown. No. 972,055; Oct. 4; Sp. p. 1187; Gaz. vol. 159; p. 200.
Plate-making machine. M. A. Droitcour. No. 960,006; May 31; Sp. p. 7764; Gaz. vol. 154; p. 1308.
Plate or dish, Child's. J. C. Matthews. No. 949,025; Feb. 15; Sp. p. 2640; Gaz. vol. 151; p. 470.
Plate shaving, trimming, and tail-cutting machine, Combined. S. G. Goss. No. 975,521; Nov. 15; Sp. p. 3219; Gaz. vol. 160; p. 548.
Plate-trimming shears, Guiding apparatus for. E. R. Bierman and G. H. Keast. No. 962,191; June 21; Sp. p. 4102; Gaz. vol. 155; p. 712.
Plates, Device for automatically adjusting. W. B. Wait. No. 978,081; Dec. 6; Sp. p. 1414; Gaz. vol. 161; p. 228.
Plates or other tableware, Machine for washing. H. W. Rodda. No. 972,251; Oct. 11; Sp. p. 1620; Gaz. vol. 159; p. 284.
Plating-tanks, Apparatus for circulating the liquid in. G. L. Wallace. No. 950,973; Mar. 1; Sp. p. 1069; Gaz. vol. 152; p. 171.
Plating tubes, &c. W. H. Winslow. No. 950,777; Mar. 1; Sp. p. 684; Gaz. vol. 152; p. 109.
Platform, Traveling. W. M. Sherwood. No. 961,809; June 21; Sp. p. 3253; Gaz. vol. 155; p. 580.
Platter, Lunch-. L. B. Kauffmann. No. 956,858; May 3; Sp. p. 783; Gaz. vol. 154; p. 124.
Player, Automatic. J. A. Weser. No. 956,558; May 3; Sp. p. 106; Gaz. vol. 154; p. 20.

Player, Automatic. J. A. Weser. No. 965,264; July 26; Sp. p. 4878; Gaz. vol. 156; p. 842.
Player, Automatic. W. R. Crippen. No. 977,072; Nov. 29; Sp. p. 6614; Gaz. vol. 160; p. 1128.
Pliers. C. R. Cousino. No. 945,702; Jan. 4; Sp. p. 1482; Gaz. vol. 150; p. 232.
Pliers. G. L. Reichhelm. No. 951,454; Mar. 8; Sp. p. 2024; Gaz. vol. 152; p. 351.
Pliers. A. A. Kraeuter. No. 953,170; Mar. 29; Sp. p. 5577; Gaz. vol. 152; p. 1016.
Pliers. R. I. Metzger. No. 954,818; Apr. 12; Sp. p. 2459; Gaz. vol. 153; p. 419.
Pliers. J. H. Sullivan. No. 955,370; Apr. 19; Sp. p. 3618; Gaz. vol. 153; p. 638.
Pliers. C. H. Snell. No. 960,724; June 7; Sp. p. 984; Gaz. vol. 155; p. 164.
Pliers. A. P. Schultz. No. 973,076; Oct. 18; Sp. p. 3446; Gaz. vol. 159; p. 597.
Pliers. H. R. Cirves. No. 973,760; Oct. 25; Sp. p. 4923; Gaz. vol. 159; p. 856.
Pliers. J. M. Chappel. No. 975,385; Nov. 8; Sp. p. 2938; Gaz. vol. 160; p. 474.
Pliers and similar tool. W. A. Bernard. No. 945,012; Jan. 4; Sp. p. 3; Gaz. vol. 150; p. 3.
Pliers and wire-cutter. P. Broadbooks. No. 979,925; Dec. 27; Sp. p. 5426; Gaz. vol. 161; p. 938.
Pliers, Blacksmith's. D. N. Tanner. No. 961,989; June 21; Sp. p. 3638; Gaz. vol. 155; p. 640.
Pliers, Insulation-clipping. G. A. Seessle. No. 946,074; Jan. 11; Sp. p. 2360; Gaz. vol. 150; p. 392.
Pliers, Insulation-cutting. H. A. Adams. No. 964,600; July 19; Sp. p. 3439; Gaz. vol. 156; p. 588.
Pliers, nippers, and similar tool. W. A. Bernard. No. 962,414; June 28; Sp. p. 4583; Gaz. vol. 155; p. 810.
Pliers or pipe-tongs. G. L. Holt. No. 957,560; May 10; Sp. p. 2267; Gaz. vol. 154; p. 392.
Plotter. G. H. Grove. No. 970,918; Sept. 20; Sp. p. 3803; Gaz. vol. 158; p. 649.
Plow. J. A. Hanger. No. 945,274; Jan. 4; Sp. p. 558; Gaz. vol. 150; p. 92.
Plow. J. Colomé. No. 945,696; Jan. 4; Sp. p. 1467; Gaz. vol. 150; p. 230.
Plow. G. C. Avery. (Reissue.) No. 13,066; Jan. 4; Sp. p. 1584; Gaz. vol. 150; p. 243.
Plow. W. T. Grimmer. No. 945,937; Jan. 11; Sp. p. 2077; Gaz. vol. 150; p. 345.
Plow. A. G. Perry. No. 946,461; Jan. 11; Sp. p. 3279; Gaz. vol. 150; p. 527.
Plow. E. Rosenfeld. No. 948,431; Feb. 8; Sp. p. 1372; Gaz. vol. 151; p. 244.
Plow. J. H. Nicholes. No. 949,492; Feb. 15; Sp. p. 3590; Gaz. vol. 151; p. 626.
Plow. J. G. Redmond. No. 949,686; Feb. 15; Sp. p. 3955; Gaz. vol. 151; p. 689.
Plow. J. R. Rossetter. No. 949,688; Feb. 15; Sp. p. 3958; Gaz. vol. 151; p. 690.
Plow. T. Parks and J. Coughlin. No. 950,674; Mar. 1; Sp. p. 449; Gaz. vol. 152; p. 73.
Plow. H. Tatum. No. 951,349; Mar. 8; Sp. p. 1801; Gaz. vol. 152; p. 316.
Plow. N. Sanders. No. 951,702; Mar. 8; Sp. p. 2496; Gaz. vol. 152; p. 434.
Plow. J. E. Becker. No. 951,792; Mar. 15; Sp. p. 2715; Gaz. vol. 152; p. 496.
Plow. F. Foltin. No. 953,325; Mar. 29; Sp. p. 5899; Gaz. vol. 152; p. 1065.
Plow. J. W. Stallings. No. 953,867; Apr. 5; Sp. p. 369; Gaz. vol. 153; p. 66.
Plow. E. E. Bradfield. No. 955,047; Apr. 12; Sp. p. 2939; Gaz. vol. 153; p. 498.
Plow. J. W. Cain. No. 955,759; Apr. 19; Sp. p. 4468; Gaz. vol. 153; p. 771.
Plow. B. M. Edelen, Jr. No. 957,045; May 3; Sp. p. 1176; Gaz. vol. 154; p. 186.
Plow. J. E. Thompson. No. 957,272; May 10; Sp. p. 1686; Gaz. vol. 154; p. 295.
Plow. J. Voegele. No. 960,743; June 7; Sp. p. 1018; Gaz. vol. 155; p. 172.
Plow. R. R. Price. No. 961,895; June 21; Sp. p. 3442; Gaz. vol. 155; p. 609.
Plow. J. Buchanan. No. 962,195; June 21; Sp. p. 4111; Gaz. vol. 155; p. 713.
Plow. J. P. Jones. No. 963,579; July 5; Sp. p. 1244; Gaz. vol. 156; p. 190.
Plow. G. A. Knox. No. 963,901; July 12; Sp. p. 1950; Gaz. vol. 156; p. 320.
Plow. F. E. Davis. No. 964,762; July 19; Sp. p. 3868; Gaz. vol. 156; p. 643.
Plow, C. W. Dickinson. No. 964,766; July 19; Sp. p. 3883; Gaz. vol. 156; p. 645.
Plow. J. A. Pankey. No. 965,121; July 19; Sp. p. 4581; Gaz. vol. 156; p. 764.
Plow. W. G. Danielsen. No. 966,662; Aug. 9; Sp. p. 1767; Gaz. vol. 157; p. 302.
Plow. L. E. Waterman. No. 967,091; Aug. 9; Sp. p. 2708; Gaz. vol. 157; p. 445.
Plow. J. T. Boyd. No. 969,243; Sept. 6; Sp. p. 203; Gaz. vol. 158; p. 33.
Plow. G. A. Knox. No. 969,377; Sept. 6; Sp. p. 491; Gaz. vol. 158; p. 78.
Plow. O. H. Peeples. No. 970,105; Sept. 13; Sp. p. 2068; Gaz. vol. 158; p. 351.
Plow. C. R. Harryman. No. 970,818; Sept. 20; Sp. p. 3616; Gaz. vol. 158; p. 617.
Plow. R. M. Kemp. No. 971,448; Sept. 27; Sp. p. 4859; Gaz. vol. 158; p. 851.
Plow. W. A. Blizzard. No. 973,745; Oct. 25; Sp. p. 4892; Gaz. vol. 159; p. 851.
Plow. R. M. Kelly. No. 974,675; Nov. 1; Sp. p. 1352; Gaz. vol. 160; p. 210.
Plow. R. M. Kelly. No. 974,676; Nov. 1; Sp. p. 1354; Gaz. vol. 160; p. 210.
Plow. W. F. Lindsey. No. 975,544; Nov. 15; Sp. p. 3280; Gaz. vol. 160; p. 556.
Plow. S. J. Minyard. No. 975,562; Nov. 15; Sp. p. 3314; Gaz. vol. 160; p. 563.
Plow. C. L. Hall. No. 975,614; Nov. 15; Sp. p. 3417; Gaz. vol. 160; p. 580.
Plow. I. L. Fake. No. 976,059; Nov. 15; Sp. p. 4306; Gaz. vol. 160; p. 731.
Plow. P. Krug. No. 976,188; Nov. 22; Sp. p. 4631; Gaz. vol. 160; p. 797.
Plow. R. Cunningham and M. Friar. No. 978,564; Dec. 13; Sp. p. 2496; Gaz. vol. 161; p. 426.
Plow. F. M. Beydler. No. 978,815; Dec. 13; Sp. p. 2994; Gaz. vol. 161; p. 507.
Plow and cultivator, Disk. J. Lavery. No. 960,966; June 7; Sp. p. 1450; Gaz. vol. 155; p. 244.
Plow and harrow, Combination. J. T. Boyd. No. 971,592; Oct. 4; Sp. p. 177; Gaz. vol. 159; p. 32.
Plow and seed-planter, Garden-. J. F. Mixon and O. H. Ford. No. 976,675; Nov. 22; Sp. p. 5709; Gaz. vol. 160; p. 966.
Plow attachment. J. W. Farrington. No. 945,774; Jan. 11; Sp. p. 1704; Gaz. vol. 150; p. 286.
Plow attachment. S. B. Evans. No. 948,210; Feb. 1; Sp. p. 880; Gaz. vol. 151; p. 144.
Plow attachment. C. W. Eschert. No. 948,478; Feb. 8; Sp. p. 1468; Gaz. vol. 151; p. 260.
Plow attachment. L. H. McCall. No. 948,614; Feb. 8; Sp. p. 1763; Gaz. vol. 151; p. 305.
Plow attachment. F. G. and G. C. Malcom. No. 951,737; Mar. 8; Sp. p. 2578; Gaz. vol. 152; p. 446.
Plow attachment. L. H. Ruch. No. 955,210; Apr. 19; Sp. p. 3271; Gaz. vol. 153; p. 585.
Plow attachment. L. Dettrick. No. 962,893; June 28; Sp. p. 5588; Gaz. vol. 155; p. 977.
Plow attachment. J. T. Ezzell. No. 964,411; July 12; Sp. p. 2976; Gaz. vol. 156; p. 491.
Plow attachment. E. Davidson. No. 969,091; Aug. 30; Sp. p. 6913; Gaz. vol. 157; p. 1203.
Plow attachment. E. M. Dowdy. No. 972,169; Oct. 11; Sp. p. 1434; Gaz. vol. 159; p. 256.
Plow attachment. O. Hatlelid. No. 974,377; Nov. 1; Sp. p. 679; Gaz. vol. 160; p. 102.
Plow attachment. B. A. Morris. No. 976,677; Nov. 22; Sp. p. 5713; Gaz. vol. 160; p. 967.
Plow attachment. W. Aden. No. 978,259; Dec. 13; Sp. p. 1834; Gaz. vol. 161; p. 320.
Plow attachment. A. Bankhead. No. 978,427; Dec. 13; Sp. p. 2185; Gaz. vol. 161; p. 379.
Plow attachment. H. E. Davis. No. 979,829; Dec. 27; Sp. p. 5236; Gaz. vol. 161; p. 906.
Plow attachment, Gang-. M. S. Stimpson. No. 973,145; Oct. 18; Sp. p. 3606; Gaz. vol. 159; p. 621.
Plow attachment, Sulky-. E. Boyer. No. 955,496; Apr. 19; Sp. p. 3885; Gaz. vol. 153; p. 682.
Plow, Automobile. A. R. Lynch. No. 973,678; Oct. 25; Sp. p. 4763; Gaz. vol. 159; p. 828.
Plow-beam-adjusting mechanism. W. L. Beall. No. 979,366; Dec. 20; Sp. p. 4207; Gaz. vol. 161; p. 725.
Plow, Breaking-. J. H. Rogge. No. 959,390; May 24; Sp. p. 6412; Gaz. vol. 154; p. 1072.
Plow, Breaking-. J. W. Majek. No. 962,646; June 28; Sp. p. 5088; Gaz. vol. 155; p. 890.
Plow-cleaner. O. Huffmon. No. 959,538; May 31; Sp. p. 6740; Gaz. vol. 154; p. 1147.
Plow, Cotton-thinning. J. M. Crook. No. 963,689; July 5; Sp. p. 1441; Gaz. vol. 156; p. 226.
Plow, Cultivator-. G. W. Pobanz. No. 960,194; May 31; Sp. p. 8154; Gaz. vol. 154; p. 1371.
Plow, cultivator, and the like. W. L. Paul. No. 968,398; Aug. 23; Sp. p. 5456; Gaz. vol. 157; p. 940.
Plow, Disk. E. Fowler. No. 952,895; Mar. 22; Sp. p. 4975; Gaz. vol. 152; p. 895.
Plow, Disk. J. H. Martin. No. 955,179; Apr. 19; Sp. p. 3194; Gaz. vol. 153; p. 573.
Plow, Disk. L. and C. Krebs. No. 959,356; May 24; Sp. p. 6349; Gaz. vol. 154; p. 1062.
Plow, Disk. C. J. Daly. No. 963,525; July 5; Sp. p. 1133; Gaz. vol. 156; p. 172.
Plow disk jointer. J. F. Emmett. No. 959,325; May 24; Sp. p. 6288; Gaz. vol. 154; p. 1052.
Plow, Ditching-. D. Dahlstrom. No. 956,299; Apr. 26; Sp. p. 5677; Gaz. vol. 153; p. 988.
Plow, Ditching-. K. P. Nickell. No. 973,689; Oct. 25; Sp. p. 4788; Gaz. vol. 159; p. 831.
Plow, Double-shovel. L. C. Gregory. No. 954,279; Apr. 5; Sp. p. 1234; Gaz. vol. 153; p. 206.
Plow draft appliance. W. L. White. No. 971,711; Oct. 4; Sp. p. 416; Gaz. vol. 159; p. 72.

Alphabetical list of inventions—Continued.

Plow draft device. J. Cunningham. No. 977,436; Dec. 6; Sp. p. 17; Gaz. vol. 161; p. 6.
Plow-fender. J. P. Ertel. No. 961,591; June 14; Sp. p. 2801; Gaz. vol. 155; p. 484.
Plow-fender. J. C. Skidmore. No. 962,264; June 21; Sp. p. 4251; Gaz. vol. 155; p. 736.
Plow-fender. R. Jones. No. 963,295; July 5; Sp. p. 672; Gaz. vol. 156; p. 95.
Plow-fender. C. T. Sewell. No. 977,971; Dec. 6; Sp. p. 1196; Gaz. vol. 161; p. 191.
Plow-fender adjuster. C. W. Williams. No. 974,325; Nov. 1; Sp. p. 571; Gaz. vol. 160; p. 83.
Plow-foot. J. R. Crenshaw. No. 945,020; Jan. 4; Sp. p. 20; Gaz. vol. 150; p. 6.
Plow for steam cultivation, Disk. R. H. Fowler, T. Benstead, and A. Pepper. No. 954,950; Apr. 12; Sp. p. 2746; Gaz. vol. 153; p. 465.
Plow-frame. W. S. Hiett. No. 953,997; Apr. 5; Sp. p. 625; Gaz. vol. 153; p. 111.
Plow-frame. P. T. McDonnold. No. 959,871; May 31; Sp. p. 7451; Gaz. vol. 154; p. 1260.
Plow-frame. W. H. Arnold. No. 968,107; Aug. 23; Sp. p. 4831; Gaz. vol. 157; p. 839.
Plow, Gang-. D. J. Elliott. No. 957,149; May 3; Sp. p. 1376; Gaz. vol. 154; p. 220.
Plow, Gang-. C. P. Miller. No. 959,953; May 31; Sp. p. 7644; Gaz. vol. 154; p. 1289.
Plow, Gang-. M. S. Opsata. No. 964,179; July 12; Sp. p. 2515; Gaz. vol. 156; p. 413.
Plow, Gang-. W. L. Paul. No. 974,592; Nov. 1; Sp. p. 1180; Gaz. vol. 160; p. 180.
Plow, Gang-. W. Berndt. No. 976,338; Nov. 22; Sp. p. 5001; Gaz. vol. 160; p. 849.
Plow, Gang-. H. C. Clay. No. 976,721; Nov. 22; Sp. p. 5794; Gaz. vol. 160; p. 981.
Plow, Grubber-. V. O. Deyl. No. 953,686; Apr. 5; Sp. p. 16; Gaz. vol. 153; p. 5.
Plow, Grubbing-. C. D. Jauer. No. 953,909; Apr. 5; Sp. p. 445; Gaz. vol. 153; p. 81.
Plow, Hand-. A. R. Corrington. No. 948,847; Feb. 8; Sp. p. 2264; Gaz. vol. 151; p. 384.
Plow, Hand-. A. R. Corrington. No. 959,425; May 24; Sp. p. 6467; Gaz. vol. 154; p. 1083.
Plow harrow attachment. A. L. Luce. No. 949,039; Feb. 15; Sp. p. 2664; Gaz. vol. 151; p. 474.
Plow harrow attachment. W. H. Walker. No. 957,722; May 10; Sp. p. 2587; Gaz. vol. 154; p. 448.
Plow harrow attachment. E. M. Kramer. No. 963,587; July 5; Sp. p. 1256; Gaz. vol. 156; p. 193.
Plow harrow attachment. H. Ogle. No. 968,072; Aug. 23; Sp. p. 4755; Gaz. vol. 157; p. 828.
Plow harrow attachment, Sulky-. I. S. De Witt. No. 962,701; June 28; Sp. p. 5213; Gaz. vol. 155; p. 910.
Plow harrow attachment, Wheeled-. J. R. Naylor. No. 954,758; Apr. 12; Sp. p. 2308; Gaz. vol. 153; p. 399.
Plow-jointer. L. E. Kieffer. No. 951,005; Mar. 1; Sp. p. 1119; Gaz. vol. 152; p. 181.
Plow jointer attachment. P. S. Sidell. No. 946,279; Jan. 11; Sp. p. 2789; Gaz. vol. 150; p. 464.
Plow-line holder. T. J. Spillers. No. 951,854; Mar. 15; Sp. p. 2839; Gaz. vol. 152; p. 517.
Plow, Lister-. C. L. Harbolt. No. 965,295; July 26; Sp. p. 4944; Gaz. vol. 156; p. 853.
Plow marking attachment. J. T. Tucker. No. 960,444; June 7; Sp. p. 409; Gaz. vol. 155; p. 69.
Plow, Middle-breaker and turning-. J. B. C. Armstrong. No. 945,010; Jan. 4; Sp. p. 1; Gaz. vol. 150; p. 3.
Plow-moldboard, Rotary. A. Morison. No. 948,457; Feb. 8; Sp. p. 1417; Gaz. vol. 151; p. 253.
Plow, Mole-. A. G. Hermanson. No. 962,957; June 28; Sp. p. 5692; Gaz. vol. 155; p. 998.
Plow, Motor-. J. J. Middlebrook. No. 957,979; May 17; Sp. p. 3213; Gaz. vol. 154; p. 566.
Plow-motor-guiding device. E. M., E. F., and D. O. Wheelock. No. 963,490; July 5; Sp. p. 1052; Gaz. vol. 156; p. 160.
Plow, Motor-propelled. A. K. Baltezor. No. 974,338; Nov. 1; Sp. p. 598; Gaz. vol. 160; p. 89.
Plow-point. M. F. McElveen. No. 975,555; Nov. 15; Sp. p. 3302; Gaz. vol. 160; p. 560.
Plow-point, Adjustable. N. L. Olson. No. 974,701; Nov. 1; Sp. p. 1415; Gaz. vol. 160; p. 219.
Plow, Quack-grass. C. E. Glasspoole. No. 945,734; Jan. 4; Sp. p. 1580; Gaz. vol. 150; p. 243.
Plow, Reversible. J. R. Rossetter. No. 962,389; June 21; Sp. p. 4502; Gaz. vol. 155; p. 777.
Plow, Reversible. J. W. Buchanan. No. 966,791; Aug. 9; Sp. p. 2080; Gaz. vol. 157; p. 346.
Plow, Reversible-disk. C. H. Melvin. No. 979,019; Dec. 20; Sp. p. 3457; Gaz. vol. 161; p. 607.
Plow, Reversible multifurrow disk. D. H. Smith. No. 971,157; Sept. 27; Sp. p. 4290; Gaz. vol. 158; p. 755.
Plow-reversing mechanism. J. P. Field. No. 954,567; Apr. 12; Sp. p. 1857; Gaz. vol. 153; p. 332.
Plow, Rotary. C. H. Van Nostrand. No. 955,297; Apr. 19; Sp. p. 3453; Gaz. vol. 153; p. 613.
Plow, Rotary. D. C. Ruth. No. 974,711; Nov. 1; Sp. p. 1440; Gaz. vol. 160; p. 222.
Plow, Rotary disk. C. H. McKee. No. 980,113; Dec. 27; Sp. p. 5846; Gaz. vol. 161; p. 1000.
Plow-scraper, Disk. J. J. Shackelford. No. 975,578; Nov. 15; Sp. p. 3346; Gaz. vol. 160; p. 568.
Plow, Self-propelled. O. Wait. No. 975,305; Nov. 8; Sp. p. 2775; Gaz. vol. 160; p. 448.
Plow-shaft. C. A. Ryan. No. 976,303; Nov. 22; Sp. p. 4924; Gaz. vol. 160; p. 839.
Plow shock-absorber. E. Barr. No. 977,364; Nov. 29; Sp. p. 7246; Gaz. vol. 160; p. 1229.
Plow-shovel. C. E. Allen. No. 966,411; Aug. 9; Sp. p. 1181; Gaz. vol. 157; p. 215.
Plow, Sidehill-. J. N. Watrous and C. Minor. No. 949,922; Feb. 22; Sp. p. 4518; Gaz. vol. 151; p. 806.
Plow, Sidehill-. W. L. Gash. No. 964,230; July 12; Sp. p. 2619; Gaz. vol. 156; p. 431.
Plow-slide. G. L. Schroeder. No. 956,187; Apr. 26; Sp. p. 5433; Gaz. vol. 153; p. 951.
Plow slide attachment. J. L. Moore. No. 964,115; July 12; Sp. p. 2399; Gaz. vol. 156; p. 393.
Plow soil-pulverizing attachment. J. W. Roberts. No. 972,025; Oct. 4; Sp. p. 1132; Gaz. vol. 159; p. 190.
Plow subsoiler attachment. W. A. Stephens. No. 960,600; June 7; Sp. p. 735; Gaz. vol. 155; p. 121.
Plow, Sulky-. H. Wiard. No. 946,928; Jan. 18; Sp. p. 4318; Gaz. vol. 150; p. 709.
Plow, Sulky-. W. L. Paul. (Reissue.) No. 13,112; May 10; Sp. p. 2872; Gaz. vol. 154; p. 492.
Plow, Sulky-. H. P. Curtright. No. 958,696; May 17; Sp. p. 4939; Gaz. vol. 154; p. 811.
Plow, Sulky-. C. R. Davis. No. 967,110; Aug. 9; Sp. p. 2754; Gaz. vol. 157; p. 452.
Plow, Traction-engine gang-. J. W. Jackson. No. 950,535; Mar. 1; Sp. p. 157; Gaz. vol. 152; p. 26.
Plow, Traction gang-. B. R. Hoisington. No. 951,121; Mar. 8; Sp. p. 1328; Gaz. vol. 152; p. 243.
Plow, Traction gang-. C. J. Johnson. No. 954,969; Apr. 12; Sp. p. 2791; Gaz. vol. 153; p. 472.
Plow vine-cutting attachment. W. R. Melson. No. 970,379; Sept. 13; Sp. p. 2631; Gaz. vol. 158; p. 443.
Plow, Wheeled. W. L. Paul. No. 948,247; Feb. 1; Sp. p. 950; Gaz. vol. 151; p. 156.
Plow, Wheeled. L. E. Waterman. No. 967,093; Aug. 9; Sp. p. 2710; Gaz. vol. 157; p. 445.
Plows, Adjustable beam and frame for sulky and gang. H. S. Busby. No. 958,091; May 17; Sp. p. 3593; Gaz. vol. 154; p. 606.
Plows, Attachment for riding breaking-. J. B. Harrell. No. 962,342; June 21; Sp. p. 4420; Gaz. vol. 155; p. 762.
Plows, Combined packer and harrow attachment for sulky-. R. R. Markle. No. 950,099; Mar. 1; Sp. p. 505; Gaz. vol. 152; p. 81.
Plows, Draft appliance for. G. A. Anderson. No. 976,024; Nov. 15; Sp. p. 4242; Gaz. vol. 160; p. 719.
Plows, Draft attachment for. H. W. Flagg. No. 951,638; Mar. 8; Sp. p. 2386; Gaz. vol. 152; p. 413.
Plows, Drag attachment for. J. E. Burton. No. 969,130; Aug. 30; Sp. p. 7001; Gaz. vol. 157; p. 1217.
Plows, Gage-lever mechanism for. J. J. Tait. No. 960,435; June 7; Sp. p. 394; Gaz. vol. 155; p. 66.
Plows, Potato-digging attachment for. F. Day. No. 958,603; May 17; Sp. p. 4764; Gaz. vol. 154; p. 782.
Plows, Riding attachment for. W. L. Kissel. No. 952,815; Mar. 22; Sp. p. 4831; Gaz. vol. 152; p. 869.
Plows, Row-marker for. G. W. Brown. No. 946,574; Jan. 18; Sp. p. 3502; Gaz. vol. 150; p. 589.
Plows, Side-draft equalizer for sulky-. A. Lukl and F. Wolf, Jr. No. 976,385; Nov. 22; Sp. p. 5105; Gaz. vol. 160; p. 867.
Plows, Subsoil-cultivator attachment for. R. M. Kemp. No. 950,852; Mar. 1; Sp. p. 831; Gaz. vol. 152; p. 133.
Plowing apparatus. R. J. and E. C. Bonin. No. 949,879; Feb. 22; Sp. p. 4422; Gaz. vol. 151; p. 791.
Plowshare. A. G. Perry. No. 947,083; Jan. 18; Sp. p. 4605; Gaz. vol. 150; p. 760.
Plowshare. G. J. Buckey. No. 949,617; Feb. 15; Sp. p. 3836; Gaz. vol. 151; p. 668.
Plowshare for grubbing-plows, &c. C. D. Jauer. No. 956,768; May 3; Sp. p. 575; Gaz. vol. 154; p. 92.
Plowshares, Manufacturing. H. C. Millar and J. Meyers. No. 963,614; July 5; Sp. p. 1312; Gaz. vol. 156; p. 202.
Plug, Attaching-. J. C. Dallam. No. 947,987; Feb. 1; Sp. p. 434; Gaz. vol. 151; p. 70
Plug, Attaching-. H. R. Sargent. No. 957,261; May 10; Sp. p. 1653; Gaz. vol. 154; p. 291.
Plug, Attachment-. L. A. G. Widener. No. 946,412; Jan. 11; Sp. p. 3168; Gaz. vol. 150; p. 510.
Plug, Attachment-. F. E. Seeley. No. 952,952; Mar. 22; Sp. p. 5096; Gaz. vol. 152; p. 915.
Plug, Attachment-. J. C. Dallam. No. 964,619; July 19; Sp. p. 3475; Gaz. vol. 156; p. 594.
Plug, Attachment-. H. T. Paiste. No. 965,733; July 26; Sp. p. 5908; Gaz. vol. 156; p. 1004.
Plug, Clean-out. C. F. Madden. No. 952,078; Mar. 15; Sp. p. 3274; Gaz. vol. 152; p. 589.
Plug, Detachable. C. D. Platt. No. 953,709; Apr. 5; Sp. p. 53; Gaz. vol. 153; p. 12.
Plug device. T. G. Tedesco. No. 961,555; June 14; Sp. p. 2720; Gaz. vol. 155; p. 472.
Plug, Fixed-polarity attachment-. C. D. Platt. No. 977,836; Dec. 6; Sp. p. 904; Gaz. vol. 161; p. 143.

Plug-lifter. H. E. Bennett. No. 975,014; Nov. 8; Sp. p. 2133; Gaz. vol. 160; p. 348.
Plug receptacle, Terminal-. J. E. Ward. No. 972,956; Oct. 18; Sp. p. 3199; Gaz. vol. 159; p. 556.
Plug, Safety-. E. H. Bastion. No. 950,271; Feb. 22; Sp. p. 5295; Gaz. vol. 151; p. 928.
Plug, Separable attachment-. C. D. Platt. No. 953,708; Apr. 5; Sp. p. 50; Gaz. vol. 153; p. 12.
Plug, Separable attachment-. H. Hubbell. No. 964,863; July 19; Sp. p. 4073; Gaz. vol. 156; p. 679.
Plug, Socket and attaching-. J. E. Luther. No. 955,465; Apr. 19; Sp. p. 3817; Gaz. vol. 153; p. 670.
Plug, socket, and switch, Combined electric connecting. W. W. Buckton. No. 948,041; Feb. 1; Sp. p. 549; Gaz. vol. 151; p. 88.
Plug-switch. J. H. Kliegl. No. 963,733; July 5; Sp. p. 1564; Gaz. vol. 156; p. 241.
Plug-switch. H. E. Leppert. No. 969,787; Sept. 13; Sp. p. 1382; Gaz. vol. 158; p. 242.
Plug-switch. F. B. Adam. No. 973,096; Oct. 18; Sp. p. 3496; Gaz. vol. 159; p. 603.
Plumb-lines to the roofs, sides, or floors of mine-workings, tunnels, or for similar purposes, Means for attaching surveyors'. T. Peacock. No. 946,579; Jan. 18; Sp. p. 3508; Gaz. vol. 150; p. 591.
Plumb, rule, and straight-edge, Combined. F. Seitz. No. 963,816; July 12; Sp. p. 1761; Gaz. vol. 156; p. 292.
Plumber's fitting. W. H. Perkins. No. 965,008; July 19; Sp. p. 4363; Gaz. vol. 156; p. 727.
Plumber's pot. C. A. Johnson, Jr. No. 973,867; Oct. 25; Sp. p. 5146; Gaz. vol. 159; p. 894.
Plumbing apparatus for concrete-wall molds. A. Haag. No. 972,618; Oct. 11; Sp. p. 2426; Gaz. vol. 159; p. 413.
Plumbing attachment. H. Phillips. No. 957,709; May 10; Sp. p. 2561; Gaz. vol. 154; p. 443.
Plumbing-fixture. J. L. Donat. No. 959,207; May 24; Sp. p. 6053; Gaz. vol. 154; p. 1012.
Plumbing systems, Test connection for. J. Ruhl. No. 948,525; Feb. 8; Sp. p. 1571; Gaz. vol. 151; p. 277.
Plume. L. Montilli. No. 969,795; Sept. 13; Sp. p. 1395; Gaz. vol. 158; p. 245.
Plumes and similar articles, Holder for. E. W. Moch. No. 979,876; Dec. 27; Sp. p. 5330; Gaz. vol. 161; p. 922.
Plunger-cables, Means for tightening. F. C. Furlow. No. 954,027; Apr. 5; Sp. p. 690; Gaz. vol. 153; p. 121.
Plunger case, Multiple-. A. M. Hance. No. 960,903; June 7; Sp. p. 1334; Gaz. vol. 155; p. 224.
Plunger case, Multiple-. A. M. Hance. No. 965,138; July 19; Sp. p. 4616; Gaz. vol. 156; p. 769.
Plunger-elevator. F. C. Furlow. No. 955,959; Apr. 26; Sp. p. 4918; Gaz. vol. 153; p. 869.
Plunger-elevator system. T. Larsson. No. 975,540; Nov. 15; Sp. p. 3270; Gaz. vol. 160; p. 555.
Plunger-equalizer. A. M. Coyle. No. 955,852; Apr. 26; Sp. p. 4680; Gaz. vol. 153; p. 832.
Plunger-lubricating ring. H. Ruth. No. 947,650; Jan. 25; Sp. p. 5902; Gaz. vol. 150; p. 980.
Pneumatic action. B. T. Treahy. No. 968,291; Aug. 23; Sp. p. 5245; Gaz. vol. 157; p. 903.
Pneumatic actuating unit. L. M. French and W. M. O'Brien. No. 968,546; Aug. 30; Sp. p. 5775; Gaz. vol. 157; p. 1017.
Pneumatic apparatus. E. L. J. Gissot. No. 947,176; Jan. 18; Sp. p. 4780; Gaz. vol. 150; p. 788.
Pneumatic-apparatus connection. I. H. Spencer. No. 968,810; Aug. 30; Sp. p. 6353; Gaz. vol. 157; p. 1107.
Pneumatic carrier-separator. H. D. Waterhouse. No. 968,614; Aug. 30; Sp. p. 5909; Gaz. vol. 157; p. 1041.
Pneumatic cleaner. A. C. Buell. No. 949,370; Feb. 15; Sp. p. 3343; Gaz. vol. 151; p. 585.
Pneumatic cleaner. E. A. Laughlin. No. 955,886; Apr. 26; Sp. p. 4772; Gaz. vol. 153; p. 844.
Pneumatic cleaner. A. Lotz. No. 956,535; May 3; Sp. p. 56; Gaz. vol. 154; p. 12.
Pneumatic cleaner. E. A. Laughlin. No. 960,564; June 7; Sp. p. 668; Gaz. vol. 155; p. 110.
Pneumatic cleaner. F. H. Hirth. No. 962,569; June 28; Sp. p. 4940; Gaz. vol. 155; p. 865.
Pneumatic cleaner. E. and W. E. Gross and W. Felter. No. 976,566; Nov. 22; Sp. p. 5499; Gaz. vol. 160; p. 929.
Pneumatic cleaner. F. J. Machette. No. 978,916; Dec. 20; Sp. p. 3206; Gaz. vol. 161; p. 569.
Pneumatic cleaner and force-cup, Combined. L. O. Howell. No. 975,527; Nov. 15; Sp. p. 3232; Gaz. vol. 160; p. 551.
Pneumatic-cleaner separator. F. B. Craver. No. 946,535; Jan. 18; Sp. p. 3440; Gaz. vol. 150; p. 578.
Pneumatic cleaning apparatus. F. J. Matchette, C. Gordon, and C. Moukos. No. 973,446; Oct. 18; Sp. p. 4253; Gaz. vol. 159; p. 725.
Pneumatic cleaning system. G. J. and A. W. Kindel. No. 950,722; Mar. 1; Sp. p. 567; Gaz. vol. 152; p. 89.
Pneumatic cleansing apparatus. A. E. Moorhead. (Reissue.) No. 13,155; Oct. 11; Sp. p. 2770; Gaz. vol. 159; p. 471.
Pneumatic coupling. D. B. Stanley. No. 978,071; Dec. 6; Sp. p. 1393; Gaz. vol. 161; p. 224.
Pneumatic cushion, Pocket. C. B. Archer. No. 969,439; Sept. 6; Sp. p. 609; Gaz. vol. 158; p. 97.
Pneumatic-despatch apparatus. T. Bemis. No. 975,501; Nov. 15; Sp. p. 3170; Gaz. vol. 160; p. 540.
Pneumatic-despatch apparatus, Sending mechanism for. H. D. Waterhouse. No. 974,618; Nov. 1; Sp. p. 1231; Gaz. vol. 160; p. 189.
Pneumatic-despatch systems, Receiving apparatus for. H. D. Waterhouse. No. 974,617; Nov. 1; Sp. p. 1227; Gaz. vol. 160; p. 189.
Pneumatic-despatch tube. J. G. Maclaren. No. 960,656; June 7; Sp. p. 850; Gaz. vol. 155; p. 140.
Pneumatic-despatch-tube apparatus. E. A. Fordyce. No. 960,531; June 7; Sp. p. 595; Gaz. vol. 155; p. 97.
Pneumatic-despatch-tube apparatus. L. G. Bartlett. No. 962,072; June 21; Sp. p. 3823; Gaz. vol. 155; p. 670.
Pneumatic-despatch-tube apparatus. L. G. Bartlett. No. 962,073; June 21; Sp. p. 3826; Gaz. vol. 155; p. 670.
Pneumatic-despatch-tube apparatus. C. F. Stoddard. No. 962,797; June 28; Sp. p. 5408; Gaz. vol. 155; p. 944.
Pneumatic-despatch-tube apparatus. A. W. Pearsall. No. 962,853; June 28; Sp. p. 5506; Gaz. vol. 155; p. 963.
Pneumatic-despatch-tube apparatus. A. W. Pearsall. No. 962,854; June 28; Sp. p. 5508; Gaz. vol. 155; p. 964.
Pneumatic-despatch-tube apparatus. E. A. Fordyce. No. 968,141; Aug. 23; Sp. p. 4900; Gaz. vol. 157; p. 850.
Pneumatic-despatch-tube apparatus. C. R. Libby. No. 968,576; Aug. 30; Sp. p. 5835; Gaz. vol. 157; p. 1029.
Pneumatic-despatch-tube apparatus. J. G. Maclaren. No. 968,580; Aug. 30; Sp. p. 5844; Gaz. vol. 157; p. 1030.
Pneumatic-despatch-tube apparatus. J. G. Maclaren. No. 968,581; Aug. 30; Sp. p. 5846; Gaz. vol. 157; p. 1031.
Pneumatic-despatch-tube apparatus. A. W. Pearsall. No. 968,598; Aug. 30; Sp. p. 5876; Gaz. vol. 157; p. 1036.
Pneumatic-despatch-tube apparatus. C. S. Jennings. No. 972,381; Oct. 11; Sp. p. 1874; Gaz. vol. 159; p. 329.
Pneumatic-despatch-tube apparatus. J. S. Jacques. No. 974,799; Nov. 8; Sp. p. 1629; Gaz. vol. 160; p. 273.
Pneumatic-despatch-tube apparatus. C. F. Stoddard. No. 975,903; Nov. 15; Sp. p. 4015; Gaz. vol. 160; p. 677.
Pneumatic-despatch-tube apparatus. J. T. Needham. No. 976,744; Nov. 22; Sp. p. 5835; Gaz. vol. 160; p. 989.
Pneumatic-despatch-tube apparatus. J. G. Maclaren. No. 977,110; Nov. 29; Sp. p. 6705; Gaz. vol. 160; p. 1141.
Pneumatic-despatch-tube apparatus. A. W. Pearsall. No. 978,198; Dec. 13; Sp. p. 1698; Gaz. vol. 161; p. 298.
Pneumatic-despatch-tube apparatus. J. T. Cowley. No. 978,271; Dec. 13; Sp. p. 1858; Gaz. vol. 161; p. 325.
Pneumatic-despatch-tube apparatus. J. T. Cowley. No. 978,272; Dec. 13; Sp. p. 1860; Gaz. vol. 161; p. 326.
Pneumatic-despatch-tube apparatus, Automatic switch for. I. W. Litchfield. No. 968,577; Aug. 30; Sp. p. 5837; Gaz. vol. 157; p. 1029.
Pneumatic-despatch-tube-apparatus carrier. C. F. Stoddard. No. 962,796; June 28; Sp. p. 5405; Gaz. vol. 155; p. 943.
Pneumatic-despatch-tube-apparatus carrier. M. L. Emerson. No. 977,083; Nov. 29; Sp. p. 6641; Gaz. vol. 160; p. 1132.
Pneumatic-despatch-tube apparatus, Carrier for. M. L. Emerson. No. 958,240; May 17; Sp. p. 3885; Gaz. vol. 154; p. 656.
Pneumatic-despatch-tube-apparatus terminal. C. S. Jennings. No. 968,567; Aug. 30; Sp. p. 5821; Gaz. vol. 157; p. 1025.
Pneumatic-despatch-tube carrier. A. W. Pearsall. No. 962,045; June 21; Sp. p. 3759; Gaz. vol. 155; p. 659.
Pneumatic-despatch-tube system. F. H. Wolever. No. 948,714; Feb. 8; Sp. p. 1979; Gaz. vol. 151; p. 339.
Pneumatic-despatch-tube systems, Sending-terminal for. F. H. Wolever. No. 965,494; July 26; Sp. p. 5376; Gaz. vol. 156; p. 920.
Pneumatic-despatch-tube terminal. C. S. Jennings. No. 968,566; Aug. 30; Sp. p. 5819; Gaz. vol. 157; p. 1024.
Pneumatic device for cleaning irregular surfaces. A. E. Moorhead. No. 955,467; Apr. 19; Sp. p. 3820; Gaz. vol. 153; p. 671.
Pneumatic drill. S. A. Titus. No. 955,924; Apr. 26; Sp. p. 4843; Gaz. vol. 153; p. 857.
Pneumatic drill. R. A. Norling. No. 969,394; Sept. 6; Sp. p. 521; Gaz. vol. 158; p. 83.
Pneumatic drill. J. L. Mitchell. No. 977,894; Dec. 6; Sp. p. 1029; Gaz. vol. 161; p. 163.
Pneumatic elevator. G. and J. Bernert. No. 977,849; Dec. 6; Sp. p. 932; Gaz. vol. 161; p. 147.
Pneumatic motor. T. Danquard. No. 957,751; May 10; Sp. p. 2650; Gaz. vol. 154; p. 457.
Pneumatic motor. E. T. Turney. No. 967,271; Aug. 16; Sp. p. 3082; Gaz. vol. 157; p. 534.
Pneumatic operating devices, Electrically-operated control mechanism for. H. Rowntree. No. 967,245; Aug. 16; Sp. p. 3035; Gaz. vol. 157; p. 525.
Pneumatic players, Accentuating mechanism for. G. P. Brand. No. 960,262; June 7; Sp. p. 38; Gaz. vol. 155; p. 10.
Pneumatic separator. F. A. Brenner. No. 977,160; Nov. 29; Sp. p. 6816; Gaz. vol. 160; p. 1159.
Pneumatic spring. A. F. Rockwell. No. 962,246; June 21; Sp. p. 4198; Gaz. vol. 155; p. 729.
Pneumatic spring. B. Bell. No. 971,583; Oct. 4; Sp. p. 155; Gaz. vol. 159; p. 29.
Pneumatic spring. I. J. Stadelmann. No. 979,044; Dec. 20; Sp. p. 3511; Gaz. vol. 161; p. 615.
Pneumatic suction-cleaner. D. D. Griffiths. No. 963,139; July 5; Sp. p. 284; Gaz. vol. 156; p. 39.

Alphabetical list of inventions—Continued.

Pneumatic transmission system. J. J. Stoetzel. No. 959,642; May 31; Sp. p. 6945; Gaz. vol. 154; p. 1183.
Pneumatic tube, Sectional. F. R. Baylis. No. 976,840; Nov. 29; Sp. p. 6070; Gaz. vol. 160; p. 1046.
Pneumatic-tube system. B. C. Batcheller. No. 961,999; June 21; Sp. p. 3659; Gaz. vol. 155; p. 643.
Pneumatics, Mechanism for covering leaf-. H. W. Stowe. No. 974,446; Nov. 1; Sp. p. 849; Gaz. vol. 160; p. 125.
Pocket-article guard. S. Korf. No. 955,596; Apr. 19; Sp. p. 4112; Gaz. vol. 153; p. 715.
Pocket attachment, Garment-. J. Lipkey. No. 960,651; June 7; Sp. p. 844; Gaz. vol. 155; p. 138.
Pocket-book or purse. O. A. De Long. No. 950,898; Mar. 1; Sp. p. 920; Gaz. vol. 152; p. 147.
Pocket-case. A. Franke. No. 974,371; Nov. 1; Sp. p. 665; Gaz. vol. 160; p. 100.
Pocket-case, Combination. Z. Hudson. No. 971,892; Oct. 4; Sp. p. 818; Gaz. vol. 159; p. 141.
Pocket-clasp for papers. S. Craig. No. 951,178; Mar. 8; Sp. p. 1446; Gaz. vol. 152; p. 262.
Pocket-closer. J. Schuller. No. 963,815; July 12; Sp. p. 1760; Gaz. vol. 156; p. 291.
Pocket, Coat-. J. N. Withey. No. 946,301; Jan. 11; Sp. p. 2849; Gaz. vol. 150; p. 473.
Pocket-fastener. R. E. Hall. No. 979,156; Dec. 20; Sp. p. 3792; Gaz. vol. 161; p. 657.
Pocket, Foot-rule. A. Wolff. No. 969,590; Sept. 6; Sp. p. 950; Gaz. vol. 158; p. 150.
Pocket for garments. M. Lewin. No. 955,649; Apr. 19; Sp. p. 4233; Gaz. vol. 153; p. 733.
Pocket for garments. C. E. Morris. No. 959,247; May 24; Sp. p. 6136; Gaz. vol. 154; p. 1025.
Pocket-guard. A. J. Bellah. No. 949,673; Feb. 15; Sp. p. 3928; Gaz. vol. 151; p. 685.
Pocket-knife. I. Kinney. No. 947,823; Feb. 1; Sp. p. 74; Gaz. vol. 151; p. 16.
Pocket-knife. J. L. and W. Schrade. No. 969,909; Sept. 13; Sp. p. 1650; Gaz. vol. 158; p. 285.
Pocket-knife. D. W. Bryant. No. 975,015; Nov. 8; Sp. p. 2134; Gaz. vol. 160; p. 348.
Pocket-knife, Unfolding. J. Feinenburg. No. 963,428; July 5; Sp. p. 933; Gaz. vol. 156; p. 139.
Pocket, Pencil-holder. F. A. Weeks. No. 965,669; July 26; Sp. p. 5775; Gaz. vol. 156; p. 983.
Pocket safety device. I. G. Bergenstrohle. No. 978,106; Dec. 6; Sp. p. 1469; Gaz. vol. 161; p. 237.
Pocket, Saleswoman's. G. Baker. No. 967,487; Aug. 16; Sp. p. 3537; Gaz. vol. 157; p. 608.
Pocket, Watch-. J. W. Hughes. No. 953,619; Mar. 29; Sp. p. 6543; Gaz. vol. 152; p. 1169.
Poisoning product, Animal-. F. Bolduan and C. S. Dyas. No. 962,886; June 28; Sp. p. 5580; Gaz. vol. 155; p. 976.
Poke, Animal-. H. S. Watrous. No. 954,551; Apr. 12; Sp. p. 1819; Gaz. vol. 153; p. 327.
Poke, Animal-. W. Brewer. No. 956,755; May 3; Sp. p. 549; Gaz. vol. 154; p. 88.
Poke, Animal-. J. W. Guffin. No. 962,507; June 28; Sp. p. 4788; Gaz. vol. 155; p. 843.
Poke, Animal-. R. W. Crossman. No. 964,758; July 19; Sp. p. 3856; Gaz. vol. 156; p. 642.
Poke, Animal-. C. C. Babb. No. 966,881; Aug. 9; Sp. p. 2278; Gaz. vol. 157; p. 373.
Poke, Animal-. O. O. Clark. No. 971,594; Oct. 4; Sp. p. 181; Gaz. vol. 159; p. 33.
Poke, Animal-. H. T. Kelley, G. N. Matthews, and G. F. Davis. No. 971,618; Oct. 4; Sp. p. 238; Gaz. vol. 159; p. 42.
Poke or yoke, Animal. H. D. Floyd. No. 970,484; Sept. 20; Sp. p. 2859; Gaz. vol. 158; p. 500.
Poker. W. L. Janwich. No. 957,679; May 10; Sp. p. 2508; Gaz. vol. 154; p. 433.
Pole. J. P. Petersen. No. 978,932; Dec. 20; Sp. p. 3244; Gaz. vol. 161; p. 575.
Pole-anchor. K. T. Hovrud. No. 958,127; May 17; Sp. p. 3661; Gaz. vol. 154; p. 617.
Pole and shafts, Combined carriage. E. J. Holmes. No. 977,093; Nov. 29; Sp. p. 6664; Gaz. vol. 160; p. 1135.
Pole appliance. T. H. Brigg. No. 946,593; Jan. 18; Sp. p. 3536; Gaz. vol. 150; p. 595.
Pole-base. M. H. Murray. No. 951,142; Mar. 8; Sp. p. 1376; Gaz. vol. 152; p. 250.
Pole-base. J. B. McMillan. No. 961,521; June 14; Sp. p. 2637; Gaz. vol. 155; p. 460.
Pole-base. A. B. Cook and J. M. Miller. No. 967,107; Aug. 9; Sp. p. 2750; Gaz. vol. 157; p. 451.
Pole, Cast-metal. C. G. Ette. No. 946,665; Jan. 18; Sp. p. 3699; Gaz. vol. 150; p. 619.
Pole, Metallic. W. R. Kinnear. No. 973,670; Oct. 25; Sp. p. 4751; Gaz. vol. 159; p. 825.
Pole or post, Metal and concrete. W. R. Chisholm. No. 964,491; July 19; Sp. p. 3156; Gaz. vol. 156; p. 549.
Pole or tongue, Draft. H. Anderson. No. 978,806; Dec. 13; Sp. p. 2981; Gaz. vol. 161; p. 505.
Pole-tip. E. N. Robinson. No. 961,318; June 14; Sp. p. 2219; Gaz. vol. 155; p. 393.
Pole-tip. L. L. Moore. No. 970,081; Sept. 13; Sp. p. 2024; Gaz. vol. 158; p. 343.
Pole, Vehicle-. A. L. Summer. No. 951,429; Mar. 8; Sp. p. 1969; Gaz. vol. 152; p. 343.
Pole, Vehicle-. G. J. Thust. No. 957,582; May 10; Sp. p. 2300; Gaz. vol. 154; p. 399.
Pole, Vehicle-. J. N. O'Neill. No. 966,117; Aug. 2; Sp. p. 576; Gaz. vol. 157; p. 94.
Poles, Apparatus for preserving wooden. J. T. Logan. No. 956,382; Apr. 26; Sp. p. 5847; Gaz. vol. 153; p. 1016.
Poles or posts, Base for. H. M. Hughes. No. 976,879; Nov. 29; Sp. p. 6156; Gaz. vol. 160; p. 1061.
Poles or posts, Telescoping core for forming plastic. F. H. Tidnam and J. N. Graves. No. 973,239; Oct. 18; Sp. p. 3829; Gaz. vol. 159; p. 655.
Polish-receptacle. F. A. Ellis. No. 968,752; Aug. 30; Sp. p. 6235; Gaz. vol. 157; p. 1090.
Polisher. J. E. Curtis. No. 948,691; Feb. 8; Sp. p. 1929; Gaz. vol. 151; p. 331.
Polishing compound. E. M. and C. C. Hughes. No. 967,777; Aug. 16; Sp. p. 4118; Gaz. vol. 157; p. 705.
Polishing device. B. M. Schauman. No. 949,045; Feb. 15; Sp. p. 2675; Gaz. vol. 151; p. 476.
Polishing-head. E. T. Pollard. No. 976,689; Nov. 22; Sp. p. 5726; Gaz. vol. 160; p. 970.
Polishing-machine. J. Pursehouse. No. 961,529; June 14; Sp. p. 2664; Gaz. vol. 155; p. 463.
Polishing-machine. J. G. Giesberg. No. 964,101; July 12; Sp. p. 2371; Gaz. vol. 156; p. 389.
Polishing-machine. H. D. Hodge. No. 973,350; Oct. 18; Sp. p. 4048; Gaz. vol. 159; p. 693.
Polishing-machine. A. Thompson. No. 975,088; Nov. 8; Sp. p. 2283; Gaz. vol. 160; p. 373.
Polishing means. G. F. Courtois. No. 952,186; Mar. 15; Sp. p. 3472; Gaz. vol. 152; p. 625.
Polishing or buffing wheel. G. P. Stevens. No. 968,431; Aug. 23; Sp. p. 5515; Gaz. vol. 157; p. 951.
Polishing-wheel. S. A. Cochell. No. 957,496; May 10; Sp. p. 2140; Gaz. vol. 154; p. 370.
Polychrome screen and making same. C. L. A. Brasseur. No. 976,118; Nov. 15; Sp. p. 4435; Gaz. vol. 160; p. 751.
Polychrome screen and making the same. C. L. A. Brasseur. No. 974,464; Nov. 1; Sp. p. 896; Gaz. vol. 160; p. 132.
Polygon-inscriber. B. Dwofsky. No. 979,449; Dec. 27; Sp. p. 4383; Gaz. vol. 161; p. 776.
Pontil-head. F. Warner. No. 953,247; Mar. 29; Sp. p. 5741; Gaz. vol. 152; p. 1041.
Pool and billiard table ball-frame. B. N. Hutzel. No. 966,552; Aug. 9; Sp. p. 1548; Gaz. vol. 157; p. 264.
Pool and billiard table, Combination. J. Byner. No. 980,142; Dec. 27; Sp. p. 5914; Gaz. vol. 161; p. 1010.
Pool-ball rack. G. F. Goss. No. 971,128; Sept. 27; Sp. p. 4222; Gaz. vol. 158; p. 746.
Pool-register. E. B. Rees. No. 951,887; Mar. 15; Sp. p. 2915; Gaz. vol. 152; p. 527.
Pool-table. B. Giulio. No. 964,236; July 12; Sp. p. 2632; Gaz. vol. 156; p. 433.
Pool-table pocket. T. Maroney. No. 953,853; Apr. 5; Sp. p. 346; Gaz. vol. 153; p. 61.
Pools and tanks, Method and means for filling. R. A. Higgins. No. 953,529; Mar. 29; Sp. p. 6360; Gaz. vol. 152; p. 1139.
Porous articles, Apparatus for impregnating. J. H. Ketcheson and R. W. Goeb. No. 970,509; Sept. 20; Sp. p. 2908; Gaz. vol. 158; p. 508.
Porous pipe and manufacturing the same. R. L. Ziller. No. 968,226; Aug. 23; Sp. p. 5102; Gaz. vol. 157; p. 879.
Porpoise-catching trap. C. F. Pike. No. 972,227; Oct. 11; Sp. p. 1577; Gaz. vol. 159; p. 277.
Porpoise-catching trap. C. F. Pike. No. 972,228; Oct. 11; Sp. p. 1579; Gaz. vol. 159; p. 277.
Porpoise-catching trap. C. F. Pike. No. 972,229; Oct. 11; Sp. p. 1581; Gaz. vol. 159; p. 277.
Porpoise-catching trap. C. F. Pike. No. 972,230; Oct. 11; Sp. p. 1582; Gaz. vol. 159; p. 278.
Porpoise-catching trap. C. F. Pike. No. 972,231; Oct. 11; Sp. p. 1584; Gaz. vol. 159; p. 278.
Porpoise-catching trap. C. F. Pike. No. 972,233; Oct. 11; Sp. p. 1586; Gaz. vol. 159; p. 279.
Porpoise-catching trap. C. F. Pike. No. 972,234; Oct. 11; Sp. p. 1588; Gaz. vol. 159; p. 279.
Porpoise-catching trap. C. F. Pike. No. 972,235; Oct. 11; Sp. p. 1589; Gaz. vol. 159; p. 279.
Port, Ventilated. W. H. Dougherty. No. 945,764; Jan. 11; Sp. p. 1685; Gaz. vol. 150; p. 282.
Portable bath. A. E. Hoover. No. 965,713; July 26; Sp. p. 5877; Gaz. vol. 156; p. 998.
Portable bracket. R. J. Birdwell. No. 956,032; Apr. 26; Sp. p. 5066; Gaz. vol. 153; p. 896.
Portable elevator. J. B. Ball. No. 955,936; Apr. 26; Sp. p. 4867; Gaz. vol. 153; p. 861.
Portable elevator. G. E. Wunder. No. 959,679; May 31; Sp. p. 7035; Gaz. vol. 154; p. 1195.
Portable elevator. E. A. Fritz and H. J. Carson. No. 973,495; Oct. 25; Sp. p. 4373; Gaz. vol. 159; p. 765.
Portable elevator. A. Zikmund. No. 975,597; Nov. 15; Sp. p. 3379; Gaz. vol. 160; p. 574.
Portable heater. S. Bergstein. No. 960,064; May 31; Sp. p. 7914; Gaz. vol. 154; p. 1328.
Portable heater. F. E. Schartow, O. H. and W. H. White. No. 966,058; Aug. 2; Sp. p. 468; Gaz. vol. 157; p. 75.
Portable house. D. C. Slater. No. 960,207; May 31; Sp. p. 8179; Gaz. vol. 154; p. 1376.
Portable house. R. R. Brewer. No. 974,233; Nov. 1; Sp. p. 338; Gaz. vol. 160; p. 48.

Portable lock for doors and windows. A. C. Bates. No 971,717; Oct. 4; Sp. p. 430; Gaz. vol. 159; p. 75.
Portable reel. G. Hollandsworth. No. 968,476; Aug. 23; Sp. p. 5602; Gaz. vol. 157; p. 967.
Portable table. C. H. Mercer. No. 947,115; Jan. 18; Sp. p. 4662; Gaz. vol. 150; p. 770.
Post: *See* Binding-post; Cement post; Concrete post; Concrete fence-post; Fence-post; Jack-post; Lamp-post; Lathe tool-post; Seat-post; Supporting-post; Tool-post.
Post. H. J. Stratton. No. 958,946; May 24; Sp. p. 5511; Gaz. vol. 154; p. 925.
Post. W. T. Hicks. No. 963,004; June 28; Sp. p. 5790; Gaz. vol. 155; p. 1013.
Post. H. Garfinkel. No. 965,101; July 19; Sp. p. 4549; Gaz. vol. 156; p. 758.
Post. J. P. Quinn. No. 970,552; Sept. 20; Sp. p. 3007; Gaz. vol. 158; p. 523.
Post-anchor. J. Laux. No. 955,086; Apr. 12; Sp. p. 3004; Gaz. vol. 153; p. 509.
Post-binder. R. E. Murphy. No. 957,895; May 17; Sp. p. 2960; Gaz. vol. 154; p. 535.
Post-brace. E. L. Thompson and M. C. Brice. No. 962,271; June 21; Sp. p. 4265; Gaz. vol. 155; p. 737.
Post-brace anchor. C. I. Stocking. No. 948,532; Feb. 8; Sp. p. 1582; Gaz. vol. 151; p. 279.
Post-cap and timber-seat. O. R. Schrader. No. 974,606; Nov. 1; Sp. p. 1202; Gaz. vol. 160; p. 184.
Post-card. V. C. Freeman and C. T. Mack. No. 963,886; July 12; Sp. p. 1922; Gaz. vol. 156; p. 316.
Post-card. C. E. Lowe. No. 966,107; Aug. 2; Sp. p. 560; Gaz. vol. 157; p. 91.
Post-card. T. Graham. No. 972,361; Oct. 11; Sp. p. 1838; Gaz. vol. 159; p. 322.
Post-card holder. C. Ewing. No. 950,690; Mar. 1; Sp. p. 484; Gaz. vol. 152; p. 78.
Post-cards and similar copies, Apparatus for the production of bromid-of-silver. T. Busam. No. 978,126; Dec. 6; Sp. p. 1516; Gaz. vol. 161; p. 244.
Post-forming mold. W. W. Bailey. No. 947,093; Jan. 18; Sp. p. 4622; Gaz. vol. 150; p. 763.
Post-hole digger. E. Sutherland. No. 947,952; Feb. 1; Sp. p. 364; Gaz. vol. 151; p. 59.
Post-hole digger. R. H. Vesey. No. 957,127; May 3; Sp. p. 1334; Gaz. vol. 154; p. 213.
Post-hole digger. R. H. Vesey. No. 957,128; May 3; Sp. p. 1336; Gaz. vol. 154; p. 214.
Post-hole digger. W. L. Stricklin. No. 961,656; June 14; Sp. p. 2921; Gaz. vol. 155; p. 506.
Post-hole digger. M. Freemark. No. 978,444; Dec. 13; Sp. p. 2216; Gaz. vol. 161; p. 384.
Post-hole-digging machine. L. J. Kerigan and P. J. Lawler. No. 969,062; Aug. 30; Sp. p. 6857; Gaz. vol. 157; p. 1193.
Post-impregnating apparatus. J. C. Morin and F. M. Reed. No. 955,422; Apr. 19; Sp. p. 3730; Gaz. vol. 153; p. 655.
Post-mold. R. A. Leonard. No. 946,606; Jan. 18; Sp. p. 3567; Gaz. vol. 150; p. 600.
Post-mold. W. T. Hicks. No. 962,760; June 28; Sp. p. 5330; Gaz. vol. 155; p. 931.
Post-mold. G. H. Fenske. No. 970,904; Sept. 20; Sp. p. 3774; Gaz. vol. 158; p. 644.
Post-mold. L. H. Scott. No. 977,136; Nov. 29; Sp. p. 6767; Gaz. vol. 160; p. 1151.
Post-offices, Assorting and routing case for. C. H. H. Bailey. No. 956,925; May 3; Sp. p. 924; Gaz. vol. 154; p. 147.
Post or column of metal, cement, &c. J. T. G. Hand. No. 967,374; Aug. 16; Sp. p. 3290; Gaz. vol. 157; p. 570.
Post or pole forming device. M. B. Kelsey and H. L. Monarch. No. 975,135; Nov. 8; Sp. p. 2398; Gaz. vol. 160; p. 389.
Post-support, Adjustable. J. E. Bond. No. 972,989; Oct. 18; Sp. p. 3268; Gaz. vol. 159; p. 569.
Posts, Anchoring-base for. P. T. Bailey. No. 952,404; Mar. 15; Sp. p. 3903; Gaz. vol. 152; p. 699.
Posts, Anchoring-base for. P. T. Bailey. No. 966,155; Aug. 2; Sp. p. 663; Gaz. vol. 157; p. 106.
Posts, Ball-cap for binder-. G. A. Shoemaker and E. C. Holland. No. 979,713; Dec. 27; Sp. p. 4941; Gaz. vol. 161; p. 866.
Posts, Construction of. R. C. Stewart. No. 958,334; May 17; Sp. p. 4241; Gaz. vol. 154; p. 691.
Posts to concrete bases, Means for attaching the ends of. G. M. Ross. No. 953,060; Mar. 29; Sp. p. 5322; Gaz. vol. 152; p. 979.
Postal-card shield or cover. I. T. Doxsee. No. 945,710; Jan. 4; Sp. p. 1503; Gaz. vol. 150; p. 235.
Postal-money-order packet. J. S. Utley. No. 975,737; Nov. 15; Sp. p. 3684; Gaz. vol. 160; p. 621.
Pot: *See* Coffee-pot; Coffee and tea pot; Coffee or tea pot; Fire-pot; Flower-pot; Glass-pot; Marking-pot; Percolator-pot; Plumber's pot; Stenciling and marking pot; Teapot; Tea or coffee pot; Transplanting-pot.
Pot-handle, Pivotal. P. Rotondo. No. 948,187; Feb. 1; Sp. p. 831; Gaz. vol. 151; p. 137.
Potash compounds soluble, Rendering. F. R. Carpenter. No. 959,841; May 31; Sp. p. 7384; Gaz. vol. 154; p. 1250.
Potash, Preparing caustic. H. Reitz. No. 971,145; Sept. 27; Sp. p. 4270; Gaz. vol. 158; p. 752.
Potash salts, Recovering. A. Alberti. No. 957,295; May 10; Sp. p. 1733; Gaz. vol. 154; p. 303.
Potato-bug exterminator. S. W. Reed. No. 963,011; June 28; Sp. p. 5803; Gaz. vol. 155; p. 1016.
Potato cleaner and sprouter. A. F. Seligman. No. 955,364; Apr. 19; Sp. p. 3603; Gaz. vol. 153; p. 636.
Potato cleaning and assorting machine. J. A. Bittle. No. 948,842; Feb. 8; Sp. p. 2253; Gaz. vol. 151; p. 382.
Potato cleaning and barreling device. A. E. Green and C. A. McIntosh. No. 956,338; Apr. 26; Sp. p. 5752; Gaz. vol. 153; p. 1001.
Potato-cutter. H. E. Wells. No. 947,362; Jan. 25; Sp. p. 5245; Gaz. vol. 150; p. 883.
Potato-cutter. E. Brown. No. 947,467; Jan. 25; Sp. p. 5483; Gaz. vol. 150; p. 916.
Potato-cutter. J. Snyder. No. 957,118; May 3; Sp. p. 1317; Gaz. vol. 154; p. 210.
Potato-cutter. C. G. Marden. No. 962,373; June 21; Sp. p. 4471; Gaz. vol. 155; p. 771.
Potato cutter, Seed-. B. Porter. No. 972,911; Oct. 18; Sp. p. 3083; Gaz. vol. 159; p. 541.
Potato cutting and planting machine. S. E. McKnight. No. 971,064; Sept. 27; Sp. p. 4101; Gaz. vol. 158; p. 725.
Potato-cutting machine, Seed-. B. R. and M. J. Lyster. No. 961,363; June 14; Sp. p. 2312; Gaz. vol. 155; p. 408.
Potato-digger. H. Rohrbach. No. 947,742; Jan. 25; Sp. p. 6054; Gaz. vol. 150; p. 1009.
Potato-digger. W. C. Rowe. No. 952,082; Mar. 15; Sp. p. 3281; Gaz. vol. 152; p. 591.
Potato-digger. G. W. Jessup. No. 952,200; Mar. 15; Sp. p. 3499; Gaz. vol. 152; p. 630.
Potato-digger. J. Reuther. No. 952,946; Mar. 22; Sp. p. 5085; Gaz. vol. 152; p. 913.
Potato-digger. R. W. McKay. No. 953,968; Apr. 5; Sp. p. 559; Gaz. vol. 153; p. 101.
Potato-digger. J. M. Fallick. No. 954,024; Apr. 5; Sp. p. 683; Gaz. vol. 153; p. 120.
Potato-digger. R. W. McKay. No. 954,042; Apr. 5; Sp. p. 720; Gaz. vol. 153; p. 126.
Potato-digger. J. S. Hogeland. No. 958,250; May 17; Sp. p. 3918; Gaz. vol. 154; p. 659.
Potato-digger. W. I. Skinner. No. 961,545; June 14; Sp. p. 2705; Gaz. vol. 155; p. 469.
Potato-digger. P. A. Thompson. No. 965,667; July 26; Sp. p. 5772; Gaz. vol. 156; p. 982.
Potato-digger. J. Reuther. No. 967,556; Aug. 16; Sp. p. 3670; Gaz. vol. 157; p. 632.
Potato-digger. J. Reuther. No. 967,557; Aug. 16; Sp. p. 3673; Gaz. vol. 157; p. 632.
Potato-digger. W. F. Headland. No. 969,690; Sept. 6; Sp. p. 1138; Gaz. vol. 158; p. 184.
Potato-digger. R. Rohr. No. 971,643; Oct. 4; Sp. p. 279; Gaz. vol. 159; p. 50.
Potato-digger. O. Tardif. No. 972,037; Oct. 4; Sp. p. 1157; Gaz. vol. 159; p. 194.
Potato-digger. G. W. Jessup, Sr. No. 977,803; Dec. 6; Sp. p. 836; Gaz. vol. 161; p. 131.
Potato-digger. W. E. Martin. No. 978,179; Dec. 13; Sp. p. 1665; Gaz. vol. 161; p. 292.
Potato digger and separator. O. R. Brown. No. 952,873; Mar. 22; Sp. p. 4936; Gaz. vol. 152; p. 888.
Potato-digger point. O. R. Brown. No. 952,872; Mar. 22; Sp. p. 4935; Gaz. vol. 152; p. 888.
Potato-digging machine. O. H. Claflin. No. 979,432; Dec. 27; Sp. p. 4338; Gaz. vol. 161; p. 770.
Potato-eye cutter. H. C. Conner and C. Burns. No. 967,882; Aug. 23; Sp. p. 4328; Gaz. vol. 157; p. 763.
Potato-fork. H. Schlarf. No. 971,863; Oct. 4; Sp. p. 752; Gaz. vol. 159; p. 130.
Potato-gathering attachment. F. A. Hughes. No. 963,766; July 12; Sp. p. 1631; Gaz. vol. 156; p. 275.
Potato-grader. H. Peterson. No. 962,048; June 21; Sp. p. 3764; Gaz. vol. 155; p. 660.
Potato masher and beater. S. R. Albright. No. 951,670; Mar. 8; Sp. p. 2454; Gaz. vol. 152; p. 425.
Potato pick-up. E. E. Milliken. No. 973,539; Oct. 25; Sp. p. 4463; Gaz. vol. 159; p. 780.
Potato pick-up. E. E. Milliken. No. 973,540; Oct. 25; Sp. p. 4464; Gaz. vol. 159; p. 780.
Potato-piler, Automatic. J. E. Hill. No. 968,562; Aug. 30; Sp. p. 5807; Gaz. vol. 157; p. 1023.
Potato pulling or raising machine. E. V. Méline. No. 947,451; Jan. 25; Sp. p. 5447; Gaz. vol. 150; p. 911.
Potato-separator. C. O. Pallas. No. 952,755; Mar. 22; Sp. p. 4690; Gaz. vol. 152; p. 848.
Potato-sorting machine. E. F. Purdy and P. J. Speicher. No. 952,213; Mar. 15; Sp. p. 3528; Gaz. vol. 152; p. 635.
Potato-vine cutter, Sweet-. D. W. Lindsey. No. 962,367; June 21; Sp. p. 4461; Gaz. vol. 155; p. 769.
Potential-regulation system. W. M. McConahey. No. 968,587; Aug. 30; Sp. p. 5853; Gaz. vol. 157; p. 1032.
Potential switch. J. D. Ihlder. No. 973,508; Oct. 25; Sp. p. 4397; Gaz. vol. 159; p. 769.
Pottery-former. T. Lunn. No. 975,144; Nov. 8; Sp. p. 2416; Gaz. vol. 160; p. 392.
Pottery-kiln. F. G. Haney. No. 965,892; Aug. 2; Sp. p. 102; Gaz. vol. 157; p. 17.
Pottery product. M. W. Marsden. No. 968,379; Aug. 23; Sp. p. 5413; Gaz. vol. 157; p. 934.

Alphabetical list of inventions—Continued.

Poultry drinking-fountain. F. Enos, Jr. No. 969,852; Sept. 13; Sp. p. 1540; Gaz. vol. 158; p. 264.
Poultry drinking-fountain, Antifreezing. W. H. Ashcraft. No. 961,831; June 21; Sp. p. 3302; Gaz. vol. 155; p. 588.
Poultry-duster, Automatic. P. C. Fish. No. 974,252; Nov. 1; Sp. p. 380; Gaz. vol. 160; p. 55.
Poultry-fount. G. W. Duncan. No. 975,607; Nov. 15; Sp. p. 3403; Gaz. vol. 160; p. 578.
Poultry-fountain. K. B. Martin. No. 948,928; Feb. 8; Sp. p. 2407; Gaz. vol. 151; p. 410.
Poultry-fountain. H. E. Bryan. No. 979,420; Dec. 27; Sp. p. 4319; Gaz. vol. 161; p. 766.
Poultry-hook. F. B. Lewis, Jr. No. 970,840; Sept. 20; Sp. p. 3657; Gaz. vol. 158; p. 625.
Poultry-house. W. G. Stout. No. 975,733; Nov. 15; Sp. p. 3675; Gaz. vol. 160; p. 619.
Poultry-killing apparatus. M. L. Shortridge. No. 956,202; Apr. 26; Sp. p. 5457; Gaz. vol. 153; p. 955.
Pounder. C. Fry. No. 956,697; May 3; Sp. p. 435; Gaz. vol. 154; p. 69.
Pouring device. H. Desmolières. No. 975,937; Nov. 15; Sp. p. 4087; Gaz. vol. 160; p. 689.
Powder and other explosives, Apparatus for the manufacture of black. F. I. du Pont. No. 964,550; July 19; Sp. p. 3322; Gaz. vol. 156; p. 568.
Powder and other substances, Instrument for administering. L. J. F. Nicolai. No. 949,302; Feb. 15; Sp. p. 3188; Gaz. vol. 151; p. 562.
Powder. Apparatus for producing kefir. A. Rosenberger. No. 957,104; May 3; Sp. p. 1294; Gaz. vol. 154; p. 206.
Powder, Blasting-. C. Arnoudts. No. 964,365; July 12; Sp. p. 2885; Gaz. vol. 156; p. 476.
Powder-box. W. H. Perkins. No. 947,934; Feb. 1; Sp. p. 325; Gaz. vol. 151; p. 53.
Powder-box. M. F. Shea. No. 955,480; Apr. 19; Sp. p. 3844; Gaz. vol. 153; p. 676.
Powder-box. W. R. Gillette. No. 965,291; July 26; Sp. p. 4937; Gaz. vol. 156; p. 851.
Powder-box. W. H. Perkins. No. 969,398; Sept. 6; Sp. p. 531; Gaz. vol. 158; p. 84.
Powder-distributer. C. H. Leggett. No. 950,931; Mar. 1; Sp. p. 981; Gaz. vol. 152; p. 157.
Powder-divider, Proportional. W. Votteler. No. 976,320; Nov. 22; Sp. p. 4951; Gaz. vol. 160; p. 844.
Powder-ejector. C. W. Kline and H. A. Long. No. 948,057; Feb. 1; Sp. p. 586; Gaz. vol. 151; p. 94.
Powder for blasting, Safety-. G. M. Peters and M. F. Lindsley. No. 953,798; Apr. 5; Sp. p. 232; Gaz. vol. 153; p. 42.
Powder-grains, Machine for perforating and forming cellular. H. Maxim. No. 946,943; Jan. 18; Sp. p. 4341; Gaz. vol. 150; p. 714.
Powder holding and dispensing container. M. L. Rhein. No. 966,053; Aug. 2; Sp. p. 457; Gaz. vol. 157; p. 73.
Powder holding and dispensing container. M. L. Rhein and M. O. Anthony. No. 969,190; Sept. 6; Sp. p. 99; Gaz. vol. 158; p. 16.
Powder-magazine. J. Ervin and W. Keeton. No. 948,923; Feb. 8; Sp. p. 2401; Gaz. vol. 151; p. 409.
Powder-press. A. G. Cummings. No. 965,371; July 26; Sp. p. 5120; Gaz. vol. 156; p. 879.
Powder, Producing an amorphous tungsten. J. Schilling. No. 950,869; Mar. 1; Sp. p. 862; Gaz. vol. 152; p. 138.
Powder-receptacle. D. Dunwoodie and F. J. Dunwoody. No. 963,214; July 5; Sp. p. 487; Gaz. vol. 156; p. 67.
Powder, Size-. F. Beckmann. No. 976,116; Nov. 15; Sp. p. 4432; Gaz. vol. 160; p. 751.
Power: *See* Tide and wave power; Wave-power.
Power apparatus. J. F. Sperry. No. 972,276; Oct. 11; Sp. p. 1666; Gaz. vol. 159; p. 293.
Power by friction. Device for transmission of. C. C. Patton. No. 978,778; Dec. 13; Sp. p. 2942; Gaz. vol. 161; p. 497.
Power-distribution system. W. L. R. Emmet. No. 945,925; Jan. 11; Sp. p. 2050; Gaz. vol. 150; p. 341.
Power-drill. G. H. Condict. No. 962,077; June 21; Sp. p. 3833; Gaz. vol. 155; p. 672.
Power-driven machinery. D. C. Jackson. No. 961,353; June 14; Sp. p. 2297; Gaz. vol. 155; p. 406.
Power from a prime mover to a load. Transmission of. A. C. King and F. Hamer. No. 945,398; Jan. 4; Sp. p. 852; Gaz. vol. 150; p. 132.
Power from the explosion of gases, Deriving. E. P. Dawson. No. 966,805; Aug. 9; Sp. p. 2110; Gaz. vol. 157; p. 350.
Power-generating apparatus. F. W. Lierman. No. 964,923; July 19; Sp. p. 4195; Gaz. vol. 156; p. 700.
Power-generating means. A. Pelletier. No. 957,086; May 3; Sp. p. 1260; Gaz. vol. 154; p. 200.
Power-generating means. C. C. Atkinson. No. 978,425; Dec. 13; Sp. p. 2182; Gaz. vol. 161; p. 378.
Power-generator. L. J. Cavanaugh and E. T. Young. No. 976,547; Nov. 22; Sp. p. 5456; Gaz. vol. 160; p. 922.
Power-generator, Internal-combustion. A. Pelletier. No. 979,554; Dec. 27; Sp. p. 4612; Gaz. vol. 161; p. 811.
Power in precooling plants, Apparatus for economizing. A. Faget. No. 970,807; Sept. 20; Sp. p. 3591; Gaz. vol. 158; p. 614.
Power mechanism. T. R. Cook. No. 970,609; Sept. 20; Sp. p. 3119; Gaz. vol. 158; p. 543.
Power mechanism. J. F. Bard. No. 976,115; Nov. 15; Sp. p. 4431; Gaz. vol. 160; p. 751.
Power-operated drill, Portable. A. S. Edler. No. 972,351; Oct. 11; Sp. p. 1815; Gaz. vol. 159; p. 319.
Power-operated switch or circuit-breaker. H. W. Cheney. No. 960,504; June 7; Sp. p. 531; Gaz. vol. 155; p. 88.
Power plant. A. L. Galusha. No. 974,255; Nov. 1; Sp. p. 385; Gaz. vol. 160; p. 56.
Power plant, Hydro-electric. F. W. Ballard. No. 958,578; May 17; Sp. p. 4714; Gaz. vol. 154; p. 774.
Power-pneumatic. C. L. Davis. No. 947,571; Jan. 25; Sp. p. 5735; Gaz. vol. 150; p. 952.
Power-pneumatic. G. S. Williams. No. 960,610; June 7; Sp. p. 754; Gaz. vol. 155; p. 125.
Power-press. P. R. Hahnemann. No. 972,369; Oct. 11; Sp. p. 1850; Gaz. vol. 159; p. 325.
Power-press attachment. J. G. and H. L. Benster. No. 980,047; Dec. 27; Sp. p. 5683; Gaz. vol. 161; p. 978.
Power-press stop mechanism. G. W. Wheelwright. No. 971,945; Oct. 4; Sp. p. 962; Gaz. vol. 159; p. 161.
Power-producing machine, Weight. P. D'Agostino. No. 951,415; Mar. 8; Sp. p. 1950; Gaz. vol. 152; p. 338.
Power-shipping mechanism. W. H. Lafaelle. No. 953,847; Apr. 5; Sp. p. 331; Gaz. vol. 153; p. 59.
Power transmission. J. G. P. Thomas. No. 948,436; Feb. 8; Sp. p. 1377; Gaz. vol. 151; p. 246.
Power transmission. A. N. Hadley. No. 950,044; Feb. 22; Sp. p. 4833; Gaz. vol. 151; p. 850.
Power transmission. H. W. Fellows. No. 954,384; Apr. 5; Sp. p. 1457; Gaz. vol. 153; p. 242.
Power transmission and controlling apparatus, Fluid. W. E. Pearson. No. 972,223; Oct. 11; Sp. p. 1570; Gaz. vol. 159; p. 275.
Power-transmission apparatus. T. G. Straker. No. 959,814; May 31; Sp. p. 7323; Gaz. vol. 154; p. 1240.
Power-transmission apparatus. D. E. Selders. No. 966,775; Aug. 9; Sp. p. 2050; Gaz. vol. 157; p. 341.
Power-transmission apparatus, Frictional. W. C. Guilder. No. 966,012; Aug. 2; Sp. p. 356; Gaz. vol. 157; p. 57.
Power-transmission device. G. A. Cutter. No. 949,265; Feb. 15; Sp. p. 3115; Gaz. vol. 151; p. 549.
Power-transmission device. S. Lippert. No. 955,816; Apr. 19; Sp. p. 4577; Gaz. vol. 153; p. 791.
Power-transmission device. G. S. Welsh and Z. H. Long. No. 967,277; Aug. 16; Sp. p. 3092; Gaz. vol. 157; p. 535.
Power-transmission device. V. G. Apple. No. 980,044; Dec. 27; Sp. p. 5678; Gaz. vol. 161; p. 977.
Power transmission, Electrical. J. G. P. Thomas. No. 968,290; Aug. 23; Sp. p. 5243; Gaz. vol. 157; p. 902.
Power-transmission mechanism. M. K. Golden and W. H. Kendall. No. 963,138; July 5; Sp. p. 281; Gaz. vol. 156; p. 39.
Power-transmission mechanism. G. E. Molyneux. No. 967,950; Aug. 23; Sp. p. 4466; Gaz. vol. 157; p. 786.
Power-transmission mechanism. H. W. Spellman and C. E. Olmsted. No. 969,214; Sept. 6; Sp. p. 152; Gaz. vol. 158; p. 25.
Power-transmission mechanism. B. D. Fuller, J. R. and T. A. Reilly. No. 970,440; Sept. 13; Sp. p. 2745; Gaz. vol. 158; p. 462.
Power-transmission mechanism. T. C. Dill. No. 970,995; Sept. 20; Sp. p. 3944; Gaz. vol. 158; p. 674.
Power-transmission mechanism. K. A. Kendrick. No. 972,385; Oct. 11; Sp. p. 1882; Gaz. vol. 159; p. 330.
Power-transmission mechanism. J. O. Michaud. No. 979,534; Dec. 27; Sp. p. 4561; Gaz. vol. 161; p. 805.
Power-transmission mechanism, Variable-speed. R. W. Swift. No. 974,308; Nov. 1; Sp. p. 517; Gaz. vol. 160; p. 77.
Power-transmission rope. J. P. Tolman and J. L. Bixby, Jr. No. 974,843; Nov. 8; Sp. p. 1720; Gaz. vol. 160; p. 289.
Power-transmission system, Hydraulic. A. V. T. Day. No. 956,570; May 3; Sp. p. 134; Gaz. vol. 154; p. 24.
Power-transmitting apparatus. H. L. Brown. No. 957,650; May 10; Sp. p. 2442; Gaz. vol. 154; p. 423.
Power-transmitting apparatus. J. Dunlop. No. 965,285; July 26; Sp. p. 4924; Gaz. vol. 156; p. 849.
Power-transmitting apparatus. W. R. McKeen, Jr. No. 973,365; Oct. 18; Sp. p. 4076; Gaz. vol. 159; p. 698.
Power-transmitting apparatus, Hydraulic. C. R. Radcliffe. No. 975,795; Nov. 15; Sp. p. 3798; Gaz. vol. 160; p. 640.
Power-transmitting device. A. W. Whitcomb. No. 954,661; Apr. 12; Sp. p. 2077; Gaz. vol. 153; p. 365.
Power-transmitting device. H. W. Hunt. No. 962,842; June 28; Sp. p. 5486; Gaz. vol. 155; p. 959.
Power-transmitting device. T. J. Levey. No. 974,402; Nov. 1; Sp. p. 724; Gaz. vol. 160; p. 110.
Power-transmitting means. C. Cleiren. No. 965,084; July 19; Sp. p. 4517; Gaz. vol. 156; p. 752.
Power-transmitting mechanism. H. C. Waite. No. 953,308; Mar. 29; Sp. p. 5864; Gaz. vol. 152; p. 1059.
Power-transmitting mechanism. O. P. M. Davis. No. 959,119; May 24; Sp. p. 5864; Gaz. vol. 154; p. 983.
Power-transmitting mechanism. T. F. Weiland. No. 965,348; July 26; Sp. p. 5080; Gaz. vol. 156; p. 872.
Power-transmitting mechanism. C. D. McClintock. No. 970,640; Sept. 20; Sp. p. 3218; Gaz. vol. 158; p. 554.
Power-transmitting mechanism. S. H. Rickard. No. 970,753; Sept. 20; Sp. p. 3465; Gaz. vol. 158; p. 593.

Power-transmitting mechanism, Fluid-controlled. A. Sundh. No. 963,092; July 5; Sp. p. 150; Gaz. vol. 156; p. 23.
Power-transmitting mechanism, Variable-speed. J. G. Jones. No. 975,869; Nov. 15; Sp. p. 3949; Gaz. vol. 160; p. 665.
Precious-metal-bearing materials, Treating. P. W. Avery and E. C. Knowles. No. 963,111; July 5; Sp. p. 229; Gaz. vol. 156; p. 30.
Precious-metal trap. P. A. Brangier and R. Luckenbach. No. 959,300; May 24; Sp. p. 6238; Gaz. vol. 154; p. 1043.
Precious metals, Apparatus for quick cyaniding of. P. A. Brangier and R. Luckenbach. No. 959,301; May 24; Sp. p. 6239; Gaz. vol. 154; p. 1044.
Precious metalliferous ores, Treatment of. J. C. Clancy. No. 976,043; Nov. 15; Sp. p. 4278; Gaz. vol. 160; p. 726.
Precious metalliferous ores, Treatment of. J. C. Clancy. No. 976,044; Nov. 15; Sp. p. 4280; Gaz. vol. 160; p. 726.
Precious metalliferous ores, Treatment of. J. C. Clancy. No. 976,045; Nov. 15; Sp. p. 4281; Gaz. vol. 160; p. 726.
Precious stones for ear-rings or the like, Mounting of. M. Bajoni. No. 964,369; July 12; Sp. p. 2891; Gaz. vol. 156; p. 477.
Precious stones, Setting for. V. A. Gebhardt. No. 954,568; Apr. 12; Sp. p. 1859; Gaz. vol. 153; p. 332.
Precipitation apparatus. T. Edwards. No. 967,744; Aug. 16, Sp. p. 4060; Gaz. vol. 157; p. 695.
Prepayment mechanism. J. B. Kaighn. No. 957,684; May 10; Sp. p. 2515; Gaz. vol. 154; p. 435.
Prescription-case, Portable. C. F. Kurz. No. 959,230; May 24; Sp. p. 6101; Gaz. vol. 154; p. 1020.
Preserve-tin-closing device. A. Johansen. No. 573,354; Oct. 18; Sp. p. 4056; Gaz. vol. 159; p. 694.
Preserving compound. J. W. Stevenson. No. 971,799; Oct. 4; Sp. p. 601; Gaz. vol. 159; p. 105.
Press: *See* Baling-press; Bookbinder's gluing-press; Box-press; Briquet-press; Can-antibuckling press; Car-wheel press; Cement-brick press; Cider-press; Cigar-press; Clamp-press; Clicking-press; Color-press; Concrete-block press; Cotton-press; Cuff-press; Die-press; Domestic press; Drawing-press; Embossing-press; Filter-press; Flanging-press; Floor-board press; Fluid-expansion press; Forging-press; Fruit-press; Fruit-box press; Fruit-box-lid press; Fuel-press; Garbage-press; Glass-press; Hat-forming press; Hay-press; Hydraulic press; Lard-press; Meat-press; Meat and fruit press; Meat roller-press; Metal-press; Mold-press; Oil-press; Powder-press; Power-press; Printing-press; Proof-press; Pulp or paper press; Punch-press; Punching-press; Rotary press; Seal-press; Tire-press; Tobacco-press; Toggle-press; Vulcanizing-press; Web-press; Wheel-press; Wine-press.
Press. N. C. Wallenthin and E. C. Smith. No. 947,360; Jan. 25; Sp. p. 5237; Gaz. vol. 150; p. 882.
Press. W. G. Nymon. No. 949,807; Feb. 22; Sp. p. 4239; Gaz. vol. 151; p. 765.
Press. A. Bates. No. 950,986; Mar. 1; Sp. p. 1088; Gaz. vol. 152; p. 174.
Press. J. H. Marsh. No. 953,173; Mar. 29; Sp. p. 5581; Gaz. vol. 152; p. 1016.
Press. A. C. Tubbs. No. 953,565; Mar. 29; Sp. p. 6426; Gaz. vol. 152; p. 1150.
Press. A. G. Mead. No. 954,449; Apr. 12; Sp. p. 1587; Gaz. vol. 153; p. 291.
Press. R. F. Haerry. No. 954,625; Apr. 12; Sp. p. 1992; Gaz. vol. 153; p. 351.
Press. G. E. Pancoast. No. 956,864; May 3; Sp. p. 793; Gaz. vol. 154; p. 126.
Press. J. Thomson. No. 957,916; May 17; Sp. p. 3026; Gaz. vol. 154; p. 543.
Press. G. Kelly. No. 958,813; May 24; Sp. p. 5212; Gaz. vol. 154; p. 879.
Press. W. Klocke. No. 965,529; July 26; Sp. p. 5484; Gaz. vol. 156; p. 934.
Press. S. J. Webb. No. 966,067; Aug. 2; Sp. p. 484; Gaz. vol. 157; p. 78.
Press. H. D. Spencer. No. 968,090; Aug. 23; Sp. p. 4793; Gaz. vol. 157; p. 833.
Press. I. C. Buckminster No. 968,117; Aug. 23; Sp. p. 4848; Gaz. vol. 157; p. 842.
Press. I. C. Buckminster. No. 968,118; Aug. 23; Sp. p. 4852; Gaz. vol. 157; p. 842.
Press. K. S. Blanchard. No. 975,204; Nov. 8; Sp. p. 2558; Gaz. vol. 160; p. 414.
Press-bed. F. C. Leethem. No. 955,087; Apr. 12; Sp. p. 3006; Gaz. vol. 153; p. 510.
Press for making plaster-board. W. F. Kelly. No. 967,933; Aug. 23; Sp. p. 4434; Gaz. vol. 157; p. 780.
Press gripper mechanism, Cylinder-. H. P. Guillo. No. 979,845; Dec. 27; Sp. p. 5267; Gaz. vol. 161; p. 912.
Press-roll. H. Parker. No. 969,652; Sept. 6; Sp. p. 1066; Gaz. vol. 158; p. 171.
Press-rolls, Making. H. Parker. No. 973,380; Oct. 18; Sp. p. 4122; Gaz. vol. 159; p. 703.
Press-sweep. R. A. Wakefield. No. 956,746; May 3; Sp. p. 525; Gaz. vol. 154; p. 85.
Presses and other machines, Safety appliance for. J. T. Ronan. No. 956,422; Apr. 26; Sp. p. 5918; Gaz. vol. 153; p. 1030.
Presses, Attachment for hydraulic wheel-. M. M. Moran. No. 950,573; Mar. 1; Sp. p. 232; Gaz. vol. 152; p. 39.
Presses, Method of and apparatus for removing coagulated lumps or the like from the dies of extrusion-. E. Lüttmann. No. 956,386; Apr. 26; Sp. p. 5853; Gaz. vol. 153; p. 1017.
Presser-foot. C. A. Potter. No. 948,100; Feb. 1; Sp. p. 669; Gaz. vol. 151; p. 109.
Presser-foot. A. Grieb. No. 955,962; Apr. 26; Sp. p. 4924; Gaz. vol. 153; p. 871.
Presser-foot attachment. M. H. Fogarty. No. 945,384; Jan. 4; Sp. p. 823; Gaz. vol. 150; p. 128.
Presser-foot mechanism. E. E. Winkley. No. 971,014; Sept. 20; Sp. p. 3975; Gaz. vol. 158; p. 680.
Presser-head. W. H. Fisher. No. 955,063; Apr. 12; Sp. p. 2965; Gaz. vol. 153; p. 503.
Pressing and finishing iron, Steam. R. W. Hull. No. 976,571; Nov. 22; Sp. p. 5510; Gaz. vol. 160; p. 931.
Pressing-board, Steam. R. H. Ball. No. 951,673; Mar. 8; Sp. p. 2460; Gaz. vol. 152; p. 426.
Pressing device. F. A. Mills. No. 961,150; June 14; Sp. p. 1831; Gaz. vol. 155; p. 332.
Pressing-iron stands, Shoe for. F. E. Emery. No. 962,894; June 28; Sp. p. 5589; Gaz. vol. 155; p. 977.
Pressing-machine. M. H. Schirmer and J. Lehr. No. 946,401; Jan. 11; Sp. p. 3144; Gaz. vol. 150; p. 506.
Pressing-machine. J. Saltzman. No. 953,399; Mar. 29; Sp. p. 6079; Gaz. vol. 152; p. 1092.
Pressing-machine. H. Lindestrom. No. 954,314; Apr. 5; Sp. p. 1315; Gaz. vol. 153; p. 218.
Pressing-machine. H. Lindestrom. No. 976,384; Nov. 22; Sp. p. 5103; Gaz. vol. 160; p. 866.
Pressing machine, Clothes-. J. Gross. No. 951,909; Mar. 15; Sp. p. 2958; Gaz. vol. 152; p. 536.
Pressing, punching, and cutting machines, &c., Protecting mechanism for. G. Kramer. No. 969,961; Sept. 13; Sp. p. 1777; Gaz. vol. 158; p. 302.
Pressure apparatus, Automatic control for. H. F. Thoma. No. 963,662; July 5; Sp. p. 1393; Gaz. vol. 156; p. 217.
Pressure-burner with compressed mixing-pipe. C. E. Andersson. No. 945,072; Jan. 4; Sp. p. 140; Gaz. vol. 150; p. 23.
Pressure-controller, Automatic. H. R. Dunbar. No. 977,079; Nov. 29; Sp. p. 6634; Gaz. vol. 160; p. 1130.
Pressure device. R. Janney. No. 951,278; Mar. 8; Sp. p. 1653; Gaz. vol. 152; p. 293.
Pressure-equalizer, Play-pipe. P. F. Glazier. No. 968,462; Aug. 23; Sp. p. 5575; Gaz. vol. 157; p. 962.
Pressure-fluid engine. H. H. Mercer. No. 974,413; Nov. 1; Sp. p. 748; Gaz. vol. 160; p. 114.
Pressure-gage. C. J. Manning. No. 957,471; May 10; Sp. p. 2084; Gaz. vol. 154; p. 361.
Pressure-gage. L. J. Watson. No. 962,107; June 21; Sp. p. 3911; Gaz. vol. 155; p. 682.
Pressure-gage alarm. C. D. Hill. No. 960,920; June 7; Sp. p. 1357; Gaz. vol. 155; p. 228.
Pressure gage, Differential-. B. J. P. Roberts. No. 949,598; Feb. 15; Sp. p. 3795; Gaz. vol. 151; p. 661.
Pressure-gage indicator. R. E. Fields. No. 964,634; July 19; Sp. p. 3498; Gaz. vol. 156; p. 598.
Pressure-gage, Recording. E. H. Bristol. No. 966,790; Aug. 9; Sp. p. 2076; Gaz. vol. 157; p. 345.
Pressure-generator. T. Wright. No. 956,465; Apr. 26; Sp. p. 6020; Gaz. vol. 153; p. 1045.
Pressure-governor. G. M. Richards. No. 962,100; June 21; Sp. p. 3883; Gaz. vol. 155; p. 679.
Pressure-recording gage. A. P. Phillips. No. 951,658; Mar. 8; Sp. p. 2430; Gaz. vol. 152; p. 420.
Pressure-reducer. C. G. Armstrong. No. 977,427; Dec. 6; Sp. p. 4; Gaz. vol. 161; p. 3.
Pressure-regulating apparatus. T. G. Mouat. No. 967,812; Aug. 16; Sp. p. 4181; Gaz. vol. 157; p. 716.
Pressure-regulating apparatus. S. G. Neal and J. M. Childress. No. 970,736; Sept. 20; Sp. p. 3420; Gaz. vol. 158; p. 586.
Pressure-regulator. J. Kenlon. No. 946,228; Jan. 11; Sp. p. 2675; Gaz. vol. 150; p. 445.
Pressure-regulator. H. Krüger. No. 953,040; Mar. 29; Sp. p. 5279; Gaz. vol. 152; p. 972.
Pressure-regulator. G. C. Davis and W. A. Daley. No. 959,474; May 31; Sp. p. 6600; Gaz. vol. 154; p. 1126.
Pressure-regulator. J. R. Brown. No. 959,708; May 31; Sp. p. 7088; Gaz. vol. 154; p. 1203.
Pressure-regulator. W. Leuckert. No. 963,376; July 5; Sp. p. 826; Gaz. vol. 156; p. 122.
Pressure-regulator. J. R. Brown. No. 969,519; Sept. 6; Sp. p. 781; Gaz. vol. 158; p. 123.
Pressure-regulator. J. Mandet. No. 977,811; Dec. 6; Sp. p. 854; Gaz. vol. 161; p. 134.
Pressure-regulator. R. C. Nelson. No. 978,925; Dec. 20; Sp. p. 3226; Gaz. vol. 161; p. 573.
Pressure-responsive device. H. P. Thompson. No. 977,486; Dec. 6; Sp. p. 131; Gaz. vol. 161; p. 22.
Pressure to tanks and other appliances, Apparatus for controlling the admission and relief of. A. Priestman and E. C. Moore. No. 979,698; Dec. 27; Sp. p. 4914; Gaz. vol. 161; p. 862.
Price and commodity exhibitor, Changeable. E. F. Dorsey. No. 973,638; Oct. 25; Sp. p. 4684; Gaz. vol. 159; p. 814.
Primary battery. T. W. Byrne. No. 946,009; Jan. 11; Sp. p. 2225; Gaz. vol. 150; p. 369.
Primary battery. W. C. Banks. No. 949,256; Feb. 15; Sp. p. 3086; Gaz. vol. 151; p. 547.

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Primary battery. C. E. Hite. No. 968,154; Aug. 23; Sp. p. 4951; Gaz. vol. 157; p. 855.
Primary battery. E. G. Dodge. No. 969,349; Sept. 6; Sp. p. 421; Gaz. vol. 158; p. 68.
Prime mover. F. J. Miner. No. 979,323; Dec. 20; Sp. p. 4131; Gaz. vol. 161; p. 711.
Priming-cup. W. Osterhom. No. 979,194; Dec. 20; Sp. p. 3865; Gaz. vol. 161; p. 669.
Print and process, Sensitive safety-. H. W. F. Lorenz. No. 967,793; Aug. 16; Sp. p. 4145; Gaz. vol. 157; p. 710.
Print and process. Sensitive safety litho-. H. W. F. Lorenz. No. 967,794; Aug. 16; Sp. p. 4147; Gaz. vol. 157; p. 711.
Print-machine. F. J. Cleaver, Sr. No. 962,128; June 21; Sp. p. 3966; Gaz. vol. 155; p. 689.
Print, Sensitive safety-. H. W. F. Lorenz. No. 969,549; Sept. 6; Sp. p. 857; Gaz. vol. 158; p. 135.
Prints, &c., Making fast-gray. G. Engi. No. 954,273; Apr. 5; Sp. p. 1220; Gaz. vol. 153; p. 204.
Prints, Making multicolor. V. Peterson. No. 962,718; June 28; Sp. p. 5249; Gaz. vol. 155; p. 916.
Printed publication. H. T. Marshall. No. 951,482; Mar. 8; Sp. p. 2085; Gaz. vol. 152; p. 361.
Printer's galley. M. Corrigan. No. 961,684; June 14; Sp. p. 2977; Gaz. vol. 155; p. 515.
Printer's rule in corner, straight-strip, curved, or tubular form. W. C. F. Papke. No. 977,217; Nov. 29; Sp. p. 6938; Gaz. vol. 160; p. 1179.
Printing. E. Bourcart. No. 946,326; Jan. 11; Sp. p. 2892; Gaz. vol. 150; p. 480.
Printing. A. O. Watkins. No. 954,366; Apr. 5; Sp. p. 1420; Gaz. vol. 153; p. 236.
Printing. L. R. Kantner. No. 974,278; Nov. 1; Sp. p. 449; Gaz. vol. 160; p. 66.
Printing address-strips, Machine for. R. W. Goeb. No. 947,303; Jan. 25; Sp. p. 5102; Gaz. vol. 150; p. 862.
Printing and auditing machine, Ticket. J. F. Ohmer. No. 974,511; Nov. 1; Sp. p. 1002; Gaz. vol. 160; p. 149.
Printing and cutting machine. L. G. Buck. No. 956,476; Apr. 26; Sp. p. 6050; Gaz. vol. 153; p. 1049.
Printing and developing apparatus. G. C. Beidler. No. 951,045; Mar. 1; Sp. p. 1184; Gaz. vol. 152; p. 194.
Printing and folding machine. J. A. Boyce. No. 963,203; July 5; Sp. p. 442; Gaz. vol. 156; p. 63.
Printing and folding papers, Apparatus for. J. A. Boyce. No. 974,231; Nov. 1; Sp. p. 279; Gaz. vol. 160; p. 47.
Printing and ruling machine. W. Panter. No. 951,696; Mar. 8; Sp. p. 2487; Gaz. vol. 152; p. 432.
Printing apparatus. W. A. Pringle. No. 974,428; Nov. 1; Sp. p. 790; Gaz. vol. 160; p. 119.
Printing apparatus, Blue-. R. Herman. No. 966,016; Aug. 2; Sp. p. 368; Gaz. vol. 157; p. 59.
Printing apparatus, Curtain-support for blue-. R. Herman. No. 974,965; Nov. 8; Sp. p. 2025; Gaz. vol. 160; p. 332.
Printing, checking, and automatically summing up the values of tickets of different kinds and series, Machine or apparatus for. G. I. F. Soulage. No. 953,493; Mar. 29; Sp. p. 6276; Gaz. vol. 152; p. 1125.
Printing cylinder and plate. M. A. Droitcour. No. 960,005; May 31; Sp. p. 7762; Gaz. vol. 154; p. 1308.
Printing-cylinders, Plate-locking device for. V. Filteau. No. 954,506; Apr. 12; Sp. p. 1731; Gaz. vol. 153; p. 311.
Printing device. W. F. Armstrong. No. 946,313; Jan. 11; Sp. p. 2874; Gaz. vol. 150; p. 476.
Printing device. J. S. Duncan. No. 964,095; July 12; Sp. p. 2358; Gaz. vol. 156; p. 387.
Printing device. R. H. Bremer, O. F. Thiry, and S. Hollands. No. 978,839; Dec. 20; Sp. p. 3045; Gaz. vol. 161; p. 542.
Printing device for meters. P. N. Golden. No. 946,755; Jan. 18; Sp. p. 3894; Gaz. vol. 150; p. 649.
Printing device, Hand. J. I. Sanford. No. 963,184; July 5; Sp. p. 399; Gaz. vol. 156; p. 57.
Printing, folding, or similar paper-treating machines, Stacking mechanism for. R. E. Fischer and M. Wescher. No. 958,798; May 24; Sp. p. 5186; Gaz. vol. 154; p. 874.
Printing-form. H. J. Smith. No. 967,582; Aug. 16; Sp. p. 3730; Gaz. vol. 157; p. 641.
Printing-form for printing advertisements. J. S. Dittmar. No. 954,721; Apr. 12; Sp. p. 2208; Gaz. vol. 153; p. 385.
Printing-frame. G. W. Ray. No. 963,940; July 12; Sp. p. 2021; Gaz. vol. 156; p. 333.
Printing-frame. P. C. Southwick. No. 968,277; Aug. 23; Sp. p. 5217; Gaz. vol. 157; p. 898.
Printing from engraved plates, Machine for. J. A. Mallon. No. 945,281; Jan. 4; Sp. p. 571; Gaz. vol. 150; p. 94.
Printing-machine. A. B. Dick. No. 945,760; Jan. 11; Sp. p. 1674; Gaz. vol. 150; p. 281.
Printing-machine. A. B. Dick. No. 945,761; Jan. 11; Sp. p. 1677; Gaz. vol. 150; p. 281.
Printing-machine. J. A. Boyce. No. 950,015; Feb. 22; Sp. p. 4766; Gaz. vol. 151; p. 840.
Printing-machine. T. R. G. Parker. No. 951,217; Mar. 8; Sp. p. 1517; Gaz. vol. 152; p. 274.
Printing-machine. R. P. Saxton. No. 951,489; Mar. 8; Sp. p. 2098; Gaz. vol. 152; p. 363.
Printing-machine. W. Scott. No. 952,218; Mar. 15; Sp. p. 3538; Gaz. vol. 152; p. 637.
Printing-machine. O. Roesen. No. 952,687; Mar. 22; Sp. p. 4544; Gaz. vol. 152; p. 825.
Printing-machine. E. P. Sheldon. No. 953,063; Mar. 29; Sp. p. 5328; Gaz. vol. 152; p. 981.
Printing-machine. O. Roesen. No. 958,771; May 24; Sp. p. 5111; Gaz. vol. 154; p. 863.
Printing-machine. M. H. Mann. No. 959,773; May 31; Sp. p. 7221; Gaz. vol. 154; p. 1226.
Printing-machine. E. M. Wildey. No. 962,542; June 28; Sp. p. 4866; Gaz. vol. 155; p. 855.
Printing-machine. W. Scott. No. 970,125; Sept. 13; Sp. p. 2099; Gaz. vol. 158; p. 357.
Printing-machine. W. Scott. No. 970,652; Sept. 20; Sp. p. 3238; Gaz. vol. 158; p. 558.
Printing-machine. J. L. Firm. No. 971,533; Oct. 4; Sp. p. 47; Gaz. vol. 159; p. 11.
Printing-machine. J. L. Firm. No. 971,534; Oct. 4; Sp. p. 48; Gaz. vol. 159; p. 11.
Printing-machine. O. L. Raabe. No. 974,429; Nov. 1; Sp. p. 795; Gaz. vol. 160; p. 119.
Printing-machine. G. F. Read. No. 974,431; Nov. 1; Sp. p. 801; Gaz. vol. 160; p. 120.
Printing-machine. H. L. Reckard. No. 974,917; Nov. 8; Sp. p. 1901; Gaz. vol. 160; p. 314.
Printing-machine. E. A. Ovenshire. No. 977,830; Dec. 6; Sp. p. 892; Gaz. vol. 161; p. 140.
Printing-machine bed-motion. H. Pearce. No. 952,628; Mar. 22; Sp. p. 4417; Gaz. vol. 152; p. 805.
Printing machine, Blue-. N. H. Brown. No. 962,741; June 28; Sp. p. 5290; Gaz. vol. 155; p. 924.
Printing machine, Blue-. C. F. Pease. No. 972,909; Oct. 18; Sp. p. 3080; Gaz. vol. 159; p. 541.
Printing machine, Card-. M. H. Mann. No. 957,229; May 10; Sp. p. 1584; Gaz. vol. 154; p. 280.
Printing machine, Card-. M. H. Mann. No. 972,554; Oct. 11; Sp. p. 2261; Gaz. vol. 159; p. 390.
Printing-machine guide. M. H. Mann. No. 972,555; Oct. 11; Sp. p. 2263; Gaz. vol. 159; p. 391.
Printing-machine ink-feeding mechanism. J. J. Halliwell. No. 967,906; Aug. 23; Sp. p. 4377; Gaz. vol. 157; p. 772.
Printing-machine inking and inking-off mechanism, Rotary-. P. O. Laffitte. No. 973,520; Oct. 25; Sp. p. 4423; Gaz. vol. 159; p. 773.
Printing-machine inking apparatus. S. Hollingsworth. No. 966,094; Aug. 2; Sp. p. 532; Gaz. vol. 157; p. 86.
Printing-machine inking device. W. J. Main. No. 971,765; Oct. 4; Sp. p. 535; Gaz. vol. 159; p. 94.
Printing-machine inking device. O. Oehring. No. 977,675; Dec. 6; Sp. p. 574; Gaz. vol. 161; p. 88.
Printing-machine inking mechanism. W. Spalckhaver. No. 965,244; July 26; Sp. p. 4834; Gaz. vol. 156; p. 836.
Printing-machine keyboard mechanism. E. A. Adcock. No. 966,978; Aug. 9; Sp. p. 2465; Gaz. vol. 157; p. 406.
Printing-machine line unit-case. W. A. Sorg. No. 979,586; Dec. 27; Sp. p. 4689; Gaz. vol. 161; p. 823.
Printing-machine, Multicouple multirevolution. W. Scott. No. 975,294; Nov. 8; Sp. p. 2736; Gaz. vol. 160; p. 443.
Printing machine, Plate-. R. H. Kirk. No. 956,807; May 3; Sp. p. 658; Gaz. vol. 154; p. 105.
Printing-machine, Rotary. A. B. Evans and G. C. H. Wichmann. No. 958,484; May 17; Sp. p. 4534; Gaz. vol. 154; p. 742.
Printing-machine, Rotary. F. Waite. No. 970,000; Sept. 13; Sp. p. 1855; Gaz. vol. 158; p. 316.
Printing-machine sheet-feeding device. G. Kleim. (Reissue.) No. 13,082; Feb. 15; Sp. p. 4106; Gaz. vol. 151; p. 711.
Printing machine, Stencil-. C. S. Tanner. No. 952,589; Mar. 22; Sp. p. 4320; Gaz. vol. 152; p. 791.
Printing machine, Tapestry-. G. W. Stokes. No. 953,931; Apr. 5; Sp. p. 490; Gaz. vol. 153; p. 89.
Printing machine, Ticket-. A. Stenhouse and G. Eastham. No. 948,079; Feb. 1; Sp. p. 627; Gaz. vol. 151; p. 102.
Printing machine, Ticket-. T. M. Vaughan. No. 970,768; Sept. 20; Sp. p. 3498; Gaz. vol. 158; p. 599.
Printing machines, Device for cleaning the water-tight blankets of cloth-. F. X. Muller-Fichter. No. 965,117; July 19; Sp. p. 4575; Gaz. vol. 156; p. 763.
Printing-machines, Folding delivery mechanism for. W. Spalckhaver. No. 968,709; Aug. 30; Sp. p. 6152; Gaz. vol. 157; p. 1074.
Printing machinery, Blue-. M. Goldstein. No. 976,164; Nov. 22; Sp. p. 4563; Gaz. vol. 160; p. 789.
Printing mechanism. W. A. Pringle. No. 946,808; Jan. 18; Sp. p. 4028; Gaz. vol. 150; p. 668.
Printing mechanism. E. W. Dean. No. 965,502; July 26; Sp. p. 5399; Gaz. vol. 156; p. 924.
Printing mechanism, Box-. H. A. Stillwell. No. 978,409; Dec. 13; Sp. p. 2145; Gaz. vol. 161; p. 373.
Printing mechanism, Selvage-. C. R. Thomson. No. 960,439; June 7; Sp. p. 400; Gaz. vol. 155; p. 67.
Printing moving-picture films. F. L. Dyer and D. Holden. No. 970,199; Sept. 13; Sp. p. 2263; Gaz. vol. 158; p. 383.
Printing on rubber footwear, Machine for. J. W. Moore. No. 962,515; June 28; Sp. p. 4801; Gaz. vol. 155; p. 846.
Printing or embossing cylinders, Machine for grinding. C. H. Hope. No. 959,140; May 24; Sp. p. 5912; Gaz. vol. 154; p. 990.

Printing or other machines, Machine for feeding bags to. L. J. Elsas. No. 976,255; Nov. 22; Sp. p. 4812; Gaz. vol. 160; p. 822.
Printing-paste. J. Deinet. No. 978,138; Dec. 13; Sp. p. 1572; Gaz. vol. 161; p. 279.
Printing-paste. J. Deinet. No. 978,139; Dec. 13; Sp. p. 1572; Gaz. vol. 161; p. 279.
Printing-plate. J. S. Duncan. No. 950,747; Mar. 1; Sp. p. 620; Gaz. vol. 152; p. 99.
Printing-plate. J. S. Duncan. No. 950,748; Mar. 1; Sp. p. 622; Gaz. vol. 152; p. 99.
Printing-plate. J. S. Duncan. No. 959,725; May 31; Sp. p. 7124; Gaz. vol. 154; p. 1209.
Printing-plate and means for securing the same, Flexible. M. A. Droitcour. No. 960,218; May 31; Sp. p. 8196; Gaz. vol. 154; p. 1380.
Printing-plate and producing same. G. R. Cornwall. No. 951,103; Mar. 8; Sp. p. 1301; Gaz. vol. 152; p. 238.
Printing-plate-casting mechanism, Stereotype-. H. A. W. Wood. No. 977,248; Nov. 29; Sp. p. 6998; Gaz. vol. 160; p. 1190.
Printing-plate, Flexible. M. A. Droitcour. No. 960,219; May 31; Sp. p. 8199; Gaz. vol. 154; p. 1380.
Printing-plate-locking device. C. A. McCain and C. Henderson. No. 964,174; July 12; Sp. p. 2507; Gaz. vol. 156; p. 412.
Printing-plates, Apparatus for producing depressions in metal. M. Wachsmundt, A. Kurz, and C. Jacobi. No. 947,264; Jan. 25; Sp. p. 4987; Gaz. vol. 150; p. 847.
Printing-plates in grain manner, Preparing. H. S. Aufermann. No. 954,412; Apr. 12; Sp. p. 1519; Gaz. vol. 153; p. 279.
Printing-plates, Machine for making. J. S. Duncan. No. 955,116; Apr. 12; Sp. p. 3049; Gaz. vol. 153; p. 518.
Printing-plates, Making. M. A. Droitcour. No. 952,312; Mar. 15; Sp. p. 3734; Gaz. vol. 152; p. 668.
Printing plates, Making cut-. H. L. Bell, Sr. No. 951,521; Mar. 8; Sp. p. 2153; Gaz. vol. 152; p. 374.
Printing-plates, Press for stamping raised characters on. H. Pautze. No. 946,824; Jan. 18; Sp. p. 4059; Gaz. vol. 150; p. 673.
Printing-plates, Producing. E. Bassist. No. 957,596; May 10; Sp. p. 2323; Gaz. vol. 154; p. 404.
Printing-plates, Producing. E. Albert. No. 967,875; Aug. 23; Sp. p. 4313; Gaz. vol. 157; p. 761.
Printing plates, Producing letterpress planographic-. A. L. Saltzman. No. 979,890; Dec. 27; Sp. p. 5357; Gaz. vol. 161; p. 926.
Printing-press. W. H. Sheppard. No. 946,882; Jan. 18; Sp. p. 4213; Gaz. vol. 150; p. 694.
Printing-press. E. B. Robinson. No. 952,583; Mar. 22; Sp. p. 4309; Gaz. vol. 152; p. 789.
Printing-press. S. Crump. No. 954,379; Apr. 5; Sp. p. 1442; Gaz. vol. 153; p. 240.
Printing-press. H. R. Moore. No. 954,683; Apr. 12; Sp. p. 2120; Gaz. vol. 153; p. 372.
Printing-press. A. P. Harland. No. 956,084; Apr. 26; Sp. p. 5193; Gaz. vol. 153; p. 914.
Printing-press. J. Thomson. No. 957,917; May 17; Sp. p. 3027; Gaz. vol. 154; p. 543.
Printing-press. F. Meisel. No. 958,268; May 17; Sp. p. 3950; Gaz. vol. 154; p. 665.
Printing-press. F. Meisel. No. 958,662; May 17; Sp. p. 4876; Gaz. vol. 154; p. 800.
Printing-press. W. Evensen. No. 960,865; June 7; Sp. p. 1261; Gaz. vol. 155; p. 211.
Printing-press. E. Pickering. No. 961,256; June 14; Sp. p. 2057; Gaz. vol. 155; p. 370.
Printing-press. T. Winlack. No. 961,567; June 14; Sp. p. 2750; Gaz. vol. 155; p. 476.
Printing-press. W. H. Smith. No. 966,256; Aug. 2; Sp. p. 882; Gaz. vol. 157; p. 140.
Printing-press. H. F. Bechman. No. 969,514; Sept. 6; Sp. p. 767; Gaz. vol. 158; p. 121.
Printing-press. L. A. Wheat. No. 970,671; Sept. 20; Sp. p. 3279; Gaz. vol. 158; p. 564.
Printing-press. H. J. Smith. No. 975,730; Nov. 15; Sp. p. 3664; Gaz. vol. 160; p. 618.
Printing-press. M. R. Land. No. 975,963; Nov. 15; Sp. p. 4131; Gaz. vol. 160; p. 698.
Printing-press. S. Crump. No. 976,155; Nov. 22; Sp. p. 4545; Gaz. vol. 160; p. 786.
Printing-press. G. E. Pancoast. No. 979,791; Dec. 27; Sp. p. 5135; Gaz. vol. 161; p. 893.
Printing-press attachment. H. E. Shedd. No. 947,721; Jan. 25; Sp. p. 6019; Gaz. vol. 150; p. 1002.
Printing-press attachment. W. J. Daningburg. No. 978,704; Dec. 13; Sp. p. 2785; Gaz. vol. 161; p. 474.
Printing-press, Bed-and-cylinder. A. T. H. Brower. No. 961,206; June 14; Sp. p. 1955; Gaz. vol. 155; p. 354.
Printing press, Continuous. B. von Philp. No. 955,196; Apr. 19; Sp. p. 3230; Gaz. vol. 153; p. 579.
Printing-press, Cylinder. J. H. Barr. No. 956,751; May 3; Sp. p. 532; Gaz. vol. 154; p. 86.
Printing-press delivery-board. M. A. Droitcour. No. 952,423; Mar. 15; Sp. p. 3944; Gaz. vol. 152; p. 706.
Printing-press feed-gage. E. L. Megill. No. 946,803; Jan. 18; Sp. p. 4020; Gaz. vol. 150; p. 666.
Printing-press feed mechanism. J. A. Kacha. No. 946,049; Jan. 11; Sp. p. 2308; Gaz. vol. 150; p. 383.
Printing-press feed mechanism. J. A. Kacha. No. 953,840; Apr. 5; Sp. p. 315; Gaz. vol. 153; p. 56.
Printing-press feeder. E. G. Brewer and C. A. Cheshire. No. 971,245; Sept. 27; Sp. p. 4492; Gaz. vol. 158; p. 786.
Printing-press feeding mechanism. C. M. Kneppler. No. 953,273; Mar. 29; Sp. p. 5796; Gaz. vol. 152; p. 1049.
Printing-press, Flat-bed. W. S. Huson. No. 950,136; Feb. 22; Sp. p. 5001; Gaz. vol. 151; p. 879.
Printing-press for printing from intaglio half-tone printing-plates. H. A. W. Wood. No. 952,060; Mar. 15; Sp. p. 3245; Gaz. vol. 152; p. 584.
Printing-press form-support. G. E. Pancoast. No. 972,906; Oct. 18; Sp. p. 3064; Gaz. vol. 159; p. 540.
Printing-press gripper. J. W. Williams. No. 947,365; Jan. 25; Sp. p. 5254; Gaz. vol. 150; p. 885.
Printing-press guard, Gordon-. A. Launder. No. 978,042; Dec. 6; Sp. p. 1337; Gaz. vol. 161; p. 214.
Printing-press ink-fountain. R. J. Greenway. No. 975,856; Nov. 15; Sp. p. 3923; Gaz. vol. 160; p. 661.
Printing-press ink-roll-cleaning mechanism. C. J. Robertson. No. 968,806; Aug. 30; Sp. p. 6346; Gaz. vol. 157; p. 1106.
Printing-press ink-supplying means. A. P. Harland. No. 956,083; Apr. 26; Sp. p. 5188; Gaz. vol. 153; p. 914.
Printing-press inking apparatus. M. A. Droitcour. No. 956,316; Apr. 26; Sp. p. 5713; Gaz. vol. 153; p. 994.
Printing-press inking apparatus. F. P. Sharp. No. 978,495; Dec. 13; Sp. p. 2330; Gaz. vol. 161; p. 402.
Printing-press inking device. D. W. Custer. No. 977,170; Nov. 29; Sp. p. 6846; Gaz. vol. 160; p. 1162.
Printing-press inking mechanism. S. G. Goss. No. 954,088; Apr. 5; Sp. p. 819; Gaz. vol. 153; p. 142.
Printing-press inking mechanism. M. A. Droitcour. No. 955,833; Apr. 19; Sp. p. 4615; Gaz. vol. 153; p. 797.
Printing-press inking mechanism. M. A. Droitcour. No. 960,004; May 31; Sp. p. 7760; Gaz. vol. 154; p. 1307.
Printing press, Job-. J. C. Trimbach and C. G. Allhoff. No. 961,562; June 14; Sp. p. 2740; Gaz. vol. 155; p. 475.
Printing-press paper-roll-braking mechanism. S. G. Goss. No. 954,089; Apr. 5; Sp. p. 823; Gaz. vol. 153; p. 143.
Printing-press plate-clamping mechanism S. G. Goss. No. 954,090; Apr. 5; Sp. p. 829; Gaz. vol. 153; p. 143.
Printing-press plate-clamping mechanism. S. G. Goss. No. 954,091; Apr. 5; Sp. p. 833; Gaz. vol. 153; p. 143.
Printing-press plate-holder. K. M. and F. Schlueter. No. 979,035; Dec. 20; Sp. p. 3495; Gaz. vol. 161; p. 612.
Printing-press ribbon-holder. E. Kirkbride. No. 953,423; Mar. 29; Sp. p. 6127; Gaz. vol. 152; p. 1100.
Printing-press rolls, Stand for holding. E. J. Hampton. No. 970,046; Sept. 13; Sp. p. 1956; Gaz. vol. 158; p. 332.
Printing-press roller-bearing. H. O. Atwood. No. 973,098; Oct. 18; Sp. p. 3500; Gaz. vol. 159; p. 604.
Printing-press self-feeder. L. Sgal and J. Schwanda. No. 962,866; June 28; Sp. p. 5539; Gaz. vol. 155; p. 969.
Printing-press sheet-delivering mechanism. W. H. Stratton. No. 976,410; Nov. 22; Sp. p. 5160; Gaz. vol. 160; p. 876.
Printing-press sheet-delivery mechanism. M. A. Droitcour. No. 960,007; May 31; Sp. p. 7775; Gaz. vol. 154; p. 1309.
Printing-press sheet-delivery mechanism. C. Henderson. No. 974,062; Oct. 25; Sp. p. 5544; Gaz. vol. 159; p. 961.
Printing-press, Single-plate rotary. H. F. Bechman. No. 979,919; Dec. 27; Sp. p. 5416; Gaz. vol. 161; p. 936.
Printing-press tympan mechanism. M. A. Droitcour. No. 966,533; Aug. 9; Sp. p. 1505; Gaz. vol. 157; p. 258.
Printing press, Web-. F. M. Turck. No. 948,261; Feb. 1; Sp. p. 980; Gaz. vol. 151; p. 161.
Printing-presses, Apparatus for moving paper-rolls for. L. F. Pfister. No. 964,546; July 19; Sp. p. 3307; Gaz. vol. 156; p. 567.
Printing-presses, Automatic feeder for platen. H. Honigmann. No. 970,822; Sept. 20; Sp. p. 3626; Gaz. vol. 158; p. 619.
Printing-presses, Control attachment for fountains of platen. H. E. Saunders and R. D. Croft. No. 970,355; Sept. 13; Sp. p. 2578; Gaz. vol. 158; p. 435.
Printing-presses, Cutting-stick for. S. Kaufman. No. 954,679; Apr. 12; Sp. p. 2113; Gaz. vol. 153; p. 370.
Printing-presses, Cylinder-driving mechanism for. R. T. Johnston. No. 962,962; June 28; Sp. p. 5703; Gaz. vol. 155; p. 999.
Printing-presses, Feeding-gage for platen. B. Silfa. No. 953,718; Apr. 5; Sp. p. 67; Gaz. vol. 153; p. 15.
Printing-presses, Gage and work-dropping device for platen. A. J. Hood. No. 976,366; Nov. 22; Sp. p. 5057; Gaz. vol. 160; p. 859.
Printing-presses, Gage-pin for tympans of. J. R. Grove. No. 960,312; June 7; Sp. p. 144; Gaz. vol. 155; p. 27.
Printing-presses, Means for supplying and feeding paper to. L. F. Pfister. No. 964,547; July 19; Sp. p. 3311; Gaz. vol. 156; p. 567.
Printing-presses, Paper-stripping device for. H. C. Gammeter. No. 970,441; Sept. 13; Sp. p. 2749; Gaz. vol. 158; p. 463.
Printing-presses, Ribbon-cutting attachment for. A. Livernoch. No. 948,632; Feb. 8; Sp. p. 1808; Gaz. vol. 151; p. 311.

Alphabetical list of inventions—Continued.

Printing-presses, Throw-off mechanism for. M. A. Droitcour. No. 956,315; Apr. 26; Sp. p. 5707; Gaz. vol. 153; p. 994.
Printing process. F. Krokert. No. 958,879; May 24; Sp. p. 5383; Gaz. vol. 154; p. 903.
Printing purposes, Cliche and other surface for. M. Sandmann. No. 955,912; Apr. 26; Sp. p. 4823; Gaz. vol. 153; p. 853.
Printing-roll for linoleum and oil-cloth. F. A. Vieser. No. 978,080; Dec. 6; Sp. p. 1413; Gaz. vol. 161; p. 228.
Printing-rollers, Making engraved. J. W. Ippers. No. 971,009; Sept. 20; Sp. p. 3964; Gaz. vol. 158; p. 678.
Printing-rollers, Manufacturing. C. Jaek. No. 970,830; Sept. 20; Sp. p. 3644; Gaz. vol. 158; p. 622.
Printing-rule and system of applying same to printing-forms. A. G. Stevenson. No. 974,718; Nov. 1; Sp. p. 1451; Gaz. vol. 160; p. 224.
Printing-surface and producing the same. B. F. Upham. No. 979,111; Dec. 20; Sp. p. 3687; Gaz. vol. 161; p. 639.
Printing-surfaces, Preparation of. B. A. Brooks. No. 964,205; July 12; Sp. p. 2562; Gaz. vol. 156; p. 422.
Printing warps, Machine for. A. C. Schoen. No. 954,890; Apr. 12; Sp. p. 2623; Gaz. vol. 153; p. 446.
Printing-wheel. I. S. Dement. No. 956,891; May 3; Sp. p. 854; Gaz. vol. 154; p. 135.
Printing wood-graining and the like, Apparatus for. J. E. Current and W. J. Wesley. No. 950,277; Feb. 22; Sp. p. 5305; Gaz. vol. 151; p. 930.
Prison, Portable. J. B. Kimbell. No. 954,305; Apr. 5; Sp. p. 1299; Gaz. vol. 153; p. 215.
Profiling-machine. M. F. Smith. No. 956,209; Apr. 26; Sp. p. 5473; Gaz. vol. 153; p. 957.
Projectile. F. Ziegenfuss. No. 945,544; Jan. 4; Sp. p. 1159; Gaz. vol. 150; p. 179.
Projectile. H. Wesson. No. 959,037; May 24; Sp. p. 5689; Gaz. vol. 154; p. 956.
Projectile. G. E. Wells. No. 962,482; June 28; Sp. p. 4736; Gaz. vol. 155; p. 835.
Projectile. C. V. Wheeler and A. G. McKenna. No. 963,489; July 5; Sp. p. 1051; Gaz. vol. 156; p. 160.
Projectile. E. Gathmann. (Reissue.) No. 13,132; July 12; Sp. p. 3119; Gaz. vol. 156; p. 514.
Projectile. H. Brust. No. 965,278; July 26; Sp. p. 4909; Gaz. vol. 156; 847.
Projectile. H. H. Hendrix. No. 966,744; Aug. 9; Sp. p. 1968; Gaz. vol. 157; p. 330.
Projectile. D. I. Selfridge. No. 973,983; Oct. 25; Sp. p. 5384; Gaz. vol. 159; p. 935.
Projectile. J. F. O'Byrne and T. A. Flood. No. 979,993; Dec. 27; Sp. p. 5555; Gaz. vol. 161; p. 960.
Projectile, Aerial. R. Lehmann. No. 948,177; Feb. 1; Sp. p. 805; Gaz. vol. 151; p. 134.
Projectile, Capped armor-piercing. C. V. Wheeler and A. G. McKenna. No. 950,586; Mar. 1; Sp. p. 255; Gaz. vol. 152; p. 42.
Projectile, Double-walled exploding. M. Glass. No. 965,812; July 26; Sp. p. 6086; Gaz. vol. 156; p. 1032.
Projectile for ordnance. E. Schneider. No. 979,575; Dec. 27; Sp. p. 4667; Gaz. vol. 161; p. 819.
Projectile, Self-propelling. W. T. Unge. No. 961,179; June 14; Sp. p. 1895; Gaz. vol. 155; p. 344.
Projectiles, Cap for armor-piercing. C. V. Wheeler and A. G. McKenna. No. 968,012; Aug. 23; Sp. p. 4617; Gaz. vol. 157; p. 807.
Projectiles, Contour-cap for. C. Davis. No. 945,492; Jan. 4; Sp. p. 1058; Gaz. vol. 150; p. 163.
Projectiles, Filling for exploding. M. Glass. No. 969,102; Aug. 30; Sp. p. 6932; Gaz. vol. 157; p. 1207.
Projectiles, Manufacture of hardened-steel. C. Davis. No. 970,428; Sept. 13; Sp. p. 2718; Gaz. vol. 158; p. 459.
Projecting apparatus. F. F. Fiallo and F. A. Rojas. No. 954,947; Apr. 12; Sp. p. 2741; Gaz. vol. 153; p. 464.
Projecting device. W. H. Munshaw. No. 948,565; Feb. 8; Sp. p. 1660; Gaz. vol. 151; p. 289.
Projection apparatus. C. Dupuis. No. 957,502; May 10; Sp. p. 2151; Gaz. vol. 154; p. 372.
Projection apparatus. W. L. Patterson. No. 957,899; May 17; Sp. p. 2970; Gaz. vol. 154; p. 537.
Projection apparatus. W. L. Patterson. No. 961,253; June 14; Sp. p. 2048; Gaz. vol. 155; p. 369.
Projection apparatus. A. H. F. Perl. No. 962,664; June 28; Sp. p. 5127; Gaz. vol. 155; p. 896.
Proof-press. W. G. Potter. No. 957,373; May 10; Sp. p. 1893; Gaz. vol. 154; p. 329.
Proof-press. G. L. Drummond. No. 968,747; Aug. 30; Sp. p. 6226; Gaz. vol. 157; p. 1088.
Propeller. F. C. Gordon. No. 945,123; Jan. 4; Sp. p. 236; Gaz. vol. 150; p. 41.
Propeller. S. Yeager. No. 945,663; Jan. 4; Sp. p. 1406; Gaz. vol. 150; p. 219.
Propeller. J. C. Boyd. No. 950,990; Mar. 1; Sp. p. 1096; Gaz. vol. 152; p. 176.
Propeller. H. F. Shaw. No. 954,053; Apr. 5; Sp. p. 740; Gaz. vol. 153; p. 130.
Propeller. A. von Parseval. No. 954,992; Apr. 12; Sp. p. 2828; Gaz. vol. 153; p. 480.
Propeller. W. D. Haynes. No. 957,056; May 3; Sp. p. 1197; Gaz. vol. 154; p. 190.
Propeller. G. Gays. No. 958,108; May 17; Sp. p. 3625; Gaz. vol. 154; p. 611.
Propeller. M. Cooksey. No. 958,599; May 17; Sp. p. 4757; Gaz. vol. 154; p. 781.
Propeller. E. A. Richter. No. 960,403; June 7; Sp. p. 338; Gaz. vol. 155; p. 56.
Propeller. E. E. Furney. No. 962,136; June 21; Sp. p. 3980; Gaz. vol. 155; p. 692.
Propeller. G. E. Goodsir. No. 964,155; July 12; Sp. p. 2476; Gaz. vol. 156; p. 406.
Propeller. T. A. Hickman. No. 965,457; July 26; Sp. p. 5315; Gaz. vol. 156; p. 908.
Propeller. J. Turner. No. 966,491; Aug. 9; Sp. p. 1381; Gaz. vol. 157; p. 243.
Propeller. L. R. Fulda. No. 970,319; Sept. 13; Sp. p. 2514; Gaz. vol. 158; p. 424.
Propeller. T. Roggenbuck. No. 971,409; Sept. 27; Sp. p. 4789; Gaz. vol. 158; p. 838.
Propeller. G. B. Martin. No. 975,972; Nov. 15; Sp. p. 4149; Gaz. vol. 160; p. 701.
Propeller. W. B. and G. C. Maxwell and E. Buckman. No. 977,815; Dec. 6; Sp. p. 862; Gaz. vol. 161; p. 135.
Propeller. I. A. Hortman. No. 979,672; Dec. 27; Sp. p. 4864; Gaz. vol. 161; p. 853.
Propeller and boat construction. W. L. Casaday. No. 965,870; Aug. 2; Sp. p. 46; Gaz. vol. 157; p. 10.
Propeller-blade machine. F. W. Bull. No. 963,858; July 12; Sp. p. 1872; Gaz. vol. 156; p. 306.
Propeller, Feathering-blade. C. W. Van Winkle. No. 955,023; Apr. 12; Sp. p. 2900; Gaz. vol. 153; p. 490.
Propeller for boats, Reversible. P. W. Hodgkinson. No. 975,039; Nov. 8; Sp. p. 2186; Gaz. vol. 160; p. 356.
Propeller for maritime and river navigation. B. Icre. No. 976,178; Nov. 22; Sp. p. 4612; Gaz. vol. 160; p. 794.
Propeller for operating on fluids. B. G. Cooper. No. 977,068; Nov. 29; Sp. p. 6608; Gaz. vol. 160; p. 1126.
Propeller-guard. J. L. Hawthorne. No. 951,608; Mar. 8; Sp. p. 2316; Gaz. vol. 152; p. 402.
Propeller, Reversible. H. Pawlik. No. 954,539; Apr. 12; Sp. p. 1799; Gaz. vol. 153; p. 323.
Propeller, Reversible. E. S. Bryant. No. 961,285; June 14; Sp. p. 2132; Gaz. vol. 155; p. 382.
Propeller, Screw-. J. Howden. No. 945,237; Jan. 4; Sp. p. 484; Gaz. vol. 150; p. 79.
Propeller, Screw-. P. Kovács. No. 945,553; Jan. 4; Sp. p. 1186; Gaz. vol. 150; p. 183.
Propeller, Screw-. R. Tjader. No. 955,721; Apr. 19; Sp. p. 4398; Gaz. vol. 153; p. 758.
Propeller, Screw-. C. Coma. No. 966,654; Aug. 9; Sp. p. 1750; Gaz. vol. 157; p. 298.
Propeller, Screw-. D. W. Taylor. No. 978,677; Dec. 13; Sp. p. 2732; Gaz. vol. 161; p. 465.
Propeller-shaft hanger and bearing. J. W. Walters. No. 947,265; Jan. 25; Sp. p. 4989; Gaz. vol. 150; p. 847.
Propeller-shafts, Means for mounting. A. Clément. No. 954,077; Apr. 5; Sp. p. 792; Gaz. vol. 153; p. 138.
Propeller, Ship's. S. Labryszewski. No. 959,761; May 31; Sp. p. 7199; Gaz. vol. 154; p. 1222.
Propeller, Vibrating. B. H. Coffey. No. 972,337; Oct. 11; Sp. p. 1782; Gaz. vol. 159; p. 313.
Propeller-wheel. C. T. Woodburn. No. 950,981; Mar. 1; Sp. p. 1080; Gaz. vol. 152; p. 173.
Propeller-wheel. A. E. Seltzer. No. 955,291; Apr. 19; Sp. p. 3437; Gaz. vol. 153; p. 611.
Propeller-wheel. J. Bennett. No. 974,344; Nov. 1; Sp. p. 609; Gaz. vol. 160; p. 91.
Propeller-wheel, Adjustable-paddle. J. H. B. Miller. No. 964,293; July 12; Sp. p. 2749; Gaz. vol. 156; p. 454.
Propellers, &c., Blade-feathering mechanism for. H. Hückel. No. 974,490; Nov. 1; Sp. p. 958; Gaz. vol. 160; p. 142.
Propellers, Gearing for. W. A. Hall. No. 974,961; Nov. 8; Sp. p. 2018; Gaz. vol. 160; p. 330.
Propelling and driving mechanism. J. Cervelli. No. 970,607; Sept. 20; Sp. p. 3116; Gaz. vol. 158; p. 543.
Propelling boats, Means for. S. Giovannini. No. 957,550; May 10; Sp. p. 2248; Gaz. vol. 154; p. 389.
Propelling device. E. E. Lindkvist. No. 962,155; June 21; Sp. p. 4029; Gaz. vol. 155; p. 699.
Propelling device. C. Krohn. No. 965,912; Aug. 2; Sp. p. 137; Gaz. vol. 157; p. 23.
Propelling device. G. Westinghouse. No. 968,823; Aug. 30; Sp. p. 6374; Gaz. vol. 157; p. 1112.
Propelling device, Ship-. C. C. R. de Carvalho. No. 945,263; Jan. 4; Sp. p. 536; Gaz. vol. 150; p. 88.
Propelling means, Boat-. W. Cutler. No. 954,718; Apr. 12; Sp. p. 2203; Gaz. vol. 153; p. 384.
Propelling means for vessels. J. Sinčić. No. 958,020; May 17; Sp. p. 3333; Gaz. vol. 154; p. 580.
Propelling mechanism, Boat-. W. L. Cramer. No. 977,169; Nov. 29; Sp. p. 6845; Gaz. vol. 160; p. 1162.
Propelling mechanism, Detachable. J. F. Lesko. No. 947,643; Jan. 25; Sp. p. 5887; Gaz. vol. 150; p. 977.
Propelling mechanism, Marine. T. Moriarty. No. 965,532; July 26; Sp. p. 5490; Gaz. vol. 156; p. 935.
Propelling mechanism, Reaction. W. Solomon. No. 971,699; Oct. 4; Sp. p. 395; Gaz. vol. 159; p. 69.
Propelling system, Electromagnetic. R. Dean. No. 964,498; July 19; Sp. p. 3186; Gaz. vol. 156; p. 552.
Propelling vessels by hydraulic pressure. Apparatus for. H. A. Duc, Jr. No. 958,996; May 24; Sp. p. 5610; Gaz. vol. 154; p. 942.

Propelling water-craft, Means for. C. J. Low. No. 945,104; Jan. 4; Sp. p. 203; Gaz. vol. 150; p. 34.
Propulsion apparatus, Ship's. C. R. Mayhall. No. 961,306; June 14; Sp. p. 2176; Gaz. vol. 155; p. 389.
Propulsion by steam-turbines, Marine. M. Roellig. No. 972,926; Oct. 18; Sp. p. 3127; Gaz. vol. 159; p. 547.
Propulsion of vessels. F. W. Schroeder. No. 955,214; Apr. 19; Sp. p. 3280; Gaz. vol. 153; p. 587.
Propulsion of vessels, Means for the. R. P. Nielsen. No. 957,622; May 10; Sp. p. 2385; Gaz. vol. 154; p. 413.
Propulsion, Plural drive mechanism for marine. L. Dion. No. 976,642; Nov. 22; Sp. p. 5649; Gaz. vol. 160; p. 955.
Protecting pad or shield. W. H. McCormack. No. 961,309; June 14; Sp. p. 2181; Gaz. vol. 155; p. 390.
Protective device. R. H. Manson. No. 957,977; May 17; Sp. p. 3208; Gaz. vol. 154; p. 565.
Protective device. J. D. Hoffman. No. 961,962; June 21; Sp. p. 3594; Gaz. vol. 155; p. 632.
Protective screen for apparatus which are exposed to high temperatures. G. Egly. No. 971,124; Sept. 27; Sp. p. 4218; Gaz. vol. 158; p. 745.
Protector. A. C. Alexander. No. 951,930; Mar. 15; Sp. p. 2997; Gaz. vol. 152; p. 543.
Protector, Portable. C. Carter. No. 947,675; Jan. 25; Sp. p. 5939; Gaz. vol. 150; p. 988.
Proteo-cellulosic products, Obtaining. H. L. J. Chavassieu. No. 950,435; Feb. 22; Sp. p. 5594; Gaz. vol. 151; p. 981.
Protractor. J. E. Smith. No. 977,048; Nov. 29; Sp. p. 6564; Gaz. vol. 160; p. 1120.
Pruning device. C. H. Meyer. No. 952,750; Mar. 22; Sp. p. 4682; Gaz. vol. 152; p. 846.
Pruning-gage. F. P. Meeks. No. 975,057; Nov. 8; Sp. p. 2225; Gaz. vol. 160; p. 362.
Pruning implement. A. H. Bastian. No. 945,677; Jan. 4; Sp. p. 1432; Gaz. vol. 150; p. 223.
Pruning implement. C. I. Libby. No. 948,231; Feb. 1; Sp. p. 923; Gaz. vol. 151; p. 151.
Pruning implement. I. D. Guest. No. 960,540; June 7; Sp. p. 623; Gaz. vol. 155; p. 100.
Pruning implement. J. Swegles. No. 973,582; Oct. 25; Sp. p. 4552; Gaz. vol. 159; p. 794.
Pruning implement. J. B. Howard. No. 974,149; Nov. 1; Sp. p. 83; Gaz. vol. 160; p. 17.
Pruning implement. J. A. Allen. No. 978,102; Dec. 6; Sp. p. 1462; Gaz. vol. 161; p. 236.
Pruning-knife. F. A. Frumviller. No. 978,574; Dec. 13; Sp. p. 2520; Gaz. vol. 161; p. 430.
Pruning-shears. J. G. Kyle. No. 960,963; June 7; Sp. p. 1445; Gaz. vol. 155; p. 243.
Pruning-shears. S. C. Taylor. No. 973,996; Oct. 25; Sp. p. 5422; Gaz. vol. 159; p. 940.
Puff-box. W. G. Burns. No. 978,843; Dec. 20; Sp. p. 3052; Gaz. vol. 161; p. 543.
Pug-mill and stone-separator. C. W. Kilborn. No. 970,240; Sept. 13; Sp. p. 2356; Gaz. vol. 158; p. 397.
Pull-out bracket. F. Herkert, Jr. No. 979,949; Dec. 27; Sp. p. 5473; Gaz. vol. 161; p. 946.
Pull-sleeve, pipe or cable support or connector, Combination. J. Fountain, Jr. No. 954,081; Apr. 5; Sp. p. 800; Gaz. vol. 153; p. 139.
Pull-socket. G. W. Goodridge. No. 957,768; May 10; Sp. p. 2688; Gaz. vol. 154; p. 462.
Pull-socket. F. W. Slady. No. 958,554; May 17; Sp. p. 4664; Gaz. vol. 154; p. 766.
Pull-socket. H. T. Paiste. No. 965,734; July 26; Sp. p. 5909; Gaz. vol. 156; p. 1005.
Pull-socket. T. H. Brady. No. 973,747; Oct. 25; Sp. p. 4895; Gaz. vol. 159; p. 851.
Pull-socket. R. A. Schoenberg. No. 973,982; Oct. 25; Sp. p. 5377; Gaz. vol. 159; p. 934.
Puller: *See* Animal-jaw puller; Bush-puller; Drift-bolt puller; Fastener-puller; Nail or spike puller; Pipe-puller; Root-puller; Spike-puller; Stalk-puller; Stone-puller; Stump-puller; Tie-puller.
Pulley. H. J. Gilbert. No. 955,864; Apr. 26; Sp. p. 4709; Gaz. vol. 153; p. 836.
Pulley. W. H. F. Raifsnyder. No. 955,994; Apr. 26; Sp. p. 4992; Gaz. vol. 153; p. 883.
Pulley. J. J. Frick. No. 959,212; May 24; Sp. p. 6062; Gaz. vol. 154; p. 1014.
Pulley. R. H. Bowen. No. 959,424; May 24; Sp. p. 6466; Gaz. vol. 154; p. 1083.
Pulley. H. Reed. No. 961,796; June 21; Sp. p. 3209; Gaz. vol. 155; p. 576.
Pulley. C. A. Brinley. No. 962,548; June 28; Sp. p. 4886; Gaz. vol. 155; p. 857.
Pulley. E. J. Cunningham. No. 963,998; July 12; Sp. p. 2158; Gaz. vol. 156; p. 353.
Pulley. J. T. Morrison. No. 964,672; July 19; Sp. p. 3579; Gaz. vol. 156; p. 612.
Pulley. H. J. Gilbert. No. 966,541; Aug. 9; Sp. p. 1523; Gaz. vol. 157; p. 261.
Pulley. F. E. Buxton. No. 971,356; Sept. 27; Sp. p. 4697; Gaz. vol. 158; p. 821.
Pulley. W. N. Mecklan. No. 979,873; Dec. 27; Sp. p. 5326; Gaz. vol. 161; p. 921.
Pulley and attachment therefor. C. A. Brinley and R. H. Bowen. No. 957,845; May 10; Sp. p. 2839; Gaz. vol. 154; p. 487.
Pulley and speed-gear, Expansible. R. E. Rosewarne. No. 949,005; Feb. 15; Sp. p. 2580; Gaz. vol. 151; p. 464.
Pulley-block. H. L. Williams and O. Forbes. No. 967,697; Aug. 16; Sp. p. 3945; Gaz. vol. 157; p. 677.
Pulley-block. A. Smith. No. 969,989; Sept. 13; Sp. p. 1830; Gaz. vol. 158; p. 311.
Pulley-block. C. Andersen. No. 970,978; Sept. 20; Sp. p. 3914; Gaz. vol. 158; p. 669.
Pulley-block. H. Rotha. No. 972,254; Oct. 11; Sp. p. 1627; Gaz. vol. 159; p. 286.
Pulley-block. S. J. and P. W. Davis and C. McCready. No. 973,177; Oct. 18; Sp. p. 3693; Gaz. vol. 159; p. 633.
Pulley-block. J. E. Gilchrist. No. 977,613; Dec. 6; Sp. p. 448; Gaz. vol. 161; p. 67.
Pulley-block. G. C. Sandmyre. No. 980,010; Dec. 27; Sp. p. 5594; Gaz. vol. 161; p. 966.
Pulley-bracket, Cable-supporting. W. T. Buck. No. 977,593; Dec. 6; Sp. p. 409; Gaz. vol. 161; p. 60.
Pulley brake and grip. C. H. Boutwell and M. Marshall. No. 969,835; Sept. 13; Sp. p. 1503; Gaz. vol. 158; p. 259.
Pulley, Clutch-. J. McStay and E. F. Stevens. No. 960,599; June 7; Sp. p. 732; Gaz. vol. 155; p. 121.
Pulley, Clutch-. H. H. Locke and C. W. Boring. No. 965,825; July 26; Sp. p. 6116; Gaz. vol. 156; p. 1037.
Pulley-dressing. H. Leix and E. M. Lowy. No. 953,699; Apr. 5; Sp. p. 38; Gaz. vol. 153; p. 10.
Pulley, Driving-. J. Mold. No. 948,516; Feb. 8; Sp. p. 1558; Gaz. vol. 151; p. 274.
Pulley, Expansible. L. B. Jenckes. No. 964,161; July 12; Sp. p. 2484; Gaz. vol. 156; p. 408.
Pulley, Expansible. H. D. Gault. No. 978,285; Dec. 13; Sp. p. 1887; Gaz vol. 161; p. 330.
Pulley, Friction clutch-. A. S. Anderson. No. 977,257; Nov. 29; Sp. p. 7015; Gaz. vol. 160; p. 1193.
Pulley-guard. G. H. Winslow. No. 968,304; Aug. 23; Sp. p. 5266; Gaz. vol. 157; p. 907.
Pulley-line support. A. Schmelczer, S. Niedermayer, and A. J. Dirner. No. 966,129; Aug. 2; Sp. p. 596; Gaz. vol. 157; p. 98.
Pulley, Power-transmitting. W. A. Owen. No. 958,274; May 17; Sp. p. 3965; Gaz. vol. 154; p. 668.
Pulley, Rope-. G. G. Donaldson. No. 956,051; Apr. 26; Sp. p. 5109; Gaz. vol. 153; p. 902.
Pulley-rope gage. G. W. Mack. No. 961,510; June 14; Sp. p. 2620; Gaz. vol. 155; p. 457.
Pulley, Safety-. P. J. A. Schnoor. No. 958,182; May 17; Sp. p. 3775; Gaz. vol. 154; p. 638.
Pulley, Sash-. H. G. Voight. No. 978,796; Dec. 13; Sp. p. 2970; Gaz. vol. 161; p. 503.
Pulley, Sash-cord. H. G. Voight. No. 980,031; Dec. 27; Sp. p. 5653; Gaz. vol. 161; p. 974.
Pulley, Self-lubricating. W. J. Withers. No. 968,624; Aug. 30; Sp. p. 5930; Gaz. vol. 157; p. 1045.
Pulley, Self-oiling. G. A. Snyder. No. 956,607; May 3; Sp. p. 220; Gaz. vol. 154; p. 37.
Pulley, Sheet-metal. E. T. Shepard. No. 953,011; Mar. 22; Sp. p. 5213; Gaz. vol. 152; p. 935.
Pulley, Split. W. H. Stockham. No. 948,080; Feb. 1; Sp. p. 629; Gaz. vol. 151; p. 102.
Pulley, Split. W. H. Stockham. No. 976,227; Nov. 22; Sp. p. 4732; Gaz. vol. 160; p. 812.
Pulley, Window-shade catch-. A. N. Fries. No. 968,547; Aug. 30; Sp. p. 5778; Gaz. vol. 157; p. 1017.
Pulley, Yieldable. H. P. Motter. No. 975,564; Nov. 15; Sp. p. 3319; Gaz. vol. 160; p. 563.
Pulleys, Belt-shifter for cone-. F. F. Clarke. No. 963,209; July 5; Sp. p. 472; Gaz. vol. 156; p. 65.
Pulleys, Crane for clothes-line. L. F. Becker. No. 958,215; May 17; Sp. p. 3839; Gaz. vol. 154; p. 649.
Pulling-jack. W. Sylvester. No. 963,095; July 5; Sp. p. 159; Gaz. vol. 156; p. 24.
Pulling-machine. S. G. Milton. No. 963,237; July 5; Sp. p. 530; Gaz. vol. 156; p. 75.
Pulling-over machine. E. I. La Chapelle. No. 950,179; Feb. 22; Sp. p. 5094; Gaz. vol. 151; p. 895.
Pulling-over machine. R. F. McFeely. No. 950,701; Mar. 1; Sp. p. 508; Gaz. vol. 152; p. 81.
Pulp. C. W. Roberts. No. 954,209; Apr. 5; Sp. p. 1107; Gaz. vol. 153; p. 184.
Pulp-agitator. R. W. Gordon. No. 954,511; Apr. 12; Sp. p. 1744; Gaz. vol. 153; p. 313.
Pulp and analogous materials, Machine for forming articles from. A. Shackleton. No. 958,019; May 17; Sp. p. 3328; Gaz. vol. 154; p. 579.
Pulp and for similar purposes, Cylinder-machine for straining wood-. H. Gaara. No. 953,744; Apr. 5; Sp. p. 125; Gaz. vol. 153; p. 24.
Pulp, Apparatus for forming receptacles from. C. F. Homburg. No. 954,962; Apr. 12; Sp. p. 2774; Gaz. vol. 153; p. 470.
Pulp, Apparatus for the manufacture of sheets of. D. M. and D. M. Sutherland, Jr. No. 971,936; Oct. 4; Sp. p. 929; Gaz. vol. 159; p. 158.
Pulp-digesters, Discharging. C. N. Waite. No. 953,076; Mar. 29; Sp. p. 5353; Gaz. vol. 152; p. 985.
Pulp-extractor. W. H. Janney. No. 955,077; Apr. 12; Sp. p. 2990; Gaz. vol. 153; p. 507.
Pulp-feed regulator. A. Schultz. No. 955,558; Apr. 19; Sp. p. 4008; Gaz. vol. 153; p. 702.
Pulp fibers from pigments, size, filler, and other impurities, Apparatus for separating. B. W. Petsche. No. 955,990; Apr. 26; Sp. p. 4983; Gaz. vol. 153; p. 881.

Alphabetical list of inventions—Continued.

Pulp fibers from pigments, size, filling, and other impurities, Separating. B. W. Petsche. No. 955,898; Apr. 26; Sp. p. 4799; Gaz. vol. 153; p. 849.
Pulp-lap-forming machine. J. P. McCready. No. 967,035; Aug. 9; Sp. p. 2595; Gaz. vol. 157; p. 426.
Pulp machinery. J. H. Wallace. No. 977,147; Nov. 29; Sp. p. 6792; Gaz. vol. 160; p. 1154.
Pulp-making machine. W. Burton. No. 959,307; May 24; Sp. p. 6249; Gaz. vol. 154; p. 1045.
Pulp, Manufacture of wood. J. C. W. Stanley. No. 968,278; Aug. 23; Sp. p. 5217; Gaz. vol. 157; p. 898.
Pulp or liquid, Revolving distributer for. E. H. Moyle. No. 968,182; Aug. 23; Sp. p. 5018; Gaz. vol. 157; p. 865.
Pulp or paper press, Hydraulic. J. L. Coenen. No. 976,551; Nov. 22; Sp. p. 5471; Gaz. vol. 160; p. 924.
Pulp pipe, Manufacturing. S. R. Bradley. No. 966,729; Aug. 9; Sp. p. 1917; Gaz. vol. 157; p. 324.
Pulp-press attachment. J. O. Hunt. No. 978,587; Dec. 13; Sp. p. 2552; Gaz. vol. 161; p. 435.
Pulp-screen. L. S. Williamson. No. 946,185; Jan. 11; Sp. p. 2591; Gaz. vol. 150; p. 430.
Pulp-screen. J. Olsen. No. 974,513; Nov. 1; Sp. p. 1012; Gaz. vol. 160; p. 150.
Pulp-screen, Centrifugal. C. W. Thomas. No. 975,178; Nov. 8; Sp. p. 2497; Gaz. vol. 160; p. 404.
Pulp-stock separator. G. S. Witham, Sr. No. 954,154; Apr. 5; Sp. p. 978; Gaz. vol. 153; p. 165.
Pulp stopper or the like. J. H. Ketcheson. No. 959,225; May 24; Sp. p. 6089; Gaz. vol. 154; p. 1018.
Pulp-treating machine. H. B. Saeter. No. 975,798; Nov. 15; Sp. p. 3811; Gaz. vol. 160; p. 641.
Pulper, Rough. J. D. Tompkins. No. 969,998; Sept. 13; Sp. p. 1850; Gaz. vol. 158; p. 315.
Pulping liquors, Treating "spent". W. J. Hough. No. 945,394; Jan. 4; Sp. p. 846; Gaz. vol. 150; p. 131.
Pulping liquors, Treating spent alkaline. W. J. Hough. No. 949,324; Feb. 15; Sp. p. 3229; Gaz. vol. 151; p. 569.
Pulverizer. H. A. Goetz. No. 945,160; Jan. 4; Sp. p. 317; Gaz. vol. 150; p. 53.
Pulverizer. T. O. Williams. No. 946,416; Jan. 11; Sp. p. 3180; Gaz. vol. 150; p. 511.
Pulverizer. F. D. Maltman. No. 951,138; Mar. 8; Sp. p. 1372; Gaz. vol. 152; p. 249.
Pulverizer. P. C. Forrester and G. A. Browne. No. 955,497; Apr. 19; Sp. p. 3887; Gaz. vol. 153; p. 683.
Pulverizer. G. J. Peterson. No. 976,831; Nov. 22; Sp. p. 6027; Gaz. vol. 160; p. 1018.
Pulverizer, Centrifugal. E. P. Gordon. No. 964,102; July 12; Sp. p. 2372; Gaz. vol. 156; p. 389.
Pulverizer, Disk. F. M. Iler. No. 967,127; Aug. 9; Sp. p. 2795; Gaz. vol. 157; p. 458.
Pulverizing machine, Sand-. C. W. Herb. No. 961,409; June 14; Sp. p. 2392; Gaz. vol. 155; p. 423.
Pulverizing-mill. A. J. Sackett. No. 955,910; Apr. 26; Sp. p. 4819; Gaz. vol. 153; p. 852.
Pulverizing-mill. A. J. Gore. No. 960,893; June 7; Sp. p. 1315; Gaz. vol. 155; p. 220.
Pulverizing-mill. W. H. Lieber. No. 966,843; Aug. 9; Sp. p. 2196; Gaz. vol. 157; p. 361.
Pulverizing-mill, Centrifugal. E. H. Hurry. No. 963,046; July 5; Sp. p. 35; Gaz. vol. 156; p. 8.
Pump. C. C. Wakefield. No. 945,648; Jan. 4; Sp. p. 1373; Gaz. vol. 150; p. 214.
Pump. J. B. Garber. No. 948,168; Feb. 1; Sp. p. 790; Gaz. vol. 151; p. 131.
Pump. W. H. Heard. No. 948,302; Feb. 1; Sp. p. 1083; Gaz. vol. 151; p. 176.
Pump. O. W. Johnson. No. 949,277; Feb. 15; Sp. p. 3136; Gaz. vol. 151; p. 553.
Pump. J. B. Garber. No. 949,423; Feb. 15; Sp. p. 3463; Gaz. vol. 151; p. 604.
Pump. P. A. Myers. No. 949,940; Feb. 22; Sp. p. 4553; Gaz. vol. 151; p. 813.
Pump. I. R. Stout. No. 950,968; Mar. 1; Sp. p. 1060; Gaz. vol. 152; p. 169.
Pump. T. J. Johnson. No. 951,003; Mar. 1; Sp. p. 1117; Gaz. vol. 152; p. 180.
Pump. J. M. Stratton. No. 951,663; Mar. 8; Sp. p. 2442; Gaz. vol. 152; p. 422.
Pump. J. E. and W. E. Gilmore. No. 951,908; Mar. 15; Sp. p. 2957; Gaz. vol. 152; p. 535.
Pump. H. N. Murphey. No. 952,340; Mar. 15; Sp. p. 3791; Gaz. vol. 152; p. 678.
Pump. C. Moukos. No. 953,430; Mar. 29; Sp. p. 6140; Gaz. vol. 152; p. 1102.
Pump. D. H. Piper. No. 953,548; Mar. 29; Sp. p. 6390; Gaz. vol. 152; p. 1145.
Pump. C. H. Scott. No. 954,051; Apr. 5; Sp. p. 736; Gaz. vol. 153; p. 129.
Pump. F. Schmidt. No. 954,471; Apr. 12; Sp. p. 1655; Gaz. vol. 153; p. 299.
Pump. H. P. Petersen. No. 954,994; Apr. 12; Sp. p. 2830; Gaz. vol. 153; p. 480.
Pump. E. Gerstenberg. No. 955,960; Apr. 26; Sp. p. 4920; Gaz. vol. 153; p. 870.
Pump. P. A. Myers and H. A. Toulmin. No. 956,990; May 3; Sp. p. 1067; Gaz. vol. 154; p. 167.
Pump. J. G. Willet. No. 957,451; May 10; Sp. p. 2049; Gaz. vol. 154; p. 355.
Pump. A. A. Parker. No. 957,794; May 10; Sp. p. 2749; Gaz. vol. 154; p. 471.
Pump. J. Holst. No. 959,533; May 31; Sp. p. 6730; Gaz. vol. 154; p. 1145.
Pump. F. Negley. No. 960,575; June 7; Sp. p. 692; Gaz. vol. 155; p. 114.
Pump. G. A. Starr. No. 961,039; June 7; Sp. p. 1610; Gaz. vol. 155; p. 269.
Pump. C. A. Waitz. No. 961,820; June 21; Sp. p. 3278; Gaz. vol. 155; p. 584.
Pump. A. F. Rockwell. No. 962,251; June 21; Sp. p. 4211; Gaz. vol. 155; p. 731.
Pump. J. E. Naughtin. No. 962,518; June 28; Sp. p. 4815; Gaz. vol. 155; p. 847.
Pump. F. S. Dickinson. No. 963,528; July 5; Sp. p. 1138; Gaz. vol. 156; p. 173.
Pump. F. S. Carver. No. 964,087; July 12; Sp. p. 2336; Gaz. vol. 156; p. 384.
Pump. C. E. Stubbs. No. 964,332; July 12; Sp. p. 2826; Gaz. vol. 156; p. 466.
Pump. C. F. Monica. No. 965,923; Aug. 2; Sp. p. 156; Gal. vol. 157; p. 27.
Pump. C. Comstock. No. 966,428; Aug. 9; Sp. p. 1213; Gaz. vol. 157; p. 220.
Pump. W. H. W. Hamilton. No. 966,684; Aug. 9; Sp. p. 1807; Gaz. vol. 157; p. 309.
Pump. E. W. Clark. No. 967,498; Aug. 16; Sp. p. 3569; Gaz. vol. 157; p. 612.
Pump. W. H. Clark. No. 968,126; Aug. 23; Sp. p. 4868; Gaz. vol. 157; p. 845.
Pump. F. I. Du Pont. No. 968,599; Aug. 30; Sp. p. 5878; Gaz. vol. 157; p. 1037.
Pump. B. O. Gage. No. 969,616; Sept. 6; Sp. p. 994; Gaz. vol. 158; p. 158.
Pump. G. J. Dourte. No. 970,435; Sept. 13; Sp. p. 2737; Gaz. vol. 158; p. 461.
Pump. B. N. Wright. No. 971,652; Oct. 4; Sp. p. 298; Gaz. vol. 159; p. 53.
Pump. H. E. Scheuerman. No. 972,653; Oct. 11; Sp. p. 2491; Gaz. vol. 159; p. 425.
Pump. C. L. Heisler. No. 974,061; Oct. 25; Sp. p. 5542; Gaz. vol. 159; p. 961.
Pump. C. M. Smith. No. 974,837; Nov. 8; Sp. p. 1704; Gaz. vol. 160; p. 287.
Pump. C. A. Kaiser. No. 974,974; Nov. 8; Sp. p. 2052; Gaz. vol. 160; p. 335.
Pump. M. Luoma. No. 976,479; Nov. 22; Sp. p. 5308; Gaz. vol. 160; p. 900.
Pump. G. Nicholls. No. 978,626; Dec. 13; Sp. p. 2627; Gaz. vol. 161; p. 448.
Pump. E. E. Slick. No. 978,668; Dec. 13; Sp. p. 2716; Gaz. vol. 161; p. 462.
Pump. B. Black. No. 980,050; Dec. 27; Sp. p. 5688; Gaz. vol. 161; p. 979.
Pump, &c. F. W. Machlet. No. 973,679; Oct. 25; Sp. p. 4764; Gaz. vol. 159; p. 828.
Pump, Air-. F. S. Carver. No. 946,719; Jan. 18; Sp. p. 3809; Gaz. vol. 150; p. 636.
Pump, Air-. J. S. Hemenway. No. 951,529; Mar. 8; Sp. p. 2172; Gaz. vol. 152; p. 377.
Pump, Air-. C. B. Dalzell. No. 952,440; Mar. 15; Sp. p. 3976; Gaz. vol. 152; p. 711.
Pump, Air-. D. F. Cornell. No. 955,321; Apr. 19; Sp. p. 3505; Gaz. vol. 153; p. 621.
Pump, Air-. C. H. Belden. No. 960,789; June 7; Sp. p. 1114; Gaz. vol. 155; p. 186.
Pump, Air-. G. McKerahan. No. 963,923; July 12; Sp. p. 1991; Gaz. vol. 156; p. 327.
Pump, Air-. J. J. McIntyre. No. 974,582; Nov. 1; Sp. p. 1162; Gaz. vol. 160; p. 176.
Pump, Air-. G. J. Spohrer. No. 975,473; Nov. 15; Sp. p. 3112; Gaz. vol. 160; p. 531.
Pump, Air-. W. A. Cook. No. 977,274; Nov. 29; Sp. p. 7045; Gaz. vol. 160; p. 1198.
Pump, Air-. S. R. Williams. No. 977,916; Dec. 6; Sp. p. 1075; Gaz. vol. 161; p. 171.
Pump and compressor, Centrifugal. H. F. Benson. No. 974,345; Nov. 1; Sp. p. 610; Gaz. vol. 160; p. 91.
Pump apparatus, Cam-driven multiple-cylinder. G. W. Kellogg. No. 973,668; Oct. 25; Sp. p. 4748; Gaz. vol. 159; p. 825.
Pump attachment. E. J. Barber. No. 950,506; Mar. 1; Sp. p. 98; Gaz. vol. 152; p. 16.
Pump attachment. O. Nuernberger. No. 957,791; May 10; Sp. p. 2744; Gaz. vol. 154; p. 470.
Pump, Automatic. S. J. Jackson. No. 960,942; June 7; Sp. p. 1402; Gaz. vol. 155; p. 236.
Pump, Automatic air-. J. A. Kenworthy. No. 967,199; Aug. 16; Sp. p. 2947; Gaz. vol. 157; p. 509.
Pump, Automobile-. R. A. Goeth. No. 950,283; Feb. 22; Sp. p. 5317; Gaz. vol. 151; p. 932.
Pump-barrel attachment. W. N. Riddle. No. 970,352; Sept. 13; Sp. p. 2572; Gaz. vol. 158; p. 434.
Pump-base. J. J. Divekey. No. 975,752; Nov. 15; Sp. p. 3712; Gaz. vol. 160; p. 626.
Pump-base. J. F. Barker. No. 978,538; Dec. 13; Sp. p. 2418; Gaz. vol. 161; p. 416.
Pump, Breast-. H. V. Brumley. No. 949,258; Feb. 15; Sp. p. 3097; Gaz. vol. 151; p. 547.
Pump bucket, Chain-. J. H. Burtner. No. 961,933; June 21; Sp. p. 3517; Gaz. vol. 155; p. 621.
Pump, Centrifugal. F. W. Krogh. No. 948,228; Feb. 1; Sp. p. 919; Gaz. vol. 151; p. 150.

Pump, Centrifugal. D. V. Burrell. No. 949,215; Feb. 15; Sp. p. 2998; Gaz. vol. 151; p. 532.
Pump, Centrifugal. R. O. Jones. No. 955,168; Apr. 19; Sp. p. 3170; Gaz. vol. 153; p. 570.
Pump, Centrifugal. R. O. Jones. No. 957,682; May 10; Sp. p. 2511; Gaz. vol. 154; p. 434.
Pump, Centrifugal. H. A. Prindle. No. 958,765; May 24; Sp. p. 5094; Gaz. vol. 154; p. 861.
Pump, Centrifugal. W. K. Richardson. No. 958,768; May 24; Sp. p. 5104; Gaz. vol. 154; p. 862.
Pump, Centrifugal. P. J. Wickblom. No. 959,089; May 24; Sp. p. 5812; Gaz. vol. 154; p. 974.
Pump, Centrifugal. J. Valk. No. 961,993; June 21; Sp. p. 3645; Gaz. vol. 155; p. 641.
Pump, Centrifugal. A. E. Guy. No. 962,023; June 21; Sp. p. 3706; Gaz. vol. 155; p. 651.
Pump, Centrifugal. H. Legros. No. 963,593; July 5; Sp. p. 1268; Gaz. vol. 156; p. 195.
Pump, Centrifugal. F. W. and C. A. Krogh. No. 971,849; Oct. 4; Sp. p. 714; Gaz. vol. 159; p. 125.
Pump, Centrifugal. F. W. and C. A. Krogh. No. 971,850; Oct. 4; Sp. p. 719; Gaz. vol. 159; p. 125.
Pump, Centrifugal. F. W. Krogh. No. 971,851; Oct. 4; Sp. p. 724; Gaz. vol. 159; p. 126.
Pump, Centrifugal. F. W. Krogh. No. 971,852; Oct. 4; Sp. p. 725; Gaz. vol. 159; p. 126.
Pump, Centrifugal. A. E. Guy. No. 972,366; Oct. 11; Sp. p. 1845; Gaz. vol. 159; p. 324.
Pump, Centrifugal. G. E. Hanes and J. B. Waller. No. 975,232; Nov. 8; Sp. p. 2614; Gaz. vol. 160; p. 422.
Pump, Centrifugal. D. W. Blair. No. 976,340; Nov. 22; Sp. p. 5005; Gaz. vol. 160; p. 849.
Pump, Centrifugal. R. Salzer. No. 976,400; Nov. 22; Sp. p. 5145; Gaz. vol. 160; p. 873.
Pump, Centrifugal. F. W. Krogh. No. 977,101; Nov. 29; Sp. p. 6685; Gaz. vol. 160; p. 1138.
Pump, Centrifugal. J. Hurst. No. 978,753; Dec. 13; Sp. p. 2891; Gaz. vol. 161; p. 490.
Pump, Centrifugal force-. T. R. Hayton. No. 973,782; Oct. 25; Sp. p. 4970; Gaz. vol. 159; p. 864.
Pump, Combined air and water. J. B. Garber. No. 953,524; Mar. 29; Sp. p. 6347; Gaz. vol. 152; p. 1137.
Pump, Condenser-. P. J. Pennings. No. 945,587; Jan. 4; Sp. p. 1248; Gaz. vol. 150; p. 194.
Pump, condenser, and compressor, Centrifugal. E. S. G. Rees. No. 975,997; Nov. 15; Sp. p. 4189; Gaz. vol. 160; p. 710.
Pump construction. W. H. Cross. No. 968,029; Aug. 23; Sp. p. 4655; Gaz. vol. 157; p. 813.
Pump control, Automatic electric-. T. F. Mulligan. No. 978,923; Dec. 20; Sp. p. 3223; Gaz. vol. 161; p. 572.
Pump-coupling. B. F. Mohr. No. 948,072; Feb. 1; Sp. p. 615; Gaz. vol. 151; p. 99.
Pump, Cream-collecting. G. M. Freeman. No. 972,075; Oct. 4; Sp. p. 1222; Gaz. vol. 159; p. 207.
Pump-cylinders, Expansion-plunger for. W. F. Jacobs. No. 965,466; July 26; Sp. p. 5330; Gaz. vol. 156; p. 911.
Pump, Deep-well. F. W. Krogh. No. 949,681; Feb. 15; Sp. p. 3946; Gaz. vol. 151; p. 687.
Pump, Deep-well. J. Hahn. No. 976,071; Nov. 15; Sp. p. 4328; Gaz. vol. 160; p. 735.
Pump, Detachable. G. W. Kellogg. No. 954,864; Apr. 12; Sp. p. 2569; Gaz. vol. 153; p. 437.
Pump, Direct-acting. P. F. Oddie. No. 974,698; Nov. 1; Sp. p. 1407; Gaz. vol. 160; p. 218.
Pump, Double-acting. H. B. Arnold. No. 969,127; Aug. 30; Sp. p. 6995; Gaz. vol. 157; p. 1216.
Pump, Double-acting deep-well. J. G. Dorward. No. 959,321; May 24; Sp. p. 6275; Gaz. vol. 154; p. 1050.
Pump, Double-acting horizontal power-. J. M. Stratton. No. 978,673; Dec. 13; Sp. p. 2723; Gaz. vol. 161; p. 464.
Pump driven by means of compressed or rarefied gas. O. Rodhe. No. 947,533; Jan. 25; Sp. p. 5652; Gaz. vol. 150; p. 940.
Pump driving-gear. J. W. Myer. No. 974,694; Nov. 1; Sp. p. 1398; Gaz. vol. 160; p. 217.
Pump driving mechanism. T. G. Smith. No. 978,669; Dec. 13; Sp. p. 2717; Gaz. vol. 161; p. 463.
Pump driving mechanism. J. S. Ward. No. 978,682; Dec. 13; Sp. p. 2740; Gaz. vol. 161; p. 467.
Pump, Duplex spray-. M. T. McCarty. No. 963,626; July 5; Sp. p. 1330; Gaz. vol. 156; p. 206.
Pump, Foot-. H. O. Harrison. No. 956,703; May 3; Sp. p. 442; Gaz. vol. 154; p. 70.
Pump for cleaning drain-pipes, Suction-. L. O. Lundgren. No. 948,590; Feb. 8; Sp. p. 1717; Gaz. vol. 151; p. 298.
Pump for comparatively incompressible liquids. H. Milner. No. 972,558; Oct. 11; Sp. p. 2269; Gaz. vol. 159; p. 392.
Pump for generating pressure, Rotary. C. Dickie. No. 977,439; Dec. 6; Sp. p. 22; Gaz. vol. 161; p. 7.
Pump for internal-combustion engines, Automatic. R. W. J. Smith. No. 967,073; Aug. 9; Sp. p. 2678; Gaz. vol. 157; p. 439.
Pump for medicating air. J. A. Lee. No. 978,313; Dec. 13; Sp. p. 1948; Gaz. vol. 161; p. 340.
Pump for motor-vehicle tires, Inflating-. M. Bohne. No. 946,101; Jan. 11; Sp. p. 2408; Gaz. vol. 150; p. 400.
Pump for motor-vehicles, Tire-. M. L. Bastian. No. 948,807; Feb. 8; Sp. p. 2186; Gaz. vol. 151; p. 371.
Pump for oil and like wells. C. W. Bell. No. 974,342; Nov. 1; Sp. p. 605; Gaz. vol. 160; p. 90.
Pump for use with condensers and the like, Air-. P. F. Oddie. No. 961,000; June 7; Sp. p. 1534; Gaz. vol. 155; p. 257.
Pump for wells. J. F. Durham. No. 958,862; May 24; Sp. p. 5333; Gaz. vol. 154; p. 897.
Pump for wine and similar liquids. M. Ley. No. 950,770; Mar. 1; Sp. p. 667; Gaz. vol. 152; p. 106.
Pump, Force-. F. H. Richards. No. 976,917; Nov. 29; Sp. p. 6241; Gaz. vol. 160; p. 1074.
Pump, Force-. J. F. Cunningham. No. 978,852; Dec. 20; Sp. p. 3069; Gaz. vol. 161; p. 546.
Pump, Gas-. A. S. White. No. 977,690; Dec. 6; Sp. p. 613; Gaz. vol. 161; p. 93.
Pump-governor. L. Kjerulff. No. 951,318; Mar. 8; Sp. p. 1747; Gaz. vol. 152; p. 307.
Pump-governor. T. J. Beaudette. No. 960,249; June 7; Sp. p. 11; Gaz. vol. 155; p. 5.
Pump-governor. W. H. Bice. No. 962,736; June 28; Sp. p. 5282; Gaz. vol. 155; p. 922.
Pump-governor, Electric. W. V. Turner. No. 950,737; Mar. 1; Sp. p. 597; Gaz. vol. 152; p. 94.
Pump-governor, Electric. C. W. Townsend. No. 965,609; July 26; Sp. p. 5663; Gaz. vol. 156; p. 963.
Pump, Hand-. H. J. Kurrus. No. 950,549; Mar. 1; Sp. p. 184; Gaz. vol. 152; p. 31.
Pump, Hand-. S. Barnett. No. 978,265; Dec. 13; Sp. p. 1843; Gaz. vol. 161; p. 322.
Pump-handle. J. H. Sowash and C. E. Stetter. No. 952,051; Mar. 15; Sp. p. 3229; Gaz. vol. 152; p. 581.
Pump-handle. C. L. Kenyon. No. 960,954; June 7; Sp. p. 1428; Gaz. vol. 155; p. 240.
Pump, High-pressure turbine-. W. L. Forward. No. 963,539; July 5; Sp. p. 1157; Gaz. vol. 156; p. 176.
Pump, High-pressure turbine-. W. L. Forward. No. 964,963; July 19; Sp. p. 4271; Gaz. vol. 156; p. 713.
Pump, High-speed compression and vacuum. M. Wenkel. No. 947,536; Jan. 25; Sp. p. 5661; Gaz. vol. 150; p. 940.
Pump, Hydraulic. R. Cairns. No. 973,473; Oct. 25; Sp. p. 4318; Gaz. vol. 159; p. 757.
Pump, Hydropneumatic. F. J. Emeny. No. 953,003; Mar. 22; Sp. p. 5194; Gaz. vol. 152; p. 931.
Pump, Hydropneumatic. J. B. Garber. No. 970,914; Sept. 20; Sp. p. 3790; Gaz. vol. 158; p. 647.
Pump, injector, or the like. G. J. O. D. Dikkers. No. 974,366; Nov. 1; Sp. p. 657; Gaz. vol. 160; p. 98.
Pump-jack. J. L. Hendershot. No. 951,816; Mar. 15; Sp. p. 2753; Gaz. vol. 152; p. 503.
Pump, Lamp-. J. F. Lamb. No. 963,228; July 5; Sp. p. 508; Gaz. vol. 156; p. 72.
Pump liner, Steam-. H. G. Johnston. No. 979,960; Dec. 27; Sp. p. 5492; Gaz. vol. 161; p. 949.
Pump, Liquid-measuring. A. B. Griffen. No. 969,271; Sept. 6; Sp. p. 255; Gaz. vol. 158; p. 42.
Pump, Measuring-. W. B. Haines. No. 958,919; May 24; Sp. p. 5470; Gaz. vol. 154; p. 917.
Pump-motor, Compressed-air. D. R. Tripplehorn. No. 955,296; Apr. 19; Sp. p. 3451; Gaz. vol. 153; p. 613.
Pump, Motor suction-. W. H. Keller. No. 975,532; Nov. 15; Sp. p. 3252; Gaz. vol. 160; p. 552.
Pump, Multiple-feed gear-. W. A. Frederick. No. 974,783; Nov. 8; Sp. p. 1601; Gaz. vol. 160; p. 269.
Pump, Multistage centrifugal. A. Giesler. No. 948,292; Feb. 1; Sp. p. 1064; Gaz. vol. 151; p. 172.
Pump, Oil-. N. McCarty. No. 950,076; Feb. 22; Sp. p. 4882; Gaz. vol. 151; p. 859.
Pump, Oil-. E. Woerner. No. 956,016; Apr. 26; Sp. p. 5037; Gaz. vol. 153; p. 890.
Pump or air-compressor, Rotary. C. R. Gether. No. 971,188; Sept. 27; Sp. p. 4368; Gaz. vol. 158; p. 766.
Pump, Oscillating-piston. M. Keller. No. 961,618; June 14; Sp. p. 2851; Gaz. vol. 155; p. 493.
Pump-pipe insertor and remover. W. L. Rhodes. No. 976,600; Nov. 22; Sp. p. 5568; Gaz. vol. 160; p. 941.
Pump-piston. W. C. Buck. No. 952,304; Mar. 15; Sp. p. 3719; Gaz. vol. 152; p. 665.
Pump, Piston-. J. M. Denson. No. 965,132; July 19; Sp. p. 4605; Gaz. vol. 156; p. 708.
Pump-plunger. O. J. Keller. No. 977,881; Dec. 6; Sp. p. 1002; Gaz. vol. 161; p. 158.
Pump, Pneumatic. T. Davis. No. 969,847; Sept. 13; Sp. p. 1533; Gaz. vol. 158; p. 263.
Pump, Portable. W. H. Van Winkle. No. 978,241; Dec. 13; Sp. p. 1784; Gaz. vol. 161; p. 313.
Pump, Portable vacuum-. J. H. Templin. No. 956,784; May 3; Sp. p. 606; Gaz. vol. 154; p. 97.
Pump, Power tire-. H. D. Waterhouse. No. 977,351; Nov. 29; Sp. p. 7203; Gaz. vol. 160; p. 1225.
Pump, Pressure-. F. W. Humbarger and D. J. Foreman. No. 952,617; Mar. 22; Sp. p. 4385; Gaz. vol. 152; p. 801.
Pump priming and venting apparatus, Water-. A. Blauvelt. No. 966,423; Aug. 9; Sp. p. 1201; Gaz. vol. 157; p. 219.
Pump, Propeller turbine-. E. K. Hood. No. 975,526; Nov. 15; Sp. p. 3231; Gaz. vol. 160; p. 550.
Pump-rod coupling. J. Denis and R. Click. No. 949,222; Feb. 15; Sp. p. 3010; Gaz. vol. 151; p. 535.
Pump-rod coupling. W. B. Scott. No. 971,794; Oct. 4; Sp. p. 593; Gaz. vol. 159; p. 104.

Alphabetical list of inventions—Continued.

Pump, Rotary. S. Hughes. No. 945,953; Jan. 11; Sp. p. 2113; Gaz. vol. 150; p. 351.
Pump, Rotary. O. E. Clement and J. H. Wagner. No. 949,219; Feb. 15; Sp. p. 3006; Gaz. vol. 151; p. 534.
Pump, Rotary. S. L. Menge. No. 950,398; Feb. 22; Sp. p. 5527; Gaz. vol. 151; p. 968.
Pump, Rotary. J. R. Kinney. No. 951,762; Mar. 8; Sp. p. 2637; Gaz. vol. 152; p. 456.
Pump, Rotary. C. Mendizábal. No. 953,539; Mar. 29; Sp. p. 6378; Gaz. vol. 152; p. 1142.
Pump, Rotary. J. R. Kinney. No. 958,136; May 17; Sp. p. 3683; Gaz. vol. 154; p. 621.
Pump, Rotary. G. W. Keller and E. C. Goetz. No. 960,339; June 7; Sp. p. 206; Gaz. vol. 155; p. 36.
Pump, Rotary. F. J. Curtis. No. 963,690; July 5; Sp. p. 1442; Gaz. vol. 156; p. 227.
Pump, Rotary. B. Lobee. No. 967,400; Aug. 16; Sp. p. 3362; Gaz. vol. 157; p. 579.
Pump, Rotary. I. B. Humphreys. No. 969,478; Sept. 6; Sp. p. 688; Gaz. vol. 158; p. 109.
Pump, Rotary. J. Baguley. No. 978,350; Dec. 13; Sp. p. 2020; Gaz. vol. 161; p. 352.
Pump, Rotary. M. E. Durman. No. 978,715; Dec. 13; Sp. p. 2818; Gaz. vol. 161; p. 478.
Pump, Rotary. N. W. Akimoff. No. 979,634; Dec. 27; Sp. p. 4792; Gaz. vol. 161; p. 841.
Pump, Rotary mercury vacuum-. H. A. Fleuss. No. 947,988; Feb. 1; Sp. p. 435; Gaz. vol. 151; p. 70.
Pump, Rotary reversible. C. Lacour. No. 955,464; Apr. 19; Sp. p. 3815; Gaz. vol. 153; p. 670.
Pump, Screw-. E. S. Bennett. No. 950,563; Mar. 1; Sp. p. 216; Gaz. vol. 152; p. 36.
Pump, Screw-. E. S. Bennett. No. 950,564; Mar. 1; Sp. p. 218; Gaz. vol. 152; p. 36.
Pump, Screw-. E. S. Bennett. No. 968,829; Aug. 30; Sp. p. 6385; Gaz. vol. 157; p. 1114.
Pump, Self-measuring. C. F. Hatmaker. No. 954,097; Apr. 5; Sp. p. 844; Gaz. vol. 153; p. 146.
Pump-stand. J. J. Hess. No. 953,830; Apr. 5; Sp. p. 295; Gaz. vol. 153; p. 52.
Pump, Steam-. F. F. Nickel. No. 945,578; Jan. 4; Sp. p. 1233; Gaz. vol. 150; p. 191.
Pump, Steam-. J. March. No. 962,906; June 28; Sp. p. 5605; Gaz. vol. 155; p. 982.
Pump, Steam-engine air-. T. Thompson. No. 967,860; Aug. 16; Sp. p. 4282; Gaz. vol. 157; p. 732.
Pump, Submerged double-acting. A. P. Morris. No. 975,781; Nov. 15; Sp. p. 3776; Gaz. vol. 160; p. 635.
Pump, Syrup-. T. H. Schutt. No. 967,251; Aug. 16; Sp. p. 3048; Gaz. vol. 157; p. 528.
Pump, Tape-controlled measuring-. J. Albrecht. No. 968,827; Aug. 30; Sp. p. 6380; Gaz. vol. 157; p. 1113.
Pump terminal, Suction-. C. D. Durkee. No. 954,269; Apr. 5; Sp. p. 1215; Gaz. vol. 153; p. 203.
Pump, Tire-. W. S. Stapley. No. 947,513; Jan. 25; Sp. p. 5619; Gaz. vol. 150; p. 933.
Pump, Tire-. W. S. Stapley. No. 959,894; May 31; Sp. p. 7502; Gaz. vol. 154; p. 1267.
Pump, Tire-. C. S. Myers. No. 961,153; June 14; Sp. p. 1840; Gaz. vol. 155; p. 333.
Pump, Tire-inflating. M. L. Bastian. No. 957,597; May 10; Sp. p. 2325; Gaz. vol. 154; p. 404.
Pump to lift water, Gas-. A. Micó y Muñoz. No. 963,167; July 5; Sp. p. 354; Gaz. vol. 156; p. 50.
Pump, Two-stage. W. T. Gray. No. 963,756; July 12; Sp. p. 1612; Gaz. vol. 156; p. 271.
Pump, Vacuum-. J. T. Wilkin. No. 958,345; May 17; Sp. p. 4257; Gaz. vol. 154; p. 695.
Pump, Vacuum-. G. S. Williams. No. 960,609; June 7; Sp. p. 749; Gaz. vol. 155; p. 124.
Pump, Vacuum-. G. Staunton. No. 972,939; Oct. 18; Sp. p. 3159; Gaz. vol. 159; p. 551.
Pump, Vacuum-. A. H. Squier. No. 977,338; Nov. 29; Sp. p. 7177; Gaz. vol. 160; p. 1220.
Pump, Vacuum membrane-. M. Falk. No. 953,945; Apr. 5; Sp. p. 518; Gaz. vol. 153; p. 94.
Pump-valve. G. Clark. No. 948,132; Feb. 1; Sp. p. 725; Gaz. vol. 151; p. 119.
Pump-valve. C. Dickinson. No. 956,050; Apr. 26; Sp. p. 5108; Gaz. vol. 153; p. 901.
Pump-valve. G. E. Mack. No. 970,249; Sept. 13; Sp. p. 2381; Gaz. vol. 158; p. 401.
Pump, Valveless. A. Inokuty. No. 973,353; Oct. 18; Sp. p. 4054; Gaz. vol. 159; p. 694.
Pump, Wave-operated. C. P. Bonney. No. 961,401; June 14; Sp. p. 2373; Gaz. vol. 155; p. 420.
Pump, Well-. A. N. Blazer. No. 951,627; Mar. 8; Sp. p. 2363; Gaz. vol. 152; p. 409.
Pump, Windmill-. A. Randolph. No. 975,280; Nov. 8; Sp. p. 2712; Gaz. vol. 160; p. 439.
Pumps, Air-pumping attachment for water-. C. H. Merrill. No. 972,390; Oct. 11; Sp. p. 1895; Gaz. vol. 159; p. 332.
Pumps, Counterbalance for water-. W. Koethe, Jr. No. 948,227; Feb. 1; Sp. p. 916; Gaz. vol. 151; p. 150.
Pumps, Gravity valve-cage and valve for. J. B. Garber. No. 978,729; Dec. 13; Sp. p. 2845; Gaz. vol. 161; p. 482.
Pumps, Inlet-valve and water-screen for. O. H. Lillyman. No. 954,313; Apr. 5; Sp. p. 1313; Gaz. vol. 153; p. 217.
Pumps or motors, Packing for rotary. R. F. Trattner. No. 948,534; Feb. 8; Sp. p. 1586; Gaz. vol. 151; p. 279.
Pumps, Pressure-governor for electrically-operated. F. L. Clark. No. 965,689; July 26; Sp. p. 5828; Gaz. vol. 156; p. 990.
Pumps, Releasing device for well-. A. F. Clarke. No. 951,593; Mar. 8; Sp. p. 2292; Gaz. vol. 152; p. 397.
Pumps, Valve-cage and valve for. J. B. Garber. No. 948,169; Feb. 1; Sp. p. 792; Gaz. vol. 151; p. 131.
Pumps, Valve-rotor for. E. L. Milligan and F. D. Cooley. No. 952,830; Mar. 22; Sp. p. 4857; Gaz. vol. 152; p. 874.
Pumps, Water-regulator for jacketed. W. M. Austin. No. 948,471; Feb. 8; Sp. p. 1451; Gaz. vol. 151; p. 258.
Pumps, Windmill-connector for. P. A. Myers. No. 958,886; May 24; Sp. p. 5397; Gaz. vol. 154; p. 905.
Pumping air or other fluid. T. Wiedemann and J. H. Templin. No. 956,839; May 3; Sp. p. 735; Gaz. vol. 154; p. 116.
Pumping apparatus. F. S. Hebden. No. 948,278; Feb. 1; Sp. p. 1015; Gaz. vol. 151; p. 167.
Pumping apparatus. C. C. Hill. No. 951,397; Mar. 8; Sp. p. 1909; Gaz. vol. 152; p. 322.
Pumping apparatus. S. E. Aaron. No. 952,294; Mar. 15; Sp. p. 3704; Gaz. vol. 152; p. 662.
Pumping apparatus. X. Caverno. No. 955,580; Apr. 19; Sp. p. 4042; Gaz. vol. 153; p. 709.
Pumping apparatus. X. Caverno. No. 963,358; July 5; Sp. p. 791; Gaz. vol. 156; p. 116.
Pumping apparatus. S. E. Aaron. No. 979,633; Dec. 27; Sp. p. 4790; Gaz. vol. 161; p. 840.
Pumping apparatus, Air-. E. L. B. Zimmer. No. 978,258; Dec. 13; Sp. p. 1827; Gaz. vol. 161; p. 319.
Pumping apparatus, Centrifugal. D. W. Jones and E. W. Koppe. No. 975,623; Nov. 15; Sp. p. 3436; Gaz. vol. 160; p. 583.
Pumping apparatus for vacuum-cleaners and the like. W. H. Keller. No. 956,975; May 3; Sp. p. 1040; Gaz. vol. 154; p. 163.
Pumping apparatus, Water-. S. M. Stevens. No. 973,230; Oct. 18; Sp. p. 3812; Gaz. vol. 159; p. 651.
Pumping apparatus, Well-. C. M. Heeter. No. 956,346; Apr. 26; Sp. p. 5770; Gaz. vol. 153; p. 1003.
Pumping cables, Apparatus for cutting well-. G. A. Spang. No. 969,755; Sept. 6; Sp. p. 1296; Gaz. vol. 158; p. 208.
Pumping device, Liquid-. F. H. Parke. No. 963,641; July 5; Sp. p. 1360; Gaz. vol. 156; p. 211.
Pumping-engine. B. O. Gage. No. 972,357; Oct. 11; Sp. p. 1824; Gaz. vol. 159; p. 320.
Pumping-engine, Compound steam. A. England. No. 965,573; July 26; Sp. p. 5584; Gaz. vol. 156; p. 950.
Pumping-machine, Automatic. W. M. Myers. No. 963,058; July 5; Sp. p. 59; Gaz. vol. 156; p. 12.
Pumping machinery, Direct-acting. J. Hutchings. No. 965,819; July 26; Sp. p. 6098; Gaz. vol. 156; p. 1034.
Pumping machinery, Power-head. W. P. Barclay. No. 945,259; Jan. 4; Sp. p. 527; Gaz. vol. 150; p. 87.
Pumping mechanism. C. C. Wickwire. No. 952,594; Mar. 22; Sp. p. 4332; Gaz. vol. 152; p. 793.
Pumping mechanism, Well-. W. T. Gray. No. 976,565; Nov. 22; Sp. p. 5493; Gaz. vol. 160; p. 929.
Pumping oil and other wells, Method of and apparatus for. B. F. Gardner. No. 965,287; July 26; Sp. p. 4928; Gaz. vol. 156; p. 850.
Pumping oil-wells, Method and apparatus for. J. D. Dinsmoor. No. 962,009; June 21; Sp. p. 3678; Gaz. vol. 155; p. 646.
Pumping oil-wells, Method of and apparatus for. A. Sattler. No. 966,772; Aug. 9; Sp. p. 2045; Gaz. vol. 157; p. 340.
Pumping plant, Self-regulating. H. Scheven. No. 946,787; Jan. 18; Sp. p. 3970; Gaz. vol. 150; p. 660.
Pumping-system controlling-valve. F. S. Miller. No. 977,823; Dec. 6; Sp. p. 880; Gaz. vol. 161; p. 138.
Pumping systems, Regulator for gas-. E. Schulte. No. 958,185; May 17; Sp. p. 3780; Gaz. vol. 154; p. 639.
Punch. P. R. Duchemin. No. 955,775; Apr. 19; Sp. p. 4494; Gaz. vol. 153; p. 776.
Punch and bolt-cutter. R. W. Weatherman. No. 975,006; Nov. 8; Sp. p. 2121; Gaz. vol. 160; p. 345.
Punch and die mechanism. C. A. Lindholm. No. 948,818; Feb. 8; Sp. p. 2213; Gaz. vol. 151; p. 374.
Punch and knife-blade, Belt-. R. L. Shepard. No. 969,303; Sept. 6; Sp. p. 317; Gaz. vol. 158; p. 52.
Punch and shear, Combined. J. Monsos. No. 973,124; Oct. 18; Sp. p. 3545; Gaz. vol. 159; p. 613.
Punch, Center-. R. A. Hogge. No. 956,765; May 3; Sp. p. 571; Gaz. vol. 154; p. 91.
Punch, Eyelet setting and embossing. P. O. Mieth. No. 960,104; May 31; Sp. p. 7980; Gaz. vol. 154; p. 1341.
Punch, Hand perforating-. C. H. Reeve and T. A. Oswald. No. 967,555; Aug. 16; Sp. p. 3669; Gaz. vol. 157; p. 631.
Punch, &c., holder. T. H. Lewthwaite. No. 964,922; July 19; Sp. p. 4193; Gaz. vol. 156; p. 699.
Punch, Plate-. A. Koch. No. 956,368; Apr. 26; Sp. p. 5817; Gaz. vol. 153; p. 1011.
Punch, Poultry-marking. T. W. Rogers. No. 961,800; June 21; Sp. p. 3219; Gaz. vol. 155; p. 578.
Punch, Press-. J. H. Gamble. No. 945,930; Jan. 11; Sp. p. 2064; Gaz. vol. 150; p. 343.
Punch press, Multiple-. F. Thompson. No. 966,965; Aug. 9; Sp. p. 2439; Gaz. vol. 157; p. 401.

Punch press, Multiple-. T. A. Banning, Jr. No. 977,362; Nov. 29; Sp. p. 7237; Gaz. vol. 160; p. 1229.
Punch, Railway-ticket. H. E. Palmer. No. 962,913; June 28; Sp. p. 5616; Gaz. vol. 155; p. 984.
Punch, Registering-. H. E. Husted. No. 971,538; Oct. 4; Sp. p. 57; Gaz. vol. 159; p. 12.
Punch, Stitch-removing. O. Johnson. No. 952,333; Mar. 15; Sp. p. 3779; Gaz. vol. 152; p. 676.
Punch, Ticket-. A. P. Odell. No. 945,861; Jan. 11; Sp. p. 1912; Gaz. vol. 150; p. 318.
Punches, dies, and other articles, Machine for manufacturing. G. Kořinek. No. 950,792; Mar. 1; Sp. p. 717; Gaz. vol. 152; p. 115.
Punching and delivering tickets, Apparatus for. W. Clifford. No. 976,046; Nov. 15; Sp. p. 4284; Gaz. vol. 160; p. 726.
Punching and forming machine. J. C. Thompson. No. 945,874; Jan. 11; Sp. p. 1936; Gaz. vol. 150; p. 322.
Punching and riveting machine. G. Whiting and P. Parcells. No. 966,876; Aug. 9; Sp. p. 2269; Gaz. vol. 157; p. 372.
Punching and shearing machine. G. F. Leighton. No. 968,670; Aug. 30; Sp. p. 6042; Gaz. vol. 157; p. 1060.
Punching and shearing machine, Combined. J. W. Grace. No. 947,212; Jan. 18; Sp. p. 4858; Gaz. vol. 150; p. 801.
Punching apparatus. A. J. Setter. No. 961,653; June 14; Sp. p. 2916; Gaz. vol. 155; p. 505.
Punching-machine. J. H. Thompson. No. 957,914; May 17; Sp. p. 3021; Gaz. vol. 154; p. 542.
Punching-machine. E. Southworth and E. A. Spaulding. No. 961,381; June 14; Sp. p. 2345; Gaz. vol. 155; p. 414.
Punching-machine. E. Bambauer. No. 971,514; Oct. 4; Sp. p. 4; Gaz. vol. 159; p. 3.
Punching-machine. C. F. Heinss. No. 976,877; Nov. 29; Sp. p. 6149; Gaz. vol. 160; p. 1060.
Punching-machine. E. B. Stimpson. No. 978,506; Dec. 13; Sp. p. 2350; Gaz. vol. 161; p. 405.
Punching-machines, Automatic attachment for withdrawing punchings from. C. Scott and E. L. Gale, Sr. No. 948,382; Feb. 8; Sp. p. 1270; Gaz. vol. 151; p. 299.
Punching-machines, Clutch mechanism for. E. Southworth. No. 961,382; June 14; Sp. p. 2347; Gaz. vol. 155; p. 415.
Punching-press. W. Johnson. No. 966,689; Aug. 9; Sp. p. 1819; Gaz. vol. 157; p. 311.
Punching-tables, Spacing device for. F. H. Blanding. No. 965,433; July 26; Sp. p. 5255; Gaz. vol. 156; p. 899.
Purse. C. J. Crosgrove. No. 945,705; Jan. 4; Sp. p. 1494; Gaz. vol. 150; p. 233.
Purse. F. E. Stanley. No. 952,375; Mar. 15; Sp. p. 3850; Gaz. vol. 152; p. 689.
Purse, Coin-. O. E. Allen. No. 963,494; July 5; Sp. p. 1063; Gaz. vol. 156; p. 162.
Purse or bill-folder. L. B. Weissbrod. No. 975,813; Nov. 15; Sp. p. 3836; Gaz. vol. 160; p. 646.
Purse, Puzzle-. A. Horsfall. No. 979,303; Dec. 20; Sp. p. 4097; Gaz. vol. 161; p. 705.
Push-button. D. R. Lovejoy. No. 955,521; Apr. 19; Sp. p. 3936; Gaz. vol. 153; p. 690.
Push-button. D. R. Lovejoy. No. 960,654; June 7; Sp. p. 847; Gaz. vol. 155; p. 139.
Push-button switch. A. S. Muller and L. E. Carrico. No. 958,755; May 24; Sp. p. 5076; Gaz. vol. 154; p. 858.
Push-button switch. G. B. Thomas. No. 960,124; May 31; Sp. p. 8022; Gaz. vol. 154; p. 1347.
Push-button switch. C. D. Platt. No. 969,723; Sept. 6; Sp. p. 1206; Gaz. vol. 158; p. 195.
Push-button-switch receptacle. N. Marshall. No. 945,969; Jan. 11; Sp. p. 2145; Gaz. vol. 150; p. 357.
Push-button valve, Mechanical. I. G. Waterman. No. 951,862; Mar. 15; Sp. p. 2852; Gaz. vol. 152; p. 519.
Push-rake. I. Skjeldrup. No. 979,346; Dec. 20; Sp. p. 4169; Gaz. vol. 161; p. 719.
Push-switch, J. G. Peterson. No. 954,461; Apr. 12; Sp. p. 1630; Gaz. vol. 153; p. 296.
Push-switch. C. E. Anderson. No. 955,035; Apr. 12; Sp. p. 2919; Gaz. vol. 153; p. 494.
Putty-knife. A. J. Compton. No. 960,624; June 7; Sp. p. 793; Gaz. vol. 155; p. 129.
Putty-knife. E. E. Koschke. No. 980,177; Dec. 27; Sp. p. 6003; Gaz. vol. 161; p. 1022.
Putty knife and scraper. W. P. Lane. No. 952,746; Mar. 22; Sp. p. 4673; Gaz. vol. 152; p. 845.
Putty-trowel. S. F. Wright. No. 967,480; Aug. 16; Sp. p. 3527; Gaz. vol. 157; p. 606.
Puzzle. W. H. Squire. No. 953,012; Mar. 22; Sp. p. 5214; Gaz. vol. 152; p. 935.
Puzzle. R. L. Hicks. No. 953,908; Apr. 5; Sp. p. 443; Gaz. vol. 153; p. 81.
Puzzle. T. Peacock. No. 955,194; Apr. 19; Sp. p. 3227; Gaz. vol. 153; p. 579.
Puzzle. D. E. Smith. No. 956,441; Apr. 26; Sp. p. 5968; Gaz. vol. 153; p. 1036.
Puzzle. A. H. Wheeler. No. 959,903; May 31; Sp. p. 7516; Gaz. vol. 154; p. 1270.
Puzzle. C. Bruderlein. No. 960,071; May 31; Sp. p. 7923; Gaz. vol. 154; p. 1330.
Puzzle. W. T. Clerk. No. 960,623; June 7; Sp. p. 792; Gaz. vol. 155; p. 129.
Puzzle. E. M. Peck. No. 961,892; June 21; Sp. p. 3439; Gaz. vol. 155; p. 608.
Puzzle. E. J. McFarland. No. 962,039; June 21; Sp. p. 3746; Gaz. vol. 155; p. 657.
Puzzle. J. W. Parker. No. 964,688; July 19; Sp. p. 3716; Gaz. vol. 156; p. 618.
Puzzle. T. A. Barnes. No. 964,740; July 19; Sp. p. 3824; Gaz. vol. 156; p. 636.
Puzzle. A. H. Wheeler. No. 968,218; Aug. 23; Sp. p. 5088; Gaz. vol. 157; p. 876.
Puzzle. J. Wall. No. 968,296; Aug. 23; Sp. p. 5253; Gaz. vol. 157; p. 904.
Puzzle. W. S. Jenkins. No. 969,481; Sept. 6; Sp. p. 695; Gaz. vol. 158; p. 110.
Puzzle. J. von Brethorst. No. 977,265; Nov. 29; Sp. p. 7029; Gaz. vol. 160; p. 1195.
Puzzle, Ball-. L. A. Crozier. No. 977,600; Dec. 6; Sp. p. 429; Gaz. vol. 161; p. 63.
Puzzle-lock. N. D. Gray. No. 976,165; Nov. 22; Sp. p. 4566; Gaz. vol. 160; p. 789.
Puzzle or toy. V. D. Dixon. No. 974,478; Nov. 1; Sp. p. 925; Gaz. vol. 160; p. 138.
Puzzle, Picture-. R. T. Peckham. No. 950,951; Mar. 1; Sp. p. 1024; Gaz. vol. 152; p. 164.
Pyrographic point. L. Quosbarth. No. 957,625; May 10; Sp. p. 2392; Gaz. vol. 154; p. 414.
Pyrometer of the thermo-electric type, Recording-. W. D. Lee. No. 963,908; July 12; Sp. p. 1962; Gaz. vol. 156; p. 322.
Pyrophoric mass. C. A. von Welsbach. No. 976,760; Nov. 22; Sp. p. 5890; Gaz. vol. 160; p. 995.
Pyrotechnic compound. B. J. Dever and B. J. Delzeit. No. 969,252; Sept. 6; Sp. p. 224; Gaz. vol. 158; p. 36.
Pyrotechnics. L. and J. Schulman. No. 956,546; May 3; Sp. p. 86; Gaz. vol. 154; p. 16.
Pyrotechnical button. A. Jedel. No. 948,225; Feb. 1; Sp. p. 913; Gaz. vol. 151; p. 149.
Pyroxylin, &c., and making the same, Solvent for. H. V. Walker. No. 972,953; Oct. 18; Sp. p. 3193; Gaz. vol. 159; p. 555.
Pyroxylin compound. W. G. Lindsay. No. 961,360; June 14; Sp. p. 2310; Gaz. vol. 155; p. 408.
Quad, Cored. J. R. Blumenberg. No. 973,469; Oct. 25; Sp. p. 4314; Gaz. vol. 159; p. 756.
Quad mold and actuating mechanism therefor, Low-. F. S. Chanonhouse. No. 952,604; Mar. 22; Sp. p. 4362; Gaz. vol. 152; p. 797.
Quartz-mill. J. W. Myer. No. 975,369; Nov. 8; Sp. p. 2894; Gaz. vol. 160; p. 468.
Quick-acting wrench. W. R. Bresee. No. 957,932; May 17; Sp. p. 3051; Gaz. vol. 154; p. 548.
Quick-adjusting wrench. R. L. Walters. No. 959,436; May 24; Sp. p. 6488; Gaz. vol. 154; p. 1087.
Quick coupling. W. H. Leonard. No. 974,501; Nov. 1; Sp. p. 979; Gaz. vol. 160; p. 145.
Quicksilver apparatus. I. Hageman. No. 970,705; Sept. 20; Sp. p. 3356; Gaz. vol. 158; p. 576.
Quilting device. J. R. Russell. No. 960,709; June 7; Sp. p. 956; Gaz. vol. 155; p. 159.
Quilting-frame. M. La Bombard. No. 945,100; Jan. 4; Sp. p. 195; Gaz. vol. 150; p. 33.
Quilting-frame. P. D. Mahoney. No. 945,965; Jan. 11; Sp. p. 2139; Gaz. vol. 150; p. 356.
Quilting-frame. F. Jakob. No. 957,561; May 10; Sp. p. 2269; Gaz. vol. 154; p. 393.
Quilling-machine attachment. W. B. Lovatt, D. A. and P. F. Rehrig. No. 953,914; Apr. 5; Sp. p. 456; Gaz. vol. 153; p. 83.
Quinin ester. H. Thron. No. 978,792; Dec. 13; Sp. p. 2963; Gaz. vol. 161; p. 501.
Quinin, Producing a sulfur compound of. F. W. S. Valentiner. No. 953,187; Mar. 29; Sp. p. 5617; Gaz. vol. 152; p. 1021.
Quoin. J. W. Talbot. No. 948,000; Feb. 1; Sp. p. 459; Gaz. vol. 151; p. 74.
Racing apparatus. A. Schumann. No. 962,057; June 21; Sp. p. 3787; Gaz. vol. 155; p. 664.
Rack: *See* Ax-rack; Belt-rack; Billiard-cue rack; Book-rack; Bottle-rack; Card-rack; Clothes-rack; Clothes-drying rack; Crate-rack; Desk book-rack; Display-rack; Drawing-rack; Dress-suit rack; Folding rack; Garment-rack; Grain-separator straw-rack; Hat-rack; Hat and clothes rack; Hat, coat, and umbrella rack; Hay-rack; Hay-drying rack; Hay-gatherer rack; Hay-loader rack; Hose-rack; Life-buoy rack; Loom-rack; Mail-distributing rack; Meat-rack; Memorandum-rack; Music-rack; Paper-rack; Pen-rack; Photographer's extension-rack; Photographic developing-rack; Pool-ball rack; Serving-rack; Shoe-rack; Shoe-supporting rack; Towel-rack; Trousers-rack; Wagon-rack; Wall-rack; Whip-rack.
Rack. A. Anderson. No. 977,693; Dec. 6; Sp. p. 623; Gaz. vol. 161; p. 95.
Rack-inclosure. S. Hermann. No. 968,352; Aug. 23; Sp. p. 5361; Gaz. vol. 157; p. 925.
Rack or cabinet. E. H. Hitchcock. No. 954,805; Apr. 12; Sp. p. 2430; Gaz. vol. 153; p. 415.
Rack or hanger for pipes, poles, rods, and other objects. A. Seidel. No. 950,517; Mar. 1; Sp. p. 121; Gaz. vol. 152; p. 20.
Rack-rail. G. E. Lynch. No. 959,565; May 31; Sp. p. 6805; Gaz. vol. 154; p. 1158.

Alphabetical list of inventions—Continued.

Racket-press. W. A. Johnson. No. 978,455; Dec. 13; Sp. p. 2238; Gaz. vol. 161; p. 388.
Radial drill. J. G. Dornbirer. No. 979,749; Dec. 27; Sp. p. 5051; Gaz. vol. 161; p. 879.
Radiation-calculator. P. F. Brown. No. 974,354; Nov. 1; Sp. p. 637; Gaz. vol. 160; p. 94.
Radiator. W. Wilkinson. No. 948,083; Feb. 1; Sp. p. 634; Gaz. vol. 151; p. 103.
Radiator. J. Kane. No. 954,971; Apr. 12; Sp. p. 2795; Gaz. vol. 153; p. 473.
Radiator. E. W. Winans. No. 955,241; Apr. 19; Sp. p. 3340; Gaz. vol. 153; p. 596.
Radiator. S. D. Stauffer. No. 962,061; June 21; Sp. p. 3793; Gaz. vol. 155; p. 666.
Radiator. E. and H. Behringer. No. 962,189; June 21; Sp. p. 4096; Gaz. vol. 155; p. 711.
Radiator. S. W. Rapp. No. 963,807; July 12; Sp. p. 1745; Gaz. vol. 156; p. 289.
Radiator. D. T. Lyon. No. 965,827; July 26; Sp. p. 6120; Gaz. vol. 156; p. 1038.
Radiator. R. W. Knapp. No. 966,218; Aug. 2; Sp. p. 808; Gaz. vol. 157; p. 128.
Radiator. F. Todd. No. 966,721; Aug. 9; Sp. p. 1901; Gaz. vol. 157; p. 321.
Radiator. G. V. Candler. No. 976,147; Nov. 22; Sp. p. 4521; Gaz. vol. 160; p. 784.
Radiator. J. J. Lawler. No. 977,202; Nov. 29; Sp. p. 6916; Gaz. vol. 160; p. 1175.
Radiator. J. A. Wilson, Jr. No. 978,975; Dec. 20; Sp. p. 3363; Gaz. vol. 161; p. 591.
Radiator. F. C. Birch. No. 979,414; Dec. 27; Sp. p. 4311; Gaz. vol. 161; p. 765.
Radiator and foot-warmer, Combined. J. E. Jones. No. 968,569; Aug. 30; Sp. p. 5824; Gaz. vol. 157; p. 1026.
Radiator attachment. J. R. Entwistle. No. 953,461; Mar. 29; Sp. p. 6204; Gaz. vol. 152; p. 1112.
Radiator attachment. W. H. Drake. No. 958,995; May 24; Sp. p. 5608; Gaz. vol. 154; p. 942.
Radiator-castings, Pattern for. C. W. G. Sodemann. No. 963,086; July 5; Sp. p. 120; Gaz. vol. 156; p. 21.
Radiator, Electric. J. A. Tupper. No. 976,615; Nov. 22; Sp. p. 5595; Gaz. vol. 160; p. 946.
Radiator-fitting. T. G. Mouat. No. 973,063; Oct. 18; Sp. p. 3427; Gaz. vol. 159; p. 593.
Radiator foot-rail. A. J. Beaton. No. 956,029; Apr. 26; Sp. p. 5061; Gaz. vol. 153; p. 894.
Radiator foot-rest. E. G. Briggs. No. 959,917; May 31; Sp. p. 7554; Gaz. vol. 154; p. 1276.
Radiator for automobiles. J. B. Long and F. Todd. No. 964,799; July 19; Sp. p. 3946; Gaz. vol. 156; p. 656.
Radiator for motor-vehicles. L. H. Brinkman. No. 953,252; Mar. 29; Sp. p. 5758; Gaz. vol. 152; p. 1042.
Radiator for vacuum-pans. A. Gräntzdörffer. No. 953,607; Mar. 29; Sp. p. 6520; Gaz. vol. 152; p. 1164.
Radiator-hanger. A. Seidel. No. 950,494; Mar. 1; Sp. p. 68; Gaz. vol. 152; p. 12.
Radiator hanger, Wall-. A. Kehm. No. 963,580; July 5; Sp. p. 1245; Gaz. vol. 156; p. 191.
Radiator, Heat-. S. M. Redfield. No. 965,226; July 26; Sp. p. 4798; Gaz. vol. 156; p. 830.
Radiator-mantel. E. Bornmueller and P. C. Sachse. No. 946,932; Jan. 18; Sp. p. 4325; Gaz. vol. 150; p. 710.
Radiator or other heating-stove heated by gaseous fuel. H. N. Davis and W. R. Twigg. No. 971,119; Sept. 27; Sp. p. 4210; Gaz. vol. 158; p. 743.
Radiator, Sheet-metal. R. E. Mosher. No. 976,203; Nov. 22; Sp. p. 4658; Gaz. vol. 160; p. 803.
Radiator, Steam-. W. M. Whitlock. No. 955,300; Apr. 19; Sp. p. 3461; Gaz. vol. 153; p. 614.
Radiator, Stove or furnace. F. Fiebeger. No. 970,483; Sept. 20; Sp. p. 2857; Gaz. vol. 158; p. 499.
Radiator-top. H. W. Baerresen and E. C. Schmidt. No. 946,691; Jan. 18; Sp. p. 3751; Gaz. vol. 150; p. 627.
Radiators, Adjustable ventilating connection for. L. A. Girvin. No. 977,088; Nov. 29; Sp. p. 6647; Gaz. vol. 160; p. 1133.
Radiators, Vent attachment for. W. L. Walter. No. 958,198; May 17; Sp. p. 3806; Gaz. vol. 154; p. 643.
Radius-rod. H. E. Coffin. No. 969,748; Sept. 6; Sp. p. 1280; Gaz. vol. 158; p. 205.
Raft appliance. M. F. Brown. No. 972,054; Oct. 4; Sp. p. 1185; Gaz. vol. 159; p. 199.
Rags, &c., Machine for carbonizing, shaking, mixing, or similarly treating. J. Fitton. No. 964,011; July 12; Sp. p. 2179; Gaz. vol. 156; p. 357.
Rail. J. C. Getty. No. 958,486; May 17; Sp. p. 4538; Gaz. vol. 154; p. 743.
Rail. H. L. Sawdey. No. 960,713; June 7; Sp. p. 964; Gaz. vol. 155; p. 160.
Rail-anchor. W. A. Walker. No. 961,918; June 21; Sp. p. 3485; Gaz. vol. 155; p. 617.
Rail-anchor. W. A. Walker. No. 963,097; July 5; Sp. p. 165; Gaz. vol. 156; p. 25.
Rail-anchor. W. B. Cooke. No. 964,397; July 12; Sp. p. 2944; Gaz. vol. 156; p. 487.
Rail-anchor. C. D. Porterfield. No. 968,797; Aug. 30; Sp. p. 6331; Gaz. vol. 157; p. 1104.
Rail-anchor. C. F. Clawson. No. 970,306; Sept. 13; Sp. p. 2490; Gaz. vol. 158; p. 419.
Rail-anchor. C. F. Clawson. No. 972,061; Oct. 4; Sp. p. 1200; Gaz. vol. 159; p. 203.
Rail-anchor. J. A. Bodkin. No. 973,160; Oct. 18; Sp. p. 3642; Gaz. vol. 159; p. 627.
Rail-anchor. J. J. Byers. No. 978,110; Dec. 6; Sp. p. 1475; Gaz. vol. 161; p. 238.
Rail and chair, Combined guard-. W. S. Newhall and S. B. Robertson. No. 964,176; July 12; Sp. p. 2510; Gaz. vol. 156; p. 413.
Rail and joint therefor. B. Brill, Jr., and A. A. Thompson. No. 962,740; June 28; Sp. p. 5289; Gaz. vol. 155; p. 923.
Rail-anticreeper. J. G. Portteus. No. 977,678; Dec. 6; Sp. p. 580; Gaz. vol. 161; p. 89.
Rail anticreeping device. B. Wolhaupter. No. 957,023; May 3; Sp. p. 1138; Gaz. vol. 154; p. 179.
Rail bending and straightening device. F. Yoch. No. 975,192; Nov. 8; Sp. p. 2541; Gaz. vol. 160; p. 409.
Rail-bond. C. R. Sturdevant. No. 957,911; May 17; Sp. p. 3018; Gaz. vol. 154; p. 541.
Rail-bond. W. B. Cleveland. No. 959,718; May 31; Sp. p. 7109; Gaz. vol. 154; p. 1207.
Rail-bond. C. L. Cadle. No. 963,356; July 5; Sp. p. 787; Gaz. vol. 156; p. 116.
Rail-bond. E. M. Weaver. No. 976,617; Nov. 22; Sp. p. 5598; Gaz. vol. 160; p. 947.
Rail-bond. C. R. Sturdevant. No. 976,947; Nov. 29; Sp. p. 6330; Gaz. vol. 160; p. 1085.
Rail-bond. W. J. Randolph, Sr. and Jr. No. 979,202; Dec. 20; Sp. p. 3880; Gaz. vol. 161; p. 671.
Rail-bond. R. L. Dunivant. No. 979,448; Dec. 27; Sp. p. 4382; Gaz. vol. 161; p. 776.
Rail-bonding apparatus. C. L. Cadle. No. 950,688; Mar. 1; Sp. p. 477; Gaz. vol. 152; p. 77.
Rail-bonding apparatus. W. A. Neff. No. 961,984; June 21; Sp. p. 3626; Gaz. vol. 155; p. 638.
Rail-bonding apparatus, Portable. W. A. Neff. No. 950,784; Mar. 1; Sp. p. 697; Gaz. vol. 152; p. 111.
Rail-brace. A. O. Buckius, Jr. No. 956,282; Apr. 26; Sp. p. 5625; Gaz. vol. 153; p. 982.
Rail-brace. W. S. Newhall. No. 961,636; June 14; Sp. p. 2886; Gaz. vol. 155; p. 499.
Rail-brace. J. C. Sellers. No. 964,063; July 12; Sp. p. 2283; Gaz. vol. 156; p. 376.
Rail-brace and tie-plate, Combined. J. W. Stephenson. No. 964,325; July 12; Sp. p. 2813; Gaz. vol. 156; p. 464.
Rail-brace and tie-plate, Combined. J. W. Stephenson. No. 979,350; Dec. 20; Sp. p. 4174; Gaz. vol. 161; p. 720.
Rail-brace and tie-plate, Combined. J. W. Stephenson. No. 979,351; Dec. 20; Sp. p. 4175; Gaz. vol. 161; p. 721.
Rail brace or clamp. O. J. Van Bibber. No. 979,230; Dec. 20; Sp. p. 3950; Gaz. vol. 161; p. 682.
Rail-breaking device. J. Durie. No. 969,256; Sept. 6; Sp. p. 229; Gaz. vol. 158; p. 37.
Rail-chair. S. Mogyorosi and G. Papp. No. 951,141; Mar. 8; Sp. p. 1376; Gaz. vol. 152; p. 250.
Rail-chair. C. Malitch. No. 958,964; May 24; Sp. p. 5546; Gaz. vol. 154; p. 932.
Rail-chair. C. A. Tilly. No. 960,443; June 7; Sp. p. 408; Gaz. vol. 155; p. 69.
Rail-chair. J. L. Jenkins. No. 960,644; June 7; Sp. p. 830; Gaz. vol. 155; p. 136.
Rail-chair. F. Knobel and E. F. Asay. No. 975,536; Nov. 15; Sp. p. 3264; Gaz. vol. 160; p. 554.
Rail-chair. T. P. Livingston. No. 978,176; Dec. 13; Sp. p. 1656; Gaz. vol. 161; p. 291.
Rail chair, Adjustable guard-. B. J. Fallon. No. 978,996; Dec. 20; Sp. p. 3404; Gaz. vol. 161; p. 599.
Rail chair and brace, Combined. G. A. Johnson. No. 963,294; July 5; Sp. p. 670; Gaz. vol. 156; p. 94.
Rail chair and coupling. J. C. Evans and P. G. Hill. No. 958,241; May 17; Sp. p. 3886; Gaz. vol. 154; p. 656.
Rail chair and fastener. J. A. Kercheveal. No. 946,054; Jan. 11; Sp. p. 2316; Gaz. vol. 150; p. 385.
Rail chair and spike. I. D. Zitzerman. No. 964,360; July 12; Sp. p. 2876; Gaz. vol. 156; p. 475.
Rail-clamp. E. Good. No. 949,321; Feb. 15; Sp. p. 3223; Gaz. vol. 151; p. 568.
Rail-clamp. W. Berry. No. 957,838; May 10; Sp. p. 2825; Gaz. vol. 154; p. 485.
Rail-clamp. W. Berry and G. W. Post. No. 966,989; Aug. 9; Sp. p. 2496; Gaz. vol. 157; p. 410.
Rail clamp, Adjustable guard-. R. E. Einstein. No. 960,858; June 7; Sp. p. 1247; Gaz. vol. 155; p. 208.
Rail clamp, Guard-. C. A. Alden. No. 949,253; Feb. 15; Sp. p. 3079; Gaz. vol. 151; p. 545.
Rail clamp, Guard-. M. Burpee. No. 975,395; Nov. 15; Sp. p. 2963; Gaz. vol. 160; p. 503.
Rail clamp, Guard-. E. C. Scruggs. No. 979,343; Dec. 20; Sp. p. 4164; Gaz. vol. 161; p. 718.
Rail clamp, Guard-. G. L. Hall. No. 979,477; Dec. 27; Sp. p. 4442; Gaz. vol. 161; p. 784.
Rail-cleaner. J. P. Gorman. No. 954,278; Apr. 5; Sp. p. 1233; Gaz. vol. 153; p. 206.
Rail cleaner, Third-. A. J. Cockerell. No. 972,600; Oct. 11; Sp. p. 2385; Gaz. vol. 159; p. 407.
Rail-clip. O. M. Knox. No. 948,375; Feb. 8; Sp. p. 1254; Gaz. vol. 151; p. 226.
Rail, Compound. A. Berry. No. 964,606; July 19; Sp. p. 3449; Gaz. vol. 156; p. 590.
Rail, Compound. T. H. Wheless. No. 968,617; Aug. 30; Sp. p. 5916; Gaz. vol. 157; p. 1042.

Rail connection. H. Grass. No. 945,519; Jan. 4; Sp. p. 1107; Gaz. vol. 150; p. 171.
Rail-cutting machine. B. Hurd. No. 959,142; May 24; Sp. p. 5915; Gaz. vol. 154; p. 990.
Rail drilling and reaming machine. H. W. Jacobs. No. 966,751; Aug. 9; Sp. p. 1998; Gaz. vol. 157; p. 333.
Rail-drilling machine. F. E. Place and M. L. Jenkins. No. 962,914; June 28; Sp. p. 5618; Gaz. vol. 155; p. 984.
Rail-fastener. G. Porter. No. 954,465; Apr. 12; Sp. p. 1636; Gaz. vol. 153; p. 297.
Rail-fastener. W. H. Castle. No. 955,761; Apr. 19; Sp. p. 4470; Gaz. vol. 153; p. 771.
Rail-fastener. D. Ashworth. No. 957,641; May 10; Sp. p. 2424; Gaz. vol. 154; p. 419.
Rail-fastener. A. S. Chilsen. No. 964,213; July 12; Sp. p. 2579; Gaz. vol. 156; p. 425.
Rail-fastener. L. S. Crotser. No. 964,218; July 12; Sp. p. 2588; Gaz. vol. 156; p. 427.
Rail-fastener. J. A. and A. C. McMillen. No. 964,675; July 19; Sp. p. 3584; Gaz. vol. 156; p. 613.
Rail-fastener. D. D. Norris. No. 964,682; July 19; Sp. p. 3702; Gaz. vol. 156; p. 616.
Rail-fastener. A. C. Connelly. No. 966,168; Aug. 2; Sp. p. 701; Gaz. vol. 157; p. 111.
Rail-fastener. C. B. Scott. No. 974,301; Nov. 1; Sp. p. 501; Gaz. vol. 160; p. 74.
Rail-fastener. E. H. Case and T. R. Barrall. No. 974,356; Nov. 1; Sp. p. 641; Gaz. vol. 160; p. 95.
Rail-fastener for metallic ties. M. F. Bowser. No. 950,989; Mar. 1; Sp. p. 1094; Gaz. vol. 152; p. 176.
Rail-fastener, Metallic. L. Leaf. No. 975,878; Nov. 15; Sp. p. 3969; Gaz. vol. 160; p. 668.
Rail-fastening. E. E. Slick. No. 950,080; Feb. 22; Sp. p. 4891; Gaz. vol. 151; p. 861.
Rail-fastening. W. A. Williams. No. 964,726; July 19; Sp. p. 3800; Gaz. vol. 156; p. 631.
Rail-fastening. O. Payzant. No. 977,041; Nov. 29; Sp. p. 6547; Gaz. vol. 160; p. 1117.
Rail-frogs, Foot-guard for. W. C. Prosser. No. 960,397; June 7; Sp. p. 329; Gaz. vol. 155; p. 55.
Rail, Guard-. R. A. Easley. No. 946,425; Jan. 11; Sp. p. 3194; Gaz. vol. 150; p. 514.
Rail, Guard-. O. C. Simmons. No. 948,597; Feb. 8; Sp. p. 1727; Gaz. vol. 151; p. 299.
Rail hanger, Elevated-. H. P. Hanson. No. 950,103; Feb. 22; Sp. p. 4938; Gaz. vol. 151; p. 869.
Rail-holder. W. H. Brown. No. 959,451; May 31; Sp. p. 6542; Gaz. vol. 154; p. 1118.
Rail-holding device. J. B. Latimer and A. D. Cloud. No. 972,545; Oct. 11; Sp. p. 2243; Gaz. vol. 159; p. 387.
Rail-jack. G. K. Reiley. No. 958,539; May 17; Sp. p. 4636; Gaz. vol. 154; p. 762.
Rail-joiner. C. U. Ludvigsen and P. Sveistrup. No. 963,718; July 5; Sp. p. 1516; Gaz. vol. 156; p. 236.
Rail-joint. S. A. Holman. No. 946,545; Jan. 18; Sp. p. 3453; Gaz. vol. 150; p. 581.
Rail-joint. A Lawrence. No. 947,108; Jan. 18; Sp. p. 4653; Gaz. vol. 150; p. 768.
Rail-joint. R. H. Conway and H. E. Bisbing. No. 947,173; Jan. 18; Sp. p. 4771; Gaz. vol. 150; p. 787.
Rail-joint. A. C. Herbert. No. 947,553; Jan. 25; Sp. p. 5695; Gaz. vol. 150; p. 945.
Rail-joint. F. W. Krueger. No. 947,825; Feb. 1; Sp. p. 76; Gaz. vol. 151; p. 16.
Rail-joint. A. A. Lind. No. 948,015; Feb. 1; Sp. p. 487; Gaz. vol. 151; p. 79.
Rail-joint. J. K. and B. W. D. Gorrell. No. 948,069; Feb. 1; Sp. p. 609; Gaz. vol. 151; p. 98.
Rail-joint. A. C. Jenrich. No. 948,097; Feb. 1; Sp. p. 665; Gaz. vol. 151; p. 108.
Rail-joint. E. A. Boicourt. No. 949,213; Feb. 15; Sp. p. 2996; Gaz. vol. 151; p. 532.
Rail-joint. H. Dailey. No. 949,415; Feb. 15; Sp. p. 3450; Gaz. vol. 151; p. 602.
Rail-joint. E. F. Odell and G. A. Humason. No. 949,744; Feb. 15; Sp. p. 4090; Gaz. vol. 151; p. 709.
Rail-joint. B. Wolhaupter. No. 950,587; Mar. 1; Sp. p. 256; Gaz. vol. 152; p. 42.
Rail-joint. J. H. Hayes. No. 950,668; Mar. 1; Sp. p. 440; Gaz. vol. 152; p. 71.
Rail-joint. H. H. Julick. No. 951,004; Mar. 1; Sp. p. 1118; Gaz. vol. 152; p. 181.
Rail-joint. J. H. Williams and A. Tortorice. No. 951,713; Mar. 8; Sp. p. 2515; Gaz. vol. 152; p. 437.
Rail-joint. I. L. and F. M. Leasure. No. 952,264; Mar. 15; Sp. p. 3630; Gaz. vol. 152; p. 652.
Rail-joint. W. H. French. No. 952,324; Mar. 15; Sp. p. 3754; Gaz. vol. 152; p. 672.
Rail-joint. J. E. Miller. No. 953,215; Mar. 29; Sp. p. 5670; Gaz. vol. 152; p. 1030.
Rail-joint. C. H. Beutler. No. 953,583; Mar. 29; Sp. p. 6472; Gaz. vol. 152; p. 1157.
Rail-joint. H. Foltz. No. 953,660; Mar. 29; Sp. p. 6626; Gaz. vol. 152; p. 1182.
Rail-joint. T. L. Humble. No. 953,786; Apr. 5; Sp. p. 203; Gaz. vol. 153; p. 38.
Rail-joint. A. G. Broussard. No. 954,251; Apr. 5; Sp. p. 1180; Gaz. vol. 153; p. 197.
Rail-joint. F. R. Rush. No. 954,347; Apr. 5; Sp. p. 1389; Gaz. vol. 153; p. 230.
Rail-joint. C. L. Bundy. No. 954,419; Apr. 12; Sp. p. 1531; Gaz. vol. 153; p. 281.
Rail-joint. H. F. Roach. No. 954,590; Apr. 12; Sp. p. 1904; Gaz. vol. 153; p. 339.
Rail-joint. H. F. Roach. No. 954 649; Apr. 12; Sp. p. 2048; Gaz. vol. 153; p. 360.
Rail-joint. R. G. Musgrove. No. 954,684; Apr. 12; Sp. p. 2122; Gaz. vol. 153; p. 372.
Rail-joint. G. W. Klinker. No. 954,865; Apr. 12; Sp. p. 2571; Gaz. vol. 153; p. 437.
Rail-joint. J. F. Wessel. No. 955,028; Apr. 12; Sp. p. 2907; Gaz. vol. 153; p. 492.
Rail-joint. E. D. Lapish. No. 955,274; Apr. 19; Sp. p. 3406; Gaz. vol. 153; p. 606.
Rail-joint. C. E. Biser, W. W. and J. E. McCrae. No. 955,750; Apr. 19; Sp. p. 4451; Gaz. vol. 153; p. 768.
Rail-joint. C. F. Wolf. No. 956,014; Apr. 26; Sp. p. 5034; Gaz. vol. 153; p. 890.
Rail-joint. S. Shuller. No. 956,440; Apr. 26; Sp. p. 5967; Gaz. vol. 153; p. 1036.
Rail-joint. C. D. Russell. No. 956,828; May 3; Sp. p. 719; Gaz. vol. 154; p. 113.
Rail-joint. A. R. Berryman. No. 957,030; May 3; Sp. p. 1150; Gaz. vol. 154; p. 182.
Rail-joint. A. L. Stanford. No. 957,121; May 3; Sp. p. 1325; Gaz. vol. 154; p. 211.
Rail-joint. C. J. Mills. No. 958,418; May 17; Sp. p. 4400; Gaz. vol. 154; p. 719.
Rail-joint. W. P. Davis. No. 958,602; May 17; Sp. p. 4762; Gaz. vol. 154; p. 782.
Rail-joint. U. R. Hatfield. No. 959,218; May 24; Sp. p. 6072; Gaz. vol. 154; p. 1015.
Rail-joint. W. Barnett. No. 960,062; May 31; Sp. p. 7907; Gaz. vol. 154; p. 1328.
Rail-joint. J. W. Waddell. No. 960,453; June 7; Sp. p. 420; Gaz. vol. 155; p. 71.
Rail-joint. H. W. Sawyer. No. 961,027; June 7; Sp. p. 1584; Gaz. vol. 155; p. 265.
Rail-joint. S. Kenyeres. No. 962,028; June 21; Sp. p. 3718; Gaz. vol. 155; p. 653.
Rail-joint. R. Burgunder. No. 962,813; June 28; Sp. p. 5434; Gaz. vol. 155; p. 949.
Rail-joint. J. W. and E. J. Enright. No. 962,824; June 28; Sp. p. 5450; Gaz. vol. 155; p. 953.
Rail-joint. G. J. Weisent. No. 964,349; July 12; Sp. p. 2860; Gaz. vol. 156; p. 472.
Rail-joint. T. F. Sherin. No. 964,454; July 12; Sp. p. 3067; Gaz. vol. 156; p. 504.
Rail-joint. C. C. Stockton. No. 965,124; July 19; Sp. p. 4584; Gaz. vol. 156; p. 765.
Rail-joint. N. H. Roe. No. 965,540; July 26; Sp. p. 5511; Gaz. vol. 156; p. 939.
Rail-joint. J. L. Reynolds. No. 966,052; Aug. 2; Sp. p. 455; Gaz. vol. 157; p. 73.
Rail-joint. A. J. Baritell. No. 966,419; Aug. 9; Sp. p. 1194; Gaz. vol. 157; p. 217.
Rail-joint. E. Posson. No. 966,949; Aug. 9; Sp. p. 2407; Gaz. vol. 157; p. 395.
Rail-joint. S. Lee. No. 967,530; Aug. 16; Sp. p. 3627; Gaz. vol. 157; p. 623.
Rail-joint. H. L. Moyer. No. 967,655; Aug. 16; Sp. p. 3864; Gaz. vol. 157; p. 663.
Rail-joint. J. Senior and H. R. Boots. No. 967,678; Aug. 16; Sp. p. 3910; Gaz. vol. 157; p. 671.
Rail-joint. W. P. and S. G. Thomson. No. 967,687; Aug. 16; Sp. p. 3926; Gaz. vol. 157; p. 674.
Rail-joint. E. E. Beeman. No. 968,317; Aug. 23; Sp. p. 5293; Gaz. vol. 157; p. 913.
Rail-joint. P. J. Patterson. No. 968,397; Aug. 23; Sp. p. 5455; Gaz. vol. 157; p. 940.
Rail-joint. W. P. and S. G. Thomson. No. 968,500; Aug. 23; Sp. p. 5664; Gaz. vol. 157; p. 976.
Rail-joint. W. P. and S. G. Thomson. No. 969,124; Aug. 30; Sp. p. 6988; Gaz. vol. 157; p. 1215.
Rail-joint. S. R. Conroy. No. 969,132; Aug. 30; Sp. p. 7007; Gaz. vol. 157; p. 1218.
Rail-joint. L. and W. A. McFadden. No. 969,648; Sept. 6; Sp. p. 1055; Gaz. vol. 158; p. 169.
Rail-joint. G. A. Williams. No. 969,679; Sept. 6; Sp. p. 1121; Gaz. vol. 158; p. 180.
Rail-joint. B. T. Martinez. No. 969,713; Sept. 6; Sp. p. 1178; Gaz. vol. 158; p. 191.
Rail-joint. P. O. Adams. No. 970,158; Sept. 13; Sp. p. 2160; Gaz. vol. 158; p. 368.
Rail-joint. P. O. Adams. No. 970,159; Sept. 13; Sp. p. 2162; Gaz. vol. 158; p. 369.
Rail-joint. J. R. Keller. No. 970,236; Sept. 13; Sp. p. 2348; Gaz. vol. 158; p. 396.
Rail-joint. G. and M. L. Bacon. No. 972,148; Oct. 11; Sp. p. 1370; Gaz. vol. 159; p. 250.
Rail-joint. W. P. and S. G. Thomson. No. 972,735; Oct. 11; Sp. p. 2670; Gaz. vol. 159; p. 453.
Rail-joint. W. L. Buckland. No. 972,993; Oct. 18; Sp. p. 3275; Gaz. vol. 159; p. 570.
Rail-joint. N. E. Rassico. No. 973,070; Oct. 18; Sp. p. 3437; Gaz. vol. 159; p. 595.
Rail-joint. O. Helsing. No. 973,193; Oct. 18; Sp. p. 3739; Gaz. vol. 159; p. 639.
Rail-joint. S. E. Nelson. No. 973,291; Oct. 18; Sp. p. 3926; Gaz. vol. 159; p. 672.

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Rail-joint. F. H. Lookabaugh. No. 973,948; Oct. 25; Sp. p. 5310; Gaz. vol. 159; p. 922.
Rail-joint. J. G. McMichael. No. 973,952; Oct. 25; Sp. p. 5317; Gaz. vol. 159; p. 923.
Rail-joint. L. and G. Dixon. No. 974,038; Oct. 25; Sp. p. 5506; Gaz. vol. 159; p. 954.
Rail-joint. A. L. Casady. No. 974,951; Nov. 8; Sp. p. 1985; Gaz. vol. 160; p. 327.
Rail-joint. W. P. and S. G. Thomson. No. 975,376; Nov. 8; Sp. p. 2917; Gaz. vol. 160; p. 470.
Rail-joint. A. D. Shaeffer. No. 975,899; Nov. 15; Sp. p. 4012; Gaz. vol. 160; p. 676.
Rail-joint. C. G. Mack. No. 976,272; Nov. 22; Sp. p. 4857; Gaz. vol. 160; p. 828.
Rail-joint. H. A. Christy. No. 976,985; Nov. 29; Sp. p. 6435; Gaz. vol. 160; p. 1098.
Rail-joint. C. Lakosky. No. 977,020; Nov. 29; Sp. p. 6511; Gaz. vol. 160; p. 1110.
Rail-joint. O. Payzant. No. 977,040; Nov. 29; Sp. p. 6546; Gaz. vol. 160; p. 1117.
Rail-joint. G. W. Robbins. No. 977,045; Nov. 29; Sp. p. 6555; Gaz. vol. 160; p. 1119.
Rail-joint. A. Daly. No. 977,171; Nov. 29; Sp. p. 6848; Gaz. vol. 160; p. 1163.
Rail-joint. C. C. Collins. No. 977,514; Dec. 6; Sp. p. 210; Gaz. vol. 161; p. 32.
Rail-joint. W. F. Johnson. No. 977,652; Dec. 6; Sp. p. 526; Gaz. vol. 161; p. 79.
Rail-joint. W. F. Johnson. No. 977,743; Dec. 6; Sp. p. 713; Gaz. vol. 161; p. 111.
Rail-joint. J. A. Bodkin. No. 978,546; Dec. 13; Sp. p. 2436; Gaz. vol. 161; p. 419.
Rail-joint. G. Soós. No. 978,671; Dec. 13; Sp. p. 2719; Gaz. vol. 161; p. 463.
Rail-joint. L. Doak. No. 978,711; Dec. 13; Sp. p. 2805; Gaz. vol. 161; p. 477.
Rail-joint. L. P. Locke. No. 979,015; Dec. 20; Sp. p. 3451; Gaz. vol. 161; p. 606.
Rail-joint. G. L. Hall. No. 979,478; Dec. 27; Sp. p. 4443; Gaz. vol. 161; p. 785.
Rail-joint. T. A. Chapman. No. 980,065; Dec. 27; Sp. p. 5722; Gaz. vol. 161; p. 984.
Rail-joint and nut-lock, Combination. H. H. Cruisé. No. 975,513; Nov. 15; Sp. p. 3201; Gaz. vol. 160; p. 545.
Rail-joint chair. H. Carmak. No. 962,312; June 21; Sp. p. 4352; Gaz. vol. 155; p. 751.
Rail-joint clamp. A. C. Munn. No. 951,694; Mar. 8; Sp. p. 2485; Gaz. vol. 152; p. 431.
Rail-joint, Compromise. V. C. Armstrong. No. 950,588; Mar. 1; Sp. p. 259; Gaz. vol. 152; p. 43.
Rail joint, Continuous-. H. E. Hoff. No. 952,904; Mar. 22; Sp. p. 4999; Gaz. vol. 152; p. 898.
Rail-joint, Insulated. W. P. and S. G. Thomson. No. 964,338; July 12; Sp. p. 2838; Gaz. vol. 156; p. 468.
Rail-joint, Insulated. L. Griffith. No. 969,856; Sept. 13; Sp. p. 1548; Gaz. vol. 158; p. 266.
Rail-joint, Insulated. E. C. Zimmermann. No. 970,869; Sept. 20; Sp. p. 3710; Gaz. vol. 158; p. 634.
Rail-joint, Insulated. C. F. Quincy. No. 972,471; Oct. 11; Sp. p. 2072; Gaz. vol. 159; p. 361.
Rail-joint lock. H. L. Mason. No. 954,120; Apr. 5; Sp. p. 880; Gaz. vol. 153; p. 153.
Rail-joint, One-piece. A. L. Stanford. No. 951,383; Mar. 8; Sp. p. 1878; Gaz. vol. 152; p. 328.
Rail joint, Steel-. W. Arndt. No. 965,429; July 26; Sp. p. 5250; Gaz. vol. 156; p. 898.
Rail-joint support. G. G. Floyd. No. 962,424; June 28; Sp. p. 4609; Gaz. vol. 155; p. 814.
Rail-joints, Compound fish-plate for. J. C. Cramp. No. 965,568; July 26; Sp. p. 5573; Gaz. vol. 156; p. 948.
Rail-joints, Means of forming. H. G. Gillmor. No. 970,810; Sept. 20; Sp. p. 3597; Gaz. vol. 158; p. 615.
Rail-joints, Splice-bar for. W. P. and S. G. Thomson. No. 960,237; May 31; Sp. p. 8237; Gaz. vol. 154; p. 1386.
Rail, Lap-joint T-iron. F. W. Becker. No. 968,314; Aug. 23; Sp. p. 5290; Gaz. vol. 157; p. 912.
Rail-laying apparatus. J. Reinehr. No. 948,023; Feb. 1; Sp. p. 503; Gaz. vol. 151; p. 82.
Rail-locking cam and brace for tie-plates. R. Law. No. 949,908; Feb. 22; Sp. p. 4488; Gaz. vol. 151; p. 801.
Rail-lubricating apparatus. A. C. Farley and W. B. McDonald. No. 954,383; Apr. 5; Sp. p. 1454; Gaz. vol. 153; p. 242.
Rail mounting, Guard-. L. R. Bishop. No. 954,919; Apr. 12; Sp. p. 2695; Gaz. vol. 153; p. 455.
Rail-retainer. J. Bradley. No. 955,315; Apr. 19; Sp. p. 3492; Gaz. vol. 153; p. 620.
Rail-retainer. T. J. Donovan. No. 958,103; May 17; Sp. p. 3615; Gaz. vol. 154; p. 609.
Rail sections, Boltless locking-body for connecting track-. A. M. Benjamin. No. 960,790; June 7; Sp. p. 1116; Gaz. vol. 155; p. 187.
Rail-spike. M. Topliff. No. 956,233; Apr. 26; Sp. p. 5535; Gaz. vol. 153; p. 966.
Rail-spike. J. F. Limberg and E. Koelling. No. 963,027; June 28; Sp. p. 5832; Gaz. vol. 155; p. 1021.
Rail-splice. W. F. Rutland, Sr. No. 972,927; Oct. 18; Sp. p. 3129; Gaz. vol. 159; p. 547.
Rail-straightener. B. Netahla, Jr. No. 960,682; June 7; Sp. p. 901; Gaz. vol. 155; p. 149.
Rail structure, Guard-. G. B. Taylor. No. 947,316; Jan. 25; Sp. p. 5133; Gaz. vol. 150; p. 867.
Rail structure, Guard-. G. B. Taylor. No. 947,317; Jan. 25; Sp. p. 5137; Gaz. vol. 150; p. 867.
Rail-support. W. Wilkens. No. 951,928; Mar. 15; Sp. p. 2995; Gaz. vol. 152; p. 542.
Rail-support. T. E. Vaughn. No. 961,917; June 21; Sp. p. 3484; Gaz. vol. 155; p. 617.
Rail support and brace. P. Poirier. No. 954,585; Apr. 12; Sp. p. 1897; Gaz. vol. 153; p. 338.
Rail support, Third-. L. W. Fox. No. 966,001; Aug. 2; Sp. p. 337; Gaz. vol. 157; p. 54.
Rail-support, Three-tie. G. G. Floyd. No. 962,423; June 28; Sp. p. 4608; Gaz. vol. 155; p. 814.
Rail-supporter. R. C. Smith. No. 967,848; Aug. 16; Sp. p. 4259; Gaz. vol. 157; p. 729.
Rail-supporting device. E. F. Butler, Sr. No. 950,366; Feb. 22; Sp. p. 5462; Gaz. vol. 151; p. 958.
Rail-supporting mechanism. R. D. Townsend. No. 970,139; Sept. 13; Sp. p. 2125; Gaz. vol. 158; p. 362.
Rail, Switch-. J. B. Strong. No. 951,205; Mar. 8; Sp. p. 1495; Gaz. vol. 152; p. 270.
Rail-switch. T. R. Duncan. No. 976,560; Nov. 22; Sp. p. 5487; Gaz. vol. 160; p. 927.
Rail, Third. C. A. Bluhm. No. 960,066; May 31; Sp. p. 7916; Gaz. vol. 154; p. 1329.
Rail-tie. C. Moyer. No. 952,925; Mar. 22; Sp. p. 5042; Gaz. vol. 152; p. 905.
Rail-tie. W. D. Williams. No. 960,130; May 31; Sp. p. 8032; Gaz. vol. 154; p. 1349.
Rail tie and fastening. W. P. Day. No. 949,926; Feb. 22; Sp. p. 4523; Gaz. vol. 151; p. 807.
Rail tie and fastening. W. F. Beck. No. 954,248; Apr. 5; Sp. p. 1176; Gaz. vol. 153; p. 196.
Rail tie and fastening. B. Wolhaupter. No. 957,022; May 3; Sp. p. 1136; Gaz. vol. 154; p. 179.
Rail-tie and rail-fastener. I. C. Catton. No. 971,118; Sept. 27; Sp. p. 4208; Gaz. vol. 158; p. 743.
Rail-tie fastener. G. L. Hindman. No. 949,034; Feb. 15; Sp. p. 2653; Gaz. vol. 151; p. 473.
Rail-tie fastening. B. W. Smith. No. 961,078; June 7; Sp. p. 1699; Gaz. vol. 155; p. 282.
Rail, Traction-. E. M. Boynton. No. 976,544; Nov. 22; Sp. p. 5453; Gaz. vol. 160; p. 921.
Rail, Transporter-. F. J. Gilman. No. 979,469; Dec. 27; Sp. p. 4428; Gaz. vol. 161; p. 783.
Rails and preventing the spreading thereof, Means for fastening. D. H. Martin, Jr. No. 976,816; Nov. 22; Sp. p. 5998; Gaz. vol. 160; p. 1013.
Rails, Anticreeper device for. W. L. De Remer. No. 960,283; June 7; Sp. p. 84; Gaz. vol. 155; p. 18.
Rails, Anticreeper for. L. J. Riegler. No. 946,736; Jan. 18; Sp. p. 3850; Gaz. vol. 150; p. 642.
Rails, Anticreeping device for. B. Wolhaupter. No. 945,068; Jan. 4; Sp. p. 129; Gaz. vol. 150; p. 22.
Rails, Anticreeping device for. B. Wolhaupter. No. 957,021; May 3; Sp. p. 1134; Gaz. vol. 154; p. 179.
Rails, Bonding. C. L. Cadle. No. 950,716; Mar. 1; Sp. p. 554; Gaz. vol. 152; p. 87.
Rails, Contact-shoe for third. F. Lacroix. No. 945,400; Jan. 4; Sp. p. 856; Gaz. vol. 150; p. 133.
Rails, Device for preventing the creeping of. J. T. Bluff. No. 970,418; Sept. 13; Sp. p. 2700; Gaz. vol. 158; p. 456.
Rails for the attachment of rail-bonds, Device for preparing. W. G. Stuart. No. 974,931; Nov. 8; Sp. p. 1935; Gaz. vol. 160; p. 319.
Rails, Splice-bar for. W. P. and S. G. Thomson. No. 960,238; May 31; Sp. p. 8240; Gaz. vol. 154; p. 1387.
Rails to metal ties, Fastening device for securing. C. P. Hammond. No. 960,543; June 7; Sp. p. 629; Gaz. vol. 155; p. 102.
Rails to ties, Machine for spiking. C. G. Smith. No. 976,513; Nov. 22; Sp. p. 5365; Gaz. vol. 160; p. 910.
Rails to ties, Mechanism for securing. W. Weber. No. 955,233; Apr. 19; Sp. p. 3324; Gaz. vol. 153; p. 593.
Railograph. J. H. Milburn. No. 952,922; Mar. 22; Sp. p. 5034; Gaz. vol. 152; p. 904.
Railway. C. B. Taylor and C. B. Voynow. No. 968,289; Aug. 23; Sp. p. 5238; Gaz. vol. 157; p. 902.
Railway. T. H. Wheless. No. 968,616; Aug. 30; Sp. p. 5912; Gaz. vol. 157; p. 1042.
Railway. C. B. Voynow and G. B. Taylor. No. 976,708; Nov. 22; Sp. p. 5766; Gaz. vol. 160; p. 976.
Railway, Aerial or suspended. W. L. Hamilton. No. 978,581; Dec. 13; Sp. p. 2533; Gaz. vol. 161; p. 432.
Railway and car and appliances therefor. J. B. Fowler. No. 961,293; June 14; Sp. p. 2148; Gaz. vol. 155; p. 385.
Railway and tramway track point. A. Gardner. No. 966,193; Aug. 2; Sp. p. 754; Gaz. vol. 157; p. 119.
Railway apparatus for burning grass and weeds. E. J. Achée. No. 945,898; Jan. 11; Sp. p. 1996; Gaz. vol. 150; p. 331.
Railway armored wood cross-tie. G. A. Case. No. 952,977; Mar. 22; Sp. p. 5137; Gaz. vol. 152; p. 923.
Railway attachment. R. E. Barron. No. 946,992; Jan. 18; Sp. p. 4439; Gaz. vol. 150; p. 731.
Railway automatic signal. R. Rochotsch. No. 960,706; June 7; Sp. p. 952; Gaz. vol. 155; p. 158.
Railway-ballast, Tamping-bar for tamping. G. H. Prentice. No. 973,563; Oct. 25; Sp. p. 4511; Gaz. vol. 159; p. 787.

Railway-beds, Method and construction for the prevention of sink-holes in. D. Marconi. No. 956,987; May 3; Sp. p. 1063; Gaz. vol. 154; p. 167.
Railway block-signal system, Automatic. L. O. Dickey. No. 950,376; Feb. 22; Sp. p. 5488; Gaz. vol. 151; p. 961.
Railway block-signaling system. O. M. Felix and G. Gray. No. 946,426; Jan. 11; Sp. p. 3195; Gaz. vol. 150; p. 514.
Railway block system. C. W. Spernader. No. 974,716; Nov. 1; Sp. p. 1448; Gaz. vol. 160; p. 223.
Railway bonding system, Electric-. G. H. Lindsey. No. 962,966; June 28; Sp. p. 5710; Gaz. vol. 155; p. 1001.
Railway-brake, Electric. J. N. Mahoney. No. 979,868; Dec. 27; Sp. p. 5318; Gaz. vol. 161; p. 920.
Railway-brake, Fluid-pressure. C. G. Frey. No. 945,087; Jan. 4; Sp. p. 171; Gaz. vol. 150; p. 28.
Railway-brake, Manually-operated. A. A. Searway. No. 970,402; Sept. 13; Sp. p. 2666; Gaz. vol. 158; p. 451.
Railway brake mechanisms, Automatic adjustment device for. R. Harrington and E. W. S. Young. No. 946,356; Jan. 11; Sp. p. 2952; Gaz. vol. 150; p. 490.
Railway-brakes, Means for operating. S. G. Neal and J. M. Childress. No. 961,310; June 14; Sp. p. 2182; Gaz. vol. 155; p. 391.
Railway braking apparatus, Pleasure-. J. A. Miller. No. 979,983; Dec. 27; Sp. p. 5538; Gaz. vol. 161; p. 956.
Railway cattle-guard. G. F. Wood. No. 947,268; Jan. 25; Sp. p. 4994; Gaz. vol. 150; p. 849.
Railway cattle-guard. A. Fisher. No. 958,865; May 24; Sp. p. 5348; Gaz. vol. 154; p. 898.
Railway cattle-guard. C. P. McKinney. No. 962,379; June 21; Sp. p. 4481; Gaz. vol. 155; p. 773.
Railway cattle-guard. E. G. McCarson and C. A. Bedell. No. 978,319; Dec. 13; Sp. p. 1956; Gaz. vol. 161; p. 341.
Railway construction. T. H. Wheless. No. 968,618; Aug. 30; Sp. p. 5919; Gaz. vol. 157; p. 1043.
Railway-coupling. A. Lewis. No. 948,765; Feb. 8; Sp. p. 2103; Gaz. vol. 151; p. 357.
Railway cross, bridge, and switch tie and fastening, Metallic. J. W. Clubb. No. 971,491; Sept. 27; Sp. p. 4938; Gaz. vol. 158; p. 864.
Railway cross-tie. J. Gearon, Sr. No. 963,542; July 5; Sp. p. 1162; Gaz. vol. 156; p. 177.
Railway cross-tie. W. H. J. Downey. No. 979,268; Dec. 20; Sp. p. 4033; Gaz. vol. 161; p. 693.
Railway cross-tie, Metallic. O. P. W. Michael. No. 945,040; Jan. 4; Sp. p. 66; Gaz. vol. 150; p. 13.
Railway-crossing. A. H. Havard. No. 950,287; Feb. 22; Sp. p. 5324; Gaz. vol. 151; p. 933.
Railway-crossing. E. McKee and B. H. Coursey. No. 955,346; Apr. 19; Sp. p. 3564; Gaz. vol. 153; p. 630.
Railway-crossing. P. P. Lewis. No. 957,225; May 10; Sp. p. 1577; Gaz. vol. 154; p. 278.
Railway-crossing. J. S. Smith. No. 959,893; May 31; Sp. p. 7499; Gaz. vol. 154; p. 1267.
Railway-crossing. B. E. Gallaspy and A. H. McCarty. No. 962,338; June 21; Sp. p. 4413; Gaz. vol. 155; p. 760.
Railway-crossing. F. Stitzel. No. 963,258; July 5; Sp. p. 597; Gaz. vol. 156; p. 83.
Railway-crossing. C. J. Griffith. No. 963,758; July 12; Sp. p. 1616; Gaz. vol. 156; p. 272.
Railway-crossing. J. H. Eymon. No. 967,179; Aug. 16; Sp. p. 2903; Gaz. vol. 157; p. 503.
Railway-crossing. J. A. Straley. No. 968,282; Aug. 23; Sp. p. 5225; Gaz. vol. 157; p. 900.
Railway-crossing. W. L. Affelder. No. 973,904; Oct. 25; Sp. p. 5233; Gaz. vol. 159; p. 907.
Railway-crossing. L. Alexander. No. 977,153; Nov. 29; Sp. p. 6804; Gaz. vol. 160; p. 1156.
Railway-crossing. H. G. Elfborg. No. 979,479; Dec. 27; Sp. p. 4445; Gaz. vol. 161; p. 785.
Railway-crossing frog. C. E. Ennis. No. 955,145; Apr. 19; Sp. p. 3125; Gaz. vol. 153; p. 561.
Railway-crossing gate. S. H. Hartwell. No. 964,911; July 19; Sp. p. 4175; Gaz. vol. 156; p. 696.
Railway-crossing gate. M. Reasoner. No. 977,548; Dec. 6; Sp. p. 308; Gaz. vol. 161; p. 45.
Railway crossing, Suspension-. F. O. Butler and S. C. Rockman. No. 945,749; Jan. 11; Sp. p. 1650; Gaz. vol. 150; p. 277.
Railway-curves, Device to prevent friction on. F. W. Burr. No. 960,812; June 7; Sp. p. 1162; Gaz. vol. 155; p. 194.
Railway, Electric. H. C. Brown and B. A. Harris. No. 955,753; Apr. 19; Sp. p. 4455; Gaz. vol. 153; p. 769.
Railway, Electric. G. P. Horton. No. 971,006; Sept. 20; Sp. p. 3959; Gaz. vol. 158; p. 677.
Railway, Electric. R. P. Williams. No. 977,354; Nov. 29; Sp. p. 7208; Gaz. vol. 160; p. 1226.
Railway electric signaling apparatus. W. J. Cook. No. 946,202; Jan. 11; Sp. p. 2621; Gaz. vol. 150; p. 435.
Railway, Elevated. W. C. Lawson. No. 949,020; Feb. 15; Sp. p. 2625; Gaz. vol. 151; p. 469.
Railway, Elevated. H. P. Hanson. No. 968,939; Aug. 30; Sp. p. 6611; Gaz. vol. 157; p. 1151.
Railway-engine for cars and locomotives. J. D. Donovan. No. 969,750; Sept. 6; Sp. p. 1284; Gaz. vol. 158; p. 206.
Railway freight-transfer station. J. M. Barrett. No. 976,140; Nov. 22; Sp. p. 4508; Gaz. vol. 160; p. 781.
Railway-frog. E. C. Price and G. S. Shaw. No. 946,560; Jan. 18; Sp. p. 3478; Gaz. vol. 150; p. 585.
Railway-frog. J. E. Lewis. No. 955,887; Apr. 26; Sp. p. 4775; Gaz. vol. 153; p. 845.
Railway-frog. J. E. Conley. No. 960,156; May 31; Sp. p. 8073; Gaz. vol. 154; p. 1357.
Railway-frog. C. W. Reinoehl and W. M. Henderson. No. 963,325; July 5; Sp. p. 728; Gaz. vol. 156; p. 105.
Railway-frog. C. W. Reinoehl and W. M. Henderson. No. 963,326; July 5; Sp. p. 731; Gaz. vol. 156; p. 105.
Railway-frog. A. Hollinger. No. 971,129; Sept. 27; Sp. p. 4227; Gaz. vol. 158; p. 746.
Railway frog and switch. A. L. McMaster. No. 947,752; Jan. 25; Sp. p. 6068; Gaz. vol. 150; p. 1012.
Railway frog and switch. J. M. Street. No. 947,766; Jan. 25; Sp. p. 6101; Gaz. vol. 150; p. 1017.
Railway-gate. J. T. Corrigan. No. 957,868; May 17; Sp. p. 2899; Gaz. vol. 154; p. 525.
Railway-gate. F. Clark. No. 970,305; Sept. 13; Sp. p. 2489; Gaz. vol. 158; p. 419.
Railway-gate. W. E. Geddes. No. 977,001; Nov. 29; Sp. p. 6471; Gaz. vol. 160; p. 1104.
Railway-gate, Automatic. J. W. Morrow. No. 951,019; Mar. 1; Sp. p. 1141; Gaz. vol. 152; p. 185.
Railway-hopper, Duplex. W. E. McPherson. No. 965,400; July 26; Sp. p. 5176; Gaz. vol. 156; p. 888.
Railway, Inclined. A. F. and A. T. Smith. No. 955,217; Apr. 19; Sp. p. 3285; Gaz. vol. 153; p. 587.
Railway indicator, Street-. O. J. Mortenson. No. 949,742; Feb. 15; Sp. p. 4087; Gaz. vol. 151; p. 709.
Railway-joint. J. R. Johnson. No. 946,698; Jan. 18; Sp. p. 3762; Gaz. vol. 150; p. 629.
Railway-joint. C. A. Bauder. No. 959,289; May 24; Sp. p. 6215; Gaz. vol. 154; p. 1038.
Railway-joint. S. Stephens. No. 960,428; June 7; Sp. p. 385; Gaz. vol. 155; p. 64.
Railway-joint. A. E. Stine. No. 969,122; Aug. 30; Sp. p. 6981; Gaz. vol. 157; p. 1215.
Railway-joint. L. A. Brown. No. 973,621; Oct. 25; Sp. p. 4639; Gaz. vol. 159; p. 806.
Railway joint-chair. P. Radoman. No. 971,308; Sept. 27; Sp. p. 4598; Gaz. vol. 158; p. 805.
Railway joint chair or coupling. D. McGill. No. 955,533; Apr. 19; Sp. p. 3954; Gaz. vol. 153; p. 694.
Railway-lantern. G. H. Rolfes. No. 958,319; May 17; Sp. p. 4203; Gaz. vol. 154; p. 686.
Railway-motor. S. M. Kintner. No. 947,338; Jan. 25; Sp. p. 5193; Gaz. vol. 150; p. 875.
Railway paving plants, Floor-frame for. G. Merriman. No. 946,907; Jan. 18; Sp. p. 4278; Gaz. vol. 150; p. 703.
Railway pile-drivers, &c., Turn-table mechanism for. S. L. G. Knox. No. 975,048; Nov. 8; Sp. p. 2204; Gaz. vol. 160; p. 359.
Railway power transmission. A. S. Parsons. No. 970,543; Sept. 20; Sp. p. 2990; Gaz. vol. 158; p. 520.
Railway-rail. C. H. Day. No. 949,793; Feb. 22; Sp. p. 4210; Gaz. vol. 151; p. 760.
Railway-rail. S. H. McCarty and J. T. Hindman. No. 967,414; Aug. 16; Sp. p. 3390; Gaz. vol. 157; p. 584.
Railway-rail. M. P. Murray. No. 975,271; Nov. 8; Sp. p. 2693; Gaz. vol. 160; p. 435.
Railway-rail anchor. D. H. Foreman. No. 954,409; Apr. 5; Sp. p. 1507; Gaz. vol. 153; p. 250.
Railway-rail anchor. G. N. Buzby and W. S. Hukill. No. 975,747; Nov. 15; Sp. p. 3702; Gaz. vol. 160; p. 624.
Railway-rail and joint therefor. J. Murphy. No. 957,789; May 10; Sp. p. 2740; Gaz. vol. 154; p. 469.
Railway-rail and nut-lock for fish-plate bolts. A. P. Finley. No. 980,146; Dec. 27; Sp. p. 5922; Gaz. vol. 161; p. 1011.
Railway-rail-antispreading device. T. B. Lindsley. No. 961,623; June 14; Sp. p. 2861; Gaz. vol. 155; p. 494.
Railway-rail bolt. R. L. Tipton. No. 978,235; Dec. 13; Sp. p. 1776; Gaz. vol. 161; p. 311.
Railway-rail chair. W. F. Gould. No. 945,779; Jan. 11; Sp. p. 1714; Gaz. vol. 150; p. 288.
Railway-rail fastener. J. B. Barnes. No. 963,031; July 5; Sp. p. 8; Gaz. vol. 156; p. 4.
Railway-rail fastener. J. M. Blake. No. 974,635; Nov. 1; Sp. p. 1274; Gaz. vol. 160; p. 195.
Railway-rail fastener. C. Weaner. No. 978,798; Dec. 13; Sp. p. 2972; Gaz. vol. 161; p. 503.
Railway-rail-fastening device. L. D. Chabut. No. 966,087; Aug. 2; Sp. p. 519; Gaz. vol. 157; p. 84.
Railway-rail fastening for railway-ties. R. T. Kirkland. No. 967,134; Aug. 9; Sp. p. 2808; Gaz. vol. 157; p. 461.
Railway-rail-fish-plate chair. F. W. Pool. No. 967,666; Aug. 16; Sp. p. 3888; Gaz. vol. 157; p. 667.
Railway-rail joint. N. H. Williamson. No. 946,950; Jan. 18; Sp. p. 4354; Gaz. vol. 150; p. 716.
Railway-rail joint. H. Nablefeld. No. 951,690; Mar. 8; Sp. p. 2480; Gaz. vol. 152; p. 430.
Railway-rail joint. R. C. Dole and E. Ellis. No. 958,733; May 24; Sp. p. 5020; Gaz. vol. 154; p. 850.
Railway-rail joint. A. C. Richey. No. 961,461; June 14; Sp. p. 2507; Gaz. vol. 155; p. 441.
Railway-rail joint. J. A. Poirier. No. 968,408; Aug. 23; Sp. p. 5474; Gaz. vol. 157; p. 943.
Railway-rail joint. S. Ferris. No. 976,860; Nov. 29; Sp. p. 6121; Gaz. vol. 160; p. 1054.
Railway-rail joint. J. E. Leonard No. 978,314; Dec. 13; Sp. p. 1949; Gaz. vol. 161; p. 340.

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Railway-rail joint, Insulated. K. Kohn. (Reissue.) No. 13,079; Jan. 25; Sp. p. 6131; Gaz. vol. 150; p. 1022.
Railway rail or track. E. Trainer. No. 946,411; Jan. 11; Sp. p. 3167; Gaz. vol. 150; p. 510.
Railway-rail plate. R. A. Whatley. No. 972,044; Oct. 4; Sp. p. 1167; Gaz. vol. 159; p. 197.
Railway-rail splice. I. N. Prenovich. No. 945,415; Jan. 4; Sp. p. 889; Gaz. vol. 150; p. 138.
Railway-rail splice. I. N. Prenovich. No. 945,598; Jan. 4; Sp. p. 1264; Gaz. vol. 150; p. 197.
Railway-rail support. E. J. Clark. No. 945,376; Jan. 4; Sp. p. 809; Gaz. vol. 150; p. 125.
Railway-rail support, Concrete. W. Laudahn. No. 950,930; Mar. 1; Sp. p. 978; Gaz. vol. 152; p. 157.
Railway road-bed. J. E. Snelling. No. 964,190; July 12; Sp. p. 2531; Gaz. vol. 156; p. 417.
Railway road-bed. R. Mobley. No. 966,465; Aug. 9; Sp. p. 1312; Gaz. vol. 157; p. 234.
Railway-road-bed construction. C. R. Holden. No. 953,089; Mar. 29; Sp. p. 5395; Gaz. vol. 152; p. 989.
Railway-road-bed construction. C. R. Holden. No. 961,233; June 14; Sp. p. 2012; Gaz. vol. 155; p. 363.
Railway-road-bed construction. C. R. Holden. No. 964,516; July 19; Sp. p. 3227; Gaz. vol. 156; p. 557.
Railway-road-bed construction. C. R. Holden. No. 964,517; July 19; Sp. p. 3232; Gaz. vol. 156; p. 558.
Railway-road-bed construction. C. R. Holden. No. 968,155; Aug. 23; Sp. p. 4953; Gaz. vol. 157; p. 855.
Railway-road-bed construction. C. R. Holden. No. 968,156; Aug. 23; Sp. p. 4957; Gaz. vol. 157; p. 856.
Railway, Rope-. R. Pfaffenbach. No. 959,595; May 31; Sp. p. 6861; Gaz. vol. 154; p. 1167.
Railway safety device, Pleasure-. J. A. Miller. No. 979,984; Dec. 27; Sp. p. 5540; Gaz. vol. 161; p. 957.
Railway safety switch and signal device. H. M. Abernethy. No. 947,219; Jan. 25; Sp. p. 4883; Gaz. vol 150; p. 833.
Railway safety system, Electric. A. Casale. No. 971,249; Sept. 27; Sp. p. 4501; Gaz. vol. 158; p. 787.
Railway safety-track. C. R. Howard. No. 979,494; Dec. 27; Sp. p. 4477; Gaz. vol. 161; p. 791.
Railway shock-absorber, Street-. F. Bex. No. 965,794; July 26; Sp. p. 6051; Gaz. vol. 156; p. 1026.
Railway-signal. J. D. Roett. No. 964,814; July 19; Sp. p. 3974; Gaz. vol. 156; p. 661.
Railway-signal. J. J. Cozzens, C. F. Estwick, and G. S. Tiffany. No. 974,362; Nov. 1; Sp. p. 652; Gaz. vol. 160; p. 97.
Railway-signal. F. L. Dodgson. No. 974,864; Nov. 8; Sp. p. 1774; Gaz. vol. 160; p. 296.
Railway-signal, Automatic electric. J. Friedlander and M. Pecar. No. 951,640; Mar. 8; Sp. p. 2389; Gaz. vol. 152; p. 414.
Railway-signal, Automatic electric. W. Tullock. No. 953,109; Mar. 29; Sp. p. 5450; Gaz. vol. 152; p. 996.
Railway-signal, Electric. W. Kirkpatrick and F. W. Van Tuyl. No. 950,623; Mar. 1; Sp. p. 340; Gaz. vol 152; p. 55.
Railway signal-fusee. I. Niditch. No. 955,671; Apr. 19; Sp. p 4284; Gaz. vol. 153; p. 741.
Railway-signal-operating apparatus. W. K. Howe. No. 969,281; Sept. 6; Sp. p. 273; Gaz. vol. 158; p. 45.
Railway signaling apparatus. P. H. Shue. No. 965,028; July 19; Sp. p. 4395; Gaz. vol. 156; p. 733.
Railway signaling device. P. H. Shue. No. 964,569; July 19; Sp. p. 3375; Gaz. vol. 156; p. 576.
Railway signaling system. P. Utne. No. 953,243; Mar. 29; Sp. p. 5734; Gaz. vol. 152; p. 1039.
Railway signaling system. L. F. Howard. No. 955,402; Apr. 19; Sp. p. 3694; Gaz. vol. 153; p. 649.
Railway signaling system. J. A. Jones. No. 974,800; Nov. 8; Sp. p. 1633; Gaz. vol. 160; p. 274.
Railway signaling system. A. C. Mather. No. 978,180; Dec. 13; Sp. p. 1666; Gaz. vol. 161; p. 292.
Railway-spike. H. Hadler. No. 945,452; Jan. 4; Sp. p. 952; Gaz. vol. 150; p. 650.
Railway-spike. W. D. F. Jarvis. No. 945,543; Jan. 4; Sp. p. 1158; Gaz. vol. 150; p. 179.
Railway-spike. J. Dellwo. No. 947,887; Feb. 1; Sp. p. 236; Gaz. vol. 151; p. 39.
Railway-spike. L. E. Campbell. No. 950,040; Feb. 22; Sp. p. 4827; Gaz. vol. 151; p. 848.
Railway-spike. D. M. Lipscomb. No. 956,378; Apr. 26; Sp. p. 5841; Gaz. vol. 153; p. 1015.
Railway-spike. R. A. Rossmeisl. No. 958,546; May 17; Sp. p. 4652; Gaz. vol. 154; p. 764.
Railway-spike. O. J. McKnight. No. 963,312; July 5; Sp. p. 699; Gaz. vol. 156; p. 100.
Railway-spike. A. L. Simon. No. 963,330; July 5; Sp. p. 739; Gaz. vol. 156; p. 106.
Railway-spike. J. Defenbaugh. No. 968,544; Aug. 30; Sp. p. 5772; Gaz. vol. 157; p. 1016.
Railway-spike. W. Gronke and W. T. Rouse. No. 977,795; Dec. 6; Sp. p. 823; Gaz. vol. 161; p. 128.
Railway-spreader. O. F. Jordan. No. 963,773; July 12; Sp. p. 1646; Gaz. vol. 156; p. 277.
Railway starting apparatus, Pleasure-. J. A. Miller. No. 979,875; Dec. 27; Sp. p. 5328; Gaz. vol. 161; p. 922.
Railway structure. C. W. Reinoehl and B. L. Weaver. No. 955,284; Apr. 19; Sp. p. 3425; Gaz. vol. 153; p. 609.
Railway structure, Suspension-. F. O. Butler and S. C. Rockman. No. 945,751; Jan. 11; Sp. p. 1654; Gaz. vol. 150; p. 278.
Railway structures, Rail connection for movable. W. A. King. No. 955,809; Apr. 19; Sp. p. 4560; Gaz. vol. 153; p. 788.
Railway-switch. D. A. York. No. 945,147; Jan. 4; Sp. p. 277; Gaz. vol. 150; p. 49
Railway-switch. M. S. Farmer. No. 945,156; Jan. 4; Sp. p. 302; Gaz. vol. 150; p. 52.
Railway-switch. A. and C. Heim. No. 949,120; Feb. 15; Sp. p. 2828; Gaz. vol. 151; p. 500.
Railway-switch. S. L. Shellenberger. No. 949,916; Feb. 22; Sp. p. 4507; Gaz. vol. 151; p. 804.
Railway-switch. J. F. Schmidt. No. 949,964; Feb. 22; Sp. p. 4598; Gaz. vol. 151; p. 821.
Railway-switch. R. E. Garverich. No. 950,532; Mar. 1; Sp. p. 149; Gaz. vol. 152; p. 25.
Railway-switch. A. G. Gones. No. 953,605; Mar. 29; Sp. p. 6511; Gaz. vol. 152; p. 1163.
Railway-switch. J. R. Merritt. No. 956,644; May 3; Sp. p. 295; Gaz. vol. 154; p. 49.
Railway-switch. G. Shimp and I. H. Wilton. No. 957,115; May 3; Sp. p. 1313; Gaz. vol. 154; p. 209.
Railway-switch. F. Bayusz and V. Kovács. No. 959,421; May 24; Sp. p. 6461; Gaz. vol. 154; p. 1082.
Railway-switch. R. P. Kiblinger. No. 959,549; May 31; Sp. p. 6773; Gaz. vol. 154; p. 1152.
Railway-switch. C. B. Van Camp. No. 968,293; Aug. 23; Sp. p. 5249; Gaz. vol. 157; p. 903.
Railway-switch. F. Malone. No. 970,343; Sept. 13; Sp. p. 2555; Gaz. vol. 158; p. 431.
Railway-switch. F. P. Ahman. No. 971,236; Sept. 27; Sp. p. 4473; Gaz. vol. 158; p. 783.
Railway-switch. C. C. Johnson. No. 972,866; Oct. 18; Sp. p. 2953; Gaz. vol. 159; p. 523.
Railway-switch. W. F. Edwards. No. 975,517; Nov. 15; Sp. p. 3211; Gaz. vol. 160; p. 547.
Railway-switch. J. F. Yoho, D. O'Neil, and J. L. Kiester. No. 975,595; Nov. 15; Sp. p. 3376; Gaz. vol. 160; p. 573.
Railway-switch. H. C. Mead. No. 977,747; Dec. 6; Sp. p. 719; Gaz. vol. 161; p. 113.
Railway switch and crossing, Overhead. H. H. Tunis. No. 955,228; Apr. 19; Sp. p. 3311; Gaz. vol. 153; p. 591.
Railway switch and frog. A. M. Threewits. No. 967,268; Aug. 16; Sp. p. 3075; Gaz. vol. 157; p. 533.
Railway-switch and operating means therefor. H. R. and E. B. Boyer. No. 946,328; Jan. 11; Sp. p. 2899; Gaz. vol. 150; p. 480.
Railway-switch, Automatic. J. E. Wright. No. 950,254; Feb. 22; Sp. p. 5258; Gaz. vol. 151; p. 922.
Railway-switch, Automatic. A. A. Moore. No. 957,699; May 10; Sp. p. 2541; Gaz. vol. 154; p. 440.
Railway-switch, Automatic. A. L. Pipes. No. 958,531; May 17; Sp. p. 4624; Gaz. vol. 154; p. 759.
Railway-switch, Automatic. E. Howard. No. 960,017; May 31; Sp. p. 7793; Gaz. vol. 154; p. 1311.
Railway-switch, Automatic. C. E. Brandfass. No. 962,739; June 28; Sp. p. 5287; Gaz. vol. 155; p. 923.
Railway-switch, Automatic. A. J. Jabalquinto. No. 966,212; Aug. 2; Sp. p. 800; Gaz. vol. 157; p. 126.
Railway-switch, Automatic. M. M. Fernandez. No. 974,560; Nov. 1; Sp. p. 1122; Gaz. vol. 160; p. 169.
Railway-switch, Automatic. E. Howard. No. 979,166; Dec. 20; Sp. p. 3810; Gaz. vol. 161; p. 660.
Railway-switch device, Automatic. R. Y. Partida. No. 963,642; July 5; Sp. p. 1362; Gaz. vol. 156; p. 211.
Railway-switch device, Automatic. R. I. Partida. No. 978,639; Dec. 13; Sp. p. 2662; Gaz. vol. 161; p. 453.
Railway switch, Electric-. H. W. Sheehy. No. 949,404; Feb. 15; Sp. p. 3427; Gaz. vol. 151; p. 599.
Railway-switch electric-circuit controller. G. M. Thompson. No. 975,585; Nov. 15; Sp. p. 3361; Gaz. vol. 160; p. 570.
Railway-switch foot-guard. T. A. Peterson. No. 965,653; July 26; Sp. p. 5750; Gaz. vol. 156; p. 978.
Railway-switch lock. F. C. Brown. No. 950,471; Mar. 1; Sp. p. 6; Gaz. vol. 152; p. 4.
Railway-switch lock. C. P. Knox. No. 976,082; Nov. 15; Sp. p. 4350; Gaz. vol. 160; p. 739.
Railway switch-machine. H. M. Abernethy. No. 959,039; May 24; Sp. p. 5693; Gaz. vol. 154; p. 956.
Railway switch mechanism. G. P. Segraves. No. 970,653; Sept. 20; Sp. p. 3241; Gaz. vol. 158; p. 558.
Railway switch mechanism, Automatic self-closing. H. B. Noble. No. 959,582; May 31; Sp. p. 6832; Gaz. vol. 154; p. 1163.
Railway-switch-operating device. E. H. Whitaker. No. 945,655; Jan. 4; Sp. p. 1394; Gaz. vol. 150; p. 217.
Railway - switch - operating device, Street-. C. O'Donnell. No. 966,116; Aug. 2; Sp. p. 574; Gaz. vol. 157; p. 94.
Railway - switch - operating mechanism. S. L. Batchelor. No. 966,072; Aug. 2; Sp. p. 494; Gaz. vol. 157; p. 79.
Railway-switch-operating mechanism. E. D. Rose. No. 967,059; Aug. 9; Sp. p. 2643; Gaz. vol. 157; p. 434.
Railway-switch rails, Renewing worn. C. W. Reinoehl and B. L. Weaver. No. 964,186; July 12; Sp. p. 2524; Gaz. vol. 156; p. 416.
Railway-switch safety appliance. J. W. McManama. No. 966,848; Aug. 9; Sp. p. 2206; Gaz. vol. 157; p. 363.

Railway-switch safety-lock. J. R. McKinnis. No. 977,116; Nov. 29; Sp. p. 6720; Gaz. vol. 160; p. 1144.
Railway-switch signal. F. L. Tapia. No. 967,855; Aug. 16; Sp. p. 4269; Gaz. vol. 157; p. 731.
Railway-switch stand. A. L. Pipes. No. 976,210; Nov. 22; Sp. p. 4674; Gaz. vol. 160; p. 805.
Railway-switch stand. C. Partington. No. 977,833; Dec. 6; Sp. p. 900; Gaz. vol. 161; p. 142.
Railway-switch structure. F. H. Ellis. No. 976,056; Nov. 15; Sp. p. 4303; Gaz. vol. 160; p. 730.
Railway switch, Suspension-. F. O. Butler and S. C. Rockman. No. 945,752; Jan. 11; Sp. p. 1656; Gaz. vol. 150; p. 278.
Railway switch-thrower, Electric-. J. A. Posey. No. 950,210; Feb. 22; Sp. p. 5167; Gaz. vol. 151; p. 906.
Railway-switches, Combined signal and lock for. T. B. Ashford. No. 948,266; Feb. 1; Sp. p. 987; Gaz. vol. 151; p. 163.
Railway-switches, Lever for. J. Leith. No. 952,076; Mar. 15; Sp. p. 3271; Gaz. vol. 152; p. 589.
Railway-switches, Means for operating detector-bars for. H. Gust. No. 967,369; Aug. 16; Sp. p. 3283; Gaz. vol. 157; p. 568.
Railway-switches, trap-doors, &c., Trip device for operating. F. M. Evans. No. 947,896; Feb. 1; Sp. p. 255; Gaz. vol. 151; p. 41.
Railway system. E. Mittag. No. 968,384; Aug. 23; Sp. p. 5427; Gaz. vol. 157; p. 936.
Railway system. P. Ziron. No. 975,103; Nov. 8; Sp. p. 2315; Gaz. vol. 160; p. 378.
Railway system. E. M. Boynton. No. 976,628; Nov. 22; Sp. p. 5617; Gaz. vol. 160; p. 950.
Railway system and car or vehicle therefor, Funicular-. L. Torres y Quevedo. No. 979,228; Dec. 20; Sp. p. 3946; Gaz. vol. 161; p. 681.
Railway system, Electric-. E. W. Radius. No. 954,342; Apr. 5; Sp. p. 1379; Gaz. vol. 153; p. 229.
Railway system, Electric-. F. E. Case. No. 959,919; May 31; Sp. p. 7558; Gaz. vol. 154; p. 1276.
Railway tamping-machine. J. McClellan. No. 967,033; Aug. 9; Sp. p. 2592; Gaz. vol. 157; p. 426.
Railway, Third-rail electric. I. L. Edwards. No. 952,004; Mar. 15; Sp. p. 3139; Gaz. vol. 152; p. 565.
Railway-tie. W. T. Brister. No. 945,215; Jan. 4; Sp. p. 430; Gaz. vol. 150; p. 72.
Railway-tie. J. Booth. No. 945,906; Jan. 11; Sp. p. 2010; Gaz. vol. 150; p. 334.
Railway-tie. J. S. Miller. No. 948,236; Feb. 1; Sp. p. 933; Gaz. vol. 151; p. 153.
Railway-tie. H. M. Levinson. No. 948,589; Feb. 8; Sp. p. 1716; Gaz. vol. 151; p. 297.
Railway-tie. J. R. Sneed. No. 950,146; Feb. 22; Sp. p. 5020; Gaz. vol. 151; p. 883.
Railway-tie. W. A. Stephens. No. 950,308; Feb. 22; Sp. p. 5360; Gaz. vol. 151; p. 941.
Railway-tie. D. C. Funcheon and C. E. Olsen. No. 950,322; Feb. 22; Sp. p. 5387; Gaz. vol. 151; p. 946.
Railway-tie. C. E. Highbarger. No. 950,327; Feb. 22; Sp. p. 5395; Gaz. vol. 151; p. 947.
Railway-tie. A. S. Topping. No. 950,970; Mar. 1; Sp. p. 1064; Gaz. vol. 152; p. 170.
Railway-tie. W. W. Hill. No. 951,118; Mar. 8; Sp. p. 1323; Gaz. vol. 152; p. 242.
Railway-tie. D. Borth, Sr. No. 951,230; Mar. 8; Sp p. 1549; Gaz. vol. 152; p. 278.
Railway-tie. J. Hornung. No. 951,277; Mar. 8; Sp. p. 1652; Gaz. vol. 152; p. 293.
Railway-tie. J. E. Weems. No. 952,057; Mar. 15; Sp. p. 3241; Gaz. vol. 152; p. 583.
Railway-tie. J. R. McGuire. No. 952,342; Mar. 15; Sp. p. 3794; Gaz. vol. 152; p. 679.
Railway-tie. H. S. Rogers. No. 952,361; Mar. 15; Sp. p. 3829; Gaz. vol. 152; p. 684.
Railway-tie. A. Traliot. No. 952,693; Mar. 22; Sp. p. 4554; Gaz. vol. 152; p. 827.
Railway-tie. J. Whitehead. No. 952,718; Mar. 22; Sp. p. 4614; Gaz. vol. 152; p. 836.
Railway-tie. L. S. Flatau. No. 953,602; Mar. 29; Sp. p. 6504; Gaz. vol. 152; p. 1162.
Railway-tie. G. H. Martin. No. 954,000; Apr. 5; Sp. p. 631; Gaz. vol. 153; p. 112.
Railway-tie. H. S. Rice. No. 954,345; Apr. 5; Sp. p. 1387; Gaz. vol. 153; p. 230.
Railway-tie. F. H. Miller. No. 955,345; Apr. 19; Sp. p. 3562; Gaz. vol. 153; p. 630.
Railway-tie. F. H. Miller. No. 955,419; Apr. 19; Sp. p. 3724; Gaz. vol. 153; p. 654.
Railway-tie. D. R. Will. No. 955,928; Apr. 26; Sp. p. 4853; Gaz. vol. 153; p. 858.
Railway-tie. F. E. Davidson. No. 956,045; Apr. 26; Sp. p. 5101; Gaz. vol. 153; p. 900.
Railway-tie. F. Matějka. No. 956,537; May 3; Sp. p. 59; Gaz. vol. 154; p. 13.
Railway-tie. J. P. Boogher. No. 956,622; May 3; Sp. p. 246; Gaz. vol. 154; p. 42.
Railway-tie. J. B. McMillan. No. 957,081; May 3; Sp. p. 1250; Gaz. vol. 154; p. 198.
Railway-tie. F. O. Blair. No. 957,841; May 10; Sp. p. 2830; Gaz. vol. 154; p. 486.
Railway-tie. J. M. Cleary. No. 958,226; May 17; Sp. p. 3862; Gaz. vol. 154; p. 652.
Railway-tie. J. A. Byers. No. 958,691; May 17; Sp. p. 4931; Gaz. vol. 154; p. 810.
Railway-tie. C. A. Olson. No. 959,065; May 24; Sp. p. 5757; Gaz. vol. 154; p. 965.
Railway-tie. T. L. Everett. No. 959,490; May 31; Sp. p. 6641; Gaz. vol. 154; p. 1132.
Railway-tie. E. M. Christensen and O. H. Jensen. No. 960,273; June 7; Sp. p. 66; Gaz. vol. 155; p. 14.
Railway-tie. F. Godward. No. 961,294; June 14; Sp. p. 2157; Gaz. vol. 155; p. 385.
Railway-tie. J. P. Boogher. No. 961,478; June 14; Sp. p. 2551; Gaz. vol. 155; p. 446.
Railway-tie. V. E. Randall and G. A. Hoeltzel. No. 962,588; June 28; Sp. p. 4978; Gaz. vol. 155; p. 871.
Railway-tie. J. B. Martin and E. W. Katzer. No. 962,908; June 28; Sp. p. 5610; Gaz. vol. 155; p. 982.
Railway-tie. C. R. Holden. No. 964,515; July 19; Sp. p. 3224; Gaz. vol. 156; p. 557.
Railway-tie. E. F. Davis. No. 966,531; Aug. 9; Sp. p. 1501; Gaz. vol. 157; p. 257.
Railway-tie. R. Olsen. No. 967,043; Aug. 9; Sp. p. 2620; Gaz. vol. 157; p. 429.
Railway-tie. M. J. Dowling. No. 967,176; Aug. 16; Sp. p. 2898; Gaz. vol. 157; p. 502.
Railway-tie. F. B. Huckstep. No. 968,515; Aug. 23; Sp. p. 5695; Gaz. vol. 157; p. 981.
Railway-tie. B. F. Campbell. No. 969,459; Sept. 6; Sp. p. 638; Gaz. vol. 158; p. 102.
Railway-tie. M. R. Wharram. No. 969,758; Sept. 6; Sp. p. 1301; Gaz. vol. 158; p. 209.
Railway-tie. C. Livingood. No. 971,132; Sept. 27; Sp. p. 4231; Gaz. vol. 158; p. 747.
Railway-tie. J. Dematteis. No. 971,256; Sept. 27; Sp. p. 4512; Gaz. vol. 158; p. 789.
Railway-tie. H. J. Wessels. No. 972,303; Oct. 11; Sp. p. 1725; Gaz. vol. 159; p. 302.
Railway-tie. W. W. Green. No. 972,444; Oct. 11; Sp. p. 2001; Gaz. vol. 159; p. 352.
Railway-tie. L. S. Flatau. No. 972,609; Oct. 11; Sp. p. 2400; Gaz. vol. 159; p. 410.
Railway-tie. A. Hawley. No. 972,694; Oct. 11; Sp. p. 2573; Gaz. vol. 159; p. 438.
Railway-tie. A. Clark. No. 972,818; Oct. 18; Sp. p. 2841; Gaz. vol. 159; p. 506.
Railway-tie. J. Heinonen. No. 972,857; Oct. 18; Sp. p. 2935; Gaz. vol. 159; p. 521.
Railway-tie. T. E. McCormick. No. 972,890; Oct. 18; Sp. p. 3024; Gaz. vol. 159; p. 534.
Railway-tie. J. M. Weisel. No. 974,728; Nov. 1; Sp. p. 1473; Gaz. vol. 160; p. 227.
Railway-tie. G. C. Green. No. 974,788; Nov. 8; Sp. p. 1610; Gaz. vol. 160; p. 270.
Railway-tie. E. L. Tschirch. No. 975,002; Nov. 8; Sp. p. 2114; Gaz. vol. 160; p. 344.
Railway-tie. J. J. O'Donnell. No. 976,683; Nov. 22; Sp. p. 5719; Gaz. vol. 160; p. 968.
Railway-tie. D. Cline. No. 977,512; Dec. 6; Sp. p. 206; Gaz. vol. 161; p. 32.
Railway-tie. L. L. Van Horn. No. 978,413; Dec. 13; Sp. p. 2156; Gaz. vol. 161; p. 375.
Railway-tie. W. H. Morris. No. 979,785; Dec. 27; Sp. p. 5122; Gaz. vol. 161; p. 891.
Railway-tie. W. T. Shimp. No. 980,016; Dec. 27; Sp. p. 5602; Gaz. vol. 161; p. 968.
Railway-tie and clamp. A. M. Wagner. No. 955,724; Apr. 19; Sp. p. 4404; Gaz. vol. 153; p. 759.
Railway-tie and fastener. R. S. Ullrich. No. 952,591; Mar. 22; Sp. p. 4324; Gaz. vol. 152; p. 792.
Railway-tie and fastener. E. L. Horstmann. No. 953,665; Mar. 29; Sp. p. 6638; Gaz. vol. 152; p. 1184.
Railway-tie and fastener. V. J. Miller. No. 978,470; Dec. 13; Sp. p. 2268; Gaz. vol. 161; p. 393.
Railway-tie and fastener. H. S. Isham. No. 978,890; Dec. 20; Sp. p. 3152; Gaz. vol. 161; p. 560.
Railway-tie and fastener, Metallic. C. J. Burch. No. 980,058; Dec. 27; Sp. p. 5712; Gaz. vol. 161; p. 982.
Railway-tie and fastening. W. E. Clark. No. 958,225; May 17; Sp. p. 3861; Gaz. vol. 154; p. 652.
Railway-tie and rail-clamp, Metallic. J. Galambos. No. 975,520; Nov. 15; Sp. p. 3217; Gaz. vol. 160; p. 548.
Railway-tie and rail-fastener. H. M. Gaul, Jr. No. 958,389; May 17; Sp. p. 4351; Gaz. vol. 154; p. 710.
Railway-tie and rail-fastener, Combined. J. W. Williamson. No. 966,284; Aug. 2; Sp. p. 939; Gaz. vol. 157; p. 149.
Railway-tie and rail-fastening. W. R. Gorrell. No. 948,877; Feb. 8; Sp. p. 2311; Gaz. vol. 151; p. 393.
Railway-tie and rail-fastening. W. P. Day. No. 969,611; Sept. 6; Sp. p. 986; Gaz. vol. 158; p. 157.
Railway-tie and rail-fastening means. J. J. O'Donnell. No. 948,242; Feb. 1; Sp. p. 943; Gaz. vol. 151; p. 155.
Railway-tie and track-fastener, Combined. J. A. Hyle. No. 966,334; Aug. 2; Sp. p. 1013; Gaz. vol. 157; p. 164.
Railway-tie, Composite. B. F. Wise. No. 963,196; July 5; Sp. p. 428; Gaz. vol. 156; p. 61.
Railway-tie, Concrete. R. J. D. Cowan. No. 976,726; Nov. 22; Sp. p. 5803; Gaz. vol. 160; p. 983.
Railway-tie, Concrete-metal. L. R. Gifford. No. 975,855; Nov. 15; Sp. p. 3922; Gaz. vol. 160; p. 661.
Railway-tie fastening. A. R. Young. No. 967,596; Aug. 16; Sp. p. 3755; Gaz. vol. 157; p. 645.

Alphabetical list of inventions—Continued.

Railway-tie, Metal. F. N. Brooker and B. H. Davidson. No. 952,976; Mar. 22; Sp. p. 5136; Gaz. vol. 152; p. 922
Railway-tie, Metal. J. H. Penney. No. 956,779; May 3; Sp. p. 596; Gaz. vol. 154; p. 95.
Railway-tie, Metal. J. Wettstein. No. 959,902; May 31; Sp. p. 7515; Gaz. vol. 154; p. 1270.
Railway-tie, Metal. G. E. Hall. No. 961,070; June 7; Sp. p. 1668; Gaz. vol. 155; p. 279.
Railway-tie, Metal. J. Heinonen. No. 977,798; Dec. 6; Sp. p. 828; Gaz. vol. 161; p. 129.
Railway-tie, Metallic. E. H. Bell. No. 945,364; Jan. 4; Sp. p. 783; Gaz. vol. 150; p. 120.
Railway-tie, Metallic. W. H. Shear. No. 945,816; Jan. 11; Sp. p. 1801; Gaz. vol. 150; p. 301.
Railway-tie, Metallic. A. M. Baird. No. 946,530; Jan. 18; Sp. p. 3433; Gaz. vol. 150; p. 577.
Railway-tie, Metallic. S. McCloud. No. 949,834; Feb. 22; Sp. p. 4294; Gaz. vol. 151; p. 774.
Railway-tie, Metallic. W. H. Shear. No. 952,586; Mar. 22; Sp. p. 4313; Gaz. vol. 152; p. 790.
Railway-tie, Metallic. W. U. and S. J. Gamble. No. 953,004; Mar. 22; Sp. p. 5196; Gaz. vol. 152; p. 932.
Railway-tie, Metallic. W. J. Allsbrooks. 953,984; Apr. 5; Sp. p. 596; Gaz. vol. 153; p. 107.
Railway-tie, Metallic. A. S. Warren. No. 961,052; June 7; Sp. p. 1632; Gaz. vol. 155; p. 273.
Railway-tie, Metallic. S. T. Wilson and C. K. McDermott. No. 962,996; June 28; Sp. p. 5775; Gaz. vol. 155; p. 1011.
Railway-tie, Metallic. S. B. Stuart and T. P. Burns. No. 967,583; Aug. 16; Sp. p. 3731; Gaz. vol. 157; p. 641.
Railway-tie, Metallic. P. Hageney. No. 968,049; Aug. 23; Sp. p. 4693; Gaz. vol. 157; p. 820.
Railway-tie, Metallic. S. A. Wright. No. 969,681; Sept. 6; Sp. p. 1123; Gaz. vol. 158; p. 181.
Railway-tie, Metallic. W. D. Forsyth. No. 977,179; Nov. 29; Sp. p. 6865; Gaz. vol. 160; p. 1166.
Railway-tie plate. G. A. Hassel. No. 949,270; Feb. 15; Sp. p. 3125; Gaz. vol. 151; p. 551.
Railway-tie plate. A. Morrison. No. 956,398; Apr. 26; Sp. p. 5878; Gaz. vol. 153; p. 1022.
Railway-tie plate. A. Morrison. No. 961,517; June 14; Sp. p. 2630; Gaz. vol. 155; p. 459.
Railway-tie plate. W. L. De Remer. No. 965,571; July 26; Sp. p. 5580; Gaz. vol. 156; p. 949.
Railway-tie, Rail-cushion metal. G. E. Hall. No. 961,071; June 7; Sp. p. 1670; Gaz. vol. 155; p. 280.
Railway-tie rod. E. J. Bricker. No. 948,496; Feb. 8; Sp. p. 1513; Gaz. vol. 151; p. 267.
Railway-tie spacer. H. All and B. M. Buckland. No. 949,207; Feb. 15; Sp. p. 2988; Gaz. vol. 151; p. 530.
Railway-tie, Steel. J. Klega. No. 953,533; Mar. 29; Sp. p. 6368; Gaz. vol. 152; p. 1140.
Railway-tie, Steel combination. J. R. Green. (Reissue.) No. 13,085; Mar. 1; Sp. p. 1284; Gaz. vol. 152; p. 211.
Railway-ties, Collar for concrete. J. S. Warrick. No. 979,615; Dec. 27; Sp. p. 4751; Gaz. vol. 161; p. 834.
Railway-ties from steel rails, Apparatus for making. W. H. Morgan. No. 968,872; Aug. 30; Sp. p. 6474; Gaz. vol. 157; p. 1128.
Railway-ties from steel rails, Apparatus for making. W. H. Morgan. No. 968,874; Aug. 30; Sp. p. 6480; Gaz. vol. 157; p. 1128.
Railway-ties from steel rails, Making. W. H. Morgan. No. 968,873; Aug. 30; Sp. p. 6478; Gaz. vol. 157; p. 1128.
Railway-track. A. Cottom. No. 965,567; July 26; Sp. p. 5570; Gaz. vol. 156; p. 948.
Railway-track. W. H. Ostrander. No. 978,054; Dec. 6; Sp. p. 1361; Gaz. vol. 161; p. 218.
Railway-track bolt. W. L. Bogle. No. 973,470; Oct. 25; Sp. p. 4315; Gaz. vol. 159; p. 757.
Railway-track brake. J. B. Atwood. No. 952,493; Mar. 22; Sp. p. 4114; Gaz. vol. 152; p. 757.
Railway-track construction. W. Worwood. No. 951,039; Mar. 1; Sp. p. 1172; Gaz. vol. 152; p. 192.
Railway-track construction. J. W. Blower. No. 954,163; Apr. 5; Sp. p. 992; Gaz. vol. 153; p. 168.
Railway-track construction. J. W. Blower. No. 954,249; Apr. 5; Sp. p. 1177; Gaz. vol. 153; p. 197.
Railway-track construction. J. W. Blower. No. 956,514; May 3; Sp. p. 16; Gaz. vol. 154; p. 5.
Railway-track construction. J. W. Blower. No. 956,880; May 3; Sp. p. 826; Gaz. vol. 154; p. 132.
Railway-track construction. J. W. Blower. No. 957,407; May 10; Sp. p. 1966; Gaz. vol. 154; p. 340.
Railway-track construction. J. W. Blower. No. 960,800; June 7; Sp. p. 1135; Gaz. vol. 155; p. 190.
Railway-track construction. L. H. Evans. No. 963,364; July 5; Sp. p. 801; Gaz. vol. 156; p. 118.
Railway-track construction. A. Winn. No. 963,844; July 12; Sp. p. 1835; Gaz. vol. 156; p. 302.
Railway-track construction. A. L. Bush. No. 966,793; Aug. 9; Sp. p. 2082; Gaz. vol. 157; p. 346.
Railway-track construction. J. W. Blower. No. 969,152; Sept. 6; Sp. p. 4; Gaz. vol. 158; p. 3.
Railway-track construction. J. W. Blower. No. 971,590; Oct. 4; Sp. p. 174; Gaz. vol. 159; p. 32.
Railway-track drill. F. E. Damron. No. 970,312; Sept. 13; Sp. p. 2500; Gaz. vol. 158; p. 421.
Railway-track layer. R. L. Brown and S. F. Bates. No. 950,814; Mar. 1; Sp. p. 758; Gaz. vol. 152; p. 121.
Railway-track-rail bond. C. A. Parker. No. 969,115; Aug. 30; Sp. p. 6966; Gaz. vol. 157; p. 1212.
Railway-track-rail holder and brace. J. T. West. No. 980,036; Dec. 27; Sp. p. 5662; Gaz. vol. 161; p. 975.
Railway-track structure. H. F. Roach. No. 947,530; Jan. 25; Sp. p. 5646; Gaz. vol. 150; p. 939.
Railway-track structure. H. F. Roach. No. 947,531; Jan. 25; Sp. p. 5650; Gaz. vol. 150; p. 939.
Railway-track structure. H. F. Roach. No. 947,532; Jan. 25; Sp. p. 5651; Gaz. vol. 150; p. 939.
Railway-track structure. T. Lennox. No. 964,981; July 19; Sp. p. 4303; Gaz. vol. 156; p. 718.
Railway-track-surfacing device. H. M. Harris. No. 949,429; Feb. 15; Sp. p. 3475; Gaz. vol. 151; p. 607.
Railway-tracks, Laying. H. W. Jacobs. No. 966,836; Aug. 9; Sp. p. 2183; Gaz. vol. 157; p. 359.
Railway-tracks, Laying. H. W. Jacobs. No. 966,837; Aug. 9; Sp. p. 2184; Gaz. vol. 157; p. 359.
Railway traction member. E. M. Boynton. No. 976,543; Nov. 22; Sp. p. 5451; Gaz. vol. 160; p. 921.
Railway-trains, Automatic brake-applying device for. H. P. Zackey. No. 972,671; Oct. 11; Sp. p. 2527; Gaz. vol. 159; p. 430.
Railway-trains, Automatic stopping mechanism for. W. J. Wilgus. No. 946,298; Jan. 11; Sp. p. 2834; Gaz. vol. 150; p. 471.
Railway-trains, Automatic stopping mechanism for. W. J. Wilgus. No. 946,415; Jan. 11; Sp. p. 3174; Gaz. vol. 150; p. 511.
Railway-trains, Smoke-conveying attachment for. A. May. No. 959,777; May 31; Sp. p. 7230; Gaz. vol. 154; p. 1227.
Railway-trains, System of electric signal or control for. J. T. Thompson. No. 952,054; Mar. 15; Sp. p. 3235; Gaz. vol. 152; p. 582.
Railway, tramway, and other vehicle. J. E. Anger. No. 960,145; May 31; Sp. p. 8059; Gaz. vol. 154; p. 1354.
Railway trip device. A. M. Jones. No. 972,111; Oct. 4; Sp. p. 1290; Gaz. vol. 159; p. 218.
Railway water-supply, Stand-pipe for. P. H. Knight. No. 958,504; May 17; Sp. p. 4568; Gaz. vol. 154; p. 749.
Railway weed-cutter. E. Laas and R. Whitty. No. 952,204; Mar. 15; Sp. p. 3508; Gaz. vol. 152; p. 632.
Railway weed-cutter. R. Whitty and E. Laas. No. 974,452; Nov. 1; Sp. p. 861; Gaz. vol. 160; p. 127.
Railway-wrecks, Device for preventing. J. G. Henzel. No. 947,385; Jan. 25; Sp. p. 5298; Gaz. vol. 150; p. 890.
Railways, Catenary overhead system for electric. W. A. McCallum. No. 974,982; Nov. 8; Sp. p. 2066; Gaz. vol. 160; p. 337.
Railways, Current distributing and collecting mechanism for electric. F. G. Clark. No. 964,953; July 19; Sp. p. 4248; Gaz. vol. 156; p. 710.
Railways, Electric bond for. H. P. Brown. No. 945,374; Jan. 4; Sp. p. 802; Gaz. vol. 150; p. 124.
Railways, Electric conductor for. E. W. Enequist. No. 945,502; Jan. 4; Sp. p. 1074; Gaz. vol. 150; p. 166.
Railways, Guard-covering for third rails of electric. J. Kress. No. 946,373; Jan. 11; Sp. p. 3092; Gaz. vol. 150; p. 496.
Railways, Highway-crossing device for electric. D. T. Fisher. No. 947,612; Jan. 25; Sp. p. 5821; Gaz. vol. 150; p. 967.
Railways, Iron cross-tie for. R. Hood. No. 950,174; Feb. 22; Sp. p. 5087; Gaz. vol. 151; p. 893.
Railways, Overhead contact system for electric. J. Belzner, Jr. No. 959,197; May 24; Sp. p. 6033; Gaz. vol. 154; p. 1008.
Rain and wind shield, Combined. C. F. Baker and F. C. Kimble. No. 950,505; Mar. 1; Sp. p. 97; Gaz. vol. 152; p. 16.
Rain-water cut-off. W. P. Walker. No. 971,578; Oct. 4; Sp. p. 144; Gaz. vol. 159; p. 27.
Raisin-seeder. W. C. Anderson. No. 951,897; Mar. 15; Sp. p. 2933; Gaz. vol. 152; p. 530.
Raisin-seeder. T. H. Elliott. No. 962,201; June 21; Sp. p. 4119; Gaz. vol. 155; p. 715.
Raisin-seeder. M. Erlenbach and H. Kohn. No. 963,702; July 5; Sp. p. 1483; Gaz. vol. 156; p. 231.
Raisin-seeder. W. C. Anderson. No. 976,247; Nov. 22; Sp. p. 4798; Gaz. vol. 160; p. 820.
Raisin-stemmer. W. C. Anderson. No. 962,609; June 28; Sp. p. 5019; Gaz. vol. 155; p. 878.
Rake: *See* Corn-rake; Double rake; Garden-rake; Hand-rake; Hay-rake; Horse-rake; Lawn-rake; Lawn-cleaner rake; Push-rake; Rotary rake; Self-cleaning rake; Sweep-rake; Walking-rake.
Rake. J. Burger. No. 946,653; Jan. 18; Sp. p. 3671; Gaz. vol. 150; p. 615.
Rake. J. N. Parker. No. 951,024; Mar. 1; Sp. p. 1150; Gaz. vol. 152; p. 187.
Rake. P. Gladback. No. 957,947; May 17; Sp. p. 3087; Gaz. vol. 154; p. 553.
Rake. J. B. Menzl. No. 962,576; June 28; Sp. p. 4953; Gaz. vol. 155; p. 867.
Rake. J. L. Spalding and F. G. Schadegg. No. 972,031; Oct. 4; Sp. p. 1145; Gaz. vol. 159; p. 192.
Rake and harrow, Combined. W. M. Ross. No. 966,602; Aug. 9; Sp. p. 1654; Gaz. vol. 157; p. 282.
Rake and hoe, Combined. J. Dalpay. No. 954,616; Apr. 12; Sp. p. 1965; Gaz. vol. 153; p. 348.

Rake and hoe, Combined. A. A. Kohler. No. 975,254; Nov. 8; Sp. p. 2662; Gaz. vol. 160; p. 430.
Rake and stalk-cutter, Combined. W. Mercer. No. 963,455; July 5; Sp. p. 988; Gaz. vol. 156; p. 148.
Rake attachment for hay-wagons. H. H. Howe. No. 965,110; July 19; Sp. p. 4563; Gaz. vol. 156; p. 761.
Rake attachment, Sulky-. J. T. Stauffer. No. 964,577; July 19; Sp. p. 3387; Gaz. vol. 156; p. 579.
Rake attachment, Sweep-. A. F. and A. J. Clark. No. 963,991; July 12; Sp. p. 2147; Gaz. vol. 156; p. 350.
Rake cleaning attachment, Hand-. W. Bullard. No. 948,497; Feb. 8; Sp. p. 1515; Gaz. vol. 151; p. 268.
Rake-tooth cleaner. H. B. Ross. No. 979,340; Dec. 20; Sp. p. 4161; Gaz. vol. 161; p. 717.
Rake-tooth point. H. A. Smith. No. 962,060; June 21; Sp. p. 3791; Gaz. vol. 155; p. 665.
Raker gage and jointer. S. C. Miles. No. 962,969; June 28; Sp. p. 5713; Gaz. vol. 155; p. 1002.
Ram. R. E. Stafford and A. F. Lott. No. 964,128; July 12; Sp. p. 2426; Gaz. vol. 156; p. 398.
Ram, Hydraulic. J. E. Lester. No. 946,607; Jan. 18; Sp. p. 3568; Gaz. vol. 150; p. 600.
Ram, Hydraulic. A. Abraham. No. 974,620; Nov. 1; Sp. p. 1236; Gaz. vol. 160; p. 190.
Ram, Hydraulic. J. R. Thompson. No. 974,724; Nov. 1; Sp. p. 1467; Gaz. vol. 160; p. 226.
Ram, Hydraulic. B. J. Carroll. No. 976,546; Nov. 22; Sp. p. 5455; Gaz. vol. 160; p. 922.
Rammer and tamper, Hand. A. M. Lind. No. 947,548; Jan. 25; Sp. p. 5687; Gaz. vol. 150; p. 944.
Rammer, Multiple power-. H. M. Plaisted. No. 979,196; Dec. 20; Sp. p. 3867; Gaz. vol. 161; p. 669.
Ramming-machine. J. K. Dimmick. No. 979,832; Dec. 27; Sp. p. 5241; Gaz. vol. 161; p. 907.
Ramie, Manufacture of batting and yarn of. P. Birkenstock. No. 949,643; Feb. 15; Sp. p. 3884; Gaz. vol. 151; p. 676.
Rand-machine. E. L. Pope. No. 951,575; Mar. 8; Sp. p. 2255; Gaz. vol. 152; p. 392.
Rands, Making. L. H. Shaw. No. 958,896; May 24; Sp. p. 5429; Gaz. vol. 154; p. 909.
Range. H. S. Marvin. No. 948,943; Feb. 8; Sp. p. 2439; Gaz. vol. 151; p. 415.
Range. J. D. Briggs. No. 971,520; Oct. 4; Sp. p. 18; Gaz. vol. 159; p. 5.
Range attachment, Gas-. M. F. O'Donohoe. No. 958,525; May 17; Sp. p. 4613; Gaz. vol. 154; p. 757.
Range attachment, Gas-. M. P. O'Donohoe and C. P. Ellis. No. 969,558; Sept. 6; Sp. p. 877; Gaz. vol. 158; p. 138.
Range-boiler. V. Wilhelmi. No. 946,299; Jan. 11; Sp. p. 2843; Gaz. vol. 150; p. 471.
Range, Combined gas and coal. C. V. Roberts and J. Mander. No. 962,244; June 21; Sp. p. 4193; Gaz. vol. 155; p. 728.
Range, Combined gas and hard-fuel. C. H. Miller. No. 969,793; Sept. 13; Sp. p. 1391; Gaz. vol. 158; p. 244.
Range, Combined solid-fuel and gas. C. H. and C. H. Miller, Jr. No. 960,184; May 31; Sp. p. 8130; Gaz. vol. 154; p. 1367.
Range, Cooking-. B. W. Smith. No. 949,203; Feb. 15; Sp. p. 2982; Gaz. vol. 151; p. 528.
Range-finder. G. Griffith. No. 959,338; May 24; Sp. p. 6317; Gaz. vol. 154; p. 1056.
Range-finder. D. Schneider. No. 968,426; Aug. 23; Sp. p. 5505; Gaz. vol. 157; p. 949.
Range-finding sight. S. W. Carter. No. 951,523; Mar. 8; Sp. p. 2157; Gaz. vol. 152; p. 374.
Range, Kitchen-. C. H. Miller. No. 960,183; May 31; Sp. p. 8129; Gaz. vol. 154; p. 1367.
Range-transmitter. J. L. Hall. No. 945,940; Jan. 11; Sp. p. 2082; Gaz. vol. 150; p. 347.
Ranges, Burner-support for gas-. H. P. G. Norstrand. No. 947,753; Jan. 25; Sp. p. 6071; Gaz. vol. 150; p. 1013.
Rat or mouse trap. C. Miller. No. 968,966; Aug. 30; Sp. p. 6660; Gaz. vol. 157; p. 1160.
Rat-trap. W. S. Ward. No. 977,240; Nov. 29; Sp. p. 6986; Gaz. vol. 160; p. 1187.
Ratchet-drill. D. Cortese. No. 964,616; July 19; Sp. p. 3471; Gaz. vol. 156; p. 593.
Ratchet-drill. J. M. Reams. No. 966,597; Aug. 9; Sp. p. 1642; Gaz. vol. 157; p. 280.
Ratchet-drill. T. R. Sheetz. No. 969,664; Sept. 6; Sp. p. 1088; Gaz. vol. 158; p. 174.
Ratchet-drill. F. E. Farley. No. 977,176; Nov. 29; Sp. p. 6859; Gaz. vol. 160; p. 1165.
Ratchet-drill, Chain breast. S. McClellan. No. 976,131; Nov. 15; Sp. p. 4482; Gaz. vol. 160; p. 756.
Ratchet-jack. A. F. Lent. No. 945,334; Jan. 4; Sp. p. 722; Gaz. vol. 150; p. 111.
Ratchet mechanism. G. O. Leopold. No. 954,980; Apr. 12; Sp. p. 2810; Gaz. vol. 153; p. 476.
Ratchet-wrench. W. Cook. No. 949,522; Feb. 15; Sp. p. 3650; Gaz. vol. 151; p. 635.
Ratchet-wrench. S. P. Perussina. No. 950,675; Mar. 1; Sp. p. 451; Gaz. vol. 152; p. 73.
Ratchet-wrench. J. C. Heinrich and W. Kellermann. No. 951,316; Mar. 8; Sp. p. 1742; Gaz. vol. 152; p. 306.
Ratchet-wrench. C. Miller. No. 952,436; Mar. 15; Sp. p. 3965; Gaz. vol. 152; p. 710.
Ratchet-wrench. C. R. Anderson. No. 959,690; May 31; Sp. p. 7051; Gaz. vol. 154; p. 1198.
Ratchet-wrench. J. A. Repass. No. 968,080; Aug. 23; Sp. p. 4773; Gaz. vol. 157; p. 830.
Ratchet-wrench. A. M. Fulkerson. No. 970,320; Sept. 13; Sp. p. 2516; Gaz. vol. 158; p. 424.
Ratchet-wrench. H. C. Lawson. No. 972,627; Oct. 11; Sp. p. 2445; Gaz. vol. 159; p. 416.
Ratchet-wrench. J. P. Hansen. No. 973,779; Oct. 25; Sp. p. 4966; Gaz. vol. 159; p. 863.
Ratchet-wrench. R. H. Peters. No. 978,395; Dec. 13; Sp. p. 2118; Gaz. vol. 161; p. 368.
Ratchet-wrench, Adjustable. O. Kornberg. No. 968,858; Aug. 30; Sp. p. 6448; Gaz. vol. 157; p. 1123.
Rate and quotation sheet. B. E. Allison. No. 967,701; Aug. 16; Sp. p. 3955; Gaz. vol. 157; p. 679.
Rattler. G. P. Hemstreet. No. 970,373; Sept. 13; Sp. p. 2620; Gaz. vol. 158; p. 442.
Razor. T. C. Durham. No. 951,306; Mar. 8; Sp. p. 1718; Gaz. vol. 152; p. 303.
Razor. G. and A. H. Frank. No. 952,034; Mar. 15; Sp. p. 3201; Gaz. vol. 152; p. 576.
Razor. G. F. Hollon. No. 957,060; May 3; Sp. p. 1206; Gaz. vol. 154; p. 192.
Razor. A. A. Warner. No. 969,226; Sept. 6; Sp. p. 178; Gaz. vol. 158; p. 29.
Razor. S. C. Yeaton, Jr. No. 977,919; Dec. 6; Sp. p. 1084; Gaz. vol. 161; p. 172.
Razor and stropper, Combined. F. H. Arnold. No. 948,034; Feb. 1; Sp. p. 534; Gaz. vol. 151; p. 86.
Razor attachment. E. P. Truesdale. No. 980,027; Dec. 27; Sp. p. 5623; Gaz. vol. 161; p. 972.
Razor-blade. W. J. Smart. No. 960,424; June 7; Sp. p. 376; Gaz. vol. 155; p. 63.
Razor-blade holder. C. W. Levalley. No. 948,864; Feb. 8; Sp. p. 2286; Gaz. vol. 151; p. 389.
Razor-blade holder. L. A. Flinker. No. 949,999; Feb. 22; Sp. p. 4720; Gaz. vol. 151; p. 834.
Razor-blade holder. L. W. Shuffelton. No. 953,240; Mar. 29; Sp. p. 5729; Gaz. vol. 152; p. 1038.
Razor-blade holder. H. H. Holmes. No. 953,421; Mar. 29; Sp. p. 6122; Gaz. vol. 152; p. 1099.
Razor-blade holder. A. I. Resh, W. J. Trevillian, and A. M. Resh. No. 953,553; Mar. 29; Sp. p. 6400; Gaz. vol. 152; p. 1146.
Razor-blade holder. C. M. Crane. No. 965,690; July 26; Sp. p. 5830; Gaz. vol. 156; p. 991.
Razor-blade holder. H. Diflo. No. 966,387; Aug. 2; Sp. p. 1122; Gaz. vol. 157; p. 181.
Razor-blade holder. J. E. Dubé. No. 971,257; Sept. 27; Sp. p. 4513; Gaz. vol. 158; p. 789.
Razor-blade holder. F. C. Gorham. No. 975,762; Nov. 15; Sp. p. 3736; Gaz. vol. 160; p. 629.
Razor-blade holder, Safety-. G. M. Atkins. No. 955,935; Apr. 26; Sp. p. 4866; Gaz. vol. 153; p. 861.
Razor-blade holder, Safety-. G. S. Pope. No. 965,406; July 26; Sp. p. 5186; Gaz. vol. 156; p. 890.
Razor blade, Safety-. O. Kampfe. No. 978,303; Dec. 13; Sp. p. 1926; Gaz. vol. 161; p. 336.
Razor-blade-stropping device. C. G. Ward. No. 955,298; Apr. 19; Sp. p. 3458; Gaz. vol. 153; p. 614.
Razor case, Safety-. R. Middeldorf. No. 961,727; June 14; Sp. p. 3054; Gaz. vol. 155; p. 529.
Razor guard, Safety-. M. Monetti. No. 974,906; Nov. 8; Sp. p. 1875; Gaz. vol. 160; p. 310.
Razor holder or frame, Safety-. W. Schmidt. No. 962,531; June 28; Sp. p. 4846; Gaz. vol. 155; p. 852.
Razor-hone. N. Salvato. No. 947,511; Jan. 25; Sp. p. 5616; Gaz. vol. 150; p. 932.
Razor-hone. S. J. Smith. No. 950,808; Mar. 1; Sp. p. 747; Gaz. vol. 152; p. 120.
Razor-honing apparatus. L. Alfano. No. 962,935; June 28; Sp. p. 5658; Gaz. vol. 155; p. 991.
Razor, Safety-. C. G. Ward. No. 946,949; Jan. 18; Sp. p. 4352; Gaz. vol. 150; p. 715.
Razor, Safety-. J. H. Woods. No. 947,010; Jan. 18; Sp. p. 4483; Gaz. vol. 150; p. 737.
Razor, Safety-. J. H. Woods. No. 947,209; Jan. 18; Sp. p. 4852; Gaz. vol. 150; p. 800.
Razor, Safety-. W. B. Wetmur. No. 949,205; Feb. 15; Sp. p. 2986; Gaz. vol. 151; p. 529.
Razor, Safety-. A. F. Bals. No. 949,255; Feb. 15; Sp. p. 3084; Gaz. vol. 151; p. 546.
Razor, Safety-. C. W. Levalley. No. 949,542; Feb. 15; Sp. p. 3698; Gaz. vol. 151; p. 642.
Razor, Safety-. C. W. Levalley. No. 949,584; Feb. 15; Sp. p. 3777; Gaz. vol. 151; p. 657.
Razor, Safety-. G. Osborn. No. 950,113; Feb. 22; Sp. p. 4955; Gaz. vol. 151; p. 872.
Razor, Safety-. A. Hygonnet. No. 950,820; Mar. 1; Sp. p. 775; Gaz. vol. 152; p. 123.
Razor, Safety-. J. K. Waterman. No. 951,036; Mar. 1; Sp. p. 1167; Gaz. vol. 152; p. 191.
Razor, Safety-. L. D. Saxton. No. 951,456; Mar. 8; Sp. p. 2029; Gaz. vol. 152; p. 351.
Razor, Safety-. L. D. Saxton. No. 952,216; Mar. 15; Sp. p. 3534; Gaz. vol. 152; p. 636.
Razor, Safety-. L. Nahemow. No. 952,837; Mar. 22; Sp. p. 4872; Gaz. vol. 152; p. 877.
Razor, Safety-. E. Reizenstein. No. 953,058; Mar. 29; Sp. p. 5312; Gaz. vol. 152; p. 979.

Alphabetical list of inventions—Continued.

Razor, Safety-. B. C. Rash. No. 953,230; Mar. 29; Sp. p. 5700; Gaz. vol. 152; p. 1035.
Razor, Safety-. T. C. Durham. No. 953,989; Apr. 5; Sp. p. 613; Gaz. vol. 153; p. 109.
Razor, Safety-. J. Molkenthin, Jr. No. 954,871; Apr. 12; Sp. p. 2584; Gaz. vol. 153; p. 440.
Razor, Safety-. H. A. Kieselhorst. No. 956,532; May 3; Sp. p. 51; Gaz. vol. 154; p. 11.
Razor, Safety-. C. F. Smith. No. 957,008; May 3; Sp. p. 1106; Gaz. vol. 154; p. 173.
Razor, Safety-. A. F. Durand. No. 958,699; May 17; Sp. p. 4945; Gaz. vol. 154; p. 812.
Razor, Safety-. P. A. Bowen. No. 965,862; Aug. 2; Sp. p. 28; Gaz. vol. 157; p. 7.
Razor, Safety-. G. W. Conrow. No. 967,501; Aug. 16; Sp. p. 3574; Gaz. vol. 157; p. 613.
Razor, Safety-. A. A. Pratt. No. 967,831; Aug. 16; Sp. p. 4231; Gaz. vol. 157; p. 723.
Razor, Safety-. C. F. Smith. No. 968,428; Aug. 23; Sp. p. 5509; Gaz. vol. 157; p. 950.
Razor, Safety-. G. A. Logan. No. 968,578; Aug. 30; Sp. p. 5838; Gaz. vol. 157; p. 1029.
Razor, Safety-. A. A. Pratt. No. 969,724; Sept. 6; Sp. p. 1209; Gaz. vol. 158; p. 195.
Razor, Safety-. J. D. Millar. No. 971,772; Oct. 4; Sp. p. 547; Gaz. vol. 159; p. 96.
Razor, Safety-. E. A. Christoph. No. 971,827; Oct. 4; Sp. p. 655; Gaz. vol. 159; p. 115.
Razor, Safety-. E. G. Mergenthaler. No. 973,533; Oct. 25; Sp. p. 4454; Gaz. vol. 159; p. 778.
Razor, Safety-. E. I. Young. No. 973,734; Oct. 25; Sp. p. 4876; Gaz. vol. 159; p. 847.
Razor, Safety-. C. H. Likewise. No. 974,083; Oct. 25; Sp. p. 5587; Gaz. vol. 159; p. 968.
Razor, Safety-. H. Clauss. No. 974,473; Nov. 1; Sp. p. 914; Gaz. vol. 160; p. 135.
Razor, Safety-. L. Knaster. No. 975,535; Nov. 15; Sp. p. 3263; Gaz. vol. 160; p. 554.
Razor, Safety-. O. Kampfe. No. 977,314; Nov. 29; Sp. p. 7118; Gaz. vol. 160; p. 1211.
Razor, Safety-. L. N. Levinsohn. No. 977,889; Dec. 6; Sp. p. 1021; Gaz. vol. 161; p. 162.
Razor, Safety-. W. A. Smith. No. 978,230; Dec. 13; Sp. p. 1763; Gaz. vol. 161; p. 310.
Razor, Safety-. O. A. Dannacher. No. 978,705; Dec. 13; Sp. p. 2787; Gaz. vol. 161; p. 474.
Razor, Safety-. R. Schwenzfeier. No. 979,100; Dec. 20; Sp. p. 3644; Gaz. vol. 161; p. 634.
Razor, Safety-. J. Heissenberger. No. 979,296; Dec. 20; Sp. p. 4085; Gaz. vol. 161; p. 703.
Razor, Safety-. A. M. Poindexter. No. 979,559; Dec. 27; Sp. p. 4632; Gaz. vol. 161; p. 813.
Razor-strop. R. E. Brown. No. 947,011; Jan. 18; Sp. p. 4484; Gaz. vol. 150; p. 737.
Razor-strop. C. W. Levalley. No. 949,585; Feb. 15; Sp. p. 3778; Gaz. vol. 151; p. 657.
Razor-strop. M. A. Mihills. No. 950,451; Feb. 22; Sp. p. 5620; Gaz. vol. 151; p. 986.
Razor-strop. A. L. Silberstein. No. 950,872; Mar. 1; Sp. p. 866; Gaz. vol. 152; p. 139.
Razor-strop. M. A. Mihills. No. 952,541; Mar. 22; Sp. p. 4222; Gaz. vol. 152; p. 774.
Razor-strop. R. L. Smith. No. 953,443; Mar. 29; Sp. p. 6169; Gaz. vol. 152; p. 1106.
Razor-strop. G. A. Bursch. No. 963,117; July 5; Sp. p. 240; Gaz. vol. 156; p. 32.
Razor-strop. M. A. Mihills. No. 970,939; Sept. 20; Sp. p. 3841; Gaz. vol. 158; p. 655.
Razor-strop. E. Hunold. No. 977,311; Nov. 29; Sp. p. 7114; Gaz. vol. 160; p. 1210.
Razor-strop clamp. A. Eisner. No. 971,432; Sept. 27; Sp. p. 4830; Gaz. vol. 158; p. 845.
Razor-strop holder. C. R. Eads. No. 946,021; Jan. 11; Sp. p. 2248; Gaz. vol. 150; p. 373.
Razor-stropper. J. G. Bestgen. No. 957,140; May 3; Sp. p. 1360; Gaz. vol. 154; p. 218.
Razor-stropper. D. Millington and H. Yates. No. 957,434; May 10; Sp. p. 2020; Gaz. vol. 154; p. 350.
Razor-stropper. A. C. Hayden. No. 977,868; Dec. 6; Sp. p. 974; Gaz. vol. 161; p. 154.
Razor-stropping device. W. H. Nicholls. No. 948,673; Feb. 8; Sp. p. 1887; Gaz. vol. 151; p. 325.
Razor-stropping device. N. R. George. No. 949,424; Feb. 15; Sp. p. 3464; Gaz. vol. 151; p. 605.
Razor-stropping device. E. I. Young. No. 952,168; Mar. 15; Sp. p. 3443; Gaz. vol. 152; p. 619.
Razor-stropping device. H. E. Crandall. No. 961,105; June 14; Sp. p. 1751; Gaz. vol. 155; p. 318.
Razor-stropping device. C. F. Benedict. No. 962,190; June 21; Sp. p. 4099; Gaz. vol. 155; p. 711.
Razor-stropping device. J. A. Harrington. No. 966,685; Aug. 9; Sp. p. 1811; Gaz. vol. 157; p. 309.
Razor-stropping device. D. E. Washington. No. 972,958; Oct. 18; Sp. p. 3201; Gaz. vol. 159; p. 557.
Razor-stropping device. W. H. Shattuck. No. 975,801; Nov. 15; Sp. p. 3815; Gaz. vol. 160; p. 642.
Razor-stropping machine. M. H. Avram. No. 950,503; Mar. 1; Sp. p. 93; Gaz. vol. 152; p. 15.
Razor-stropping machine. M. H. Avram. No. 950,504; Mar. 1; Sp. p. 95; Gaz. vol. 152; p. 16.
Razor-stropping machine. M. H. Avram. No. 950,830; Mar. 1; Sp. p. 794; Gaz. vol. 152; p. 127.
Razor-stropping machine. I. Buchler and W. Wasserstrom. No. 955,578; Apr. 19; Sp. p. 4038; Gaz. vol. 153; p. 709.
Razors, Safety-shield and self-sharpener for. C. A. Harris. No. 976,259; Nov. 22; Sp. p. 4828; Gaz. vol. 160; p. 824.
Reach-rod guide. F. J. Cole. No. 968,835; Aug. 30; Sp. p. 6399; Gaz. vol. 157; p. 1116.
Reading-stand. A. A. Pilsbry. No. 971,634; Oct. 4; Sp. p. 263; Gaz. vol. 159; p. 47.
Ready-reckoner. A. C. S. Schabad. No. 972,650; Oct. 11; Sp. p. 2488; Gaz. vol. 159; p. 424.
Reamer. J. G. Matthews. No. 945,566; Jan. 4; Sp. p. 1207; Gaz. vol. 150; p. 187.
Reamer. C. J. Crowley. No. 948,269; Feb. 1; Sp. p. 995; Gaz. vol. 151; p. 164.
Reamer. W. Wattie. No. 952,158; Mar. 15; Sp. p. 3427; Gaz. vol. 152; p. 616.
Reamer. S. G. Ryder. No. 955,696; Apr. 19; Sp. p. 4344; Gaz. vol. 153; p. 750.
Reamer. T. E. Stevenson. No. 965,664; July 26; Sp. p. 5767; Gaz. vol. 156; p. 981.
Reamer, Adjustable. W. Turney. No. 959,273; May 24; Sp. p. 6186; Gaz. vol. 154; p. 1034.
Reamer, Adjustable. C. H. Malmedie. No. 972,115; Oct. 4; Sp. p. 1298; Gaz. vol. 159; p. 219.
Reamer, Adjustable. C. H. Malmedie. No. 972,116; Oct. 4; Sp. p. 1299; Gaz. vol. 159; p. 220.
Reamer, Adjustable. C. H. Malmedie. No. 972,117; Oct. 4; Sp. p. 1300; Gaz. vol. 159; p. 220.
Reamer, Adjustable. W. E. York and G. D. Hayden. No. 972,139; Oct. 4; Sp. p. 1352; Gaz. vol. 159; p. 227.
Reamer, Adjustable. W. H. Pugh and J. A. Etzold. No. 976,212; Nov. 22; Sp. p. 4677; Gaz. vol. 160; p. 806.
Reamer, Adjustable. A. Studer. No. 979,809; Dec. 27; Sp. p. 5188; Gaz. vol. 161; p. 900.
Reamer and auger. W. G. Lloyd. No. 952,916; Mar. 22; Sp. p. 5021; Gaz. vol. 152; p. 902.
Reamer, Expanding. J. G. Matthews. No. 946,384; Jan. 11; Sp. p. 3111; Gaz. vol. 150; p. 500
Reamer, Expansion-. W. C. Meyer. No. 947,926; Feb. 1; Sp. p. 303; Gaz. vol. 151; p. 51.
Reamer, Expansion-. W. P. Fouts and F. B. Hobbs. No. 961,115; June 14; Sp. p. 1769; Gaz. vol. 155; p. 321.
Reaper. V. McLaughlin. No. 968,878; Aug. 30; Sp. p. 6487; Gaz. vol. 157; p. 1130.
Reaping and mowing machine pitman-wheel. H. O. Trowbridge. No. 970,140; Sept. 13; Sp. p. 2128; Gaz. vol. 158; p. 362.
Rear light and number-tag, Combined. A. F. Clark. No. 960,822; June 7; Sp. p. 1180; Gaz. vol. 155; p. 197.
Reboiler. C. G. Carley. No. 969,037; Aug. 30; Sp. p. 6799; Gaz. vol. 157; p. 1185.
Receivers, Means for exhausting inclosed. M. von Recklinghausen. No. 946,068; Jan. 11; Sp. p. 2338; Gaz. vol. 150; p. 389.
Receiving and storing apparatus, Combined. I. Gibson. No. 967,121; Aug. 9; Sp. p. 2784; Gaz. vol. 157; p. 456.
Receiving apparatus. H. Shoemaker. No. 974,927; Nov. 8; Sp. p. 1925; Gaz. vol. 160; p. 318.
Receiving apparatus. F. W. Midgley. No. 974,985; Nov. 8; Sp. p. 2071; Gaz. vol. 160; p. 338.
Receiving apparatus. F. W. Midgley. No. 974,986; Nov. 8; Sp. p. 2073; Gaz. vol. 160; p. 338.
Receiving, dividing, and conveying device, Combination. W. F. Klinck. No. 964,166; July 12; Sp. p. 2490; Gaz. vol. 156; p. 409.
Receptacle. J. M. Rau. No. 954,206; Apr 5; Sp. p. 1102; Gaz. vol. 153; p. 183.
Receptacle. A. H. S. Swan. No. 956,226; Apr. 26; Sp. p. 5521; Gaz. vol. 153; p. 963.
Receptacle. W. A. Moudy. No. 960,996; June 7; Sp. p. 1528; Gaz. vol. 155; p. 255.
Receptacle. O. J. Weeks. No. 966,278; Aug. 2; Sp. p. 917; Gaz. vol. 157; p. 147.
Receptacle. N. B. Gregg. No. 966,740; Aug. 9; Sp. p. 1957; Gaz. vol. 157; p. 329.
Receptacle. M. Kerwick. No. 972,456; Oct. 11; Sp. p. 2030; Gaz. vol. 159; p. 356.
Receptacle. A. H. F. Perl. No. 974,593; Nov. 1; Sp. p. 1182; Gaz. vol. 160; p. 180.
Receptacle. P. G. Seward. No. 975,898; Nov. 15; Sp. p. 4010; Gaz. vol. 160; p. 676.
Receptacle. C. W. Johnson. No. 975,958; Nov. 15; Sp. p. 4124; Gaz. vol. 160; p. 697.
Receptacle. J. P. G. Elkin. No. 978,569; Dec. 13; Sp. p. 2507; Gaz. vol. 161; p. 428.
Receptacle. C. L. Sanford. No. 979,803; Dec. 27; Sp. p. 5179; Gaz. vol. 161; p. 898.
Receptacle, Automatically-locking. N. Krump. No. 950,139; Feb. 22; Sp. p. 5010; Gaz. vol. 151; p. 881.
Receptacle-closure. R. G. Adams. No. 950,887; Mar. 1; Sp. p. 897; Gaz. vol. 152; p. 143.
Receptacle-closure. E. N. Gilfillan. No. 970,037; Sept. 13; Sp. p. 1937; Gaz. vol. 158; p. 328.
Receptacle-closure. C. F. Jenkins. No. 970,926; Sept. 20; Sp. p. 3816; Gaz. vol. 158; p. 651.
Receptacle-closure. G. W. Cole. No. 977,932; Dec. 6; Sp. p. 1107; Gaz. vol. 161; p. 177.
Receptacle closure, Fluid-. A. De Vilbiss. No. 949,170; Feb. 15; Sp. p. 2918; Gaz. vol. 151; p. 517.

Alphabetical list of inventions—Continued.

Receptacle-closures, Apparatus for forming and inserting. C. F. Jenkins. No. 954,107; Apr. 5; Sp. p. 860; Gaz. vol. 153; p. 149.
Receptacle, Collapsible. R. P. Brown. No. 953,593; Mar. 29; Sp. p. 6489; Gaz. vol. 152; p. 1160.
Receptacle, Collapsible. G. F. Lynch. No. 960,360; June 7; Sp. p. 254; Gaz. vol. 155; p. 43.
Receptacle-cover. B. F. Kramer. No. 971,509; Sept. 27; Sp. p. 4971; Gaz. vol. 158; p. 871.
Receptacle-filling machine. E. K. Hood. No. 964,781; July 19; Sp. p. 3911; Gaz. vol. 156; p. 650.
Receptacle, Folding. R. J. Thompson and E. C. Snodgrass. No. 977,760; Dec. 6; Sp. p. 757; Gaz. vol. 161; p. 117.
Receptacle for liquids. J. W. Kaufmann. No. 962,641; June 28; Sp. p. 5080; Gaz. vol. 155; p. 888.
Receptacle for medicines and the like, Hanging. J. B. Smith. No. 962,595; June 28; Sp. p. 4993; Gaz. vol. 155; p. 874.
Receptacle for powder and the like. C. A. Turner. No. 961.661; June 14; Sp. p. 2930; Gaz. vol. 155; p. 508.
Receptacle having apparatus for projecting disinfecting material, &c., into it. C. Waldstein. No. 962,067; June 21; Sp. p. 3814; Gaz. vol. 155; p. 668.
Receptacle-holder. J. W. Williams. No. 964,354; July 12; Sp. p. 2866; Gaz. vol. 156; p. 473.
Receptacle, Knockdown. O. M. Stiehl. No. 949,204; Feb. 15; Sp. p. 2984; Gaz. vol. 151; p. 529.
Receptacle-lifter. J. E. Wenman. No. 947,049; Jan. 18; Sp. p. 4539; Gaz. vol. 150; p. 748.
Receptacle, Liquid-. A. M. Van Ronk. No. 959,657; May 31; Sp. p. 6981; Gaz. vol. 154; p. 1188.
Receptacle, Metallic. C. W. Brown. No. 946,329; Jan. 11; Sp. p. 2903; Gaz. vol. 150; p. 481.
Receptacle, Metallic. J. H. Stiggleman. No. 958,558; May 17; Sp. p. 4670; Gaz. vol. 154; p. 767.
Receptacle, Metallic. E. Ryan. No. 962,470; June 28; Sp. p. 4712; Gaz. vol. 155; p. 830.
Receptacle or container. C. S. Baron and J. F. Haffey. No. 958,713; May 24; Sp. p. 4981; Gaz. vol. 154; p. 843.
Receptacle or the like. C. H. E. Boughton. No. 964,844; July 19; Sp. p. 4034; Gaz. vol. 156; p. 672.
Receptacle, Pocketed. E. P. Hay. No. 951,814; Mar. 15; Sp. p. 2749; Gaz. vol. 152; p. 502.
Receptacle, Sanitary. F. L. Hoffman. No. 979,005; Dec. 20; Sp. p. 3428; Gaz. vol. 161; p. 602.
Receptacle, Sealed. C. R. Parmele. No. 958,887; May 24; Sp. p. 5399; Gaz. vol. 154; p. 906.
Receptacle, Spirally-wound collapsible. C. F. Jenkins. No. 952,258; Mar. 15; Sp. p. 3621; Gaz. vol. 152; p. 651.
Receptacle-top. C. S. Baron. No. 949,053; Feb. 15; Sp. p. 2689; Gaz. vol. 151; p. 479.
Receptacle, Tubular. W. W. Bagley. No. 971,958; Oct. 4; Sp. p. 1000; Gaz. vol. 159; p. 167.
Receptacle washer and polisher. J. N. Graves. No. 977,385; Nov. 29; Sp. p. 7283; Gaz. vol. 160; p. 1237.
Receptacle with handle. F. Wegner. No. 964,720; July 19; Sp. p. 3783; Gaz. vol. 156; p. 629.
Receptacles, Machine for inserting closures in. C. F. Jenkins. No. 954,106; Apr. 5; Sp. p. 858; Gaz. vol. 153; p. 148.
Recessing-machine. O. M. Mowat. No. 967,219; Aug. 16; Sp. p. 2976; Gaz. vol. 157; p. 516.
Reciprocating die. F. Richardson. No. 963,394; July 5; Sp. p. 868; Gaz. vol. 156; p. 128.
Reciprocating motor. I. Yassenoff. (Reissue.) No. 13,133; July 12; Sp. p. 3123; Gaz. vol. 156; p. 515.
Reclining-chair. E. Fowler and H. E. Sadler. No. 945,928; Jan. 11; Sp. p. 2058; Gaz. vol. 150; p. 342.
Reclining-chair. J. E. Trimble. No. 948,029; Feb. 1; Sp. p. 518; Gaz. vol. 151; p. 84.
Reclining-chair. G. W. Piché. No. 967,665; Aug. 16; Sp. p. 3887; Gaz. vol. 157; p. 667.
Reclining-chair. J. Casassa. No. 972,334; Oct. 11; Sp. p. 1776; Gaz. vol. 159; p. 312.
Reclining-chair, Adjustable. A. D. Luedders. No. 971,288; Sept. 27; Sp. p. 4565; Gaz. vol. 158; p. 799.
Recoil-loader with fixed barrel. P. Mauser. No. 971,061; Sept. 27; Sp. p. 4093; Gaz. vol. 158; p. 725.
Record. O. J. Fajen. No. 978,722; Dec. 13; Sp. p. 2828; Gaz. vol. 161; p. 480.
Record-card. D. E. Hunter. No. 959,938; May 31; Sp. p. 7607; Gaz. vol. 154; p. 1284.
Record-holder. J. Roever. No. 959,610; May 31; Sp. p. 6890; Gaz. vol. 154; p. 1172.
Record-keeping device. A. H. Wheeler. No. 948,676; Feb. 8; Sp. p. 1900; Gaz. vol. 151; p. 326.
Recorder: *See* Combustion-recorder; Deflection-recorder; Electrical recorder; Stock-line recorder; Telephone-call recorder; Time-recorder.
Recorder. M. E. Leeds. No. 965,824; July 26; Sp. p. 6108; Gaz. vol. 156; p. 1036.
Recorder. W. S. Brown and F. M. Cruse. No. 967,321; Aug. 16; Sp. p. 3182; Gaz. vol. 157; p. 551.
Recording apparatus. E. M. Schantz. No. 965,754; July 26; Sp. p. 5945; Gaz. vol. 156; p. 1012.
Recording device. C. L. Jaeger. No. 955,167; Apr. 19; Sp. p. 3168; Gaz. vol. 153; p. 569.
Recording device. G. F. Card. No. 962,492; June 28; Sp. p. 4757; Gaz. vol. 155; p. 838.
Recording device. W. H. Pratt. No. 974,183; Nov. 1; Sp. p. 166; Gaz. vol. 160; p. 29.
Recording instruments, Pencil or stylus holder for. J. L. Zander. No. 946,304; Jan. 11; Sp. p. 2854; Gaz. vol. 150; p. 473.
Recording-machine. E. M. Rauhenstein. No. 972,405; Oct. 11; Sp. p. 1924; Gaz. vol. 159; p. 338.
Recording mechanism. C. E. W. Gardner. No. 955,789; Apr. 19; Sp. p. 4524; Gaz. vol. 153; p. 781.
Recording mechanism. W. L. Morris. No. 960,032; May 31; Sp. p. 7841; Gaz. vol. 154; p. 1317.
Recording mechanism. C. E. W. Gardner. No. 966,194; Aug. 2; Sp. p. 756; Gaz. vol. 157; p. 120.
Recording or registering messages, memoranda, &c., Device for. J. A. Gamble. No. 976,062; Nov. 15; Sp. p. 4311; Gaz. vol. 160; p. 731.
Rectal troubles, Device for the treatment of. C. M. Siebert, Jr. No. 968,704; Aug. 30; Sp. p. 6145; Gaz. vol. 157; p. 1072.
Rectangular articles in pairs, Machine for arranging. H. A. Kreft. No. 966,566; Aug. 9; Sp. p. 1581; Gaz. vol. 157; p. 269.
Rectifier. W. Meyer. No. 972,892; Oct. 18; Sp. p. 3028; Gaz. vol. 159; p. 534.
Reducing-machine. B. M. W. Hanson. No. 945,455; Jan. 4; Sp. p. 956; Gaz. vol. 150; p. 151.
Reducing-wheel. G. A. Webster. No. 973,596; Oct. 25; Sp. p. 4573; Gaz. vol. 159; p. 798.
Reduction and crucible furnace, Combined. W. J. Shaw. No. 967,069; Aug. 9; Sp. p. 2668; Gaz. vol. 157; p. 437.
Reduction-machine. J. E. Blake. No. 963,353; July 5; Sp. p. 780; Gaz. vol. 156; p. 115.
Reed-making-machine gearing. T. Bradford. No. 950,431; Feb. 22; Sp. p. 5589; Gaz. vol. 151; p. 979.
Reel: *See* Adjustable reel; Cable-reel; Chalk-line reel; Clothes-line reel; Drying-reel; Eyeglass-reel; Fabric-supporting reel; Fishing-reel; Fishing-line reel; Harvester-reel; Hose-reel; Lace-reel; Mower-reel; Mower cutting-reel; Portable reel; Reeling-machine reel; Surveyor's reel; Winding-reel; Winding-machine reel; Wire-reel.
Reel. T. Mason. No. 953,479; Mar. 29; Sp. p. 6243; Gaz. vol. 152; p. 1119.
Reel. F. Mossberg. No. 962,452; June 28; Sp. p. 4670; Gaz. vol. 155; p. 824.
Reel. F. Mossberg. No. 962,453; June 28; Sp. p. 4671; Gaz. vol. 155; p. 824.
Reel. F. Mossberg. No. 962,654; June 28; Sp. p. 5105; Gaz. vol. 155; p. 893.
Reel. F. J. Moser. No. 964,116; July 12; Sp. p. 2400; Gaz. vol. 156; p. 394.
Reel. V. H. Grover. No. 964,420; July 12; Sp. p. 2995; Gaz. vol. 156; p. 494.
Reel. E. G. Thomsen. No. 965,254; July 26; Sp. p. 4860; Gaz. vol. 156; p. 839.
Reel. A. F. Rietzel. No. 966,706; Aug. 9; Sp. p. 1846; Gaz. vol. 157; p. 316.
Reel. A. Wollensak. No. 969,234; Sept. 6; Sp. p. 192; Gaz. vol. 158; p. 31.
Reel. R. C. Redpath. No. 970,394; Sept. 13; Sp. p. 2655; Gaz. vol. 158; p. 448.
Reel. A. F. Rietzel. No. 970,986; Sept. 20; Sp. p. 3926; Gaz. vol. 158; p. 671.
Reel. H. Hall. No. 977,732; Dec. 6; Sp. p. 689; Gaz. vol. 161; p. 107.
Reel. C. E. Brinley. No. 978,431; Dec. 13; Sp. p. 2190; Gaz. vol. 161; p. 380.
Reel-cradle. H. B. Carter. No. 970,884; Sept. 20; Sp. p. 3733; Gaz. vol. 158; p. 638.
Reel for ruchings and the like. R. H. Hunt and A. C. La May. No. 950,851; Mar. 1; Sp. p. 829; Gaz. vol. 152; p. 133.
Reel-holder. W. McDougall. No. 955,980; Apr. 26; Sp. p. 4965; Gaz. vol. 153; p. 878.
Reel-holder. J. P. Weaver. No. 956,241; Apr. 26; Sp. p. 5554; Gaz. vol. 153; p. 968.
Reel-holder. J. P. Weaver. No. 956,242; Apr. 26; Sp. p. 5555; Gaz. vol. 153; p. 968.
Reel-holder. O. B. Wedell. No. 972,741; Oct. 11; Sp. p. 2682; Gaz. vol. 159; p. 455.
Reel or winding-machine. A. Skofsrud. No. 952,282; Mar. 15; Sp. p. 3681; Gaz. vol. 152; p. 658.
Reeling and other textile machines, Thread-tightening device for. J. Schweiter. No. 948,580; Feb. 8; Sp. p. 1686; Gaz. vol. 151; p. 294.
Reeling-machine. G. Gustave. No. 966,827; Aug. 9; Sp. p. 2166; Gaz. vol. 157; p. 356.
Reeling machine, Cocoon-. V. V. Weber. No. 962,279; June 21; Sp. p. 4286; Gaz. vol. 155; p. 740.
Reeling-machine reel. A. McLane and G. Sipp. No. 946,076; Jan. 11; Sp. p. 2363; Gaz. vol. 150; p. 392.
Refining-engine. W. White. No. 955,299; Apr. 19; Sp. p. 3460; Gaz. vol. 153; p. 614.
Refining-machine. J. C. Fleming. No. 960,529; June 7; Sp. p. 590; Gaz. vol. 155; p. 96.
Reflector. C. M. Fluke. No. 948,216; Feb. 1; Sp. p. 893; Gaz. vol. 151; p. 146.
Reflector. W. H. O'Beirne. No. 960,037; May 31; Sp. p. 7860; Gaz. vol. 154; p. 1319.
Reflector. J. C. Culligan. No. 975,215; Nov. 8; Sp. p. 2587; Gaz. vol. 160; p. 417.

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Reflector, Adjustable. A. S. Lyhne. No. 963,912; July 12; Sp. p. 1972; Gaz. vol. 156; p. 324.
Reflector and attachment. H. D'Olier, Jr. No. 945,448; Jan. 4; Sp. p. 947; Gaz. vol. 150; p. 149.
Reflector and attachment therefor. H. D'Olier, Jr. No. 957,148; May 3; Sp. p. 1374; Gaz. vol. 154; p. 220.
Reflector attachment. H. D'Olier, Jr. No. 959,205; May 24; Sp. p. 6049; Gaz. vol. 154; p. 1011.
Reflector attachment. H. D'Olier, Jr. No. 959,206; May 24; Sp. p. 6051; Gaz. vol. 154; p. 1011.
Reflector attachment, Electric-lamp. H. D'Olier, Jr. No. 977,939; Dec. 6; Sp. p. 1122; Gaz. vol. 161; p. 180.
Reflector, Electric-light. G. F. Allom. No. 961,196; June 14; Sp. p. 1937; Gaz. vol. 155; p. 350.
Reflector for electric lamps, Adjustable. H. Hubbell. No. 964,646; July 19; Sp. p. 3525; Gaz. vol. 156; p. 602.
Reflector for incandescent lamps. E. A. Gillinder. No. 960,306; June 7; Sp. p. 131; Gaz. vol. 155; p. 25.
Reflector for light-rays, Composite. O. A. Mygatt. No. 957,703; May 10; Sp. p. 2552; Gaz. vol. 154; p. 441.
Reflector for search-lights and the like. C. A. Parsons, G. G. Stoney, and E. Bennett. No. 964,050; July 12; Sp. p. 2259; Gaz. vol. 156; p. 371.
Reflector for store-windows and the like. T. Gaggs. No. 974,374; Nov. 1; Sp. p. 671; Gaz. vol. 160; p. 101.
Reflector, Headlight-. J. R. Pratt. No. 979,334; Dec. 20; Sp. p. 4150; Gaz. vol. 161; p. 715.
Reflector, Headlight-. A. R. Harrison. No. 979,852; Dec. 27; Sp. p. 5282; Gaz. vol. 161; p. 814.
Reflector, Lamp-. H. Zirwas. No. 975,669; Nov. 15; Sp. p. 3562; Gaz. vol. 160; p. 599.
Refractometer. N. A. Shigon. No. 979,578; Dec. 27; Sp. p. 4671; Gaz. vol. 161; p. 820.
Refractory composition. T. McMahon. No. 965,215; July 26; Sp. p. 4776; Gaz. vol. 156; p. 826.
Refractory compounds, Reduction of. F. J. Tone. No. 961,913; June 21; Sp. p. 3477; Gaz. vol. 155; p. 615.
Refractory material, Manufacturing. G. C., G. E., and A. W. Fludder. No. 976,996; Nov. 29; Sp. p. 6460; Gaz. vol. 160; p. 1102.
Refractory material, Reducing. J. W. Evans. No. 960,863; June 7; Sp. p. 1257; Gaz. vol. 155; p. 210.
Refractory substance. F. Grossmann. No. 951,113; Mar. 8; Sp. p. 1317; Gaz. vol. 152; p. 241.
Refrigerated serving-dish. W. H. Oskamp. No. 950,239; Feb. 22; Sp. p. 5229; Gaz. vol. 151; p. 917.
Refrigerating and ice-making apparatus. W. Pfleiderer and W. W. Harris. No. 953,972; Apr. 5; Sp. p. 565; Gaz. vol. 153; p. 102.
Refrigerating-apartments and similar structures, Door and doorway for. S. P. Stevenson. No. 962,174; June 21; Sp. p. 4066; Gaz. vol. 155; p. 706.
Refrigerating apparatus. H. G. Scherer. No. 948,101; Feb. 1; Sp. p. 670; Gaz. vol. 151; p. 109.
Refrigerating apparatus. W. Cooper. No. 950,463; Feb. 22; Sp. p. 5643; Gaz. vol. 151; p. 989.
Refrigerating apparatus. E. T. W. Hall. No. 952,040; Mar. 15; Sp. p. 3210; Gaz. vol. 152; p. 577.
Refrigerating apparatus. L. H. Brinkman. No. 958,852; May 24; Sp. p. 5308; Gaz. vol. 154; p. 894.
Refrigerating apparatus. F. D. Koerkle. No. 959,556; May 31; Sp. p. 6787; Gaz. vol. 154; p. 1154.
Refrigerating apparatus. J. B. Monette. No. 964,041; July 12; Sp. p. 2235; Gaz. vol. 156; p. 368.
Refrigerating apparatus. G. A. Bobrick. No. 966,076; Aug. 2; Sp. p. 500; Gaz. vol. 157; p. 81.
Refrigerating apparatus. J. E. Starr. No. 967,992; Aug. 23; Sp. p. 4561; Gaz. vol. 157; p. 800.
Refrigerating apparatus. B. J. Noyes. No. 973,548; Oct. 25; Sp. p. 4478; Gaz. vol. 159; p. 783.
Refrigerating apparatus, Milk-. C. N. Gille. No. 968,550; Aug. 30; Sp. p. 5782; Gaz. vol. 157; p. 1018.
Refrigerating apparatus, Safety system for. A. Gaide. No. 971,984; Oct. 4; Sp. p. 1053; Gaz. vol. 159; p. 176.
Refrigerating appliance. R. W. Emerson and F. Bishop. No. 962,704; June 28; Sp. p. 5217; Gaz. vol. 155; p. 911.
Refrigerating attachment for milk-cans. S. Shapiro. No. 960,046; May 31; Sp. p. 7874; Gaz. vol. 154; p. 1322.
Refrigerating-car. L. H. Lister. No. 977,412; Nov. 29; Sp. p. 7367; Gaz. vol. 160; p. 1245.
Refrigerating-chamber for cooling air. F. C. Roberts and R. H. Miller. No. 953,179; Mar. 29; Sp. p. 5593; Gaz. vol. 152; p. 1018.
Refrigerating liquids, Agitator for. A. H. Baer. No. 953,576; Mar. 29; Sp. p. 6454; Gaz. vol. 152; p. 1154.
Refrigerating-machine. M. Leblanc. No. 977,659; Dec. 6; Sp. p. 541; Gaz. vol. 161; p. 82.
Refrigerating-machine safety device. E. E. Trapp. No. 949,555; Feb. 15; Sp. p. 3719; Gaz. vol. 151; p. 647.
Refrigerating-machines, Apparatus for the automatic regulation of. F. A. Pollard. No. 971,788; Oct. 4; Sp. p. 580; Gaz. vol. 159; p. 101.
Refrigerating or cooling apparatus. G. Hildebrandt. No. 963,555; July 5; Sp. p. 1184; Gaz. vol. 156; p. 182.
Refrigerating plant. A. Kleine. No. 947,445; Jan. 25; Sp. p. 5433; Gaz. vol. 150; p. 910.
Refrigerating plants, Ammonia-purifier for. F. Nenzel. No. 950,491; Mar. 1; Sp. p. 62; Gaz. vol. 152; p. 11.
Refrigerating plants, Ammonia-purifier for. L. Wagner. No. 955,726; Apr. 19; Sp. p. 4407; Gaz. vol. 153; p. 760.
Refrigerating plants, Refrigerant receiver and expander for. F. Bishop. No. 952,063; Mar. 15; Sp. p. 3250; Gaz. vol. 152; p. 585.
Refrigerating system. E. Carpenter. No. 946,771; Jan. 18; Sp. p. 3932; Gaz. vol. 150; p. 654.
Refrigerating system. E. T. Winkler. No. 971,162; Sept. 27; Sp. p. 4304; Gaz. vol. 158; p. 757.
Refrigerating system. A. Faget. No. 971,182; Sept. 27; Sp. p. 4358; Gaz. vol. 158; p. 764.
Refrigerating system, Automatic absorption. G. P. Carroll. No. 978,557; Dec. 13; Sp. p. 2456; Gaz. vol. 161; p. 423.
Refrigeration. W. Cooper. No. 955,582; Apr. 19; Sp. p. 4046; Gaz. vol. 153; p. 710.
Refrigerator. T. J. Jackson. No. 945,542; Jan. 4; Sp. p. 1156; Gaz. vol. 150; p. 179.
Refrigerator. J. Goodchild. No. 945,778; Jan. 11; Sp. p. 1713; Gaz. vol. 150; p. 287.
Refrigerator. C. L. Haywood. No. 947,576; Jan. 25; Sp. p. 5745; Gaz. vol. 150; p. 954.
Refrigerator. L. Doran. No. 947,627; Jan. 25; Sp. p. 5853; Gaz. vol. 150; p. 971.
Refrigerator. F. I. Armstrong. No. 948,464; Feb. 8; Sp. p. 1431; Gaz. vol. 151; p. 256.
Refrigerator. H. Bieder. No. 948,756; Feb. 8; Sp. p. 2078; Gaz. vol. 151; p. 354.
Refrigerator. J. C. Hass and F. E. Mefford. No. 948,880; Feb. 8; Sp. p. 2316; Gaz. vol. 151; p. 394.
Refrigerator. H. Zerr. No. 949,252; Feb. 15; Sp. p. 3078; Gaz. vol. 151; p. 545.
Refrigerator. W. C. Coleman. No. 950,763; Mar. 1; Sp. p. 644; Gaz. vol. 152; p. 104.
Refrigerator. G. C. Bohn. No. 950,834; Mar. 1; Sp. p. 801; Gaz. vol. 152; p. 128.
Refrigerator. A. K. Cross. No. 951,058; Mar. 1; Sp. p. 1202; Gaz. vol. 152; p. 197.
Refrigerator. O. O. Owens. No. 952,627; Mar. 22; Sp. p. 4416; Gaz. vol. 152; p. 805.
Refrigerator. J. A. Moore. No. 953,050; Mar. 29; Sp. p. 5295; Gaz. vol. 152; p. 975.
Refrigerator. J. R. Wood. No. 954,906; Apr. 12; Sp. p. 2667; Gaz. vol. 153; p. 451.
Refrigerator. F. Lomax. No. 955,174; Apr. 19; Sp. p. 3184; Gaz. vol. 153; p. 572.
Refrigerator. J. G. Barnet. No. 955,574; Apr. 19; Sp. p. 4033; Gaz. vol. 153; p. 707.
Refrigerator. T. Henderson. No. 955,872; Apr. 26; Sp. p. 4738; Gaz. vol. 153; p. 840.
Refrigerator. F. E. Ranney. No. 956,415; Apr. 26; Sp. p. 5905; Gaz. vol. 153; p. 1027.
Refrigerator. T. G. McElroy. No. 959,376; May 24; Sp. p. 6390; Gaz. vol. 154; p. 1068.
Refrigerator. J. Thaubald. No. 963,485; July 5; Sp. p. 1043; Gaz. vol. 156; p. 158.
Refrigerator. E. D. Conroy. No. 964,900; July 19; Sp. p. 4152; Gaz. vol. 156; p. 692.
Refrigerator. F. Lutz. No. 965,473; July 26; Sp. p. 5342; Gaz. vol. 156; p. 914.
Refrigerator. N. Heymann. No. 965,711; July 26; Sp. p. 5874; Gaz. vol. 156; p. 997.
Refrigerator. E. A. and C. P. Cornillie. No. 971,526; Oct. 4; Sp. p. 32; Gaz. vol. 159; p. 8.
Refrigerator. V. L. Formentos. No. 972,074; Oct. 4; Sp. p. 1221; Gaz. vol. 159; p. 206.
Refrigerator. L. Allen. No. 974,734; Nov. 1; Sp. p. 1480; Gaz. vol. 160; p. 228.
Refrigerator. W. W. Dunbar. No. 976,446; Nov. 22; Sp. p. 5240; Gaz. vol. 160; p. 889.
Refrigerator. F. C. Schmidt. No. 977,332; Nov. 29; Sp. p. 7152; Gaz. vol. 160; p. 1218.
Refrigerator. C. F. Schafer. No. 978,492; Dec. 13; Sp. p. 2323; Gaz. vol. 161; p. 401.
Refrigerator. E. F. Hulbert. No. 979,304; Dec. 20; Sp. p. 4098; Gaz. vol. 161; p. 705.
Refrigerator. F. Westerbeck. No. 979,814; Dec. 27; Sp. p. 5198; Gaz. vol. 161; p. 901.
Refrigerator. W. H. Hill. No. 979,950; Dec. 27; Sp. p. 5474; Gaz. vol. 161; p. 946
Refrigerator-car. R. F. McGregor. No. 949,491; Feb. 15; Sp. p. 3589; Gaz. vol. 151; p. 625.
Refrigerator-car. J. Thornton and E. Heymanson. No. 952,382; Mar. 15; Sp. p. 3862; Gaz. vol. 152; p. 691.
Refrigerator-car. G. C. Bohn. No. 956,472; Apr. 26; Sp. p. 6036; Gaz. vol. 153; p. 1047.
Refrigerator-car. A. W. Watson. No. 971,478; Sept. 27; Sp. p. 4911; Gaz. vol. 158; p. 860.
Refrigerator-car hatch-closure. E. Posson. No. 957,252; May 10; Sp. p. 1627; Gaz. vol. 154; p. 287.
Refrigerator-car heater. R. M. Dixon. No. 968,331; Aug. 23; Sp. p. 5328; Gaz. vol. 157; p. 917.
Refrigerator, Cement or concrete. W. H. Knox. No. 952,817; Mar. 22; Sp. p. 4833; Gaz. vol. 152; p. 869.

Refrigerator drip-alarm device. E. J. Brophy. No. 969,153; Sept. 6; Sp. p. 5; Gaz. vol. 158; p. 3.
Refrigerator drip-pan. J. Menzl and B. L. Schwartz. No. 949,398; Feb. 15; Sp. p. 3413; Gaz. vol. 151; p. 596.
Refrigerator-lining. C. H. Zwermann. No. 963,198; July 5; Sp. p. 434; Gaz. vol. 156; p. 61.
Refrigerator-lining. W. H. Whittier. No. 970,672; Sept. 20; Sp. p. 3281; Gaz. vol. 158; p. 565.
Refrigerator, Mortuary. V. A. De Canio. No. 972,755; Oct. 11; Sp. p. 2703; Gaz. vol. 159; p. 460.
Refrigerator-mounting. F. Lutz. No. 971,059; Sept. 27; Sp. p. 4090; Gaz. vol. 158; p. 724.
Refrigerator or cold-storage apparatus. W. S. Barker. No. 976,619; Nov. 22; Sp. p. 5602; Gaz. vol. 160; p. 947.
Refrigerator-pail. L. I. Flood. No. 962,504; June 28; Sp. p. 4785; Gaz. vol. 155; p. 842.
Refrigerator-wagon body. C. M. Smith. No. 973,082; Oct. 18; Sp. p. 3458; Gaz. vol. 159; p. 599.
Refrigerator, Window cold-air. W. M. Howland. No. 975,954; Nov. 15; Sp. p. 4116; Gaz. vol. 160; p. 695.
Refrigerators and ice-boxes, Drip-cup for. A. May. No. 960,103; May 31; Sp. p. 7977; Gaz. vol. 154; p. 1340.
Refrigerators, Water-cooler for. J. S. Pratt. No. 958,890; May 24; Sp. p. 5412; Gaz. vol. 154; p. 907.
Refuse-destructors and other furnaces, Charging-door for. H. N. Leask. No. 965,718; July 26; Sp. p. 5887; Gaz. vol. 156; p. 1000.
Refuse-destructors, Means for charging. H. N. Leask. No. 974,680; Nov. 1; Sp. p. 1362; Gaz. vol. 160; p. 212.
Refuse-receptacle. C. Zitko. No. 952,173; Mar. 15; Sp. p. 3453; Gaz. vol. 152; p. 621.
Regenerative control system. W. Cooper. (Reissue.) No. 13,115; May 17; Sp. p. 4971; Gaz. vol. 154; p. 817.
Regenerative furnace. F. Meyer. No. 958,150; May 17; Sp. p. 3708; Gaz. vol. 154; p. 627.
Regenerative furnace. A. W. and C. W. Catton. No. 979,647; Dec. 27; Sp. p. 4817; Gaz. vol. 161; p. 845.
Regenerative reverberatory furnace. F. A. Leas. No. 962,644; June 28; Sp. p. 5084; Gaz. vol. 155; p. 889.
Regenerative reversing-furnace. L. L. Knox. No. 951,644; Mar. 8; Sp. p. 2395; Gaz. vol. 152; p. 415.
Regenerative reversing-furnace. L. L. Knox. No. 956,367; Apr. 26; Sp. p. 5814; Gaz. vol. 153; p. 1010.
Regenerative reversing-furnace. L. L. Knox. No. 978,822; Dec. 13; Sp. p. 3008; Gaz. vol. 161; p. 510.
Regenerator. E. Bender. No. 952,725; Mar. 22; Sp. p. 4625; Gaz. vol. 152; p. 838.
Regenerator. H. H. Dow. No. 977,605; Dec. 6; Sp. p. 436; Gaz. vol. 161; p. 64.
Register: *See* Account-register; Autographic register; Brake-register; Carrying-register; Cash-register; Cash and autographic register; Coin-register; Credit-register; Fare-register; Hot-air register; Lumber-register; Mail-box register; Meter-register; Name-register; Pool-register; Score-register; Side-wall register; Telephone-call register; Time-recording register; Toy cash-register; Ventilating-register.
Register. D. E. Scrafford. No. 950,160; Feb. 22; Sp. p. 5061; Gaz. vol. 151; p. 888.
Register. S. W. Potts. No. 950,601; Mar. 1; Sp. p. 287; Gaz. vol. 152; p. 47.
Register. R. Hewitt. No. 960,548; June 7; Sp. p. 637; Gaz. vol. 155; p. 103.
Register. W. I. Ohmer and J. E. McAllister. No. 963,928; July 12; Sp. p. 2000; Gaz. vol. 156; p. 329.
Register. C. Wright. No. 964,356; July 12; Sp. p. 2869; Gaz. vol. 156; p. 474.
Register. F. A. Wilson. No. 964,597; July 19; Sp. p. 3432; Gaz. vol. 156; p. 586.
Register. A. B. Wenink. No. 967,095; Aug. 9; Sp. p. 2713; Gaz. vol. 157; p. 446.
Register. H. McCormick. No. 967,816; Aug. 16; Sp. p. 4188; Gaz. vol. 157; p. 718.
Register or ventilator. J. H. Bailey. No. 978,129; Dec. 13; Sp. p. 1552; Gaz. vol. 161; p. 273.
Registers, Border for side-wall. J. Flood. No. 947,809; Feb. 1; Sp. p. 58; Gaz. vol. 151; p. 13.
Registers, Metallic leaf for account-. F. Moinett. No. 949,301; Feb. 15; Sp. p. 3186; Gaz. vol. 151; p. 562.
Registering apparatus. H. Hollerith. No. 974,272; Nov. 1; Sp. p. 431; Gaz. vol. 160; p. 64.
Registering device. B. Gustafson. No. 971,991; Oct. 4; Sp. p. 1068; Gaz. vol. 159; p. 179.
Registering-machine driving device. C. F. Kettering. No. 976,577; Nov. 22; Sp. p. 5521; Gaz. vol. 160; p. 933.
Registering-machines, Electric driving device for. C. F. Kettering. No. 959,548; May 31; Sp. p. 6765; Gaz. vol. 154; p. 1151.
Registering mechanism. S. C. Kinsey. No. 972,198; Oct. 11; Sp. p. 1498; Gaz. vol. 159; p. 266.
Registering mechanism. A. J. Diescher. No. 974,756; Nov. 1; Sp. p. 1536; Gaz. vol. 160; p. 236.
Regulating and reversing apparatus. H. Kopper. No. 956,106; Apr. 26; Sp. p. 5237; Gaz. vol. 153; p. 921.
Regulating apparatus. J. M. Dougherty and H. C. Tabler. No. 957,601; May 10; Sp. p. 2335; Gaz. vol. 154; p. 406.
Regulating device. C. G. Sprado. No. 954,057; Apr. 5; Sp. p. 750; Gaz. vol. 153; p. 131.
Regulator: *See* Air-regulator; Belt-regulator; Boiler-regulator; Clock-regulator; Compression-regulator; Controller-regulator; Current-regulator; Damper-regulator; Damper and air-regulator; Draft-regulator; Electric-voltage regulator; Engine speed-regulator; Escapement-regulator; Feed-regulator; Feed-water regulator; Feeder-regulator; Flour-mill feed-regulator; Flow-regulator; Fluid-regulator; Fluid-pressure regulator; Furnace-regulator; Furnace draft-regulator; Gas-regulator; Gas-pressure regulator; Grain-separator feed-regulator; Heat-regulator; Heater-regulator; Humidity-regulator; Lantern-regulator; Piano touch-regulator; Pressure-regulator; Pulp-feed regulator; Shutter-regulator; Speed-regulator; Temperature-regulator; Tension-regulator; Thermo-electric regulator; Tooth-regulator; Valve-regulator; Voltage-regulator; Volume-regulator; Watch-regulator; Water-regulator; Water-feed regulator; Water-level regulator; Windmill-regulator.
Regulator. L. R. Smith. No. 967,847; Aug. 16; Sp. p. 4257; Gaz. vol. 157; p. 728.
Regulator. A. B. Benjamin. No. 972,496; Oct. 11; Sp. p. 2122; Gaz. vol. 159; p. 369.
Rein and trace holder. E. Weerts and J. Wuebbenhorst. No. 951,163; Mar. 8; Sp. p. 1415; Gaz. vol. 152; p. 257.
Rein-button. E. G. Jegge. No. 947,992; Feb. 1; Sp. p. 441; Gaz. vol. 151; p. 71.
Rein check or stop. S. B. Anderson. No. 950,217; Feb. 22; Sp. p. 5180; Gaz. vol. 151; p. 909.
Rein-guide. W. Laudon. No. 948,453; Feb. 8; Sp. p. 1410; Gaz. vol. 151; p. 252.
Rein-holder. C. Lundby. No. 945,129; Jan. 4; Sp. p. 246; Gaz. vol. 150; p. 43.
Rein-holder. A. Crossan. No. 948,162; Feb. 1; Sp. p. 784; Gaz. vol. 151; p. 129.
Rein-holder. J. S. Brough. No. 957,738; May 10; Sp. p. 2616; Gaz. vol. 154; p. 453.
Rein-holder. C. M. Jensen. No. 959,143; May 24; Sp. p. 5918; Gaz. vol. 154; p. 991.
Rein-holder. E. P. Rasmussen. No. 959,259; May 24; Sp. p. 6158; Gaz. vol. 154; p. 1029.
Rein-holder. K. Tharraldson. No. 960,436; June 7; Sp. p. 395; Gaz. vol. 155; p. 66.
Rein-holder. R. C. Murdock. No. 963,622; July 5; Sp. p. 1324; Gaz. vol. 156; p. 204.
Rein-holding attachment for vehicles. J. M. Peterman. No. 951,220; Mar. 8; Sp. p. 1525; Gaz. vol. 152; p. 275.
Rein-protector. S. P. Roberts. No. 978,650; Dec. 13; Sp. p. 2684; Gaz. vol. 161; p. 457.
Rein-support. J. F. Freeland. No. 947,385; Jan. 4; Sp. p. 824; Gaz. vol. 150; p. 128.
Reins, Tension device for harness-. W. E. Woods. No. 951,716; Mar. 8; Sp. p. 2519; Gaz. vol. 152; p. 438.
Reinforcing-bar. A. L. Johnson. No. 967,390; Aug. 16; Sp. p. 3340; Gaz. vol. 157; p. 576.
Reinforcing-frames, Fitting for. G. M. Graham. No. 976,869; Nov. 29; Sp. p. 6134; Gaz. vol. 160; p. 1057.
Relasting-jack. W. L. C. Niles. No. 966,851; Aug. 9; Sp. p. 2213; Gaz. vol. 157; p. 364.
Relay. G. F. Atwood. No. 949,952; Feb. 22; Sp. p. 4573; Gaz. vol. 151; p. 817.
Relay. A. E. Stevens. No. 951,623; Mar. 8; Sp. p. 2354; Gaz vol. 152; p. 408.
Relay. A. S. Cubitt. No. 957,870; May 17; Sp. p. 2905; Gaz. vol. 154; p. 526.
Relay. I. Kitsee. No. 963,374; July 5; Sp. p. 819; Gaz. vol. 156; p. 121.
Relay. O. C. Dennis. No. 965,877; Aug. 2; Sp. p. 60; Gaz. vol. 157; p. 12.
Relay. H. Pöser. No. 966,764; Aug. 9; Sp. p. 2027; Gaz. vol. 157; p. 337.
Relay. D. J. McCarthy. No. 967,222; Aug. 16; Sp. p. 2984; Gaz. vol. 157; p. 517.
Relay. R. H. Manson. No. 977,114; Nov. 29; Sp. p. 6713; Gaz. vol. 160; p. 1143.
Relay. H. Gernsback. No. 978,999; Dec. 20; Sp. p. 3410; Gaz. vol. 161; p. 600.
Relay, Current-. A. S. Cubitt. No. 949,997; Feb. 22; Sp. p. 4715; Gaz. vol. 151; p. 833.
Relay, Electrical. E. E. Clement. No. 969,759; Sept. 6; Sp. p. 1302; Gaz. vol. 158; p. 209.
Relay, Electrical. L. A. Williams. No. 972,424; Oct. 11; Sp. p. 1966; Gaz. vol. 159; p. 345.
Relay, Electrical. C. H. North. No. 972,634; Oct. 11; Sp. p. 2463; Gaz. vol. 159; p. 419.
Relay, Electrical. J. F. Cadell. No. 972,814; Oct. 18; Sp. p. 2830; Gaz. vol. 159; p. 505.
Relay, Electrical. F. Ritchie. No. 976,216; Nov. 22; Sp. p. 4689; Gaz. vol. 160; p. 807.
Relay for block-signal systems. L. A. Hawkins. No. 967,192; Aug. 16; Sp. p. 2934; Gaz. vol. 157; p. 507.
Relay, Interlocking contact-. W. M. McClintock. No. 959,958; May 31; Sp. p. 7654; Gaz. vol. 154; p. 1291.
Relay mechanism. E. G. Tremaine. No. 966,624; Aug. 9; Sp. p. 1694; Gaz. vol. 157; p. 289.
Relay, Mercury-arc. J. B. Taylor. No. 953,361; Mar. 29; Sp. p. 5998; Gaz. vol. 152; p. 1078.
Relay or electromagnet, Electrical. E. E. Clement. No. 946,489; Jan. 11; Sp. p. 3333; Gaz. vol. 150; p. 536.
Relay, Polarized. W. K. Howe. No. 960,928; June 7; Sp. p. 1370; Gaz. vol. 155; p. 231.

Alphabetical list of inventions—Continued.

Relay, Reverse-current. E. M. Hewlett. No. 953,420; Mar. 29; Sp. p. 6120; Gaz. vol. 152; p. 1099.
Relay-switch. H. M. Scheibe. No. 959,613; May 31; Sp. p. 6895; Gaz. vol. 154; p. 1173.
Relay, Time-limit. E. H. Jacobs. No. 963,897; July 12; Sp. p. 1942; Gaz. vol. 156; p. 319.
Releasing device. C. Hunt. No. 955,163; Apr. 19; Sp. p. 3162; Gaz. vol. 153; p. 568.
Releasing device. J. N. McCrary. No. 963,310; July 5; Sp. p. 696; Gaz. vol. 156; p. 100.
Relief device. R. Conrader. No. 962,551; June 28; Sp. p. 4900; Gaz. vol. 155; p. 859.
Relishing-machine. J. H. Burke. No. 967,495; Aug. 16; Sp. p. 3555; Gaz. vol. 157; p. 611.
Remedy for swine fever, plague, &c. L. Bader. No. 979,054; Dec. 20; Sp. p. 3533; Gaz. vol. 161; p. 618.
Remedy for swine-plague. A. Frankl. No. 953,947; Apr. 5; Sp. p. 521; Gaz. vol. 153; p. 94.
Remedy, Pile. M. Straub. No. 979,395; Dec. 20; Sp. p. 4265; Gaz. vol. 161; p. 734.
Removable nail. V. C. de Ybarrondo. No. 975,310; Nov. 8; Sp. p. 2784; Gaz. vol. 160; p. 450.
Removable-rim wheel. R. H. Buckingham. No. 954,076; Apr. 5; Sp. p. 790; Gaz. vol. 153; p. 137.
Rendering apparatus. C. H. A. Wannenwetsch. No. 973,324; Oct. 18; Sp. p. 3993; Gaz. vol. 159; p. 683.
Rendering-tank and press, Steam. C. H. Stadler. No. 948,258; Feb. 1; Sp. p. 975; Gaz. vol. 151; p. 160.
Repair-gland. O. K. Negley. No. 976,204; Nov. 22; Sp. p. 4660; Gaz. vol. 160; p. 803.
Repair member. J. Heck. No. 954,098; Apr. 5; Sp. p. 849; Gaz. vol. 153; p. 146.
Rerailer. T. W. J. McGann. No. 976,137; Nov. 15; Sp. p. 4494; Gaz. vol. 160; p. 758.
Rerailing-frog. W. Martley. No. 957,230; May 10; Sp. p. 1585; Gaz. vol. 154; p. 280.
Reservoir head-gate. W. F. Garbe. No. 966,192; Aug. 2; Sp. p. 751; Gaz. vol. 157; p. 119.
Reservoirs, Apparatus for forcing liquid out of. L. Barbas. No. 959,694; May 31; Sp. p. 7059; Gaz. vol. 154; p. 1199.
Resilient block. N. J. Busby. No. 978,689; Dec. 13; Sp. p. 2752; Gaz. vol. 161; p. 469.
Resilient connection. J. E. Webster. (Reissue.) No. 13,165; Nov. 8; Sp. p. 2945; Gaz. vol. 160; p. 475.
Resilient connection device for relatively movable parts. J. G. Nolen and J. Shepherd. No. 961,312; June 14; Sp. p. 2200; Gaz. vol. 155; p. 391.
Resilient wheel. M. C. Overman. No. 950,299; Feb. 22; Sp. p. 5339; Gaz. vol. 151; p. 937.
Resilient wheel. H. H. Browne and J. M. Asher, Jr. No. 950,761; Mar. 1; Sp. p. 641; Gaz. vol. 152; p. 103.
Resilient wheel. C. J. Craig. No. 951,802; Mar. 15; Sp. p. 2731; Gaz. vol. 152; p. 499.
Resilient wheel. G. A. Spaeth. No. 959,176; May 24; Sp. p. 5994; Gaz. vol. 154; p. 1002.
Resilient wheel. A. H. Peloubet. No. 962,975; June 28; Sp. p. 5732; Gaz. vol. 155; p. 1004.
Resilient wheel. F. Hank. No. 964,249; July 12; Sp. p. 2655; Gaz. vol. 156; p. 437.
Resilient wheel. W. Welsh and W. Purvis. No. 964,351; July 12; Sp. p. 2863; Gaz. vol. 156; p. 472.
Resilient wheel. J. G. Daw. No. 967,887; Aug. 23; Sp. p. 4335; Gaz. vol. 157; p. 765.
Resilient wheel. W. S. Houser. No. 970,229; Sept. 13; Sp. p. 2337; Gaz. vol. 158; p. 393.
Resilient wheel. M. B. Pierson. No. 971,557; Oct. 4; Sp. p. 104; Gaz. vol. 159; p. 20.
Resilient wheel. J. J. Stone and J. A. Simpson. No. 972,283; Oct. 11; Sp. p. 1685; Gaz. vol. 159; p. 296.
Resilient wheel. H. E. Moebus. No. 976,591; Nov. 22; Sp. p. 5552; Gaz. vol. 160; p. 938.
Resilient wheel. L. F. Delaney. No. 976,989; Nov. 29; Sp. p. 6439; Gaz. vol. 160; p. 1099.
Resilient wheel. L. L. Daum. No. 979,265; Dec. 20; Sp. p. 4029; Gaz. vol. 161; p. 693.
Resilient wheel for road-vehicles. T. Oldfield and J. A. Schofield. No. 958,273; May 17; Sp. p. 3963; Gaz. vol. 154; p. 668.
Resilient wheel or tire. R. V. Wagner. No. 951,209; Mar. 8; Sp. p. 1501; Gaz. vol. 152; p. 271.
Resistance-box. L. T. Robinson. No. 963,395; July 5; Sp. p. 871; Gaz. vol. 156; p. 128.
Resistance-coil. I. E. Coffey. No. 971,525; Oct. 4; Sp. p. 29; Gaz. vol. 159; p. 7.
Resistance device. G. Hookham. No. 946,364; Jan. 11; Sp. p. 2967; Gaz. vol. 150; p. 493.
Resistance device. H. W. Leonard. No. 977,456; Dec. 6; Sp. p. 58; Gaz. vol. 161; p. 12.
Resistance-grid. H. W. Cheney. No. 945,082; Jan. 4; Sp. p. 161; Gaz. vol. 150; p. 26.
Resistance-grid. B. Haskins. No. 945,092; Jan. 4; Sp. p. 181; Gaz. vol. 150; p. 31.
Resistance-grid. N. Wilkinson. No. 945,116; Jan. 4; Sp. p. 226; Gaz. vol. 150; p. 38.
Resistance-grid. H. W. Cheney. No. 973,000; Oct. 18; Sp. p. 3287; Gaz. vol. 159; p. 572.
Resistance-terminal. F. D. Hallock. No. 946,576; Jan. 18; Sp. p. 3504; Gaz. vol. 150; p. 589.
Resistance unit. E. Thomson. No. 945,993; Jan. 11; Sp. p. 2198; Gaz. vol. 150; p. 365.
Resistance unit. E. N. Lightfoot. No. 947,247; Jan. 25; Sp. p. 4941; Gaz. vol. 150; p. 842.
Resistance unit. L. F. Parkhurst. No. 953,393; Mar. 29; Sp. p. 6068; Gaz. vol. 152; p. 1090.
Resistant surface and making the same. C. B. Jacobs. No. 954,965; Apr. 12; Sp. p. 2781; Gaz. vol. 153; p. 471.
Respiration apparatus for use in coal-mines and other places. W. E. Garforth. No. 953,462; Mar. 29; Sp. p. 6206; Gaz. vol. 152; p. 1113.
Respirator and inhaler. R. Venner. No. 958,569; May 17; Sp. p. 4693; Gaz. vol. 154; p. 771.
Respirator and the like. J. Eriksson and P. M. Arvidsson. No. 950,816; Mar. 1; Sp. p. 767; Gaz. vol. 152; p. 122.
Respirator, Intravaginal infantile. W. E. Kelly. No. 954,519; Apr. 12; Sp. p. 1760; Gaz. vol. 153; p. 316.
Respirator, (smoke-protector.) M. Panian. No. 958,427; May 17; Sp. p. 4415; Gaz. vol. 154; p. 723.
Retard device. F. J. W. Weiser. No. 976,965; Nov. 29; Sp. p. 6393; Gaz. vol. 160; p. 1092.
Retoothing-machine. J. P. Hedstrom. No. 953,692; Apr. 5; Sp. p. 25; Gaz. vol. 153; p. 7.
Retort-door-locking means. C. F. Pickton. No. 965,221; July 26; Sp. p. 4784; Gaz. vol. 156; p. 827.
Retort-furnace. N. H. Freeman. No. 949,178; Feb. 15; Sp. p. 2934; Gaz. vol. 151; p. 520.
Retorts, Apparatus for opening or closing the discharge-openings of vertical. C. Bolz. No. 972,674; Oct. 11; Sp. p. 2531; Gaz. vol. 159; p. 431.
Retouching-frame. W. O. Dumke. No. 969,047; Aug. 30; Sp. p. 6819; Gaz. vol. 157; p. 1188.
Retting process by pectic aerobic microbes in a gas-current, Industrial microbiological vegetal. G. Rossi. No. 977,133; Nov. 29; Sp. p. 6758; Gaz. vol. 160; p. 1150.
Reverberatory furnace. F. A. Burns. No. 960,499; June 7; Sp. p. 521; Gaz. vol. 155; p. 87.
Reverberatory furnace. F. W. Winkler. No. 966,285; Aug. 2; Sp. p. 939; Gaz. vol. 157; p. 149.
Reversing mechanism. J. R. Golter. No. 947,661; Jan. 25; Sp. p. 5919; Gaz. vol. 150; p. 983.
Reversing mechanism. G. W. Freeland. No. 948,781; Feb. 8; Sp. p. 2129; Gaz. vol. 151; p. 362.
Reversing mechanism. A. R. Murray. No. 975,982; Nov. 15; Sp. p. 4163; Gaz. vol. 160; p. 704.
Reversing mechanism, Fluid-operated rotary-movement-. G. A. Fowler. No. 976,998; Nov. 29; Sp. p. 6462; Gaz. vol. 160; p. 1103.
Reversing-switch. G. H. Whittingham. No. 965,671; July 26; Sp. p. 5779; Gaz. vol. 156; p. 983.
Reversing-switch, Electric. J. F. Cavanagh. No. 972,999; Oct. 18; Sp. p. 3284; Gaz. vol. 159; p. 571.
Reversing-switch, Overload. T. E. Barnum. No. 949,874; Feb. 22; Sp. p. 4409; Gaz. vol. 151; p. 789.
Revetment. J. A. Norton. No. 951,426; Mar. 8; Sp. p. 1964; Gaz. vol. 152; p. 342.
Revetment. F. W. Hawkes. No. 954,283; Apr. 5; Sp. p. 1248; Gaz. vol. 153; p. 207.
Revetment for the protection of slopes, embankments, walls of canals, &c. R. R. L. de Muralt. No. 953,051; Mar. 29; Sp. p. 5296; Gaz. vol. 152; p. 976.
Revoluble sizing-screen. L. E. Warner. No. 973,149; Oct. 18; Sp. p. 3613; Gaz. vol. 159; p. 623.
Revolver. O. W. Ringqvist. No. 968,691; Aug. 30; Sp. p. 6111; Gaz. vol. 157; p. 1069.
Revolver. A. Fyrberg. No. 975,685; Nov. 15; Sp. p 3583; Gaz. vol. 160; p. 603.
Revolver, Automatic. G. Vander Haeghen. No. 946,351; Jan. 11; Sp. p. 2942; Gaz. vol. 150; p. 489.
Revolver safety device. J. H. Wesson. No. 961,188; June 14; Sp. p. 1913; Gaz. vol. 155; p. 347.
Revolver safety device. J. H. Wesson. No. 961,189; June 14; Sp. p. 1914; Gaz. vol. 155; p. 347.
Revolvers, Knife attachment for. H. H. Hull. No. 946,132; Jan. 11; Sp. p. 2462; Gaz. vol. 150; p. 411.
Revolvers, Subcaliber for. E. B. Vedder. No. 969,011; Aug. 30; Sp. p. 6749; Gaz. vol. 157; p. 1176.
Revolving chair and like article of furniture. H. G. Hunn. No. 968,565; Aug. 30; Sp. p. 5816; Gaz. vol. 157; p. 1024.
Revolving cutter. J. H. Barker. No. 959,104; May 24; Sp. p. 5841; Gaz. vol. 154; p. 978.
Revolving-cylinder motor, Reversible. W. C. Smith. No. 953,979; Apr. 5; Sp. p. 581; Gaz. vol. 153; p. 105.
Revolving furnace for volatilizing metals from their ores. H. H. Hughes. (Reissue.) No. 13,118; May 31; Sp. p. 8250; Gaz. vol. 154; p. 1388.
Revolving screen for washing, &c. L. Perret. No. 972,128; Oct. 4; Sp. p. 1329; Gaz. vol. 159; p. 224.
Revolving self-cleaning screen. L. T. Grootenhuis. No. 969,364; Sept. 6; Sp. p. 455; Gaz. vol. 158; p. 74.
Revolving table. C. B. Reed. No. 955,827; Apr. 19; Sp. p. 4600; Gaz. vol. 153; p. 795.
Revolving tiltable chair. M. Dexter. No. 956,949; May 3; Sp. p. 966; Gaz. vol. 154; p. 154.
Rheostat. F. W. Harris. No. 946,544; Jan. 18; Sp. p. 3452; Gaz. vol. 150; p. 580.
Rheostat. H. J. Wiegand. No. 949,923; Feb. 22; Sp. p. 4519; Gaz. vol. 151; p. 807.
Rheostat. W. C. Yates. No. 958,457; May 17; Sp. p. 4487; Gaz. vol. 154; p. 734.
Rheostat. F. D. Hallock. No. 958,869; May 24; Sp. p. 5360; Gaz. vol. 154; p. 899.

Rheostat. H. Hertzberg and M. J. Wohl. No. 965,299; July 26; Sp. p. 4955; Gaz. vol. 156; p. 854.
Rheostat for electric motors, Regulating-. F. D. Hallock. No. 959,005; May 24; Sp. p. 5626; Gaz. vol. 154; p. 945.
Rheostat, Liquid. F. Mackintosh. No. 963,163; July 5; Sp. p. 343; Gaz. vol. 156; p. 49.
Rheostat, Regulating-. F. D. Hallock. No. 958,806; May 24; Sp. p. 5201; Gaz. vol. 154; p. 877.
Rheostat, Starting-. F. D. Hallock. No. 958,870; May 24; Sp. p. 5362; Gaz. vol. 154; p. 900.
Ribbing and expanding machine. T. H. Kane. No. 968,361; Aug. 23; Sp. p. 5379; Gaz. vol. 157; p. 928.
Ribbon-bolt. H. S. Moyer. No. 959,781; May 31; Sp. p. 7235; Gaz. vol. 154; p. 1228.
Ribbon-clip. A. L. Kahn. No. 958,877; May 24; Sp. p. 5381; Gaz. vol. 154; p. 902.
Ribbon-fastener and sales-index. D. H. Woodman. No. 948,490; Feb. 8; Sp. p. 1501; Gaz. vol. 151; p. 265.
Ribbon-fastener and sales-index. D. H. Woodman. No. 963,263; July 5; Sp. p. 608; Gaz. vol. 156; p. 84.
Ribbon-feeding mechanism. J. B. Secor. No. 952,281; Mar. 15; Sp. p. 3673; Gaz. vol. 152; p. 658.
Ribbon-feeding mechanism. R. B. Craig and A. Coffman. No. 964,851; July 19; Sp. p. 4049; Gaz. vol. 156; p. 674.
Ribbon-feeding mechanism. J. S. Duncan. No. 970,028; Sept. 13; Sp. p. 1917; Gaz. vol. 158; p. 326.
Ribbon-holder. A. Morgan. No. 957,700; May 10; Sp. p. 2545; Gaz. vol. 154; p. 440.
Ribbon-holding device. H. Malick. No. 970,446; Sept. 13; Sp. p. 2764; Gaz. vol. 158; p. 465.
Ribbon-holding device. M. L. Ford. No. 979,456; Dec. 27; Sp. p. 4399; Gaz. vol. 161; p. 778.
Ribbon-vibrating mechanism. T. E. Buschmann. No. 949,818; Feb. 22; Sp. p. 4269; Gaz. vol. 151; p. 770.
Riddle. E. H. Mumford. No. 979,685; Dec. 27; Sp. p. 4894; Gaz. vol. 161; p. 857.
Riffle for concentrating-tables. A. M. Kemp, M. W. Loomis, and J. E. Fitzwater. No. 963,582; July 5; Sp. p. 1249; Gaz. vol. 156; p. 191.
Rifle. H. Sunngård. No. 952,765; Mar. 22; Sp. p. 4711; Gaz. vol. 152; p. 851.
Rifle. C. Hamilton. No. 967,123; Aug. 9; Sp. p. 2788; Gaz. vol. 157; p. 457.
Rifle, Automatic. M. W. Brown. No. 966,995; Aug. 9; Sp. p. 2508; Gaz. vol. 157; p. 413.
Rifle-range, target, and the like. A. Whitney. No. 953,501; Mar. 29; Sp. p. 6293; Gaz. vol. 152; p. 1128.
Rifle, rubber ball, and pop-gun, Combined air-. E. S. Roe. No. 977,549; Dec. 6; Sp. p. 309; Gaz. vol. 161; p. 45.
Rifle-sight. E. J. Pilblad. No. 963,389; July 5; Sp. p. 858; Gaz. vol. 156; p. 127.
Rifles, Stock-magazine for single-shot. W. J. Rodgers. No. 950,515; Mar. 1; Sp. p. 117; Gaz. vol. 152; p. 19.
Rigging or scaffold support. G. Robb. No. 961,018; June 7; Sp. p. 1567; Gaz. vol. 155; p. 263.
Rim and mortise lock, Combined. C. A. Berry. No. 957,139; May 3; Sp. p. 1357; Gaz. vol. 154; p. 217.
Rim and tire, Adjustable. H. C. Smith. No. 969,416; Sept. 6; Sp. p. 565; Gaz. vol. 158; p. 91.
Rim-bearing wheel. E. J. Baisden. No. 970,291; Sept. 13; Sp. p. 2460; Gaz. vol. 158; p. 414.
Rim, Demountable. E. J. Bushey. No. 954,375; Apr. 5; Sp. p. 1434; Gaz. vol. 153; p. 239.
Rim, Demountable. E. J. Estey. No. 974,251; Nov. 1; Sp. p. 378; Gaz. vol. 160; p. 55.
Rim, Reinforced wood. E. J. Lobdell. No. 964,984; July 19; Sp. p. 4308; Gaz. vol. 156; p. 719.
Ring: *See* Annealing-ring; Button-ring; Curtain-ring; Embroidery-ring; Finger-ring; Hame-ring; Key-ring; Packing-ring; Pipe-coupling clamping-ring; Piston-ring; Plunger-lubricating ring; Spinning-ring.
Ring and flier doubling-frame. A. Bent and J. H. Whiteley. No. 965,065; July 19; Sp. p. 4481; Gaz. vol. 156; p. 746.
Ring and hook, Convertible. G. Beer. No. 959,836; May 31; Sp. p. 7373; Gaz. vol. 154; p. 1248.
Ring-blanks and applying them to articles, Machine for producing. J. J. Rigby. No. 962,786; June 28; Sp. p. 5387; Gaz. vol. 155; p. 941.
Ring-gage. G. G. Worstall. No. 947,879; Feb. 1; Sp. p. 223; Gaz. vol. 151; p. 36.
Ring holder, Rotary-. B. Hall. No. 952,803; Mar. 22; Sp. p. 4803; Gaz. vol. 152; p. 864.
Ring member and applying it to the edge of an article, Producing a seamless. J. J. Rigby. No. 968,804; Aug. 30; Sp. p. 6343; Gaz. vol. 157; p. 1105.
Rings, Holder for rotary. B. Hall. No. 958,392; May 17; Sp. p. 4356; Gaz. vol. 154; p. 711.
Rings, Machine for marking finger-. H. Henrich. No. 979,297; Dec. 20; Sp. p. 4087; Gaz. vol. 161; p. 703.
Ringing-key, Selective. B. W. Sweet. No. 947,722; Jan. 25; Sp. p. 6021; Gaz. vol. 150; p. 1003.
Ringing-machine. J. Burge. No. 973,340; Oct. 18; Sp. p. 4031; Gaz. vol. 159; p. 690.
Ringing system for party-lines, Harmonic selective-. H. D. Currier. No. 955,253; Apr. 19; Sp. p. 3368; Gaz. vol. 153; p. 600.
Rinser and sterilizer, Combined. B. W. Beach. No. 972,746; Oct. 11; Sp. p. 2688; Gaz. vol. 159; p. 456.
Ripping and trimming implement. J. B. Weir. No. 949,669; Feb. 15; Sp. p. 3020; Gaz. vol. 151; p. 683.
Riprap. W. Airhart. No. 964,362; July 12; Sp. p. 2879; Gaz. vol. 156; p. 475.
Riprapping system. J. M. Maher. No. 975,551; Nov. 15; Sp. p. 3292; Gaz. vol. 160; p. 558.
Rivers, System to prevent the overflowing of. J. Bryan. No. 969,334; Sept. 6; Sp. p. 386; Gaz. vol. 158; p. 62.
Rivet. E. B. Stimpson. No. 951,997; Mar. 15; Sp. p. 3127; Gaz. vol. 152; p. 564.
Rivet. E. B. Stimpson. No. 959,177; May 24; Sp. p. 5995; Gaz. vol. 154; p. 1002.
Rivet. E. B. Stimpson. No. 962,794; June 28; Sp. p. 5403; Gaz. vol. 155; p. 943.
Rivet. G. A. Goss. No. 968,551; Aug. 30; Sp. p. 5784; Gaz. vol. 157; p. 1019.
Rivet-calking tool. G. E. Wood and E. C. Meier. No. 959,673; May 31; Sp. p. 7025; Gaz. vol. 154; p. 1193.
Rivet-drilling machine. A. Gerrard. No. 976,453; Nov. 22; Sp. p. 5252; Gaz. vol. 160; p. 891.
Rivet-holding apparatus. W. T. Smith. No. 966,257; Aug. 2; Sp. p. 884; Gaz. vol. 157; p. 140.
Rivet-making means. D. G. Clark. No. 967,327; Aug. 16; Sp. p. 3194; Gaz. vol. 157; p. 557.
Rivet-setting machine, Single-head multiple. A. R. Havener. No. 959,738; May 31; Sp. p. 7152; Gaz. vol. 154; p. 1214.
Rivet, Tubular. J. A. Doran. No. 964,407; July 12; Sp. p. 2968; Gaz. vol. 156; p. 490.
Rivets, Making. D. G. Clark. No. 970,687; Sept. 20, Sp. p. 3316; Gaz. vol. 158; p. 570.
Riveter. L. L. Amspacker. No. 952,595; Mar. 22; Sp. p. 4334; Gaz. vol. 152; p. 793.
Riveting device. J. Tischler. No. 948,980; Feb. 8; Sp. p. 2524; Gaz. vol. 151; p. 429.
Riveting-machine. O. A. Anderson. No. 945,670; Jan. 4; Sp. p. 1417; Gaz. vol. 150; p. 221.
Riveting-machine. W. Baker. No. 971,483; Sept. 27; Sp. p. 4918; Gaz. vol. 158; p. 862.
Riveting-machine. J. Gillespie. No. 972,689; Oct. 11; Sp. p. 2562; Gaz. vol. 159; p. 436.
Riveting-machine. F. Thompson. No. 977,344; Nov. 29; Sp. p. 7187; Gaz. vol. 160; p. 1222.
Riveting-machine, Hydraulic. W. H. Wood. No. 956,253; Apr. 26; Sp. p. 5571; Gaz. vol. 153; p. 972.
Riveting or punching machine. M. W. Talen. No. 952,151; Mar. 15; Sp. p. 3412; Gaz. vol. 152; p. 614.
Riveting-tool. J. C. Woberman. No. 948,265; Feb. 1; Sp. p. 986; Gaz. vol. 151; p. 163.
Riveting-tool, Pneumatic. C. Weatherson. No. 979,617; Dec. 27; Sp. p. 4753; Gaz. vol. 161; p. 835.
Road and street construction. J. H. Amies. No. 966,982; Aug. 9; Sp. p. 2480; Gaz. vol. 157; p. 408.
Road-bed. S. W. Lyman. No. 969,966; Sept. 13; Sp. p. 1785; Gaz. vol. 158; p. 303.
Road construction. J. H. Amies. No. 945,999; Jan. 11; Sp. p. 2211; Gaz. vol. 150; p. 367.
Road construction. J. H. Amies. No. 958,064; May 17; Sp. p. 3538; Gaz. vol. 154; p. 596.
Road-dressers, Retaining means for teeth of. H. L. Eggleston. No. 969,850; Sept. 13; Sp. p. 1538; Gaz. vol. 158; p. 264.
Road-machine. J. A. Ferguson. No. 949,117; Feb. 15; Sp. p. 2823; Gaz. vol. 151; p. 499.
Road-machine. M. M. Sickler. No. 975,295; Nov. 8; Sp. p. 2742; Gaz. vol. 160; p. 444.
Road-machine. W. K. Stebbins. No. 975,580; Nov. 15; Sp. p. 3352; Gaz. vol. 160; p. 569.
Road-machine. H. B. and H. C. Moulthrop. No. 975,783; Nov. 15; Sp. p. 3780; Gaz. vol. 160; p. 636.
Road-machine, Manually-propelled. W. T. Venable. No. 949,102; Feb. 15; Sp. p. 2781; Gaz. vol. 151; p. 494.
Road-making machine. A. O. Lombard. No. 945,560; Jan. 4; Sp. p. 1197; Gaz. vol. 150; p. 185.
Road-roller. F. F. Williamson and D. Brennan, Jr. No. 958,346; May 17; Sp. p. 4258; Gaz. vol. 154; p. 695.
Road-roller. M. J. Todd. No. 976,012; Nov. 15; Sp. p. 4221; Gaz. vol. 160; p. 715.
Road-roller-steering mechanism. J. G. Brown and G. T. Bacon. No. 963,509; July 5; Sp. p. 1093; Gaz. vol. 156; p. 166.
Road-scarifier, Rotary. W. A. Gillette. No. 978,016; Dec. 6; Sp. p. 1282; Gaz. vol. 161; p. 205.
Road-smoothing device. F. W. Lechner. No. 952,338; Mar. 15; Sp. p. 3788; Gaz. vol. 152; p. 677.
Road-working machine. E. B. Winters. No. 946,187; Jan. 11; Sp. p. 2595; Gaz. vol. 150; p. 430.
Road-working machine. J. M. Parcel, Sr. No. 950,457; Feb. 22; Sp. p. 5627; Gaz. vol. 151; p. 987.
Roads, Making. L. S. Van Westrum. No. 956,009; Apr. 26; Sp. p. 5021; Gaz. vol. 153; p. 888.
Roaster: *See* Coffee-roaster; Ore-roaster; Peanut-roaster.
Roasting-furnace. G. H. Niles. No. 945,041; Jan. 4; Sp. p. 67; Gaz. vol. 150; p. 13.
Roasting-furnace. C. Robinson. No. 968,265; Aug. 23; Sp. p. 5185; Gaz. vol. 157; p. 893.
Roasting-furnace, Self-heating hot-blast. W. M. Barker. No. 961,081; June 7; Sp. p. 1704; Gaz. vol. 155; p. 283.
Roasting-pan. J. Kautz. No. 965,636; July 26; Sp. p. 5720; Gaz. vol. 156; p. 972.
Robe, Automobile-. J. P. Gordon. No. 976,866; Nov. 29; Sp. p. 6130; Gaz. vol. 160; p. 1056.

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Robe, Bed-. E. C. Hampton. No. 971,992; Oct. 4; Sp. p. 1071; Gaz. vol. 159; p. 179.
Rock breaker and crusher. W. J. Cochran. No. 966,651; Aug. 9; Sp. p. 1741; Gaz. vol. 157; p. 297.
Rock-breaker, Subaqueous. B. H. Coffey. No. 948,989; Feb. 15; Sp. p. 2545; Gaz. vol. 151; p. 458.
Rock-crusher. D. C. Prescott. No. 964,183; July 12; Sp. p. 2520; Gaz. vol. 156; p. 415.
Rock-drill. A. Avery. No. 945,209; Jan. 4; Sp. p. 420; Gaz. vol. 150; p. 70.
Rock-drill. L. F. Sleade. No. 945,624; Jan. 4; Sp. p. 1325; Gaz. vol. 150; p. 206.
Rock-drill. R. F. Yourtee and W. E. Maull. No. 946,420; Jan. 11; Sp. p. 3187; Gaz. vol. 150; p. 513.
Rock-drill. G. W. Smith. No. 954,706; Apr. 12; Sp. p. 2170; Gaz. vol. 153; p. 379.
Rock-drill. J. W. Selleck and F. C. Sharp. No. 954,826; Apr. 12; Sp. p. 2480; Gaz. vol. 153; p. 422.
Rock-drill. J. S. Harlow. No. 955,591; Apr. 19; Sp. p. 4087; Gaz. vol. 153; p. 713.
Rock-drill. H. A. Dalmas. No. 956,044; Apr. 26; Sp. p. 5097; Gaz. vol. 153; p. 900.
Rock-drill. H. J. Hibschle. No. 962,350; June 21; Sp. p. 4432; Gaz. vol. 155; p. 764.
Rock-drill. H. J. H. Nathorst. No. 964,875; July 19; Sp. p. 4096; Gaz. vol. 156; p. 683.
Rock-drill. E. M. Mackie and P. F. Doyle. No. 965,474; July 26; Sp. p. 5343; Gaz. vol. 156; p. 914.
Rock-drill. S. W. Brothers. No. 976,981; Nov. 29; Sp. p. 6425; Gaz. vol. 160; p. 1097.
Rock-drill. C. A. Hultquist. No. 978,586; Dec. 13; Sp. p. 2549; Gaz. vol. 161; p. 434.
Rock-drill. G. R. Bennett. No. 978,981; Dec. 20; Sp. p. 3375; Gaz. vol. 161; p. 593.
Rock-drill, Air or steam. J. Redington. No. 971,638; Oct. 4; Sp. p. 270; Gaz. vol. 159; p. 48.
Rock-drill, Electric. O. S. Proctor. No. 955,899; Apr. 26; Sp. p. 4801; Gaz. vol. 153; p. 849.
Rock-drill extractor. W. E. Weekes. No. 965,054; July 19; Sp. p. 4458; Gaz. vol. 156; p. 742.
Rock-drill, Fluid-operated. C. B. Richards. No. 967,239; Aug. 16; Sp. p. 3024; Gaz. vol. 157; p. 523.
Rock-drill, Power. S. S. Stevenson. No. 972,726; Oct. 11; Sp. p. 2647; Gaz. vol. 159; p. 449.
Rock-drill spraying device. W. J. Barnett. No. 956,026; Apr. 26; Sp. p. 5050; Gaz. vol. 153; p. 893.
Rock-drills and the like, Feeding mechanism for. G. R. Bennett. No. 964,605; July 19; Sp. p. 3447; Gaz vol. 156; p. 589.
Rock-drilling bit. T. Connell. No. 973,407; Oct. 18; Sp. p. 4181; Gaz. vol. 159; p. 712.
Rock-drilling machine. L. West. No. 953,651; Mar. 29; Sp. p. 6606; Gaz. vol. 152; p. 1179.
Rock-extractor for drill-holes. C. Desmarais. No. 973,013; Oct. 18; Sp. p. 3315; Gaz. vol. 159; p. 576.
Rock-gathering machine. C. C. Moore. No. 965,115; July 19; Sp. p. 4571; Gaz. vol. 156; p. 762.
Rock-pulverizing machine. J. B. Rossman. No. 971,311; Sept. 27; Sp. p. 4604; Gaz. vol. 158; p. 806.
Rocket. T. G. Hitt. No. 957,210; May 10; Sp. p. 1536; Gaz. vol. 154; p. 272.
Rocket, Floating and luminous line-carrying. H. E. A. Guérard. No. 947,904; Feb. 1; Sp. p. 267; Gaz. vol. 151; p. 44.
Rocket, Gyroscopic. N. Gherassimoff. No. 976,732; Nov. 22; Sp. p. 5813; Gaz. vol. 160; p. 985.
Rocket-head grapple. J. C. Hall and J. Saborne. No. 952,805; Mar. 22; Sp. p. 4806; Gaz. vol. 152; p. 865.
Rocking-chair. J. Smith. No. 956,547; May 3; Sp. p. 88; Gaz. vol. 154; p. 16.
Rocking-chair, Child's. A. W. Pressler. No. 947,579; Jan. 25; Sp. p. 5749; Gaz. vol. 150; p. 955.
Rocking-chair, Reclining. E. L. Swindler. No. 971,704; Oct. 4; Sp. p. 403; Gaz. vol. 159; p. 70.
Rod: *See* Beer-rod; Curtain-rod; Fishing-rod; Gun-rod; Leveling-rod; Lightning-rod; Radius-rod; Railway-tie rod; Stuffing-rod; Switch-rod; Ullage-rod; Valve-actuating rod.
Rod-clamp, Self-locking. J. Schramm. No. 975,292; Nov. 8; Sp. p. 2733; Gaz. vol. 160; p. 443.
Rod-coupling. S. F. Williams. No. 964,596; July 19; Sp. p. 3430; Gaz. vol. 156; p. 586.
Rod coupling, Connecting-. J. W. Bready. No. 947,567; Jan. 25; Sp. p. 5725; Gaz. vol. 150; p. 951.
Rod-elevator. G. B. Rogers. No. 953,976; Apr. 5; Sp. p. 575;; Gaz. vol. 153; p. 104.
Rod-leading machine, Automatic. J. W. Sommer. No. 951,996; Mar. 15; Sp. p. 3125; Gaz. vol. 152; p. 563.
Rod-supporting device. C. C. Blake. No. 958,219; May 17; Sp. p. 3846; Gaz. vol. 154; p. 650.
Rodent-trap. J. R. Scott. No. 958,016; May 17; Sp. p. 3321; Gaz. vol. 154; p. 578.
Roentgen rays, Preparation impermeable for. O. Gros. No. 970,215; Sept. 13; Sp. p. 2317; Gaz. vol. 158; p. 389.
Roll and core therefor, Oval. S. Wheeler. No. 972,668; Oct. 11; Sp. p. 2523; Gaz. vol. 159; p. 430.
Roll-brake. R. Moon. No. 946,252; Jan. 11; Sp. p. 2734; Gaz. vol. 150; p. 455.
Roll-carrier and haversack, Combined. F. C. Harriman. No. 946,856; Jan. 18; Sp. p. 4137; Gaz. vol. 150; p. 685.
Roll-making machine. H. F. W. Hueg. No. 956,099; Apr. 26; Sp. p. 5224; Gaz. vol. 153; p. 919.
Roll-pinning machine. F. P. Hoffman. No. 954,186; Apr. 5; Sp. p. 1039; Gaz. vol. 153; p. 176.
Roll winder, Helical-. C. S. Lockwood. No. 964,288; July 12; Sp. p. 2740; Gaz. vol. 156; p. 452.
Rolls, Dipping device for coating-. P. Kuznor. No. 949,281; Feb. 15; Sp. p. 3141; Gaz. vol. 151; p. 554.
Rolls, Feeding plates or sheets to cold. C. W. Bray. No. 947,728; Jan. 25; Sp. p. 6031; Gaz. vol. 150; p. 1005.
Rolls, Strip for making antifriction bearing-. C. S. Lockwood. No. 966,844; Aug. 9; Sp. p. 2199; Gaz. vol. 157; p. 362.
Rolls, Wearing-piece for ends of spirally-wound. C. S. Lockwood. No. 964,287; July 12; Sp. p. 2738; Gaz. vol. 156; p. 452.
Roller: *See* Abrading-roller; Cable-roller; Can-roller; Composite roller; Conveyer-roller; Curtain-roller; Electrically-heated roller; Expansible roller; Farm-roller; Feed-roller; Gin-roller; Inking-roller; Land-roller; Matting-roller; Metal roller; Paper-feed roller; Road-roller; Screen-roller; Shade-roller; Stropping-roller.
Roller and scraper, Combination. W. H. McConnell. No. 946,978; Jan. 18; Sp. p. 4412; Gaz. vol. 150; p. 726.
Roller and the like handle, Lawn-. W. J. Dunham. No. 967,349; Aug. 16; Sp. p. 3241; Gaz. vol. 157; p. 561.
Roller-bearing wheel. W. J. Brewer. No. 956,279; Apr. 26; Sp. p. 5622; Gaz. vol. 153; p. 981.
Roller, bumper, &c. H. F. Pendleton. No. 956,503; Apr. 26; Sp. p. 6113; Gaz. vol. 153; p. 1058.
Roller crushing-mill. P. E. Van Saun. No. 964,070; July 12; Sp. p. 2296; Gaz. vol. 156; p. 378.
Roller-drill. H. R. Hughes. No. 959,539; May 31; Sp. p. 6741; Gaz. vol. 154; p. 1148.
Roller-drill. H. R. Hughes. No. 959,540; May 31; Sp. p. 6746; Gaz. vol. 154; p. 1148.
Roller-holddown and feed-roll, Power-driven. C. W. H. Blood. No. 952,094; Mar. 15; Sp. p. 3300; Gaz. vol. 152; p. 595.
Roller-mill feed device. J. M. McAfee. No. 949,400; Feb. 15; Sp. p. 3418; Gaz. vol. 151; p. 597.
Roller-mills, Pressure-regulating device for. D. R. Bowen. No. 974,349; Nov. 1; Sp. p. 616; Gaz. vol. 160; p. 93.
Roller-support. J. Knape. No. 946,056; Jan. 11; Sp. p. 2319; Gaz. vol. 150; p. 385.
Rollers or wheels, Making. E. Klahn. No. 978,036; Dec. 6; Sp. p. 1326; Gaz. vol. 161; p. 212.
Rollers, Socket for retaining the spindles or pins at the ends of. W. S. Aldhouse. No. 953,657; Mar. 29; Sp. p. 6621; Gaz. vol. 152; p. 1181.
Rolling and seaming machine. P. E. Deaton. No. 969,249; Sept. 6; Sp. p. 217; Gaz. vol. 158; p. 35.
Rolling apparatus, Plate-. M. W. Hogle and W. W. Slick. No. 947,428; Jan. 25; Sp. p. 5396; Gaz. vol. 150; p. 904.
Rolling, Art of. C. M. Grey. No. 968,464; Aug. 23; Sp. p. 5578; Gaz. vol. 157; p 962.
Rolling, Art of. C. M. Grey. No. 968,465; Aug. 23; Sp. p. 5581; Gaz. vol. 157; p. 963.
Rolling black plates or sheets. W. H. Donner. (Reissue.) No. 13,173; Nov. 22; Sp. p. 6045; Gaz. vol. 160; p. 1023.
Rolling disks, Machine for cold-. A. L. Dow. No. 950,900; Mar. 1; Sp. p. 923; Gaz. vol. 152; p. 147.
Rolling hollow metal bodies, Method of and apparatus for. E. E. Slick. No. 965,038; July 19; Sp. p. 4425; Gaz. vol. 156; p. 737.
Rolling in recesses in blanks. J. Heller. No. 967,768; Aug. 16; Sp. p. 4097; Gaz. vol. 157; p. 702.
Rolling ingots. J. O. E. Trotz. No. 965,050; July 19; Sp. p. 4451; Gaz. vol. 156; p. 741.
Rolling-machine. L. Hirschfeld. No. 966,206; Aug. 2; Sp. p. 785; Gaz. vol. 157; p. 124.
Rolling mechanism. F. H. Richards. No. 958,010; May 17; Sp. p. 3307; Gaz. vol. 154; p. 576.
Rolling metal. W. D. Eynon. No. 960,297; June 7; Sp. p. 112; Gaz. vol. 155; p. 22.
Rolling metal bars. I. L. Hughes. No. 947,554; Jan. 25; Sp. p. 5695; Gaz. vol. 150; p. 946.
Rolling metal bars, Apparatus for. I. L. Hughes. No. 947,305; Jan. 25; Sp. p. 5109; Gaz. vol. 150; p. 862.
Rolling metal sheets and plates. M. W. Hogle and W. W. Slick. No. 947,429; Jan. 25; Sp. p. 5399; Gaz. vol 150; p. 904.
Rolling metal sheets, Apparatus for. C. W. Bray. No. 978,551; Dec. 13; Sp. p. 2446; Gaz. vol. 161; p. 421.
Rolling-mill. J. Fawell. No. 946,793; Jan. 18; Sp. p. 3983; Gaz. vol. 150; p. 662.
Rolling-mill. J. Fawell. No. 946,794; Jan. 18; Sp. p. 3986; Gaz. vol. 150; p. 662.
Rolling-mill. J. Fawell. No. 946,795; Jan. 18; Sp. p. 3988; Gaz. vol. 150; p. 663.
Rolling-mill. R. M. Snyder. No. 946,828; Jan. 18; Sp. p. 4078; Gaz. vol. 150; p. 675.
Rolling-mill. L. D. Davis and E. A. Bedient. No. 951,179; Mar. 8; Sp. p. 1447; Gaz. vol. 152; p. 262.
Rolling-mill. F. H. Daniels. No. 956,301; Apr. 26; Sp. p. 5681; Gaz. vol. 153; p. 989.
Rolling-mill. J. R. George. No. 966,089; Aug. 2; Sp. p. 522; Gaz. vol. 157; p. 85.

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Rolling-mill. J. Fawell. No. 974,559; Nov. 1; Sp. p. 1119; Gaz. vol. 160; p. 169.
Rolling-mill. L. Kunda. No. 977,637; Dec. 6; Sp. p. 495; Gaz. vol. 161; p. 75.
Rolling-mill. A. Gautschi. No. 977,725; Dec. 6; Sp. p. 679; Gaz. vol. 161; p. 105.
Rolling-mill adjusting device. S. Dean. No. 949,464; Feb. 15; Sp. p. 3535; Gaz. vol. 151; p. 617.
Rolling-mill cutting mechanism. T. M. Jewell. No. 966,557; Aug. 9; Sp. p. 1568; Gaz. vol. 157; p. 267.
Rolling-mill for producing tubes. M. Peters. No. 954,880; Apr. 12; Sp. p. 2607; Gaz. vol. 153; p. 443.
Rolling-mill for producing tubes. M. Peters. No. 970,263; Sept. 13; Sp. p. 2411; Gaz. vol. 158; p. 406.
Rolling-mill for rolling car-wheels. C. von Philp. No. 956,780; May 3; Sp. p. 597; Gaz. vol. 154; p. 95.
Rolling-mill for tubes. A. J. McGinness. No. 954,201; Apr. 5; Sp. p. 1074; Gaz. vol. 153; p. 182.
Rolling-mill guide. T. H. Nye. No. 972,219; Oct. 11; Sp. p. 1565; Gaz. vol. 159; p. 274.
Rolling-mill guide-box. T. M. Jewell. No. 966,556; Aug. 9; Sp. p. 1566; Gaz. vol. 157; p. 266.
Rolling-mill manipulator. J. Fawell. No. 971,740; Oct. 4; Sp. p. 487; Gaz. vol. 159; p. 84.
Rolling-mill-operating means. B. Wiley. No. 967,284; Aug. 16; Sp. p. 3103; Gaz. vol. 157; p. 537.
Rolling-mill plant. H. Sack. No. 970,559; Sept. 20; Sp. p. 3022; Gaz. vol. 158; p. 526.
Rolling mill, Tire-. J. Kennedy. No. 949,279; Feb. 15; Sp. p. 3138; Gaz. vol. 151; p. 553.
Rolling mill, Tube-. H. Stüting. No. 961,818; June 21; Sp. p. 3275; Gaz. vol. 155; p. 584.
Rolling out hollow billets to form seamless tubes. O. Briede. No. 969,333; Sept. 6; Sp. p. 381; Gaz. vol. 158; p. 62.
Rolling-pin. R. M. Vick. No. 950,775; Mar. 1; Sp. p. 682; Gaz. vol. 152; p. 109.
Rolling plastic material, Apparatus for. N. Franzen. No. 945,319; Jan. 4; Sp. p. 685; Gaz. vol. 150; p. 106.
Rolling rails. E. E. Slick. No. 947,164; Jan. 18; Sp. p. 4756; Gaz. vol. 150; p. 784.
Rolling-stock fender. R. C. Quin. No. 966,596; Aug. 9; Sp. p. 1640; Gaz. vol. 157; p. 280.
Rolling tubes, solid round bars, and similar bodies, Process of and apparatus for. R. C. Stiefel. No. 950,708; Mar. 1; Sp. p. 538; Gaz. vol. 152; p. 84.
Rolling wheels, Means for. A. K. Andrews. No. 954,245; Apr. 5; Sp. p. 1171; Gaz. vol. 153; p. 195.
Roof. W. E. Polhemus. No. 954,995; Apr. 12; Sp. p. 2832; Gaz. vol. 153; p. 481.
Roof. M. A. Jackson. No. 955,165; Apr. 19; Sp. p. 3164; Gaz. vol. 153; p. 569.
Roof. A. Oesterheld. No. 957,623; May 10; Sp. p. 2386; Gaz. vol. 154; p. 413.
Roof-bracket. S. P. Phoenix. No. 961,642; June 14; Sp. p. 2896; Gaz. vol. 155; p. 501.
Roof-bracket. G. P. Wolf. No. 964,829; July 19; Sp. p. 3999; Gaz. vol. 156; p. 665.
Roof-climber. T. A. Wilkerson. No. 974,941; Nov. 8; Sp. p. 1961; Gaz. vol. 160; p. 323.
Roof construction for buildings, Metallic-frame. A. F. Davis. No. 952,001; Mar. 15; Sp. p. 3135; Gaz. vol. 152; p. 565.
Roof-covering, Metallic. J. W. Reynolds. No. 946,686; Jan. 18; Sp. p. 3745; Gaz. vol. 150; p. 626.
Roof-joint. H. B. Mikesell. No. 957,980; May 17; Sp. p. 3214; Gaz. vol. 154; p. 566.
Roof ornament. A. E. Bowers. No. 946,102; Jan. 11; Sp. p. 2409; Gaz. vol. 150; p. 401.
Roof-shoe. C. W. Phinny. No. 958,277; May 17; Sp. p. 3969; Gaz. vol. 154; p. 669.
Roof structure, Glazed. H. T. Thomas. No. 979,600; Dec. 27; Sp. p. 4721; Gaz. vol. 161; p. 828.
Roofs and the like, Covering for. J. H. Munro. No. 967,542; Aug. 16; Sp. p. 3645; Gaz. vol. 157; p. 626.
Roofs, &c., Protective covering for. F. C. Overbury. No. 978,333; Dec. 13; Sp. p. 1991; Gaz. vol. 161; p. 347.
Roofing. F. Moffett. No. 953,217; Mar. 29; Sp. p. 5674; Gaz. vol. 152; p. 1031.
Roofing. F. D. Cook. No. 957,937; May 17; Sp. p. 3067; Gaz. vol. 154; p. 550.
Roofing. J. L. Du Four. No. 966,178; Aug. 2; Sp. p. 725; Gaz. vol. 157; p. 114.
Roofing. G. Fischer and C. E. Stanton. No. 966,187; Aug. 2; Sp. p. 743; Gaz. vol. 157; p. 117.
Roofing-bracket. T. B. Hillmon. No. 955,159; Apr. 19; Sp. p. 3155; Gaz. vol. 153; p. 567.
Roofing, Cleat for securing prepared. W. H. Woerheide. No. 973,902; Oct. 25; Sp. p. 5228; Gaz. vol. 159; p. 906.
Roofing construction. H. E. West. No. 950,085; Feb. 22; Sp. p. 4910; Gaz. vol. 151; p. 863.
Roofing-fastener. F. C. Overbury. No. 978,334; Dec. 13; Sp. p. 1992; Gaz. vol. 161; p. 347.
Roofing, Lock-seam for sheet-metal. K. Roth. No. 968,887; Aug. 30; Sp. p. 6508; Gaz. vol. 157; p. 1133.
Roofing, Machine for making. H. R. Wardell. No. 972,957; Oct. 18; Sp. p. 3200; Gaz. vol. 159; p. 556.
Roofing-material fastener. R. S. Ford. No. 980,089; Dec. 27; Sp. p. 5782; Gaz. vol. 161; p. 991.
Roofing, Metallic. F. B. Hale. No. 946,998; Jan. 18; Sp. p. 4449; Gaz. vol. 150; p. 733.
Roofing-plate. E. K. Day and H. S. Riddle. No. 955,855; Apr. 26; Sp. p. 4689; Gaz. vol. 153; p. 833.
Roofing, Ready-made. W. H. Pendery. No. 948,116; Feb. 1; Sp. p. 697; Gaz. vol. 151; p. 114.
Roost, Bat-. C. A. R. Campbell. No. 950,508; Mar. 1; Sp. p. 101; Gaz. vol. 152; p. 17.
Roost, Medicated poultry-. G. F. West. No. 978,526; Dec. 13; Sp. p. 2395; Gaz. vol. 161; p. 412.
Roost, Poultry-. I. T. Merchant. No. 961,874; June 21; Sp. p. 3407; Gaz. vol. 155; p. 602.
Root-puller. G. T. McGehee. No. 971,459; Sept. 27; Sp. p. 4877; Gaz. vol. 158; p. 854.
Rope and chain clamp. J. S. Sourek. No. 976,940; Nov. 29; Sp. p. 6317; Gaz. vol. 160; p. 1082.
Rope, chain, or wire stretcher. J. S. Sourek. No. 976,941; Nov. 29; Sp. p. 6319; Gaz. vol. 160; p. 1083.
Rope-clamp. C. W. Russell. No. 966,604; Aug. 9; Sp. p. 1656; Gaz. vol. 157; p. 282.
Rope-clamp. A. C. Belling. No. 968,638; Aug. 30; Sp. p. 5962; Gaz. vol. 157; p. 1050.
Rope-drive elevator. E. Boening. No. 964,842; July 19; Sp. p. 4031; Gaz. vol. 156; p. 671.
Rope-drive elevator. I. H. Venn. No. 964,889; July 19; Sp. p. 4127; Gaz. vol. 156; p. 687.
Rope-fastener. M. C. Jennings. No. 960,333; June 7; Sp. p. 196; Gaz. vol. 155; p. 34.
Rope-fastener. L. C. Sims. No. 962,675; June 28; Sp. p. 5145; Gaz. vol. 155; p. 900.
Rope-fastener. E. E. Colson. No. 965,369; July 26; Sp. p. 5118; Gaz. vol. 156; p. 878.
Rope for power-transmission purposes. H. K. Holsman and C. H. Bryan. No. 956,578; May 3; Sp. p. 155; Gaz. vol. 154; p. 27.
Rope-jockey. F. Simon. No. 962,475; June 28; Sp. p. 4722; Gaz. vol. 155; p. 832.
Rope-joint. A. Rosenthal. No. 979,567; Dec. 27; Sp. p. 4647; Gaz. vol. 161; p. 816.
Rope, Jumping-. E. M. Deckman. No. 964,623; July 19; Sp. p. 3481; Gaz. vol. 156; p. 595.
Rope-knife. G. A. Spang. No. 969,571; Sept. 6; Sp. p. 901; Gaz. vol. 158; p. 143.
Rope-knife. A. C. Graham. No. 978,577; Dec. 13; Sp. p. 2528; Gaz. vol. 161; p. 431.
Rope-machine. R. A. Davis. No. 967,174; Aug. 16; Sp. p. 2895; Gaz. vol. 157; p. 501.
Rope-making machine. M. and S. Kjelstad. No. 947,410; Jan. 25; Sp. p. 5360; Gaz. vol. 150; p. 898.
Rope-making machine. T. M. McIntosh. No. 954,686; Apr. 12; Sp. p. 2125; Gaz. vol. 153; p. 373.
Rope net. S. Sado. No. 958,773; May 24; Sp. p. 5118; Gaz. vol. 154; p. 864.
Rope or belt, Flat. R. A. Hammond. No. 966,830; Aug. 9; Sp. p. 2171; Gaz. vol. 157; p. 357.
Rope-socket. W. B. Greeves and L. J. Black. No. 966,011; Aug. 2; Sp. p. 355; Gaz. vol. 157; p. 57.
Ropes, Means for joining driving and other. W. Shuffle-bottom and T. Kenworthy. No. 979,214; Dec. 20; Sp. p. 3907; Gaz. vol. 161; p. 676.
Rosette, Fuseless. H. C. Wirt. No. 947,878; Feb. 1; Sp. p. 221; Gaz. vol. 151; p. 35.
Rosin-applicator. C. G. Sweet. No. 978,410; Dec. 13; Sp. p. 2148; Gaz. vol. 161; p. 374.
Rosin-purifying apparatus. R. N. Perlee. No. 961,254; June 14; Sp. p. 2054; Gaz. vol. 155; p. 370.
Rotary compound steam-engine. C. R. Hilty. No. 957,508; May 10; Sp. p. 2161; Gaz. vol. 154; p. 374.
Rotary cutter. A. E. Ayer. No. 949,051; Feb. 15; Sp. p. 2687; Gaz. vol. 151; p. 478.
Rotary cutter. J. Erlandsen. No. 960,526; June 7; Sp. p. 573; Gaz. vol. 155; p. 95.
Rotary cutter. J. C. Palmer. No. 966,701; Aug. 9; Sp. p. 1839; Gaz. vol. 157; p. 314.
Rotary drier. F. R. Willson, Jr. No. 951,977; Mar. 15; Sp. p. 3086; Gaz. vol. 152; p. 557.
Rotary engine. W. W. Wheeler. No. 945,067; Jan. 4; Sp. p. 128; Gaz. vol. 150; p. 22.
Rotary engine. J. H. Harrison. No. 945,525; Jan. 4; Sp. p. 1121; Gaz. vol. 150; p. 173.
Rotary engine. G. E. Ball. No. 946,492; Jan. 11; Sp. p. 3342; Gaz. vol. 150; p. 537.
Rotary engine. J. Jagersberger and A. Zemann. No. 947,430; Jan. 25; Sp. p. 5402; Gaz. vol. 150; p. 905.
Rotary engine. J. Nielsen. No. 947,670; Jan. 25; Sp. p. 5931; Gaz. vol. 150; p. 986.
Rotary engine. W. G. Sheppard. No. 948,256; Feb. 1; Sp. p. 972; Gaz. vol. 151; p. 159.
Rotary engine. W. G. Dodd. No. 948,692; Feb. 8; Sp. p. 1930; Gaz. vol. 151; p. 331.
Rotary engine. H. H. Benson. No. 949,410; Feb. 15; Sp. p. 3443; Gaz. vol. 151; p. 600.
Rotary engine. K. J. Hokanson. No. 949,431; Feb. 15; Sp. p. 3478; Gaz. vol. 151; p. 607.
Rotary engine. F. Tompkins. No. 949,510; Feb. 15; Sp. p. 3628; Gaz. vol. 151; p. 632.
Rotary engine. W. M. Spencer. No. 950,249; Feb. 22; Sp. p. 5248; Gaz. vol. 151; p. 920.
Rotary engine. T. Duysens, J. R. H. De Jong, and H. L. Kneppers. No. 950,478; Mar. 1; Sp. p. 32; Gaz. vol. 152; p. 7.
Rotary engine. E. and T. Erickson. No. 951,064; Mar. 1; Sp. p. 1215; Gaz. vol. 152; p. 200.

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Rotary engine. J. M. Lively. No. 951,479; Mar. 8; Sp. p. 2073; Gaz. vol. 152; p. 359.
Rotary engine. J. R. Kinney. No. 951,735; Mar. 8; Sp. p. 2567; Gaz. vol. 152; p. 445.
Rotary engine. D. Conekin. No. 951,776; Mar. 8; Sp. p. 2662; Gaz. vol. 152; p. 460.
Rotary engine. J. F. Milton. No. 951,960; Mar. 15; Sp. p. 3051; Gaz. vol. 152; p. 552.
Rotary engine. G. T. Geer. No. 953,328; Mar. 29; Sp. p. 5905; Gaz. vol. 152; p. 1066.
Rotary engine. S. A. Miles. No. 953,964; Apr. 5; Sp. p. 550; Gaz. vol. 153; p. 99.
Rotary engine. N. Bindrup. No. 954,162; Apr. 5; Sp. p. 990; Gaz. vol. 153; p. 167.
Rotary engine. E. A. Bohm. No. 954,609; Apr. 12; Sp. p. 1953; Gaz. vol. 153; p. 346.
Rotary engine. C. E. Waldron. No. 954,832; Apr. 12; Sp. p. 2490; Gaz. vol. 153; p. 424.
Rotary engine. H. M. Van Alstyne and W. Bell. No. 955,925; Apr. 26; Sp. p. 4845; Gaz. vol. 153; p. 857.
Rotary engine. A. E. Rasmussen. No. 957,799; May 10; Sp. p. 2758; Gaz. vol. 154; p. 472.
Rotary engine. G. W. Bartlett. No. 957,860; May 17; Sp. p. 2883; Gaz. vol. 154; p. 523.
Rotary engine. B. F. Wickersham. No. 958,571; May 17; Sp. p. 4695; Gaz. vol. 154; p. 771.
Rotary engine. G. F. Moors. No. 958,885; May 24; Sp. p. 5394; Gaz. vol. 154; p. 905.
Rotary engine. L. L. A. Seguin. No. 959,172; May 24; Sp. p. 5989; Gaz. vol. 154; p. 1001.
Rotary engine. F. J. Sproehnle. No. 959,812; May 31; Sp. p. 7316; Gaz. vol. 154; p. 1239.
Rotary engine. G. H. Hardy. No. 959,856; May 31; Sp. p. 7407; Gaz. vol. 154; p. 1255.
Rotary engine. B. Dorris. No. 960,516; June 7; Sp. p. 557; Gaz. vol. 155; p. 92.
Rotary engine. N. H. Motsinger. No. 960,990; June 7; Sp. p. 1503; Gaz. vol. 155; p. 252.
Rotary engine. N. H. Motsinger. No. 960,991; June 7; Sp. p. 1510; Gaz. vol. 155; p. 253.
Rotary engine. N. H. Motsinger. No. 960,992; June 7; Sp. p. 1514; Gaz. vol. 155; p. 253.
Rotary engine. N. H. Motsinger. No. 960,993; June 7; Sp. p. 1517; Gaz. vol. 155; p. 254.
Rotary engine. N. H. Motsinger. No. 960,994; June 7; Sp. p. 1521; Gaz. vol. 155; p. 254.
Rotary engine. A. J. Savoie. No. 961,026; June 7; Sp. p. 1583; Gaz. vol. 155; p. 265.
Rotary engine. A. A. Edwards and A. Olson. No. 961,849; June 21; Sp. p. 3341; Gaz. vol. 155; p. 594.
Rotary engine. G. E. Callaway. No. 962,310; June 21; Sp. p. 4347; Gaz. vol. 155; p. 750.
Rotary engine. R. C. Leedham. No. 962,850; June 28; Sp. p. 5500; Gaz. vol. 155; p. 962.
Rotary engine. J. Burleigh. No. 963,207; July 5; Sp. p. 470; Gaz. vol. 156; p. 64.
Rotary engine. J. W. Keating and A. McDonald. No. 964,431; July 12; Sp. p. 3016; Gaz. vol. 156; p. 497.
Rotary engine. E. F. Chader and V. Anderson. No. 964,754; July 19; Sp. p. 3846; Gaz. vol. 156; p. 641.
Rotary engine. S. R. Nichols. No. 964,933; July 19; Sp. p. 4209; Gaz. vol. 156; p. 702.
Rotary engine. R. Lundquist. No. 965,640; July 26; Sp. p. 5726; Gaz. vol. 156; p. 974.
Rotary engine. W. H. Thompson, Jr. No. 966,622; Aug. 9; Sp. p. 1690; Gaz. vol. 157; p. 288.
Rotary engine. G. W. Brown. No. 966,648; Aug. 9; Sp. p. 1735; Gaz. vol. 157; p. 296.
Rotary engine. E. P. Dargin. No. 967,108; Aug. 9; Sp. p. 2751; Gaz. vol. 157; p. 451.
Rotary engine. A. C. Savidge. No. 968,268; Aug. 23; Sp. p. 5199; Gaz. vol. 157; p. 895.
Rotary engine. J. H. Zimmer. No. 968,630; Aug. 30; Sp. p. 5945; Gaz. vol. 157; p. 1047.
Rotary engine. G. H. Gross. No. 968,653; Aug. 30; Sp. p. 6007; Gaz. vol. 157; p. 1055.
Rotary engine. F. Nearing. No. 968,786; Aug. 30; Sp. p. 6308; Gaz. vol. 157; p. 1100.
Rotary engine. C. R. Ord. No. 968,969; Aug. 30; Sp. p. 6664; Gaz. vol. 157; p. 1161.
Rotary engine. W. Ball. No. 969,026; Aug. 30; Sp. p. 6778; Gaz. vol. 157; p. 1181.
Rotary engine. R. E. List. No. 969,070; Aug. 30; Sp. p. 6873; Gaz. vol. 157; p. 1196.
Rotary engine. G. R. Evans. No. 969,353; Sept. 6; Sp. p. 428; Gaz. vol. 158; p. 69.
Rotary engine. O. B. Jacobs. No. 969,957; Sept. 13; Sp. p. 1750; Gaz. vol. 158; p. 300.
Rotary engine. T. H. Frazer and W. W. Vanlandingham. No. 970,035; Sept. 13; Sp. p. 1934; Gaz. vol. 158; p. 328.
Rotary engine. W. S. Moses. No. 970,942; Sept. 20; Sp. p. 3844; Gaz. vol. 158; p. 656.
Rotary engine. W. M. Hoffman. No. 971,043; Sept. 27; Sp. p. 4062; Gaz. vol. 158; p. 719.
Rotary engine. G. T. Geer. No. 971,671; Oct. 4; Sp. p. 339; Gaz. vol. 159; p. 59.
Rotary engine. V. L. Capwell. No. 972,598; Oct. 11; Sp. p. 2378; Gaz. vol. 159; p. 406.
Rotary engine. C. F. Paul, Jr. No. 973,064; Oct. 18; Sp. p. 3429; Gaz. vol. 159; p. 594.
Rotary engine. R. Wall. No. 973,897; Oct. 25; Sp. p. 5220; Gaz. vol. 159; p. 905.
Rotary engine. M. L. Harris. No. 974,485; Nov. 1; Sp. p. 948; Gaz. vol. 160; p. 140.
Rotary engine. A. Renik. No. 975,637; Nov. 15; Sp. p. 3469; Gaz. vol. 160; p. 588.
Rotary engine. G. B. Seitz. No. 975,643; Nov. 15; Sp. p. 3481; Gaz. vol. 160; p. 590.
Rotary engine. L. O. Gilliland. No. 976,355; Nov. 22; Sp. p. 5037; Gaz. vol. 160; p. 855.
Rotary engine. C. A. Bender. No. 976,539; Nov. 22; Sp. p. 5442; Gaz. vol. 160; p. 919.
Rotary engine. J. Putman. No. 976,913; Nov. 29; Sp. p. 6233; Gaz. vol. 160; p. 1072.
Rotary engine. H. A. Massey. No. 977,027; Nov. 29; Sp. p. 6523; Gaz. vol. 160; p. 1113.
Rotary engine. G. F. Leiger. No. 977,888; Dec. 6; Sp. p. 1018; Gaz. vol. 161; p. 161.
Rotary engine. J. W. Larimore. No. 978,602; Dec. 13; Sp. p. 2577; Gaz. vol. 161; p. 440.
Rotary engine. S. Haudenshield. No. 978,743; Dec. 13; Sp. p. 2874; Gaz. vol. 161; p. 487.
Rotary engine. D. E. Cota. No. 979,262; Dec. 20; Sp. p. 4022; Gaz. vol. 161; p. 692.
Rotary engine. G. E. Ball. No. 979,638; Dec. 27; Sp. p. 4800; Gaz. vol. 161; p. 842.
Rotary engine. H. Doke. No. 980,075; Dec. 27; Sp. p. 5742; Gaz. vol. 161; p. 987.
Rotary engine, Automatic. H. A. King. No. 953,206; Mar. 29; Sp. p. 5652; Gaz. vol. 152; p. 1027.
Rotary engine, Compound reversible. H. Eriksen. No. 962,204; June 21; Sp. p. 4123; Gaz. vol. 155; p. 715.
Rotary engine, Reversible. C. Lecaime. No. 967,396; Aug. 16; Sp. p. 3352; Gaz. vol. 157; p. 578.
Rotary explosion-engine. E. J. Conill. No. 947,480; Jan. 25; Sp. p. 5541; Gaz. vol. 150; p. 921.
Rotary explosion-engine. E. J. Conill. No. 951,388; Mar. 8; Sp. p. 1886; Gaz. vol. 152; p. 329.
Rotary explosive-engine. O. W. Williams and W. H. Gardner. No. 947,008; Jan. 18; Sp. p. 4478; Gaz. vol. 150; p. 736.
Rotary explosive-engine. C. M. Green. No. 955,155; Apr. 19; Sp. p. 3145; Gaz. vol. 153; p. 565.
Rotary explosive-engine. G. G. Schroeder. No. 955,288; Apr. 19; Sp. p. 3431; Gaz. vol. 153; p. 610.
Rotary explosive-engine. E. A. Thomas and W. V. Ritter. No. 962,064; June 21; Sp. p. 3807; Gaz. vol. 155; p. 667.
Rotary explosive-engine. E. P. Titus. No. 969,675; Sept. 6; Sp. p. 1108; Gaz. vol. 158; p. 178.
Rotary furnace. D. Baker. No. 968,313; Aug. 23; Sp. p. 5286; Gaz. vol. 157; p. 911.
Rotary gas-engine. L. A. Lang. No. 953,788; Apr. 5; Sp. p. 207; Gaz. vol. 153; p. 38.
Rotary gas-engine. M. L. Harris. No. 963,436; July 5; Sp. p. 955; Gaz. vol. 156; p. 142.
Rotary gas-engine. H. I. Wilber. No. 973,833; Oct. 25; Sp. p. 5071; Gaz. vol. 159; p. 882.
Rotary hand device. O. E. Miller. No. 949,436; Feb. 15; Sp. p. 3488; Gaz. vol. 151; p. 609.
Rotary internal-combustion engine. J. S. Stewart. No. 957,631; May 10; Sp. p. 2402; Gaz. vol. 154; p. 416.
Rotary jack. W. C. Stewart. No. 958,034; May 17; Sp. p. 3398; Gaz. vol. 154; p. 586.
Rotary motor. W. Taylor. No. 949,605; Feb. 15; Sp. p. 3812; Gaz. vol. 151; p. 664.
Rotary motor. G. R. Riggs. No. 961,017; June 7; Sp. p. 1562; Gaz. vol. 155; p. 262.
Rotary motor. H. Van Ormer. No. 969,010; Aug. 30; Sp. p. 6748; Gaz. vol. 157; p. 1176.
Rotary motor. C. De Lukacsevics. No. 974,803; Nov. 8; Sp. p. 1639; Gaz. vol. 160; p. 275.
Rotary motor. L. Stempfer. No. 976,006; Nov. 15; Sp. p. 4209; Gaz. vol. 160; p. 713.
Rotary motor. H. F. Weinland. No. 978,085; Dec. 6; Sp. p. 1427; Gaz. vol. 161; p. 230.
Rotary motor. H. F. Weinland. No. 978,086; Dec. 6; Sp. p. 1430; Gaz. vol. 161; p. 231.
Rotary motor for driving boiler-tube cleaners. H. F. and H. G. Weinland. No. 978,088; Dec. 6; Sp. p. 1433; Gaz. vol. 161; p. 231.
Rotary motor, pump, and the like. F. Lamplough. No. 953,474; Mar. 29; Sp. p. 6235; Gaz. vol. 152; p. 1118.
Rotary power-washer. T. F. Linegar and H. M. Storms. No. 978,461; Dec. 13; Sp. p. 2251; Gaz. vol. 161; p. 390.
Rotary press. J. A. Dowd. No. 947,013; Jan. 18; Sp. p. 4486; Gaz. vol. 150; p. 738.
Rotary press. J. W. R. von Traubenberg. No. 970,575; Sept. 20; Sp. p. 3053; Gaz. vol. 158; p. 531.
Rotary press, (double line.) H. F. Bechman. (Reissue.) No. 13,129; July 12; Sp. p. 3112; Gaz. vol. 156; p. 511.
Rotary press, Double-line. L. A. Wheat. No. 973,599; Oct. 25; Sp. p. 4578; Gaz. vol. 159; p. 799.
Rotary rake. E. M. Warrenfeltz. No. 949,104; Feb. 15; Sp. p. 2785; Gaz. vol. 151; p. 494.
Rotary screen. S. W. Traylor. No. 957,818; May 10; Sp. p. 2787; Gaz. vol. 154; p. 478.
Rotary shears. E. E. Slick. No. 965,034; July 19; Sp. p. 4409; Gaz. vol. 156; p. 736.
Rotary shears. E. E. Slick. No. 965,037; July 19; Sp. p. 4422; Gaz. vol. 156; p. 737.

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Rotary steam-engine. W. R. Harper. No. 951,607; Mar. 8; Sp. p. 2314; Gaz. vol. 152; p. 402.
Rotary steam-engine. G. A. Metcalf, W. C. and L. T. Rocheleau. No. 958,416; May 17; Sp. p. 4396; Gaz. vol. 154; p. 718.
Rotary steam-engine. J. Schuller and A. Niland. No. 962,984; June 28; Sp. p. 5752; Gaz. vol. 155; p. 1007.
Rotary steam-engine, Compound. O. O. Nygaard. No. 952,465; Mar. 22; Sp. p. 4045; Gaz. vol. 152; p. 748.
Rotary steam-joint. J. Nuttall. No. 955,097; Apr. 12; Sp. p. 3022; Gaz. vol. 153; p. 513.
Rotary turbine-engine. J. Blaeker. No. 974,634; Nov. 1; Sp. p. 1271; Gaz. vol. 160; p. 195.
Rotatable gate or door. F. O. Kullander. No. 952,912; Mar. 22; Sp. p. 5012; Gaz. vol. 152; p. 901.
Rotating furnace, Annular. W. B. Bary. No. 970,293; Sept. 13; Sp. p. 2462; Gaz. vol. 158; p. 415.
Roughing-machine. E. C. Williams. No. 945,833; Jan. 4; Sp. p. 1850; Gaz. vol. 150; p. 309.
Roundabout. J. H. Bramkamp. No. 953,119; Mar. 29; Sp. p. 5469; Gaz. vol. 152; p. 999.
Roundabout. A. C. Tulene. No. 954,482; Apr. 12; Sp. p. 1675; Gaz. vol. 153; p. 303.
Roundabout. R. R. Stein. No. 966,134; Aug. 2; Sp. p. 602; Gaz. vol. 157; p. 99.
Roundabout. R. R. Stein. No. 966,135; Aug. 2; Sp. p. 604; Gaz. vol. 157; p. 100.
Roundabout-operating mechanism. J. R. Simmons and P. J. Ford. No. 960,448; June 7; Sp. p. 415; Gaz. vol. 155; p. 70.
Route-guide. O. Cullman. No. 965,159; July 26; Sp. p. 4667; Gaz. vol. 156; p. 808.
Route-guides, ribbon-maps, and the like, Machine for operating. O. Cullman. No. 961,288; June 14; Sp. p. 2137; Gaz. vol. 155; p. 383.
Route-indicator. J. B. Rhodes. No. 951,966; Mar. 15; Sp. p. 3064; Gaz. vol. 152; p. 553.
Router-bit. C. Schroepfer. No. 948,904; Feb. 8; Sp. p. 2368; Gaz. vol. 151; p. 403.
Roving and similar frames, Device for preventing singles in. T. Bentley. No. 971,963; Oct. 4; Sp. p. 1015; Gaz. vol. 159; p. 168.
Roving and similar frames, Device for preventing singles in. V. R. Paige. No. 973,694; Oct. 25; Sp. p. 4797; Gaz. vol. 159; p. 834.
Rowlock. E. T. Lindsey and W. M. Tilley. No. 967,648; Aug. 16; Sp. p. 3855; Gaz. vol. 157; p. 661.
Rubber. J. S. Capen. No. 960,814; June 7; Sp. p. 1166; Gaz. vol. 155; p. 194.
Rubber and apparatus therefor, Manufacture of india-. H. S. Smith. No. 972,030; Oct. 4; Sp. p. 1143; Gaz. vol. 159; p. 191.
Rubber articles, Making hollow. F. J. Gleason. No. 964,510; July 19; Sp. p. 3209; Gaz. vol. 156; p. 556.
Rubber attachment. H. Karnatz. No. 978,304; Dec. 13; Sp. p. 1927; Gaz. vol. 161; p. 336.
Rubber boot and shoe vulcanizing apparatus. P. J. Wren and F. T. Comee. No. 975,309; Nov. 8; Sp. p. 2782; Gaz. vol. 160; p. 450.
Rubber cloth and making same, Enameled. F. R. Maddock. No. 972,553; Oct. 11; Sp. p. 2260; Gaz. vol. 159; p. 390.
Rubber compound. J. Smith. No. 952,150; Mar. 15; Sp. p. 3411; Gaz. vol. 152; p. 614.
Rubber-devulcanizing apparatus. E. W. Snyder. No. 951,974; Mar. 15; Sp. p. 3079; Gaz. vol. 152; p. 556.
Rubber, Devulcanizing india-. M. Körner. No. 953,094; Mar. 29; Sp. p. 5410; Gaz. vol. 152; p. 991.
Rubber-extracting apparatus. L. Guiguet. No. 958,918; May 24; Sp. p. 5468; Gaz. vol. 154; p. 916.
Rubber fabric, Making. A. D. Warner. No. 945,352; Jan. 4; Sp. p. 757; Gaz. vol. 150; p. 116.
Rubber footwear. M. C. Clark. No. 980,173; Dec. 27; Sp. p. 5993; Gaz. vol. 161; p. 1020.
Rubber goods, Manufacture and repair of india-. T. Gare. No. 967,751; Aug. 16; Sp. p. 4071; Gaz. vol. 157; p. 697.
Rubber goods, Vulcanizing. W. W. Duncan and N. E. Tousley. No. 952,984; Mar. 22; Sp. p. 5151; Gaz. vol. 152; p. 925.
Rubber, gutta-percha, balata, &c., Apparatus for removing foreign matter from india-. M. M. Dessau. No. 960,846; June 7; Sp. p. 1225; Gaz. vol. 155; p. 204.
Rubber, Hand-. M. Angert. No. 978,534; Dec. 13; Sp. p. 2407; Gaz. vol. 161; p. 415.
Rubber heel. S. Havens. No. 957,556; May 10; Sp. p. 2262; Gaz. vol. 154; p. 391.
Rubber heel. A. B. Heimbach. No. 961,126; June 14; Sp. p. 1790; Gaz. vol. 155; p. 324.
Rubber heel. G. Hadjich. No. 961,346; June 14; Sp. p. 2285; Gaz. vol. 155; p. 403.
Rubber-heel protector. G. G. Mirlach. No. 963,308; July 5; Sp. p. 694; Gaz. vol. 156; p. 99.
Rubber heels, Means for fastening. I. Vulpescu. No. 979,361; Dec. 20; Sp. p. 4200; Gaz. vol. 161; p. 724.
Rubber, Machine for working crude. M. C. Clark. No. 960,274; June 7; Sp. p. 68; Gaz. vol. 155; p. 15.
Rubber, Manufacture of artificial. A. Nilson. No. 964,304; July 12; Sp. p. 2776; Gaz. vol. 156; p. 458.
Rubber or rubber-like substances and resin from materials containing the same, Separating. L. H. Chanut. No. 978,696; Dec. 13; Sp. p. 2761; Gaz. vol. 161; p. 471.
Rubber pads for boots and shoes, Means for molding. J. O'Brien. No. 945,340; Jan. 4; Sp. p. 733; Gaz. vol. 150; p. 113.
Rubber, Producing. H. O. Chute and F. L. Randel. No. 957,495; May 10; Sp. p. 2137; Gaz. vol. 154; p. 370.
Rubber, Recovery of. M. Delafond. No. 966,385; Aug. 2; Sp. p. 1120; Gaz. vol. 157; p. 180.
Rubber, Recovery of. H. T. G. Van der Linde. No. 979,902; Dec. 27; Sp. p. 5382; Gaz. vol. 161; p. 930.
Rubber rings, Machine for cutting. W. P. McGeouch. No. 948,401; Feb. 8; Sp. p. 1309; Gaz. vol. 151; p. 235.
Rubber shoe. J. S. Capen. No. 972,996; Oct. 18; Sp. p. 3278; Gaz. vol. 159; p. 571.
Rubber sole for boots and shoes. A. D. Warner. No. 953,077; Mar. 29; Sp. p. 5355; Gaz. vol. 152; p. 985.
Rubber sole-protector for boots and shoes. E. Fuller. No. 955,509; Apr. 19; Sp. p. 3909; Gaz. vol. 153; p. 686.
Rubber stamp. C. C. Gibson. No. 972,359; Oct. 11; Sp. p. 1831; Gaz. vol. 159; p. 321.
Rubber-stamp rack. Z. D. Graham. No. 954,793; Apr. 12; Sp. p. 2381; Gaz. vol. 153; p. 411.
Rubber to powder, Machine for reducing vulcanized. T. Gare. No. 969,100; Aug. 30; Sp. p. 6928; Gaz. vol. 157; p. 1206.
Rubber tubing for tires, &c. A. D. Warner. No. 945,353; Jan. 4; Sp. p. 759; Gaz. vol. 150; p. 116.
Rubber, Utilization of waste. A. Gentzsch. No. 951,811; Mar. 15; Sp. p. 2745; Gaz. vol. 152; p. 502.
Rubber, Vulcanizing. H. F. Pendleton. No. 956,409; Apr. 26; Sp. p. 5898; Gaz. vol. 153; p. 1025.
Rubber waste, Apparatus for use in reclaiming vulcanized-. C. S. Heller. No. 978,583; Dec. 13; Sp. p. 2538; Gaz. vol. 161; p. 433.
Rubber waste, Reclaiming vulcanized-. C. S. Heller. No. 978,584; Dec. 13; Sp. p. 2543; Gaz. vol. 161; p. 433.
Rubbish-burner, Safety portable. W. M. Jackson. No. 962,148; June 21; Sp. p. 4014; Gaz. vol. 155; p. 697.
Rudder. S. B. McNeely. No. 956,404; Apr. 26; Sp. p. 5887; Gaz. vol. 153; p. 1023.
Rudder. W. R. Bennett. No. 971,240; Sept. 27; Sp. p. 4483; Gaz. vol. 158; p. 784.
Rudder for boats and ships. F. Munster. No. 952,462; Mar. 22; Sp. p. 4035; Gaz. vol. 152; p. 747.
Rudder for controlling the various movements of screw-propelled vessels and means for operating same. J. P. H. Lund. No. 947,833; Feb. 1; Sp. p. 92; Gaz. vol. 151; p. 19.
Rudder-telltale. E. M. Stone. No. 945,819; Jan. 11; Sp. p. 1805; Gaz. vol. 150; p. 302.
Ruffling and stitching machine. A. H. De Voe. No. 949,725; Feb. 15; Sp. p. 4038; Gaz. vol. 151; p. 702.
Ruffling and stitching machine. A. H. De Voe. No. 955,951; Apr. 26; Sp. p. 4896; Gaz. vol. 153; p. 867.
Rug and carpet stretcher. A. E. Johnston. No. 967,929; Aug. 23; Sp. p. 4428; Gaz. vol. 157; p. 779.
Rugs during finishing, &c., Holder for. A. C. Schoen. No. 974,527; Nov. 1; Sp. p. 1039; Gaz. vol. 160; p. 155.
Rule. S. A. Gaster. No. 965,450; July 26; Sp. p. 5296; Gaz. vol. 156; p. 905.
Rule. H. Gasstrom. No. 978,446; Dec. 13; Sp. p. 2219; Gaz. vol. 161; p. 385.
Rule. D. E. Werts. No. 978,525; Dec. 13; Sp. p. 2393; Gaz. vol. 161; p. 412.
Rule, Draftsman's. F. W. Altpeter. No. 963,737; July 12; Sp. p. 1579; Gaz. vol. 156; p. 265.
Rule, Folding. J. F. Borne. No. 955,314; Apr. 19; Sp. p. 3490; Gaz. vol. 153; p. 620.
Rule-gage. E. Stone. No. 955,369; Apr. 19; Sp. p. 3616; Gaz. vol. 153; p. 638.
Rule, Jointed. L. J. Swett. No. 972,134; Oct. 4; Sp. p. 1339; Gaz. vol. 159; p. 226.
Ruler. C. H. Westcott. No. 979,234; Dec. 20; Sp. p. 3954; Gaz. vol. 161; p. 683.
Ruler, Adjustable curve-. C. O. Harper. No. 950,285; Feb. 22; Sp. p. 5321; Gaz. vol. 151; p. 933.
Ruler and blotter-holder, Combination. W. E. Jackson. No. 955,879; Apr. 26; Sp. p. 4760; Gaz. vol. 153; p. 842.
Ruler and paper-cutter, Combined. F. A. Dibrell. No. 963,001; June 28; Sp. p. 5787; Gaz. vol. 155; p. 1013.
Ruler, Parallel-. W. A. Porter. No. 967,431; Aug. 16; Sp. p. 3417; Gaz. vol. 157; p. 589.
Ruler, Posting-. W. Morris. No. 960,031; May 31; Sp. p. 7840; Gaz. vol. 154; p. 1317.
Ruling device. M. Meyerheim. No. 973,534; Oct. 25; Sp. p. 4456; Gaz. vol. 159; p. 778.
Ruling device, Line-. C. W. Holtz. No. 955,161; Apr. 19; Sp. p. 3159; Gaz. vol. 153; p. 568.
Ruling device, Line-. E. Pickwick, Jr. No. 976,687; Nov. 22; Sp. p. 5724; Gaz. vol. 160; p. 969.
Ruling-machine. V. Royle. No. 969,496; Sept. 6; Sp. p. 730; Gaz. vol. 158; p. 115.
Runner. J. R. Faber. No. 964,151; July 12; Sp. p. 2471; Gaz. vol. 156; p. 405.
Runner-cutter and plant-topper. M. E. Garwood. No. 959,003; May 24; Sp. p. 5623; Gaz. vol. 154; p. 945.
Running-boards, Supporting-saddle for. W. F. Cremean. No. 956,945; May 3; Sp. p. 961; Gaz. vol. 154; p. 153.
Running-gear. W. E. Groover. No. 953,689; Apr. 5; Sp. p. 20; Gaz. vol. 153; p. 6.
Running-gear. H. Higgin. No. 959,935; May 31; Sp. p. 7599; Gaz. vol. 154; p. 1283.

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Running-gear construction. E. Gruenfeldt. No. 960,897; June 7; Sp. p. 1324; Gaz. vol. 155; p. 222.
Running-gear, Swiveled. H. Higgin. No. 955,873; Apr. 26; Sp. p. 4739; Gaz. vol. 153; p. 840.
Rupture appliance. J. C. Hogle and A. Meyer. No. 948,627; Feb. 8; Sp. p. 1800; Gaz. vol. 151; p. 309.
Rural-free-delivery boxes, Support for. O. W. Randall. No. 954,588; Apr. 12; Sp. p. 1902; Gaz. vol. 153; p. 339.
Rural-route boxes, Coin and letter holder for. W. E. Ayers. No. 976,335; Nov. 22; Sp. p. 4978; Gaz. vol. 160; p. 848.
Rust-cleaner. C. R. Cannon. No. 976,342; Nov. 22; Sp. p. 5009; Gaz. vol. 160; p. 850.
Saccharine liquids, Defecation of. F. E. Coombs. No. 958,907; May 24; Sp. p. 5446; Gaz. vol. 154; p. 912.
Sack. C. L. Weatherwax. No. 962,934; June 28; Sp. p. 5657; Gaz. vol. 155; p. 990.
Sack-holder. F. C. Vonderahe, Jr. No. 945,646; Jan. 4; Sp. p. 1370; Gaz. vol. 150; p. 214.
Sack-holder. H. B. Sackett. No. 957,260; May 10; Sp. p. 1652; Gaz. vol. 154; p. 290.
Sack-holder. E. F. Kandlbinder. No. 972,870; Oct. 18; Sp. p. 2965; Gaz. vol. 159; p. 525.
Sacks, Apparatus for covering filled. W. E. Murray. No. 945,572; Jan. 4; Sp. p. 1222; Gaz. vol. 150; p. 189.
Sad-iron. O. Spahr and C. Stichler. No. 948,773; Feb. 8; Sp. p. 2117; Gaz. vol. 151; p. 359.
Sad-iron. C. T. Johnson. No. 949,481; Feb. 15; Sp. p. 3568; Gaz. vol. 151; p. 622.
Sad-iron. J. M. Harper. No. 951,438; Mar. 8; Sp. p. 1985; Gaz. vol. 152; p. 345.
Sad-iron. C. E. Safford. No. 951,743; Mar. 8; Sp. p. 2593; Gaz. vol. 152; p. 448.
Sad-iron. L. Margolis. No. 952,011; Mar. 15; Sp. p. 3157; Gaz. vol. 152; p. 568.
Sad-iron. C. W. Amick. No. 957,532; May 10; Sp. p. 2212; Gaz. vol. 154; p. 382.
Sad-iron. J. M. Harper. No. 958,638; May 17; Sp. p. 4829; Gaz. vol. 154; p. 793.
Sad-iron. F. R. Shaffer. No. 961,378; June 14; Sp. p. 2340; Gaz. vol. 155; p. 413.
Sad-iron. M. Sunshine. No. 963,093; July 5; Sp. p. 155; Gaz. vol. 156; p. 23.
Sad-iron. J. B. Munson. No. 964,043; July 12; Sp. p. 2239; Gaz. vol. 156; p. 369.
Sad-iron. R. C. Seeley. No. 966,866; Aug. 9; Sp. p. 2241; Gaz. vol. 157; p. 368.
Sad-iron. J. W. Limbert. No. 967,138; Aug. 9; Sp. p. 2818; Gaz. vol. 157; p. 462.
Sad-iron. L. F. Parkhurst and H. G. Weeks. No. 969,976; Sept. 13; Sp. p. 1804; Gaz. vol. 158; p. 306.
Sad-iron. J. L. Ennis. No. 971,125; Sept. 27; Sp. p. 4219; Gaz. vol. 158; p. 745.
Sad-iron. W. W. Lind. No. 979,520; Dec. 27; Sp. p. 4533; Gaz. vol. 161; p. 800.
Sad-iron cleaner and polisher. N. E. Platt. No. 979,198; Dec. 20; Sp. p. 3873; Gaz. vol. 161; p. 670.
Sad-iron, Electric. H. G. Levy. No. 962,768; June 28; Sp. p. 5345; Gaz. vol. 155; p. 934.
Sad-iron, Electric. J. W. Phelps. No. 966,703; Aug. 9; Sp. p. 1842; Gaz. vol. 157; p. 315.
Sad-iron, Electric. A. H. Happe. No. 979,291; Dec. 20; Sp. p. 4076; Gaz. vol. 161; p. 701.
Sad-iron, Electrical. W. A. Braun. No. 974,232; Nov. 1; Sp. p. 337; Gaz. vol. 160; p. 48.
Sad-iron, Gas-heated. M. L. Udwin. No. 963,188; July 5; Sp. p. 410; Gaz. vol. 156; p. 58.
Sad-iron, Gas-heated. J. A. Wertz. No. 966,144; Aug. 2; Sp. p. 620; Gaz. vol. 157; p. 102.
Sad-iron, Gas-heated. A. H. Davies. No. 973,011; Oct. 18; Sp. p. 3312; Gaz. vol. 159; p. 575.
Sad-iron handle. J. M. Harper. No. 963,709; July 5; Sp. p. 1498; Gaz. vol. 156; p. 233.
Sad-iron handle. C. P. Eichler. No. 968,923; Aug. 30; Sp. p. 6579; Gaz. vol. 157; p. 1146.
Sad-iron handle. J. H. Throop. No. 973,998; Oct. 25; Sp. p. 5426; Gaz. vol. 159; p. 940.
Sad-iron heater. G. C. Lee. No. 945,557; Jan. 4; Sp. p. 1193; Gaz. vol. 150; p. 184.
Sad-iron heater. L. J. Jackson. No. 968,159; Aug. 23; Sp. p. 4965; Gaz. vol. 157; p. 857.
Sad-iron heater. W. H. Van Horn. No. 976,952; Nov. 29; Sp. p. 6349; Gaz. vol. 160; p. 1087.
Sad-iron heater and oven, Combined. H. C. Goeltz. No. 950,020; Feb. 22; Sp. p. 4791; Gaz. vol. 151; p. 842.
Sad-iron holder. F. E. Griffeth. No. 958,634; May 17; Sp. p. 4821; Gaz. vol. 154; p. 791.
Sad-iron, Self-heating. J. McGonegal and W. J. Francis. No. 951,091; Mar. 1; Sp. p. 1273; Gaz. vol. 152; p. 208.
Sad-iron, Self-heating. F. R. Shaffer. No. 961,377; June 14; Sp. p. 2338; Gaz. vol. 155; p. 413.
Sad-iron, Self-heating. F. D. Stotler. No. 966,717; Aug. 9; Sp. p. 1895; Gaz. vol. 157; p. 320.
Sad-iron shoe. C. H. Burk. No. 969,335; Sept. 6; Sp. p. 388; Gaz. vol. 158; p. 63.
Saddle. C. A. Persons. No. 959,591; May 31; Sp. p. 6854; Gaz. vol. 154; p. 1166.
Saddle for draft-animals. J. Drucker. No. 977,790; Dec. 6; Sp. p. 814; Gaz. vol. 161; p. 127.
Saddle, Harness-. W. C. Trask. No. 948,081; Feb. 1; Sp. p. 631; Gaz. vol. 151; p. 102.
Saddle, Harness-. W. E. Pitt. No. 955,102; Apr. 12; Sp. p. 3030; Gaz. vol. 153; p. 514.
Saddle, Harness-. A. Homann. No. 958,643; May 17; Sp. p. 4842; Gaz. vol. 154; p. 795.
Saddle, Riding-. C. W. Shepherd. No. 956,649; May 3; Sp. p. 309; Gaz. vol. 154; p. 51.
Saddle, Riding-. R. W. Stone. No. 969,995; Sept. 13; Sp. p. 1844; Gaz. vol. 158; p. 314.
Saddle, Shield-carrying. H. S. Baker. No. 967,306; Aug. 16; Sp. p. 3150; Gaz. vol. 157; p. 545.
Saddle-support. E. H. Pinkham. No. 975,791; Nov. 15; Sp. p. 3793; Gaz. vol. 160; p. 639.
Saddles or pads, Making harness. D. Krug. No. 952,449; Mar. 22; Sp. p. 4005; Gaz. vol. 152; p. 742.
Saddles, Thigh-pad for. J. Reisacher. No. 950,678; Mar. 1; Sp. p. 454; Gaz. vol. 152; p. 74.
Saddletree. J. W. Vance. No. 949,101; Feb. 15; Sp. p. 2780; Gaz. vol. 151; p. 493.
Saddletree. G. J. Hummel. No. 964,864; July 19; Sp. p. 4075; Gaz. vol. 156; p. 679.
Safe. V. A. Smith. No. 952,761; Mar. 22; Sp. p. 4706; Gaz. vol. 152; p. 850.
Safe. W. G. Nichols. No. 960,189; May 31; Sp. p. 8142; Gaz. vol. 154; p. 1369.
Safe. R. S. Elliott and G. Cook. No. 960,293; June 7; Sp. p. 104; Gaz. vol. 155; p. 21.
Safe. J. M. Allen. No. 960,767; June 7; Sp. p. 1074; Gaz. vol. 155; p. 180.
Safe. W. H. Hall and J. E. Dwyer. No. 964,861; July 19; Sp. p. 4069; Gaz. vol. 156; p. 678.
Safe. J. C. Brucklacher. No. 968,536; Aug. 30; Sp. p. 5752; Gaz. vol. 157; p. 1013.
Safe. W. Thomas. No. 973,825; Oct. 25; Sp. p. 5056; Gaz. vol. 159; p. 879.
Safe. J. J. Scott. No. 978,405; Dec. 13; Sp. p. 2138; Gaz. vol. 161; p. 372.
Safe and vault door. G. L. Damon. No. 952,980; Mar. 22; Sp. p. 5143; Gaz. vol. 152; p. 924.
Safe and vault protector. E. Menne. No. 948,929; Feb. 8; Sp. p. 2408; Gaz. vol. 151; p. 411.
Safe-deposit receptacle, Portable. J. W. Farley. No. 963,883; July 12; Sp. p. 1919; Gaz. vol. 156; p. 315.
Safe-door. H. C. Lowrie. No. 968,781; Aug. 30; Sp. p. 6296; Gaz. vol. 157; p. 1099.
Safe door, Bank-. G. M. Mercer. No. 963,236; July 5; Sp. p. 528; Gaz. vol. 156; p. 74.
Safe door, Burglar-proof-. L. G. Glazier. No. 958,624; May 17; Sp. p. 4799; Gaz. vol. 154; p. 788.
Safe for valuables, Portable. H. W. Woodruff. No. 965,495; July 26; Sp. p. 5379; Gaz. vol. 156; p. 921.
Safe having coin-operated lock. M. Emer. No. 971,366; Sept. 27; Sp. p. 4717; Gaz. vol. 158; p. 824.
Safe lock mechanism. J. Klosiensky. No. 965,586; July 26; Sp. p. 5608; Gaz. vol. 156; p. 954.
Safe locking mechanism. G. L. Damon. No. 952,981; Mar. 22; Sp. p. 5145; Gaz. vol. 152; p. 924.
Safe, Milk-. E. Riback. No. 968,264; Aug. 23; Sp. p. 5183; Gaz. vol. 157; p. 893.
Safe or vault. C. Bartels. No. 971,344; Sept. 27; Sp. p. 4672; Gaz. vol. 158; p. 817.
Safe protective means. W. Weikel. No. 955,234; Apr. 19; Sp. p. 3326; Gaz. vol. 153; p. 593.
Safe, Wall-. C. E. Blechschmidt. No. 957,183; May 10; Sp. p. 1470; Gaz. vol. 154; p. 262.
Safe, Wall-. C. F. Meilink. No. 960,981; June 7; Sp. p. 1485; Gaz. vol. 155; p. 250.
Safe, Wall-. C. F. Meilink and W. H. Reynolds. No. 960,982; June 7; Sp. p. 1486; Gaz. vol. 155; p. 250.
Safes, &c., Locking device for. W. H. Reynolds. No. 961,088; June 7; Sp. p. 1718; Gaz. vol. 155; p. 285.
Safes, Supporting and releasing mechanism for. A. Ridgley. No. 945,248; Jan. 4; Sp. p. 506; Gaz. vol. 150; p. 83.
Safes, vaults, &c., Attachment for combination-dials on. M. Mosler. No. 961,884; June 21; Sp. p. 3429; Gaz. vol. 155; p. 606.
Safety-brake. H. M. Reiter. No. 979,336; Dec. 20; Sp. p. 4153; Gaz. vol. 161; p. 716.
Safety-burner. J. W. Dearing. No. 955,949; Apr. 26; Sp. p. 4892; Gaz. vol. 153; p. 866.
Safety-burner. E. Roth. No. 963,251; July 5; Sp. p. 581; Gaz. vol. 156; p. 80.
Safety-can. J. S. Lang. No. 950,929; Mar. 1; Sp. p. 977; Gaz. vol. 152; p. 156.
Safety-clasp. O. Sherman. No. 950,408; Feb. 22; Sp. p. 5545; Gaz. vol. 151; p. 971.
Safety device. T. W. Lingard. No. 952,915; Mar. 22; Sp. p. 5019; Gaz. vol. 152; p. 902.
Safety device. P. S. Ward. No. 969,318; Sept. 6; Sp. p. 346; Gaz. vol. 158; p. 57.
Safety device. G. W. Markle. No. 979,978; Dec. 27; Sp. p. 5531; Gaz. vol. 161; p. 955.
Safety-elevator. H. W. Dunlap and J. S. Lumbley. No. 951,680; Mar. 8; Sp. p. 2469; Gaz. vol. 152; p. 428.
Safety-gate. E. Krancher. No. 957,065; May 3; Sp. p. 1219; Gaz. vol. 154; p. 193.
Safety-gate. G. R. Freak. No. 979,458; Dec. 27; Sp. p. 4403; Gaz. vol. 161; p. 779.
Safety guard or support. L. B. Melius. No. 959,368; May 24; Sp. p. 6371; Gaz. vol. 154; p. 1065.

Safety-hook. C. D. Smith. No. 979,347; Dec. 20; Sp. p. 4170; Gaz. vol. 161; p. 719.
Safety limit-switch. W. W. and G. A. Pierce. No. 971,307; Sept. 27; Sp. p. 4594; Gaz. vol. 158; p. 804.
Safety-lock. C. A. Müller. No. 973,455; Oct. 18; Sp. p. 4276; Gaz. vol. 159; p. 728.
Safety-lock. N. Reinehr. No. 975,717; Nov. 15; Sp. p. 3642; Gaz. vol. 160; p. 613.
Safety-pin. A. E. Shupe. No. 951,459; Mar. 8; Sp. p. 2036; Gaz. vol. 152; p. 352.
Safety-pin. J. Johnson. No. 951,567; Mar. 8; Sp. p. 2244; Gaz. vol. 152; p. 390.
Safety-pin. W. R. Dancy and C. B. Westcott. No. 959,472; May 31; Sp. p. 6596; Gaz. vol. 154; p. 1125.
Safety-pin-making machine. H. B. Church. No. 962,126; June 21; Sp. p. 3959; Gaz. vol. 155; p. 689.
Safety-pin, Three-pronged. A. Frederiksen. No. 959,499; May 31; Sp. p. 6662; Gaz. vol. 154; p. 1135.
Safety-switch. J. T. Andrew. No. 949,693; Feb. 15; Sp. p. 3969; Gaz. vol. 151; p. 691.
Safety-switch. M. Fuss. No. 953,415; Mar. 29; Sp. p. 6108; Gaz. vol. 152; p. 1097.
Safety-tube and pop-off valve. W. H. McNutt. No. 967,544; Aug. 16; Sp. p. 3649; Gaz. vol. 157; p. 627.
Sage-brush cutter. R. G. Gose. No. 969,469; Sept. 6; Sp. p. 659; Gaz. vol. 158; p. 106.
Saggar. W. W. Babington. No. 947,880; Feb. 1; Sp. p. 224; Gaz. vol. 151; p. 36.
Saliva-ejector. M. W. Levkowicz. No. 950,109; Feb. 22; Sp. p. 4949; Gaz. vol. 151; p. 871.
Saliva-ejector. J. B. Jordan. No. 951,130; Mar. 8; Sp. p. 1356; Gaz. vol. 152; p. 246.
Salmon-smoking apparatus. H. Lindenberger. No. 961,869; June 21; Sp. p. 3398; Gaz. vol. 155; p. 601.
Salt and pepper holder. J. T. Stapleton. No. 963,333; July 5; Sp. p. 743; Gaz. vol. 156; p. 107.
Salt and pepper holder. H. W. Comstock. No. 972,339; Oct. 11; Sp. p. 1788; Gaz. vol. 159; p. 314.
Salt and pepper shaker. M. F. Pane. No. 975,451; Nov. 15; Sp. p. 3062; Gaz. vol. 160; p. 523.
Salt and recovering its impurities as by-products, Refining. C. Glaser and G. J. Muller. No. 957,416; May 10; Sp. p. 1979; Gaz. vol. 154; p. 343.
Salt, Refining. C. Glaser and G. J. Muller. No. 957,417; May 10; Sp. p. 1986; Gaz. vol. 154; p. 343.
Salt-shaker. C. W. Lind. No. 960,650; June 7; Sp. p. 843; Gaz. vol. 155; p. 138.
Salt-shaker. S. P. Isbell. No. 979,500; Dec. 27; Sp. p. 4489; Gaz. vol. 161; p. 793.
Salt-shaker, Non-clogging. J. Culy. No. 979,263; Dec. 20; Sp. p. 4027; Gaz. vol. 161; p. 692.
Salts and ammoniacal liquor, Utilizing by-product metallic. F. J. Falding. No. 961,764; June 21; Sp. p. 3154; Gaz. vol. 155; p. 566.
Salts, Decomposing. J. Whiting. No. 951,228; Mar. 8; Sp. p. 1540; Gaz. vol. 152; p. 277.
Salts, Making pure ortho- and para-guaiacol sulfonic. B. R. Seifert and H. Hähle. No. 962,103; June 21; Sp. p. 3891; Gaz. vol. 155; p. 680.
Salts, Production of ferric. A. G. Betts. No. 969,833; Sept. 13; Sp. p. 1499; Gaz. vol. 158; p. 258.
Salting device, Automatic stock-. F. and T. L. Peifer. No. 948,794; Feb. 8; Sp. p. 2154; Gaz. vol. 151; p. 367.
Salting-machine. W. S. Miller. No. 978,615; Dec. 13; Sp. p. 2610; Gaz. vol. 161; p. 445.
Sample-case. J. Glossinger. No. 974,874; Nov. 8; Sp. p. 1805; Gaz. vol. 160; p. 299.
Sample-holder. C. M. McLeod. No. 962,658; June 28; Sp. p. 5118; Gaz. vol. 155; p. 894.
Sample-holder. A. Schuch and G. H. Tegmeier. No. 975,293; Nov. 8; Sp. p. 2735; Gaz. vol. 160; p. 443.
Sand and gravel cleaning machine. C. J. Welty. No. 970,584; Sept. 20; Sp. p. 3070; Gaz. vol. 158; p. 535.
Sand and gravel screen. J. H. Gmelin. No. 964,237; July 12; Sp. p. 2634; Gaz. vol. 156; p. 433.
Sand and gravel separator. H. A. Frankenstein and F. H. Amos. No. 968,928; Aug. 30; Sp. p. 6587; Gaz. vol. 157; p. 1147.
Sand and like material, Apparatus for washing. S. A. Capron. No. 978,693; Dec. 13; Sp. p. 2757; Gaz. vol. 161; p. 470.
Sand-blast apparatus. G. F. Steedman. No. 955,714; Apr. 19; Sp. p. 4382; Gaz. vol. 153; p. 756.
Sand-blast apparatus. W. P. Mott. No. 975,782; Nov. 15; Sp. p. 3778; Gaz. vol. 160; p. 636.
Sand-blast, Closed-hopper. G. F. Steedman. No. 979,897; Dec. 27; Sp. p. 5372; Gaz. vol. 161; p. 929.
Sand-blast device. A. Jorn, Jr. No. 977,453; Dec. 6; Sp. p. 54; Gaz. vol. 161; p. 11.
Sand-blast machine. C. A. Dreisbach. No. 948,270; Feb. 1; Sp. p. 996; Gaz. vol. 151; p. 164.
Sand-blast machine. C. F. Motz. No. 955,468; Apr. 19; Sp. p. 3821; Gaz. vol. 153; p. 671.
Sand-blast machine. C. F. Motz. No. 955,469; Apr. 19; Sp. p. 3823; Gaz. vol. 153; p. 672.
Sand-blast machine. C. F. Motz. No. 955,470; Apr. 19; Sp. p. 3825; Gaz. vol. 153; p. 672.
Sand-blast machine. C. F. Motz. No. 955,471; Apr. 19; Sp. p. 3826; Gaz. vol. 153; p. 672.
Sand-blasting, Shield for hollow articles in. L. Bucsko. No. 977,268; Nov. 29; Sp. p. 7037; Gaz. vol. 160; p. 1197.
Sand-box. F. J. Frantz. No. 963,885; July 12; Sp. p. 1921; Gaz. vol. 156; p. 316.
Sand-cleaning machine. H. Arps. No. 966,294; Aug. 2; Sp. p. 942; Gaz. vol. 157; p. 151.
Sand, Cleaning molding-. R. A. Smith. No. 962,265; June 21; Sp. p. 4252; Gaz. vol. 155; p. 736.
Sand cooling and tempering apparatus. D. Giles. No. 952,897; Mar. 22; Sp. p. 4983; Gaz. vol. 152; p. 896.
Sand-cutting machine. G. W. Lorimer. No. 973,523; Oct. 25; Sp. p. 4430; Gaz. vol. 159; p. 774.
Sand-drier. D. M. Jackson and L. Fleischbein. No. 948,330; Feb. 8; Sp. p. 1144; Gaz. vol. 151; p. 210.
Sand-drying apparatus. H. C. Freeman. No. 963,133; July 5; Sp. p. 271; Gaz. vol. 156; p. 37.
Sand heater and drier. C. A. Mullen. No. 965,214; July 26; Sp. p. 4774; Gaz. vol. 156; p. 825.
Sand-mold flask. J. Macphail. No. 952,678; Mar. 22; Sp. p. 4524; Gaz. vol. 152; p. 822.
Sand-mold jacket. J. Macphail. No. 952,679; Mar. 22; Sp. p. 4526; Gaz. vol. 152; p. 823.
Sand molds, Forming. J. A. Rathbone. No. 949,498; Feb. 15; Sp. p. 3601; Gaz. vol. 151; p. 627.
Sand-molding machine. W. C. Norcross. No. 954,399; Apr. 5; Sp. p. 1484; Gaz. vol. 153; p. 247.
Sand or other fine particles from cotton or other material, Apparatus for removing. F. B. Cumpston. No. 952,880; Mar. 22; Sp. p. 4948; Gaz. vol. 152; p. 890.
Sand-screen. P. G. Tress. No. 973,895; Oct. 25; Sp. p. 5215; Gaz. vol. 159; p. 904.
Sand-spouts, Ice-protector for. B. C. Loring. No. 964,985; July 19; Sp. p. 4310; Gaz. vol. 156; p. 720.
Sand-tempering machine. J. J. Valiquett and C. F. Roush. No. 978,961; Dec. 20; Sp. p. 3331; Gaz. vol. 161; p. 587.
Sand-washer. C. A. Dahlstrom. No. 971,528; Oct. 4; Sp. p. 35; Gaz. vol. 159; p. 8.
Sand-wheel. T. Nichols. No. 946,920; Jan. 18; Sp. p. 4307; Gaz. vol. 150; p. 707.
Sand-wheel. G. H. Davidson. No. 975,331; Nov. 8; Sp. p. 2820; Gaz. vol. 160; p. 456.
Sands or the like with liquids, Treatment of. C. E. D. Usher. No. 949,455; Feb. 15; Sp. p. 3511; Gaz. vol. 151; p. 613.
Sander. C. H. Robertson. No. 960,584; June 7; Sp. p. 705; Gaz. vol. 155; p. 116.
Sander devices, Trap for. H. Vissering. No. 951,207; Mar. 8; Sp. p. 1498; Gaz. vol. 152; p. 271.
Sander or polishing-machine. H. W. Sellner. No. 975,166; Nov. 8; Sp. p. 2468; Gaz. vol. 160; p. 400.
Sander, Vacuum air-. C. A. Pratte. No. 953,228; Mar. 29; Sp. p. 5694; Gaz. vol. 152; p. 1034.
Sanding and rubbing machine. H. Westphal. No. 957,283; May 10; Sp. p. 1705; Gaz. vol. 154; p. 298.
Sanding device, Air. J. E. Scobee. No. 955,363; Apr. 19; Sp. p. 3601; Gaz. vol. 153; p. 636.
Sanding-machine. T. Nichols. No. 957,515; May 10; Sp. p. 2174; Gaz. vol. 154; p. 376.
Sanding-machine. Z. P. Charpentier. No. 967,729; Aug. 16; Sp. p. 4021; Gaz. vol. 157; p. 689.
Sanding-machine. G. Simon. No. 978,497; Dec. 13; Sp. p. 2332; Gaz. vol. 161; p. 402.
Sandpaper-applying device. C. C. Sadler. No. 945,477; Jan. 4; Sp. p. 1008; Gaz. vol. 150; p. 158.
Sandpaper-holder. E. Bell. No. 955,575; Apr. 19; Sp. p. 4034; Gaz. vol. 153; p. 708.
Sandpapering and polishing machine. A. Gustafson, R. Enszlin, and J. M. Reynolds. No. 949,181; Feb. 15; Sp. p. 2943; Gaz. vol. 151; p. 521.
Sandpapering-machine. F. Schimmel. No. 959,614; May 31; Sp. p. 6897; Gaz. vol. 154; p. 1174.
Sandpapering-machine. G. Smith. No. 963,481; July 5; Sp. p. 1036; Gaz. vol. 156; p. 157.
Sandpapering-machine. L. H. Breckenkamp. No. 971,114; Sept. 27; Sp. p. 4200; Gaz. vol. 158; p. 741.
Sandpapering-machine. G. A. Barker. No. 977,923; Dec. 6; Sp. p. 1091; Gaz. vol. 161; p. 173.
Sandal, Antislipping. H. C. Ashbaugh. No. 975,379; Nov. 8; Sp. p. 2925; Gaz. vol. 160; p. 472.
Sandal for swimmers. C. Brands. No. 951,936; Mar. 15; Sp. p. 3008; Gaz. vol. 152; p. 545.
Sanitary case for toilet articles and other uses. S. Woods. No. 965,787; July 26; Sp. p. 6027; Gaz. vol. 156; p. 1024.
Santalol compound. R. Berendes. No. 979,639; Dec. 27; Sp. p. 4804; Gaz. vol. 161; p. 843.
Sap-gathering tank. J. and H. Clark. No. 967,499; Aug. 16; Sp. p. 3572; Gaz. vol. 157; p. 612.
Sap or gum extractor. J. T. Gilmer. No. 961,953; June 21; Sp. p. 3571; Gaz. vol. 155; p. 629.
Saponaceous compound. E. Weiss. No. 954,486; Apr. 12; Sp. p. 1682; Gaz. vol. 153; p. 305.
Sash, Air-tight revolving window-. L. Bofird. No. 970,173; Sept. 13; Sp. p. 2199; Gaz. vol. 158; p. 374.
Sash and sash-mounting. G. H. Lawrence. No. 953,210; Mar. 29; Sp. p. 5660; Gaz. vol. 152; p. 1028.
Sash and ventilator, Combined window. A. L. Straus. No. 953,355; Mar. 29; Sp. p. 5980; Gaz. vol. 152; p. 1076.
Sash attachment, Window-. L. J. Fishel. No. 965,096; July 19; Sp. p. 4541; Gaz. vol. 156; p. 757.

Alphabetical list of inventions—Continued.

Sash-balance. E. J. Reilly. No. 962,387; June 21; Sp. p. 4497; Gaz. vol. 155; p. 776.
Sash-balancing device. W. Sawyer. No. 978,400; Dec. 13; Sp. p. 2129; Gaz. vol. 161; p. 370.
Sash-bar. T. F. McGann. No. 947,617; Jan. 25; Sp. p. 5833; Gaz. vol. 150; p. 968.
Sash-bar. T. F. McGann. No. 960,677; June 7; Sp. p. 893; Gaz. vol. 155; p. 148.
Sash-center. P. F. Augenbraun. No. 951,042; Mar. 1; Sp. p. 1175; Gaz. vol. 152; p. 193.
Sash-closing mechanism. E. Georgeff. No. 970,036; Sept. 13; Sp. p. 1936; Gaz. vol. 158; p. 328.
Sash construction, Metal. W. R. Kinnear. No. 971,011; Sept. 20; Sp. p. 3967; Gaz. vol. 158; p. 679.
Sash-cord connector. F. T. Lippincott. No. 979,014; Dec. 20; Sp. p. 3449; Gaz. vol. 161; p. 605.
Sash-cord fastener. F. C. W. Kuehn. No. 968,572; Aug. 30; Sp. p. 5830; Gaz. vol. 157; p. 1027.
Sash-cord fastener. A. M. Woerner. No. 977,247; Nov. 29; Sp. p. 6997; Gaz. vol. 160; p. 1190.
Sash-cord guide. F. C. W. Kuehn. No. 958,653; May 17; Sp. p. 4856; Gaz. vol. 154; p. 791.
Sash-cord guide. R. J. Eakle. No. 969,094; Aug. 30; Sp. p. 6917; Gaz. vol. 157; p. 1204.
Sash-cords to weights, Device for feeding. J. W. Green. No. 951,071; Mar. 1; Sp. p. 1231; Gaz. vol. 152; p. 202.
Sash-fastener. J. Z. Krier. No. 946,141; Jan. 11; Sp. p. 2480; Gaz. vol. 150; p. 414.
Sash-fastener. C. E. Tayntor. No. 946,172; Jan. 11; Sp. p. 2568; Gaz. vol. 150; p. 426.
Sash-fastener. A. Kissinger. No. 948,588; Feb. 8; Sp. p. 1715; Gaz. vol. 151; p. 297.
Sash-fastener. E. L. Brenner. No. 948,918; Feb. 8; Sp. p. 2392; Gaz. vol. 151; p. 407.
Sash-fastener. J. A. Johnson. No. 949,359; Feb. 15; Sp. p. 3319; Gaz. vol. 151; p. 581.
Sash-fastener. G. W. Grodhaus. No. 950,324; Feb. 22; Sp. p. 5390; Gaz. vol. 151; p. 946.
Sash-fastener. M. J. Fogarty. No. 952,516; Mar. 22; Sp. p. 4155; Gaz. vol. 152; p. 764.
Sash-fastener. H. Morris. No. 959,150; May 24; Sp. p. 5932; Gaz. vol. 154; p. 993.
Sash-fastener. N. A. Booth. No. 963,504; July 5; Sp. p. 1083; Gaz. vol. 156; p. 165.
Sash-fastener. I. M. Deppen. No. 966,665; Aug. 9; Sp. p. 1771; Gaz. vol. 157; p. 302.
Sash-fastener. A. F. Smith. No. 969,208; Sept. 6; Sp. p. 141; Gaz. vol. 158; p. 23.
Sash-fastener. H. W. Holmes. No. 969,870; Sept. 13; Sp. p. 1576; Gaz. vol. 158; p. 271.
Sash-fastener. J. A. Shearer. No. 971,569; Oct. 4; Sp. p. 130; Gaz. vol. 159; p. 24.
Sash-fastener. J. H. Marsh. No. 973,285; Oct. 18; Sp. p. 3911; Gaz. vol. 159; p. 669.
Sash-fastener. J. A. Knasinski. No. 975,961; Nov. 15; Sp. p. 4128; Gaz. vol. 160; p. 698.
Sash-fastener. G. I. D. Johnson. No. 979,504; Dec. 27; Sp. p. 4496; Gaz. vol. 161; p. 794.
Sash fastener and lifter, Combination. F. Simmons. No. 959,081; May 24; Sp. p. 5794; Gaz. vol. 154; p. 971.
Sash fastener, Window-. H. Kellem. No. 959,145; May 24; Sp. p. 5922; Gaz. vol. 154; p. 991.
Sash fastener, Window-. M. E. Toothaker. No. 966,063; Aug. 2; Sp. p. 478; Gaz. vol. 157; p. 77.
Sash-fastening device. J. Jaksick. No. 974,570; Nov. 1; Sp. p. 1142; Gaz. vol. 160; p. 172.
Sash-hanger. G. L. Case. No. 960,817; June 7; Sp. p. 1171; Gaz. vol. 155; p. 195.
Sash-hanger. H. P. Sarchett. No. 971,313; Sept. 27; Sp. p. 4607; Gaz. vol. 158; p. 807.
Sash hanger, Window-. O. E. Parsons. No. 952,544; Mar. 22; Sp. p. 4225; Gaz. vol. 152; p. 775.
Sash-holder. A. S. Willson. No. 945,431; Jan. 4; Sp. p. 921; Gaz. vol. 150; p. 144.
Sash-holder. H. Mayne. No. 946,453; Jan. 11; Sp. p. 3255; Gaz. vol. 150; p. 524.
Sash-holder. H. G. Benedict. No. 949,695; Feb. 15; Sp. p. 3973; Gaz. vol. 151; p. 692.
Sash-holder. C. Hiatt and R. B. Page. No. 950,697; Mar. 1; Sp. p. 501; Gaz. vol. 152; p. 80.
Sash-holder. D. P. McQuiston. No. 968,589; Aug. 30; Sp. p. 5858; Gaz. vol. 157; p. 1033.
Sash holder and antirattler. C. S. Radford. No. 946,785; Jan. 18; Sp. p. 3967; Gaz. vol. 150; p. 659.
Sash holder and fastener. G. Haupt. No. 953,086; Mar. 29; Sp. p. 5390; Gaz. vol. 152; p. 988.
Sash holder and lock. K. Narahara. No. 974,696; Nov. 1; Sp. p. 1405; Gaz. vol. 160; p. 217.
Sash holder, Storm-. J. B. Lee, Jr. No. 966,930; Aug. 9; Sp. p. 2375; Gaz. vol. 157; p. 389.
Sash holder, Window-. F. E. Erickson. No. 967,746; Aug. 16; Sp. p. 4063; Gaz. vol. 157; p. 695.
Sash lift and lock. E. Mawdsley. No. 970,526; Sept. 20; Sp. p. 2954; Gaz. vol. 158; p. 515.
Sash-lock. D. A. Teeter. No. 946,570; Jan. 18; Sp. p. 3492; Gaz. vol. 150; p. 587.
Sash-lock. J. Bouniol. No. 946,818; Jan. 18; Sp. p. 4048; Gaz. vol. 150; p. 671.
Sash-lock. E. O. Daniels. No. 954,617; Apr. 12; Sp. p. 1966; Gaz. vol. 153; p. 349.
Sash-lock. H. A. Bennett. No. 954,915; Apr. 12; Sp. p. 2690; Gaz. vol. 153; p. 454.
Sash-lock. J. Esler. No. 955,778; Apr. 19; Sp. p. 4500; Gaz. vol. 153; p. 777.
Sash-lock. G. Harmuth. No. 956,963; May 3; Sp. p. 1016; Gaz. vol. 154; p. 159.
Sash-lock. G. J. Engert and R. D. Burnham. No. 958,864; May 24; Sp. p. 5346; Gaz. vol. 154; p. 897.
Sash-lock. A. B. Landis. No. 959,559; May 31; Sp. p. 6793; Gaz. vol. 154; p. 1155.
Sash-lock. S. G. Wellman. No. 959,981; May 31; Sp. p. 7707; Gaz. vol. 154; p. 1299.
Sash-lock. A. Rosenberg. No. 960,585; June 7; Sp. p. 707; Gaz. vol. 155; p. 117.
Sash-lock. P. L. Bernhard. No. 963,983; July 12; Sp. p. 2122; Gaz. vol. 156; p. 347.
Sash-lock. J. V. Mitchell. No. 966,939; Aug. 9; Sp. p. 2391; Gaz. vol. 157; p. 392.
Sash-lock. L. C. Petersen. No. 970,350; Sept. 13; Sp. p. 2569; Gaz. vol. 158; p. 433.
Sash-lock. T. N. Jones. No. 970,507; Sept. 20; Sp. p. 2904; Gaz. vol. 158; p. 507.
Sash-lock. E. Blossfeld. No. 971,350; Sept. 27; Sp. p. 4685; Gaz. vol. 158; p. 819.
Sash-lock. G. Lark. No. 972,769; Oct. 11; Sp. p. 2728; Gaz. vol. 159; p. 464.
Sash-lock. E. L. Watrous. No. 972,959; Oct. 18; Sp. p. 3205; Gaz. vol. 159; p. 557.
Sash-lock. W. A. Jordan. No. 979,861; Dec. 27; Sp. p. 5303; Gaz. vol. 161; p. 917.
Sash lock and antirattler. J. and A. J. De Mars. No. 954,719; Apr. 12; Sp. p. 2205; Gaz. vol. 153; p. 384.
Sash-lock and burglar-alarm, Combined. F. K. Heupel and I. B. Nordlinger. No. 961,229; June 14; Sp. p. 2004; Gaz. vol. 155; p. 362.
Sash-lock and weather-strip, Combined. T. O. Abbott. No. 946,305; Jan. 11; Sp. p. 2855; Gaz. vol. 150; p. 473.
Sash-lock, Burglar-alarm. M. Wheeler. No. 975,186; Nov. 8; Sp. p. 2518; Gaz. vol. 160; p. 407.
Sash-lock, Gravity. J. C. Weiler and G. Kleissler. No. 949,165; Feb. 15; Sp. p. 2910; Gaz. vol. 151; p. 516.
Sash-lock, Gravity. E. N. Brown. No. 976,777; Nov. 22; Sp. p. 5932; Gaz. vol. 160; p. 1001.
Sash lock, Metal-window-. F. F. Smith. No. 979,582; Dec. 27; Sp. p. 4681; Gaz. vol. 161; p. 822.
Sash lock, Window-. T. C. Staley. No. 947,950; Feb. 1; Sp. p. 361; Gaz. vol. 151; p. 58.
Sash lock, Window-. A. C. J. Roy. No. 956,427; Apr. 26; Sp. p. 5930; Gaz. vol. 153; p. 1032.
Sash, Metal window-. G. H. Forsyth. No. 945,225; Jan. 4; Sp. p. 452; Gaz. vol. 150; p. 75.
Sash, Metal window-. C. A. McGinnis. No. 961,730; June 14; Sp. p. 3058; Gaz. vol. 155; p. 530.
Sash, Metallic window-. E. R. Probert. No. 973,384; Oct. 18; Sp. p. 4128; Gaz. vol. 159; p. 704.
Sash, Metallic window-. A. W. Merritt. No. 976,198; Nov. 22; Sp. p. 4651; Gaz. vol. 160; p. 801.
Sash or window lock. W. E. Pelar. No. 979,884; Dec. 27; Sp. p. 5342; Gaz. vol. 161; p. 924.
Sash, Puttyless window-. R. Friedel. No. 970,438; Sept. 13; Sp. p. 2742; Gaz. vol. 158; p. 462.
Sash retainer, Window-. W. N. Cavileer. No. 965,987; Aug. 2; Sp. p. 306; Gaz. vol. 157; p. 50.
Sash, Reversible window-. E. L. Reguin. No. 980,005; Dec. 27; Sp. p. 5587; Gaz. vol. 161; p. 964.
Sash screen attachment, Window-. E. J. Beck and A. Kehlstrom. No. 975,496; Nov. 15; Sp. p. 3158; Gaz. vol. 160; p. 539.
Sash-securing means, Window-. J. E. Walter. No. 969,012; Aug. 30; Sp. p. 6752; Gaz. vol. 157; p. 1176.
Sash, Sheet-metal. C. A. McGinnis. No. 961,731; June 14; Sp. p. 3059; Gaz. vol. 155; p. 530.
Sash-slide. W. F. Gibbard. No. 947,552; Jan. 25; Sp. p. 5693; Gaz. vol. 150; p. 945.
Sash, Ventilating-. J. Benz and P. Rossbach. No. 957,836; May 10; Sp. p. 2822; Gaz. vol. 154; p. 484.
Sash-weight. E. S. Decker. No. 946,113; Jan. 11; Sp. p. 2427; Gaz. vol. 150; p. 404.
Sash-weight. C. A. Horner. No. 948,171; Feb. 1; Sp. p. 795; Gaz. vol. 151; p. 132.
Sash-weight. J. B. Lee. No. 953,341; Mar. 29; Sp. p. 5943; Gaz. vol. 152; p. 1071.
Sash-weight. T. Holland. No. 962,838; June 28; Sp. p. 5481; Gaz. vol. 155; p. 958.
Sash-weight mold. E. D. Levering. No. 953,999; Apr. 5; Sp. p. 629; Gaz. vol. 153; p. 112.
Sash-weight, Sectional. J. M. Cornell. No. 957,498; May 10; Sp. p. 2143; Gaz. vol. 154; p. 371.
Sash-weight, Sectional. C. R. Brown. No. 970,176; Sept. 13; Sp. p. 2203; Gaz. vol. 158; p. 375.
Sash, Window- H. Rhoads. No. 945,605; Jan. 4; Sp. p. 1478; Gaz. vol. 150; p. 199.
Sash, Window-. G. T. Polson. No. 947,719; Jan. 25; Sp. p. 6015; Gaz. vol. 150; p. 1002.
Sash, Window-. G. J. Miller. No. 948,515; Feb. 8; Sp. p. 1557; Gaz. vol. 151; p. 274.
Sash, Window-. W. P. Perkins. No. 954,003; Apr. 5; Sp. p. 635; Gaz. vol. 153; p. 113.
Sash, Window-. F. Callier. No. 958,992; May 24; Sp. p. 5599; Gaz. vol. 154; p. 941.

Sash, Window-. J. S. Hopper. No. 960,552; June 7; Sp. p. 645; Gaz. vol. 155; p. 105.
Sash, Window-. G. L. Whiteaker. No. 961,919; June 21; Sp. p. 3488; Gaz. vol. 155; p. 617.
Sash, Window-. J. V. Edwards. No. 962,501; June 28; Sp. p. 4780; Gaz. vol. 155; p. 841.
Sash, Window-. E. M. Matthews. No. 962,647; June 28; Sp. p. 5089; Gaz. vol. 155; p. 890.
Sash, Window-. A. H. Newpher. No. 973,546; Oct. 25; Sp. p. 4475; Gaz. vol. 159; p. 782.
Sash, Window-. A. H. Newpher. No. 973,547; Oct. 25; Sp. p. 4476; Gaz. vol. 159; p. 782.
Sash, Window-. J. J. Richardson. No. 975,719; Nov. 15; Sp. p. 3644; Gaz. vol. 160; p. 614.
Sash, Window-. E. M. Matthews. No. 977,415; Nov. 29; Sp. p. 7374; Gaz. vol. 160; p. 1246.
Sash, Window-. W. R. Crump. No. 977,712; Dec. 6; Sp. p. 659; Gaz. vol. 161; p. 101.
Sash, Window-. A. P. Burkhart. No. 979,423; Dec. 27; Sp. p. 4324; Gaz. vol. 161; p. 767.
Sash, Window-. P. W. Bowde. No. 979,741; Dec. 27; Sp. p. 5024; Gaz. vol. 161; p. 877.
Sausage-linking machine. H. C. Gohring. No. 972,181; Oct. 11; Sp. p. 1461; Gaz. vol. 159; p. 260.
Sausage, Making fish. M. F. Hahn. No. 974,660; Nov. 1; Sp. p. 1324; Gaz. vol. 160; p. 205.
Sausage-twisting machine. G. J. Trompeter. No. 973,086; Oct. 18; Sp. p. 3466; Gaz. vol. 159; p. 600.
Sausages and the like, Apparatus or device for piercing. C. H. Whitlock. No. 969,230; Sept. 6; Sp. p. 186; Gaz. vol. 158; p. 30.
Saw. H. L. Webster and J. G. Reding. No. 945,828; Jan. 11; Sp. p. 1831; Gaz. vol. 150; p. 306.
Saw. J. Sigoloff. No. 962,535; June 28; Sp. p. 4854; Gaz. vol. 155; p. 853.
Saw. J. W. Costello. No. 963,520; July 5; Sp. p. 1121; Gaz. vol. 156; p. 170.
Saw. E. G. Anderson. No. 963,848; July 12; Sp. p. 1843; Gaz. vol. 156; p. 303.
Saw. H. G. Aldridge. No. 964,602; July 19; Sp. p. 3442; Gaz. vol. 156; p. 588.
Saw. C. W. Stites. No. 973,231; Oct. 18; Sp. p. 3814; Gaz. vol. 159; p. 652.
Saw and brace, Breast. B. P. Hedderson. No. 945,720; Jan. 4; Sp. p. 1538; Gaz. vol. 150; p. 238.
Saw and handle for the same. J. Ullrich. No. 948,151; Feb. 1; Sp. p. 768; Gaz. vol. 151; p. 126.
Saw attachment. C. W. Newton. No. 976,902; Nov. 29; Sp. p. 6205; Gaz. vol. 160; p. 1068.
Saw attachment, Chain-. R. L. Muir. No. 951,510; Mar. 8; Sp. p. 2132; Gaz. vol. 152; p. 370.
Saw, Band-. W. B. Heyer. No. 978,374; Dec. 13; Sp. p. 2068; Gaz. vol. 161; p. 361.
Saw, bevel, and square, Combined. J. E. Larson and A. Hessel. No. 948,059; Feb. 1; Sp. p. 588; Gaz. vol. 151; p. 94.
Saw, Bone-. A. Meyer. No. 967,805; Aug. 16; Sp. p. 4167; Gaz. vol. 157; p. 714.
Saw, Carpenter's. A. M. Leonard and A. F. Klee. No. 966,932; Aug. 9; Sp. p. 2378; Gaz. vol. 157; p. 390.
Saw-clamp. R. S. Brown. No. 945,217; Jan. 4; Sp. p. 434; Gaz. vol. 150; p. 72.
Saw-clamp. C. S. Stevens. No. 960,208; May 31; Sp. p. 8181; Gaz. vol. 154; p. 1377.
Saw-clamp. B. F. Padrick. No. 960,389; June 7; Sp. p. 310; Gaz. vol. 155; p. 52.
Saw-clamp. F. A. Wuest. No. 961,665; June 14; Sp. p. 2943; Gaz. vol. 155; p. 509.
Saw-clamp. W. R. Gates. No. 964,508; July 19; Sp. p. 3207; Gaz. vol. 156; p. 555.
Saw-clamp. J. Auer. No. 971,815; Oct. 4; Sp. p. 633; Gaz. vol. 159; p. 111.
Saw-clamp. R. J. Koeberle. No. 979,967; Dec. 27; Sp. p. 5507; Gaz. vol. 161; p. 952.
Saw, Drag-. W. A. Lawrey. No. 947,182; Jan. 18; Sp. p. 4795; Gaz. vol. 150; p. 790.
Saw, Drag-. C. J. and P. May and G. D. Shannon. No. 964,669; July 19; Sp. p. 3571; Gaz. vol. 156; p. 611.
Saw, Drag-. M. L. Maxwell. No. 977,028; Nov. 29; Sp. p. 6524; Gaz. vol. 160; p. 1114.
Saw-feeding device. W. J. Smith. No. 977,755; Dec. 6; Sp. p. 734; Gaz. vol. 161; p. 115.
Saw filer and set. C. Miller. No. 976,091; Nov. 15; Sp. p. 4372; Gaz. vol. 160; p. 743.
Saw filer and setter. H. G. Watkins. No. 952,656; Mar. 22; Sp. p. 4481; Gaz. vol. 152; p. 815.
Saw-filing and saw-setting machine. J. Trunnel. No. 945,482; Jan. 4; Sp. p. 1016; Gaz. vol. 150; p. 159.
Saw filing and setting machine. S. D. Benoliel. No. 971,718; Oct. 4; Sp. p. 432; Gaz. vol. 159; p. 75.
Saw-filing device. J. S. Gwynne. No. 967,761; Aug. 16; Sp. p. 4087; Gaz. vol. 157; p. 700.
Saw-filing machine. H. Seifert. No. 979,892; Dec. 27; Sp. p. 5362; Gaz. vol. 161; p. 927.
Saw-filing machine, Circular-crosscut-. C. G. Goetz and B. Piechowski. No. 953,134; Mar. 29; Sp. p. 5502; Gaz. vol. 152; p. 1004.
Saw-fitting device. C. R. Pierce. No. 972,789; Oct. 11; Sp. p. 2764; Gaz. vol. 159; p. 470.
Saw-gage. G. A. Lambert. No. 954,192; Apr. 5; Sp. p. 1052; Gaz. vol. 153; p. 178.
Saw gage, Crosscut-. J. Morin. No. 948,594; Feb. 8; Sp. p. 1724; Gaz. vol. 151; p. 299.
Saw-guard. C. H. Burbank. No. 950,994; Mar. 1; Sp. p. 1101; Gaz. vol. 152; p. 177.
Saw-guide. I. L. Skeith. No. 969,810; Sept. 13; Sp. p. 1441; Gaz. vol. 158; p. 250.
Saw-guide. J. R. Berry. No. 973,848; Oct. 25; Sp. p. 5107; Gaz. vol. 159; p. 887.
Saw-guide. C. Miller. No. 973,953; Oct. 25; Sp. p. 5318; Gaz. vol. 159; p. 924.
Saw guide, Band-. H. B. Brueggemann. No. 964,846; July 19; Sp. p. 4038; Gaz. vol. 156; p. 672.
Saw guiding and feeding device. G. H. M. Baker. No. 969,240; Sept. 6; Sp. p. 200; Gaz. vol. 158; p. 33.
Saw-gummer. C. A. Chandler. No. 948,953; Feb. 8; Sp. p. 2465; Gaz. vol. 151; p. 419.
Saw-gummer. J. W. Mixter. No. 963,793; July 12; Sp. p. 1708; Gaz. vol. 156; p. 285.
Saw, Hand circular. H. A. Underwood. No. 967,087; Aug. 9; Sp. p. 2701; Gaz. vol. 157; p. 444.
Saw-handle. H. E. Speyer. No. 946,163; Jan. 11; Sp. p. 2534; Gaz. vol. 150; p. 423.
Saw-handle. E. M. Barton and J. Trump. No. 947,432; Jan. 25; Sp. p. 5406; Gaz. vol. 150; p. 905.
Saw-handle. W. E. Dillard. No. 951,104; Mar. 8; Sp. p. 1304; Gaz. vol. 152; p. 239.
Saw-handle. C. M. Minton. No. 952,923; Mar. 22; Sp. p. 5037; Gaz. vol. 152; p. 905.
Saw-handle. J. Sells. No. 956,196; Apr. 26; Sp. p. 5446; Gaz. vol. 153; p. 953.
Saw-handle. W. S. Locke. No. 962,904; June 28; Sp. p. 5603; Gaz. vol. 155; p. 981.
Saw-handle. E. E. Hawkins. No. 966,543; Aug. 9; Sp. p. 1529; Gaz. vol. 157; p. 261.
Saw-handle. W. S. Locke. No. 966,570; Aug. 9; Sp. p. 1591; Gaz. vol. 157; p. 271.
Saw-handle. B. B. Stepp. No. 968,710; Aug. 30; Sp. p. 6153; Gaz. vol. 157; p. 1074.
Saw-handle. H. S. Willett. No. 972,307; Oct. 11; Sp. p. 1732; Gaz. vol. 159; p. 304.
Saw-handle. O. Ohlson. No. 972,710; Oct. 11; Sp. p. 2608; Gaz. vol. 159; p. 444.
Saw handle, Crosscut-. R. Vaughn. No. 949,948; Feb. 22; Sp. p. 4566; Gaz. vol. 151; p. 816.
Saw-handle, Detachable. D. A. Markwith. No. 961,246; June 14; Sp. p. 2039; Gaz. vol. 155; p. 368.
Saw-handle, Removable. J. G. Harman. No. 950,390; Feb. 22; Sp. p. 5510; Gaz. vol. 151; p. 965.
Saw-handle, Removable. J. J. Weiss. No. 965,617; July 26; Sp. p. 5682; Gaz. vol. 156; p. 966.
Saw-jointer. A. Stecker. No. 977,233; Nov. 29; Sp. p. 6966; Gaz. vol. 160; p. 1184.
Saw liner and jointer, Veneer-. R. W. Jones. No. 978,895; Dec. 20; Sp. p. 3162; Gaz. vol. 161; p. 562.
Saw lubricator, Hand-. C. E. Lowe. No. 946,241; Jan. 11; Sp. p. 2708; Gaz. vol. 150; p. 450.
Saw machine, Drag-. R. J. McGhee. No. 947,928; Feb. 1; Sp. p. 306; Gaz. vol. 151; p. 51.
Saw machine, Drag-. F. A. McKee and F. R. Horel. No. 974,168; Nov. 1; Sp. p. 122; Gaz. vol. 160; p. 24.
Saw mill, Band-. W. H. Trout. No. 978,412; Dec. 13; Sp. p. 2154; Gaz. vol. 161; p. 374.
Saw mill, Gang-. W. M. Wilkin. No. 960,472; June 7; Sp. p. 462; Gaz. vol. 155; p. 78.
Saw, Portable power-. P. C. Burdick and R. Jessop. No. 962,003; June 21; Sp. p. 3668; Gaz. vol. 155; p. 645.
Saw, Pruning-. J. S. Bennett. No. 979,920; Dec. 27; Sp. p. 5420; Gaz. vol. 161; p. 937.
Saw-set. E. A. Parker. No. 946,704; Jan. 18; Sp. p. 3774; Gaz. vol. 150; p. 631.
Saw-set. T. F. Ward. No. 947,287; Jan. 25; Sp. p. 5060; Gaz. vol. 150; p. 856.
Saw-set. A. Tilden. No. 952,963; Mar. 22; Sp. p. 5114; Gaz. vol. 152; p. 918.
Saw-set. W. H. Swainston. No. 955,999; Apr. 26; Sp. p. 5002; Gaz. vol. 153; p. 884.
Saw-set. A. O. Turner. No. 960,446; June 7; Sp. p. 412; Gaz. vol. 155; p. 69.
Saw-set. C. M. Larson. No. 961,503; June 14; Sp. p. 2608; Gaz. vol. 155; p. 455.
Saw-set. J. W. Gaede. No. 964,417; July 12; Sp. p. 2984; Gaz. vol. 156; p. 493.
Saw-set. W. M. Potter. No. 968,686; Aug. 30; Sp. p. 6105; Gaz. vol. 157; p. 1067.
Saw-set. H. U. Kistner. No. 968,771; Aug. 30; Sp. p. 6276; Gaz. vol. 157; p. 1096.
Saw-set. C. Schachtschneider. No. 968,986; Aug. 30; Sp. p. 6700; Gaz. vol. 157; p. 1167.
Saw-set. J. Rogers. No. 971,079; Sept. 27; Sp. p. 4143; Gaz. vol. 158; p. 731.
Saw-set. L. W. Parkhurst. No. 971,141; Sept. 27; Sp. p. 4263; Gaz. vol. 158; p. 751.
Saw-set. R. D. Benjamin. No. 972,497; Oct. 11; Sp. p. 2123; Gaz. vol. 159; p. 370.
Saw-set. A. Link. No. 973,282; Oct. 18; Sp. p. 3907; Gaz. vol. 159; p. 668.
Saw-set. D. E. Fabun. No. 977,722; Dec. 6; Sp. p. 674; Gaz. vol. 161; p. 104.
Saw-set. J. B. Gallaher. No. 977,861; Dec. 6; Sp. p. 961; Gaz. vol. 161; p. 151.

Alphabetical list of inventions—Continued.

Saw-set. G. Reiss. No. 978,646; Dec. 13; Sp. p. 2679; Gaz. vol. 161; p. 456.
Saw-set. C. H. Bishop. No. 978,686; Dec. 13; Sp. p. 2748; Gaz. vol. 161; p. 468.
Saw-set. W. S. Fitzpatrick. No. 978,723; Dec. 13; Sp. p. 2829; Gaz. vol. 161; p. 480.
Saw set and jointer. J. W. Forrest. No. 972,354; Oct. 11; Sp. p. 1820; Gaz. vol. 159; p. 319.
Saw set, Crosscut-. F. W. P. Rajala. No. 955,901; Apr. 26; Sp. p. 4804; Gaz. vol. 153; p. 849.
Saw-setting machine. B. Hadley. No. 951,767; Mar. 8; Sp. p. 2645; Gaz. vol. 152; p. 457.
Saw-setting machine. R. W. Entrekin. No. 959,326; May 24; Sp. p. 6289; Gaz. vol. 154; p. 1052.
Saw-shaper. A. E. White. No. 956,915; May 3; Sp. p. 905; Gaz. vol. 154; p. 143.
Saw-shifter for gang-edgers. J. T. Stoddard. No. 967,994; Aug. 23; Sp. p. 4568; Gaz. vol. 157; p. 801.
Saw-swage. A. E. White. No. 948,197; Feb. 1; Sp. p. 850; Gaz. vol. 151; p. 140.
Saw, Swing-. A. P. Wylie. No. 969,505; Sept. 6; Sp. p. 749; Gaz. vol. 158; p. 118.
Saw-table and feeding apparatus. M. M. Maine. No. 975,970; Nov. 15; Sp. p. 4146; Gaz. vol. 160; p. 701.
Saw tension device, Wire-. J. M. Owens. No. 946,807; Jan. 18; Sp. p. 4027; Gaz. vol. 150; p. 668.
Saw tensioning and moving machine, Band-. J. E. and I. H. Hibbert. No. 971,841; Oct. 4; Sp. p. 693; Gaz. vol. 159; p. 122.
Saw-tool. C. L. Johnson. No. 946,048; Jan. 11; Sp. p. 2307; Gaz. vol. 150; p. 383.
Saw-tool. W. Wakley. No. 976,956; Nov. 29; Sp. p. 6360; Gaz. vol. 160; p. 1088.
Saw-tooth fastening. S. F. Davis. No. 971,732; Oct. 4; Sp. p. 475; Gaz. vol. 159; p. 82.
Saw, Tree-felling. E. F. Cannon. No. 973,258; Oct. 18; Sp. p. 3859; Gaz. vol. 159; p. 660.
Saw-trimmer for equalizing lengths of lumber, Automatic. F. Regenold. No. 977,750; Dec. 6; Sp. p. 724; Gaz. vol. 161; p. 114.
Saw trimmer, Rotary-. F. W. Albrecht. No. 977,256; Nov. 29; Sp. p. 7014; Gaz. vol. 160; p. 1192.
Saw wheel, Band-. M. T. Wertenbaker. No. 966,502; Aug. 9; Sp. p. 1413; Gaz. vol. 157; p. 247.
Saws, Attachment for endless chain. E. T. Purser. No. 945,600; Jan. 4; Sp. p. 1269; Gaz. vol. 150; p. 198.
Saws, Oscillation for gang-. J. L. Graham. No. 968,342; Aug. 23; Sp. p. 5345; Gaz. vol. 157; p. 921.
Saws, Separating-plate for board-cutting. J. W. and G. B. Burns. No. 955,379; Apr. 19; Sp. p. 3635; Gaz. vol. 153; p. 641.
Saws, Stock-guide for band-. E. C. Mershon. No. 971,685; Oct. 4; Sp. p. 365; Gaz. vol. 159; p. 64.
Saws, Tooth and link for chain. E. T. Purser. No. 945,599; Jan. 4; Sp. p. 1268; Gaz. vol. 150; p. 198.
Sawing and mitering machine. J. Dyer. No. 963,697; July 5; Sp. p. 1475; Gaz. vol. 156; p. 229.
Sawing circles, Machine for. P. L. Morgan and W. M. Brockenbrough. No. 974,172; Nov. 1; Sp. p. 138; Gaz. vol. 160; p. 25.
Sawing-machine. F. W. Lenz. No. 951,826; Mar. 15; Sp. p. 2768; Gaz. vol. 152; p. 506.
Sawing-machine. D. H. Smith. No. 951,920; Mar. 15; Sp. p. 2983; Gaz. vol. 152; p. 540.
Sawing-machine. A. B. and F. L. Ireland. No. 959,221; May 24; Sp. p. 6076; Gaz. vol. 154; p. 1016.
Sawing-machine. S. N. Krawchenko. No. 961,453; June 14; Sp. p. 2491; Gaz. vol. 155; p. 438.
Sawing-machine. J. H. Irwin. No. 974,971; Nov. 8; Sp. p. 2042; Gaz. vol. 160; p. 334.
Sawing-machine. H. Hastings. No. 976,075; Nov. 15; Sp. p. 4335; Gaz. vol. 160; p. 736.
Sawing-machine, Automatic. E. B. Sellew. No. 979,102; Dec. 20; Sp. p. 3648; Gaz. vol. 161; p. 634.
Sawing machine, Circular. A. Anderson. No. 945,436; Jan. 4; Sp. p. 927; Gaz. vol. 150; p. 145.
Sawing-machine, Portable. J. H. Longstreet. No. 955,975; Apr. 26; Sp. p. 4957; Gaz. vol. 153; p. 876.
Sawing-machine, Portable. J. H. Longstreet. No. 961,870; June 21; Sp. p. 3399; Gaz. vol. 155; p. 601.
Sawing-machine, Portable. C. S. Bishop. No. 968,114; Aug. 23; Sp. p. 4845; Gaz. vol. 157; p. 841.
Sawing machine, Stave-. J. B. Luttrell. No. 951,784; Mar. 8; Sp. p. 2685; Gaz. vol. 152; p. 463.
Sawing-machines, Saw-bar for motor-driven. P. R. Kramer. No. 951,282; Mar. 8; Sp. p. 1661; Gaz. vol. 152; p. 294.
Sawing or felling trees, Machine for. M. L. Fagan. No. 945,773; Jan. 11; Sp. p. 1703; Gaz. vol. 150; p. 286.
Sawing pipes, &c., Apparatus for. D. Heggie. No. 960,640; June 7; Sp. p. 822; Gaz. vol. 155; p. 135.
Sawbuck. J. S. Kemp. No. 951,399; Mar. 8; Sp. p. 1918; Gaz. vol. 152; p. 333.
Sawdust-conveyer. J. Class. No. 946,336; Jan. 11; Sp. p. 2914; Gaz. vol. 150; p. 483.
Sawmill. D. W. Jones. No. 963,770; July 12; Sp. p. 1637; Gaz. vol. 156; p. 275.
Sawmill-carriage. G. E. Campbell. No. 958,593; May 17; Sp. p. 4743; Gaz. vol. 154; p. 779.
Sawmill-carriage scraper. A. Reitz. No. 965,013; July 19; Sp. p. 4369; Gaz. vol. 156; p. 728.
Sawmill-carriages, Motor-driven set-works for. M. and H. W. Garland. No. 949,068; Feb. 15; Sp. p. 2716; Gaz. vol. 151; p. 483.
Sawmill-carriages, Offset for. H. S. Minor. No. 950,183; Feb. 22; Sp. p. 5107; Gaz. vol. 151; p. 896.
Sawmill-carriages, Wheel-guard and track-cleaner for. G. O. Beasley. No. 958,689; May 17; Sp. p. 4928; Gaz. vol. 154; p. 809.
Sawmill feed-carriage connection. W. H. Trout. No. 951,976; Mar. 15; Sp. p. 3083; Gaz. vol. 152; p. 557.
Sawmill feed mechanism. A. A. De Loach. No. 955,057; Apr. 12; Sp. p. 2953; Gaz. vol. 153; p. 500.
Sawmill-gearing. E. H. Chandler. No. 946,335; Jan. 11; Sp. p. 2913; Gaz. vol. 150; p. 483.
Sawmill-gearing. W. E. Carey. No. 964,750; July 19; Sp. p. 3839; Gaz. vol. 156; p. 639.
Sawmill-hog. H. G. Dittbenner. No. 945,496; Jan. 4; Sp. p. 1064; Gaz. vol. 150; p. 164.
Sawmill, Portable. G. Bryan. No. 951,937; Mar. 15; Sp. p. 3008; Gaz. vol. 152; p. 545.
Sawmill-refuse burner. A. B. Diplock. No. 969,158; Sept. 6; Sp. p. 14; Gaz. vol. 158; p. 5.
Sawmill set-works. E. Johnson. No. 952,811; Mar. 22; Sp. p. 4822; Gaz. vol. 152; p. 867.
Sawmill setting and receding mechanism. I. M. Thurlow. No. 973,588; Oct. 25; Sp. p. 4559; Gaz. vol. 159; p. 795.
Scabbard. B. J. Condon. No. 969,524; Sept. 6; Sp. p. 795; Gaz. vol. 158; p. 125.
Scaffold. H. O. Coffin. No. 951,596; Mar. 8; Sp. p. 2296; Gaz. vol. 152; p. 398.
Scaffold attachment. E. F. Wendt. No. 945,428; Jan. 4; Sp. p. 916; Gaz. vol. 150; p. 143.
Scaffold-bracket. C. F. Pinkley. No. 961,422; June 14; Sp. p. 2418; Gaz. vol. 155; p. 427.
Scaffold-bracket. W. H. Barrett. No. 965,854; Aug. 2; Sp. p. 16; Gaz. vol. 157; p. 5.
Scaffold-bracket. C. C. Reeder. No. 968,417; Aug. 23; Sp. p. 5488; Gaz. vol. 157; p. 946.
Scaffold-bracket. H. C. Wertz. No. 971,710; Oct. 4; Sp. p. 415; Gaz. vol. 159; p. 72.
Scaffold-bracket. J. C. Snyder. No. 974,609; Nov. 1; Sp. p. 1208; Gaz. vol. 160; p. 186.
Scaffold-chair. C. Calson. No. 960,501; June 7; Sp. p. 526; Gaz. vol. 155; p. 87.
Scaffold, Elevating-. M. Herrel. No. 959,740; May 31; Sp. p. 7156; Gaz. vol. 154; p. 1214.
Scaffold for flagpoles and the like, Traveling. J. A. Olafson. No. 957,473; May 10; Sp. p. 2088; Gaz. vol. 154; p. 362.
Scaffold, Hanging. E. Stranden. No. 955,011; Apr. 12; Sp. p. 2869; Gaz. vol. 153; p. 486.
Scaffold, Knockdown. A. Gilliland. No. 964,233; July 12; Sp. p. 2629; Gaz. vol. 156; p. 432.
Scaffold, Ladder-. J. K. F. Ruck. No. 966,244; Aug. 2; Sp. p. 857; Gaz. vol. 157; p. 136.
Scaffold, Portable. F. Nowodworski. No. 956,406; Apr. 26; Sp. p. 5892; Gaz. vol. 153; p. 1024.
Scaffold, Portable. J. Kitsteiner, Jr., and J. T. Uebbing. No. 965,717; July 26; Sp. p. 5882; Gaz. vol. 156; p. 999.
Scaffold, Portable. A. H. McGhan. No. 974,686; Nov. 1; Sp. p. 1378; Gaz. vol. 160; p. 214.
Scaffold, Portable folding window-. J. Volk. No. 976,233; Nov. 22; Sp. p. 4745; Gaz. vol. 160; p. 814.
Scaffold-support. E. M. and D. F. Cavanagh. No. 978,823; Dec. 13; Sp. p. 3010; Gaz. vol. 161; p. 511.
Scaffold-supporting means. E. H. Henderson. No. 959,008; May 24; Sp. p. 5631; Gaz. vol. 154; p. 946.
Scaffold, Traveling. T. H. Schlarmann. No. 950,350; Feb. 22; Sp. p. 5437; Gaz. vol. 151; p. 953.
Scaffold, Window-. A. B. Byrd. No. 969,521; Sept. 6; Sp. p. 789; Gaz. vol. 158; p. 124.
Scaffolding. W. Wells. No. 959,278; May 24; Sp. p. 6196; Gaz. vol. 154; p. 1035.
Scaffolding-bracket, Adjustable and reversible roof and ladder. C. W. Levander. No. 960,565; June 7; Sp. p. 671; Gaz. vol. 155; p. 110.
Scale. N. Nilson. No. 946,767; Jan. 18; Sp. p. 3916; Gaz. vol. 150; p. 653.
Scale. N. Nilson. No. 947,558; Jan. 25; Sp. p. 5702; Gaz. vol. 150; p. 947.
Scale. N. Nilson. No. 948,705; Feb. 8; Sp. p. 1962; Gaz. vol. 151; p. 336.
Scale. A. De Vilbiss, Jr. No. 948,991; Feb. 15; Sp. p. 2551; Gaz. vol. 151; p. 459.
Scale. W. B. MacDonald. No. 949,435; Feb. 15; Sp. p. 3486; Gaz. vol. 151; p. 609.
Scale. W. J. Fink. No. 953,522; Mar. 29; Sp. p. 6344; Gaz. vol. 152; p. 1136.
Scale. A. P. Johnstone. No. 954,302; Apr. 5; Sp. p. 1291; Gaz. vol. 153; p. 214.
Scale. H. B. Sherwood. No. 958,441; May 17; Sp. p. 4455; Gaz. vol. 154; p. 728.
Scale. B. E. Blair. No. 959,837; May 31; Sp. p. 7373; Gaz. vol. 154; p. 1248.
Scale. J. W. Culmer. No. 964,089; July 12; Sp. p. 2342; Gaz. vol. 156; p. 385.
Scale. L. Jaenichen. No. 966,554; Aug. 9; Sp. p. 1561; Gaz. vol. 157; p. 265.

Scale. J. Hopkinson. No. 967,194; Aug. 16; Sp. p. 2939; Gaz. vol. 157; p. 508.
Scale. H. S. Hallwood. No. 970,442; Sept. 13; Sp. p. 2751; Gaz. vol. 158; p. 463.
Scale. R. H. Forschner. No. 972,443; Oct. 11; Sp. p. 1998; Gaz. vol. 159; p. 351.
Scale. B. W. King. No. 973,669; Oct. 25; Sp. p. 4749; Gaz. vol. 159; p. 825.
Scale, Automatic car weighing and recording. G. Goetz. No. 978,874; Dec. 20; Sp. p. 3119; Gaz. vol. 161; p. 553.
Scale, Automatic recording car-. G. Goetz. No. 946,600; Jan. 18; Sp. p. 3548; Gaz. vol. 150; p. 597.
Scale, Automatic weighing-. A. L. Duncan. No. 968,749; Aug. 30; Sp. p. 6229; Gaz. vol. 157; p. 1089.
Scale, Automatic weighing-. R. J. McKeown and W. A. Kirkpatrick. No. 980,114; Dec. 27; Sp. p. 5849; Gaz. vol. 161; p. 1000.
Scale, Automatic weighing and recording car-. G. Goetz. No. 946,601; Jan. 18; Sp. p. 3552; Gaz. vol. 150; p. 598.
Scale, Automatically-computing weighing-. A. H. Shock. No. 952,219; Mar. 15; Sp. p. 3543; Gaz. vol. 152; p. 637.
Scale, Baggage-. W. B. MacDonald. No. 953,150; Mar. 29; Sp. p. 5536; Gaz. vol. 152; p. 1009.
Scale-beam, Net-weight. F. M. Clausen. No. 971,829; Oct. 4; Sp. p. 664; Gaz. vol. 159; p. 116.
Scale, Computing-. R. A. Forbes. No. 962,332; June 21; Sp. p. 4391; Gaz. vol. 155; p. 758.
Scale, Computing-. T. C. Prouty. No. 978,204; Dec. 13; Sp. p. 1710; Gaz. vol. 161; p. 301.
Scale, Computing weighing-. L. R. Meyer and R. J. Young. No. 976,275; Nov. 22; Sp. p. 4862; Gaz. vol. 160; p. 830.
Scale, Device for reproducing an object on a. G. F. Lattier. No. 961,359; June 14; Sp. p. 2308; Gaz. vol. 155; p. 408.
Scale dial, Computing-. J. E. Cochran. No. 956,682; May 3; Sp. p. 381; Gaz. vol. 154; p. 63.
Scale dial, Computing-. J. E. Cochran. No. 957,934; May 17; Sp. p. 3055; Gaz. vol. 154; p. 549.
Scale, Hopper-. H. Dunkerly. No. 953,127; Mar. 29; Sp. p. 5485; Gaz. vol. 152; p. 1001.
Scale-illuminating device, Computing-. C. B. Longstreth. No. 946,447; Jan. 11; Sp. p. 3245; Gaz. vol. 150; p. 522.
Scale, Machinist's. M. F. Jones. No. 979,768; Dec. 27; Sp. p. 5083; Gaz. vol. 161; p. 885.
Scale, Miner's and assayer's. H. S. Coe. No. 977,513; Dec. 6; Sp. p. 207; Gaz. vol. 161; p. 32.
Scale, Pocket-. E. N. Gilfillan. No. 960,535; June 7; Sp. p. 610; Gaz. vol. 155; p. 98.
Scale, Portable. T. L. Keppler. No. 978,306; Dec. 13; Sp. p. 1930; Gaz. vol. 161; p. 337.
Scale, Proportional. N. M. Blair. No. 946,483; Jan. 11; Sp. p. 3324; Gaz. vol. 150; p. 534.
Scale, Recording car-. G. Goetz. No. 979,401; Dec. 20; Sp. p. 4277; Gaz. vol. 161; p. 735.
Scale-relieving gear. A. W. Epright. No. 964,854; July 19; Sp. p. 4053; Gaz. vol. 156; p. 675.
Scale, Spring-. M. H. Hansen. No. 967,188; Aug. 16; Sp. p. 2927; Gaz. vol. 157; p. 506.
Scale, Spring-. L. Jaenichen. No. 978,026; Dec. 6; Sp. p. 1299; Gaz. vol. 161; p. 208.
Scale, Spring-. G. Walker. No. 979,611; Dec. 27; Sp. p. 4743; Gaz. vol. 161; p. 833.
Scale, Take-up. J. J. Killars. No. 951,006; Mar. 1; Sp. p. 1120; Gaz. vol. 152; p. 181.
Scale, Total-adding weighing-. W. B. Moon. No. 972,394; Oct. 11; Sp. p. 1902; Gaz. vol. 159; p. 334.
Scale, Truck-. E. L. Gage. No. 955,640; Apr. 19; Sp. p. 4207; Gaz. vol. 153; p. 731.
Scale, Wagon-. A. W. Fairchild. No. 976,351; Nov. 22; Sp. p. 5028; Gaz. vol. 160; p. 854.
Scale, Weighing-. J. M. Triner. No. 946,289; Jan. 11; Sp. p. 2810; Gaz. vol. 150; p. 468.
Scale, Weighing-. W. C. Carr. No. 947,693; Jan. 25; Sp. p. 5967; Gaz. vol. 150; p. 993.
Scale, Weighing-. N. Nilson. No. 953,390; Mar. 29; Sp. p. 6063; Gaz. vol. 152; p. 1089.
Scale, Weighing-. A. W. Epright. No. 956,322; Apr. 26; Sp. p. 5724; Gaz. vol. 153; p. 996.
Scale, Weighing-. N. M. Hansen. No. 960,905; June 7; Sp. p. 1337; Gaz. vol. 155; p. 225.
Scales, Approach-rail for track-. J. A. Rishel. No. 972,250; Oct. 11; Sp. p. 1618; Gaz. vol. 159; p. 284.
Scales, Corner-bracket for pitless wagon-. G. Jones. No. 971,757; Oct. 4; Sp. p. 521; Gaz. vol. 159; p. 91.
Scales, Holder for interchangeable. J. W. Brigham. No. 962,399; June 21; Sp. p. 4519; Gaz. vol. 155; p. 780.
Scales, Portable support for weighing-. W. H. Geary. No. 973,771; Oct. 25; Sp. p. 4946; Gaz. vol. 159; p. 860.
Scales, Stock-pen for. E. C. Hainline. No. 951,947; Mar. 15; Sp. p. 3025; Gaz. vol. 152; p. 548.
Scaling, annealing, and coating metals. S. O. Cowper-Cowles. No. 979,931; Dec. 27; Sp. p. 5440; Gaz. vol. 161; p. 940.
Scaling or climbing device. L. L. Allen. No. 952,720; Mar. 22; Sp. p. 4618; Gaz. vol. 152; p. 837.
Scarf-pin. J. F. Iannelli. No. 949,707; Feb. 15; Sp. p. 4003; Gaz. vol. 151; p. 696.
Scarf-pin holder. R. Fischer. No. 963,537; July 5; Sp. p. 1155; Gaz. vol. 156; p. 176.
Scene-shifting apparatus. F. W. Scott. No. 979,209; Dec. 20; Sp. p. 3892; Gaz. vol. 161; p. 673.
Scenery, Apparatus for handling hanging. S. G. Bailey. No. 977,500; Dec. 6; Sp. p. 167; Gaz. vol. 161; p. 28.
Scenery, &c., Apparatus for raising and lowering hanging. S. G. Bailey. No. 977,499; Dec. 6; Sp. p. 159; Gaz. vol. 161; p. 27.
Scenery, Mechanism for handling hanging. S. G. Bailey. No. 977,498; Dec. 6; Sp. p. 154; Gaz. vol. 161; p. 27.
Scenic curtain. F. Faunt Le Roy. No. 975,773; Nov. 15; Sp. p. 3758; Gaz. vol. 160; p. 633.
School-seat. W. B. Cogger. No. 975,019; Nov. 8; Sp. p. 2140; Gaz. vol. 160; p. 349.
Scissors. C. N. Wikander. No. 946,414; Jan. 11; Sp. p. 3173; Gaz. vol. 150; p. 511.
Scissors. F. O. Homme, J. T. Vollen, and I. L. Isaacson. No. 946,441; Jan. 11; Sp. p. 3229; Gaz. vol. 150; p. 519.
Scissors. J. W. Dowden. No. 959,481; May 31; Sp. p. 6613; Gaz. vol. 154; p. 1128.
Scissors. A. B. Ramsey. No. 967,436; Aug. 16; Sp. p. 3424; Gaz. vol. 157; p. 590.
Scissors and shears. A. K. Chapin. No. 947,626; Jan. 25; Sp. p. 5852; Gaz. vol. 150; p. 971.
Scissors, Device for serrating. G. M. Mikesell. No. 966,036; Aug. 2; Sp. p. 415; Gaz. vol. 157; p. 66.
Scissors, Dressmaker's. A. Hopkins. No. 961,235; June 14; Sp. p. 2019; Gaz. vol. 155; p. 364.
Scissors or shears. G. H. Isbell. No. 946,918; Jan. 18; Sp. p. 4305; Gaz. vol. 150; p. 706.
Scissors, Pneumatic. L. Stephany. No. 949,095; Feb. 15; Sp. p. 2766; Gaz. vol. 151; p. 492.
Scleroscope. A. F. Shore. No. 962,790; June 28; Sp. p. 5396; Gaz. vol. 155; p. 942.
Scoop. E. J. Droz. No. 952,313; Mar. 15; Sp. p. 3736; Gaz. vol. 152; p. 669.
Scoop or dipper, Excavating. C. L. McKenzie. No. 967,819; Aug. 16; Sp. p. 4195; Gaz. vol. 157; p. 719.
Scoop, Weighing-. A. Himottu. No. 949,766; Feb. 22; Sp. p. 4151; Gaz. vol. 151; p. 751.
Scoop, Weighing-. J. W. McConeghy. No. 977,668; Dec. 6; Sp. p. 562; Gaz. vol. 161; p. 85.
Score-board. J. P. Keenan. No. 947,411; Jan. 25; Sp. p. 5362; Gaz. vol. 150; p. 899.
Score-register. M. G. Decies. No. 959,203; May 24; Sp. p. 6045; Gaz. vol. 154; p. 1010.
Scoring-machine attachment. A. T. Meyer. No. 976,388; Nov. 22; Sp. p. 5110; Gaz. vol. 160; p. 867.
Scouring apparatus. R. H. Wainford. No. 953,450; Mar. 29; Sp. p. 6183; Gaz. vol. 152; p. 1108.
Scouring, grinding, and polishing machine. W. Service and W. J. Emley. No. 963,477; July 5; Sp. p. 1030; Gaz. vol. 156; p. 156.
Scouring-machine. H. F. Marshall and W. F. Clark. No. 957,074; May 3; Sp. p. 1238; Gaz. vol. 154; p. 196.
Scow. C. E. Fowler. No. 962,706; June 28; Sp. p. 5220; Gaz. vol. 155; p. 911.
Scow, Automatically-operating dumping-. G. V. Mitchell. No. 972,896; Oct. 18; Sp. p. 3043; Gaz. vol. 159; p. 536.
Scow, Dumping-. W. W. Robinson. No. 950,242; Feb. 22; Sp. p. 5234; Gaz. vol. 151; p. 918.
Scows, Hawser-securing device for. G. V. Mitchell. No. 972,895; Oct. 18; Sp. p. 3042; Gaz. vol. 159; p. 536.
Scraper. H. Kendle. No. 953,624; Mar. 29; Sp. p. 6550; Gaz. vol. 152; p. 1170.
Scraper. J. D. Vasey. No. 954,601; Apr. 12; Sp. p. 1933; Gaz. vol. 153; p. 343.
Scraper. O. and G. Peterson. No. 958,889; May 24; Sp. p. 5410; Gaz. vol. 154; p. 907.
Scraper. F. W. McLean. No. 963,630; July 5; Sp. p. 1342; Gaz. vol. 156; p. 207.
Scraper. S. F. Vose. No. 967,088; Aug. 9; Sp. p. 2702; Gaz. vol. 157; p. 444.
Scraper. D. J. Arpin. No. 969,764; Sept. 13; Sp. p. 1329; Gaz. vol. 158; p. 235.
Scraper. R. C. Glise. No. 970,323; Sept. 13; Sp. p. 2520; Gaz. vol. 158; p. 425.
Scraper and fender, Combined. D. B. Buttrill. No. 975,930; Nov. 15; Sp. p. 4070; Gaz. vol. 160; p. 686.
Scraper and grader, Road. J. Van Matre. No. 963,963; July 12; Sp. p. 2077; Gaz. vol. 156; p. 339.
Scraper, Block-. G. C. Bemis. No. 954,497; Apr. 12; Sp. p. 1717; Gaz. vol. 153; p. 308.
Scraper-bucket. H. L. Glaze. No. 976,163; Nov. 22; Sp. p. 4562; Gaz. vol. 160; p. 789.
Scraper, Drag-. K. K. Braddock. No. 967,319; Aug. 16; Sp. p. 3180; Gaz. vol. 157; p. 550.
Scraper, Earth-. G. W. Garrison. No. 979,283; Dec. 20; Sp. p. 4061; Gaz. vol. 161; p. 698.
Scraper for disk openers. E. R. Beeman. No. 975,499; Nov. 15; Sp. p. 3168; Gaz. vol. 160; p. 540.
Scraper, Hand-hole. H. B. Cockrell and H. B. Miller. No. 963,421; July 5; Sp. p. 921; Gaz. vol. 156; p. 137.
Scraper, Road-. S. Griffin. No. 945,088; Jan. 4; Sp. p. 174; Gaz. vol. 150; p. 29.
Scraper, Road-. T. and A. A. Addison. No. 947,707; Jan. 25; Sp. p. 5993; Gaz. vol. 150; p. 998.
Scraper, Road-. J. M. Harrington. No. 950,171; Feb. 22; Sp. p. 5083; Gaz. vol. 151; p. 892.
Scraper, Road-. H. Wiechelman. No. 959,668; May 31; Sp. p. 7017; Gaz. vol. 154; p. 1192.

Alphabetical list of inventions—Continued.

Scraper, Road-. C. H. Casner. No. 966,081; Aug. 2; Sp. p. 509; Gaz. vol. 157; p. 82.
Scraper, Road-. S. Richardson. No. 966,242; Aug. 2; Sp. p. 854; Gaz. vol. 157; p. 136.
Scraper, Road-. G. W. Spicer. No. 970,966; Sept. 20; Sp. p. 3887; Gaz. vol. 158; p. 664.
Scraper, Road-. G. D. Rhodes. No. 979,338; Dec. 20; Sp. p. 4158; Gaz. vol. 161; p. 717.
Scraper-shaping device. W. B. Cambron. No. 976,630; Nov. 22; Sp. p. 5628; Gaz. vol. 160; p. 951.
Scraper, Welded. T. H. Stagg. No. 960,052; May 31; Sp. p. 7888; Gaz. vol. 154; p. 1324.
Scraper, Wheel-. J. B. McClellan. No. 975,974; Nov. 15; Sp. p. 4153; Gaz. vol. 160; p. 702.
Scraper, Wheel-. W. H. Thomas and C. H. Rodgers. No. 970,277; Sept. 13; Sp. p. 2431; Gaz. vol. 158; p. 410.
Scraper, Wheeled. J. P. Robbins. No. 947,944; Feb. 1; Sp. p. 350; Gaz. vol. 151; p. 56.
Scrapers, Holding device for resetting. J. B. Cathy. No. 974,644; Nov. 1; Sp. p. 1289; Gaz. vol. 160; p. 199.
Scrapers, Means for automatically dumping excavating-. A. Skopinski. No. 960,590; June 7; Sp. p. 718; Gaz. vol. 155; p. 118.
Scraping-tool. A. A. Kraeuter. No. 953,171; Mar. 29; Sp. p. 5578; Gaz. vol. 152; p. 1016.
Scraping-tool. W. Pennell. No. 972,225; Oct. 11; Sp. p. 1573; Gaz. vol. 159; p. 276.
Screen: *See* Ash-screen; Automobile-screen; Car-opening screen; Centrifugal screen; Clay-screen; Clay and sand screen; Coal-screen; Color-screen; Door-screen; Fire-screen; Fish-screen; Fly-screen; Grain-separating screen; Headlight-screen; Metal screen; Metal-frame screen; Metallic screen; Mill-screen; Ore-screen; Paper-pulp screen; Paper-stock screen; Polychrome screen; Protective screen; Pulp-screen; Revoluble sizing-screen; Revolving screen; Revolving self-cleaning screen; Rotary screen; Sand-screen; Sand and gravel screen; Separating-screen; Shaking-screen; Sizing-screen; Threshing-machine screen; Vehicle wind-screen; Vibratory screen; Well-screen; Window-screen; Window and door screen; Window or door screen; X-ray screen.
Screen. C. C. Armstrong. No. 946,312; Jan. 11; Sp. p. 2873; Gaz. vol. 150; p. 476.
Screen. A. and R. Lomberk and C. Theringer. No. 946,971; Jan. 18; Sp. p. 4402; Gaz. vol. 150; p. 724.
Screen. R. M. Dixon. No. 948,313; Feb. 8; Sp. p. 1113; Gaz. vol. 151; p. 204.
Screen. S. C. Schofield. No. 948,433; Feb. 8; Sp. p. 1374; Gaz. vol. 151; p. 245.
Screen. R. A. Nitczhe. No. 949,362; Feb. 15; Sp. p. 3325; Gaz. vol. 151; p. 583.
Screen. H. Higgin. No. 950,634; Mar. 1; Sp. p. 364; Gaz. vol. 152; p. 59.
Screen. H. W. and W. W. Watson. No. 956,240; Apr. 26; Sp. p. 5552; Gaz. vol. 153; p. 968.
Screen. C. E. and W. C. Marsh. No. 956,391; Apr. 26; Sp. p. 5859; Gaz. vol. 153; p. 1019.
Screen. G. Dingman. No. 958,859; May 24; Sp. p. 5329; Gaz. vol. 154; p. 896.
Screen. J. R. Fogg. No. 967,358; Aug. 16; Sp. p. 3253; Gaz. vol. 157; p. 564.
Screen. J. M. Stone. No. 971,701; Oct. 4; Sp. p. 397; Gaz. vol. 159; p. 69.
Screen. H. L. Van Valkenburg. No. 972,299; Oct. 11; Sp. p. 1715; Gaz. vol. 159; p. 301.
Screen. J. B. Hoagland. No. 974,380; Nov. 1; Sp. p. 683; Gaz. vol. 160; p. 103.
Screen. D. Lewis. No. 975,441; Nov. 15; Sp. p. 3042; Gaz. vol. 160; p. 520.
Screen. C. D. Shrady. No. 975,470; Nov. 15; Sp. p. 3106; Gaz. vol. 160; p. 531.
Screen and storm door, Combination. C. Binger. No. 950,654; Mar. 1; Sp. p. 414; Gaz. vol. 152; p. 66.
Screen attachment. G. P. and P. D. Burke. No. 954,420; Apr. 12; Sp. p. 1532; Gaz. vol. 153; p. 281.
Screen-bed. A. O. S. Jones. No. 979,506; Dec. 27; Sp. p. 4499; Gaz. vol. 161; p. 795.
Screen-frame. S. T. Ashbaugh. No. 970,162; Sept. 13; Sp. p. 2171; Gaz. vol. 158; p. 370.
Screen-frames, Corner-piece for. G. E. Ferry. No. 973,643; Oct. 25; Sp. p. 4692; Gaz. vol. 159; p. 815.
Screen holder, Roll-. J. Callahan. No. 964,209; July 12; Sp. p. 2570; Gaz. vol. 156; p. 424.
Screen mechanism, Rotary. P. L. Scholl. No. 962,168; June 21; Sp. p. 4056; Gaz. vol. 155; p. 704.
Screen-plate fastener. M. J. Mollen. No. 954,452; Apr. 12; Sp. p. 1599; Gaz. vol. 153; p. 293.
Screen-plate-fastening means. W. G. Webb and J. H. Barnard. No. 959,979; May 31; Sp. p. 7702; Gaz. vol. 154; p. 1298.
Screen-plate holder. R. J. Welch. No. 955,622; Apr. 19; Sp. p. 4161; Gaz. vol. 153; p. 724.
Screen-plate lock. H. Case and D. A. Marshall. No. 964,753; July 19; Sp. p. 3845; Gaz. vol. 156; p. 640.
Screen-roller. J. D. Augsberger. No. 970,456; Sept. 20; Sp. p. 2785; Gaz. vol. 158; p. 489.
Screen sizing and separating machine. J. M. Callow. No. 947,331; Jan. 25; Sp. p. 5168; Gaz. vol. 150; p. 872.
Screens, Adjustable frame for table-. S. Crocker. No. 952,879; Mar. 22; Sp. p. 4944; Gaz. vol. 152; p. 890.
Screens, Slider for bolting-. A. Johnston and F. B. Peck. No. 946,548; Jan. 18; Sp. p. 3458; Gaz. vol. 150; p. 581.
Screening and sifting apparatus. I. Z. Monger. No. 946,782; Jan. 18; Sp. p. 3955; Gaz. vol. 150; p. 658.
Screening apparatus. E. Inglis. No. 973,787; Oct. 25; Sp. p. 4979; Gaz. vol. 159; p. 866.
Screening mechanism. H. A. Goetz. No. 950,170; Feb. 22; Sp. p. 5080; Gaz. vol. 151; p. 892.
Screening mechanism. W. W. Willson. No. 959,671; May 31; Sp. p. 7021; Gaz. vol. 954; p. 1192.
Screw. P. L. Robertson. No. 975,285; Nov. 8; Sp. p. 2720; Gaz. vol. 160; p. 440.
Screw-bore, Reinforcement. D. Craig. No. 977,709; Dec. 6; Sp. p. 655; Gaz. vol. 161; p. 100.
Screw-clamp. L. S. Starrett. No. 970,568; Sept. 20; Sp. p. 3039; Gaz. vol. 158; p. 529.
Screw, Contact or vibrator. W. L. Panikoff. No. 946,983; Jan. 18; Sp. p. 4419; Gaz. vol. 150; p. 727.
Screw-cutting attachment. F. E. Anthony. No. 945,901; Jan. 11; Sp. p. 2002; Gaz. vol. 150; p. 332.
Screw-cutting device. L. F. Hart. No. 962,024; June 21; Sp. p. 3709; Gaz. vol. 155; p. 652.
Screw-cutting-die head. W. Neumann. No. 971,303; Sept. 27; Sp. p. 4586; Gaz. vol. 158; p. 803.
Screw-cutting-machine cutter, Wood-. G. Weber. No. 956,748; May 3; Sp. p. 527; Gaz. vol. 154; p. 85.
Screw-cutting stock and die. F. L. Harker. No. 959,736; May 31; Sp. p. 7150; Gaz. vol. 154; p. 1213.
Screw-driver. J. L. Dunning. No. 950,318; Feb. 22; Sp. p. 5382; Gaz. vol. 151; p. 944.
Screw-driver. A. N. Bender. No. 954,073; Apr. 5; Sp. p. 785; Gaz. vol. 153; p. 136.
Screw-driver. E. Walker. No. 961,184; June 14; Sp. p. 1905; Gaz. vol. 155; p. 346.
Screw-driver. M. Boyd. No. 963,204; July 5; Sp. p. 465; Gaz. vol. 156; p. 64.
Screw-driver attachment. E. J. Douglas. No. 951,526; Mar. 8; Sp. p. 2165; Gaz. vol. 152; p. 376.
Screw-driver attachment. A. Loewenberg. No. 955,520; Apr. 19; Sp. p. 3934; Gaz. vol. 153; p. 690.
Screw-driver, Friction. H. W. Jacobs. No. 966,835; Aug. 9; Sp. p. 2182; Gaz. vol. 157; p. 359.
Screw-drivers, &c., Ratchet mechanism for. G. O. Leopold. No. 977,957; Dec. 6; Sp. p. 1167; Gaz. vol. 161; p. 186.
Screw-drivers, &c., Ratchet mechanism for. W. B. Lane. No. 979,862; Dec. 27; Sp. p. 5305; Gaz. vol. 161; p. 918.
Screw-drivers, wrenches, &c., Ratchet mechanism for. W. B. Lane. No. 969,379; Sept. 6; Sp. p. 494; Gaz. vol. 158; p. 79.
Screw-driving machine. W. P. Hunt. No. 950,534; Mar. 1; Sp. p. 153; Gaz. vol. 152; p. 26.
Screw-finishing machine. C. W. Howland. No. 979,006; Dec. 20; Sp. p. 3430; Gaz. vol. 161; p. 602.
Screw-head shaping and slotting device. G. T. Warwick. No. 976,758; Nov. 22; Sp. p. 5887; Gaz. vol. 160; p. 994.
Screw-head turning and nicking machine. W. Avery. No. 948,492; Feb. 8; Sp. p. 1504; Gaz. vol. 151; p. 266.
Screw-jack. M. C. Cumming. No. 961,106; June 14; Sp. p. 1753; Gaz. vol. 155; p. 318.
Screw-jack. C. T. Starbuck. No. 969,215; Sept. 6; Sp. p. 155; Gaz. vol. 158; p. 25.
Screw, Jack-. E. M. Burney. No. 979,424; Dec. 27; Sp. p. 4326; Gaz. vol. 161; p. 767.
Screw-joint outlet, Lead-calked. J. Douglas. No. 956,314; Apr. 26; Sp. p. 5705; Gaz. vol. 153; p. 993.
Screw-lock. J. P. Hesse. No. 948,326; Feb. 8; Sp. p. 1137; Gaz. vol. 151; p. 209.
Screw-lock. C. B. Burrows. No. 964,850; July 19; Sp. p. 4047; Gaz. vol. 156; p. 674.
Screw-machine. J. S. Broughton. No. 945,486; Jan. 4; Sp. p. 1023; Gaz. vol. 150; p. 160.
Screw-machine. G. T. Warwick. No. 959,825; May 31; Sp. p. 7340; Gaz. vol. 154; p. 1244.
Screw-machines, &c., Stock-stop for automatic. C. B. Atwood. No. 956,874; May 3; Sp. p. 811; Gaz. vol. 154; p. 129.
Screw mechanism, Feed-. L. C. Bayles. No. 959,911; May 31; Sp. p. 7541; Gaz. vol. 154; p. 1274.
Screw-seat. C. J. Anderson. No. 945,737; Jan. 11; Sp. p. 1613; Gaz. vol. 150; p. 273.
Screw-threads upon screws, Machine for automatically cutting or forming. W. Avery. No. 963,976; July 12; Sp. p. 2106; Gaz. vol. 156; p. 344.
Screw-threads upon screws, Machine for automatically cutting or forming. W. Avery. No. 963,977; July 12; Sp. p. 2110; Gaz. vol. 156; p. 345.
Screw-threads upon screws, Machine for cutting. W. Avery. No. 948,200; Feb. 1; Sp. p. 854; Gaz. vol. 151; p. 140.
Screw, Work-bench. W. H. Kirkpatrick. No. 978,900; Dec. 20; Sp. p. 3176; Gaz. vol. 161; p. 563.
Screws, Adjusting means for feed-. P. Shampou and I. Donahue. No. 959,810; May 31; Sp. p. 7313; Gaz. vol. 154; p. 1239.
Screws, Guard for set-. W. H. Ackermann. No. 945,834; Jan. 11; Sp. p. 1852; Gaz. vol. 150; p. 309.
Screws, Guard for set-. J. Parr. No. 949,087; Feb. 15; Sp. p. 2754; Gaz. vol. 151; p. 489.
Screws, Machine for cutting threads on wood-. O. Kirschke. No. 977,527; Dec. 6; Sp. p. 256; Gaz. vol. 161; p. 37.

Screws, Manufacture of. W. G. Allen. No. 960,244; June 7; Sp. p. 2; Gaz. vol. 155; p. 3.
Screwed connection. G. Müller. No. 972,211; Oct. 11; Sp. p. 1521; Gaz. vol. 159; p. 271.
Scriber, Curve-. I. Kinney. No. 963,445; July 5; Sp. p. 968; Gaz. vol. 156; p. 145.
Scriber, Follow-board. W. H. Sechler. No. 967,448; Aug. 16; Sp. p. 3448; Gaz. vol. 157; p. 594.
Scrubber, mop, and wringer, Combined. J. C. Schweizer. No. 949,664; Feb. 15; Sp. p. 3915; Gaz. vol. 151; p. 682.
Scrubbing device. J. P. Raymond and C. E. Baker. No. 954,541; Apr. 12; Sp. p. 1803; Gaz. vol. 153; p. 324.
Scrubbing-machine. G. Jaciuk. No. 957,162; May 3; Sp. p. 1414; Gaz. vol. 154; p. 226.
Scrubbing-machine. J. G. Webb. No. 957,828; May 10; Sp. p. 2803; Gaz. vol. 154; p. 482.
Scrubbing-machine. A. C. Andrews. No. 967,301; Aug. 16; Sp. p. 3142; Gaz. vol. 157; p. 544.
Scrubbing-machine. H. Brown. No. 969,032; Aug. 30; Sp. p. 6790; Gaz. vol. 157; p. 1183.
Scrubbing-machine. A. Leigh. No. 979,773; Dec. 27; Sp. p. 5090; Gaz. vol. 161; p. 887.
Scrubbing machine, Floor-. O. A. Ness. No. 966,230; Aug. 2; Sp. p. 832; Gaz. vol. 157; p. 132.
Scruff and dross, Reduction of. R. S. Wile. No. 947,723; Jan. 25; Sp. p. 6023; Gaz. vol. 150; p. 1003.
Sculptures, Apparatus for producing. G. Erdbrügger. No. 972,173; Oct. 11; Sp. p. 1443; Gaz. vol. 159; p. 258.
Sculptures, Producing. G. Erdbruegger. No. 972,174; Oct. 11; Sp. p. 1443; Gaz. vol. 159; p. 258.
Scuttle. G. A. Nelson. No. 975,983; Nov. 15; Sp. p. 4165; Gaz. vol. 160; p. 705.
Scythe. V. P. Herbold. No. 962,638; June 28; Sp. p. 5074; Gaz. vol. 155; p. 887.
Scythe-snath fastener. M. W. Hunsaker. No. 970,338; Sept. 13; Sp. p. 2548; Gaz. vol. 158; p. 430.
Sea power-generator. R. M. Mobius. No. 962,651; June 28; Sp. p. 5098; Gaz. vol. 155; p. 892.
Sea-wall or wharf construction. J. E. Kjilberg. No. 969,706; Sept. 6; Sp. p. 1165; Gaz. vol. 158; p. 189.
Seal. H. E. Irwin. No. 946,225; Jan. 11; Sp. p. 2666; Gaz. vol. 150; p. 444.
Seal. A. B. Gardella. No. 952,035; Mar. 15; Sp. p. 3202; Gaz. vol. 152; p. 576.
Seal. J. F. Crudginton. No. 961,069; June 7; Sp. p. 1666; Gaz. vol. 155; p. 279.
Seal. J. W. Aylsworth. No. 961,333; June 14; Sp. p. 2258; Gaz. vol. 155; p. 399.
Seal. R. C. Hoyer. No. 966,749; Aug. 9; Sp. p. 1993; Gaz. vol. 157; p. 332.
Seal. F. Egge. No. 976,349; Nov. 22; Sp. p. 5025; Gaz. vol. 160; p. 853.
Seal and knot-protector. M. Dessauer and S. Baruch. No. 967,002; Aug. 9; Sp. p. 2522; Gaz. vol. 157; p. 415.
Seal, Bottle-. J. V. Griffin. No. 962,022; June 21; Sp. p. 3705; Gaz. vol. 155; p. 651.
Seal, Bottle and jar. L. G. Steininger and A. A. Walrath. No. 954,897; Apr. 12; Sp. p. 2646; Gaz. vol. 153; p. 448.
Seal, Box-. E. J. Brooks. No. 954,250; Apr. 5; Sp. p. 1178; Gaz. vol. 153; p. 197.
Seal, Car-. W. V. Goodnow. No. 946,997; Jan. 18; Sp. p. 4446; Gaz. vol. 150; p. 732.
Seal, Car-. C. E. Fox. No. 950,151; Feb. 22; Sp. p. 5030; Gaz. vol. 151; p. 885.
Seal, Car-. E. C. Yeoman. No. 950,686; Mar. 1; Sp. p. 474; Gaz. vol. 152; p. 76.
Seal, Car-. E. G. Gebauer. No. 952,801; Mar. 22; Sp. p. 4801; Gaz. vol. 152; p. 864.
Seal, Car-. S. F. Estell. No. 955,638; Apr. 19; Sp. p. 4200; Gaz. vol. 153; p. 730.
Seal, Car-. E. E. Fairchild and F. E. Clark. No. 961,223; June 14; Sp. p. 1995; Gaz. vol. 155; p. 360.
Seal, Car-. W. R. Morse. No. 965,924; Aug. 2; Sp. p. 159; Gaz. vol. 157; p. 27.
Seal, Car-. F. L. Shadley. No. 972,477; Oct. 11; Sp. p. 2085; Gaz. vol. 159; p. 362.
Seal, Car-door. W. Reichert. No. 945,804; Jan. 11; Sp. p. 1766; Gaz. vol. 150; p. 296.
Seal, Cording-. E. J. Brooks. No. 961,931; June 21; Sp. p. 3513; Gaz. vol. 155; p. 621.
Seal, Dating nail-. E. J. Brooks. No. 954,924; Apr. 12; Sp. p. 2703; Gaz. vol. 153; p. 457.
Seal, Envelop-. F. Shannon. No. 971,316; Sept. 27; Sp. p. 4613; Gaz. vol. 158; p. 808.
Seal, Envelop-. E. A. Speer. No. 973,987; Oct. 25; Sp. p. 5391; Gaz. vol. 159; p. 936.
Seal-fastening. T. E. Murray. No. 945,854; Jan. 11; Sp. p. 1900; Gaz. vol. 150; p. 315.
Seal-fastening. T. E. Murray. No. 945,855; Jan. 11; Sp. p. 1901; Gaz. vol. 150; p. 315.
Seal for boxes. S. Whitehall. No. 974,940; Nov. 8; Sp. p. 1960; Gaz. vol. 160; p. 323.
Seal for car-doors, shipping-receptacles, &c. J. J. A. Miller. No. 970,529; Sept. 20; Sp. p. 2958; Gaz. vol. 158; p. 515.
Seal for cocks, Sheet-metal. J. D. Renick and K. C. Krick. No. 971,639; Oct. 4; Sp. p. 273; Gaz. vol. 159; p. 49.
Seal for holding knots, Metallic. I. S. Brassington. No. 946,486; Jan. 11; Sp. p. 3329; Gaz. vol. 150; p. 535.
Seal for pipe connections, Sheet-metal. J. D. Renick and K. C. Krick. No. 969,981; Sept. 13; Sp. p. 1811; Gaz. vol. 158; p. 308.
Seal, Freight-car. G. B. Edgar, Sr. No. 979,452; Dec. 27; Sp. p. 4390; Gaz. vol. 161; p. 777.
Seal, Jar-. C. R. Keeran. No. 976,659; Nov. 22; Sp. p. 5687; Gaz. vol. 160; p. 962.
Seal, Jar vacuum-. C. R. Keeran. No. 973,512; Oct. 25; Sp. p. 4410; Gaz. vol. 159; p. 770.
Seal-lock. J. T. Hunter. No. 947,528; Jan. 25; Sp. p. 5642; Gaz. vol. 150; p. 938.
Seal-lock. G. H. Barker. No. 954,910; Apr. 12; Sp. p. 2675; Gaz. vol. 153; p. 452.
Seal-lock. A. A. de A. de Castro. No. 956,480; Apr. 26; Sp. p. 6059; Gaz. vol. 153; p. 1050.
Seal-lock. L. J. Campbell. No. 960,271; June 7; Sp. p. 64; Gaz. vol. 155; p. 14.
Seal-lock. C. W. Gill No. 962,827; June 28; Sp. p. 5462; Gaz. vol. 155; p. 954.
Seal-lock. R. P. Reid. No. 966,122; Aug. 2; Sp. p. 585; Gaz. vol. 157; p. 96.
Seal-lock. C. A. Simmons. No. 971,571; Oct. 4; Sp. p. 132; Gaz. vol. 159; p. 25.
Seal-lock. F. C. Buschek. No. 978,690; Dec. 13; Sp. p. 2753; Gaz. vol. 161; p. 469.
Seal-lock for boxes. F. B. Williams. No. 949,342; Feb. 15; Sp. p. 3283; Gaz. vol. 151; p. 576.
Seal-lock for boxes. F. B. Williams. No. 949,343; Feb. 15; Sp. p. 3284; Gaz. vol. 151; p. 576.
Seal-lock for receptacles. C. H. Johnson. No. 948,783; Feb. 8; Sp. p. 2135; Gaz. vol. 151; p. 363.
Seal, Mail-bag. E. H. Humphrey. No. 968,665; Aug. 30; Sp. p. 6030; Gaz. vol. 157; p. 1059.
Seal, Metal. S. Stroh. No. 959,401; May 24; Sp. p. 6429; Gaz. vol. 154; p. 1075.
Seal or packing, Liquid. K. Ahlquist. No. 945,900; Jan. 11; Sp. p. 1999; Gaz. vol. 150; p. 332.
Seal-press. J. J. Beale. No. 953,507; Mar. 29; Sp. p. 6305; Gaz. vol. 152; p. 1130.
Seal, Protective. T. S. Wood. No. 972,971; Oct. 18; Sp. p. 3228; Gaz. vol. 159; p. 561.
Seal, Snap-. E. J. Brooks. No. 956,931; May 3; Sp. p. 932; Gaz. vol. 154; p. 148.
Seal, Snap-. E. J. Brooks. No. 960,805; June 7; Sp. p. 1150; Gaz. vol. 155; p. 191.
Seal, Water. H. H. Dow. No. 957,314; May 10; Sp. p. 1772; Gaz. vol. 154; p. 309.
Seal, Water. H. H. Dow. No. 961,216; June 14; Sp. p. 1982; Gaz. vol. 155; p. 358.
Seals to packing-cases, Means for attaching. S. Stroh. No. 977,342; Nov. 29; Sp. p. 7183; Gaz. vol. 160; p. 1221.
Sealer, Fruit-jar. W. G. Hall. No. 957,952; May 17; Sp. p. 3107; Gaz. vol. 154; p. 555.
Sealing and stamp-affixing machine, Envelop-. E. J. Brasseur. No. 945,744; Jan. 11; Sp. p. 1627; Gaz. vol. 150; p. 275.
Sealing and stamp-affixing machine, Envelop-. E. J. Brasseur. No. 945,838; Jan. 11; Sp. p. 1858; Gaz. vol. 150; p. 310.
Sealing and stamping envelops, Machine for. F. O. Madsen. No. 948,179; Feb. 1; Sp. p. 807; Gaz. vol. 151; p. 134.
Sealing and stamping envelops, &c., Machine for. L. M. Nielsen. No. 964,448; July 12; Sp. p. 3039; Gaz. vol. 156; p. 502.
Sealing and stamping machine, Envelop. E. J. Abbott. No. 959,283; May 24; Sp. p. 6206; Gaz. vol. 154; p. 1037.
Sealing and stamping machine, Envelop. J. J. Schermack. No. 961,465; June 14; Sp. p. 2514; Gaz. vol. 155; p. 442.
Sealing apparatus, Bottle-. G. M. C. Nielsen. No. 965,535; July 26; Sp. p. 5496; Gaz. vol. 156; p. 937.
Sealing apparatus, Envelop-. E. J. Brasseur. No. 945,743; Jan. 11; Sp. p. 1623; Gaz. vol. 150; p. 275.
Sealing bottles. C. N. Tevander and A. Manierre. No. 947,502; Jan. 25; Sp. p. 5594; Gaz. vol. 150; p. 929.
Sealing bottles. B. Adriance and A. Calleson. No. 965,498; July 26; Sp. p. 5391; Gaz. vol. 156; p. 922.
Sealing bottles and other vessels. E. P. Wetmore. No. 954,406; Apr. 5; Sp. p. 1499; Gaz. vol. 153; p. 249.
Sealing-cap controller. J. M. Hicks. No. 949,478; Feb. 15; Sp. p. 3565; Gaz. vol. 151; p. 621.
Sealing-cap for bottles. E. P. Wetmore. No. 954,405; Apr. 5; Sp. p. 1497; Gaz. vol. 153; p. 249.
Sealing caps, Merchantable package of jar-. H. A. Spiller. No. 976,516; Nov. 22; Sp. p. 5373; Gaz. vol. 160; p. 911.
Sealing-caps to vessels, Applying. J. M. Hicks. No. 949,477; Feb. 15; Sp. p. 3563; Gaz. vol. 151; p. 621.
Sealing-caps to vessels, Implement for applying. J. A. Hicks. No. 953,017; Mar. 22; Sp. p. 5223; Gaz. vol. 152; p. 936.
Sealing composition. J. C. Taliaferro. No. 965,765; July 26; Sp. p. 5981; Gaz. vol. 156; p. 1016.
Sealing containers. J. S. Ferguson. No. 966,537; Aug. 9; Sp. p. 1517; Gaz. vol. 157; p. 259.
Sealing device. L. B. Edgar. No. 954,271; Apr. 5; Sp. p. 1218; Gaz. vol. 153; p. 203.
Sealing device, Can-. A. A. Rickert. No. 973,812; Oct. 25; Sp. p. 5031; Gaz. vol. 159; p. 874.

Alphabetical list of inventions—Continued.

Sealing device, Car-. E. L. Pitts. No. 972,716; Oct. 11; Sp. p. 2626; Gaz. vol. 159; p. 446.
Sealing device, Carton-. W. S. Scales. No. 954,704; Apr. 12; Sp. p. 2163; Gaz. vol. 153; p. 378.
Sealing device, Electric. J. G. Wallmann. No. 979,905; Dec. 27; Sp. p. 5393; Gaz. vol. 161; p. 932.
Sealing device for bottles. O. Cardell and S. T. Bergström. No. 946,334; Jan. 11; Sp. p. 2912; Gaz. vol. 150; p. 482.
Sealing device for electric meters. W. N. Alexander. No. 958,686; May 17; Sp. p. 4924; Gaz. vol. 154; p. 808.
Sealing device for newspapers and the like. F. H. Beals. No. 965,362; July 26; Sp. p. 5108; Gaz. vol. 156; p. 876.
Sealing device, Jar-. J. L. Rollins. No. 973,214; Oct. 18; Sp. p. 3780; Gaz. vol. 159; p. 646.
Sealing machine, Bottle-. E. J. Godman and W. H. Niemeyer. No. 961,603; June 14; Sp. p. 2819; Gaz. vol. 155; p. 488.
Sealing machine, Bottle-. P. Conrad. No. 967,614; Aug. 16; Sp. p. 3788; Gaz. vol. 157; p. 651.
Sealing machine, Carton-. G. A. Cullom. No. 961,845; June 21; Sp. p. 3330; Gaz. vol. 155; p. 592.
Sealing machine, Carton-. W. A. Joplin. No. 977,097; Nov. 29; Sp. p. 6672; Gaz. vol. 160; p. 1136.
Sealing machine, Envelop-. H. J. Reynolds. No. 945,419; Jan. 4; Sp. p. 898; Gaz. vol. 150; p. 140.
Sealing machine, Envelop-. E. J. Brasseur. No. 945,745; Jan. 11; Sp. p. 1638; Gaz. vol. 150; p. 275.
Sealing machine, Envelop-. I. Robbins. No. 946,071; Jan. 11; Sp. p. 2346; Gaz. vol. 150; p. 390.
Sealing machine, Envelop-. H. K. Harris. No. 957,555; May. 10; Sp. p. 2260; Gaz. vol. 154; p. 391.
Sealing machine, Envelop-. H. S. Gibson. No. 961,117; June 14; Sp. p. 1772; Gaz. vol. 155; p. 322.
Sealing machine for pasteboard cartons, Bottom-flap-. F. B. Martin. No. 956,392; Apr. 26; Sp. p. 5861; Gaz. vol. 153; p. 1019.
Sealing machine, Tube-. T. A. Edison. No. 956,317; Apr. 26; Sp. p. 5716; Gaz. vol. 153; p. 995.
Sealing machines, Conveyer for carton-. H. L. Johnson. No. 976,264; Nov. 22; Sp. p. 4835; Gaz. vol. 160; p. 826.
Sealing means for registering devices. F. J. Frederick. No. 956,490; Apr. 26; Sp. p. 6089; Gaz. vol. 153; p. 1054.
Sealing mechanism, Bottle-. J. Hermann. No. 949,678; Feb. 15; Sp. p. 3938; Gaz. vol. 151; p. 686.
Sealing mechanism, Bottle-. P. Conrad. No. 963,210; July 5; Sp. p. 474; Gaz. vol. 156; p. 65.
Sealing receptacles, Apparatus for. E. Goltstein. No. 945,516; Jan. 4; Sp. p. 1102; Gaz. vol. 150; p. 170.
Sealing-strap, Shipping-package. R. C. Batchelor. No. 972,594; Oct. 11; Sp. p. 2373; Gaz. vol. 159; p. 405.
Sealing tins, Apparatus for. A. Wilzin. No. 945,357; Jan. 4; Sp. p. 765; Gaz. vol. 150; p. 118.
Sealing-tool. A. E. Groom, D. S. McFall, and W. J. Noah. No. 975,857; Nov. 15; Sp. p. 3924; Gaz. vol. 160; p. 662.
Seaming can-heads to can-bodies. J. Höiland and K. J. Halleland. No. 976,739; Nov. 22; Sp. p. 5826; Gaz. vol. 160; p. 987.
Seaming machine, Double-. O. Ostlin. No. 968,680; Aug. 30; Sp. p. 6092; Gaz. vol. 157; p. 1065.
Seaming machine, Double-. F. Rudolphi. No. 975,574; Nov. 15; Sp. p. 3341; Gaz. vol. 160; p. 567.
Seaming sheet-metal cans and opening device for the same. E. Bjelland. No. 949,210; Feb. 15; Sp. p. 2993; Gaz. vol. 151; p. 531.
Search-light controller. F. E. Harris. No. 953,332; Mar. 29; Sp. p. 5918; Gaz. vol. 152; p. 1068.
Search-light, projector, and the like. H. Viertel. No. 968,821; Aug. 30; Sp. p. 6369; Gaz. vol. 157; p. 1111.
Search-light, projector, and the like. H. Viertel. No. 969,814; Sept. 13; Sp. p. 1457; Gaz. vol. 158; p. 252.
Seasoning and making the same. E. D. Houston. No. 970,712; Sept. 20; Sp. p. 3375; Gaz. vol. 158; p. 579.
Seat: *See* Agricultural-implement seat; Bicycle-seat; Car-seat; Carriage-seat; Cement seat; Chair-seat; Chair and the like seat; Chair auxiliary seat; Closet-seat; Engine-seat; Extensible seat; Folding seat; Knockdown seat; Metal seat; Nursery-seat; School-seat; Screw-seat; Spring-seat; Sulky-seat; Toilet-seat; Vehicle-seat; Water-closet seat; Window-seat.
Seat and walking-stick, Combined. W. Schocke. No. 954,473; Apr. 12; Sp. p. 1658; Gaz. vol. 153; p. 300.
Seat-cover, Sanitary. C. L. Dreher. No. 974,865; Nov. 8; Sp. p. 1775; Gaz. vol. 160; p. 296.
Seat-cushion. F. W. Buch, Jr. No. 949,461; Feb. 15; Sp. p. 3522; Gaz. vol. 151; p. 615.
Seat-frame. C. A. Lindström. No. 947,342; Jan. 25; Sp. p. 5208; Gaz. vol. 150; p. 877.
Seat-frame. H. S. Hale. No. 971,371; Sept. 27; Sp. p. 4727; Gaz. vol. 158; p. 826.
Seat post, Spring-. W. S. Harley. No. 979,483; Dec. 27; Sp. p. 4452; Gaz. vol. 161; p. 787.
Seat protector, Toilet-. G. E. W. Miller. No. 963,792; July 12; Sp. p. 1706; Gaz. vol. 156; p. 284.
Seat structure, Spring-. F. O'Brien. No. 954,331; Apr. 5; Sp. p. 1357; Gaz. vol. 153; p. 224.
Seat structure, Spring-. L. A. Young. No. 970,775; Sept. 20; Sp. p. 3518; Gaz. vol. 158; p. 602.
Seat-support. R. C. Stewart. No. 955,220; Apr. 19; Sp. p. 3290; Gaz. vol. 153; p. 589.

Seats, Detachable sanitary covering for toilet-. M. R. Slough. No. 972,269; Oct. 11; Sp. p. 1654; Gaz. vol. 159; p. 290.
Seating. W. Franks. No. 947,493; Jan. 25; Sp. p. 5575; Gaz. vol. 150; p. 926.
Seaweeds for food, Preparing. T. C. Frye and C. E. Magnusson. No. 965,382; July 26; Sp. p. 5141; Gaz. vol. 156; p. 882.
Secondary battery. W. Morrison. No. 945,186; Jan. 4; Sp. p. 369; Gaz. vol. 150; p. 62.
Secondary battery. W. Morrison. No. 945,243; Jan. 4; Sp. p. 493; Gaz. vol. 150; p. 81.
Secondary battery. H. P. Schreiber. No. 962,263; June 21; Sp. p. 4249; Gaz. vol. 155; p. 735.
Secondary battery. G. J. Johnson. No. 969,876; Sept. 13; Sp. p. 1589; Gaz. vol. 158; p. 273.
Secondary battery. W. Morrison. (Reissue.) No. 13,174; Nov. 22; Sp. p. 6047; Gaz. vol. 160; p. 1023.
Secondary or storage battery. C. H. Clare. No. 949,146; Feb. 15; Sp. p. 2879; Gaz. vol. 151; p. 509.
Secondary or storage battery. B. Ford. No. 949,225; Feb. 15; Sp. p. 3016; Gaz. vol. 151; p. 536.
Section-breaker. J. B. and H. E. Howe. No. 949,537; Feb. 15; Sp. p. 3690; Gaz. vol. 151; p. 641.
Section-breaker. H. E. Howe. No. 950,922; Mar. 1; Sp. p. 960; Gaz. vol. 152; p. 154.
Sectional boiler. J. B. Bernhard. No. 979,736; Dec. 27; Sp. p. 5011; Gaz. vol. 161; p. 875.
Sectional boiler and furnace, Combined. M. C. Hawley. No. 950,915; Mar. 1; Sp. p. 949; Gaz. vol. 152; p. 152.
Sectional boiler, Double. J. B. Bernhard. No. 979,738; Dec. 27; Sp. p. 5015; Gaz. vol. 161; p. 876.
Sectional bolt. E. Fongeallaz. No. 948,559; Feb. 8; Sp. p. 1647; Gaz. vol. 151; p. 287.
Sectional die. W. J. MacFarland and W. G. Eaton. No. 955,277; Apr. 19; Sp. p. 3412; Gaz. vol. 153; p. 606.
Sectional form and truss-support. G. H. Sherwood. No. 949,093; Feb. 15; Sp. p. 2762; Gaz. vol. 151; p. 491.
Sectional mold. B. M. Bangs. No. 959,103; May 24; Sp. p. 5838; Gaz. vol. 154; p. 978.
Securing-washer. J. H. Holmes. No. 955,160; Apr. 19; Sp. p. 3156; Gaz. vol. 153; p. 567.
Seed-and fertilizer distributer. J. J. Brady. No. 960,261; June 7; Sp. p. 36; Gaz. vol. 155; p. 10.
Seed, Apparatus for removing fiber from cotton-. G. L. Blanchard. No. 973,159; Oct. 18; Sp. p. 3638; Gaz. vol. 159; p. 626.
Seed-case. A. E. McKenzie. No. 970,454; Sept. 13; Sp. p. 2780; Gaz. vol. 158; p. 467.
Seed cleaner and huller, Cotton-. W. W. Vanlandingham. No. 949,607; Feb. 15; Sp. p. 3816; Gaz. vol. 151; p. 665.
Seed conveyer, Pneumatic cotton-. B. W. and B. F. Tilley. No. 957,126; May 3; Sp. p. 1332; Gaz. vol. 154; p. 213.
Seed delinter, Cotton-. P. F. King. No. 974,574; Nov. 1; Sp. p. 1147; Gaz. vol. 160; p. 173.
Seed delinter, Cotton-. P. A. Fitzhugh. No. 979,066; Dec. 20; Sp. p. 3553; Gaz. vol. 161; p. 621.
Seed-delinting machine, Cotton-. W. E. Worth. No. 958,456; May 17; Sp. p. 4482; Gaz. vol. 154; p. 733.
Seed-dropping mechanism. J. Streitz. No. 969,918; Sept. 13; Sp. p. 1675; Gaz. vol. 158; p. 288.
Seed-extracting machine. H. Nichols. No. 960,577; June 7; Sp. p. 693; Gaz. vol. 155; p. 114.
Seed-germinator. E. B. and G. P. Balcom. No. 978,812; Dec. 13; Sp. p. 2990; Gaz. vol. 161; p. 507.
Seed grader, cleaner, and purifier, Combined. C. B. Benson. No. 965,683; July 26; Sp. p. 5815; Gaz. vol. 156; p. 988.
Seed-hopper. P. C. Mitchell. No. 971,917; Oct. 4; Sp. p. 873; Gaz. vol. 159; p. 150.
Seed huller, Cotton-. W. E. Jones. No. 955,463; Apr. 19; Sp. p. 3814; Gaz. vol. 153; p. 670.
Seed-huller, Cotton-oil-mill. J. G. Kappler and J. Gaines. No. 948,508; Feb. 8; Sp. p. 1536; Gaz. vol. 151; p. 271.
Seed huller, Differential-speed-roller cotton-. T. McDonald. No. 951,653; Mar. 8; Sp. p. 2419; Gaz. vol. 152; p. 418.
Seed-hulling machine, Cotton-. J. McFarlane. No. 955,532; Apr. 19; Sp. p. 3952; Gaz. vol. 153; p. 694.
Seed linter and condenser, Cotton-. F. C. Gammons. No. 948,274; Feb. 1; Sp. p. 1008; Gaz. vol. 151; p. 165.
Seed linter, Cotton-. H. E. Sessions. No. 962,722; June 28; Sp. p. 5255; Gaz. vol. 155; p. 917.
Seed packer, Cotton-. J. Broussard. No. 951,051; Mar. 1; Sp. p. 1191; Gaz. vol. 152; p. 195.
Seed separator and cleaner, Pneumatic cotton-. T. McDonald. No. 972,212; Oct. 11; Sp. p. 1523; Gaz. vol. 159; p. 271.
Seed shipping and display case. B. D. Hawkins. No. 969,056; Aug. 30; Sp. p. 6837; Gaz. vol. 157; p. 1191.
Seed-tester. H. L. Lapham. No. 979,175; Dec. 20; Sp. p. 3833; Gaz. vol. 161; p. 663.
Seeds to separate unripe from ripe seeds, Treating cacao-. M. F. Kässmodel. No. 974,393; Nov. 1; Sp. p. 704; Gaz. vol. 160; p. 107.
Seeder. J. L. Hicks. No. 951,073; Mar. 1; Sp. p. 1234; Gaz. vol. 152; p. 203.
Seeder. F. G. Stitchman. No. 953,929; Apr. 5; Sp. p. 488; Gaz. vol. 153; p. 89.
Seeder. C. J. Stein. No. 971,090; Sept. 27; Sp. p. 4160; Gaz. vol. 158; p. 734.

Seeder. J. M. Grantham. No. 971,990; Oct. 4; Sp. p. 1065; Gaz. vol. 159; p. 178.
Seeder. E. B. Fitzgerald. No. 972,178; Oct. 11; Sp. p. 1451; Gaz. vol. 159; p. 259.
Seeder attachment. H. Brown. No. 947,658; Jan. 25; Sp. p. 5915; Gaz. vol. 150; p. 982.
Seeder, Disk. C. J. Nelson. No. 960,576; June 7; Sp. p. 693; Gaz. vol. 155; p. 114.
Seeder, Force-feed. T. B. Rowell. No. 956,545; May 3; Sp. p. 84; Gaz. vol. 154; p. 15.
Seeder, Force-feed. J. H. Bauer. No. 968,526; Aug. 30; Sp. p. 5730; Gaz. vol. 157; p. 1010.
Seeder, Hand-. J. F. Rittenhouse. No. 963,067; July 5; Sp. p. 79; Gaz. vol. 156 p. 15.
Seeding-machine. F. E. Davis. No. 964,761; July 19; Sp. p. 3860; Gaz. vol. 156; p. 643.
Seeding-machine boot. G. F. Danielson. No. 953,902; Apr. 5; Sp. p. 433; Gaz. vol. 153; p. 79.
Seeding-machine gearing. D. A. Moon and E. Christman. No. 964,802; July 19; Sp. p. 3952; Gaz. vol. 156; p. 657.
Seesaw. J. D. and O. H. Miller. No. 951,540; Mar. 8; Sp. p. 2190; Gaz. vol. 152; p. 380.
Selecting device. F. G. Agrell. No. 979,404; Dec. 27; Sp. p. 4289; Gaz. vol. 161; p. 761.
Selector. J. L. McQuarrie and E. B. Craft. No. 949,836; Feb. 22; Sp. p. 4298; Gaz. vol. 151; p. 775.
Selector-switch. E. B. Craft. No. 973,762; Oct. 25; Sp. p. 4927; Gaz. vol. 159; p. 857.
Self-cleaning comb. J. Haelebjian. No. 973,039; Oct. 18; Sp. p. 3380; Gaz. vol. 159; p. 585.
Self-cleaning rake. A. S. Hess. No. 974,268; Nov. 1; Sp. p. 422; Gaz. vol. 160; p. 63.
Self-closing gate. J. W. Martin. No. 964,801; July 19; Sp. p. 3950; Gaz. vol. 156; p. 656.
Self-cushioning wheel. G. H. Langton. No. 945,468; Jan. 4; Sp. p. 989; Gaz. vol. 150; p. 155.
Self-dumping apparatus. J. Scott. No. 961,652; June 14; Sp. p. 2914; Gaz. vol. 155; p. 504.
Self-heating iron. J. Heilbron. No. 974,665; Nov. 1; Sp. p. 1331; Gaz. vol. 160; p. 207.
Self-leveling table. M. Florenz. No. 969,614; Sept. 6; Sp. p. 991; Gaz. vol. 158; p. 158.
Self-locking bolt. W. Pansch and O. G. Bark. No. 976,096; Nov. 15; Sp. p. 4395; Gaz. vol. 160; p. 745.
Self-waiting table. K. J. Olson. No. 958,672; May 17; Sp. p. 4893; Gaz. vol. 154; p. 803.
Semaphore. W. J. McShane. No. 966,350; Aug. 2; Sp. p. 1049; Gaz. vol. 157; p. 169.
Semaphore mechanism. W. K. Howe. No. 962,960; June 28; Sp. p. 5701; Gaz. vol. 155; p. 999.
Separating-bowl, Device for assembling parts of a centrifugal. E. R. Bailey. No. 959,693; May 31; Sp. p. 7057; Gaz. vol. 154; p. 1198.
Separating device. C. P. Bossart. No. 955,843; Apr. 26; Sp. p. 4657; Gaz. vol. 153; p. 829.
Separating heterogeneous substances and detinning scrap. C. J. Reed. No. 971,405; Sept. 27; Sp. p. 4784; Gaz. vol. 158; p. 837.
Separating-machine. H. Hastings. No. 957,332; May 10; Sp. p. 1810; Gaz. vol. 154; p. 315.
Separating mechanism. J. Loufek. No. 951,321; Mar. 8; Sp. p. 1752; Gaz. vol. 152; p. 308.
Separating particles from a fluid stream, Apparatus for. L. N. Morscher. No. 949,041; Feb. 15; Sp. p. 2668; Gaz. vol. 151; p. 475.
Separating process, Electrostatic. W. G. Swart. No. 959,646; May 31; Sp. p. 6959; Gaz. vol. 154; p. 1185.
Separating-screen. G. C. Kidder. No. 951,082; Mar. 1; Sp. p. 1251; Gaz. vol. 152; p. 205.
Separating, washing, and concentrating materials. A. W. H. Lenders. No. 948,512; Feb. 8; Sp. p. 1544; Gaz. vol. 151; p. 273.
Separating, washing, and concentrating materials, Apparatus for. A. W. H. Lenders. No. 948,513; Feb. 8; Sp. p. 1548; Gaz. vol. 151; p. 273.
Separation of constituents, Apparatus for the uninterrupted. F. W. Ilges. No. 968,478; Aug. 23; Sp. p. 5604; Gaz. vol. 157; p. 967.
Separation of ingredients of mixed solid materials. F. S. MacGregor. No. 972,459; Oct. 11; Sp. p. 2035; Gaz. vol. 159; p. 357.
Separation, Process of. H. A. Wentworth. No. 970,002; Sept. 13; Sp. p. 1862; Gaz. vol. 158; p. 317.
Separation, Process of. H. A. Wentworth. No. 980,035; Dec. 27; Sp. p. 5659; Gaz. vol. 161; p. 975.
Separator: *See* Battery-separator; Butter-separator; Centrifugal separator; Coal-separator; Cotton-separator; Cream-separator; Dry separator; Dust-separator; Egg-separator; Electromagnetic separator; Gas-separator; Grain-separator; Liquid-separator; Lubricant-separator; Magnetic separator; Ore-separator; Placer-separator; Pneumatic separator; Pneumatic-carrier separator; Potato-separator; Pulp-stock separator; Sand and gravel separator; Seed-separator; Slime-separator; Smoke-separator; Spiral separator; Steam-separator; Turpentine-separator; Vine-separator.
Separator. W. H. Rice. No. 946,518; Jan. 11; Sp. p. 3408; Gaz. vol. 150; p. 546.
Separator. J. Muchka. No. 947,393; Jan. 25; Sp. p. 5313; Gaz. vol. 150; p. 893.
Separator. J. Pollock. No. 949,247; Feb. 15; Sp. p. 3065; Gaz. vol. 151; p. 543.
Separator. A. A. Shippee. No. 950,409; Feb. 22; Sp. p. 5546; Gaz. vol. 151; p. 972.
Separator. J. K. White. No. 951,264; Mar. 8; Sp. p. 1613; Gaz. vol. 152; p. 288.
Separator. A. J. Meyer. No. 952,459; Mar. 22; Sp. p. 4029; Gaz. vol. 152; p. 746.
Separator. A. R. Rogers. No. 953,398; Mar. 29; Sp. p. 6077; Gaz. vol. 152; p. 1092.
Separator. M. McCoy. No. 956,776; May 3; Sp. p. 593; Gaz. vol. 154; p. 94.
Separator. J. Muchka. No. 960,374; June 7; Sp. p. 278; Gaz. vol. 155; p. 47.
Separator. W. L. Snyder. No. 960,725; June 7; Sp. p. 986; Gaz. vol. 155; p. 164.
Separator. M. S. Jones. No. 960,947; June 7; Sp. p. 1410; Gaz. vol. 155; p. 238.
Separator. W. H. Bradley. No. 962,117; June 21; Sp. p. 3933; Gaz. vol. 155; p. 685.
Separator. W. Grummel. No. 964,244; July 12; Sp. p. 2646; Gaz. vol. 156; p. 435.
Separator. C. C. Inman. No. 968,242; Aug. 23; Sp. p. 5143; Gaz. vol. 157; p. 885.
Separator. J. Mensen. No. 978,920; Dec. 20; Sp. p. 3216; Gaz. vol. 161; p. 571.
Separator and classifier. E. Major. No. 973,363; Oct. 18; Sp. p. 4070; Gaz. vol. 159; p. 697.
Separator and stacker. E. J. Vraalstad. No. 954,365; Apr. 5; Sp. p. 1419; Gaz. vol. 153; p. 236.
Separator and stacker. E. J. Vraalstad. (Reissue.) No. 13,156; Oct. 11; Sp. p. 2772; Gaz. vol. 159; p. 472.
Separator feed apparatus, Spiral-. F. Pardee. No. 977,038; Nov. 29; Sp. p. 6543; Gaz. vol. 160; p. 1117.
Separator feed device, Centrifugal-. C. H. Hackett and T. W. Morgan. No. 967,372; Aug. 16; Sp. p. 3287; Gaz. vol. 157; p. 569.
Separator for lump material. A. Langerfeld. No. 977,956; Dec. 6; Sp. p. 1155; Gaz. vol. 161; p. 186.
Separator liner, Centrifugal-. D. T. Sharples. No. 949,848; Feb. 22; Sp. p. 4325; Gaz. vol. 151; p. 779.
Separator liner, Centrifugal-. J. and A. Persoons. No. 969,399; Sept. 6; Sp. p. 532; Gaz. vol. 158; p. 85.
Separator plate, Spiral-. F. Pardee. No. 977,033; Nov. 29; Sp. p. 6532; Gaz. vol. 160; p. 1115.
Separator plate, Spiral-. F. Pardee. No. 977,034; Nov. 29; Sp. p. 6534; Gaz. vol. 160; p. 1115.
Separator plate, Spiral-. F. Pardee. No. 977,035; Nov. 29; Sp. p. 6536; Gaz. vol. 160; p. 1116.
Separators, Retarder for materials in spiral. F. Pardee. No. 977,036; Nov. 29; Sp. p. 6537; Gaz. vol. 160; p. 1116.
Separators, Subdivider for the bowls of centrifugal liquid-. P. L. Kimball. No. 947,217; Jan. 18; Sp. p. 4868; Gaz. vol. 150; p. 803.
Service-box, Extension. F. M. Jacob. No. 954,437; Apr. 12; Sp. p. 1560; Gaz. vol. 153; p. 287.
Service-meter system. A. H. Weiss. No. 972,962; Oct. 18; Sp. p. 3209; Gaz. vol. 159; p. 558.
Service-meter system. G. A. Joy. No. 976,184; Nov. 22; Sp. p. 4622; Gaz. vol. 160; p. 796.
Serving-rack. E. Haller. No. 953,007; Mar. 22; Sp. p. 5205; Gaz. vol. 152; p. 933.
Serving-table and towel-rack, Combined. W. F. Bernstein. No. 967,600; Aug. 16; Sp. p. 3763; Gaz. vol. 157; p. 646.
Serving-table for restaurants. A. C. Fast. No. 978,572; Dec. 13; Sp. p. 2513; Gaz. vol. 161; p. 429.
Settee. S. F. Balentine. No. 971,342; Sept. 27; Sp. p. 4669; Gaz. vol. 158; p. 816.
Setting. C. Dean. No. 974,862; Nov. 8; Sp. p. 1771; Gaz. vol. 160; p. 295.
Setting-up machine. J. H. Dodds. No. 947,174; Jan. 18; Sp. p. 4772; Gaz. vol. 150; p. 787.
Settling-tank. R. S. Lewis and J. H. Moore. No. 973,357; Oct. 18; Sp. p. 4061; Gaz. vol. 159; p. 695.
Sewage and other waters, Apparatus for purification of. L. G. Lautzenhiser and C. P. Chandler. No. 966,025; Aug. 2; Sp. p. 391; Gaz. vol. 157; p. 62.
Sewage, &c., Apparatus for screening. C. Potts. No. 973,697; Oct. 25; Sp. p. 4802; Gaz. vol. 159; p. 835.
Sewage, &c., Automatic discharger for. J. F. Quinn. No. 968,263; Aug. 23; Sp. p. 5181; Gaz. vol. 157; p. 892.
Sewage disposal, Apparatus for. B. J. Ashley. No. 956,665; May 3; Sp. p. 338; Gaz. vol. 154; p. 56.
Sewage disposal by filtration and aeration. J. B. Paul. No. 977,965; Dec. 6; Sp. p. 1186; Gaz. vol. 161; p. 189.
Sewage-disposal plant. M. J. Wiest. No. 962,606; June 28; Sp. p. 5015; Gaz. vol. 155; p. 877.
Sewage-distributer. A. Browning. No. 955,754; Apr. 19; Sp. p. 4457; Gaz. vol. 153; p. 769.
Sewage in sewage plants, Ventilation and aeration of. F. Hamilton. No. 947,333; Jan. 25; Sp. p. 5172; Gaz. vol. 150; p. 873.
Sewage-purification system. C. Potts. No. 955,683; Apr. 19; Sp. p. 4306; Gaz. vol. 153; p. 745.
Sewage, Treating. K. Imhoff. No. 978,889; Dec. 20; Sp. p. 3151; Gaz. vol. 161; p. 560.
Sewer air-inlet box. E. Franklin. No. 977,860; Dec. 6; Sp. p. 959; Gaz. vol. 161; p. 151.
Sewer-cleaning apparatus. J. F. Kuhlman. No. 955,812; Apr. 19; Sp. p. 4565; Gaz. vol. 153; p. 789.

Alphabetical list of inventions—Continued.

Sewer-cleaning apparatus. J. W. Stolkrantz. No. 965,249; July 26; Sp. p. 4849; Gaz. vol. 156; p. 838.
Sewer-cleaning device. M. Harbeck. No. 947,990; Feb. 1; Sp. p. 439; Gaz. vol. 151; p. 71.
Sewer connection. W. E. McCorquodale. No. 974,752; Nov. 1; Sp. p. 1527; Gaz. vol. 160; p. 234.
Sewer-mold. T. E. Clark. No. 948,539; Feb. 8; Sp. p. 1595; Gaz. vol. 151; p. 281.
Sewer-mold. T. E. Clark. No. 948,540; Feb. 8; Sp. p. 1596; Gaz. vol. 151; p. 281.
Sewer-mold. T. E. Clark. (Reissue.) No. 13,106; Apr. 19; Sp. p. 4653; Gaz. vol. 153; p. 804.
Sewer-trap. R. C. Hill. No. 945,534; Jan. 4; Sp. p. 1139; Gaz. vol. 150; p. 176.
Sewer-vent-pipe trap. L. Berwanger. No. 965,861; Aug. 2; Sp. p. 27; Gaz. vol. 157; p. 7.
Sewers and similar structures, Construction of. C. F. Wilson. No. 961,380; June 14; Sp. p. 2343; Gaz. vol. 155; p. 414.
Sewers, Catch-basin for. B. F. Nicholas. No. 965,832; July 26; Sp. p. 6128; Gaz. vol. 156; p. 1039.
Sewing and trimming machine. B. H. Zimmerman and R. Hughes, Jr. (Reissue.) No. 13,182; Dec. 6; Sp. p. 1537; Gaz. vol. 161; p. 249.
Sewing and turning machine, Tube. J. Pelham. No. 978,481; Dec. 13; Sp. p. 2302; Gaz. vol. 161; p. 397.
Sewing buttons to fabrics, Machine for. W. E. Trull. No. 952,087; Mar. 15; Sp. p. 3289; Gaz. vol. 152; p. 593.
Sewing-cabinet. D. Karay. No. 949,485; Feb. 15; Sp. p. 3574; Gaz. vol. 151; p. 623.
Sewing-clamp. G. P. Van Wye. No. 956,869; May 3; Sp. p. 805; Gaz. vol. 154; p. 128.
Sewing corded tucks, Machine attachment for. B. S. Cramer. No. 955,322; Apr. 19; Sp. p. 3508; Gaz. vol. 153; p. 622.
Sewing-machine. W. H. Emery. No. 945,308; Jan. 4; Sp. p. 662; Gaz. vol. 150; p. 103.
Sewing-machine. F. W. Merrick. No. 945,851; Jan. 11; Sp. p. 1888; Gaz. vol. 150; p. 314.
Sewing-machine. E. P. Arnold. No. 946,591; Jan. 18; Sp. p. 3533; Gaz. vol. 150; p. 595.
Sewing-machine. W. A. McCool. No. 946,979; Jan. 18; Sp. p. 4414; Gaz. vol. 150; p. 726.
Sewing-machine. T. G. Plant. No. 947,401; Jan. 25; Sp. p. 5331; Gaz. vol. 150; p. 895.
Sewing-machine. M. G. and A. Rosenthal. No. 948,345; Feb. 8; Sp. p. 1176; Gaz. vol. 151; p. 216.
Sewing-machine. J. G. Greene and L. F. A. Büchner. No. 949,729; Feb. 15; Sp. p. 4051; Gaz. vol. 151; p. 703.
Sewing-machine. R. A. Bellamy. No. 951,794; Mar. 15; Sp. p. 2717; Gaz. vol. 152; p. 496.
Sewing-machine. C. M. Larsen. No. 954,443; Apr. 12; Sp. p. 1572; Gaz. vol. 153; p. 289.
Sewing-machine. W. T. Auckram. No. 954,847; Apr. 12; Sp. p. 2525; Gaz. vol. 153; p. 430.
Sewing-machine. J. Danenmark. No. 956,300; Apr. 26; Sp. p. 5678; Gaz. vol. 153; p. 988.
Sewing-machine. S. L. Cohen. No. 956,888; May 3; Sp. p. 848; Gaz. vol. 154; p. 134.
Sewing-machine. J. Combest. No. 957,545; May 10; Sp. p. 2240; Gaz. vol. 154; p. 388.
Sewing-machine. F. La Chapelle. No. 957,972; May 17; Sp. p. 3196; Gaz. vol. 154; p. 563.
Sewing-machine. T. G. Plant. No. 958,296; May 17; Sp. p. 4092; Gaz. vol. 154; p. 676.
Sewing-machine. T. G. Plant. No. 958,298; May 17; Sp. p. 4099; Gaz. vol. 154; p. 678.
Sewing-machine. W. F. Lautenschlager. No. 959,948; May 31; Sp. p. 7630; Gaz. vol. 154; p. 1287.
Sewing-machine. E. H. Dodd. No. 960,285; June 7; Sp. p. 89; Gaz. vol. 155; p. 19.
Sewing-machine. F. Jacob. No. 961,135; June 14; Sp. p. 1801; Gaz. vol. 155; p. 327.
Sewing-machine. F. Chatfield. No. 961,207; June 14; Sp. p. 1961; Gaz. vol. 155; p. 354.
Sewing-machine. L. Onderdonk. No. 962,974; June 28; Sp. p. 5723; Gaz. vol. 155; p. 1003.
Sewing-machine. A. H. De Voe. No. 966,431; Aug. 9; Sp. p. 1222; Gaz. vol. 157; p. 221.
Sewing-machine. A. Metzler. No. 966,937; Aug. 9; Sp. p. 2388; Gaz. vol. 157; p. 392.
Sewing-machine. M. H. Stubblefield. No. 967,262; Aug. 16; Sp. p. 3067; Gaz. vol. 157; p. 531.
Sewing-machine. C. H. Jones. No. 967,930; Aug. 23; Sp. p. 4430; Gaz. vol. 157; p. 780.
Sewing-machine. H. F. Moore. No. 968,066; Aug. 23; Sp. p. 4742; Gaz. vol. 157; p. 825.
Sewing-machine. F. A. Putnam and L. L. Livingston. No. 970,550; Sept. 20; Sp. p. 3003; Gaz. vol. 158; p. 523.
Sewing-machine. W. V. Miller. No. 972,894; Oct. 18; Sp. p. 3031; Gaz. vol. 159; p. 535.
Sewing-machine. J. E. Miller. No. 973,123; Oct. 18; Sp. p. 3541; Gaz. vol. 159; p. 613.
Sewing-machine. W. Pepperling. No. 975,155; Nov. 8; Sp. p. 2435; Gaz. vol. 160; p. 395.
Sewing-machine. M. G. and A. Rosenthal. No. 976,399; Nov. 22; Sp. p. 5141; Gaz. vol. 160; p. 872.
Sewing-machine. G. M. Eames. No. 979,451; Dec. 27; Sp. p. 4386; Gaz. vol. 161; p. 777.
Sewing-machine. J. C. Moore. No. 979,537; Dec. 27; Sp. p. 4571; Gaz. vol. 161; p. 806.
Sewing-machine attachment. L. Boyd. No. 946,485; Jan. 11; Sp. p. 3328; Gaz. vol. 150; p. 535.
Sewing-machine attachment. R. and G. Kramer. No. 953,095; Mar. 29; Sp. p. 5411; Gaz. vol. 152; p. 991.
Sewing-machine attachment. M. McCabe. No. 954,756; Apr. 12; Sp. p. 2305; Gaz. vol. 153; p. 399.
Sewing-machine attachment. M. Saldin. No. 955,439; Apr. 19; Sp. p. 3763; Gaz. vol. 153; p. 661.
Sewing-machine attachment. J. W. Veatch. No. 955,619; Apr. 19; Sp. p. 4157; Gaz. vol. 153; p. 724.
Sewing-machine attachment. H. Holforty. No. 956,965; May 3; Sp. p. 1019; Gaz. vol. 154; p. 160.
Sewing-machine attachment. M. E. Tynes. No. 957,276; May 10; Sp. p. 1691; Gaz. vol. 154; p. 296.
Sewing-machine attachment. P. Griffin. No. 960,895; June 7; Sp. p. 1320; Gaz. vol. 155; p. 221.
Sewing-machine attachment. V. E. D'Urso. No. 961,942; June 21; Sp. p. 3540; Gaz. vol. 155; p. 624.
Sewing-machine attachment. G. A. Graydon. No. 962,021; June 21; Sp. p. 3703; Gaz. vol. 155; p. 650.
Sewing-machine attachment. G. O. Beasley. No. 962,731; June 28; Sp. p. 5274; Gaz. vol. 155; p. 920.
Sewing-machine attachment. P. Jacobson. No. 968,852; Aug. 30; Sp. p. 6432; Gaz. vol. 157; p. 421.
Sewing-machine attachment. J. O. Ostman. No. 975,989; Nov. 15; Sp. p. 4175; Gaz. vol. 160; p. 707.
Sewing-machine attachment, Combination. R. Eviston. No. 959,126; May 24; Sp. p. 5883; Gaz. vol. 154; p. 985.
Sewing-machine attachment for overseaming and the like. G. J. Stevens. No. 968,997; Aug. 30; Sp. p. 6719; Gaz. vol. 157; p. 1170.
Sewing-machine attachment-holder. L. Krug. No. 960,345; June 7; Sp. p. 215; Gaz. vol. 155; p. 37.
Sewing-machine attachment, Sole-. C. Wolentarsky. No. 978,099; Dec. 6; Sp. p. 1459; Gaz. vol. 161; p. 235.
Sewing-machine attachment, Wax-thread-. C. L. Eaton. No. 965,379; July 26; Sp. p. 5136; Gaz. vol. 156; p. 881.
Sewing machine, Bag-. C. D. Cromley. No. 978,850; Dec. 20; Sp. p. 3063; Gaz. vol. 161; p. 545.
Sewing-machine belt-guard. M. Rosenbloom and M. Magnes. No. 965,335; July 26; Sp. p. 5049; Gaz. vol. 156; p. 868.
Sewing-machine binding mechanism. J. P. Weis and W. C. Robbins. No. 976,964; Nov. 29; Sp. p. 6387; Gaz. vol. 160; p. 1091.
Sewing-machine, Blindstitch. W. A. McCool. No. 960,570; June 7; Sp. p. 681; Gaz. vol. 155; p. 112.
Sewing-machine, Blindstitch. H. H. and J. E. Fefel. No. 976,256; Nov. 22; Sp. p. 4815; Gaz. vol. 160; p. 823.
Sewing-machine bobbin-winding device. H. McFarlane. No. 961,154; June 14; Sp. p. 1841; Gaz. vol. 155; p. 334.
Sewing machine, Broom-. L. P. Rapp. No. 959,439; May 24; Sp. p. 6492; Gaz. vol. 154; p. 1088.
Sewing machine, Button-. P. E. Schoen. No. 953,977; Apr. 5; Sp. p. 577; Gaz. vol. 153; p. 104.
Sewing machine, Button-. R. L. Lyons. No. 961,507; June 14; Sp. p. 2613; Gaz. vol. 155; p. 456.
Sewing machine, Button-. R. L. Lyons. No. 961,508; June 14; Sp. p. 2617; Gaz. vol. 155; p. 456.
Sewing machine, Buttonhole-. E. B. Allen. No. 945,148; Jan. 4; Sp. p. 278; Gaz. vol. 150; p. 49.
Sewing machine, Buttonhole-. E. B. Allen and J. C. Ringe. No. 946,651; Jan. 18; Sp. p. 3662; Gaz. vol. 150; p. 614.
Sewing-machine buttonhole-stitching attachment. E. J. Boyler. No. 976,431; Nov. 22; Sp. p. 5204; Gaz. vol. 160; p. 884.
Sewing-machine cabinet. T. Kundtz and J. Rehor. No. 946,876; Jan. 18; Sp. p. 4199; Gaz. vol. 150; p. 692.
Sewing-machine cabinet. R. R. Brown. No. 946,893; Jan. 18; Sp. p. 4239; Gaz. vol. 150; p. 697.
Sewing-machine, Chain-stitch. A. H. De Voe. No. 978,140; Dec. 13; Sp. p. 1573; Gaz. vol. 161; p. 279.
Sewing-machine cloth-presser. D. Noble. No. 954,990; Apr. 12; Sp. p. 2826; Gaz. vol. 153; p. 479.
Sewing-machine cloth-presser-lifting mechanism. G. M. Eames and J. S. Finch. No. 945,153; Jan. 4; Sp. p. 298; Gaz. vol. 150; p. 51.
Sewing-machine combination pressure-foot and trimming attachment. I. Weinbach and M. Stuhler. No. 947,506; Jan. 25; Sp. p. 5605; Gaz. vol. 150; p. 931.
Sewing-machine cording attachment. A. P. Day. No. 945,759; Jan. 11; Sp. p. 1672; Gaz. vol. 150; p. 280.
Sewing-machine, Drop-head. S. A. Davis. No. 962,700; June 28; Sp. p. 5211; Gaz. vol. 155; p. 909.
Sewing-machine edge-trimmer attachment. A. B. Wales. No. 959,275; May 24; Sp. p. 6191; Gaz. vol. 154; p. 1034.
Sewing-machine embroidering or darning foot. W. C. Ellis. No. 948,683; Feb. 8; Sp. p. 1916; Gaz. vol. 151; p. 329.
Sewing-machine, Embroidery or ornamental stitch. W. N. Parkes. No. 946,150; Jan. 11; Sp. p. 2499; Gaz. vol. 150; p. 417.
Sewing-machine feed mechanism. A. L. Dawson. No. 968,329; Aug. 23; Sp. p. 5322; Gaz. vol. 157; p. 917.
Sewing-machine feeding attachment. R. K. Hohmann. No. 957,211; May 10; Sp. p. 1538; Gaz. vol. 154; p. 272.
Sewing-machine feeding mechanism. A. H. De Voe. No. 946,662; Jan. 18; Sp. p. 3691; Gaz. vol. 150; p. 617.
Sewing-machine feeding mechanism. J. P. Weis. No. 960,464; June 7; Sp. p. 442; Gaz. vol. 155; p. 75.

Sewing-machine feeding mechanism. J. McKay. No. 970,847; Sept. 20; Sp. p. 3670; Gaz. vol. 158; p. 627.
Sewing-machine folder. A. H. De Voe. No. 970,474; Sept. 20; Sp. p. 2838; Gaz. vol. 158; p. 496.
Sewing-machine folding and guiding attachment. C. T. McKane. No. 973,530; Oct. 25; Sp. p. 4444; Gaz. vol. 159; p. 776.
Sewing-machine folding and trimming mechanism. D. Zeiser. No. 948,364; Feb. 8; Sp. p. 1217; Gaz. vol. 151; p. 222.
Sewing-machine for felling. W. Arbetter. No. 969,740; Sept. 6; Sp. p. 1260; Gaz. vol. 158; p. 202.
Sewing-machine gage. J. L. Kleinman. No. 952,336; Mar. 15; Sp. p. 3786; Gaz. vol. 152; p. 677.
Sewing-machine gage. H. J. Hamlin. No. 968,346; Aug. 23; Sp. p. 5351; Gaz. vol. 157; p. 923.
Sewing-machine guard. L. Schreiber. No. 947,651; Jan. 25; Sp. p. 5903; Gaz. vol. 150; p. 980.
Sewing-machine guide. B. Fleigel. No. 959,330; May 24; Sp. p. 6300; Gaz. vol. 154; p. 1053.
Sewing-machine guide. A. L. Richolson. No. 971,562; Oct. 4; Sp. p. 113; Gaz. vol. 159; p. 22.
Sewing-machine, Hemstitch. M. Hemleb. No. 955,963; Apr. 26; Sp. p. 4927; Gaz. vol. 153; p. 871.
Sewing-machine, Hemstitch. L. Onderdonk. No. 962,973; June 28; Sp. p. 5718; Gaz. vol. 155; p. 1003.
Sewing machine, Hook-and-eye-. W. A. Courtland. No. 974,753; Nov. 1; Sp. p. 1528; Gaz. vol. 160; p. 234.
Sewing-machine indicating device. W. C. Robbins. No. 951,967; Mar. 15; Sp. p. 3067; Gaz. vol. 152; p. 554.
Sewing-machine, Lock-stitch. H. H. Cummings. No. 964,852; July 19; Sp. p. 4050; Gaz. vol. 156; p. 674.
Sewing-machine looper. J. P. Weis. No. 973,900; Oct. 25; Sp. p. 5225; Gaz. vol. 159; p. 906.
Sewing-machine looper mechanism, Hooked-needle. F. W. Merrick. No. 946,064; Jan. 11; Sp. p. 2329; Gaz. vol. 150; p. 387.
Sewing-machine looper-operating mechanism. R. G. Woodward. No. 947,210; Jan. 18; Sp. p. 4855; Gaz. vol. 150; p. 801.
Sewing machine, Mantle-. S. Cohn. No. 956,943; May 3; Sp. p. 951; Gaz. vol. 154; p. 152.
Sewing-machine, &c., motors, Device for operating. W. Lenhart. No. 957,223; May 10; Sp. p. 1572; Gaz. vol. 154; p. 277.
Sewing-machine needle. J. French. No. 947,484; Jan. 25; Sp. p. 5553; Gaz. vol. 150; p. 923.
Sewing-machine needle. J. French. No. 947,485; Jan. 25; Sp. p. 5555; Gaz. vol. 150; p. 923.
Sewing-machine, Overseam. A. A. Merritt and G. H. Noble. No. 967,804; Aug. 16; Sp. p. 4166; Gaz. vol. 157; p. 714.
Sewing-machine presser-foot. J. S. Johnston. No. 954,970; Apr. 12; Sp. p. 2793; Gaz. vol. 153; p. 473.
Sewing-machine presser-foot. G. S. Gatchell. No. 963,135; July 5; Sp. p. 275 Gaz. vol. 156; p. 38.
Sewing-machine presser-foot, Overseaming-. R. G. Woodward. No. 953,654; Mar. 29; Sp. p. 6614; Gaz. vol. 152; p. 1180.
Sewing machine, Shoe-. A. Eppler. No. 950,616; Mar. 1; Sp. p. 320; Gaz. vol. 152; p. 53.
Sewing machine, Shoe-. F. J. Nash. No. 955,982; Apr. 26; Sp. p. 4968; Gaz. vol. 153; p. 878.
Sewing machine, Shoe-. E. E. Bean. No. 956,469; Apr. 26; Sp. p. 6029; Gaz. vol. 153; p. 1046.
Sewing machine, Shoe-. J. J. Heys. No. 957,954; May 17; Sp. p. 3110; Gaz. vol. 154; p. 555.
Sewing machine, Shoe-. T. G. Plant. No. 958,294; May 17; Sp. p. 4083; Gaz. vol. 154; p. 676.
Sewing machine, Shoe-. T. G. Plant. No. 958,299; May 17; Sp. p. 4107; Gaz. vol. 154; p. 678.
Sewing machine, Shoe-. A. B. Fowler. No. 976,450; Nov. 22; Sp. p. 5245; Gaz. vol. 160; p. 890.
Sewing-machine shuttle. H. A. Bates. No. 951,554; Mar. 8; Sp. p. 2221; Gaz. vol. 152; p. 385.
Sewing-machine shuttle-carrier. J. B. Angove. No. 945,207; Jan. 4; Sp. p. 415; Gaz. vol. 150; p. 69.
Sewing machine, Sole-. J. B. Hadaway. No. 963,761; July 12; Sp. p. 1620; Gaz. vol. 156; p. 273.
Sewing-machine spool-case. J. Vannette. No. 969,009; Aug. 30; Sp. p. 6747; Gaz. vol. 157; p. 1175.
Sewing-machine stitch-forming mechanism. J. P. Weis. No. 971,229; Sept. 27; Sp. p. 4454; Gaz. vol. 158; p. 780.
Sewing-machine table. T. Kundtz and A. Schuster. No. 975,050; Nov. 8; Sp. p. 2208; Gaz. vol. 160; p. 360.
Sewing-machine table. S. P. Gerdin. No. 977,726; Dec. 6; Sp. p. 681; Gaz. vol. 161; p. 105.
Sewing-machine table, Adjustable. V. Gibbins. No. 958,800; May 24; Sp. p. 5190; Gaz. vol. 154; p. 874.
Sewing-machine take-up. J. Diehl. No. 946,019; Jan. 11; Sp. p. 2245; Gaz. vol. 150; p. 373.
Sewing-machine take-up. R. K. Hohmann. No. 977,630; Dec. 6; Sp. p. 477; Gaz. vol. 161; p. 73.
Sewing-machine tension device. C. Pedersen. No. 961,893; June 21; Sp. p. 3440; Gaz. vol. 155; p. 608.
Sewing-machine tension-indicator. F. H. Hoenk. No. 971,842; Oct. 4; Sp. p. 696; Gaz. vol. 159; p. 122.
Sewing-machine tension-releasing device. W. C. Free. No. 954,858; Apr. 12; Sp. p. 2551; Gaz. vol. 153; p. 435.
Sewing-machine, Thong-stitch. E. Gnoeth. No. 978,017; Dec. 6; Sp. p. 1284; Gaz. vol. 161; p. 205.
Sewing-machine thread-controller. J. Berger. No. 978,267; Dec. 13; Sp. p. 1849; Gaz. vol. 161; p. 323.
Sewing-machine thread-controlling mechanism. T. G. Plant. No. 946,783; Jan. 18; Sp. p. 3957; Gaz. vol. 150; p. 658.
Sewing-machine thread cutting and clamping mechanism. J. Kiewicz. No. 952,010; Mar. 15; Sp. p. 3152; Gaz. vol. 152; p. 567.
Sewing-machine thread-cutting device. R. L. Lyons. No. 961,509; June 14; Sp. p. 2619; Gaz. vol. 155; p. 457.
Sewing-machine thread take-up. W. R. Blair. No. 978,832; Dec. 20; Sp. p. 3034; Gaz. vol. 161; p. 540.
Sewing-machine trimming mechanism. J. P. Weis. No. 954,553; Apr. 12; Sp. p. 1825; Gaz. vol. 153; p. 327.
Sewing-machine trimming mechanism. R. G. Woodward. No. 976,023; Nov. 15; Sp. p. 4239; Gaz. vol. 160; p. 719.
Sewing-machine, Two-reel. D. Flanagan. No. 947,381; Jan. 25; Sp. p. 5292; Gaz. vol. 150; p. 889.
Sewing-machine, Two-thread overedge. G. Niedermayr. No. 974,910; Nov. 8; Sp. p. 1879; Gaz. vol. 160; p. 311.
Sewing-machine, Wax-thread. C. Pedersen. No. 976,746; Nov. 22; Sp. p. 5841; Gaz. vol. 160; p. 989.
Sewing-machine waxing apparatus. F. M. Allen. No. 949,515; Feb. 15; Sp. p. 3638; Gaz. vol. 151; p. 633.
Sewing-machine welt-holder. T. G. Plant. No. 958,297; May 17; Sp. p. 4097; Gaz. vol. 154; p. 677.
Sewing-machine work-guide. J. P. Weis and W. C. Robbins. No. 954,552; Apr. 12; Sp. p. 1821; Gaz. vol. 153; p. 327.
Sewing-machine work guide or gage. L. Bulasky. No. 970,179; Sept. 13; Sp. p. 2209; Gaz. vol. 158; p. 376.
Sewing-machines, Awl-feed for. C. Pedersen. No. 960,692; June 7; Sp. p. 927; Gaz. vol. 155; p. 153.
Sewing-machines, Basket attachment for. J. E. Ringnell. No. 949,662; Feb. 15; Sp. p. 3913; Gaz. vol. 151; p. 682.
Sewing-machines, Differential feeding mechanism for. J. P. Weis. No. 971,230; Sept. 27; Sp. p. 4458; Gaz. vol. 158; p. 780.
Sewing-machines, Extension-leaf-latching mechanism for. C. E. Colegrove. No. 969,938; Sept. 13; Sp. p. 1713; Gaz. vol. 158; p. 295.
Sewing machines, &c., Reservoir for button-. J. Perley. No. 955,195; Apr. 19; Sp. p. 3227; Gaz. vol. 153; p. 579.
Sewing machines, Shuttle-locking device for shoe-. H. O. Fletcher. No. 962,206; June 21; Sp. p. 4126; Gaz. vol. 155; p. 716.
Sewing-machines, Tabi-fastener attachment for. C. M. Horton. No. 958,251; May 17; Sp. p. 3920; Gaz. vol. 154; p. 659.
Sewing-stand. J. Silknitter. No. 953,767; Apr. 5; Sp. p. 170; Gaz. vol. 153; p. 31.
Sewing-stand. L. B. Laridon. No. 967,941; Aug. 23; Sp. p. 4454; Gaz. vol. 157; p. 783.
Sewing-table for bookbinders. G. M. Gaither. No. 956,333; Apr. 26; Sp. p. 5743; Gaz. vol. 153; p. 999.
Sextant. M. P. T. Smith. No. 957,386; May 10; Sp. p. 1916; Gaz. vol. 154; p. 333.
Shackle. A. Thomson. No. 976,316; Nov. 22; Sp. p. 4944; Gaz. vol. 160; p. 843.
Shade-adjuster. J. Habein. No. 953,418; Mar. 29; Sp. p. 6117; Gaz. vol. 152; p. 1099.
Shade adjuster, Window-. F. C. Perrott. No. 950,953; Mar. 1; Sp. p. 1027; Gaz. vol. 152; p. 164.
Shade adjuster, Window-. L. P. Harris. No. 956,085; Apr. 26; Sp. p. 5201; Gaz. vol. 153; p. 915.
Shade and curtain bracket. C. L. Renzenbrink. No. 952,841; Mar. 22; Sp. p. 4880; Gaz. vol. 152; p. 878.
Shade and curtain bracket. M. Bassett. No. 958,463; May 17; Sp. p. 4498; Gaz. vol. 154; p. 736.
Shade and curtain bracket support and shade-guide, Combined. E. Hoxworth. No. 951,440; Mar. 8; Sp. p. 1989; Gaz. vol. 152; p. 346.
Shade and curtain fixture bracket. G. B. Sessions. No. 966,608; Aug. 9; Sp. p. 1661; Gaz. vol. 157; p. 284.
Shade and curtain fixture, Window. L. O. Garraway and H. T. Haase. No. 969,051; Aug. 30; Sp. p. 6828; Gaz. vol. 157; p. 1189.
Shade and curtain hanger. H. J. Dempsey. No. 962,132; June 21; Sp. p. 3976; Gaz. vol. 155; p. 691.
Shade and curtain support. K. Click. No. 959,113; May 24; Sp. p. 5853; Gaz. vol. 154; p. 981.
Shade and lace-curtain support, Window-. H. F. Cook. No. 978,114; Dec. 6; Sp. p. 1492; Gaz. vol. 161; p. 240.
Shade and pole bracket, Combined. N. B. Crosby. No. 962,007; June 21; Sp. p. 3675; Gaz. vol. 155; p. 646.
Shade and roller, Window-. P. E. Lowe and B. De Young. No. 960,228; May 31; Sp. p. 8218; Gaz. vol. 154; p. 1383.
Shade attachment. H. D'Olier, Jr. No. 951,269; Mar. 8; Sp. p. 1626; Gaz. vol. 152; p. 290.
Shade attachment. L. J. Everest. No. 966,436; Aug. 9; Sp. p. 1234; Gaz. vol. 157; p. 223.
Shade attachment, Window-. E. S. Taylor. No. 976,707; Nov. 22; Sp. p. 5764; Gaz. vol. 160; p. 976.
Shade-bracket. P. Rabideau. No. 971,214; Sept. 27; Sp. p. 4427; Gaz. vol. 158; p. 775.
Shade-bracket, Adjustable. J. M. Mays. No. 972,888; Oct. 18; Sp. p. 3020; Gaz. vol. 159; p. 533.
Shade bracket and hanger, Window-. W. D. Merrell. No. 965,592; July 26; Sp. p. 5623; Gaz. vol. 156; p. 957.
Shade-bracket, Vertically-movable. J. E. Hall. No. 977,949; Dec. 6; Sp. p. 1140; Gaz. vol. 161; p. 183.

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Shade bracket, Window-. F. H. Knapp. No. 954,742; Apr. 12; Sp. p. 2270; Gaz. vol. 153; p. 394.
Shade bracket, Window-. F. A. Goppelt, Jr. No. 971,988; Oct. 4; Sp. p. 1063; Gaz. vol. 159; p. 178.
Shade, curtain, and drapery support for rollers, Combined. R. Wendt. No. 973,829; Oct. 25; Sp. p. 5066; Gaz. vol. 159; p. 881.
Shade-fixture, Adjustable. C. T. Agersburg and J. A. Loff. No. 978,260; Dec. 13; Sp. p. 1835; Gaz. vol. 161; p. 320.
Shade fixture, Curtain-. G. D. Hartlett. No. 969,473; Sept. 6; Sp. p. 678; Gaz. vol. 158; p. 108.
Shade fixture, Window-. A. J. Poteet. No. 956,731; May 3; Sp. p. 498; Gaz. vol. 154; p. 80.
Shade fixture, Window-. W. G. Templeton. No. 962,270; June 21; Sp. p. 4263; Gaz. vol. 155; p. 737.
Shade-guide. P. G. Emery. No. 970,452; Sept. 13; Sp. p. 2775; Gaz. vol. 158; p. 466.
Shade-hanger. A. H. Sammons and D. T. Peters. No. 967,568; Aug. 16; Sp. p. 3697; Gaz. vol. 157; p. 636.
Shade-hanger and curtain-support. B. Kreuzberger. No 969,962; Sept. 13; Sp. p. 1779; Gaz. vol. 158; p. 302.
Shade-hanger, Vertically-adjustable. W. B. Caswell. No. 956,842; May 3; Sp. p. 744; Gaz. vol. 154; p. 118.
Shade hanger, Window-. W. D. Lee. No. 946,700; Jan. 18; Sp. p. 3766; Gaz. vol. 150; p. 630.
Shade hanger, Window-. C. N. Hiner. No. 961,230; June 14; Sp. p. 2006; Gaz. vol. 155; p. 362.
Shade-holder. E. E. Brock. No. 948,473; Feb. 8; Sp. p. 1459; Gaz. vol. 151; p. 259.
Shade-holder. L. J. Castonguay. No. 957,305; May 10; Sp. p. 1751; Gaz. vol. 154; p. 306.
Shade-holder. H. Hubbell. No. 964,519; July 19; Sp. p. 3239; Gaz. vol. 156; p. 559.
Shade-holder. H. Hubbell. No. 964,520; July 19; Sp. p. 3239; Gaz. vol. 156; p. 559.
Shade-holder. A. S. Lyhne. No. 967,401; Aug. 16; Sp. p. 3364; Gaz. vol. 157; p. 580.
Shade-holder. E. T. Stoddard. No. 967,458; Aug. 16; Sp. p. 3464; Gaz. vol. 157; p. 597.
Shade-holder. T. Smith. No. 969,211; Sept. 6; Sp. p. 147; Gaz. vol. 158; p. 24.
Shade-holder. J. H. Dale. No. 970,804; Sept. 20; Sp. p. 3585; Gaz. vol. 158; p. 613.
Shade-holder. W. H. Perkins. No. 973,876; Oct. 25; Sp. p. 5169; Gaz. vol. 159; p. 898.
Shade-holder. E. E. Hayward. No. 974,568; Nov. 1; Sp. p. 1139; Gaz. vol. 160; p. 171.
Shade-holder. P. J. Handel and A. E. Teich. No. 979,664; Dec. 27; Sp. p. 4850; Gaz. vol. 161; p. 850.
Shade-holder. W. H. Perkins. No. 979,793; Dec. 27; Sp. p. 5154; Gaz. vol. 161; p. 894.
Shade holder and swinging curtain-pole, Combination window-. A. Rotzel and M. Imbt. No. 974,710; Nov. 1; Sp. p. 1439; Gaz. vol. 160; p. 222.
Shade-holder coupling. E. F. Pierce. No. 962,524; June 28; Sp. p. 4828; Gaz. vol. 155; p. 849.
Shade holder, Window-. G. W. Wray. No. 972,972; Oct. 18; Sp. p. 3233; Gaz. vol. 159; p. 562.
Shade-holders to sockets, Device for attaching. A. S. Lyhne. No. 967,534; Aug. 16; Sp. p. 3631; Gaz. vol. 157; p. 624.
Shade-making machine, Window-. B. W. Tucker. No. 976,949; Nov. 29; Sp. p. 6335; Gaz. vol. 160; p. 1085.
Shade or curtain bracket, Adjustable. W. E. Severin. No. 970,855; Sept. 20; Sp. p. 3687; Gaz. vol. 158; p. 629.
Shade or globe holder. A. E. Smithdale. No. 965,340; July 26; Sp. p. 5059; Gaz. vol. 156; p. 870.
Shade or reflector attachment. H. D'Olier, Jr. No. 977,940; Dec. 6; Sp. p. 1124; Gaz. vol. 161; p. 180.
Shade or reflector attachment. H. D'Olier, Jr. No. 977,941; Dec. 6; Sp. p. 1126; Gaz. vol. 161; p. 180.
Shade ornament and weight, Combined window-. M. A. Sapp. No. 955,913; Apr. 26; Sp. p. 4824; Gaz. vol. 153; p. 853.
Shade package, Window-. M. Price. No. 945,417; Jan. 4; Sp. p. 896; Gaz. vol. 150; p. 139.
Shade-roller. A. Kaiserman. No. 953,842; Apr. 5; Sp. p. 322; Gaz. vol. 153; p. 57.
Shade-roller. L. T. Bulley. (Reissue.) No. 13,103; Apr. 19; Sp. p. 4643; Gaz. vol. 153; p. 801.
Shade-roller and curtain fixture, Adjustable. E. J. Corrigan No. 966,798; Aug. 9; Sp. p. 2095; Gaz. vol. 157; p. 347.
Shade-roller attachment. H. Cole. No. 961,680; June 14; Sp. p. 2972; Gaz. vol. 155; p. 514.
Shade-roller bracket. A. Rothfuchs and C. Eck. No. 974,436; Nov. 1; Sp. p. 810; Gaz. vol. 160; p. 122.
Shade-roller, Spring. E. F. Hartshorn. No. 949,893; Feb. 22; Sp. p. 4458; Gaz. vol. 151; p. 796.
Shade-roller support, Adjustable. H. L. and E. L. Rich. No. 947,084; Jan. 18; Sp. p. 4607; Gaz. vol. 150; p. 761.
Shade-roller support, Window-. E. O. Engberg. No. 979,752; Dec. 27; Sp. p. 5057; Gaz. vol. 161; p. 880.
Shade-rollers and curtains, Adjustable support and bracket for. T. E. Johnson. No. 947,240; Jan. 25; Sp. p. 4927; Gaz. vol. 150; p. 839.
Shade support, Window-. L. F. Weiher. No. 978,246; Dec. 13; Sp. p. 1796; Gaz. vol. 161; p. 315.
Shade support, Window-. L. F. Weiher. No. 978,247; Dec. 13; Sp. p. 1798; Gaz. vol. 161; p. 315.
Shade, Window-. D. C. Harrison. No. 957,207; May 10; Sp. p. 1532; Gaz. vol. 154; p. 271.
Shades, &c., Casing and guide for window-. M. W. Conway. No. 965,441; July 26; Sp. p. 5272; Gaz. vol. 156; p. 903.
Shades, Holding mechanism for spring-actuated. G. H. Davis. No. 966,085; Aug. 2; Sp. p. 514; Gaz. vol. 157; p. 83.
Shades, Machine for making window-. B. W. Tucker. No. 962,178; June 21; Sp. p. 4075; Gaz. vol. 155; p. 707.
Shades on rollers, Machine for fastening. L. B. Girard. No. 976,356; Nov. 22; Sp. p. 5040; Gaz. vol. 160; p. 856.
Shades, Swinging support for window-. M. J. Smith. No. 971,414; Sept. 27; Sp. p. 4797; Gaz. vol. 158; p. 839.
Shaft. W. S. Simpson. No. 967,145; Aug. 9; Sp. p. 2830; Gaz. vol. 157; p. 464.
Shaft-alining device. E. S. Ferris. No. 958,736; May 24; Sp. p. 5026; Gaz. vol. 154; p. 851.
Shaft and the like coupling. C. Cottin. No. 951,235; Mar. 8; Sp. p. 1556; Gaz. vol. 152; p. 279.
Shaft attachment. J. F. Davis. No. 975,332; Nov. 8; Sp. p. 2822; Gaz. vol. 160; p. 456.
Shaft attachment, Vehicle-. H. M. Powell. No. 967,052; Aug. 9; Sp. p. 2634; Gaz. vol. 157; p. 432.
Shaft-brace. A. R. Friedmann. No. 951,780; Mar. 8; Sp. p. 2676; Gaz. vol. 152; p. 462.
Shaft, Cannon-pinion. W. B. Mehl. No. 951,139; Mar. 8; Sp. p. 1374; Gaz. vol. 152; p. 249.
Shaft-centering device. E. S. Ferris. No. 953,131; Mar. 29; Sp. p. 5495; Gaz. vol. 152; p. 1002.
Shaft-collar. F. F. Ellis. No. 977,720; Dec. 6; Sp. p. 671; Gaz. vol. 161; p. 103.
Shaft-collars and the like, Safety connection for. J. H. Kelly. No. 959,752; May 31; Sp. p. 7179; Gaz. vol. 154; p. 1219.
Shaft connection, Elastic. F. Tyson. No. 976,232; Nov. 22; Sp. p. 4742; Gaz. vol. 160; p. 814.
Shaft controlling means, Driving-. T. G. Plant. No. 958,303; May 17; Sp. p. 4143; Gaz. vol. 154; p. 679.
Shaft-coupling. B. P. and F. I. Remy. No. 958,540; May 17; Sp. p. 4637; Gaz. vol. 154; p. 762.
Shaft-coupling. D. M. Bliss. No. 965,131; July 19; Sp. p. 4601; Gaz. vol. 156; p. 767.
Shaft-coupling. H. M. Rockwell. No. 966,474; Aug. 9; Sp. p. 1338; Gaz. vol. 157; p. 237.
Shaft-coupling. J. M. Schwab. No. 969,662; Sept. 6; Sp. p. 1085; Gaz. vol. 158; p. 174.
Shaft-coupling. C. A. Carlson. No. 970,793; Sept. 20; Sp. p. 3556; Gaz. vol. 158; p. 608.
Shaft-coupling. M. T. Thomas. No. 972,292; Oct. 11; Sp. p. 1700; Gaz. vol. 159; p. 299.
Shaft-coupling, Flexible. J. W. Walters. No. 956,912; May 3; Sp. p. 899; Gaz. vol. 154; p. 142.
Shaft-engaging means, Adjustable. F. P. Huyck. No. 972,787; Oct. 11; Sp. p. 2760; Gaz. vol. 159; p. 469.
Shaft, Flexible. F. Schmidt and A. Grundmann. No. 969,660; Sept. 6; Sp. p. 1082; Gaz. vol. 158; p. 173.
Shaft, Flexible. S. C. Moorhead. No. 979,985; Dec. 27; Sp. p. 5541; Gaz. vol. 161; p. 957.
Shaft-hanger. H. E. Norbom. No. 951,447; Mar. 8; Sp. p. 2001; Gaz. vol. 152; p. 348.
Shaft-hanger. C. W. Levalley. No. 974,502; Nov. 1; Sp. p. 980; Gaz. vol. 160; p. 146.
Shaft-hanger and belt-tightener, Combination. R. J. McGrath. No. 960,571; June 7; Sp. p. 683; Gaz. vol. 155; p. 112.
Shaft-hanger attachment to girders, Adjustable. C. S. Grannis. No. 966,906; Aug. 9; Sp. p. 2326; Gaz. vol. 157; p. 382.
Shaft-hanger, Sheet-metal. C. A. Condé. No. 966,527; Aug. 9; Sp. p. 1491; Gaz. vol. 157; p. 256.
Shaft-hangers, Device for supporting. E. Gruenfeldt. No. 949,229; Feb. 15; Sp. p. 3030; Gaz. vol. 151; p. 537.
Shaft holder, Vehicle-. O. B. Oller and C. M. Hill. No. 956,154; Apr. 26; Sp. p. 5347; Gaz. vol. 153; p. 939.
Shaft-hook, Safety-holdback. D. N. Hyre and J. W. Shirey. No. 957,678; May 10; Sp. p. 2507; Gaz. vol. 154; p. 433.
Shaft, Leather-skiving-machine. L. Muther and G. A. Henderson. No. 958.155; May 17; Sp. p. 3722; Gaz. vol. 154; p. 629.
Shaft-liner. L. N. Brouillard. No. 947,072; Jan. 18; Sp. p. 4585; Gaz. vol. 150; p. 756.
Shaft-lining. R. M. Dravo and F. Donaldson. No. 971,733; Oct. 4; Sp. p. 477; Gaz. vol. 159; p. 82.
Shaft-lining. R. M. Dravo and F. Donaldson. No. 971,734; Oct. 4; Sp. p. 478; Gaz. vol. 159; p. 82.
Shaft or axle crank. C. Fremont. No. 958,958; May 24; Sp. p. 5536; Gaz. vol. 154; p. 929.
Shaft-oscillator. A. H. Wouters. No. 957,289; May 10; Sp. p. 1719; Gaz. vol. 154; p. 300.
Shaft-reversing mechanism. J. D. Mooney. No. 962,450; June 28; Sp. p. 4668; Gaz. vol. 155; p. 824.
Shaft-securing device. E. H. Dimler. No. 966,666; Aug. 9; Sp. p. 1773; Gaz. vol. 157; p. 303.
Shaft-shifter. J. T. Emmerson. No. 979,751; Dec. 27; Sp. p. 5056; Gaz. vol. 161; p. 880.
Shaft-spring. J. F. Rouston. No. 946,274; Jan. 11; Sp. p. 2782; Gaz. vol. 150; p. 462.
Shaft spring-support, Wagon-. P. W. Zeller. No. 961,708; June 14; Sp. p. 3021; Gaz. vol. 155; p. 523.

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Shaft-support. J. Eherenman. No. 946,023; Jan. 11; Sp. p. 2251; Gaz. vol. 150; p. 374.
Shaft winch attachment, Stationary-hoister-. A. Lambert. No. 967,202; Aug. 16; Sp. p. 2951; Gaz. vol. 157; p. 510.
Shafts and the like, Apparatus for centering. G. Williamson. No. 979,909; Dec. 27; Sp. p. 5400; Gaz. vol. 161; p. 933.
Shafts, Device for coupling two transmission-. A. C. Krebs. No. 976,187; Nov. 22; Sp. p. 4631; Gaz. vol. 160; p. 797.
Shafts for vehicles, Shifting. W. A. Kitchen. No. 947,824; Feb. 1; Sp. p. 75; Gaz. vol. 151; p. 16.
Shafts, Machine for forming heel-irons for vehicle-. G. A. Lambert. No. 979,517; Dec. 27; Sp. p. 4520; Gaz. vol. 161; p. 798.
Shafts, Making crank-. W. I. Brock. No. 954,923; Apr. 12; Sp. p. 2702; Gaz. vol. 153; p. 457.
Shafts, Means for fastening rolls to. C. D. Curry and A. W. Linn. No. 967,334; Aug. 16; Sp. p. 3213; Gaz. vol. 157; p. 556.
Shafts, Means for retaining roller-bearing sleeves on. C. S. Lockwood. No. 955,120; Apr. 12; Sp. p. 3064; Gaz. vol. 153; p. 519.
Shafts or the like, Sinking. D. E. Moran. No. 961,788; June 21; Sp. p. 3197; Gaz. vol. 155; p. 574.
Shafts, Step-bearing for upright. R. H. Rice. No. 953,231; Mar. 29; Sp. p. 5701; Gaz. vol. 152; p. 1035.
Shafting-collar. N. W. Moodey. No. 945,106; Jan. 4; Sp. p. 206; Gaz. vol. 150; p. 35.
Shafting, Flexible. D. Schoening. No. 956,737; May 3; Sp. p. 509; Gaz. vol. 154; p. 82.
Shafting, Flexible. R. Abell. No. 970,675; Sept. 20; Sp. p. 3288; Gaz. vol. 158; p. 566.
Shaker. C. Artner. No. 950,088; Feb. 22; Sp. p. 4914; Gaz. vol. 151; p. 864.
Shaker. E. K. Hood. No. 974,968; Nov. 8; Sp. p. 2038; Gaz. vol. 160; p. 333.
Shaker, Combination-. H. J. Turner. No. 947,315; Jan. 25; Sp. p. 5130; Gaz. vol. 150; p. 866.
Shaking-grizzly. C. H. Gunn. No. 975,413; Nov. 15; Sp. p. 2991; Gaz. vol. 160; p. 509.
Shaking-screen. C. W. Honabach. No. 948,222; Feb. 1; Sp. p. 904; Gaz. vol. 151; p. 148.
Shale-breaker. W. R. Cunningham. No. 959,202; May 24; Sp. p. 6042; Gaz. vol. 154; p. 1010.
Shampoo protection device. J. E. Payne. No. 969,491; Sept. 6; Sp. p. 721; Gaz. vol. 158; p. 114.
Shampooing device. J. Sparenburg. No. 973,822; Oct. 25; Sp. p. 5049; Gaz. vol. 159; p. 878.
Shaper. J. F. Pribnow. No. 972,913; Oct. 18; Sp. p. 3087; Gaz. vol. 159; p. 542.
Shaper and planer. H. E. Rhoads. No. 946,399; Jan. 11; Sp. p. 3140; Gaz. vol. 150; p. 506.
Shaper attachment. L. Kramer and C. Brown. No. 948,784; Feb. 8; Sp. p. 2137; Gaz. vol. 151; p. 363.
Shaper-collar, Antifriction. R. Latcham. No. 947,079; Jan. 18; Sp. p. 4594; Gaz. vol. 150; p. 758.
Shaper-guard. W. G. Stewart. No. 955,482; Apr. 19; Sp. p. 3847; Gaz. vol. 153; p. 677.
Shaping-machine. J. C. Steen and N. B. Chace. No. 949,735; Feb. 15; Sp. p. 4067; Gaz. vol. 151; p. 706.
Shaping-machine. F. L. Eberhardt. No. 973,415; Oct. 18; Sp. p. 4198; Gaz. vol. 159; p. 715.
Shaping-machine. T. J. Gilliam. No. 975,946; Nov. 15; Sp. p. 4102; Gaz. vol. 160; p. 692.
Shaping machine, Duplicate-. O. Jensen. No. 962,573; June 28; Sp. p. 4947; Gaz. vol. 155; p. 866.
Shaping machine, Traverse head-. A. R. Murray. No. 950,783; Mar. 1; Sp. p. 694; Gaz. vol. 152; p. 111.
Shaping-machines and the like, Speed-box for. M. Flather. No. 947,228; Jan. 25; Sp. p. 4903; Gaz. vol. 150; p. 836.
Shank-pieces, Machine for attaching. E. F. Mower. No. 965,213; July 26; Sp. p. 4772; Gaz. vol. 156; p. 825.
Sharpener, Cutlery-. J. A. Wilkinson. No. 948,362; Feb. 8; Sp. p. 1214; Gaz. vol. 151; p. 222.
Sharpener, Disk-. J. R. Buttweiler. No. 950,016; Feb. 22; Sp. p. 4778; Gaz. vol. 151; p. 841.
Sharpener, Disk-. W. O. Vevle. No. 964,071; July 12; Sp. p. 2297; Gaz. vol. 156; p. 378.
Sharpener, Disk-. J. I. Depew No. 979,831; Dec. 27; Sp. p. 5239; Gaz. vol. 161; p. 907.
Sharpener, Drill-. D. G. Morgan. No. 949,040; Feb. 15; Sp. p. 2665; Gaz. vol. 151; p. 475.
Sharpener, Drill-. R. A. Schmidt. No. 969,081; Aug. 30; Sp. p. 6893; Gaz. vol. 157; p. 1200.
Sharpener for mowing-machines, Knife-. J. Knecht. No. 974,078; Oct. 25; Sp. p. 5577; Gaz. vol. 159; p. 967.
Sharpener for scissors, knives, and the like. J. Holt. No. 954,289; Apr. 5; Sp. p. 1261; Gaz. vol. 153; p. 209.
Sharpener for scraper-blades. J. F. Weber. No. 947,875; Feb. 1; Sp. p. 217; Gaz. vol. 151; p. 35.
Sharpener, Knife and scissors. M. E. Ingram. No. 948,173; Feb. 1; Sp. p. 799; Gaz. vol. 151; p. 132.
Sharpener, Lawn-mower. B. Hadley and B. Moylan. No. 950,445; Feb. 22; Sp. p. 5613; Gaz. vol. 151; p. 984.
Sharpener, Lawn-mower. H. R. Atwater. No. 956,873; May 3; Sp. p. 811; Gaz. vol. 154; p. 129.
Sharpener, Lawn-mower. H. O. Neff. No. 965,926; Aug. 2; Sp. p. 162; Gaz. vol. 157; p. 28.
Sharpener, Lawn-mower. L. Chaille. No. 978,356; Dec 13; Sp. p. 2030; Gaz. vol. 161; p. 354.
Sharpener, Mechanical tool-. M. W. Brinkmann. No. 966,731; Aug. 9; Sp. p. 1920; Gaz. vol. 157; p. 325.
Sharpener, Planer-knife. C. O. Peterson. No. 962,047; June 21; Sp. p. 3762; Gaz. vol. 155; p. 660.
Sharpener, Razor-blade. G. G. Floyd. No. 959,496; May 31; Sp. p. 6651; Gaz. vol. 154; p. 1134.
Sharpener, Saw-. E. J. Shafer. No. 945,201; Jan. 4; Sp. p. 407; Gaz. vol. 150; p. 67.
Sharpener, Scissors-. I. O. Day. No. 956,518; May 3; Sp. p. 21; Gaz. vol. 154; p. 7.
Sharpener, Scissors-. F. M. Bennett. No. 968,443; Aug. 23; Sp. p. 5538; Gaz. vol. 157; p. 955.
Sharpener, Scraper-. J. E. Hillstrom. No. 956,350; Apr. 26; Sp. p. 5775; Gaz. vol. 153; p. 1005.
Sharpener, Tool-. J. Noss. No. 948,429; Feb. 8; Sp. p. 1370; Gaz. vol. 151; p. 244.
Sharpener, Tool-. M. W. Brinkmann. No. 966,732; Aug. 9; Sp. p. 1921; Gaz. vol. 157; p. 325.
Sharpener, Tool-. A. Muehlmatt. No. 974,907; Nov. 8; Sp. p. 1876; Gaz. vol. 160; p. 310.
Sharpening and grinding tool. E. C. Hawkins. No. 950,914; Mar. 1; Sp. p. 948; Gaz. vol. 152; p. 151.
Sharpening and honing machine, Razor. G. D. Adamson. No. 972,979; Oct. 18; Sp. p. 3246; Gaz. vol. 159; p. 565.
Sharpening and setting device for scraper-blades. J. Miotke. No. 968,180; Aug. 23; Sp. p. 5013; Gaz. vol. 157; p. 864.
Sharpening apparatus, Disk-harrow-. P. Bender. No. 958,077; May 17; Sp. p. 3565; Gaz. vol. 154; p. 601.
Sharpening, Clamping device for holding cutter-bars for. A. B. Donaldson. No. 956,313; Apr. 26; Sp. p. 5704; Gaz. vol. 153; p. 993.
Sharpening device. E. Moser. No. 946,554; Jan. 18; Sp. p. 3467; Gaz. vol. 150; p. 583.
Sharpening device. G. P. Engelhard and M. C. Reinig. No. 948,134; Feb. 1; Sp. p. 728; Gaz. vol. 151; p. 120.
Sharpening device for blades of lawn-mower knives. W. F. Miller. No. 946,386; Jan. 11; Sp. p. 3115; Gaz. vol. 150; p. 501.
Sharpening device for lawn-mowers. P. D. Barber and F. B. McQueen. No. 977,363; Nov. 29; Sp. p. 7245; Gaz. vol. 160; p. 1229.
Sharpening device, Knife-. W. A. Jameson. No. 963,292; July 5; Sp. p. 668; Gaz. vol. 156; p. 94.
Sharpening device, Lawn-mower-. C. C. Rayl. No. 948,962; Feb. 8; Sp. p. 2478; Gaz. vol. 151; p. 422.
Sharpening device, Razor-. A. De Vivo. No. 977,172; Nov. 29; Sp. p. 6850; Gaz. vol. 160; p. 1163.
Sharpening device, Safety-razor-. R. W. Rosendahl. No. 967,977; Aug. 23; Sp. p. 4533; Gaz. vol. 157; p. 796.
Sharpening gravers or other tools, Holder for. M. J. Collins. No. 975,329; Nov. 8; Sp. p. 2817; Gaz. vol. 160; p. 455.
Sharpening implement. G. B. N. Dow. No. 950,530; Mar. 1; Sp. p. 146; Gaz. vol. 152; p. 24.
Sharpening machine, Blade-. F. P. Olds. No. 945,137; Jan. 4; Sp. p. 262; Gaz. vol. 150; p. 46.
Sharpening machine, Blade-. R. S. Green. No. 950,284; Feb. 22; Sp. p. 5319; Gaz. vol. 151; p. 932.
Sharpening machine, Blade-. F. P. Olds. No. 979,879; Dec. 27; Sp. p. 5334; Gaz. vol. 161; p. 923.
Sharpening machine, File-. C. M. Emerson. No. 945,924; Jan. 11; Sp. p. 2048; Gaz. vol. 150; p. 341.
Sharpening machine, Knife-. H. A. H. Guhl. No. 977,624; Dec. 6; Sp. p. 470; Gaz. vol. 161; p. 71.
Sharpening machine, Razor-. E. A. Conway. No. 948,369; Feb. 8; Sp. p. 1230; Gaz. vol. 151; p. 224.
Sharpening machine, Razor-. W. F. Rundel. No. 976,927; Nov. 29; Sp. p. 6278; Gaz. vol. 160; p. 1077.
Sharpening machine, Skate-. H. Roberts. No. 967,439; Aug. 16; Sp. p. 3428; Gaz. vol. 157; p. 591.
Sharpening saw-teeth, Machine for. N. J. Chambers. No. 953,895; Apr. 5; Sp. p. 418; Gaz. vol. 153; p. 76.
Sharpening-stones, Box for. E. B. Pike. No. 973,968; Oct. 25; Sp. p. 5343; Gaz. vol. 159; p. 929.
Sharpening the rotary circular knives of meat-slicing machines, Device for. W. A. Van Berkel. No. 947,606; Jan. 25; Sp. p. 5805; Gaz. vol. 150; p. 864.
Sharpening the rotary knives of skiving and similar machines, Machine for. G. A. Henderson. No. 959,136; May 24; Sp. p. 5903; Gaz. vol. 154; p. 988.
Shaving appliance. E. Praeger. No. 979,696; Dec. 27; Sp. p. 4910; Gaz. vol. 161; p. 861.
Shaving-appliance case. W. L. Clark. No. 970,797; Sept. 20; Sp. p. 3566; Gaz. vol. 158; p. 610.
Shaving-cup. J. Patronaggio. No. 955,679; Apr. 19; Sp. p. 4300; Gaz. vol. 153; p. 743.
Shaving-cup. C. Arnone. No. 970,779; Sept. 20; Sp. p. 3524; Gaz. vol. 158; p. 603.
Shaving-cup, Sanitary. W. H. J. Downey. No. 973,925; Oct. 25; Sp. p. 5268; Gaz. vol. 159; p. 914.
Shaving-mug. J. C. Dowd. No. 946,937; Jan. 18; Sp. p. 4333; Gaz. vol. 150; p. 712.
Shaving set. H. J. Gaisman. No. 953,948; Apr. 5; Sp. p. 521; Gaz. vol. 153; p. 95.
Shaving-stick holder. J. F. O'Byrne. No. 964,451; July 12; Sp. p. 3063; Gaz. vol. 156; p. 503.
Sheaf-carrier attachment. C. M. Hanna. No. 948,013; Feb. 1; Sp. p. 484; Gaz. vol. 151; p. 78.

Alphabetical list of inventions—Continued.

Shearing device. S. L. Harwood. No. 972,189; Oct. 11; Sp. p. 1479; Gaz. vol. 159; p. 263.
Shearing-machine. H. Haus. No. 961,495; June 14; Sp. p. 2597; Gaz. vol. 155; p. 453.
Shearing-machine. G. Knaus. No. 978,598; Dec. 13; Sp. p. 2570; Gaz. vol. 161; p. 438.
Shearing-machines, Electrically-controlled squaring mechanism for. E. Miles. No. 946,457; Jan. 11; Sp. p. 3268; Gaz. vol. 150; p. 525.
Shearing-tool. G. E. Pellissier. No. 958,972; May 24; Sp. p. 5565; Gaz. vol. 154; p. 935.
Shears: *See* Animal-shears; Ball-bearing shears; Comb-shears; Draw-cut shears; Perforating-shears; Pruning-shears; Rotary shears; Sheep-shears; Trimming-shears.
Shears. D. and D. C. Wheeler. No. 968,219; Aug. 23; Sp. p. 5090; Gaz. vol. 157; p. 877.
Shears. F. D. Davies. No. 975,515; Nov. 15; Sp. p. 3206; Gaz. vol. 160; p. 546.
Shears. J. W. Chauncey. No. 976,121; Nov. 15; Sp. p. 4439; Gaz. vol. 160; p. 752.
Shears and scissors. F. Meissner. No. 975,059; Nov. 8; Sp. p. 2227; Gaz. vol. 160; p. 363.
Shears for cutting iron. J. Bilcsik. No. 975,112; Nov. 8; Sp. p. 2349; Gaz. vol. 160; p. 382.
Shears-gage. J. L. Klindworth. No. 954,396; Apr. 5; Sp. p. 1479; Gaz. vol. 153; p. 246.
Shears, Gage attachment for. O. B. Cole and J. E. Wright. No. 959,464; May 31; Sp. p. 6579; Gaz. vol. 154; p. 1122.
Shears or scissors, Cushion for handles of. C. W. Tindall. No. 970,406; Sept. 13; Sp. p. 2674; Gaz. vol. 158; p. 452.
Shears, Tension device for. D. C. Wheeler. No. 949,166; Feb. 15; Sp. p. 2914; Gaz. vol. 151; p. 517.
Shears, Tension device for. G. M. Crider. No. 951,236; Mar. 8; Sp. p. 1557; Gaz. vol. 152; p. 280.
Shears, Tension device for. G. A. Parker. No. 953,705; Apr. 5; Sp. p. 47; Gaz. vol. 153; p. 11.
Sheathing, Metallic. L. J. Berg. No. 945,682; Jan. 4; Sp. p. 1444; Gaz. vol. 150; p. 225.
Sheave. M. Whitman. No. 973,092; Oct. 18; Sp. p. 3486; Gaz. vol. 159; p. 602.
Sheave-block. J. A. Lockfaw. No. 964,284; July 12; Sp. p. 2735; Gaz. vol. 156; p. 451.
Sheave, Safety-. W. D. Lockwood. No. 975,052; Nov. 8; Sp. p. 2217; Gaz. vol. 160; p. 360.
Shed for aerial vessels. J. Fechtig. No. 968,336; Aug. 23; Sp. p. 5335; Gaz. vol. 157; p. 919.
Shedding mechanism. R. Leveillee. No. 964,034; July 12; Sp. p. 2221; Gaz. vol. 156; p. 366.
Sheep-hook. J. A. Ross. No. 953,714; Apr. 5; Sp. p. 61; Gaz. vol. 153; p. 14.
Sheep-shearing machine. D. Lennox. No. 954,681; Apr. 12; Sp. p. 2116; Gaz. vol. 153; p. 371.
Sheep-shears. E. Ascue. No. 958,069; May 17; Sp. p. 3553; Gaz. vol. 154; p. 599.
Sheet-conveying machine. T. C. Dexter. No. 957,043; May 3; Sp. p. 1170; Gaz. vol. 154; p. 186.
Sheet-conveying machine. T. C. Dexter. No. 961,587; June 14; Sp. p. 2791; Gaz. vol. 155; p. 483.
Sheet-cutting machine. F. W. Stevens. No. 965,489; July 26; Sp. p. 5367; Gaz. vol. 156; p. 919.
Sheet-delivering apparatus. A. Collis. No. 973,259; Oct. 18; Sp. p. 3861; Gaz. vol. 159; p. 660.
Sheet-delivery. C. B. Maxson. No. 949,935; Feb. 22; Sp. p. 4541; Gaz. vol. 151; p. 811.
Sheet-delivery apparatus. C. Henderson. No. 973,428; Oct. 18; Sp. p. 4222; Gaz. vol. 159; p. 719.
Sheet-delivery mechanism. W. J. Main. No. 953,045; Mar. 29; Sp. p. 5286; Gaz. vol. 152; p. 974.
Sheet-delivery mechanism. E. W. Dean. No. 965,375; July 26; Sp. p. 5126; Gaz. vol. 156; p. 880.
Sheet-delivery mechanism, Variable-size-flat-. H. M. Barber. No. 970,366; Sept. 13; Sp. p. 2597; Gaz. vol. 158; p. 439.
Sheet-drying mechanism, Long-. R. Henderson. No. 966,398; Aug. 2; Sp. p. 1144; Gaz. vol. 157; p. 185.
Sheet-feeder. W. H. Smith. No. 951,973; Mar. 15; Sp. p. 3076; Gaz. vol. 152; p. 553.
Sheet-feeding apparatus. A. B. Dick. No. 960,514; June 7; Sp. p. 552; Gaz. vol. 155; p. 91.
Sheet-feeding apparatus. G. Spiess. No. 967,077; Aug. 9; Sp. p. 2687; Gaz. vol. 157; p. 441.
Sheet-feeding apparatus. A. B. Dick. No. 977,283; Nov. 29; Sp. p. 7062; Gaz. vol. 160; p. 1201.
Sheet-feeding apparatus. E. J. Brasseur. No. 979,822; Dec. 27; Sp. p. 5210; Gaz. vol. 161; p. 904.
Sheet-feeding device. P. Hartmann. No. 974,767; Nov. 1; Sp. p. 1558; Gaz. vol. 160; p. 240.
Sheet-feeding machine. F. L. Cross. No. 957,847; May 10; Sp. p. 2843; Gaz. vol. 154; p. 488.
Sheet-feeding machine. H. C. La Batt. No. 968,062; Aug. 23; Sp. p. 4724; Gaz. vol. 157; p. 824.
Sheet-feeding machine. R. E. and A. Kemper. No. 975,252; Nov. 8; Sp. p. 2658; Gaz. vol. 160; p. 429.
Sheet-feeding machines, Pile-elevator for. B. Gustafson. No. 954,732; Apr. 12; Sp. p. 2243; Gaz. vol. 153; p. 389.
Sheet-feeding mechanism. T. G. McGirr. No. 949,835; Feb. 22; Sp. p. 4297; Gaz. vol. 151; p. 775.
Sheet-feeding mechanism. A. B. Cowles. No. 976,640; Nov. 22; Sp. p. 5645; Gaz. vol. 160; p. 954.
Sheet-feeding mechanism. E. and E. K. Norton. No. 979,549; Dec. 27; Sp. p. 4601; Gaz. vol. 161; p. 810.
Sheet-folding machine. A. and H. G. Mutschler. No. 966,760; Aug. 9; Sp. p. 2020; Gaz. vol. 157; p. 336.
Sheet-folding mechanism. W. Spalckhaver. No. 955,367; Apr. 19; Sp. p. 3608; Gaz. vol. 153; p. 637.
Sheet-gathering machine. A. M. Price. No. 965,598; July 26; Sp. p. 5629; Gaz. vol. 156; p. 958.
Sheet holder, Loose-. J. C. Dawson. No. 955,325; Apr. 19; Sp. p. 3513; Gaz. vol. 153; p. 623.
Sheet-inserter. E. W. Edgerton. No. 980,081; Dec. 27; Sp. p. 5753; Gaz. vol. 161; p. 989.
Sheet-iron boxes and other tinned articles to render the same suitable for being detinned, Cleaning old tinned. K. Goldschmidt and J. Weber. (Reissue.) No. 13,123; June 28; Sp. p. 5833; Gaz. vol. 155; p. 1021.
Sheet-jogging machine. A. F. Roessle. No. 954,136; Apr. 5; Sp. p. 905; Gaz. vol. 153; p. 157.
Sheet-making machine. C. Barbieri. No. 968,109; Aug. 23; Sp. p. 4834; Gaz. vol. 157; p. 840.
Sheet-manipulating device. O. S. Beyer. No. 946,100; Jan. 11; Sp. p. 2405; Gaz. vol. 150; p. 400.
Sheet-manipulating machine. A. R. Pribil. No. 968,978; Aug. 30; Sp. p. 6686; Gaz. vol. 157; p. 1164.
Sheet material, Manufacture of compound. E. Kempshall. No. 964,524; July 19; Sp. p. 3247; Gaz. vol. 156; p. 560.
Sheet-metal articles, Machine for making. B. Adriance and A. Calleson. No. 947,273; Jan. 25; Sp. p. 5026; Gaz. vol. 150; p. 851.
Sheet-metal beading and flanging machine. W. A. Sylvester. No. 974,204; Nov. 1; Sp. p. 231; Gaz. vol. 160; p. 37.
Sheet-metal-bending machine. G. C. Frazier. No. 951,639; Mar. 8; Sp. p. 2388; Gaz. vol. 152; p. 413.
Sheet-metal blanks, Machine for shearing. W. A. Sylvester. No. 976,757; Nov. 22; Sp. p. 5886; Gaz. vol. 160; p. 994.
Sheet-metal box. C. T. Wootten and A. P. Richardson. No. 948,122; Feb. 1; Sp. p. 709; Gaz. vol. 151; p. 116.
Sheet-metal box. M. Kamenstein. No. 956,362; Apr. 26; Sp. p. 5805; Gaz. vol. 153; p. 1009.
Sheet-metal box. G. Klenk. No. 959,554; May 31; Sp. p. 6783; Gaz. vol. 154; p. 1154.
Sheet-metal box. A. E. Blackman. No. 963,352; July 5; Sp. p. 779; Gaz. vol. 156; p. 114.
Sheet-metal boxes, Machine for making. J. W. Denmead. No. 949,756; Feb. 22; Sp. p. 4130; Gaz. vol. 151; p. 747.
Sheet-metal building construction. J. B. Goodwin. No. 963,889; July 12; Sp. p. 1931; Gaz. vol. 156; p. 317.
Sheet-metal can. F. Westerbeck. No. 979,813; Dec. 27; Sp. p. 5197; Gaz. vol. 161; p. 901.
Sheet-metal can or box. F. Wattne. No. 955,445; Apr. 19; Sp. p. 3773; Gaz. vol. 153; p. 663.
Sheet-metal cap. C. H. Werner. No. 975,914; Nov. 15; Sp. p. 4048; Gaz. vol. 160; p. 682.
Sheet-metal-corrugating machine. J. J. Rigby. No. 948,551; Feb. 8; Sp. p. 1629; Gaz. vol. 151; p. 285.
Sheet-metal-corrugating machine. W. H. Cooley. No. 951,630; Mar. 8; Sp. p. 2368; Gaz. vol. 152; p. 410.
Sheet-metal-cutting machine. H. Hill. No. 960,014; May 31; Sp. p. 7786; Gaz. vol. 154; p. 1310.
Sheet-metal cutting or trimming machine. F. R. Eden. No. 957,942; May 17; Sp. p. 3074; Gaz. vol. 164; p. 551.
Sheet-metal-elbow machine. A. Dieckmann. No. 959,204; May 24; Sp. p. 6047; Gaz. vol. 154; p. 1011.
Sheet metal, Finishing galvanized. A. Niedringhaus. No. 946,459; Jan. 11; Sp. p. 3277; Gaz. vol. 150; p. 526.
Sheet-metal-folding machine. R. T. Withers. No. 954,556; Apr. 12; Sp. p. 1835; Gaz. vol. 153; p. 328.
Sheet-metal pipe. H. Birnbaum. No. 976,029; Nov. 15; Sp. p. 4248; Gaz. vol. 160; p. 720.
Sheet-metal plates and bands, Manufacture of. A. Schwieger. No. 962,058; June 21; Sp. p. 3789; Gaz. vol. 155; p. 665.
Sheet-metal sheets, Machine for trimming blanks for. J. H. Shiels. No. 945,347; Jan. 4; Sp. p. 748; Gaz. vol. 150; p. 115.
Sheet-metal tubes, Machine for making. H. Higgin. No. 966,916; Aug. 9; Sp. p. 2347; Gaz. vol. 157; p. 385.
Sheet-metal tubes, Machine for making. F. C. Wheeler. No. 977,150; Nov. 29; Sp. p. 6799; Gaz. vol. 160; p. 1155.
Sheet-metal vessel. W. J. Reuter. No. 957,901; May 17; Sp. p. 2973; Gaz. vol. 154; p. 537.
Sheet-metal vessel. W. J. Reuter and W. H. Hatz. No. 964,554; July 19; Sp. p. 3334; Gaz. vol. 156; p. 570.
Sheet-metal-working machine. F. W. Barry. No. 963,850; July 12; Sp. p. 1846; Gaz. vol. 156; p. 304.
Sheet or card lifter. C. L. Burdick. No. 954,927; Apr. 12; Sp. p. 2709; Gaz. vol. 153; p. 458.
Sheet or leaf holder. J. T. Hicks. No. 950,173; Feb. 22; Sp. p. 5086; Gaz. vol. 151; p. 893.
Sheet-register device. E. Cheshire. No. 964,756; July 19; Sp. p. 3851; Gaz. vol. 156; p. 641.
Sheet-registering, Automatic. H. A. W. Wood. No. 954,603; Apr. 12; Sp. p. 1938; Gaz. vol. 153; p. 344.
Sheet-registering device. L. E. Morrison. No. 970,256; Sept. 13; Sp. p. 2396; Gaz. vol. 158; p. 404.
Sheet-trimming and edge-folding machine. H. L. Leilich and J. P. Burger. No. 971,905; Oct. 4; Sp. p. 845; Gaz. vol. 159; p. 145.
Sheet-uniting implement. R. B. Reasoner. No. 966,598; Aug. 9; Sp. p. 1646; Gaz. vol. 157; p. 280.

Sheets, Apparatus for reheating and matching. C. W. Bray. No. 966,161; Aug. 2; Sp. p. 692; Gaz. vol. 157; p. 108.
Sheets, Making. C. Barbieri. No. 968,110; Aug. 23; Sp. p. 4838; Gaz. vol. 157; p. 840.
Sheets or wrappers from strips, Mechanism for cutting. H. Y. Armstrong. No. 978,535; Dec. 13; Sp. p. 2409; Gaz. vol. 161; p. 415.
Shelf. G. R. Earnest. No. 965,697; July 26; Sp. p. 5848; Gaz. vol. 156; p. 993.
Shelf-bracket, Adjustable. A. E. and G. B. Peterson. No. 945,138; Jan. 4; Sp. p. 263; Gaz. vol. 150; p. 46.
Shelf, Corner-. T. W. Hollander. No. 975,619; Nov. 15; Sp. p. 3426; Gaz. vol. 160; p. 581.
Shelf-covering. L. Gastram. No. 954,179; Apr. 5; Sp. p. 1022; Gaz. vol. 153; p. 174.
Shelf, Portable. W. J. Pointer and J. A. Ramsey. No. 978,059; Dec. 6; Sp. p. 1371; Gaz. vol. 161; p. 220.
Shelf-support. J. Knape. No. 951,134; Mar. 8; Sp. p. 1364; Gaz. vol. 152; p. 248.
Shelf-support. D. E. Hunter. No. 967,383; Aug. 16; Sp. p. 3308; Gaz. vol. 157; p. 573.
Shelf-support, Adjustable. B. M. Barron. No. 966,883; Aug. 9; Sp. p. 2281; Gaz. vol. 157; p. 374.
Shelving. C. E. Gerberich. No. 951,475; Mar. 8; Sp. p. 2065; Gaz. vol. 152; p. 358.
Shelving. L. E. Fricke. No. 966,002; Aug. 2; Sp. p. 338; Gaz. vol. 157; p. 55.
Shelving. B. L. Waters. No. 971,707; Oct. 4; Sp. p. 407; Gaz. vol. 159; p. 71.
Shelving. P. A. Lorenz. No. 975,053; Nov. 8; Sp. p. 2218; Gaz. vol. 160; p. 361.
Shelving for stock-rooms. G. T. McIntosh. No. 949,196; Feb. 15; Sp. p. 2972; Gaz. vol. 151; p. 527.
Shelving-locking device. L. M. Stearns. No. 949,288; Feb. 15; Sp. p. 3159; Gaz. vol. 151; p. 557.
Shell-extractor. J. H. Wheeler and W. D. Allen. No. 976,325; Nov. 22; Sp. p. 4959; Gaz. vol. 160; p. 845.
Shell for artillery. C. W. Gebauer. No. 965,809; July 26; Sp. p. 6080; Gaz. vol. 156; p. 1031.
Shell or lift-van, Collapsible. F. F. Hedden. No. 962,429; June 28; Sp. p. 4619; Gaz. vol. 155; p. 816.
Shells in shell-holders, Machine for assembling. H. Stillwell. No. 952,477; Mar. 22; Sp. p. 4073; Gaz. vol. 152; p. 753.
Shellac from stick-lac or the like, Obtaining pure. G. J. Fowler. No. 975,224; Nov. 8; Sp. p. 2601; Gaz. vol. 160; p. 420.
Shepherd's crook. M. L. Burch. No. 956,932; May 3; Sp. p. 934; Gaz. vol. 154; p. 149.
Shepherd's hook. H. E. Newman, Jr. No. 965,728; July 26; Sp. p. 5902; Gaz. vol. 156; p. 1003.
Shield: *See* Automobile wind-shield.
Shield. J. A. D'Andelet. No. 948,107; Feb. 1; Sp. p. 683; Gaz. vol. 151; p. 111.
Shield. W. Graves. No. 973,936; Oct. 25; Sp. p. 5287; Gaz. vol. 159; p. 918.
Shield, Chafing-. B. Hall. No. 956,341; Apr. 26; Sp. p. 5763; Gaz. vol. 153; p. 1002.
Shifting device. H. Drewell. No. 953,988; Apr. 5; Sp. p. 607; Gaz. vol. 153; p. 109.
Shim. E. G. Lindhe. No. 969,709; Sept. 6; Sp. p. 1171; Gaz. vol. 158; p. 190.
Shingle-band-making machine. J. E. MacMurray. No. 965,311; July 26; Sp. p. 4989; Gaz. vol. 156; p. 859.
Shingle-machine. H. M. Lofton. No. 950,672; Mar. 1; Sp. p. 444; Gaz. vol. 152; p. 72.
Shingle-machine. W. S. Hiett. No. 954,803; Apr. 12; Sp. p. 2425; Gaz. vol. 153; p. 414.
Shingle-machine, Upright band-saw. W. Moore. No. 972,562; Oct. 11; Sp. p. 2282; Gaz. vol. 159; p. 394.
Shingle, Metallic. J. Gruber. No. 954,796; Apr. 12; Sp. p. 2385; Gaz. vol. 153; p. 412.
Shingle, Metallic. H. M. Clemmer. No. 970,885; Sept. 20; Sp. p. 3734; Gaz. vol. 158; p. 638.
Shingle-mold. E. M. Walton. No. 974,002; Oct. 25; Sp. p. 5432; Gaz. vol. 159; p. 941.
Shingle, Roofing or siding. A. D. Bierman. No. 974,461; Nov. 1; Sp. p. 889; Gaz. vol. 160; p. 131.
Shingle-stamp, Automatic. G. A. Ortwein. No. 947,345; Jan. 25; Sp. p. 5211; Gaz. vol. 150; p. 877.
Shingles and slabs and the like, Machine for pressing. J. Baade. No. 965,359; July 26; Sp. p. 5103; Gaz. vol. 156; p. 875.
Shingles, Process and apparatus for making slag. H. A. Webster. No. 964,348; July 12; Sp. p. 2859; Gaz. vol. 156; p. 471.
Shingling and clapboard gage, Combination straight-edge C. H. Webster. No. 952,772; Mar. 22; Sp. p. 4738; Gaz. vol. 152; p. 854.
Shingling-bracket. F. L. Spring. No. 953,981; Apr. 5; Sp. p. 589; Gaz. vol. 153; p. 106.
Shingling-bracket. B. F. Carr. No. 965,078; July 19; Sp. p. 4506; Gaz. vol. 156; p. 750.
Shingling-hatchet gage. L. A. Sayre. No. 946,565; Jan. 18; Sp. p. 3485; Gaz. vol. 150; p. 586.
Ship and ship's hatch. J. R. Oldham. No. 956,152; Apr. 26; Sp. p. 5339; Gaz. vol. 153; p. 938.
Ship construction. A. L. Mooney. No. 950,860; Mar. 1; Sp. p. 846; Gaz. vol. 152; p. 135.
Ship construction. M. Wailgum, Jr. No. 972,042; Oct. 4; Sp. p. 1164; Gaz. vol. 159; p. 196.
Ship-detector. F. S. Long. No. 948,424; Feb. 8; Sp. p. 1356; Gaz. vol. 151; p. 242.
Ship-elevator apparatus. E. L. Burwell. No. 955,131; Apr. 19; Sp. p. 3098; Gaz. vol. 153; p. 556.
Ship elevator, cradle, and dock. E. L. Burwell. No. 955,130; Apr. 19; Sp. p. 3091; Gaz. vol. 153; p. 555.
Ship-hull cleaner. J. M. Towne and P. E. Gibson. No. 974,000; Oct. 25; Sp. p. 5429; Gaz. vol. 159; p. 941.
Ship-lock, Tubular inclined. P. Caminada. No. 955,317; Apr. 19; Sp. p. 3494; Gaz. vol. 153; p. 620.
Ship, Method of and means for removing ashes on board. E. Brouquière. No. 972,991; Oct. 18; Sp. p. 3271; Gaz. vol. 159; p. 569.
Ship-model testing. H. Wellenkamp. No. 978,090; Dec. 6; Sp. p. 1439; Gaz. vol. 161; p. 232.
Ship motion, Passenger device for equalizing. A. W. Thellsiefje. No. 961,911; June 21; Sp. p. 3473; Gaz. vol. 155; p. 615.
Ship or vessel. G. E. Elia. No. 966,813; Aug. 9; Sp. p. 2137; Gaz. vol. 157; p. 352.
Ship or vessel. C. J. F. M. Lilliehöök. No. 975,699; Nov. 15; Sp. p. 3604; Gaz. vol. 160; p. 608.
Ship-table. A. M. Gustafson. No. 959,004; May 24; Sp. p. 5625; Gaz. vol. 154; p. 945.
Ships and other places, Apparatus for discharging ashes, ballast-water, bilge-water, and other materials from. G. C. Ralston. No. 963,649; July 5; Sp. p. 1376; Gaz. vol. 156; p. 214.
Ships, Apparatus for indicating the speed of. R. Star. No. 955,008; Apr. 12; Sp. p. 2858; Gaz. vol. 153; p. 485.
Ships at sea, Apparatus for loading. C. M. Askegren. No. 973,906; Oct. 25; Sp. p. 5237; Gaz. vol. 159; p. 908.
Ships, Collision shock-absorber for. J. Patronaggio. No. 970,848; Sept. 20; Sp. p. 3672; Gaz. vol. 158; p. 627.
Ship's course-indicator. C. S. Burgon. No. 954,777; Apr. 12; Sp. p. 2347; Gaz. vol. 153; p. 405.
Ships' hulls and the like, Cleaner for. W. R. Macdonald. No. 952,455; Mar. 22; Sp. p. 4023; Gaz. vol. 152; p. 744.
Ships' hulls and the like, Cleaner for. W. R. Macdonald. No. 959,566; May 31; Sp. p. 6806; Gaz. vol. 154; p. 1158.
Ships, Means for damping the rolling motion of. H. Frahm. No. 970,368; Sept. 13; Sp. p. 2605; Gaz. vol. 158; p. 440.
Ships, Means for preventing the rolling of. H. Frahm. No. 968,927; Aug. 30; Sp. p. 6586; Gaz. vol. 157; p. 1147.
Ships, Means for unloading. M. J. Furlong. No. 957,878; May 17; Sp. p. 2924; Gaz. vol. 154; p. 529.
Ships or vessels, Transferring device for. F. Roeder. No. 954,135; Apr. 5; Sp. p. 904; Gaz. vol. 153; p. 157.
Ships' positions, Means for locating. W. J. Smith. No. 964,456; July 12; Sp. p. 3071; Gaz. vol. 156; p. 504.
Ships' riggings to chain-plates, Turnbuckle-center for attaching. C. W. Clattenburg. No. 953,896; Apr. 5; Sp. p. 422; Gaz. vol. 153; p. 77.
Ships, Safety appliance for. C. Fugazzi. No. 972,180; Oct. 11; Sp. p. 1454; Gaz. vol. 159; p. 260.
Ships, Skylight and ventilating construction for. J. Crates. No. 957,846; May 10; Sp. p. 2842; Gaz. vol. 154; p. 487.
Ship's towing system. R. Koss. No. 955,412; Apr. 19; Sp. p. 3712; Gaz. vol. 153; p. 652.
Shipping and display box for food products. J. J. Lynch. No. 971,060; Sept. 27; Sp. p. 4092; Gaz. vol. 158; p. 724.
Shipping box and crate, Folding. W. E. and C. J. Grazer. No. 969,751; Sept. 6; Sp. p. 1290; Gaz. vol. 158; p. 206.
Shipping-box, Collapsible. L. D. Fowler. No. 945,228; Jan. 4; Sp. p. 463; Gaz. vol. 150; p. 76.
Shipping box, Fruit-. F. W. Dustan. No. 960,288; June 7; Sp. p. 97; Gaz. vol. 155; p. 19.
Shipping box or case. C. Fassnacht. No. 945,383; Jan. 4; Sp. p. 818; Gaz. vol. 150; p. 127.
Shipping-can. G. H. Peck. No. 968,971; Aug. 30; Sp. p. 6667; Gaz. vol. 157; p. 1161.
Shipping-case. M. Shepard. No. 955,705; Apr. 19; Sp. p. 4358; Gaz. vol. 153; p. 752.
Shipping-case. E. Walch. No. 959,823; May 31; Sp. p. 7338; Gaz. vol. 154; p. 1243.
Shipping-case. C. O. Wright. No. 973,607; Oct. 25; Sp. p. 4612; Gaz. vol. 159; p. 802.
Shipping-case, Interchangeable. N. J. Busby. No. 948,951; Feb. 8; Sp. p. 2462; Gaz. vol. 151; p. 418.
Shipping case or box. T. T. Copeland. No. 947,886; Feb. 1; Sp. p. 235; Gaz. vol. 151; p. 38.
Shipping-case-strapping machine. W. F. Thompson. No. 977,487; Dec. 6; Sp. p. 134; Gaz. vol. 161; p. 23.
Shipping-package. H. N. Mann. No. 955,525; Apr. 19; Sp. p. 3942; Gaz. vol. 153; p. 692.
Shipping-receptacle. F. I. Lamasney and F. H. Pierce. No. 956,810; May 3; Sp. p. 672; Gaz. vol. 154; p. 106.
Shirt. C. W. T. Davies. No. 947,434; Jan. 25; Sp. p. 5408; Gaz. vol. 150; p. 906.
Shirt. N. H. Rankin. No. 953,974; Apr. 5; Sp. p. 571; Gaz. vol. 153; p. 103.
Shirt. B. Rosen. No. 959,611; May 31; Sp. p. 6892; Gaz. vol. 154; p. 1173.
Shirt. E. S. Judge. No. 966,336; Aug. 2; Sp. p. 1028; Gaz. vol. 157; p. 165.
Shirt. R. C. Goff. No. 967,182; Aug. 16; Sp. p. 2909; Gaz. vol. 157; p. 504.

Alphabetical list of inventions—Continued.

Shirt, Blouse-. C. K. Ruebe. No. 946,400; Jan. 11; Sp. p. 3143; Gaz. vol. 150; p. 506.
Shirt, Combined athletic. W. T. Anderson. No. 948,199; Feb. 1; Sp. p. 854; Gaz. vol. 151; p. 140.
Shirt holder and protector. E. W. Glauber. No. 947,302; Jan. 25; Sp. p. 5099; Gaz. vol. 150; p. 861.
Shirt-sleeve. A. Paradis. No. 945,980; Jan. 11; Sp. p. 2167; Gaz. vol. 150; p. 361.
Shirt-sleeve. L. L. Moore. No. 974,692; Nov. 1; Sp. p. 1391; Gaz. vol. 160; p. 216.
Shirt, Sweat-. J. W. Jordan. No. 962,900; June 28; Sp. p. 5598; Gaz. vol. 155; p. 980.
Shirt, Swimming-. W. T. Anderson. No. 959,441; May 31; Sp. p. 6509; Gaz. vol. 154; p. 1115.
Shirt-waist holder. I. L. McFadden. No. 946,641; Jan. 18; Sp. p. 3648; Gaz. vol. 150; p. 611.
Shoal-water indicator. F. E. Forster. No. 966,817; Aug. 9; Sp. p. 2146; Gaz. vol. 157; p. 354.
Shock-absorber. J. H. Olten. No. 945,190; Jan. 4; Sp. p. 375; Gaz. vol. 150; p. 63.
Shock-absorber. E. C. Wilcox and B. L. Lawton. No. 947,477; Jan. 25; Sp. p. 5531; Gaz. vol. 150; p. 920.
Shock-absorber. W. B. Knapp. No. 949,654; Feb. 15; Sp. p. 3901; Gaz. vol. 151; p. 680.
Shock-absorber. R. G. Mueller. No. 949,833; Feb. 22; Sp. p. 4293; Gaz. vol. 151; p. 774.
Shock-absorber. J. H. Gibson. No. 951,070; Mar. 1; Sp. p. 1228; Gaz. vol. 152; p. 202.
Shock-absorber. F. W. Merritt. No. 951,376; Mar. 8; Sp. p. 1863; Gaz. vol. 152; p. 325.
Shock-absorber. R. Lépine. No. 954,526; Apr. 12; Sp. p. 1773; Gaz. vol. 153; p. 318.
Shock-absorber. C. Swan. No. 963,094; July 5; Sp. p. 158; Gaz. vol. 156; p. 24.
Shock-absorber. G. W. Bolton, Jr. No. 964,201; July 12; Sp. p. 2555; Gaz. vol. 156; p. 421.
Shock-absorber. D. B. Akard. No. 966,290; Aug. 2; Sp. p. 946; Gaz. vol. 157; p. 150.
Shock-absorber. N. St. Francis. No. 966,868; Aug. 9; Sp. p. 2244; Gaz. vol. 157; p. 369.
Shock-absorber. C. Wilson. No. 967,285; Aug. 16; Sp. p. 3105; Gaz. vol. 157; p. 538.
Shock-absorber. A. Ellsworth. No. 968,753; Aug. 30; Sp. p. 6235; Gaz. vol. 157; p. 1090.
Shock-absorber. A. M. Gray. No. 969,052; Aug. 30; Sp. p. 6830; Gaz. vol. 157; p. 1190.
Shock-absorber. J. H. Sager. No. 970,647; Sept. 20; Sp. p. 3230; Gaz. vol. 158; p. 556.
Shock-absorber. E. Prouty. No. 971,636; Oct. 4; Sp. p. 267; Gaz. vol. 159; p. 48.
Shock-absorber. J. H. Sager. No. 973,217; Oct. 18; Sp. p. 3786; Gaz. vol. 159; p. 647.
Shock-absorber. C. F. Rodin. No. 974,709; Nov. 1; Sp. p. 1437; Gaz. vol. 160; p. 221.
Shock-absorber. W. A. Johnson. No. 975,249; Nov. 8; Sp. p. 2653; Gaz. vol. 160; p. 428.
Shock-absorber hanger. E. Flentje. (Reissue.) No. 13,148; Aug. 30; Sp. p. 7038; Gaz. vol. 157; p. 1224.
Shock-absorber, Pneumatic. A. Mans. No. 963,606; July 5; Sp. p. 1294; Gaz. vol. 156; p. 199.
Shock and hay loader. J. Cocking. No. 948,006; Feb. 1; Sp. p. 469; Gaz. vol. 151; p. 76.
Shock-compressor. C. K. Wolf and F. McClain. No. 979,118; Dec. 20; Sp. p. 3702; Gaz. vol. 161; p. 641.
Shock-conveying machine. G. M. Clagett. No. 970,304; Sept. 13; Sp. p. 2485; Gaz. vol. 158; p. 419.
Shock-handling device. A. Engelhardt. No. 965,092; July 19; Sp. p. 4533; Gaz. vol. 156; p. 755.
Shock-lifter. A. N. Hadley. (Reissue.) No. 13,187; Dec. 27; Sp. p. 6010; Gaz. vol. 161; p. 1023.
Shock-loader. J. B. Schuman. No. 948,380; Feb. 8; Sp. p. 1266; Gaz. vol. 151; p. 228.
Shock-loader. F. Burk. No. 958,090; May 17; Sp. p. 3590; Gaz. vol. 154; p. 605.
Shock-loader. F. Balch. No. 974,014; Oct. 25; Sp. p. 5457; Gaz. vol. 159; p. 946.
Shock-loader for grain and hay. B. F. Wilson. No. 980,038; Dec. 27; Sp. p. 5665; Gaz. vol. 161; p. 976.
Shocking device, Hand. H. Ferris. No. 964,009; July 12; Sp. p. 2177; Gaz. vol. 156; p. 356.
Shocking-machine. A. E. Watt and S. Fielding. No. 964,073; July 12; Sp. p. 2301; Gaz. vol. 156; p. 379.
Shoe. H. McMaster. No. 948,338; Feb. 8; Sp. p. 1160; Gaz. vol. 151; p. 213.
Shoe. A. Schlesinger. No. 952,083; Mar. 15; Sp. p. 3283; Gaz. vol. 152; p. 591.
Shoe. W. Beck. No. 956,271; Apr. 26; Sp. p. 5611; Gaz. vol. 153; p. 979.
Shoe. I. Bernat, C. Ross, and A. Bernat. No. 964,482; July 19; Sp. p. 3137; Gaz. vol. 156; p. 546.
Shoe. A. H. Prenzel. No. 967,053; Aug. 9; Sp. p. 2635; Gaz. vol. 157; p. 433.
Shoe. J. N. Schwander. No. 967,572; Aug. 16; Sp. p. 3704; Gaz. vol. 157; p. 637.
Shoe. A. Yandoli. No. 968,020; Aug. 23; Sp. p. 4636; Gaz. vol. 157; p. 809.
Shoe. J. Kruckewitt. No. 968,571; Aug. 30; Sp. p. 5829; Gaz. vol. 157; p. 1027.
Shoe. A. Lutz. No. 968,964; Aug. 30; Sp. p. 6658; Gaz. vol. 157; p. 1160.
Shoe. E. F. Raymond. No. 970,393; Sept. 13; Sp. p. 2654; Gaz. vol. 158; p. 448.
Shoe. R. Helbig. No. 970,444; Sept. 13; Sp. p. 2760; Gaz. vol. 158; p. 464.
Shoe. E. Anderson. No. 974,010; Oct. 25; Sp. p. 5451; Gaz. vol. 159; p. 944.
Shoe. A. F. S. Lyons. No. 977,890; Dec. 6; Sp. p. 1023; Gaz. vol. 161; p. 162.
Shoe and boot. M. Mannesmann. No. 963,605; July 5; Sp. p. 1293; Gaz. vol. 156; p. 199.
Shoe attachment. J. E. Watkins. No. 966,066; Aug. 2; Sp. p. 483; Gaz. vol. 157; p. 78.
Shoe-bottom filler. A. Thoma. No. 945,294; Jan. 4; Sp. p. 626; Gaz. vol. 150; p. 98.
Shoe-calk attachment. A. Roth, Jr. No. 956,177; Apr. 26; Sp. p. 5397; Gaz. vol. 153; p. 947.
Shoe-cleaner. E. L. Dahlfues. No. 955,769; Apr. 19; Sp. p. 4486; Gaz. vol. 153; p. 774.
Shoe-cleaner. G. Narance. No. 959,580; May 31; Sp. p. 6828; Gaz. vol. 154; p. 1162.
Shoe-cleaner. A. Edelman. No. 960,290; June 7; Sp. p. 101; Gaz. vol. 155; p. 20.
Shoe-cleaner. C. K. Haw and J. K. Southee. No. 977,091; Nov. 29; Sp. p. 6661; Gaz. vol. 160; p. 1134.
Shoe cleaning and polishing device. J. Elmer. No. 951,389; Mar. 8; Sp. p. 1888; Gaz. vol. 152; p. 329.
Shoe-cleaning device. M. Benn. No. 965,363; July 26; Sp. p. 5110; Gaz. vol. 156; p. 877.
Shoe-cleaning device. M. B. Seaman and G. Cohen. No. 972,474; Oct. 11; Sp. p. 2076; Gaz. vol. 159; p. 361.
Shoe-cleaning machine. G. Geraldson. No. 965,176; July 26; Sp. p. 4702; Gaz. vol. 156; p. 813.
Shoe, Collapsible. E. Probst. No. 958,534; May 17; Sp. p. 4628; Gaz. vol. 154; p. 760.
Shoe, Combination-. J. D. Moore. No. 978,188; Dec. 13; Sp. p. 1678; Gaz. vol. 161; p. 295.
Shoe-creasing machine. S. F. Van Pelt. No. 974,214; Nov. 1; Sp. p. 251; Gaz. vol. 160; p. 41.
Shoe, Cushion-. J. A. Kelly. No. 950,265; Feb. 22; Sp. p. 5280; Gaz. vol. 151; p. 926.
Shoe cushion and ventilator, Arch-support. P. Hammer. No. 951,605; Mar. 8; Sp. p. 2310; Gaz. vol. 152; p. 401.
Shoe-fastener. W. H. Harris. No. 954,390; Apr. 5; Sp. p. 1467; Gaz. vol. 153; p. 244.
Shoe-fastening. C. M. Perkins. No. 965,930; Aug. 2; Sp. p. 171; Gaz. vol. 157; p. 29.
Shoe-fastening. Z. Tanihara. No. 977,982; Dec. 6; Sp. p. 1213; Gaz. vol. 161; p. 195.
Shoe-fastening device. O. Nelson. No. 950,862; Mar. 1; Sp. p. 851; Gaz. vol. 152; p. 136.
Shoe-fastening device. W. H. Harris. No. 960,545; June 7; Sp. p. 631; Gaz. vol. 155; p. 102.
Shoe-filler apparatus. A. Thoma. No. 957,393; May 10; Sp. p. 1928; Gaz. vol. 154; p. 335.
Shoe-finishing machines, Leather-compressing mechanism for. H. B. Bornside. No. 956,565; May 3; Sp. p. 119; Gaz. vol. 154; p. 22.
Shoe for walking on water. L. Risso. No. 974,520; Nov. 1; Sp. p. 1027; Gaz. vol. 160; p. 153.
Shoe-form. R. W. Strachan. No. 964,132; July 12; Sp. p. 2434; Gaz. vol. 156; p. 399.
Shoe-form. W. S. Lougee. No. 967,795; Aug. 16; Sp. p. 4150; Gaz. vol. 157; p. 711.
Shoe-form. C. B. Kosters. No. 969,165; Sept. 6; Sp. p. 32; Gaz. vol. 158; p. 8.
Shoe-form inserter. E. E. Durand. No. 960,518; June 7; Sp. p. 563; Gaz. vol. 155; p. 93.
Shoe-holder. L. Sonntag. No. 954,828; Apr. 12; Sp. p. 2483; Gaz. vol. 153; p. 423.
Shoe-horn and button-hook, Combined. L. Davidoff. No. 966,172; Aug. 2; Sp. p. 713; Gaz. vol. 157; p. 112.
Shoe-horn and button-hook, Combined. L. Davidoff. No. 969,944; Sept. 13; Sp. p. 1729; Gaz. vol. 158; p. 297.
Shoe-horn and button-hook, Combined. L. Davidoff. No. 969,945; Sept. 13; Sp. p. 1730; Gaz. vol. 158; p. 297.
Shoe-jack. T. G. Plant. No. 958,278; May 17; Sp. p. 3970; Gaz. vol. 154; p. 669.
Shoe-jack. T. G. Plant. No. 958,301; May 17; Sp. p. 4122; Gaz. vol. 154; p. 679.
Shoe-jack, Automatic rotary. P. R. Glass. No. 957,950; May 17; Sp. p. 3102; Gaz. vol. 154; p. 554.
Shoe-machine. A. H. Prenzel. No. 959,256; May 24; Sp. p. 6153; Gaz. vol. 154; p. 1028.
Shoe-machine jack. E. E. Winkley. No. 961,747; June 14; Sp. p. 3109; Gaz. vol. 155; p. 537.
Shoe-machine jack. E. A. Stiggins. No. 974,202; Nov. 1; Sp. p. 218; Gaz. vol. 160; p. 36.
Shoe-machines, Work-feeding and work-guiding mechanism for. A. A. Wadsworth and F. Shortland. No. 945,064; Jan. 4; Sp. p. 119; Gaz. vol. 150; p. 20.
Shoe or sandal, Steel. J. F. McDonnell. No. 946,846; Jan. 18; Sp. p. 4117; Gaz. vol. 150; p. 681.
Shoe parts, Machine for recessing. A. H. Prenzel. No. 959,386; May 24; Sp. p. 6405; Gaz. vol. 154; p. 1071.
Shoe plate, Safety base-ball-. E. Kinzel. No. 972,540; Oct. 11; Sp. p. 2236; Gaz. vol. 159; p. 386.
Shoe-polishing device. I. H. Cooper. No. 958,724; May 24; Sp. p. 5005; Gaz. vol. 154; p. 847.
Shoe-polishing device. C. H. Cochran. No. 960,506; June 7; Sp. p. 542; Gaz. vol. 155; p. 89.

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Shoe-polishing foot-rest. R. Young. No. 974,847; Nov. 8; Sp. p. 1736; Gaz. vol. 160; p. 290.
Shoe-polishing machine. G. C. La Mountain. No. 947,415; Jan. 25; Sp. p. 5370; Gaz. vol. 150; p. 900.
Shoe-polishing machine. H. R. Oliver and G. P. Ohlgart. No. 953,919; Apr. 5; Sp. p. 464; Gaz. vol. 153; p. 85.
Shoe-polishing machine. D. L. Hudson. No. 958,400; May 17; Sp. p. 4369; Gaz. vol. 154; p. 713.
Shoe-polishing machine. L. I. Minato. No. 974,585; Nov. 1; Sp. p. 1169; Gaz. vol. 160; p. 177.
Shoe-polishing stand. A. Hoffman. No. 955,069; Apr. 12; Sp. p. 2973; Gaz. vol. 153; p. 504.
Shoe-polishing stand. F. H. G. Morse. No. 979,543; Dec. 27; Sp. p. 4583; Gaz. vol. 161; p. 807.
Shoe-protector. M. Rasmussen. No. 951,336; Mar. 8; Sp. p. 1772; Gaz. vol. 152; p. 312.
Shoe quarter, lining, pull-strap, and extension double back-stay, Combination. J. Mitchell. No. 962,650; June 28; Sp. p. 5097; Gaz. vol. 155; p. 891.
Shoe-rack. I. D. Fellows. No. 953,130; Mar. 29; Sp. p. 5493; Gaz. vol. 152; p. 1002.
Shoe-rack. B. H. Birchall. No. 957,839; May 10; Sp. p. 2827; Gaz. vol. 154; p. 485.
Shoe-rands, Manufacturing. W. L. French. No. 951,108; Mar. 8; Sp. p. 1309; Gaz. vol. 152; p. 240.
Shoe, Running-. W. Lawlor. No. 955,337; Apr. 19; Sp. p. 3551; Gaz. vol. 153; p. 628.
Shoe-shank. J. S. Busky. No. 966,794; Aug. 9; Sp. p. 2083; Gaz. vol. 157; p. 346.
Shoe-shank-shaping machine. A. A. McIntyre. No. 967,036; Aug. 9; Sp. p. 2602; Gaz. vol. 157; p. 427.
Shoe-shiner. P. W. Noonan. No. 945,580; Jan. 4; Sp. p. 1237; Gaz. vol. 150; p. 192.
Shoe-shiner. C. F. Powell. No. 968,191; Aug. 23; Sp. p. 5031; Gaz. vol. 157; p. 867.
Shoe-shining chair. J. Silverman. No. 967,452; Aug. 16; Sp. p. 3454; Gaz. vol. 157; p. 595.
Shoe, Soft-sole. T. J. Aldridge. No. 979,240; Dec. 20; Sp. p. 3974; Gaz. vol. 161; p. 684.
Shoe-straightener. A. R. Green. No. 978,286; Dec. 13; Sp. p. 1889; Gaz. vol. 161; p. 331.
Shoe-stretcher. J. C. Grison. No. 946,124; Jan. 11; Sp. p. 2448; Gaz. vol. 150; p. 408.
Shoe-stretcher. E. G. Allen. No. 955,449; Apr. 19; Sp. p. 3780; Gaz. vol. 153; p. 664.
Shoe-stretcher. T. J. Aldridge and M. A. Reilly. No. 960,477; June 7; Sp. p. 472; Gaz. vol. 155; p. 79.
Shoe-stretcher. D. P. Rowland. No. 979,705; Dec. 27; Sp. p. 4927; Gaz. vol. 161; p. 864.
Shoe-supporting jack. J. J. Heys. No. 966,441; Aug. 9; Sp. p. 1250; Gaz. vol. 157; p. 226.
Shoe-supporting jack. L. G. Freeman. No. 977,180; Nov. 29; Sp. p. 6868; Gaz. vol. 160; p. 1166.
Shoe-supporting rack. G. T. McLeod. No. 957,988; May 17; Sp. p. 3237; Gaz. vol. 154; p. 568.
Shoe-tie. D. W. Conard. No. 972,062; Oct. 4; Sp. p. 1202; Gaz. vol. 159; p. 203.
Shoe tongue, Laced-. L. A. Wirthlin. No. 972,427; Oct. 11; Sp. p. 1972; Gaz. vol. 159; p. 346.
Shoe-tree. C. B. Kosters. No. 947,387; Jan. 25; Sp. p. 5301; Gaz. vol. 150; p. 891.
Shoe-tree. J. S. Hansen. No. 963,370; July 5; Sp. p. 815; Gaz. vol. 156; p. 120.
Shoe-tree. J. G. McNair. No. 971,210; Sept. 27; Sp. p. 4418; Gaz. vol. 158; p. 774.
Shoe-tree. D. J. Markey. No. 971,622; Oct. 4; Sp. p. 244; Gaz. vol. 159; p. 43.
Shoe-tree. I. W. Litchfield. No. 976,194; Nov. 22; Sp. p. 4645; Gaz. vol. 160; p. 799.
Shoe tree and stretcher. C. A. Johnson. No. 953,747; Apr. 5; Sp. p. 130; Gaz. vol. 153; p. 25.
Shoe-tree, External. H. Stone. No. 947,951; Feb. 1; Sp. p. 361; Gaz. vol. 151; p. 58.
Shoe-trimming machine. W. B. Keighley. No. 959,224; May 24; Sp. p. 6088; Gaz. vol. 154; p. 1018.
Shoe-turning machines, Form for. A. Eppler. No. 973,182; Oct. 18; Sp. p. 3720; Gaz. vol. 159; p. 635.
Shoe-uppers by means of wire, Apparatus employed for fastening. J. Cavanagh, Jr. No. 965,438; July 26; Sp. p. 5266; Gaz. vol. 156; p. 901.
Shoe-vamp protective guard. A. J. Foley and T. Crowley. No. 948,419; Feb. 8; Sp. p. 1346; Gaz. vol. 151; p. 241.
Shoe-ventilator. C. Koch. No. 950,333; Feb. 22; Sp. p. 5408; Gaz. vol. 151; p. 948.
Shoes, Corset for. S. Azzara. No. 975,820; Nov. 15; Sp. p. 3847; Gaz. vol. 160; p. 648.
Shoes, corsets, &c., Fastening for. W. F. McDade. No. 963,799; July 12; Sp. p. 1720; Gaz. vol. 156; p. 287.
Shoes, Making. A. H. Prenzel. No. 960,234; May 31; Sp. p. 8235; Gaz. vol. 154; p. 1386.
Shoes, Resilient tread and reinforcing-spring for. J. H. Curley. No. 952,609; Mar. 22; Sp. p. 4372; Gaz. vol. 152; p. 798.
Shoes, sandals, and the like, Making. A. B. Eastwood. No. 948,300; Feb. 1; Sp. p. 1079; Gaz. vol. 151; p. 175.
Shoring. J. R. Wemlinger. No. 975,665; Nov. 15; Sp. p. 3554; Gaz. vol. 160; p. 598.
Short-weft fabric and making the same. D. F. Lucier. No. 957,356; May 10; Sp. p. 1857; Gaz. vol. 154; p. 323.
Shotgun attachment. D. E. Devol. No. 966,889; Aug. 9; Sp. p. 2294; Gaz. vol. 157; p. 376.
Shotgun attachment. O. E. Michaud. No. 968,583; Aug. 30; Sp. p. 5849; Gaz. vol. 157; p. 1031.
Shotguns, Device for locking the breech-blocks of repeating. F. Hardy. No. 946,999; Jan. 18; Sp. p. 4450; Gaz. vol. 150; p. 733.
Shoulder-brace. A. Roland. No. 945,139; Jan. 4; Sp. p. 264; Gaz. vol. 150; p. 46.
Shoulder-brace. J. J. Schilderink. No. 945,200; Jan. 4; Sp. p. 406; Gaz. vol. 150; p. 67.
Shoulder-brace. E. Nesbitt. No. 945,858; Jan. 11; Sp. p. 1906; Gaz. vol. 150; p. 317.
Shoulder-protector. C. G. Murk. No. 978,620; Dec. 13; Sp. p. 2617; Gaz. vol. 161; p. 446.
Shoulder resistance-pad. D. F. Brown and W. E. Chenery. No. 978,821; Dec. 13; Sp. p. 3007; Gaz. vol. 161; p. 510.
Shovel: *See* Ash-shovel; Cultivating-shovel; Cultivator-shovel; Excavating-shovel; Lawn-trimming shovel; Plow-shovel; Sifting-shovel; Steel shovel.
Shovel. H. J. Tiedt. No. 967,270; Aug. 16; Sp. p. 3081; Gaz. vol. 157; p. 533.
Shovel. B. C. Olmsted. No. 969,975; Sept. 13; Sp. p. 1802; Gaz. vol. 158; p. 306.
Shovel and coal-receptacle, Combination. N. R. Middleton. No. 947,452; Jan. 25; Sp. p. 5449; Gaz. vol. 150; p. 911.
Shovel and like tool handle. C. Jones. No. 967,197; Aug. 16; Sp. p. 2945; Gaz. vol. 157; p. 509.
Shovel and scoop, Combined. A. F. Hammerschmidt. No. 956,961; May 3; Sp. p. 1014; Gaz. vol. 154; p. 159.
Shovel and sifter, Combined. L. H. Chamberlin. No. 945,754; Jan. 11; Sp. p. 1659; Gaz. vol. 150; p. 279.
Shovel and truck, Combined. A. J. Compton. No. 961,843; June 21; Sp. p. 3326; Gaz. vol. 155; p. 591.
Shovel attachment. G. J. Walsh. No. 953,245; Mar. 29; Sp. p. 5738; Gaz. vol. 152; p. 1040.
Shovel bolster, Steam-. W. Sheppard. No. 947,356; Jan. 25; Sp. p. 5232; Gaz. vol. 150; p. 881.
Shovel-handles, Machine for making. A. R. Feistel. No. 964,008; July 12; Sp. p. 2176; Gaz. vol. 156; p. 356.
Shovels and the like, Power mechanism for grain-. M. W. Talen. No. 946,621; Jan. 18; Sp. p. 3606; Gaz. vol. 150; p. 605.
Shovels, Dipper-trip for steam-. J. L. Watson. No. 978,984; Dec. 6; Sp. p. 1426; Gaz. vol. 161; p. 230.
Shovels, Dipper-trip for steam-. A. H. Geddes. No. 978,575; Dec. 13; Sp. p. 2522; Gaz. vol. 161; p. 430.
Shovels, Shoe-protector for. J. A. Roland and H. M. Westerberg. No. 952,140; Mar. 15; Sp. p. 3396; Gaz. vol. 152; p. 611.
Shovels, spades, forks, and the like, Handle for. B. Buzzard. No. 945,691; Jan. 4; Sp. p. 1459; Gaz. vol. 150; p. 228.
Shoveling-board. A. B. and M. A. Clippinger. No. 961,482; June 14; Sp. p. 2563; Gaz. vol. 155; p. 448.
Shoveling-machine. C. L. Glass. No. 971,036; Sept. 27; Sp. p. 4044; Gaz. vol. 158; p. 716.
Show-case. J. M. Waddell. No. 946,626; Jan. 18; Sp. p. 3617; Gaz. vol. 150; p. 607.
Show-case. C. H. Soucek and F. E. Ustynik. No. 951,344; Mar. 8; Sp. p. 1792; Gaz. vol. 152; p. 315.
Show-case. A. Reinle. No. 952,945; Mar. 22; Sp. p. 5084; Gaz. vol. 152; p. 913.
Show-case. H. Hermann. No. 953,615; Mar. 29; Sp. p. 6533; Gaz. vol. 152; p. 1167.
Show-case. C. J. Johnson. No. 961,137; June 14; Sp. p. 1806; Gaz. vol. 155; p. 328.
Show-case. A. Anderson. No. 962,544; June 28; Sp. p. 4875; Gaz. vol. 155; p. 856.
Show-case. O. J. Marsh and W. F. Heiss. No. 962,777; June 28; Sp. p. 5361; Gaz. vol. 155; p. 937.
Show-case. H. C. Wallace. No. 962,933; June 28; Sp. p. 5655; Gaz. vol. 155; p. 990.
Show-case. A. J. Blyth. No. 964,952; July 19; Sp. p. 4247; Gaz. vol. 156; p. 709.
Show-case. D. A. Huffman. No. 966,019; Aug. 2; Sp. p. 381; Gaz. vol. 157; p. 60.
Show-case. J. A. Rotherham. No. 978,215; Dec. 13; Sp. p. 1730; Gaz. vol. 161; p. 304.
Show-case, Cabinet. J. G. Bradford and P. Meeting. No. 946,004; Jan. 11; Sp. p. 2216; Gaz. vol. 150; p. 368.
Show-case corner-fastening, Glass-. C. M. Mortensen. No. 952,834; Mar. 22; Sp. p. 4866; Gaz. vol. 152; p. 876.
Show-case for umbrellas, canes, and the like. A. A. Grau. No. 953,331; Mar. 29; Sp. p. 5915; Gaz. vol. 152; p. 1068.
Show-case lock. L. H. Schmidt. No. 957,803; May 10; Sp. p. 2764; Gaz. vol. 154; p. 474.
Show-case, show-window, and the like. C. M. Conley. No. 946,016; Jan. 11; Sp. p. 2239; Gaz. vol. 150; p. 372.
Show-window or store-front. D. J. Murnane. No. 975,150; Nov. 8; Sp. p. 2425; Gaz. vol. 160; p. 394.
Show-window, show-case, and the like. C. M. Conley. No. 948,990; Feb. 15; Sp. p. 2550; Gaz. vol. 151; p. 459.
Shredding-machines, Cage for. M. F. Williams. No. 953,111; Mar. 29; Sp. p. 5453; Gaz. vol. 152; p. 996.
Shutter. M. Klaiber. No. 947,471; Jan. 25; Sp. p. 5489; Gaz. vol. 150; p. 917.
Shutter and ventilator. W. P. Rylander. No. 949,600; Feb. 15; Sp. p. 3800; Gaz. vol. 151; p. 661.
Shutter and ventilator, Combined window. H. Boddington. No. 952,300; Mar. 15; Sp. p. 3714; Gaz. vol. 152; p. 664.

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Shutter-bower. F. E. Humphrey and F. H. Patrick. No. 956,766; May 3; Sp. p. 574; Gaz. vol. 154; p. 91.
Shutter-clamping device. W. Kyler. No. 975,538; Nov. 15; Sp. p. 3268; Gaz. vol. 160; p. 555.
Shutter-fastener. E. L. Watrous. No. 955,728; Apr. 19; Sp. p. 4409; Gaz. vol. 153; p. 760.
Shutter-fastener. H. Zimmerman. No. 956,256; Apr. 26; Sp. p. 5581; Gaz. vol. 153; p. 973.
Shutter fastener and bower. H. Zimmerman. No. 952,660; Mar. 22; Sp. p. 4486; Gaz. vol. 152; p. 816.
Shutter, Flexible or rolling metallic. J. G. and L. G. Wilson. No. 949,789; Feb. 22; Sp. p. 4202; Gaz. vol. 151; p. 759.
Shutter manipulator and fastener. J. W. Huntley. No. 978,588; Dec. 13; Sp. p. 2555; Gaz. vol. 161; p. 435.
Shutter, Metallic window-. E. W. Gray. No. 953,995; Apr. 5; Sp. p. 622; Gaz. vol. 153; p. 111.
Shutter operating and fastening device. C. W. Adams. No. 979,910; Dec. 27; Sp. p. 5402; Gaz. vol. 161; p. 934.
Shutter or fire-shield worker. D. Anthony. No. 979,244; Dec. 20; Sp. p. 3982; Gaz. vol. 161; p. 686.
Shutter regulator and fastener, Window-. J. H. Lynch. No. 964,441; July 12; Sp. p. 3030; Gaz. vol. 156; p. 500.
Shutter-worker. H. Osborne. No. 953,703; Apr. 5; Sp. p. 42; Gaz. vol. 153; p. 10.
Shutter-worker. C. A. Gothing. No. 970,039; Sept. 13; Sp. p. 1940; Gaz. vol. 158; p. 329.
Shuttle. H. Le Doux and E. H. Ryon. No. 955,119; Apr. 12; Sp p. 3062; Gaz. vol. 153; p. 519.
Shuttle. J. C. Sergeson. No. 956,198; Apr. 26; Sp. p. 5449; Gaz. vol. 153; p. 954.
Shuttle. M. O. Steere. No. 961,817; June 21; Sp. p. 3272; Gaz. vol. 155; p. 583.
Shuttle. E. S. Stimpson. No. 964,708; July 19; Sp. p. 3757; Gaz. vol. 156; p. 625.
Shuttle. J. Gagnon. No. 971,187; Sept. 27; Sp. p. 4366; Gaz. vol. 158; p. 766.
Shuttle. W. G. Peet. No. 974,291; Nov. 1; Sp. p. 483; Gaz. vol. 160; p. 70.
Shuttle. W. W. Stearns. No. 978,502; Dec. 13; Sp. p. 2344; Gaz. vol. 161; p. 404.
Shuttle. W. W. Stearns. No. 978,503; Dec. 13; Sp. p. 2346; Gaz. vol. 161; p. 405.
Shuttle. W. N. Reiff and J. A. Krauss. No. 979,203; Dec. 20; Sp. p. 3882; Gaz. vol. 161; p. 671.
Shuttle. T. J. Garisio. No. 980,093; Dec. 27; Sp. p. 5791; Gaz. vol. 161; p. 993.
Shuttle attachment, Hand-threading-. N. Caron. No. 976,632; Nov. 22; Sp. p. 5630; Gaz. vol. 160; p. 952.
Shuttle-box. J. Northrop. No. 973,130; Oct. 18; Sp. p. 3565; Gaz. vol. 159; p. 616.
Shuttle-changing mechanism, Automatic. S. Toyoda. No. 952,652; Mar. 22; Sp. p. 4469; Gaz. vol. 152; p. 813.
Shuttle-holder. T. Mooney. No. 956,131; Apr. 26; Sp. p. 5297; Gaz. vol. 153; p. 931.
Shuttle, Metallic. G. Cuthbert and F. J. Fee. No. 970,803; Sept. 20; Sp. p. 3583; Gaz. vol. 158; p. 612.
Shuttle-positioner. J. Northrop. No. 973,128; Oct. 18; Sp. p. 3558; Gaz. vol. 159; p. 615.
Shuttle tension device. J. E. Thayer. No. 974,309; Nov. 1; Sp. p. 521; Gaz. vol. 160; p. 77.
Shuttle tension device. J. L. Dow. No. 974,757; Nov. 1; Sp. p. 1537; Gaz. vol. 160; p. 236.
Shuttle, Thread-cutting. T. J. Garisio. No. 979,282; Dec. 20; Sp. p. 4058; Gaz. vol. 161; p. 698.
Shuttle-threading machine. J. Faltus. No. 962,327; June 21; Sp. p. 4380; Gaz. vol. 155; p. 756.
Shuttle-threading means. H. L. Litchfield. No. 979,865; Dec. 27; Sp. p. 5312; Gaz. vol. 161; p. 910.
Shuttles, Device for preventing rebound of. H. Côté and R. C. Snow. No 962,495; June 28; Sp. p. 4767; Gaz. vol. 155; p. 840.
Sickle. A. J. Coover. No. 972,098; Oct. 4; Sp. p. 1260; Gaz. vol. 159; p. 214.
Sickle-holder. A. C. Kious. No. 950,291; Feb. 22; Sp. p. 5329; Gaz. vol. 151; p. 934.
Side and back comb. F. C. Reighter. No. 955,689; Apr. 19; Sp. p. 4324; Gaz. vol. 153; p. 747.
Side-board clamp. T. C. Johnston. No. 979,309; Dec. 20; Sp. p. 4106; Gaz. vol. 161; p. 707.
Side-delivery rake, swath-turner, &c. W. E. Martin. No. 954,534; Apr. 12; Sp. p. 1791; Gaz. vol. 153; p. 322.
Side frame. A. H. Weston. No. 975,093; Nov. 8; Sp. p. 2291; Gaz. vol. 160; p. 375.
Side-wall register. A. Ward. No. 960,456; June 7; Sp. p. 425; Gaz. vol. 155; p. 72.
Siding, Making. T. J. House. No. 977,012; Nov. 29; Sp. p. 6497; Gaz. vol. 160; p. 1108.
Siding-strip. R. B. McFarland. No. 967,415; Aug. 16; Sp. p. 3391; Gaz. vol. 157; p. 584.
Siding-tool. H. E. Thompson. No. 979,225; Dec. 20; Sp. p. 3941; Gaz. vol. 161; p. 680.
Sidewalk-light. E. E. Schachner. No. 952,049; Mar. 15; Sp. p. 3226; Gaz. vol. 152; p. 581.
Sieve. J. McDaniel. No. 971,770; Oct. 4; Sp. p. 542; Gaz. vol. 159; p. 95.
Sieve. G. W. Stuart. No. 978,674; Dec. 13; Sp. p. 2727; Gaz. vol. 161; p. 464.
Sieve-bolter, Gyrating. S. Snyder. No. 961,814; June 21; Sp. p. 3260; Gaz. vol. 155; p. 582.
Sieve-cleaning device. J. N. McGibbon. No. 949,026; Feb. 15; Sp. p. 2640; Gaz. vol. 151; p. 470.
Sieve-cloth cleaner. C. K. Kinsey. No. 961,414; June 14; Sp. p. 2404; Gaz. vol. 155; p. 425.
Sieve, Grain-. G. W. Welfelt. No. 952,288; Mar. 15; Sp. p. 3693; Gaz. vol. 152; p. 660.
Sieve, Pneumatic. E. Dithridge. No. 949,625; Feb. 15; Sp. p. 3848; Gaz. vol. 151; p. 671.
Sifter. O. G. Boggs. No. 948,494; Feb. 8; Sp. p. 1512; Gaz. vol. 151; p. 267.
Sifter, Ash-. T. P. Bolger. No. 949,615; Feb. 15; Sp. p. 3833; Gaz. vol. 151; p. 668.
Sifter, Ash-. W. T. Thurston. No. 953,402; Mar. 29; Sp. p. 6083; Gaz. vol. 152; p. 1093.
Sifter, Ash-. A. Martel. No. 961,148; June 14; Sp. p. 1829; Gaz. vol. 155; p. 332.
Sifter, Ash-. C. F. Nolte. No. 962,661; June 28; Sp. p. 5122; Gaz. vol. 155; p. 895.
Sifter, Ash-. R. and P. J. Brownson. No. 965,797; July 26; Sp. p. 6057; Gaz. vol. 156; p. 1027.
Sifter, Ash-. J. W. Ormsby. No. 967,826; Aug. 16; Sp. p. 4217; Gaz. vol. 157; p. 721.
Sifter, Ash-. H. Hougk. No. 970,336; Sept. 13; Sp. p. 2545; Gaz. vol. 158; p. 429.
Sifter, Ash-. T. P. Bolger. No. 971,018; Sept. 27; Sp. p. 3993; Gaz. vol. 158; p. 709.
Sifter, Ash-. R. H. Burke. No. 971,825; Oct. 4; Sp. p. 652; Gaz. vol. 159; p. 114.
Sifter, Ash-. J. W. Roper. No. 976,099; Nov. 15; Sp. p. 4399; Gaz. vol. 160; p. 746.
Sifter, Automatic ash-. A. J. Smith. No. 960,591; June 7; Sp. p. 720; Gaz. vol. 155; p. 119.
Sifter, Automatic flour-. G. McEachron. No. 957,438; May 10; Sp. p. 2026; Gaz. vol. 154; p. 351.
Sifter-container. H. W. Jones. No. 973,116; Oct. 18; Sp. p. 3530; Gaz. vol. 159; p. 610.
Sifter-control device. A. C. Brantingham. No. 946,716; Jan. 18; Sp. p. 3804; Gaz. vol. 150; p. 635.
Sifter control, Self-balancing-. A. C. Brantingham. No. 949,144; Feb. 15; Sp. p. 2876; Gaz. vol. 151; p. 509.
Sifter, Enameling-powder. W. Lindsay. No. 951,478; Mar. 8; Sp. p. 2071; Gaz. vol. 152; p. 359.
Sifter, Flour-. M. E. Higgins. No. 945,950; Jan. 11; Sp. p. 2103; Gaz. vol. 150; p. 350.
Sifter, Flour-. G. McEachron. No. 947,684; Jan. 25; Sp. p. 5953; Gaz. vol. 150; p. 990.
Sifter, Flour-. N. F. Daumeyer. No. 967,109; Aug. 9; Sp. p. 2753; Gaz. vol. 157; p. 452.
Sifter, Flour-. C. Andrews, Jr. No. 971,875; Oct. 4; Sp. p. 775; Gaz. vol. 159; p. 135.
Sifter, Flour-. W. S. Butler. No. 976,782; Nov. 22; Sp. p. 5943; Gaz. vol. 160; p. 1003.
Sifter, Magazine flour-. W. W. Hill. No. 975,951; Nov. 15; Sp. p. 4111; Gaz. vol. 160; p. 694.
Sifter, strainer, and masher. T. F. Devlin. No. 972,515; Oct. 11; Sp. p. 2185; Gaz. vol. 159; p. 377.
Sifter-top can or box. J. M. Hothersall. No. 966,550; Aug. 9; Sp. p. 1545; Gaz. vol. 157; p. 264.
Sifter-top for receptacles. E. F. Schulz. No. 953,300; Mar. 29; Sp. p. 5851; Gaz. vol. 152; p. 1057.
Sifting apparatus. F. d'Orbessan and D. V. Louvet. No. 962,090; June 21; Sp. p. 3862; Gaz. vol. 155; p. 676.
Sifting-shovel. J. Moller. No. 971,299; Sept. 27; Sp. p. 4581; Gaz. vol. 158; p. 802.
Sight adjustments, Device for determining. O. von Eberhard and O. Schmitz. No. 949,015; Feb. 15; Sp. p. 2608; Gaz. vol. 151; p. 467.
Sight-feed. J. C. Hill. No. 945,844; Jan. 11; Sp. p. 1878; Gaz. vol. 150; p. 311.
Sight-feed. L. M. Fuller. No. 975,127; Nov. 8; Sp. p. 2386; Gaz. vol. 160; p. 387.
Sight-feed lubricator. H. Weihman. No. 949,339; Feb. 15; Sp. p. 3275; Gaz. vol. 151; p. 574.
Sight-feed lubricator. T. L. Swanberg. No. 964,583; July 19; Sp. p. 3406; Gaz. vol. 156; p. 582.
Sight-feed lubricator, Down-drop. F. W. Edwards. No. 948,301; Feb. 1; Sp. p. 1081; Gaz. vol. 151; p. 175.
Sighting objects from protected positions, Apparatus for. H. Grubb. No. 978,368; Dec. 13; Sp. p. 2050; Gaz. vol. 161; p. 358.
Sign. G. C. Nientimp. No. 947,699; Jan. 25; Sp. p. 5977; Gaz. vol. 150; p. 995.
Sign. J. Igelstroem. No. 949,538; Feb. 15; Sp. p. 3692; Gaz. vol. 151; p. 641.
Sign. S. C. Keene. No. 949,578; Feb. 15; Sp. p. 3768; Gaz. vol. 151; p. 655.
Sign. C. H. Kettles. No. 953,339; Mar. 29; Sp. p. 5434; Gaz. vol. 152; p. 1071.
Sign. W. J. Bailey. No 955,745; Apr. 19; Sp. p. 443; Gaz. vol. 153; p. 766.
Sign. F. S. Schaefer and W. D. Nance. No. 956,429; Apr. 26; Sp. p. 5935; Gaz. vol. 153; p. 1032.
Sign. G. E. Jennings. No. 956,857; May 3; Sp. p. 782; Gaz. vol. 154; p. 124.
Sign. F. W. Ruby. No. 957,259; May 10; Sp. p. 1649; Gaz. vol. 154; p. 290.
Sign. J. Staren. No. 959,895; May 31; Sp. p. 7504; Gaz. vol. 154; p. 1268.
Sign. P. Kamm. No. 960,336; June 7; Sp. p. 201; Gaz. vol. 155; p. 34.

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Sign. J. M. Francis. No. 962,630; June 28; Sp. p. 5061; Gaz. vol. 155; p. 885.
Sign. J. C. Smith. No. 962,724; June 28; Sp. p. 5259; Gaz. vol. 155; p. 918.
Sign. J. C. Smith. No. 965,544; July 26; Sp. p. 5522; Gaz. vol. 156; p. 940.
Sign. B. H. Cooley. No. 965,566; July 26; Sp. p. 5570; Gaz. vol. 156; p. 948.
Sign. M. M. Kasanof. No. 976,576; Nov. 22; Sp. p. 5520; Gaz. vol. 160; p. 933.
Sign. J. P. Tarr. No. 979,221; Dec. 20; Sp. p. 3934; Gaz. vol. 161; p. 679.
Sign, Advertising-. W. M. Bullock. No. 973,623; Oct. 25; Sp. p. 4643; Gaz. vol. 159; p. 807.
Sign, Advertising-. E. N. Heard. No. 975,035; Nov. 8; Sp. p. 2178; Gaz. vol. 160; p. 354.
Sign, Advertising-. E. Jocher. No. 976,179; Nov. 22; Sp. p. 4614; Gaz. vol. 160; p. 794.
Sign and signal-lamp, Illuminated. W. E. Jepson. No. 969,374; Sept. 6; Sp. p. 487; Gaz. vol. 158; p. 77.
Sign-attaching implement. G. A. Bell. No. 967,490; Aug. 16; Sp. p. 3546; Gaz. vol. 157; p. 609.
Sign-board. W. Spencer. No. 951,921; Mar. 15; Sp. p. 2985; Gaz. vol. 152; p. 540.
Sign-board. W. L. Turner. No. 953,871; Apr. 5; Sp. p. 377; Gaz. vol. 153; p. 68.
Sign-board, Changeable. H. Willson. No. 958,054; May 17; Sp. p. 3469; Gaz. vol. 154; p. 593.
Sign-controlling appliance. C. G. Huver and H. Dilks. No. 979,956; Dec. 27; Sp. p. 5487; Gaz. vol. 161; p. 948.
Sign, Electric. E. J. Prindle. No. 957,710; May 10; Sp. p. 2562; Gaz. vol. 154; p. 444.
Sign, Electric. L. Miller. No. 959,371; May 24; Sp. p. 6375; Gaz. vol. 154; p. 1066.
Sign, Electric illuminated. W. N. McComb. No. 964,301; July 12; Sp. p. 2771; Gaz. vol. 156; p. 457.
Sign, Electric street-indicating. J. W. Ellis. No. 977,081; Nov. 29; Sp. p. 6637; Gaz. vol. 160; p. 1131.
Sign, Electrical. H. I. Blits. No. 959,440; May 24; Sp. p. 6504; Gaz. vol. 154; p. 1088.
Sign, Electrical illuminating-. W. W. Arnold. No. 978,828; Dec. 20; Sp. p. 3020; Gaz. vol. 161; p. 538.
Sign-exhibiting apparatus. L. Hopkins. No. 978,162; Dec. 13; Sp. p. 1615; Gaz. vol. 161; p. 286.
Sign, Eyeleted enameled. E. Richardson. No. 974,297; Nov. 1; Sp. p. 494; Gaz. vol. 160; p. 72.
Sign-flasher, Electric. R. D. De Wolf. No. 972,516; Oct. 11; Sp. p. 2186; Gaz. vol. 159; p. 377.
Sign-holder. C. A. Woodruff and G. E. McElroy. No. 972,312; Oct. 11; Sp. p. 1739; Gaz. vol. 159; p. 305.
Sign-holder. W. H. Sweatt. No. 977,343; Nov. 29; Sp. p. 7186; Gaz. vol. 160; p. 1222.
Sign, Illuminated. R. R. and W. K. Wiley, and W. S. Hough, Jr. No. 948,557; Feb. 8; Sp. p. 1645; Gaz. vol. 151; p. 287.
Sign, Illuminated. R. F. Venner. No. 955,926; Apr. 26; Sp. p. 4850; Gaz. vol. 153; p. 858.
Sign, Illuminated. W. A. Sherwood and E. L. Gardner. No. 958,836; May 24; Sp. p. 5269; Gaz. vol. 154; p. 888.
Sign, Illuminated. W. A. Sherwood and E. L. Gardner. No. 958,837; May 24; Sp. p. 5272; Gaz. vol. 154; p. 889.
Sign, Illuminated. W. A. Sherwood and E. L. Gardner. No. 958,838; May 24; Sp. p. 5274; Gaz. vol. 154; p. 889.
Sign, Illuminated. E. J. Kellner and W. F. Edwards. No. 962,436; June 28; Sp. p. 4632; Gaz. vol. 155; p. 818.
Sign, Illuminated. J. Swenson. No. 966,267; Aug. 2; Sp. p. 699; Gaz. vol. 157; p. 144.
Sign, Illuminated. D. T. Fisher. No. 966,538; Aug. 9; Sp. p. 1518; Gaz. vol. 157; p. 260.
Sign, Illuminated. L. H. Moise. No. 966,846; Aug. 9; Sp. p. 2202; Gaz. vol. 157; p. 362.
Sign, Illuminated. A. L. Merrin. No. 968,177; Aug. 23; Sp. p. 5005; Gaz. vol. 157; p. 863.
Sign, Illuminated. W. H. Ingle. No. 974,275; Nov. 1; Sp. p. 444; Gaz. vol. 160; p. 65.
Sign, Illuminated. A. Mackenzie and T. M. Norton. No. 977,665; Dec. 6; Sp. p. 556; Gaz. vol. 161; p. 84.
Sign-illuminating device, Rotating. F. M. Carter. No. 949,111; Feb. 15; Sp. p. 2807; Gaz. vol. 151; p. 496.
Sign, Illusion-. L. A. Watkins. No. 949,867; Feb. 22; Sp. p. 4393; Gaz. vol. 151; p. 787.
Sign-letter. J. Mrazek. No. 949,155; Feb. 15; Sp. p. 2897; Gaz. vol. 151; p. 513.
Sign, Moving. W. W. Liles. No. 957,352; May 10; Sp. p. 1851; Gaz. vol. 154; p. 322.
Sign, Portable. J. Staren. No. 959,896; May 31; Sp. p. 7505; Gaz. vol. 154; p. 1268.
Sign-receptacle, Electrical. E. H. Freeman. No. 961,600; June 14; Sp. p. 2814; Gaz. vol. 155; p. 487.
Sign-receptacle fastening. F. J. Russell. No. 973,567; Oct. 25; Sp. p. 4518; Gaz. vol. 159; p. 789.
Sign-receptacle fastening-eyelet. F. J. Russell. No. 973,568; Oct. 25; Sp. p. 4520; Gaz. vol. 159; p. 789.
Sign-receptacle fastening-eyelet. F. J. Russell. No. 973,817; Oct. 25; Sp. p. 5040; Gaz. vol. 159; p. 876.
Sign, Sheet-metal twine-holder. C. W. Shonk. No. 964,323; July 12; Sp. p. 2810; Gaz. vol. 156; p. 463.
Sign-supporting attachment. J. J. Kegler. No. 962,963; June 28; Sp. p. 5705; Gaz. vol. 155; p. 1000.
Sign, Transparent. A. T. Fischer. No. 968,459; Aug. 23; Sp. p. 5568; Gaz. vol. 157; p. 960.
Sign, Wind-operated revolving. J. Meyers. No. 963,165; July 5; Sp. p. 350; Gaz. vol. 156; p. 50.
Signs, display designs, &c., Jewel for illuminated. O. H. Packer. No. 964,120; July 12; Sp. p. 2409; Gaz. vol. 156; p. 395.
Signs, Gas-flashing apparatus for. H. G. Sutton. No. 965,545; July 26; Sp. p. 5523; Gaz. vol. 156; p. 940.
Signing machine, Multiple-. J. C. Gardiner. No. 957,765; May 10; Sp. p. 2682; Gaz. vol. 154; p. 461.
Signal: *See* Answer-back signal; Automobile-signal; Car danger-signal; Crossing-signal; Fire-alarm signal; Fishing-signal; Mail-box signal; Railway-signal; Railway automatic signal; Railway-switch signal; Switch-signal; Time-signal; Vehicle-signal.
Signal. R. C. Spoor. No. 945,629; Jan. 4; Sp. p. 1335; Gaz. vol. 150; p. 207.
Signal. C. P. Ruggles. No. 950,867; Mar. 1; Sp. p. 859; Gaz. vol. 152; p. 137.
Signal. E. G. Reed. No. 950,956; Mar. 1; Sp. p. 1035; Gaz. vol. 152; p. 165.
Signal. M. F. Welch. No. 965,426; July 26; Sp. p. 5240; Gaz. vol. 156; p. 897.
Signal. W. J. O'Brien. No. 974,810; Nov. 8; Sp. p. 1654; Gaz. vol. 160; p. 277.
Signal-actuating means. A. T. Rackstraw. No. 972,245; Oct. 11; Sp. p. 1607; Gaz. vol. 159; p. 283.
Signal apparatus for mines, &c., Danger-. A. Grohs. No. 977,947; Dec. 6; Sp. p. 1135; Gaz. vol. 161; p. 182.
Signal apparatus, Light-. G. Dalén. No. 952,420; Mar. 15; Sp. p. 3937; Gaz. vol. 152; p. 705.
Signal apparatus, Light-. G. Dalén. No. 952,421; Mar. 15; Sp. p. 3940; Gaz. vol. 152; p. 705.
Signal-box. H. W. Doughty and C. E. Beach. No. 949,699; Feb. 15; Sp. p. 3979; Gaz. vol. 151; p. 693.
Signal-box. F. W. Cole. No. 970,800; Sept. 20; Sp. p. 3576; Gaz. vol. 158; p. 611.
Signal device, Automatic. F. Porto. No. 954,586; Apr. 12; Sp. p. 1898; Gaz. vol. 153; p. 338.
Signal device, Police. E. J. Kingsley, J. Greene, and W. G. Sadleir. No. 976,578; Nov. 22; Sp. p. 5529; Gaz. vol. 160; p. 933.
Signal device, Submarine. F. R. Schell. No. 955,359; Apr. 19; Sp. p. 3595; Gaz. vol. 153; p. 635.
Signal-flag holder. E. S. Reagan. No. 971,560; Oct. 4; Sp. p. 109; Gaz. vol. 159; p. 21.
Signal-horns, Operation of. M. A. Codd. No. 979,061; Dec. 20; Sp. p. 3545; Gaz. vol. 161; p. 620.
Signal-poles and the like, Foundation for. F. H. T. Potter. No. 978,201; Dec. 13; Sp. p. 1703; Gaz. vol. 161; p. 299.
Signal-sounding apparatus, Electric. A. L. Sohm. No. 961,036; June 7; Sp. p. 1599; Gaz. vol. 155; p. 268.
Signal-switch, Electric. J. I. Ayer. No. 963,728; July 5; Sp. p. 1557; Gaz. vol. 156; p. 239.
Signal system. R. S. Woods. No. 973,154; Oct. 18; Sp. p. 3628; Gaz. vol. 159; p. 624.
Signal system, Automatic stop-. C. L. Iungerich. No. 955,406; Apr. 19; Sp. p. 3703; Gaz. vol. 153; p. 651.
Signal system, Cab. P. I. Chandeysson. No. 966,796; Aug. 9; Sp. p. 2089; Gaz. vol. 157; p. 347.
Signal system, Electric. A. L. Sohm. No. 954,656; Apr. 12; Sp. p. 2065; Gaz. vol. 153; p. 363.
Signal system, Line. H. D. Stroud. No. 948,979; Feb. 8; Sp. p. 2519; Gaz. vol. 151; p. 428.
Signals, Receiver for wireless transmission of. V. Poulsen. No. 961,645; June 14; Sp. p. 2903; Gaz. vol. 155; p. 502.
Signaling. R. A. Fessenden. No. 962,018; June 21; Sp. p. 3694; Gaz. vol. 155; p. 649.
Signaling and fire-alarm system, Watchman's. G. M. Willis. No. 955,929; Apr. 26; Sp. p. 4855; Gaz. vol. 153; p. 859.
Signaling apparatus. G. Hughes. No. 948,562; Feb. 8; Sp. p. 1653; Gaz. vol. 151; p. 288.
Signaling apparatus. G. M. Willis. No. 963,843; July 12; Sp. p. 1833; Gaz. vol. 156; p. 302.
Signaling apparatus. G. H. Caughrean. No. 978,695; Dec. 13; Sp. p. 2760; Gaz. vol. 161; p. 470.
Signaling apparatus, Air-brake-system. S. P. Cota. No. 952,070; Mar. 15; Sp. p. 3260; Gaz. vol. 152; p. 587.
Signaling apparatus and circuits therefor. J. G. Nolen. No. 946,258; Jan. 11; Sp. p. 2747; Gaz. vol. 150; p. 457.
Signaling apparatus, Dial for selective. D. W. Kneisly. No. 949,797; Feb. 22; Sp. p. 4216; Gaz. vol. 151; p. 761.
Signaling apparatus, Electric. L. W. Carroll. No. 958,224; May 17; Sp. p. 3856; Gaz. vol. 154; p. 652.
Signaling apparatus, Electrical. H. W. Aylward. No. 953,575; Mar. 29; Sp. p. 6453; Gaz. vol. 152; p. 1154.
Signaling apparatus, Flash-light. G. H. Butterworth and E. Veevers. No. 973,913; Oct. 25; Sp. p. 5249; Gaz. vol. 159; p. 909.
Signaling apparatus for airships and the like. P. Lentz. No. 974,103; Oct. 25; Sp. p. 5625; Gaz. vol. 159; p. 975.
Signaling apparatus, Submarine. E. C. Wood and H. G. Marden. No. 945,998; Jan. 11; Sp. p. 2205; Gaz. vol. 150; p. 366.
Signaling apparatus, Submarine. T. J. Bowlker. No. 964,380; July 12; Sp. p. 2916; Gaz. vol. 156; p. 481.
Signaling, Arc mechanism for space. R. Kent. No. 966,560; Aug. 9; Sp. p. 1571; Gaz. vol. 157; p. 267.

Alphabetical list of inventions—Continued.

Signaling-box, Electric. A. Kempston. No. 979,769; Dec. 27; Sp. p. 5084; Gaz. vol. 161; p. 885.
Signaling by electromagnetic waves. R. A. Fessenden. No. 956,489; Apr. 26; Sp. p. 6087; Gaz. vol. 153; p. 1054.
Signaling by wireless telegraphy. V. Poulsen. No. 966,705; Aug. 9; Sp. p. 1845; Gaz. vol. 157; p. 316.
Signaling device. R. R. Guenther, Jr. No. 949,703; Feb. 15; Sp. p. 3996; Gaz. vol. 151; p. 695.
Signaling device. H. Macdonald. No. 951,537; Mar. 8; Sp. p. 2187; Gaz. vol. 152; p. 380.
Signaling device. I. R. Johnson and G. Michaels. No. 957,164; May 3; Sp. p. 1418; Gaz. vol. 154; p. 227.
Signaling device. G. H. Morgan. No. 960,669; June 7; Sp. p. 881; Gaz. vol. 155; p. 145.
Signaling device. M. J. Wohl and H. Hertzberg. No. 962,687; June 28; Sp. p. 5179; Gaz. vol. 155; p. 904.
Signaling device. G. Lawrence. No. 965,201; July 26; Sp. p. 4751; Gaz. vol. 156; p. 822.
Signaling, Electric. R. A. Fessenden. No. 962,014; June 21; Sp. p. 3686; Gaz. vol. 155; p. 648.
Signaling, Electrical. R. A. Fessenden. No. 979,145; Dec. 20; Sp. p. 3769; Gaz. vol. 161; p. 652.
Signaling-horn, Electrically-operated. E. M. Tormin. No. 976,159; Nov. 22; Sp. p. 4552; Gaz. vol. 160; p. 787.
Signaling-lens. W. Churchill. No. 974,123; Nov. 1; Sp. p. 33; Gaz. vol. 160; p. 9.
Signaling means. E. J. Burke. No. 946,957; Jan. 18; Sp. p. 4367; Gaz. vol. 150; p. 718.
Signaling mechanism. F. M. Dewing. No. 945,920; Jan. 11; Sp. p. 2038; Gaz. vol. 150; p. 339.
Signaling, Receiver for electric. R. A. Fessenden. No. 962,015; June 21; Sp. p. 3688; Gaz. vol. 155; p. 648.
Signaling, Submarine. J. B. Millet. No. 976,822; Nov. 22; Sp. p. 6009; Gaz. vol. 160; p. 1016.
Signaling system. J. L. Hall. No. 946,431; Jan. 11; Sp. p. 3205; Gaz. vol. 150; p. 516.
Signaling system. H. O. Rugh. No. 956,782; May 3; Sp. p. 602; Gaz. vol. 154; p. 96.
Signaling system. O. T. Lademan. No. 957,973; May 17; Sp. p. 3199; Gaz. vol. 154; p. 563.
Signaling system. H. O. Rugh. No. 960,586; June 7; Sp. p. 709; Gaz. vol. 155; p. 117.
Signaling system. H. O. Rugh. No. 969,985; Sept. 13; Sp. p. 1817; Gaz. vol. 158; p. 309.
Signaling system. E. Parsons. No. 973,808; Oct. 25; Sp. p. 5022; Gaz. vol. 159; p. 873.
Signaling system. C. P. Nachod. No. 979,081; Dec. 20; Sp. p. 3592; Gaz. vol. 161; p. 626.
Signaling system, Alarm. J. E. Shepherd. No. 969,414; Sept. 6; Sp. p. 557; Gaz. vol. 158; p. 90.
Signaling system and apparatus therefor, Call-box. C. C. Johnson. No. 957,968; May 17; Sp. p. 3181; Gaz. vol. 154; p. 561.
Signaling system and appliances. J. G. Nolen. No. 948,738; Feb. 8; Sp. p. 2034; Gaz. vol. 151; p. 348.
Signaling system, Automatic electrical. H. M. Eldred. No. 956,057; Apr. 26; Sp. p. 5127; Gaz. vol. 153; p. 904.
Signaling system, Automatic electrical. J. G. Nolen. No. 978,629; Dec. 13; Sp. p. 2639; Gaz. vol. 161; p. 449.
Signaling system, Electric. J. D. Taylor. No. 964,710; July 19; Sp. p. 3760; Gaz. vol. 156; p. 625.
Signaling system, Electrical. A. Goldstein and C. H. Pool. No. 966,822; Aug. 9; Sp. p. 2154; Gaz. vol. 157; p. 355.
Signaling system, Electrical. A. Goldstein. No. 966,823; Aug. 9; Sp. p. 2156; Gaz. vol. 157; p. 355.
Signaling system, Electrical. A. Goldstein. No. 966,824; Aug. 9; Sp. p. 2159; Gaz. vol. 157; p. 355.
Signaling system, Electrical. A. Goldstein. No. 966,825; Aug. 9; Sp. p. 2161; Gaz. vol. 157; p. 356.
Signaling system, Electrical. A. Goldstein. No. 966,902; Aug. 9; Sp. p. 2319; Gaz. vol. 157; p. 380.
Signaling system, Electrical. C. H. Pool. No. 977,219; Nov. 29; Sp. p. 6940; Gaz. vol. 160; p. 1179.
Signaling system, Resonant cab-. H. D. Patterson. No. 951,546; Mar. 8; Sp. p. 2199; Gaz. vol. 152; p. 382.
Signaling system, Selective. M. W. Zabel. No. 956,255; Apr. 26; Sp. p. 5575; Gaz. vol. 153; p. 972.
Signaling system, Selective. H. O. Rugh. No. 965,017; July 19; Sp. p. 4374; Gaz. vol. 156; p. 729.
Signaling system, Selective. O. M. Leich. No. 976,380; Nov. 22; Sp. p. 5092; Gaz. vol. 160; p. 864.
Signaling system, Time-controlled and electrically-operated. F. W. Wood. No. 960,761; June 7; Sp. p. 1055; Gaz. vol. 155; p. 177.
Signaling systems, Impulse-transmitter for electric. E. E. Clement. No. 964,612; July 19; Sp. p. 3457; Gaz. vol. 156; p. 591.
Signaling systems, Track instrument for. T. MacDougal and J. M. Chambers. No. 964,530; July 19; Sp. p. 3261; Gaz. vol. 156; p. 562.
Signaling, Wireless. R. A. Fessenden. No. 960,631; June 7; Sp. p. 804; Gaz. vol. 155; p. 132.
Silencer. J. M. Miller. No. 951,770; Mar. 8; Sp. p. 2651; Gaz. vol. 152; p. 458.
Silhouettegraph. B. H. Coffey. No. 951,472; Mar. 8; Sp. p. 2060; Gaz. vol. 152; p. 357.
Silica bricks, ganister, and other refractory materials, Manufacture of. H. Brearley and F. C. Moorwood. No. 958,084; May 17; Sp. p. 3579; Gaz. vol. 154; p. 603.
Silicon carbid, Making. F. J. Tone. No. 965,142; July 19; Sp. p. 4624; Gaz. vol. 156; p. 771.
Silicon carbid, Production of. F. J. Tone. No. 949,386; Feb. 15; Sp. p. 3391; Gaz. vol. 151; p. 592.
Silicon nitrid, Making. A. Sinding-Larsen. No. 962,170; June 21; Sp. p. 4061; Gaz. vol. 155; p. 705.
Silk, Apparatus for the manufacture of artificial. G. Guadagni. No. 977,863; Dec. 6; Sp. p. 963; Gaz. vol. 161; p. 152.
Silk fibroin, Obtaining. C. R. Baumann and G. G. Diesser. No. 976,977; Nov. 29; Sp. p. 6419; Gaz. vol. 160; p. 1096.
Silk holder, Darning-. J. B. Eiseman. No. 962,949; June 28; Sp. p. 5681; Gaz. vol. 155; p. 995.
Silk-like effects, Compound for producing. L. Lilienfeld. No. 960,100; May 31; Sp. p. 7972; Gaz. vol. 154; p. 1339.
Silk, Manufacture of artificial. H. Bernstein. No. 960,791; June 7; Sp. p. 1118; Gaz. vol. 155; p. 187.
Silk, Manufacture of artificial. G. Guadagni. No. 978,878; Dec. 20; Sp. p. 3128; Gaz. vol. 161; p. 555.
Silk, Preserving tin-weighted. O. Berg and M. Imhoff. No. 969,446; Sept. 6; Sp. p. 621; Gaz. vol. 158; p. 99.
Sill-bar. G. M. Voltz. No. 966,627; Aug. 9; Sp. p. 1700; Gaz. vol. 157; p. 290.
Silo. G. Moeke. No. 946,389; Jan. 11; Sp. p. 3118; Gaz. vol. 150; p. 502.
Silo. W. A. Holnagel. No. 947,334; Jan. 25; Sp. p. 5178; Gaz. vol. 150; p. 873.
Silo. R. J. and A. C. Klatt. No. 948,397; Feb. 8; Sp. p. 1301; Gaz. vol. 151; p. 233.
Silo. E. Hillard. No. 950,134; Feb. 22; Sp. p. 4997; Gaz. vol. 151; p. 879.
Silo. J. T. Ridgway. No. 958,178; May 17; Sp. p. 3769; Gaz. vol. 154; p. 637.
Silo. G. G. Griswold. No. 970,041; Sept. 13; Sp. p. 1943; Gaz. vol. 158; p. 330.
Silo. P. B. Naylor. No. 973,687; Oct. 25; Sp. p. 4786; Gaz vol. 159; p. 831.
Silo. A. E. De Armond. No. 979,444; Dec. 27; Sp. p. 4376; Gaz. vol. 161; p. 774.
Silo. N. Johnson. No. 979,767; Dec. 27; Sp. p. 5082; Gaz. vol. 161; p. 885.
Silo-feeder. J. J. Kennel. No. 963,583; July 5; Sp. p. 1250; Gaz. vol. 156; p. 192.
Silver cleaning and polishing paste. G. Uhl and W. Schmidt. No. 978,239; Dec. 13; Sp. p. 1783; Gaz. vol. 161; p. 313.
Silver from fixing solutions, Apparatus for separation of. C. W. Judd. No. 951,372; Mar. 8; Sp. p. 1853; Gaz. vol. 152; p. 324.
Silver-nickel-cobalt-arsenic ores, Smelting of. C. C. Cito. No. 949,059; Feb. 15; Sp. p. 2702; Gaz. vol. 151; p. 480.
Silver-nickel-cobalt-arsenic ores, Smelting of. C. C. Cito. No. 949,261; Feb. 15; Sp. p. 3107; Gaz. vol. 151; p. 548.
Silver-nickel-cobalt-arsenic ores, Treatment of. C. C. Cito. No. 949,058; Feb. 15; Sp. p. 2700; Gaz. vol. 151; p. 480.
Singeing-comb. E. Krause. No. 961,620; June 14; Sp. p. 2855; Gaz. vol. 155; p. 493.
Singeing-machine. T. Allsop, W. W. Sibson, and W. F. Hagar, Jr. No. 971,427; Sept. 27; Sp. p. 4817; Gaz. vol. 158; p. 843.
Singeing-machines, Stripping device for. G. W. Stevenson. No. 945,630; Jan. 4; Sp. p. 1337; Gaz. vol. 150; p. 208.
Singeing textile fabrics, Device for. G. Gin. No. 962,828; June 28; Sp. p. 5465; Gaz. vol. 155; p. 954.
Singeing textile fabrics, Device for. G. Gin. (Reissue.) No. 13,154; Oct. 4; Sp. p. 1359; Gaz. vol. 159; p. 229.
Single-trigger mechanism. V. C. Hodges. No. 945,459; Jan. 4; Sp. p. 962; Gaz. vol. 150; p. 152.
Sink. A. Ciolfi. No. 952,233; Mar. 15; Sp. p. 3571; Gaz. vol. 152; p. 642.
Sink-and-float testing apparatus. G. R. Delamater. No. 961,846; June 21; Sp. p. 3333; Gaz. vol. 155; p. 593.
Sink attachment. A. T. McCanlis. No. 975,626; Nov. 15; Sp. p. 3443; Gaz. vol. 160; p. 584.
Sink-bracket. J. P. Reynolds. No. 953,857; Apr. 5; Sp. p. 353; Gaz. vol. 153; p. 63.
Sink-cover. E. M. Beland. No. 966,298; Aug. 2; Sp. p. 957; Gaz. vol. 157; p. 152.
Sink-frame. B. Martin. No. 959,437; May 24; Sp. p. 6489; Gaz. vol. 154; p. 1087.
Sink-leg. G. G. Firth. No. 950,691; Mar. 1; Sp. p. 485; Gaz. vol. 152; p. 78.
Sink or the like. C. C. Hardman. No. 945,457; Jan. 4; Sp. p. 960; Gaz. vol. 150; p. 151.
Sink-plate. J. T. Franta. No. 965,510; July 26; Sp. p. 5432; Gaz. vol. 156; p. 927.
Sink-stopple. M. S. Hufschmidt. No. 962,570; June 28; Sp. p. 4941; Gaz. vol. 155; p. 865.
Sink-trap. W. J. Ray. No. 965,836; July 26; Sp. p. 6139; Gaz. vol. 156; p. 1040.
Sink trap, Kitchen-. T. H. Hall. No. 960,901; June 7; Sp. p. 1329; Gaz. vol. 155; p. 223.
Sinker. G. M. Vaughn. No. 978,519; Dec. 13; Sp. p. 2376; Gaz. vol. 161; p. 410.
Sintering-furnace. G. G. Vivian. No. 948,981; Feb. 8; Sp. p. 2525; Gaz. vol. 151; p. 429.
Siphon. W. P. Christopher and C. de Lukacsevics. No. 946,533; Jan. 18; Sp. p. 3439; Gaz. vol. 150; p. 577.
Siphon. W. B. Gadsden. No. 947,231; Jan. 25; Sp. p. 4912; Gaz. vol. 150; p. 837.

Siphon. C. F. Plunkett. No. 956,411; Apr. 26; Sp. p. 5900; Gaz. vol. 153; p. 1026.
Siphon. C. F. Meade. No. 958,415; May 17; Sp. p. 4395; Gaz. vol. 154; p. 718.
Siphon. A. C. Mills. No. 959,779; May 31; Sp. p. 7232; Gaz. vol. 154; p. 1228.
Siphon. E. C. Cook No. 962,624; June 28; Sp. p. 5052; Gaz. vol. 155; p. 883.
Siphon. L. Riebe. No. 977,968; Dec. 6; Sp. p. 1191; Gaz. vol. 161; p. 190.
Siphon. R. Koharu. No. 979,170; Dec. 20; Sp. p. 3823; Gaz. vol. 161; p. 661.
Siphon attachment for bathing purposes, Spraying. B. D. Knickerbocker. No. 957,566; May 10; Sp. p. 2277; Gaz. vol. 154; p. 394.
Siphon-closet. C. H. Christensen. No. 957,306; May 10; Sp. p. 1752; Gaz. vol. 154; p. 306.
Siphon feeding mechanism. E. A. Rhoads. No. 978,648; Dec. 13; Sp. p. 2681; Gaz. vol. 161; p. 456.
Siphon-filler. P. Vock. No. 958,982; May 24; Sp. p. 5582; Gaz. vol. 154; p. 538.
Siphon-filler. G. A. Dixon. No. 973,264; Oct. 18; Sp. p. 3871; Gaz. vol. 159; p. 662.
Siphon, Hygienic. A. J. Ackerman. No. 976,244; Nov. 22; Sp. p. 4788; Gaz. vol. 160; p. 819.
Siphons, Charging-capsule for. D. Brescia. No. 968,532; Aug. 30; Sp. p. 5739; Gaz. vol. 157; p. 1011.
Sister-hook. H. H. Straughan. No. 952,958; Mar. 22; Sp. p. 5106; Gaz. vol. 152; p. 917.
Sister-hook. L. E. Foster. No. 970,033; Sept. 13; Sp. p. 1932; Gaz. vol. 158; p. 327.
Sizing compositions, Compound for use in preparing. A. Vermeistch and N. Verhulst. No. 956,551; May 3; Sp. p. 95; Gaz. vol. 154; p. 17.
Sizing or finishing mediums, Manufacture of. G. Donauer. No. 972,068; Oct. 4; Sp. p. 1209; Gaz. vol. 159; p. 205.
Sizing-screen, Revoluble. L. E. Warner. No. 946,476; Jan. 11; Sp. p. 3307; Gaz. vol. 150; p. 531.
Skate. G. E. Neuberth. No. 945,795; Jan. 11; Sp. p. 1748; Gaz. vol. 150; p. 294.
Skate. G. F. Eckart. No. 967,742; Aug. 16; Sp. p. 4054; Gaz. vol. 157; p. 694.
Skate. J. Nuttall. No. 967,825; Aug. 16; Sp. p. 4215; Gaz. vol. 157; p. 721.
Skate. A. Huberth. No. 973,786; Oct. 25; Sp. p. 4978; Gaz. vol. 159; p. 865.
Skate. A. J. Kennedy. No. 979,169; Dec. 20; Sp. p. 3820; Gaz. vol. 161; p. 661.
Skate. D. M. Pfautz. No. 979,795; Dec. 27; Sp. p. 5163; Gaz. vol. 161; p. 895.
Skate, Convertible. A. Anderson. No. 945,435; Jan. 4; Sp. p. 926; Gaz. vol. 150; p. 145.
Skate, Detachable wagon-. M. Aubertel. No. 958,461; May 17; Sp. p. 4495; Gaz. vol. 154; p. 735.
Skate, Extensible. W. B. Alden. No. 946,308; Jan. 11; Sp. p. 2865; Gaz. vol. 150; p. 475.
Skate-jig. H. C. and E. J. Knudsen. No. 976,186; Nov. 22; Sp. p. 4629; Gaz. vol. 160; p. 797.
Skate, Roller-. W. P. Dodge and W. B. Alden. No. 948,666; Feb. 8; Sp. p. 1873; Gaz. vol. 151; p. 323.
Skate, Roller-. J. W. Peters. No. 954,993; Apr. 12; Sp. p. 2829; Gaz. vol. 153; p. 480.
Skate, Roller-. S. E. Astbury. No. 955,037; Apr. 12; Sp. p. 2921; Gaz. vol. 153; p. 495.
Skate, Roller-. O. Kirkham. No. 956,584; May 3; Sp. p. 168; Gaz. vol. 154; p. 29.
Skate, Roller-. T. Spacie. No. 964,705; July 19; Sp. p. 3751; Gaz. vol. 156; p. 623.
Skate, Roller-. H. P. Vosseller. No. 964,825; July 19; Sp. p. 3991; Gaz. vol. 156; p. 664.
Skate, Roller-. H. Simon. No. 968,427; Aug. 23; Sp. p. 5508; Gaz. vol. 157; p. 950.
Skate, Roller-. A. N. Pierman. No. 968,517; Aug. 23; Sp. p. 5697; Gaz. vol. 157; p. 981.
Skate, Roller-. I. Wanta. No. 978,523; Dec. 13; Sp. p. 2390; Gaz. vol. 161; p. 412.
Skate, Roller or wheeled. M. S. Mishler. No. 975,446; Nov. 15; Sp. p, 3055; Gaz. vol. 160; p. 522.
Skates and the like, Wheel for roller-. H. S. Yoxall and J. Easthope. No. 971,164; Sept. 27; Sp. p. 4308; Gaz. vol. 158; p. 758.
Skating-rink and merry-go-round, Combined. C. A. Ancil and J. Bollet. No. 962,608; June 28; Sp. p. 5017; Gaz. vol. 155; p. 877.
Skein and holder therefor. J. G. Smith. No. 963,084; July 5; Sp. p. 117; Gaz. vol. 156; p. 21.
Skeins of silk and like materials, Apparatus for stretching and drying. J. Knott. No. 969,960; Sept. 13; Sp. p. 1775; Gaz. vol. 158; p. 302.
Skeleton post or tower. E. E. Newman. No. 956,146; Apr. 26; Sp. p. 5326; Gaz. vol. 153; p. 936.
Sketch-pad, Folding. G. Morrison. No. 978,390; Dec. 13; Sp. p. 2111; Gaz. vol. 161; p. 367.
Skewer. G. L. Stark and A. W. Baxter. No. 974,200; Nov. 1; Sp. p. 215; Gaz. vol. 160; p. 36.
Skewer-finishing machine. A. T. True. No. 970,667; Sept. 20; Sp. p. 3264; Gaz. vol. 158; p. 563.
Skewer-making machine. R. A. Grover. No. 977,948; Dec. 6; Sp. p. 1137; Gaz. vol. 161; p. 183.
Skiascope. A. J. Cross. No. 978,276; Dec. 13; Sp. p. 1868; Gaz. vol. 161; p. 328.
Skid. W. A. Campbell. No. 962,815; June 28; Sp. p. 5437; Gaz. vol. 155; p. 950.
Skid. A. Lemke. No. 976,889; Nov. 29; Sp. p. 6183; Gaz. vol. 160; p. 1065.
Skid-shoe placer. T. E. Hines. No. 955,400; Apr. 19; Sp. p. 3692; Gaz. vol. 153; p. 649.
Skimmer. M. A. Gilliland. No. 976,733; Nov. 22; Sp. p. 5814; Gaz. vol. 160; p. 985.
Skinning and splitting cattle and scribing hogs, Machine for. J. Lance, J. C. Flowers, and G. Lance. No. 977,317; Nov. 29; Sp. p. 7123; Gaz. vol. 160; p. 1212.
Skinning-tool. F. Jackson. No. 964,865; July 19; Sp. p. 4076; Gaz. vol. 156; p. 679.
Skins, Apparatus for unhairing. W. R. Smith. No. 967,989; Aug. 23; Sp. p. 4557; Gaz. vol. 157; p. 800.
Skins, hides, leather, and the like, Machine for dressing, stretching, and otherwise treating. A. M. Marx. No. 978,318; Dec. 13; Sp. p. 1954; Gaz. vol. 161; p. 341.
Skins, hides, or the like, Machine for dressing or otherwise operating upon. W. A. Wüst. No. 953,936; Apr. 5; Sp. p. 499; Gaz. vol. 153; p. 91.
Skins, Unhairing. W. R. Smith. No. 967,988; Aug. 23; Sp. p. 4555; Gaz. vol. 157; p. 799.
Skirt. S. Cohn. No. 947,479; Jan. 25; Sp. p. 5539; Gaz. vol. 150; p. 921.
Skirt. J. A. and W. Grewen. No. 975,947; Nov. 15; Sp. p. 4104; Gaz. vol. 160; p. 693.
Skirt and trousers hanger. M. A. Hoffman. No. 960,549; June 7; Sp. p. 639; Gaz. vol. 155; p. 104.
Skirt-drafting quadrant. E. S. Eden. No. 967,504; Aug. 16; Sp. p. 3577; Gaz. vol. 157; p. 614.
Skirt-evener. M. E. Archer-Burton. No. 972,593; Oct. 11; Sp. p. 2372; Gaz. vol. 159; p. 405.
Skirt-gage. E. H. Young. No. 964,139; July 12; Sp. p. 2444; Gaz. vol. 156; p. 401.
Skirt-gage. M. Mohlsick. No. 973,955; Oct. 25; Sp. p. 5321; Gaz. vol. 159; p. 924.
Skirt-gage. W. J. Walsh. No. 976,523; Nov. 22; Sp. p. 5387; Gaz. vol. 160; p. 914.
Skirt-gage. C. W. Hogan and S. M. McCormick. No. 979,492; Dec. 27; Sp. p. 4474; Gaz. vol. 161; p. 790.
Skirt-hanger. A. Smith. No. 949,665; Feb. 15; Sp. p. 3916; Gaz. vol. 151; p. 682.
Skirt-marker. A. Donnelly. No. 951,105; Mar. 8; Sp. p. 1305; Gaz. vol. 152; p. 239.
Skirt-marker. C. S. McMartin. No. 951,573; Mar. 8; Sp. p. 2253; Gaz. vol. 152; p. 391.
Skirt-marker. E. David. No. 958,601; May 17; Sp. p. 4761; Gaz. vol. 154; p. 782.
Skirt-marker. J. L. McKissock. (Reissue.) No. 13,142; Aug. 9; Sp. p. 2845; Gaz. vol. 157; p. 467.
Skirt-marker. A. H. Lander. No. 969,544; Sept. 6; Sp. p. 847; Gaz. vol. 158; p. 133.
Skirt-marker. C. A. Rittman. No. 974,521; Nov. 1; Sp. p. 1028; Gaz. vol. 160; p. 153.
Skirt, Maternity-. W. Padernacht. No. 960,689; June 7; Sp. p. 920; Gaz. vol. 155; p. 152.
Skirt-protector. I. M. Rawson. No. 955,687; Apr. 19; Sp. p. 4320; Gaz. vol. 153; p. 747.
Skirt-protector, Catamenial. M. M. Kline. No. 971,680; Oct. 4; Sp. p. 358; Gaz. vol. 159; p. 63.
Skirt-shield, Sanitary. S. W. Little. No. 977,203; Nov. 29; Sp. p. 6918; Gaz. vol. 160; p. 1175.
Skirt-supporter. N. C. Edwards. (Reissue.) No. 13,152; Sept. 20; Sp. p. 3980; Gaz. vol. 158; p. 681.
Skirt-supporter and blouse-retainer. W. J. Taylor. No. 953,932; Apr. 5; Sp. p. 493; Gaz. vol. 153; p. 90.
Skiving-machine. F. L. Alley. No. 948,032; Feb. 1; Sp. p. 529; Gaz. vol. 151; p. 85.
Skiving-machine. G. H. Diehl, Jr. No. 949,062; Feb. 15; Sp. p. 2704; Gaz. vol. 151; p. 481.
Skiving-machine. J. Busfield. No. 954,778; Apr. 12; Sp. p. 2348; Gaz. vol. 153; p. 405.
Skiving-machine cutter-guard. A. B. Alden and L. W. Reinhardt. No. 959,830; May 31; Sp. p. 7359; Gaz. vol. 154; p. 1246.
Skiving-machines, Pressure-roll for. F. L. Alley. No. 948,031; Feb. 1; Sp. p. 527; Gaz. vol. 151; p. 85.
Skylight. L. Winter. No. 945,891; Jan. 11; Sp. p. 1971; Gaz. vol. 150; p. 328.
Skylight. J. N. Grenier. No. 951,112; Mar. 8; Sp. p. 1315; Gaz. vol. 152; p. 241.
Skylight. W. K. H. Langer. No. 959,018; May 24; Sp. p. 5646; Gaz. vol. 154; p. 949.
Skylight and automatic ventilator, Combined. C. Saunders. No. 969,199; Sept. 6; Sp. p. 122; Gaz. vol. 158; p. 20.
Skylight, Artificial. D. M. Moore. No. 973,685; Oct. 25; Sp. p. 4782; Gaz. vol. 159; p. 830.
Skylight-bar. J. E. Brogden. No. 968,737; Aug. 30; Sp. p. 6207; Gaz. vol. 157; p. 1084.
Skylight construction. J. D. Thompson. No. 974,310; Nov. 1; Sp. p. 523; Gaz. vol. 160; p. 77.
Skylight-lift. W. C. Habicht. No. 959,429; May 24; Sp. p. 6475; Gaz. vol. 154; p. 1085.
Slack-adjuster. R. W. Kelly. No. 949,680; Feb. 15; Sp. p. 3944; Gaz. vol. 151; p. 687.

Alphabetical list of inventions—Continued.

Slack-adjuster. A. R. Duffy. No. 970,026; Sept. 13; Sp. p. 1913; Gaz. vol. 158; p. 325.
Slack-adjuster, Automatic. S. Marco. No. 968,377; Aug. 23; Sp. p. 5409; Gaz. vol. 157; p. 933.
Slag, Apparatus for granulating blast-furnace. W. R. Warren. No. 974,003; Oct. 25; Sp. p. 5433; Gaz. vol. 159; p. 941.
Slag-disintegrator. E. Lamb. No. 971,853; Oct. 4; Sp. p. 726; Gaz. vol. 159; p. 127.
Slag, Handling. D. T. Croxton. No. 959,720; May 31; Sp. p. 7113; Gaz. vol. 154; p. 1208.
Slag-treating apparatus. R. C. Gangewere. No. 961,602; June 14; Sp. p. 2818; Gaz. vol. 155; p. 488.
Slasher. E. L. Morrill. No. 949,732; Feb. 15; Sp. p. 4058; Gaz. vol. 151; p. 705.
Slasher. E. L. Morrill. No. 964,531; July 19; Sp. p. 3263; Gaz. vol. 156; p. 562.
Slasher-head and coupling. F. W. Gebott. No. 970,915; Sept. 20; Sp. p. 3792; Gaz. vol. 158; p. 648.
Slate-cleaner and sponge-pocket for school-slates. A. Enge. No. 968,924; Aug. 30; Sp. p. 6581; Gaz. vol. 157; p. 1146.
Slate-picker. C. S. Farrer. No. 957,320; May 10; Sp. p. 1784; Gaz. vol. 154; p. 311.
Slate-picker. H. A. Whitman. No. 958,343; May 17; Sp. p. 4255; Gaz. vol. 154; p. 694.
Slate-picking apparatus. F. H. Emery. No. 969,048; Aug. 30; Sp. p. 6823; Gaz. vol. 157; p. 1188.
Sled. O. J. Mennenga. No. 948,866; Feb. 8; Sp. p. 2289; Gaz. vol. 151; p. 389.
Sled. H. B. Bartelsen. No. 949,169; Feb. 15; Sp. p. 2917; Gaz. vol. 151; p. 517.
Sled. F. A. Miller. No. 963,615; July 5; Sp. p. 1314; Gaz. vol. 156; p. 202.
Sled. W. Gillaspie. No. 966,006; Aug. 2; Sp. p. 344; Gaz. vol. 157; p. 56.
Sled. S. J. Turner. No. 978,515; Dec. 13; Sp. p. 2369; Gaz. vol. 161; p. 409.
Sled and boat, Convertible. J. and E. Enebo. No. 945,309; Jan. 4; Sp. p. 664; Gaz. vol. 150; p. 103.
Sled and propelling apparatus. A. J. Offord. No. 948,018; Feb. 1; Sp. p. 491; Gaz. vol. 151; p. 80.
Sled attachment, Bob-. C. Nelson. No. 964,537; July 19; Sp. p. 3283; Gaz. vol. 156; p. 564.
Sled, Automobile. W. C. Niemann. No. 954,130; Apr. 5; Sp. p. 895; Gaz. vol. 153; p. 156.
Sled, Bob-. E. Hoiby. No. 978,376; Dec. 13; Sp. p. 2071; Gaz. vol. 161; p. 361.
Sled-brake. H. A. Denney. No. 947,676; Jan. 25; Sp. p. 5940; Gaz. vol. 150; p. 988.
Sled-brake. W. Nichols. No. 948,651; Feb. 8; Sp. p. 1848; Gaz. vol. 151; p. 318.
Sled-brake. E. Hollingsworth. No. 974,382; Nov. 1; Sp. p. 685; Gaz. vol. 160; p. 103.
Sled-brake. J. Struve. No. 975,904; Nov. 15; Sp. p. 4018; Gaz. vol. 160; p. 678.
Sled, Coasting-. D. A. Page. No. 977,749; Dec. 6; Sp. p. 722; Gaz. vol. 161; p. 113.
Sled, Disk-. F. E. Chamberlin. No. 969,600; Sept. 6; Sp. p. 967; Gaz. vol. 158; p. 153.
Sled for carrying logs. A. O. Lombard. No. 955,601; Apr. 19; Sp. p. 4122; Gaz. vol. 153; p. 717.
Sled-knee. G. J. Goddin and H. B. Evans. No. 970,324; Sept. 13; Sp. p. 2522; Gaz. vol. 158; p. 426.
Sled, Mechanically-propelled. H. Day. No. 969,348; Sept. 6; Sp. p. 420; Gaz. vol. 158; p. 67.
Sled, Motor-. M. Meyerson. No. 977,421; Nov. 29; Sp. p. 7384; Gaz. vol. 160; p. 1248.
Sled-propeller. V. Bartos. No. 968,525; Aug. 30; Sp. p. 5728; Gaz. vol. 157; p. 1010.
Sled-propeller. W. R. Murphy. No. 971,302; Sept. 27; Sp. p. 4585; Gaz. vol. 158; p. 803.
Sled-runner. J. Bystrom. No. 954,377; Apr. 5; Sp. p. 1437; Gaz. vol. 153; p. 240.
Sleds, Running-gear for bob-. O. C. Simenson. No. 968,705; Aug. 30; Sp. p. 6146; Gaz. vol. 157; p. 1073.
Sledge. J. Lichtenstein. No. 966,454; Aug. 9; Sp. p. 1290; Gaz. vol. 157; p. 231.
Sleeve-board. F. Hofacker. No. 956,705; May 3; Sp. p. 445; Gaz. vol. 154; p. 71.
Sleeve for garments. S. Karp. No. 948,142; Feb. 1; Sp. p. 750; Gaz. vol. 151; p. 123.
Sleeve, Garment-. S. Karp. No. 971,539; Oct. 4; Sp. p. 58; Gaz. vol. 159; p. 13.
Sleeve-protector. I. J. Fletcher. No. 946,541; Jan. 18; Sp. p. 3448; Gaz. vol. 150; p. 579.
Sleeve-protector. T. P. Colby. No. 964,395; July 12; Sp. p. 2942; Gaz. vol. 156; p. 486.
Sleeve-protector. W. F. Reichenbach. No. 976,693; Nov. 22; Sp. p. 5738; Gaz. vol. 160; p. 972.
Sleigh. B. Klein. No. 950,292; Feb. 22; Sp. p. 5330; Gaz. vol. 151; p. 935.
Sleigh. W. Walpole. No. 961,469; June 14; Sp. p. 2532; Gaz. vol. 155; p. 444.
Sleigh. B. M. Wentworth. No. 963,015; June 28; Sp. p. 5809; Gaz. vol. 155; p. 1017.
Sleigh. S. Springett. No. 967,078; Aug. 9; Sp. p. 2689; Gaz. vol. 157; p. 441.
Sleigh, Auto-. O. J. Tubbs. No. 962,272; June 21; Sp. p. 4266; Gaz. vol. 155; p. 738.
Sleigh, Automobile. G. W. Deviov. No. 945,120; Jan. 4; Sp. p. 232; Gaz. vol. 150; p. 40.
Sleigh, Bob-. C. Hojohn. No. 951,187; Mar. 8; Sp. p. 1461; Gaz. vol. 152; p. 265.
Sleigh-brake. C. E. Yndero and V. K. Yndearo. No. 953,656; Mar. 29; Sp. p. 6621; Gaz. vol. 152; p. 1181.
Sleigh brake and stop. H. F. Troh. No. 965,419; July 26; Sp. p. 5212; Gaz. vol. 156; p. 894.
Sleigh-knee. F. Shillin. No. 958,552; May 17; Sp. p. 4661; Gaz. vol. 154; p. 766.
Sleigh, Motor-. G. Dokter. No. 964,002; July 12; Sp. p. 2164; Gaz. vol. 156; p. 354.
Sleigh-runner. J. Melby. No. 951,692; Mar. 8; Sp. p. 2482; Gaz. vol. 152; p. 431.
Sleigh-runner. W. Klaus. No. 961,415; June 14; Sp. p. 2405; Gaz. vol. 155; p. 425.
Sleigh-runner for wheeled vehicles. L. Beffel. No. 970,874; Sept. 20; Sp. p. 3717; Gaz. vol. 158; p. 635.
Slicer, Bacon-. C. F. Nayer and A. J. Perkins. No. 968,590; Aug. 30; Sp. p. 5860; Gaz. vol. 157; p. 1033.
Slicer, Bread-. V. Larson. No. 963,300; July 5; Sp. p. 680; Gaz. vol. 156; p. 96.
Slicer, Meat-. T. C. Brasket. No. 951,050; Mar. 1; Sp. p. 1188; Gaz. vol. 152; p. 195.
Slicer, Meat-. A. W. Johnson. No. 956,360; Apr. 26; Sp. p. 5799; Gaz. vol. 153; p. 1008.
Slicer, Vegetable-. J. N. Winans. No. 945,889; Jan. 11; Sp. p. 1967; Gaz. vol. 150; p. 328.
Slicer, Vegetable-. E. F. Smith. No. 976,613; Nov. 22; Sp. p. 5588; Gaz. vol. 160; p. 945.
Slicer, Vegetable and fruit. T. H. Tabor. No. 950,415; Feb. 22; Sp. p. 5558; Gaz. vol. 151; p. 974.
Slicing German sausages, &c., Machine for. W. A. Van Berkel. (Reissue.) No. 13,180; Dec. 6; Sp. p. 1530; Gaz. vol. 161; p. 247.
Slicing-machine. F. P. Burkhardt. No. 945,218; Jan. 4; Sp. p. 436; Gaz. vol. 150; p. 73.
Slicing-machine. A. B. Jennings. No. 960,334; June 7; Sp. p. 197; Gaz. vol. 155; p. 34.
Slicing-machine. H. Schoenmeier and L. Mau. No. 964,123; July 12; Sp. p. 2413; Gaz. vol. 156; p. 396.
Slicing-machine. A. L. Davis. No. 968,134; Aug. 23; Sp. p. 4886; Gaz. vol. 157; p. 848.
Slicing-machine. F. P. Burkhardt. No. 970,680; Sept. 20; Sp. p. 3299; Gaz. vol. 158; p. 568.
Slicing machine, Vegetable and fruit. O. L. Johnson. No. 964,915; July 19; Sp. p. 4181; Gaz. vol. 156; p. 697.
Slicing material in plug form, Apparatus for. A. W. Farrington. No. 951,636; Mar. 8; Sp. p. 2381; Gaz. vol. 152; p. 412.
Slicing mechanism. J. F. Kohler. No. 956,369; Apr. 26; Sp. p. 5818; Gaz. vol. 153; p. 1011.
Sliding bolt. J. G. Wainwright. No. 964,948; July 19; Sp. p. 4239; Gaz. vol. 156; p. 708.
Sliding bolt. E. E. Karber. No. 976,265; Nov. 22; Sp. p. 4844; Gaz. vol. 160; p. 827.
Sliding gate. L. M. Parsons. No. 966,047; Aug. 2; Sp. p. 440; Gaz. vol. 157; p. 71.
Slime-concentrator. S. H. Boylan. No. 976,430; Nov. 22; Sp. p. 5196; Gaz. vol. 160; p. 883.
Slime separator and classifier. C. Allen. No. 949,560; Feb. 15; Sp. p. 3732; Gaz. vol. 151; p. 649.
Slime-separator, Centrifugal. J. T. Lindahl. No. 954,528; Apr. 12; Sp. p. 1777; Gaz. vol. 153; p. 319.
Slimes, Apparatus for the treatment of metal-bearing. C. H. Jay. No. 963,710; July 5; Sp. p. 1499; Gaz. vol. 156; p. 233.
Slimes, Treating metallic. J. Dunstone. No. 956,800; May 3; Sp. p. 645; Gaz. vol. 154; p. 102.
Slip-holder. W. H. Schroeder. No. 945,985; Jan. 11; Sp. p. 2174; Gaz. vol. 150; p. 362.
Slip-mill. W. R. Macklind. No. 967,801; Aug. 16; Sp. p. 4159; Gaz. vol. 157; p. 713.
Slipper and the like. L. B. Tebeau. No. 976,313; Nov. 22; Sp. p. 4940; Gaz. vol. 160; p. 842.
Slitting and rewinding machine. F. Meisel. No. 972,891; Oct. 18; Sp. p. 3025; Gaz. vol. 159; p. 534.
Slot-machine. E. Spiegel. No. 953,158; Mar. 29; Sp. p. 5550; Gaz. vol. 152; p. 1012.
Slot-machine, Fruit-selling. J. H. Tatum. No. 955,718; Apr. 19; Sp. p. 4392; Gaz. vol. 153; p. 758.
Slotting and shaping machine. J. Riddell. No. 974,187; Nov. 1; Sp. p. 178; Gaz. vol. 160; p. 31.
Slotting-machine. W. J. Hagman and E. H. Wray. No. 964,421; July 12; Sp. p. 2996; Gaz. vol. 156; p. 494.
Slotting-machine. W. J. Hagman. No. 972,367; Oct. 11; Sp. p. 1848; Gaz. vol. 159; p. 324.
Slotting-machine. B. F. Stowell. No. 978,073; Dec. 6; Sp. p. 1398; Gaz. vol. 161; p. 225.
Slubber or fly-frame. M. Campbell. No. 976,545; Nov. 22; Sp. p. 5454; Gaz. vol. 160; p. 921.
Slug-detector. J. W. Eiler. No. 968,648; Aug. 30; Sp. p. 5986; Gaz. vol. 157; p. 1053.
Slugs or fastenings in stock, Machine for inserting. G. A. Ambler. No. 976,837; Nov. 29; Sp. p. 6058; Gaz. vol. 160; p. 1045.
Sluice-box. J. J. Barker. No. 974,339; Nov. 1; Sp. p. 599; Gaz. vol. 160; p. 89.
Sluice concentrator, Flush-. W. H. Merritt. No. 978,468; Dec. 13; Sp. p. 2266; Gaz. vol. 161; p. 393.

Sluice-gate. W. M. Creager and T. C. Harry. No. 975,400; Nov. 15; Sp. p. 2972; Gaz. vol. 160; p. 505.
Sluicing-machine, Centrifugal. A. Ponten. No. 980,001; Dec. 27; Sp. p. 5572; Gaz. vol. 161; p. 963.
Small-arm, Semi-automatic. N. Pieper. No. 974,425; Nov. 1; Sp. p. 778; Gaz. vol. 160; p. 118.
Small-arms, One-trigger mechanism for double-barrel breech-loading. L. B. Taylor. No. 970,405; Sept. 13; Sp. p. 2671; Gaz. vol. 158; p. 451.
Small-arms, Safety device for breech-actions of. J. Tambour. No. 947,066; Jan. 18; Sp. p. 4576; Gaz. vol. 150; p. 754.
Smelting. E. Dedolph. No. 959,924; May 31; Sp. p. 7566; Gaz. vol. 154; p. 1278.
Smelting and refining copper ores and compounds. R. Baggaley. No. 977,996; Dec. 6; Sp. p. 1231; Gaz. vol. 161; p. 198.
Smelting apparatus. E. Fink. No. 948,468; Feb. 8; Sp. p. 1441; Gaz. vol. 151; p. 257.
Smelting apparatus, Electric. F. Creelman. No. 978,137; Dec. 13; Sp. p. 1567; Gaz. vol. 161; p. 278.
Smelting-furnace. M. Hikec. No. 945,390; Jan. 4; Sp. p. 836; Gaz. vol. 150; p. 130.
Smelting-furnace. J. S. Loder. No. 948,098; Feb. 1; Sp. p. 666; Gaz. vol. 151; p. 108.
Smelting-furnace. B. de St. Seine. No. 952,284; Mar. 15; Sp. p. 3686; Gaz. vol. 152; p. 659.
Smelting-furnace. C. A. Wettengel. No. 953,405; Mar. 29; Sp. p. 6090; Gaz. vol. 152; p. 1094.
Smelting-furnace. J. Grogan. No. 957,554; May 10; Sp. p. 2257; Gaz. vol. 154; p. 391.
Smelting-furnace, Electric. E. A. A. Grönwall, A. R. Lindblad, and O. Stålhane. No. 953,029; Mar. 29; Sp. p. 5258; Gaz. vol. 152; p. 969.
Smelting-furnaces, Twyer-receiver for. J. O. Bardill. No. 962,112; June 21; Sp. p. 3922; Gaz. vol. 155; p. 684.
Smelting ore. F. T. Snyder. No. 974,608; Nov. 1; Sp. p. 1206; Gaz. vol. 160; p. 185.
Smelting ores. A. S. Dwight. No. 959,484; May 31; Sp. p. 6620; Gaz. vol. 154; p. 1129.
Smelting ores yielding a volatile metal, Apparatus for. W. M. Johnson. No. 964,268; July 12; Sp. p. 2694; Gaz. vol. 156; p. 445.
Smelting pyritic ores. J. P. Channing and F. J. Falding. No. 963,020; June 28; Sp. p. 5818; Gaz. vol. 155; p. 1019.
Smelting sulfur ores. R. Fleming. No. 945,926; Jan. 11; Sp. p. 2054; Gaz. vol. 150; p. 342.
Smoke and fume consuming apparatus. V. E. Lombard. No. 970,520; Sept. 20; Sp. p. 2938; Gaz. vol. 158; p. 512.
Smoke-bell support. H. F. Mechling. No. 956,393; Apr. 26; Sp. p. 5865; Gaz. vol. 153; p. 1020.
Smoke-bell support. D. F. McCarthy. No. 960,106; May 31; Sp. p. 7984; Gaz. vol. 154; p. 1341.
Smoke-bell support. J. T. Owens. No. 974,702; Nov. 1; Sp. p. 1417; Gaz. vol. 160; p. 219.
Smoke-canopy-supporting bracket. C. E. Gierding. No. 950,043; Feb. 22; Sp. p. 4832; Gaz. vol. 151; p. 849.
Smoke-cleaner. J. Lachance. No. 967,135; Aug. 9; Sp. p. 2810; Gaz. vol. 157; p. 461.
Smoke-condensing and gas or fume absorber. P. Marron. No. 952,992; Mar. 22; Sp. p. 5165; Gaz. vol. 152; p. 927.
Smoke-consumer. T. Rees. No. 957,377; May 10; Sp. p. 1899; Gaz. vol. 154; p. 330.
Smoke-consumer. C. F. Harris. No. 961,072; June 7; Sp. p. 1672; Gaz. vol. 155; p. 280.
Smoke-consumer. L. Limoges. No. 964,662; July 19; Sp. p. 3559; Gaz. vol. 156; p. 609.
Smoke-consumer. C. Sorensen. No. 967,074; Aug. 9; Sp. p. 2680; Gaz. vol. 157; p. 439.
Smoke-consumer. J. R. Blaik. No. 975,391; Nov. 15; Sp. p. 2957; Gaz. vol. 160; p. 502.
Smoke-consumer. C. Denis. No. 975,402; Nov 15; Sp. p. 2975; Gaz. vol. 160; p. 506.
Smoke-consumer. J. S. Green. No. 975,688; Nov. 15; Sp. p. 3587; Gaz. vol. 160; p. 604.
Smoke-consumer. W. McArdle. No. 978,467; Dec. 13; Sp. p. 2265; Gaz. vol. 161; p. 393.
Smoke-consumer, Automatic force-draft. J. R. Harrell. No. 967,375; Aug. 16; Sp. p. 3291; Gaz. vol. 157; p. 570.
Smoke-consuming apparatus. W. R. Marshall and T. Hargreaves. No. 966,109; Aug. 2; Sp. p. 562; Gaz. vol. 157; p. 91.
Smoke-consuming apparatus for locomotives. J. Loftus. No. 973,947; Oct. 25; Sp. p. 5306; Gaz. vol. 159; p. 922.
Smoke-consuming furnace. J. S. Smith. No. 963,953; July 12; Sp. p. 2052; Gaz. vol. 156; p. 336.
Smoke-consuming furnace. P. J. and C. H. Kraetsch. No. 968,570; Aug. 30; Sp. p. 5826; Gaz. vol. 157; p. 1026.
Smoke-consuming furnace. G. E. Wells. No. 974,322; Nov. 1; Sp. p. 565; Gaz. vol. 160; p. 82.
Smoke-house. A. Sievers. No. 951,746; Mar. 8; Sp. p. 2599; Gaz. vol. 152; p. 449.
Smoke-house. V. Molitor. No. 959,780; May 31; Sp. p. 7234; Gaz. vol. 154; p. 1228.
Smoke-house. N. O. Davidson. No. 973,010; Oct. 18; Sp. p. 3311; Gaz. vol. 159; p. 575.
Smoke-jack. W. R. Seigle. No. 955,290; Apr. 19; Sp. p. 3435; Gaz. vol. 153; p. 611.
Smoke-preventer. L. H. Long. No. 963,602; July 5; Sp. p. 1288; Gaz. vol. 156; p. 198.
Smoke-preventing and fuel-economizing appliance. W. J. and G. Storey. No. 973,991; Oct. 25; Sp. p. 5405; Gaz. vol. 159; p. 938.
Smoke-preventing device. J. R. Morton and W. S. Stoddard. No. 945,339; Jan. 4; Sp. p. 732; Gaz. vol. 150; p. 112.
Smoke-recording apparatus. R. L. Eddy. No. 971,670; Oct. 4; Sp. p. 335; Gaz. vol. 159; p. 59.
Smoke-retarding device. E. Kruse. No. 973,944; Oct. 25; Sp. p. 5302; Gaz. vol. 159; p. 921.
Smoke separator and purifier. V. E. Lombard. No. 970,519; Sept. 20; Sp. p. 2936; Gaz. vol. 158; p. 512.
Smoke-stack. P. Dickinson. No. 945,709; Jan. 4; Sp. p. 1500; Gaz. vol. 150; p. 235.
Smoke-stack. J. R. Childers. No. 946,958; Jan. 18; Sp. p. 4372; Gaz. vol. 150; p. 718.
Smoke-stack. A. Henry. No. 956,897; May 3; Sp. p. 863; Gaz. vol. 154; p. 138.
Smoke-stack. E. T. Jenkins. No. 963,208; July 5; Sp. p. 471; Gaz. vol. 156; p. 65.
Smoke-washer. H. Schroeder and G. Kessler. No. 965,954; Aug. 2; Sp. p. 214; Gaz. vol. 157; p. 37.
Smokeless briquet and making same. R. A. Carter, Jr. No. 968,123; Aug. 23; Sp. p. 4863; Gaz. vol. 157; p. 844.
Smokeless briquet and making the same. R. A. Carter, Jr. No. 972,333; Oct. 11; Sp. p. 1773; Gaz. vol. 159; p. 312.
Smoker's article. J. R. Ring. No. 947,762; Jan. 25; Sp. p. 6093; Gaz. vol. 150; p. 1016.
Smokers' articles, Mouthpiece or stem for. M. Feder. No. 973,490; Oct. 25; Sp. p. 4364; Gaz. vol. 159; p. 763.
Smoker's outfit. W. Goss. No. 956,701; May 3; Sp. p. 440; Gaz. vol. 154; p. 70.
Smoker's pipe. T. J. Stockton. No. 967,850; Aug. 16; Sp. p. 4261; Gaz. vol. 157; p. 729.
Smoking implement. J. M. Eder. No. 980,080; Dec. 27; Sp. p. 5751; Gaz. vol. 161; p. 989.
Smoking-pipe. C. E. Klein. No. 952,816; Mar. 22; Sp. p. 4832; Gaz. vol. 152; p. 869.
Smoking-pipe. J. Sjastram. No. 957,116; May 3; Sp. p. 1314; Gaz. vol. 154; p. 209.
Smoking-pipe. M. A. Barger. No. 959,043; May 24; Sp. p. 5702; Gaz. vol. 154; p. 958.
Smoking-pipe. S. P. Etter. No. 963,038; July 5; Sp. p. 20; Gaz. vol. 156; p. 6.
Smoking-pipe. B. T. Genthner. No. 974,051; Oct. 25; Sp. p. 5525; Gaz. vol. 159; p. 958.
Smoking-pipe. G. W. Clapp. No. 977,781; Dec. 6; Sp. p. 797; Gaz. vol. 161; p. 124.
Smoking-pipe, &c. J. L. Thomson. No. 959,649; May 31; Sp. p. 6967; Gaz. vol. 154; p. 1186
Smoking-pipe, Sanitary. A. Cibulas. No. 954,020; Apr. 5; Sp. p. 665; Gaz. vol. 153; p. 119.
Smoothing and polishing articles and parts, Compound for. W. R. Parsons. No. 957,999; May 17; Sp. p. 3263; Gaz. vol. 154; p. 572.
Smoothing-iron. S. G. Buskard. No. 970,788; Sept. 20; Sp. p. 3542; Gaz. vol. 158; p. 606.
Smoothing, polishing, filing, &c., Machine for. T. Nichols. No. 947,023; Jan. 18; Sp. p. 4506; Gaz. vol. 150; p. 742.
Smut-cleaner. D. A. Maanum. No. 964,290; July 12; Sp. p. 2745; Gaz. vol. 156; p. 453.
Smut-machine. C. Zeitler. No. 945,896; Jan. 11; Sp. p. 1992; Gaz. vol. 150; p. 330.
Smut-sheeting machine. J. E. Gilbert. No. 966,739; Aug. 9; Sp. p. 1939; Gaz. vol. 157; p. 328.
Snaffle-hook. F. P. Avery. No. 967,486; Aug. 16; Sp. p. 3536; Gaz. vol. 157; p. 608.
Snap-band for molds. C. H. Green. No. 975,351; Nov. 8; Sp. p. 2865; Gaz. vol. 160; p. 462.
Snap-catch for pocket-books, hand-bags, &c. O. Greenbaum. No. 964,641; July 19; Sp. p. 3516; Gaz. vol. 156; p. 601.
Snap-fastener. E. N. Humphrey. No. 964,260; July 12; Sp. p. 2678; Gaz. vol. 156; p. 441.
Snap-hook. F. E. Schartow. No. 947,764; Jan. 25; Sp. p. 6095; Gaz. vol. 150; p. 1016.
Snap-hook. F. Sherkel, Jr. No. 952,367; Mar. 15; Sp. p. 3837; Gaz. vol. 152; p. 686.
Snap-hook. W. A. Schleicher. No. 954,216; Apr. 5; Sp. p. 1120; Gaz. vol. 153; p. 186.
Snap-hook. G. M. Hubbard. No. 959,744; May 31; Sp. p. 7164; Gaz. vol. 154; p. 1216.
Snap-hook. W. A. Schleicher. No. 960,041; May 31; Sp. 7867; Gaz. vol. 154; p. 1321.
Snap-hook. A. R. McDonnell. No. 960,676; June 7; Sp. p. 892; Gaz. vol. 155; p. 148.
Snap-hook. W. A. Schleicher. No. 963,475; July 5; Sp. p. 1025; Gaz. vol. 156; p. 155.
Snap-hook. E. B. Merriman. No. 967,141; Aug. 9; Sp. p. 2824; Gaz. vol. 157; p. 463.
Snap-hook. T. R. Peterson. No. 967,664; Aug. 16; Sp. p. 3886; Gaz. vol. 157; p. 667.
Snap-hook. F. E. Schartow. No. 968,084; Aug. 23; Sp. p. 4781; Gaz. vol. 157; p. 832.
Snap-hook. W. A. Schleicher. No. 978,656; Dec. 13; Sp. p. 2694; Gaz. vol. 161; p. 458.
Snap-hook. A. W. Brash. No. 979,641; Dec. 27; Sp. p. 4806; Gaz. vol. 161; p. 843.
Snap hook and swivel, Combined. C. W. Olson. No. 963,931; July 12; Sp. p. 2009; Gaz. vol. 156; p. 330.

Alphabetical list of inventions—Continued.

Snap-hook, Bolt. F. W. Covert. No. 961,686; June 14; Sp. p. 2979; Gaz. vol. 155; p. 516.
Snap-hook, Double-ended. K. Carter. No. 974,950; Nov. 8; Sp. p. 1985; Gaz. vol. 160; p. 327.
Snap-hook for neck-yokes. T. E. Ewer. No. 961,221; June 14; Sp. p. 1992; Gaz. vol. 155; p. 360.
Snap-hook, Safety. R. Anteau. No. 951,041; Mar. 1; Sp. p. 1174; Gaz. vol. 152; p. 193.
Snap-hook, Spring-tongue. J. C. Covert. No. 959,116; May 24; Sp. p. 5860; Gaz. vol. 154; p. 982.
Snap-switch. H. P. Ball. No. 947,881; Feb. 1; Sp. p. 225; Gaz. vol. 151; p. 36.
Snap-switch. G. E. Stevens. No. 953,354; Mar. 29; Sp. p. 5979; Gaz. vol. 152; p. 1076.
Snap-switch. S. A. Koltonski. No. 972,387; Oct. 11; Sp. p. 1886; Gaz. vol. 159; p. 331.
Snap-switch, Electric. N. Marshall. No. 946,680; Jan. 18; Sp. p. 3732; Gaz. vol. 150; p. 623.
Snap-switch, Rotary. G. B. Thomas. No. 966,368; Aug. 2; Sp. p. 1088; Gaz. vol. 157; p. 175.
Snap-swivel. R. S. Beaver. No. 947,539; Jan. 25; Sp. p. 5669; Gaz. vol. 150; p. 942.
Snow and ice melting vehicle. C. R. Stedman and J. M. Hughes. No. 950,413; Feb. 22; Sp. p. 5555; Gaz. vol. 151; p. 973.
Snow-cleaning machine. A. Mason. No. 954,118; Apr. 5; Sp. p. 877; Gaz. vol. 153; p. 152.
Snow-guard. H. H. Salls and M. Wool. No. 956,647; May 3; Sp. p. 305; Gaz. vol. 154; p. 50.
Snow handling and removing means. A. Strauss. No. 974,306; Nov. 1; Sp. p. 511; Gaz. vol. 160; p. 76.
Snow-machine. C. Reynolds. No. 962,917; June 28; Sp. p. 5626; Gaz. vol. 155; p. 985.
Snow-melter. S. B. Goff. No. 961,604; June 14; Sp. p. 2823; Gaz. vol. 155; p. 488.
Snow-melting apparatus. M. Jonasson. No. 945,546; Jan. 4; Sp. p. 1162; Gaz. vol. 150; p. 180.
Snow-melting device. C. B. Mann. No. 974,898; Nov. 8; Sp. p. 1851; Gaz. vol. 160; p. 308.
Snow-melting machine. H. F. Cuntz. No. 950,895; Mar. 1; Sp. p. 907; Gaz. vol. 152; p. 146.
Snow-melting machine. O. Müller, M. Willnus, and C. Weishaar. No. 969,716; Sept. 6; Sp. p. 1191; Gaz. vol. 158; p. 193.
Snow-melting machine. W. N. Lux. No. 977,109; Nov. 29; Sp. p. 6702; Gaz. vol. 160; p. 1141.
Snow-melting machine. S. Friedman. No. 977,724; Dec. 6; Sp. p. 678; Gaz. vol. 161; p. 105.
Snow on roads, Machine for leveling and rolling. H. Grimes. No. 955,590; Apr. 19; Sp. p. 4085; Gaz. vol. 153; p. 713.
Snow-plow. E. K. McLain. No. 947,121; Jan. 18; Sp. p. 4671; Gaz. vol. 150; p. 771.
Snow-plow. P. Hannagan. No. 963,369; July 5; Sp. p. 810; Gaz. vol. 156; p. 120.
Snow-plow. H. Grimes. No. 964,157; July 12; Sp. p. 2478; Gaz. vol. 156; p. 406.
Snow-plow. H. Grimes. No. 964,158; July 12; Sp. p. 2480; Gaz. vol. 156; p. 407.
Snow-plow. H. Grimes. No. 964,159; July 12; Sp. p. 2482; Gaz. vol. 156; p. 407.
Snow-plow. W. Hartill-Law. No. 966,831; Aug. 9; Sp. p. 2173; Gaz. vol. 157; p. 358
Snow-plow. G. W. Ruggles. No. 970,451; Sept. 13; Sp. p. 2773; Gaz. vol. 158; p. 466.
Snow plow and roller. W. C. Brown. No. 979,255; Dec. 20; Sp. p. 4009; Gaz. vol. 161; p. 689.
Snow-plow and rutter, Combined. J. Monpas. No. 950,075; Feb. 22; Sp. p. 4879; Gaz. vol. 151; p. 859.
Snow-plow, Foldable hand. E. H. Gross. No. 956,896; May 3; Sp. p. 861; Gaz. vol. 154; p. 137.
Snow-plow, Rotary. W. H. Ferguson. No. 957,503; May 10; Sp. p. 2153; Gaz. vol. 154; p. 372.
Snow-plow, Rotary. C. B. Mann. No. 971,289; Sept. 27; Sp. p. 4567; Gaz. vol. 158; p. 799.
Snuff-box, Trick. T. Hummel. No. 979,499; Dec. 27;-Sp. p. 4489; Gaz. vol. 161; p. 793.
Soap and brush holder. G. F. Salisbury. No. 964,698; July 19; Sp. p. 3741; Gaz. vol. 156; p. 621.
Soap article. A. F. Conery, Jr. No. 979,381; Dec. 20; Sp. p. 4231; Gaz. vol. 161; p. 729.
Soap-box. J. G. Rote. No. 954,211; Apr. 5; Sp. p. 1113; Gaz. vol. 153; p. 185.
Soap, Cake of. C. H. J. Dilg and J. O. Fowler. No. 945,495; Jan. 4; Sp. p. 1062; Gaz. vol. 150; p. 164.
Soap, Composition of matter for making soft. T. W. Nichols. No. 964,538; July 19; Sp. p. 3284; Gaz. vol. 156; p. 564.
Soap container and dispenser, Pulverized-. F. J. Dunwoody. No. 970,479; Sept. 20; Sp. p. 2848; Gaz. vol. 158; p. 498.
Soap-cutting machine. Z. G. Sholes. No. 957,446; May 10; Sp. p. 2039; Gaz. vol. 154; p. 354.
Soap-cutting machine. C. W. Aiken. No. 970,161; Sept. 13; Sp. p. 2166; Gaz. vol. 158; p. 369.
Soap-dish. J. S. Frey. No. 970,485; Sept. 20; Sp. p. 2861; Gaz. vol. 158; p. 500.
Soap-dispenser. W. B. Garnett. No. 957,669; May 10; Sp. p. 2492; Gaz. vol. 154; p. 430.
Soap-dispenser. C. E. Wade. No. 962,682; June 28; Sp. p. 5159; Gaz. vol. 155; p. 902.
Soap dispenser, Liquid-. W. T. Carter. No. 967,727; Aug. 16; Sp. p. 4016; Gaz. vol. 157; p. 688.
Soap dispenser, Liquid-. E. Squadrilli. No. 968,498; Aug. 23; Sp. p. 5660; Gaz. vol. 157; p. 975.
Soap-dispensing machine. R. G. Clark. No. 948,721; Feb. 8; Sp. p. 1999; Gaz. vol. 151; p. 342.
Soap-dispensing machine. G. F. Shaver. No. 969,204; Sept. 6; Sp. p. 134; Gaz. vol. 158; p. 21.
Soap-dispensing machine. F. G. Agrell. No. 969,829; Sept. 13; Sp. p. 1491; Gaz. vol. 158; p. 257.
Soap-dispensing machine. F. G. Agrell. No. 969,830; Sept. 13; Sp. p. 1493; Gaz. vol. 158; p. 257.
Soap-holder. J. A. Moss. No. 978,189; Dec. 13; Sp. p. 1679; Gaz. vol. 161; p. 295.
Soap in lavatories, Apparatus for the distribution of liquid. R. N. Sheldon. No. 962,394; June 21; Sp. p. 4510; Gaz. vol. 155; p. 778.
Soap, Manufacture of albumose. P. Runge. No. 968,423; Aug. 23; Sp. p. 5501; Gaz. vol. 157; p. 948.
Soap, Manufacture of bleached. F. Wiedermann. No. 968,438; Aug. 23; Sp. p. 5529; Gaz. vol. 157; p. 954.
Soap receptacle, Shaving-. O. E. Pagan. No. 962,091; June 21; Sp. p. 3863; Gaz. vol. 155; p. 676.
Soap shaving or granulating device. J. N. Riggs. No. 950,959; Mar. 1; Sp. p. 1043; Gaz. vol. 152; p. 167.
Soap-slabbing machine. C. W. Aiken. No. 963,413; July 5; Sp. p. 906; Gaz. vol. 156; p. 134.
Soap stick and brush, Combined. A. L. Brown. No. 968,027; Aug. 23; Sp. p. 4652; Gaz. vol. 157; p. 812.
Soaps containing fullers' earth, Preparing scouring and other household. N. Sulzberger. No. 951,155; Mar. 8; Sp. p. 1402; Gaz. vol. 152; p. 254.
Soaps, Making hydrocarbon. I. Vanden Broek. No. 959,820; May 31; Sp. p. 7332; Gaz. vol. 154; p. 1242
Soaps, Medicinal. W. Schoeller and W. Schrauth. No. 967,840; Aug. 16; Sp. p. 4245; Gaz. vol. 157; p. 726.
Sock. J. R. Hayden. No. 974,058; Oct. 25; Sp. p. 5538; Gaz. vol. 159; p. 960.
Socket, Cluster-. E. A. Lefèbre, Jr. No. 949,541; Feb. 15; Sp. p. 3696; Gaz. vol. 151; p. 642.
Socket, Extension-. R. B. Benjamin. No. 958,217; May 17; Sp. p. 3842; Gaz. vol. 154; p. 649.
Socket-shell. A. S. Lyhne. No. 969,486; Sept. 6; Sp. p. 706; Gaz. vol. 158; p. 112.
Socket-shell-cap fastening. H. Hubbell. No. 947,547; Jan. 25; Sp. p. 5685; Gaz. vol. 150; p. 944.
Socket-spindle. L. H. Moulthrop. No. 946,390; Jan. 11; Sp. p. 3119; Gaz. vol. 150; p. 502.
Socket-wrench. C. Miller. No. 952,435; Mar. 15; Sp. p. 3963; Gaz. vol. 152; p. 709.
Socketed members, Securing means for. A. W. Cochran. No. 948,294; Feb. 1; Sp. p. 1067; Gaz. vol. 151; p. 173.
Sod-line-cutting device. A. E. Heyman. No. 956,091; Apr. 26; Sp. p. 5210; Gaz. vol. 153; p. 916.
Soda-ash, Tube for dissolving. W. H. Mussey. No. 961,789; June 21; Sp. p. 3199; Gaz. vol. 155; p. 574.
Soda-fountain dispensing device. W. H. Becker and C. W. Steed. No. 965,555; July 26; Sp. p. 5542; Gaz. vol. 156; p. 944.
Soda, Manufacture of bicarbonate of. R. H. F. Finlay. No. 961,945; June 21; Sp. p. 3546; Gaz. vol. 155; p. 626.
Soda, Preparing caustic. H. Reitz. No. 971,144; Sept. 27; Sp. p. 4269; Gaz. vol. 158; p. 752.
Sodium aluminate, Making. P. A. Emanuel. No. 957,848; May 10; Sp. p. 2846; Gaz. vol. 154; p. 488.
Sodium, Apparatus for the electrolytic production of. P. L. Hulin. No. 978,888; Dec. 20; Sp. p. 3149; Gaz. vol. 161; p. 559.
Sodium carbonate, Making. W. Hasenbach. No. 951,243; Mar. 8; Sp. p. 1570; Gaz. vol. 152; p. 282.
Sodium cyanid, Making. O. Liebknecht. No. 969,885; Sept. 13; Sp. p. 1606; Gaz. vol. 158; p. 277.
Sodium, Manufacture of metallic. P. L. Hulin. No. 971,198; Sept. 27; Sp. p. 4389; Gaz. vol. 158; p. 770.
Sodium, Means for the electrolytic manufacture of. P. L. Hulin. No. 979,497; Dec. 27; Sp. p. 4482; Gaz. vol. 161; p. 792.
Sodium-peroxid compositions for washing and bleaching purposes, Producing. P. Roser. No. 965,016; July 19; Sp. p. 4373; Gaz. vol. 156; p. 729.
Sodium sulfite and ammonium chlorid, Making. R. Friedrich and F. Hirsch. No. 957,761; May 10; Sp. p. 2677; Gaz. vol. 154; p. 460.
Soil antitoxin, Making. L. R. Coates. No. 947,797; Feb. 1; Sp. p. 35; Gaz. vol. 151; p. 8.
Soil, Device for testing the structural qualities of the. H. Menzel. No. 965,209; July 26; Sp. p. 4766; Gaz. vol. 156; p. 824.
Soil-stack fitting. W. Goebel. No. 974,875; Nov. 8; Sp. p. 1806; Gaz. vol. 160; p. 300.
Soil-sterilizing furnace. A. P. Young. No. 976,768; Nov. 22; Sp. p. 5909; Gaz. vol. 160; p. 998.
Soils and for other purposes, Apparatus for testing. W. H. Bowman. No. 966,078; Aug. 2; Sp. p. 505; Gaz. vol. 157; p. 81.
Solar heater. W. G. Baifey. No. 966,070; Aug. 2; Sp. p. 489; Gaz. vol. 157; p. 79.
Solder, Aluminum-. J. Silver. No. 968,203; Aug. 23; Sp. p. 5053; Gaz. vol. 157; p. 871.

Solder for incandescent-lamp filaments. H. Kuzel. No. 969,109; Aug. 30; Sp. p. 6954; Gaz. vol. 157; p. 1210.
Solder, Means for fluxing and supplying. W. Kirkwood. No. 955,172; Apr. 19; Sp. p. 3180; Gaz. vol. 153; p. 571.
Solder rings, Making. E. M. Lang, Jr. No. 978,040; Dec. 6; Sp. p. 1332; Gaz. vol. 161; p. 213.
Solder to cans, Apparatus for applying. W. F. Hebrank. No. 951,502; Mar. 8; Sp. p. 2121; Gaz. vol. 152; p. 367.
Soldered cord or twisted chain, Apparatus for automatically making. L. Bruckmann. No. 965,071; July 19; Sp. p. 4492; Gaz. vol. 156; p. 747.
Soldering. F. C. Wassman and M. E. Widell. No. 975,913; Nov. 15; Sp. p. 4041; Gaz. vol. 160; p. 681.
Soldering and surplus-solder-removing machine, Can-. M. Leitch. No. 958,750; May 24; Sp. p. 5065; Gaz. vol. 154; p. 856.
Soldering attachment. O. Eggebrecht. No. 964,223; July 12; Sp. p. 2602; Gaz. vol. 156; p. 429.
Soldering can-seams. C. W. Graham. No. 949,763; Feb. 22; Sp. p. 4144; Gaz. vol. 151; p. 749.
Soldering chain-links. R. Kunzmann and E. Stierle. No. 970,726; Sept. 20; Sp. p. 3398; Gaz. vol. 158; p. 583.
Soldering chains. G. H. Benjamin. No. 962,413; June 28; Sp. p. 4578; Gaz. vol. 155; p. 810.
Soldering end seams of cans, Means for. W. J. Phelps. No. 946,733; Jan. 18; Sp. p. 3840; Gaz. vol. 150; p. 641.
Soldering implement. H. J. Greene. No. 957,327; May 10; Sp. p. 1801; Gaz. vol. 154; p. 314.
Soldering-iron. L. S. Frost. No. 956,070; Apr. 26; Sp. p. 5159; Gaz. vol. 153; p. 909.
Soldering-iron. W. R. Lanum. No. 959,233; May 24; Sp. p. 6108; Gaz. vol. 154; p. 1020.
Soldering-iron. T. Van Aller. No. 973,592; Oct. 25; Sp. p. 4567; Gaz. vol. 159; p. 797.
Soldering-iron and blow-torch, Combined. H. E. Adams. No. 956,921; May 3; Sp. p. 917; Gaz. vol. 154; p. 145.
Soldering-iron, Electric. E. W. Rice, Jr. No. 957,256; May 10; Sp. p. 1636; Gaz. vol. 154; p. 289.
Soldering-iron, Electric. A. H. and C. P. Waage. No. 979,904; Dec. 27; Sp. p. 5391; Gaz. vol. 161; p. 931.
Soldering-iron furnace. S. T. Willson. No. 954,235; Apr. 5; Sp. p. 1154; Gaz. vol. 153; p. 192.
Soldering-iron, Gasolene. C. Oldenburg. No. 970,740; Sept. 20; Sp. p. 3429; Gaz. vol. 158; p. 588.
Soldering-iron heater. P. Burger and B. Sakren. No. 980,059; Dec. 27; Sp. p. 5714; Gaz. vol. 161; p. 983.
Soldering-iron, Self-heating. H. Koenig. No. 959,947; May 31; Sp. p. 7629; Gaz. vol. 154; p. 1287.
Soldering-iron, Self-heating. K. Erler. No. 966,183; Aug. 2; Sp. p. 734; Gaz. vol. 157; p. 116.
Soldering-machine. C. W. Graham. No. 960,310; June 7; Sp. p. 138; Gaz. vol. 155; p. 27.
Soldering-machine. F. C. Wassman and M. E. Widell. No. 975,912; Nov. 15; Sp. p. 4033; Gaz. vol. 160; p. 681.
Soldering machine, Can-. F. J. Hetchler. No. 953,143; Mar. 29; Sp. p. 5521; Gaz. vol. 152; p. 1007.
Soldering machine, Can-. D. P. Robinson. No. 959,388; May 24; Sp. p. 6408; Gaz. vol. 154; p. 1072.
Soldering machine, Can-. J. Coyle. No. 962,944; June 28; Sp. p. 5672; Gaz. vol. 155; p. 994.
Soldering machine, Can-. J. Coyle. No. 962,945; June 28; Sp. p. 5675; Gaz. vol. 155; p. 994.
Soldering machine, Can-. D. P. Robinson. No. 962,978; June 28; Sp. p. 5739; Gaz. vol. 155; p. 1005.
Soldering machine, Can-vent-. E. C. Dickey. No. 957,147; May 3; Sp. p. 1368; Gaz. vol. 154; p. 219.
Soldering machine, Chain-. G. H. Benjamin. No. 978,542; Dec. 13; Sp. p. 2423; Gaz. vol. 161; p. 417.
Soldering machine, Chain-. G. H. Benjamin. No. 978,543; Dec. 13; Sp. p. 2428; Gaz. vol. 161; p. 418.
Soldering-machine, Hand. A. Tosco. No. 957,636; May 10; Sp. p. 2413; Gaz. vol. 154; p. 417.
Soldering the cap ends of cans, Machine for. C. H. Ayars. No. 961,743; June 14; Sp. p. 3099; Gaz. vol. 155; p. 535.
Soldering the end seams of cans, Means for. W. J. Phelps. No. 947,935; Feb. 1; Sp. p. 326; Gaz. vol. 151; p. 54.
Soldering the end seams of cans, Mechanism for. W. J. Phelps. No. 949,330; Feb. 15; Sp. p. 3245; Gaz. vol. 151; p. 571.
Soldering-tool. J. E. Pettit. No. 953,920; Apr. 5; Sp. p. 471; Gaz. vol. 153; p. 85.
Soldering-tool. A. A. Bedard. No. 957,180; May 10; Sp. p. 1465; Gaz. vol. 154; p. 261.
Soldering-tool. R. Staehle. No. 979,896; Dec. 27; Sp. p. 5371; Gaz. vol. 161; p. 929.
Soldering-tool, Self-heating. A. Herrmann. No. 965,518; July 26; Sp. p. 5451; Gaz. vol. 156; p. 930.
Soldering torch, Wire-joint-. F. D. Booth and J. C. Beldin. No. 966,990; Aug. 9; Sp. p. 2498; Gaz. vol. 157; p. 411.
Soldering vent-cleats to can-caps, Machine for. L. C. Sharp. No. 958,776; May 24; Sp. p. 5122; Gaz. vol. 154; p. 865.
Sole and heel plate. J. T. Clishum. No. 977,272; Nov. 29; Sp. p. 7043; Gaz. vol. 160; p. 1198.
Sole attachment, Shoe-. T. J. Aldridge. No. 959,442; May 31; Sp. p. 6510; Gaz. vol. 154; p. 1115.
Sole-beveling machine, Shoe-. W. Dennison. No. 958,374; May 17; Sp. p. 4317; Gaz. vol. 154; p. 705.
Sole cutting and marking machine. M. Cook, Jr. No. 957,598; May 10; Sp. p. 2328; Gaz. vol. 154; p. 405.
Sole-drying machine, Shoe-. J. H. Gifford. No. 973,422; Oct. 18; Sp. p. 4211; Gaz. vol. 159; p. 717.
Sole-edge setter, Shoe-. G. F. Stewart. No. 958,026; May 17; Sp. p. 3352; Gaz. vol. 154; p. 582.
Sole flexer, Shoe-. T. G. Plant. No. 958,285; May 17; Sp. p. 4027; Gaz. vol. 154; p. 672.
Sole laying and leveling machine. E. Woodward. No. 958,057; May 17; Sp. p. 3518; Gaz. vol. 154; p. 594.
Sole laying and leveling machine. T. G. Plant. No. 965,224; July 26; Sp. p. 4792; Gaz. vol. 156; p. 829.
Sole laying and leveling machines, Jack-for. E. Woodward. No. 966,506; Aug. 9; Sp. p. 1432; Gaz. vol. 157; p. 249.
Sole-leveling machine. F. Feeney. No. 966,894; Aug. 9; Sp. p. 2302; Gaz. vol. 157; p. 377.
Sole-marking machine. W. C. Stewart. No. 958,028; May 17; Sp. p. 3363; Gaz. vol. 154; p. 583.
Sole patch, Shoe-. J. W. Britton. No. 959,304; May 24; Sp. p. 6243; Gaz. vol. 154; p. 1045.
Sole-pressing machine. B. F. Mayo. No. 960,980; June 7; Sp. p. 1482; Gaz. vol. 155; p. 249.
Sole-rounding machine. C. P. Stanbon. No. 958,024; May 17; Sp. p. 3341; Gaz. vol. 154; p. 582.
Sole-rounding machine. W. B. Keighley. No. 964,273; July 12; Sp. p. 2706; Gaz. vol. 156; p. 447.
Sole, Shoe-. W. T. Conway. No. 945,698; Jan. 4; Sp. p. 1471; Gaz. vol. 150; p. 231.
Sole, Sliding-. A. S. Gaw. No. 966,821; Aug. 9; Sp. p. 2153; Gaz. vol. 157; p. 354.
Sole, Slipper-. E. A. Bickford and W. A. Sweet. No. 960,149; May 31; Sp. p. 8064; Gaz. vol. 154; p. 1356.
Soles, &c., Machine for roughing shoe-. F. J. Nash. No. 978,777; Dec. 13; Sp. p. 2938; Gaz. vol. 161; p. 497.
Soles, Manufacture of. P. Hühn. No. 961,696; June 14; Sp. p. 2994; Gaz. vol. 155; p. 519.
Soles, Manufacture of boot and shoe. C. E. Sanderson. No. 960,202; May 31; Sp. p. 8167; Gaz. vol. 154; p. 1374.
Soles of boots and shoes, Machine for slashing. W. C. Stewart. No. 958,029; May 17; Sp. p. 3376; Gaz. vol. 154; p. 584.
Soles of boots and shoes, Machine for trimming the. A. S. Vose. No. 971,809; Oct. 4; Sp. p. 622; Gaz. vol. 159; p. 109.
Soles to boots and shoes by screws, Machine for attaching. M. T. Denne. No. 958,373; May 17; Sp. p. 4312; Gaz. vol. 154; p. 704.
Solenoid operating mechanism. E. M. Hewlett. No. 962,958; June 28; Sp. p. 5695; Gaz. vol. 155; p. 998.
Solids from liquids, Apparatus for segregating. C. E. Seymour. No. 958,942; May 24; Sp. p. 5505; Gaz. vol. 154; p. 924.
Solids from liquids, Apparatus for separating. L. C. Trent. No. 952,590; Mar. 22; Sp. p. 4321; Gaz. vol. 152; p. 791.
Solids from liquids, Machine for collecting. H. Parker. No. 974,989; Nov. 8; Sp. p. 2081; Gaz. vol. 160; p. 339.
Solids from liquids, Separating. W. A. Hendryx. No. 960,547; June 7; Sp. p. 635; Gaz. vol. 155; p. 103.
Solutions in general, Apparatus for concentrating. E. Monti. No. 973,290; Oct. 18; Sp. p. 3921; Gaz. vol. 159; p. 671.
Sorting-machine. J. W. Pease. No. 975,064; Nov. 8; Sp. p. 2236; Gaz. vol. 160; p. 364.
Sorting-table. J. T. Cowley and E. G. Thomas. No. 958,230; May 17; Sp. p. 3867; Gaz. vol. 154; p. 653.
Sound-amplifier. N. Baldwin. No. 946,096; Jan. 11; Sp. p. 2396; Gaz. vol. 150; p. 399.
Sound-box. G. L. Coleman. No. 946,015; Jan. 11; Sp. p. 2236; Gaz. vol. 150; p. 371.
Sound-box. E. C. Smith. No. 951,292; Mar. 8; Sp. p. 1678; Gaz. vol. 152; p. 297.
Sound-box. W. N. Dennison. No. 978,566; Dec. 13; Sp. p. 2501; Gaz. vol. 161; p. 427.
Sound-box feeding mechanism. W. W. Zackey. No. 963,847; July 12; Sp. p. 1841; Gaz. vol. 156; p. 303.
Sound-box mounting. G. L. Coleman. No. 946,014; Jan. 11; Sp. p. 2234; Gaz. vol. 150; p. 371.
Sound-deadener for rotary blowers. J. J. Gibson and C. L. W. Trinks. No. 976,063; Nov. 15; Sp. p. 4313; Gaz. vol. 160; p. 732.
Sound-locater. R. N. Baylis. No. 977,503; Dec. 6; Sp. p. 177; Gaz. vol. 161; p. 29.
Sound-producing apparatus. G. Dalén. No. 952,422; Mar. 15; Sp. p. 3942; Gaz. vol. 152; p. 705.
Sound-producing device. H. B. Gale. No. 946,029; Jan. 11; Sp. p. 2259; Gaz. vol. 150; p. 376.
Sound-producing device. G. Macloskie. No. 953,044; Mar. 29; Sp. p. 5285; Gaz. vol. 152; p. 973.
Sound-producing device. J. P. Northey. No. 973,960; Oct. 25; Sp. p. 5329; Gaz. vol. 159; p. 926.
Sound-producing device. J. P. Northey. No. 976,682; Nov. 22; Sp. p. 5718; Gaz. vol. 160; p. 968.
Sound-producing device. P. Seiler. No. 979,038; Dec. 20; Sp. p. 3501; Gaz. vol. 161; p. 613.
Sound-record. T. A. Edison. No. 964,221; July 12; Sp. p. 2596; Gaz. vol. 156; p. 428.
Sound-record, Duplicate. J. W. Aylsworth. No. 953,454; Mar. 29; Sp. p. 6192; Gaz. vol. 152; p. 1110.

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Sound-record, Duplicate. J. W. Aylsworth. No. 958,210; May 17; Sp. p. 3829; Gaz. vol. 154; p. 647.
Sound-record-duplicating apparatus. S. I. Prescott. No. 965,330; July 26; Sp. p. 5036; Gaz. vol. 156; p. 866.
Sound-record-tablet holder. J. B. Moses. No. 968,253; Aug. 23; Sp. p. 5162; Gaz. vol. 157; p. 889.
Sound-records and other objects, Composition for. J. C. English. No. 948,314; Feb. 8; Sp. p. 1116; Gaz. vol. 151; p. 205.
Sound-records and the matrices for making the same, Making. J. W. Owen. No. 964,686; July 19; Sp. p. 3710; Gaz. vol. 156; p. 617.
Sound-records, Method and apparatus for making. T. A. Edison. No. 970,615; Sept. 20; Sp. p. 3130; Gaz. vol. 158; p. 545.
Sound-records with electroconductive material, Apparatus for coating. I. W. Norcross. No. 952,753; Mar. 22; Sp. p. 4687; Gaz. vol. 152; p. 847.
Sound recording and reproducing machine. C. E. West, Jr. No. 956,460; Apr. 26; Sp. p. 6012; Gaz. vol. 153; p. 1043.
Sound recording and reproducing machine. G. Oulton, C. Ablett, and W. E. Lightfoot. No. 971,068; Sept. 27; Sp. p. 4109; Gaz. vol. 158; p. 727.
Sound recording and reproducing machines, Speed-regulating device for. G. Oulton, C. Ablett, and W. E. Lightfoot. No. 964,684; July 19; Sp. p. 3705; Gaz. vol. 156; p. 617.
Sound recording and reproducing machines, Transmitter for. S. I. Prescott. No. 965,326; July 26; Sp. p. 5024; Gaz. vol. 156; p. 865.
Sound-recording apparatus. T. A. Edison. No. 962,081; June 21; Sp. p. 3842; Gaz. vol. 155; p. 673.
Sound recording or reproducing apparatus. T. A. Edison. No. 963,362; July 5; Sp. p. 797; Gaz. vol. 156; p. 117.
Sound reproducer or recorder. C., Jr., and W. Thoma. No. 949,991; Feb. 22; Sp. p. 4700; Gaz. vol. 151; p. 831.
Sound-reproducing device. J. C. English. No. 947,227; Jan. 25; Sp. p. 4898; Gaz. vol. 150; p. 836.
Sound-reproducing device. F. Gottschalk. No. 977,621; Dec. 6; Sp. p. 463; Gaz. vol. 161; p. 70.
Sound-reproducing instruments, Resonating-support for. T. S. Greene. No. 949,269; Feb. 15; Sp. p. 3124; Gaz. vol. 151; p. 551.
Sound-reproducing machine. C. H. Norton. No. 950,024; Feb. 22; Sp. p. 4798; Gaz. vol. 151; p. 843.
Sound-reproducing machine. L. J. Gerson. No. 962,565; June 28; Sp. p. 4933; Gaz. vol. 155; p. 864.
Sound-reproducing machine. S. I. Prescott. No. 965,329; July 26; Sp. p. 5033; Gaz. vol. 156; p. 865.
Sound-reproducing machine. S. M. Wirts. No. 965,678; July 26; Sp. p. 5807; Gaz. vol. 156; p. 986.
Sound-reproducing machine and record therefor. F. H. Osborn. No. 956,727; May 3; Sp. p. 491; Gaz. vol. 154; p. 78.
Sound-reproducing-machine cabinet. A. E. Madison. No. 946,243; Jan. 11; Sp. p. 2714; Gaz. vol. 150; p. 451.
Sound-reproducing machine, Disk. T. H. Macdonald. No. 957,694; May 10; Sp. p. 2534; Gaz. vol. 154; p. 438.
Sound-reproducing-machine record. D. H. Haywood. No. 948,137; Feb. 1; Sp. p. 741; Gaz. vol. 151; p. 121.
Sound-reproducing machines, Amplifier for. S. I. Prescott. No. 965,328; July 26; Sp. p. 5031; Gaz. vol. 156; p. 865.
Sound-reproducing machines, Automatic cut-off and stop for. W. G. Altenburgh. No. 972,794; Oct. 18; Sp. p. 2786; Gaz. vol. 159; p. 498.
Sound-reproducing machines, Horn for. A. R. Cunnius. No. 960,834; June 7; Sp. p. 1203; Gaz. vol. 155; p. 200.
Sound-reproducing machines, Stylus for. S. Levin. No. 958,412; May 17; Sp. p. 4391; Gaz. vol. 154; p. 717.
Sound transmission. S. I. Prescott. No. 965,327; July 26; Sp. p. 5026; Gaz. vol. 156; p. 865.
Sound-transmitter. F. M. Durkee and J. B. Millet. No. 966,534; Aug. 9; Sp. p. 1510; Gaz. vol. 157; p. 259.
Sound-transmitting instruments, Receiver for. J. J. Comer. No. 954,931; Apr. 12; Sp. p. 2717; Gaz. vol. 153; p. 459.
Sounds, Apparatus for rendering audible minor. C. B. Savory. No. 951,969; Mar. 15; Sp. p. 3072; Gaz. vol. 152; p. 555.
Sounds from sound-records, Means for reproducing. C. L. Chisholm. No. 968,539; Aug. 30; Sp. p. 5758; Gaz. vol. 157; p. 1014.
Sounds, Recording and reproducing. J. C. English. No. 957,195; May 10; Sp. p. 1487; Gaz. vol. 154; p. 266.
Sounder. J. Du Shane. No. 968,034; Aug. 23; Sp. p. 4665; Gaz. vol. 157; p. 815.
Sounding apparatus. C. S. Lenz. No. 959,764; May 31; Sp. p. 7204; Gaz. vol. 154; p. 1223.
Sounding-boards of stringed instruments, Attachment for the. J. Sheldon. No. 962,393; June 21; Sp. p. 4509; Gaz. vol. 155; p. 778.
Sounding-fork vibrator, Electrical. I. Müller. No. 947,251; Jan. 25; Sp. p. 4950; Gaz. vol. 150; p. 843.
Sower, Seed-. R. Schönner. No. 957,577; May 10; Sp. p. 2294; Gaz. vol. 154; p. 398.
Sower, Seed-. S. J. Wood. No. 967,096; Aug. 9; Sp. p. 2715; Gaz. vol. 157; p. 447.
Sowing machine, Seed-. A. Welsh. No. 971,331; Sept. 27; Sp. p. 4644; Gaz. vol. 158; p. 812.
Space-block. A. A. Vardell. No. 968,819; Aug. 30; Sp. p. 6365; Gaz. vol. 157; p. 1110.
Spacing-table, Graduated. T. V. Boyle. No. 945,687; Jan. 4; Sp. p. 1454; Gaz. vol. 150; p. 227
Spade, Tiling-. F. J. Vondracek. No. 963,668; July 5; Sp. p. 1405; Gaz. vol. 156; p. 220.
Spades, Auxiliary tool for use in connection with. E. M. Skinner. No. 962,723; June 28; Sp. p. 5258; Gaz. vol. 155; p. 917.
Spades, Sod-cutting attachment for. A. N. Severson. No. 958,188; May 17; Sp. p. 3785; Gaz. vol. 154; p. 640.
Spanner die and pipe stock, Friction. E. S. Robinson. No. 949,248; Feb. 15; Sp. p. 3068; Gaz. vol. 151; p. 543.
Spanner with automatic parallel locking action. E. F. Maitrugue. No. 967,651; Aug. 16; Sp. p. 3858; Gaz. vol. 157; p. 662.
Spanner-wrench. G. Amborn. No. 956,259; Apr. 26; Sp. p. 5586; Gaz. vol. 153; p. 974.
Spare wheel, Vehicle. E. T. Burrowes. No. 951,938; Mar. 15; Sp. p. 3011; Gaz. vol. 152; p. 545.
Spark-arrester. L. Miller. No. 946,804; Jan. 18; Sp. p. 4021; Gaz. vol. 150; p. 667.
Spark-arrester. A. G. Leave. No. 947,642; Jan. 25; Sp. p. 5886; Gaz. vol. 150; p. 976.
Spark-arrester. D. Johnson. No. 949,432; Feb. 15; Sp. p. 3481; Gaz. vol. 151; p. 608.
Spark-arrester. J. F. Lavin and V. V. Stevens. No. 950,048; Feb. 22; Sp. p. 4840; Gaz. vol. 151; p. 851.
Spark-arrester. W. J. Lair and H. E. Widdows. No. 951,819; Mar. 15; Sp. p. 2758; Gaz. vol. 152; p. 504.
Spark-arrester. H. A. Dailey. No. 953,320; Mar. 29; Sp. p. 5886; Gaz. vol. 152; p. 1063.
Spark-arrester. G. R. Dunlap and F. E. Simons. No. 955,504; Apr. 19; Sp. p. 3899; Gaz. vol. 153; p. 684.
Spark-arrester. F. A. Just. No. 958,134; May 17; Sp. p. 3679; Gaz. vol. 154; p. 620.
Spark-arrester. K. M. Colquhoun. No. 959,923; May 31; Sp. p. 7564; Gaz. vol. 154; p. 1278.
Spark-arrester. G. G. Stoup. No. 960,430; June 7; Sp. p. 387; Gaz. vol. 155; p. 65.
Spark-arrester. H. Schmidt. No. 965,757; July 26; Sp. p. 5964; Gaz. vol. 156; p. 1013.
Spark-arrester. C. A. Rush. No. 970,397; Sept. 13; Sp. p. 2658; Gaz. vol. 158; p. 449.
Spark-arrester. E. A. Bishop. No. 971,823; Oct. 4; Sp. p. 649; Gaz. vol. 159; p. 114.
Spark-arrester. W. P. Steele. No. 972,583; Oct. 11; Sp. p. 2348; Gaz. vol. 159; p. 401.
Spark-arrester. L. L. Goodrich, Jr. No. 973,775; Oct. 25; Sp. p. 4953; Gaz. vol. 159; p. 862.
Spark-arrester. E. Brombacher. No. 978,132; Dec. 13; Sp. p. 1557; Gaz. vol. 161; p. 277.
Spark-arrester. C. E. Brook. No. 978,555; Dec. 13; Sp. p. 2453; Gaz. vol. 161; p. 422.
Spark-arrester and draft-regulator, Locomotive. R. J. Harle. No. 950,447; Feb. 22; Sp. p. 5615; Gaz. vol. 151; p. 984.
Spark-arrester and smoke-consumer. J. E. Hazelton. No. 952,737; Mar. 22; Sp. p. 4645; Gaz. vol. 152; p. 842.
Spark-arrester and smoke-consumer. W. T. and J. M. Lupton. No. 956,589; May 3; Sp. p. 178; Gaz. vol. 154; p. 31.
Spark-arrester, Locomotive. T. H. Densmore. No. 951,726; Mar. 8; Sp. p. 2538; Gaz. vol. 152; p. 442.
Spark-coil. C. H. Thordarson. No. 952,692; Mar. 22; Sp. p. 4552; Gaz. vol. 152; p. 827.
Spark-coil. C. H. Thordarson. No. 958,899; May 24; Sp. p. 5435; Gaz. vol. 154; p. 910.
Spark-coil. A. R. Luschka. No. 968,173; Aug. 23; Sp. p. 4997; Gaz. vol. 157; p. 862.
Spark-coil and indicator, Combined. J. V. Thorndike. No. 953,498; Mar. 29; Sp. p. 6289; Gaz. vol. 152; p. 1127.
Spark-coil vibrator. E. B. Jacobson. No. 950,105; Feb. 22; Sp. p. 4941; Gaz. vol. 151; p. 870.
Spark-extinguisher, Locomotive. J. Player. No. 951,994; Mar. 15; Sp. p. 3118; Gaz. vol. 152; p. 563.
Spark-gap apparatus. W. Peukert. No. 955,101; Apr. 12; Sp. p. 3028; Gaz. vol. 153; p. 514.
Spark igniter-plug, Jump-. L. B. Cherry. No. 962,314; June 21; Sp. p. 4355; Gaz. vol. 155; p. 752.
Spark-plug. O. C. Winestock. No. 945,890; Jan. 11; Sp. p. 1969; Gaz. vol. 150; p. 328.
Spark-plug. J. E. Schaefer, Jr. No. 946,878; Jan. 18; Sp. p. 4207; Gaz. vol. 150; p. 692.
Spark-plug. S. B. Fowler. No. 950,847; Mar. 1; Sp. p. 823; Gaz. vol. 152; p. 132.
Spark-plug. H. F. Provandie. No. 954,697; Apr. 12; Sp. p. 2143; Gaz. vol. 153; p. 375.
Spark-plug. F. J. Heasel. No. 958,247; May 17; Sp. p. 3910; Gaz. vol. 154; p. 658.
Spark-plug. J. M. Woods and J. S. Maimone. No. 961,056; June 7; Sp. p. 1639; Gaz. vol. 155; p. 274.
Spark-plug. J. M. Woods and J. S. Maimone. No. 961,057; June 7; Sp. p. 1641; Gaz. vol. 155; p. 275.
Spark-plug. R. Jake. No. 961,136; June 14; Sp. p. 1804; Gaz. vol. 155; p. 328.
Spark-plug. G. Walzel. No. 962,604; June 28; Sp. p. 5014; Gaz. vol. 155; p. 877.
Spark-plug. I. F. Kepler. No. 964,028; July 12; Sp. p. 2210; Gaz. vol. 156; p. 364.
Spark-plug. R. E. Estes and J. Inman. No. 965,380; July 26; Sp. p. 5138; Gaz. vol. 156; p. 881.

Spark-plug. D. M. Tuttle. No. 968,612; Aug. 30; Sp. p. 5906; Gaz. vol. 157; p. 1041.
Spark-plug. H. F. Provandie. No. 968,687; Aug. 30; Sp. p. 6106; Gaz. vol. 157; p. 1068.
Spark-plug. G. Baehr. No. 972,798; Oct. 18; Sp. p. 2793; Gaz. vol. 159; p. 499.
Spark-plug. V. C. de Ybarrondo. No. 973,464; Oct. 18; Sp. p. 4289; Gaz. vol. 159; p. 731.
Spark-plug. T. C. Luce. No. 974,802; Nov. 8; Sp. p. 1637; Gaz. vol. 160; p. 274.
Spark-plug. E. C. Rauch. No. 974,824; Nov. 8; Sp. p. 1681; Gaz. vol. 160; p. 282.
Spark-plug. W. H. McNutt. No. 975,056; Nov. 8; Sp. p. 2222; Gaz. vol. 160; p. 361.
Spark-plug. A. Schmidt. No. 976,101; Nov. 15; Sp. p. 4402; Gaz. vol. 160; p. 746.
Spark-plug. G. E. Edick. No. 976,158; Nov. 22; Sp. p. 4550; Gaz. vol. 160; p. 787.
Spark-plug. J. C. Anderson. No. 979,242; Dec. 20; Sp. p. 3977; Gaz. vol. 161; p. 685.
Spark-plug, Adjustable. J. S. Palmer. No. 956,778; May 3; Sp. p. 595; Gaz. vol. 154; p. 95.
Spark plug and coil, Combined. E. S. Lincoln. No. 945,278; Jan. 4; Sp. p. 565; Gaz. vol. 150; p. 93.
Spark-plug holder. C. M. Holden and H. G. Hendershot. No. 960,091; May 31; Sp. p. 7955; Gaz. vol. 154; p. 1336.
Spark-plug, Oil-proof. E. J. Bushey. No. 957,653; May 10; Sp. p. 2449; Gaz. vol. 154; p. 423.
Spark-plug priming attachment. W. C. Reynolds. No. 966,767; Aug. 9; Sp. p. 2034; Gaz. vol. 157; p. 338.
Spark-plug, Removable. W. Falwell. No. 978,280; Dec. 13; Sp. p. 1876; Gaz. vol. 161; p. 329.
Spark-plug-testing device. H. R. Willard. No. 966,146; Aug. 2; Sp. p. 625; Gaz. vol. 157; p. 103.
Spark-plugs, Manufacturing. J. C. Anderson. No. 966,784; Aug. 9; Sp. p. 2066; Gaz. vol. 157; p. 343.
Spark-producing device. F. A. Thurston. No. 950,214; Feb. 22; Sp. p. 5176; Gaz. vol. 151; p. 908.
Sparker or igniter. W. C. Westaway. No. 945,066; Jan. 4; Sp. p. 126; Gaz. vol. 150; p. 21.
Sparking apparatus. A. F. Rockwell. No. 962,255; June 21; Sp. p. 4229; Gaz. vol. 155; p. 733.
Sparking device. I. W. Giles and C. W. Tobey. No. 947,155; Jan. 18; Sp. p. 4740; Gaz. vol. 150; p. 781.
Sparking device. T. H. McQuown. No. 950,339; Feb. 22; Sp. p. 5423; Gaz. vol. 151; p. 951.
Sparking device. C. H. Stonebridge. No. 963,334; July 5; Sp. p. 744; Gaz. vol. 156; p. 108.
Sparking plug. K. C. Wideen. No. 967,283; Aug. 16; Sp. p. 3102; Gaz. vol. 157; p. 537.
Sparking plug. W. A. Einig. No. 968,333; Aug. 23; Sp. p. 5331; Gaz. vol. 157; p. 918.
Sparking plug. G. Honold. No. 972,560; Oct. 11; Sp. p. 2277; Gaz. vol. 159; p. 393.
Sparking plug, Electromagnetic. E. Kuhn. No. 971,544; Oct. 4; Sp. p. 76; Gaz. vol. 159; p. 15.
Speaking-tube attachment. L. E. Gager. No. 945,929; Jan. 11; Sp. p. 2062; Gaz. vol. 150; p. 343.
Spear, Drive-. S. S. Frampton and L. J. Bailey. No. 962,020; June 21; Sp. p. 3700; Gaz. vol. 155; p. 650.
Specific gravity, Obtaining. A. Sommer. No. 959,633; May 31; Sp. p. 6933; Gaz. vol. 154; p. 1181.
Spectacle-cases, &c., Safety-clamp for. J. W. Trulove. No. 948,287; Feb. 1; Sp. p. 1038; Gaz. vol. 151; p. 170.
Spectacle-glass. M. von Rohr. No. 949,501; Feb. 15; Sp. p. 3606; Gaz. vol. 151; p. 628.
Spectacle-glass, Achromatic. M. von Rohr. No. 968,693; Aug. 30; Sp. p. 6127; Gaz. vol. 157; p. 1069.
Spectacle-glass, Bifocal. M. von. Rohr. No. 968,081; Aug. 23; Sp. p. 4774; Gaz. vol. 157; p. 830.
Spectacle-mounting. P. Moews. No. 975,778; Nov. 15; Sp. p. 3770; Gaz. vol. 160; p. 634.
Spectacles. E. W. Beebe. No. 945,078; Jan. 4; Sp. p. 149; Gaz. vol. 150; p. 25.
Spectacles. R. W. V. Minor. No. 955,278; Apr. 19; Sp. p. 3414; Gaz. vol. 153; p. 607.
Spectacles. J. W. Donaldson. No. 956,690; May 3; Sp. p. 421; Gaz. vol. 154; p. 66.
Spectacles. L. F. Adt. No. 975,195; Nov. 8; Sp. p. 2545; Gaz. vol. 160; p. 410.
Spectacles. G. P. Blanchard. No. 978,982; Dec. 20; Sp. p. 3378; Gaz. vol. 161; p. 594.
Spectacles and eyeglasses. J. B. Schofield. No. 964,188; July 12; Sp. p. 2528; Gaz. vol. 156; p. 416.
Spectacles and the like, Straight-side. E. Barnes. No. 959,105; May 24; Sp. p. 5842; Gaz. vol. 154; p. 979.
Spectacles, Bridge connection for lenses for. J. Savoie. No. 977,227; Nov. 29; Sp. p. 6955; Gaz. vol. 160; p. 1182.
Spectacles, Eye-shield for. F. Hamilton. No. 971,372; Sept. 27; Sp. p. 4728; Gaz. vol. 158; p. 826.
Spectacles, eyeglasses, and other articles, Case for. F. J. Willmott. No. 973,835; Oct. 25; Sp. p. 5079; Gaz. vol. 159; p. 882.
Spectacles, Frameless. F. A. Stevens. No. 953,304; Mar. 29; Sp. p. 5856; Gaz. vol. 152; p. 1058.
Speculum. W. Meyer. No. 951,285; Mar. 8; Sp. p. 1665; Gaz. vol. 152; p. 295.
Speculum. V. von Unruh. No. 977,489; Dec. 6; Sp. p. 138; Gaz. vol. 161; p. 24.
Speculum and spatula. S. Kaplan and E. Batault. No. 949,236; Feb. 15; Sp. p. 3049; Gaz. vol. 151; p. 539.
Speculum, Mouth-. J. F. Koehler. No. 964,110; July 12; Sp. p. 2392; Gaz. vol. 156; p. 392.
Speculum, Mouth-. H. E. Caswell. No. 965,079; July 19; Sp. p. 4507; Gaz. vol. 156; p. 750.
Speculum, Mouth-. J. F. Koehler. No. 976,812; Nov. 22; Sp. p. 5992; Gaz. vol. 160; p. 1012.
Speed and distance recorder. R. J. Hutchinson and A. B Grindrod. No. 964,647; July 19; Sp. p. 3526; Gaz. vol. 156; p. 603.
Speed and reverse-drive mechanism, Change-. A. C. Pletz. No. 948,825; Feb. 8; Sp. p. 2224; Gaz. vol. 151; p. 376.
Speed and time indicator, Combined. T. Bäuerle. No. 958,074; May 17; Sp. p. 3561; Gaz. vol. 154; p. 600.
Speed apparatus, Variable-. W. B. Allyn. No. 975,198; Nov. 8; Sp. p. 2549; Gaz. vol. 160; p. 411.
Speed apparatus, Variable-. F. Schafer. No. 978,065; Dec. 6; Sp. p. 1382; Gaz. vol. 161; p. 222.
Speed-changer. P. H. Doherty. No. 950,317; Feb. 22; Sp. p. 5379; Gaz. vol. 151; p. 944.
Speed-changing device. W. A. Greaves. No. 952,037; Mar. 15; Sp. p. 3206; Gaz. vol. 152; p. 577.
Speed-changing device. W. M. Bradshaw. No. 963,743; July 12; Sp. p. 1595; Gaz. vol. 156; p. 268.
Speed-changing device, Motor. G. W. Fowler and W. P. Siebenmorgen. No. 952,033; Mar. 15; Sp. p. 3199; Gaz. vol. 152; p. 575.
Speed-changing mechanism. R. Symmonds. No. 945,059; Jan. 4; Sp. p. 107; Gaz. vol. 150; p. 19.
Speed-changing mechanism. F. J. Ziegler. No. 952,171; Mar. 15; Sp. p. 3448; Gaz. vol. 152; p. 620.
Speed-changing mechanism. A. A. Page. No. 959,878; May 31; Sp. p. 7465; Gaz. vol. 154; p. 1262.
Speed-changing mechanism. F. C. Brunhouse. No. 964,847; July 19; Sp. p. 4039; Gaz. vol. 156; p. 673.
Speed-changing mechanism. W. H. Holland. No. 965,461; July 26; Sp. p. 5320; Gaz. vol. 156; p. 909.
Speed-changing mechanism, Friction. S. J. Morgan. No. 953,634; Mar. 29; Sp. p. 6573; Gaz. vol. 152; p. 1175.
Speed control, Automatic. T. Brown. No. 977,703; Dec. 6; Sp. p. 644; Gaz. vol. 161; p. 98.
Speed-controller. J. T. Cowley. No. 962,819; June 28; Sp. p. 5444; Gaz. vol. 155; p. 951.
Speed-controlling apparatus. K. E. Winge. No. 953,164; Mar. 29; Sp. p. 5560; Gaz. vol. 152; p. 1014.
Speed-controlling device applicable to electric motors and generators. D. Balachowsky and P. Caire. No. 960,774; June 7; Sp. p. 1088; Gaz. vol. 155; p. 182.
Speed device, Change-of-. T. J. Kehoe. No. 952,529; Mar. 22; Sp. p. 4192; Gaz. vol. 152; p. 769.
Speed device, Variable-. B. D. Stevens. No. 955,920; Apr. 26; Sp. p. 4836; Gaz. vol. 153; p. 855.
Speed-gage. A. Steinmeyer. No. 949,990; Feb. 22; Sp. p. 4699; Gaz. vol. 151; p. 830.
Speed-gage. L. A. Casgrain. No. 962,622; June 28; Sp. p. 5044; Gaz. vol. 155; p. 882.
Speed-governing mechanism, Fluid. J. C. W. Jörgensen. No. 974,973; Nov. 8; Sp. p. 2049; Gaz. vol. 160; p. 334.
Speed-indicator. F. Spalding. No. 951,491; Mar. 8; Sp. p. 2103; Gaz. vol. 152; p. 363.
Speed-indicator. L. A. Kaiser. No. 955,081; Apr. 12; Sp. p. 2994; Gaz. vol. 153; p. 508.
Speed-indicator. C. Spratt and F. J. Shenton. No. 955,709; Apr. 19; Sp. p. 4367; Gaz. vol. 153; p. 754.
Speed-indicator. A. M. Hudson. No. 960,329; June 7; Sp. p. 176; Gaz. vol. 155; p. 32.
Speed-indicator. F. W. Wood. No. 960,762; June 7; Sp. p. 1062; Gaz. vol. 155; p. 178.
Speed-indicator. W. Trafford. No. 961,559; June 14; Sp. p. 2727; Gaz. vol. 155; p. 473.
Speed-indicator. G. C. Buquo. No. 972,158; Oct. 11; Sp. p. 1411; Gaz. vol. 159; p. 253.
Speed-indicator and faucet control, Combined. K. K. McLeod. No. 971,139; Sept. 27; Sp. p. 4252; Gaz. vol. 158; p. 750.
Speed indicator and recorder. W. N. Mitchell. No. 960,568; June 7; Sp. p. 675; Gaz. vol. 155; p. 111.
Speed indicator and recorder. A. D. Renfro. No. 976,694; Nov. 22; Sp. p. 5739; Gaz. vol. 160; p. 972.
Speed-indicator for motor-cars and other vehicles. C. C. Smith. No. 969,990; Sept. 13; Sp. p. 1831; Gaz. vol. 158; p. 311.
Speed-indicator, Ship's. L. A. Cotton. No. 976,725; Nov. 22; Sp. p. 5800; Gaz. vol. 160; p. 982.
Speed-indicators, Signaling device for. H. Dahl and M. Martin. No. 961,107; June 14; Sp. p. 1754; Gaz. vol. 155; p. 318.
Speed-limiting apparatus. F. W. Waterman. No. 976,017; Nov. 15; Sp. p. 4228; Gaz. vol. 160; p. 717.
Speed mechanism, Change-. J. F. Appinger. No. 968,519; Aug. 30; Sp. p. 5713; Gaz. vol. 157; p. 1007.
Speed mechanism, Change-. L. D. Hubbell. No. 968,849; Aug. 30; Sp. p. 6426; Gaz. vol. 157; p. 1120.
Speed mechanism, Change-. K. W. Gant. No. 971,883; Oct. 4; Sp. p. 787; Gaz. vol. 159; p. 137.
Speed mechanism, Variable-. H. W. Schatz. No. 946,073; Jan. 11; Sp. p. 2358; Gaz. vol. 150; p. 391.
Speed mechanism, Variable-. H. W. Schatz. No: 948,025; Feb. 1; Sp. p. 511; Gaz. vol. 151; p. 82.

Alphabetical list of inventions—Continued.

Speed mechanism, Variable-. H. W. Schatz. No. 952,050; Mar. 15; Sp. p. 3227; Gaz. vol. 152; p. 581.
Speed mechanism, Variable-. F. S. Rand. No. 955,201; Apr. 19; Sp. p. 3247; Gaz. vol. 153; p. 582.
Speed mechanism, Variable-. H. W. Schatz. No. 971,219; Sept. 27; Sp. p. 4436; Gaz. vol. 158; p. 777.
Speed mechanism, Variable-. G. E. Witherell, E. R. Seward, and G. L. Mason. No. 972,138; Oct. 4; Sp. p. 1347; Gaz. vol. 159; p. 227.
Speed mechanism, Variable-. R. E. Rosewarne. No. 977,403; Nov. 29; Sp. p. 7348; Gaz. vol. 160; p. 1243.
Speed mechanism, Variable-. G. D. Hayden. No. 977,449; Dec. 6; Sp. p. 47; Gaz. vol. 161; p. 10.
Speed-meter. R. Johnson. No. 945,327; Jan. 4; Sp. p. 709; Gaz. vol. 150; p. 109.
Speed-meter. W. I. Sherwood. No. 946,687; Jan. 18; Sp. p. 3746; Gaz. vol. 150; p. 626.
Speed-recording mechanism. L. L. Bloch. No. 954,921; Apr. 12; Sp. p. 2698; Gaz. vol. 153; p. 456.
Speed-regulating device for automobiles and the like. H. Saurer. No. 976,834; Nov. 22; Sp. p. 6033; Gaz. vol. 160; p. 1019.
Speed-regulating mechanism. J. C. Carpenter. No. 972,815; Oct. 18; Sp. p. 2832; Gaz. vol. 159; p. 506.
Speed-regulator. G. C. Davison. No. 951,725; Mar. 8; Sp. p. 2536; Gaz. vol. 152; p. 441.
Speed retarding and reversing device. K. J. A. Isakson. No. 957,509; May 10; Sp. p. 2163; Gaz. vol. 154; p. 374.
Speed transmission device, Variable-. F. A. Moore, Sr. No. 955,279; Apr. 19; Sp. p. 3415; Gaz. vol. 153; p. 607.
Speed transmission mechanism. Variable-. H. R. Geer. No. 948,091; Feb. 1; Sp. p. 654; Gaz. vol. 151; p. 106.
Speed varying and reversing mechanism. L. and L. R. Bleitz. No. 967,164; Aug. 16; Sp. p. 2873; Gaz. vol. 157; p. 497.
Speed varying and reversing mechanism. F. Mesinger. No. 972,391; Oct. 11; Sp. p. 1898; Gaz. vol. 159; p. 333.
Speed-varying transmission. F. H. Cheyne. No. 950,368; Feb. 22; Sp. p. 5466; Gaz. vol. 151; p. 958.
Speedograph, speedometer, and cyclometer, Combination. H. J. Sulzen. No. 946,170; Jan. 11; Sp. p. 2552; Gaz. vol. 150; p. 425.
Speedometer. J. H. Bullard. No. 947,788; Feb. 1; Sp. p. 22; Gaz. vol. 151; p. 6.
Speedometer. L. E. Blanchard. No. 950,833; Mar. 1; Sp. p. 799; Gaz. vol. 152; p. 127.
Speedometer. D. M. Bell. No. 957,727; May 10; Sp. p. 2595; Gaz. vol. 154; p. 449.
Speedometer. F. B. Healey and C S. Homsher. No. 957,773; May 10; Sp. p. 2699; Gaz. vol. 154; p. 464.
Speedometer. L. E. Blanchard. No. 961,676; June 14; Sp. p. 2965; Gaz. vol. 155; p. 513.
Speedometer. D. M. Bell. No. 961,835; June 21; Sp. p. 3306; Gaz. vol. 155; p. 589.
Speedometer. J. H. and E. W. Bullard. No. 967,168; Aug. 16; Sp. p. 2882; Gaz. vol. 157; p. 499.
Speedometer. W. P. Dun Lany. No. 976,054; Nov. 15; Sp. p. 4299; Gaz. vol. 160; p. 729.
Sphygmomanometer. M. Herz. No. 945,389; Jan. 4; Sp. p. 835; Gaz. vol. 150; p. 130.
Spice-mill. R. F. Cline. No. 973,761; Oct. 25; Sp. p. 4924; Gaz. vol. 159; p. 857.
Spigot, Measuring-. W. J. Hughes. No. 954,435; Apr. 12; Sp. p. 1555; Gaz. vol. 153; p. 286.
Spike. W. S. Crofutt. No. 956,844; May 3; Sp. p. 748; Gaz. vol. 154; p. 119.
Spike. G. Petecsola. No. 960,694; June 7; Sp. p. 931; Gaz. vol. 155; p. 154.
Spike. M. Mack. No. 969,382; Sept. 6; Sp. p. 499; Gaz. vol. 158; p. 79.
Spike. J. L. Jossart. No. 974,391; Nov. 1; Sp. p. 698; Gaz. vol. 160; p. 106.
Spike clamp and fastener. H. O. Crippen. No. 950,841; Mar. 1; Sp. p. 813; Gaz. vol. 152; p. 130.
Spike, Expansion key-. H. S. Patterson. No. 954,204; Apr. 5; Sp. p. 1078; Gaz. vol. 153; p. 182.
Spike-holder. H. O. Crippen. No. 953,987; Apr. 5; Sp. p. 604; Gaz. vol. 153; p. 108.
Spike, Pronged. W. T. M. Brady. No. 975,322; Nov. 8; Sp. p. 2808; Gaz. vol. 160; p. 454.
Spike-puller. W. L. Varner. No. 951,517; Mar. 8; Sp. p. 2146; Gaz. vol. 152; p. 372.
Spike-puller. W. T. Wilmer. No. 955,570; Apr. 19; Sp. p. 4027; Gaz. vol. 153; p. 706.
Spike-puller. P. J. Björk. No. 960,621; June 7; Sp. p. 788; Gaz. vol. 155; p. 129.
Spike-puller. J. B. Miller. No. 971,915; Oct. 4; Sp. p. 869; Gaz. vol. 159; p. 149.
Spike-puller. F. M. Williams. No. 978,684; Dec. 13; Sp. p. 2744; Gaz. vol. 161; p. 467.
Spike, Toothed. H. O. Crippen. No. 963,280; July 5; Sp. p. 647; Gaz. vol. 156; p. 90.
Spikenard, Milk extract of wild. F. M. Davis. No. 976,051; Nov. 15; Sp. p. 4295; Gaz. vol. 160; p. 728.
Spinal affections, Appliance for treatment of. J. W. Battershall. No. 970,781; Sept. 20; Sp. p. 3529; Gaz. vol. 158; p. 603.
Spindle: *See* Bobbin-spindle; Cop-spindle; Detachable spindle; False spindle; Loom shuttle-spindle; Mill-spindle; Socket-spindle; Spinning-spindle; Spinning-machine spindle.
Spindle and bearing for slubbing, spinning, twisting, or like machines. W. R. Erskine. No. 966,184; Aug. 2; Sp. p. 736; Gaz. vol. 157; p. 116.
Spindle-centering device. J. B. Nainteau and E. C. Rich. No. 952,931; Mar. 22; Sp. p. 5054; Gaz. vol. 152; p. 908.
Spindle-driving bands, Mechanism for guiding and tensioning. J. Boyd. No. 969,768; Sept. 13; Sp. p. 1334; Gaz. vol. 158; p. 236.
Spindle, Pneumatic. R. H. Moore. No. 961,307; June 14; Sp. p. 2177; Gaz. vol. 155; p. 389.
Spinning and doubling machine. E. Bebié. No. 951,932; Mar. 15; Sp. p. 2999; Gaz. vol. 152; p. 543.
Spinning and other purposes, Producing durable solutions for. R. Linkmeyer. No. 962,770; June 28; Sp. p. 5350; Gaz. vol. 155; p. 935.
Spinning and twisting device, Yarn. V. Bélanger. No. 950,507; Mar. 1; Sp. p. 99; Gaz. vol. 152; p. 16.
Spinning and twisting device, Yarn. V. Bélanger. No. 975,318; Nov. 8; Sp. p. 2801; Gaz. vol. 160; p. 452.
Spinning and twisting frame. T. A. and H. A. Boyd. No. 959,198; May 24; Sp. p. 6036; Gaz. vol. 154; p. 1009.
Spinning and twisting frames, Lappet for. J. W. Cook. No. 959,465; May 31; Sp. p. 6580; Gaz. vol. 154; p. 1123.
Spinning and twisting frames, Latch for cotton ring. J. C. Ballard and J. F. Bynum. No. 969,443; Sept. 6; Sp. p. 617; Gaz. vol. 158; p. 98.
Spinning and twisting machine. R. Dawes. No. 959,316; May 24; Sp. p. 6264; Gaz. vol. 154; p. 1048.
Spinning and twisting machines, Doffer-guard for. R. S. Matteson. No. 953,387; Mar. 29; Sp. p. 6055; Gaz. vol. 152; p. 1087.
Spinning and twisting rings, Holding means for. A. C. Rhodes. No. 945,805; Jan. 11; Sp. p. 1767; Gaz. vol. 150; p. 296.
Spinning and weaving purposes the vegetable fibers contained in straw, grasses, bast, harl, and the like, Opening for. F. A. Reichmann. No. 946,272; Jan. 11; Sp. p. 2779; Gaz. vol. 150; p. 462.
Spinning apparatus, Traverse-motion for yarn.- A. E. Rhoades. No. 954,343; Apr. 5; Sp. p. 1380; Gaz. vol. 153; p. 229.
Spinning apparatus, Traverse-motion for yarn-. S. R. Truesdale. No. 974,614; Nov. 1; Sp. p. 1221; Gaz. vol. 160; p. 188.
Spinning apparatus, Yarn-. J. P. O'Connell. No. 949,733; Feb. 15; Sp. p. 4061; Gaz. vol. 151; p. 705.
Spinning artificial threads and the like, Producing solutions for. R. Linkmeyer. No. 945,559; Jan. 4; Sp. p. 1196; Gaz. vol. 150; p. 185.
Spinning device. W. B. Gilmore. No. 945,934; Jan. 11; Sp. p. 2071; Gaz. vol. 150; p. 344.
Spinning device. W. B. Gilmore. No. 967,756; Aug. 16; Sp. p. 4076; Gaz. vol. 157; p. 698.
Spinning, doubling, and twisting machine. S. Z. de Ferranti. No. 970,617; Sept. 20; Sp. p. 3135; Gaz. vol. 158; p. 546.
Spinning frames, Automatic doffer for fly-. N. R. Newsholme. No. 954,688; Apr. 12; Sp. p. 2128; Gaz. vol. 153; p. 373.
Spinning-frames, Builder-motion in. J. F. Muheim. No. 949,399; Feb. 15; Sp. p. 3415; Gaz. vol. 151; p. 597.
Spinning-machine. F. S. Culver. No. 946,203; Jan. 11; Sp. p. 2624; Gaz. vol. 150; p. 436.
Spinning-machine. F. S. Culver and L. J. Morin. No. 967,333; Aug. 16; Sp. p. 3212; Gaz. vol. 157; p. 556.
Spinning-machine. S. Z. de Ferranti. No. 970,203; Sept. 13; Sp. p. 2274; Gaz. vol. 158; p. 385.
Spinning-machine. F. S. Culver and L. J. Morin. No. 974,030; Oct. 25; Sp. p. 5488; Gaz. vol. 159; p. 951.
Spinning machine, Cap-. P. J. Moroney. No. 977,323; Nov. 29; Sp. p. 7136; Gaz. vol. 160; p. 1215.
Spinning-machine doffer-guard. R. S. Matteson. No. 948,650; Feb. 8; Sp. p. 1846; Gaz. vol. 151; p. 318.
Spinning machine, Ring-. A. G. Koechlin. No. 965,306; July 26; Sp. p. 4977; Gaz. vol. 156; p. 857.
Spinning-machine spindle. J. V. Cunniff. No. 970,189; Sept. 13; Sp. p. 2230; Gaz. vol. 158; p. 379.
Spinning-machine thread-guide support. W. Forget. No. 951,310; Mar. 8; Sp. p. 1723; Gaz. vol. 152; p. 304.
Spinning-machines, &c., Stop-motion mechanism for. O. Agel and C. F. Isleib. No. 957,453; May 10; Sp. p. 2053; Gaz. vol. 154; p. 356.
Spinning machines, Waste-cleaner for ring-. R. Koref. No. 954,975; Apr. 12; Sp. p. 2801; Gaz. vol. 153; p. 474.
Spinning machinery. C. T. Atherton. No. 954,012; Apr. 5; Sp. p. 650; Gaz. vol. 153; p. 116.
Spinning-mule. W. D. Rundlett. No. 953,801; Apr. 5; Sp. p. 237; Gaz. vol. 153; p. 42.
Spinning or twisting apparatus, Spindle-brake for. A. E. Rhoades. No. 977,751; Dec. 6; Sp. p. 727; Gaz. vol. 161; p. 114.
Spinning or twisting machine yarn or thread guide. I. E. Palmer. No. 961,421; June 14; Sp. p. 2416; Gaz. vol. 155; p. 427.

Spinning or twisting machines, Thread-board for. E. Whittum. No. 956,248; Apr. 26; Sp. p. 5563; Gaz. vol. 153; p. 970.
Spinning paper threads, Machine for. A. Funke. No. 974,132; Nov. 1; Sp. p. 53; Gaz. vol. 160; p. 12.
Spinning-ring. E. A. Brigham. No. 956,930; May 3; Sp. p. 931; Gaz. vol. 154; p. 148.
Spinning-ring. C. S. Forbes. No. 957,759; May 10; Sp. p. 2673; Gaz. vol. 154; p. 459.
Spinning-ring holder, Rotary-. B. Hall. No. 952,804; Mar. 22; Sp. p. 4805; Gaz. vol. 152; p. 864.
Spinning-rings, Means for retaining and delivering travelers for. L. S. Burbank. No. 945,907; Jan. 11; Sp. p. 2012; Gaz. vol. 150; p. 334.
Spinning-spindle. C. Bergmann and H. O. Klötzer. No. 953,813; Apr. 5; Sp. p. 265; Gaz. vol. 153; p. 47.
Spinning viscous liquids, Machine for. E. Elsässer. No. 957,460; May 10; Sp. p. 2065; Gaz. vol. 154; p. 358.
Spiral separator. F. H. Blatch. No. 976,980; Nov. 29; Sp. p. 6422; Gaz. vol. 160; p. 1097.
Spiral separator. F. Pardee. No. 977,037; Nov. 29; Sp. p. 6540; Gaz. vol. 160; p. 1116.
Spirit-purifying process and apparatus. J. E. Carroll. No. 968,833; Aug. 30; Sp. p. 6394; Gaz. vol. 157; p. 1115.
Spirits, Manufacturing of purified potable. P. A. Brangier. No. 969,332; Sept. 6; Sp. p. 380; Gaz. vol. 158; p. 62.
Spirometer. L. D. Childs. No. 952,307; Mar. 15; Sp. p. 3726; Gaz. vol. 152; p. 667.
Spirometer. G. W. Ramage. No. 966,050; Aug. 2; Sp. p. 451; Gaz. vol. 157; p. 72.
Spittoon. W. C. McGinnis. No. 967,225; Aug. 16; Sp. p. 2996; Gaz. vol. 157; p. 518.
Spittoon. J. B. Pate. No. 977,218; Nov. 29; Sp. p. 6939; Gaz. vol. 160; p. 1179.
Spittoons, Apparatus for cleansing medical. L. Thième and M. Gläser. No. 962,931; June 28; Sp. p. 5651; Gaz. vol. 155; p. 989.
Splice attachment. D. Ambrose. No. 975,199; Nov. 8; Sp. p. 2552; Gaz. vol. 160; p. 412.
Splice-bar. F. A. Schroeder. No. 947,581; Jan. 25; Sp. p. 5757; Gaz. vol. 150; p. 956.
Splice-bar. T. C. Lackland. No. 951,009; Mar. 1; Sp. p. 1123; Gaz. vol. 152; p. 182.
Splice-bar. A. W. Stricker. No. 952,959; Mar. 22; Sp. p. 5107; Gaz. vol. 152; p. 917.
Splice-bar. R. J. Crescenzi. No. 964,398; July 12; Sp. p. 2945; Gaz. vol. 156; p. 487.
Splice-bar. S. G. Davis. No. 970,430; Sept. 13; Sp. p. 2722; Gaz. vol. 158; p. 459.
Splice-bar lock. E. S. Shipman. No. 961,031; June 7; Sp. p. 1591; Gaz. vol. 155; p. 266.
Splicer. A. Absalom and J. B. Maris. No. 948,985; Feb. 15; Sp. p. 2537; Gaz. vol. 151; p. 457.
Splicing device. A. F. Altheide. No. 961,201; June 14; Sp. p. 1945; Gaz. vol. 155; p. 352.
Splint-cutting machine. A. H. Hall. No. 963,141; July 5; Sp. p. 294; Gaz. vol. 156; p. 41.
Splints, Machine for assembling and screening. L. A. Clinton. No. 952,512; Mar. 22; Sp. p. 4144; Gaz. vol. 152; p. 763.
Spoke and felly clip. J. Humphreys. No. 956,806; May 3; Sp. p. 657; Gaz. vol. 154; p. 104.
Spoke-extractor. J. Messinger. No. 966,461; Aug. 9; Sp. p. 1300; Gaz. vol. 157; p. 233.
Spoke-socket. J. Markwick. No. 947,390; Jan. 25; Sp. p. 5305; Gaz. vol. 150; p. 891.
Spoke-socket. C. E. Brown. No. 956,035; Apr. 26; Sp. p. 5072; Gaz. vol. 153; p. 897.
Spoke-socket. J. Markwick. No. 978,045; Dec. 6; Sp. p. 1342; Gaz. vol. 161; p. 215.
Spoke-tenoning machine. G. Avery. No. 964,738; July 19; Sp. p. 3820; Gaz. vol. 156; p. 635.
Spoke-tightening device. R. Weidermann. No. 952,487; Mar. 22; Sp. p. 4103; Gaz. vol. 152; p. 756.
Sponge-cloth wringer. A. Levin. No. 951,689; Mar. 8; Sp. p. 2479; Gaz. vol. 152; p. 430.
Sponge-sheet. R. A. Dunning. No. 960,855; June 7; Sp. p. 1243; Gaz. vol. 155; p. 207.
Sponging apparatus for tailors. B. Paskowitz. No. 973,875; Oct. 25; Sp. p. 5167; Gaz. vol. 159; p. 897.
Spool. C. Omeliah. No. 948,430; Feb. 8; Sp. p. 1371; Gaz. vol. 151; p. 244.
Spool. G. K. Anderson. No. 949,641; Feb. 15; Sp. p. 3883; Gaz. vol. 151; p. 676.
Spool. J. D. Chaffee. No. 956,284; Apr. 26; Sp. p. 5628; Gaz. vol. 153; p. 983.
Spool. M. Leitch. No. 976,381; Nov. 22; Sp. p. 5097; Gaz. vol. 160; p. 865.
Spool. M. Leitch. No. 976,382; Nov. 22; Sp. p. 5099; Gaz. vol. 160; p. 865.
Spool and work holder. K. Culver. No. 970,470; Sept. 20; Sp. p. 2833; Gaz. vol. 158; p. 495.
Spool, Extension-. P. J. Meahl. No. 952,708; Mar. 22; Sp. p. 4591; Gaz. vol. 152; p. 832.
Spool-holder. J. V. Newton. No. 961,637; June 14; Sp. p. 2889; Gaz. vol. 155; p. 499.
Spool-holder. J. L. Bueb. No. 966,650; Aug. 9; Sp. p. 1740; Gaz. vol. 157; p. 297.
Spool-holder. S. P. Williamson. No. 966,877; Aug. 9; Sp. p. 2271; Gaz. vol. 157; p. 372.
Spool-holder. A. Musk. No. 971,209; Sept. 27; Sp. p. 4415; Gaz. vol. 158; p. 774.
Spool-holder. V. H. Canham. No. 972,160; Oct. 11; Sp p. 1415; Gaz. vol. 159; p. 254.
Spool-holder. M. J. Eidam. No. 973,861; Oct. 25; Sp. p. 5130; Gaz. vol. 159; p. 891.
Spool-holder, Factory. A. S. Nichols. No. 945,188; Jan. 4; Sp. p. 372; Gaz. vol. 150; p. 62.
Spool, Jack-. J. C. Hebden and F. H. Daniell. No. 974,139; Nov. 1; Sp. p. 63; Gaz. vol. 160; p. 14.
Spool, Metallic take-up. P. Welin. No. 971,866; Oct. 4; Sp. p. 760; Gaz. vol. 159; p. 132.
Spool of pasteboard, cardboard, or similar material. A. Schmidt. No. 974,603; Nov. 1; Sp. p. 1197; Gaz. vol. 160; p. 183.
Spool or reel for tape or the like. B. J. Riley. No. 947,997; Feb. 1; Sp. p. 454; Gaz. vol. 151; p. 73.
Spooler. A. E. Rhoades. No. 953,294; Mar. 29; Sp. p. 5840; Gaz. vol. 152; p. 1055.
Spoon. M. V. Putnam. No. 972,244; Oct. 11; Sp. p. 1606; Gaz. vol. 159; p. 282.
Spoon-gage. F. N. Cronholm. No. 969,845; Sept. 13; Sp. p. 1530; Gaz. vol. 158; p. 262.
Spoon-holder. G. C. Folckemer. No. 975,683; Nov. 15; Sp. p. 3580; Gaz. vol. 160; p. 603.
Spot-cleaner. G. Malmros and F. F. Adams. No. 970,069; Sept. 13; Sp. p. 2007; Gaz. vol. 158; p. 340.
Spotting-machine. H. S. Kemp. No. 948,509; Feb. 8; Sp. p. 1538; Gaz. vol. 151; p. 271.
Spout, Detachable pouring-. H. A. Searle. No. 945,346; Jan. 4; Sp. p. 747; Gaz. vol. 150; p. 114.
Spout for water-columns. F. C. Anderson. No. 965,849; Aug. 2; Sp. p. 5; Gaz. vol. 157; p. 4.
Spout-hanger. F. W. Thomas. No. 972,291; Oct. 11; Sp. p. 1698; Gaz. vol. 159; p. 299.
Spout, Multiple tapping-. W. MacGregor. No. 972,885; Oct. 18; Sp. p. 3016; Gaz. vol. 159; p. 531.
Spray-burner. E. C. Carnt and A. Forster. No. 952,306; Mar. 15; Sp. p. 3722; Gaz. vol. 152; p. 666.
Spray-burner. A. T. Rigg. No. 966,124; Aug. 2; Sp. p. 589; Gaz. vol. 157; p. 96.
Spray device. C. Revaillot. No. 952,947; Mar. 22; Sp. p. 5087; Gaz. vol. 152; p. 913.
Spray-head. J. H. Kinealy. No. 949,360; Feb. 15; Sp. p. 3321; Gaz. vol. 151; p. 582.
Spray-head. D. M. Luehrs. No. 962,512; June 28; Sp. p. 4795; Gaz. vol. 155; p. 845.
Spray, Plant-. A. Taplin. No. 952,152; Mar. 15; Sp. p. 3419; Gaz. vol. 152; p. 615.
Spray plug, Fractional-. W. G. Taylor. No. 968,095; Aug. 23; Sp. p. 4806; Gaz. vol. 157; p. 835.
Sprayer. R. B. Williamson. No. 951,895; Mar. 15; Sp. p. 2929; Gaz. vol. 152; p. 530.
Sprayer. W. H. Ireland. No. 955,405; Apr. 19; Sp. p. 3701; Gaz. vol. 153; p. 650.
Sprayer. H. Mikorey. No. 955,418; Apr. 19; Sp. p. 3723; Gaz. vol. 153; p. 654.
Sprayer. T. B. Barnes. No. 963,979; July 12; Sp. p. 2116; Gaz. vol. 156; p. 346.
Sprayer for glue, paint, &c. H. Mikorey. No. 945,338; Jan. 4; Sp. p. 730; Gaz. vol. 150; p. 112.
Sprayer or disperser, Color. H. Mikorey. No. 978,469; Dec. 13; Sp. p. 2267; Gaz. vol. 161; p. 393.
Sprayer, Scalp-. T. A. De Vilbiss. No. 946,538; Jan. 18; Sp. p. 3444; Gaz. vol. 150; p. 579.
Sprayer-support, Pendent. W. H. Maxwell. No. 955,342; Apr. 19; Sp. p. 3558; Gaz. vol. 153; p. 629.
Sprayer, Tree-. F. G. Hayes. No. 950,916; Mar. 1; Sp. p. 951; Gaz. vol. 152; p. 152.
Sprayer, Tree-. F. M. Thomas. No. 967,266; Aug. 16; Sp. p. 3071; Gaz. vol. 157; p. 532.
Spraying apparatus. W. B. Inglis. No. 956,101; Apr. 26; Sp. p. 5229; Gaz. vol. 153; p. 919.
Spraying apparatus. J. I. Thornycroft. No. 957,014; May 3; Sp. p. 1116; Gaz. vol. 154; p. 175.
Spraying apparatus. W. G. R. Braemer. No. 963,354; July 5; Sp. p. 783; Gaz. vol. 156; p. 115.
Spraying apparatus. S. Trudeau. No. 974,540; Nov. 1; Sp. p. 1078; Gaz. vol. 160; p. 161.
Spraying apparatus. M. B. Brooks. No. 974,640; Nov. 1; Sp. p. 1282; Gaz. vol. 160; p. 197.
Spraying attachment. C. H. Rath. No. 958,536; May 17; Sp. p. 4631; Gaz. vol. 154; p. 761.
Spraying attachment for bath-tubs. R. R. Sandham. No. 963,812; July 12; Sp. p. 1756; Gaz. vol. 156; p. 291.
Spraying attachment for bath-tubs. R. R. Sandham. No. 963,945; July 12; Sp. p. 2026; Gaz. vol. 156; p. 334.
Spraying device. W. Ahlen. No. 961,195; June 14; Sp. p. 1935; Gaz. vol. 155; p. 350.
Spraying device. G. A. Urbach. No. 968,210; Aug. 23; Sp. p. 5068; Gaz. vol. 157; p. 874.
Spreading-machine. I. C. Fielden. No. 950,617; Mar. 1; Sp. p. 328; Gaz. vol. 152; p. 53.
Spraying-machine. J. G. Mastin. No. 961,456; June 14; Sp. p. 2499; Gaz. vol. 155; p. 440.
Spraying-machine. J. D. Wallace. No. 978,082; Dec. 6; Sp. p. 1416; Gaz. vol. 161; p. 229.

Alphabetical list of inventions—Continued.

Spraying-solution mixer. A. Macrae. No. 968,582; Aug. 30; Sp. p. 5848; Gaz. vol. 157; p. 1031.
Spring: *See* Air-spring; Automobile auxiliary spring; Auxiliary spring; Bed-spring; Bolster-spring; Buggy-boot spring; Car-vestibule-diaphragm spring; Door-spring; Door-closing spring; Door-fastener spring; Elliptic spring; Eyeglass-spring; Gate-spring; Heel-spring; Pneumatic spring; Shaft-spring; Timepiece-spring; Vehicle-spring; Vehicle auxiliary spring; Weft-fork spring; Wire spring.
Spring. C. A. Lieb. No. 945,336; Jan. 4; Sp. p. 725; Gaz. vol. 150; p. 111.
Spring-attaching clip. L. A. Young. No. 976,973; Nov. 29; Sp. p. 6408; Gaz. vol. 160; p. 1095.
Spring attachment. C. R. Barker. No. 949,738; Feb. 15; Sp. p. 4073; Gaz. vol. 151; p. 707.
Spring attachment. W. Bramham. No. 972,806; Oct. 18; Sp. p. 2806; Gaz. vol. 159; p. 502.
Spring-board attachment. L. Rice. No. 952,139; Mar. 15; Sp. p. 3395; Gaz. vol. 152; p. 611.
Spring-check. B. B. Mears. No. 950,773; Mar. 1; Sp. p. 678; Gaz. vol. 152; p. 108.
Spring-clip for reinforcing-bars. J. L. Brownlee. No. 977,704; Dec. 6; Sp. p. 646; Gaz. vol. 161; p. 98.
Spring constructed with india-rubber, Buffer and other. A. G. Spencer. No. 971,415; Sept. 27; Sp. p. 4798; Gaz. vol. 158; p. 840.
Spring construction. W. R. Smith. No. 975,579; Nov. 15; Sp. p. 3350; Gaz. vol. 160; p. 568.
Spring construction. J. H. Snuggs. No. 976,104; Nov. 15; Sp. p. 4412; Gaz. vol. 160; p. 747.
Spring-cushion. P. Knuppen. No. 975,695; Nov. 15; Sp. p. 3599; Gaz. vol. 160; p. 607.
Spring for flexible connections. J. H. O'Brien. No. 975,274; Nov. 8; Sp. p. 2699; Gaz. vol. 160; p. 436.
Spring-fork. M. Schenck. No. 948,743; Feb. 8; Sp. p. 2044; Gaz. vol. 151; p. 349.
Spring-jack structure. H. J. Kusel. No. 962,847; June 28; Sp. p. 5495; Gaz. vol. 155; p. 961.
Spring locking-washer. S. W. Wilkinson, W. Gregory, E. C. and R. Jenkins. No. 966,973; Aug. 9; Sp. p. 2458; Gaz. vol. 157; p. 405.
Spring-motor. C. H. Von Hohenstein. No. 954,602; Apr. 12; Sp. p. 1935; Gaz. vol. 153; p. 343.
Spring-motor. Z. C. Seeders. No. 969,201; Sept. 6; Sp. p. 130; Gaz. vol. 158; p. 21.
Spring-seat. W. B. Speir. No. 950,061; Feb. 22; Sp. p. 4859; Gaz. vol. 151; p. 855.
Spring-seat. F. S. Rickerd. No. 976,396; Nov. 22; Sp. p. 5136; Gaz. vol. 160; p. 871.
Spring-seat structures, Border-wire reinforcement for. L. A. Young, No. 970,157; Sept. 13; Sp. p. 2159; Gaz. vol. 158; p. 368.
Spring-support. A. G. Bodenstein. No. 948,493; Feb. 8; Sp. p. 1511; Gaz. vol. 151; p. 267.
Spring suspension device, Vehicle-. K. E. Deussen. No. 969,463; Sept. 6; Sp. p. 645; Gaz. vol. 158; p. 103.
Spring-switch. A. R. Murray. No. 946,391; Jan. 11; Sp. p. 3120; Gaz. vol. 150; p. 502.
Spring-trap. N. Libison. No. 946,608; Jan. 18; Sp. p. 3572; Gaz. vol. 150; p. 601.
Spring-trip. C. C. Flambo. No. 959,727; May 31; Sp. p. 7126; Gaz. vol. 154; p. 1210.
Spring trip-foot. J. C. Vance. No. 949,785; Feb. 22; Sp. p. 4194; Gaz. vol. 151; p. 757.
Spring trip mechanism. J. C. Messer. No. 957,432; May 10; Sp. p. 2017; Gaz. vol. 154; p. 349.
Spring-wheel. A. R. Miskin. No. 950,942; Mar. 1; Sp. p. 1009; Gaz. vol. 152; p. 161.
Spring-wheel. J. R. Place. No. 953,549; Mar. 29; Sp. p. 6392; Gaz. vol. 152; p. 1145.
Spring-wheel. P. M. Kling. No. 954,522; Apr. 12; Sp. p. 1765; Gaz. vol. 153; p. 317.
Spring-wheel. P. M. Kling. No. 954,523; Apr. 12; Sp. p. 1767; Gaz. vol. 153; p. 317.
Spring-wheel. W. R. Gardner. No. 955,258; Apr. 19; Sp. p. 3378; Gaz. vol. 153; p. 602.
Spring-wheel. F. P. Prendergast. No. 955,545; Apr. 19; Sp. p. 3979; Gaz. vol. 153; p. 698.
Spring-wheel. E. Schuyler and W. A. Hyle. No. 957,383; May 10; Sp. p. 1909; Gaz. vol. 154; p. 332.
Spring-wheel. M. Pressler. No. 957,574; May 10; Sp. p. 2289; Gaz. vol. 154; p. 396.
Spring-wheel. F. Westerbeck. No. 960,749; June 7; Sp. p. 1030; Gaz. vol. 155; p. 173.
Spring-wheel. G. H. Williams. No. 961,278; June 14; Sp. p. 2116; Gaz. vol. 155; p. 379.
Spring-wheel. P. J. Hovland. No. 963,565; July 5; Sp. p. 1209; Gaz. vol. 156; p. 186.
Spring-wheel. L. Blessing. No. 963,742; July 12; Sp. p. 1594; Gaz. vol. 156; p. 267.
Spring-wheel. J. Lee. No. 964,979; July 19; Sp. p. 4300; Gaz. vol. 156; p. 717.
Spring-wheel. J. P. Paulissen. No. 965,122; July 19; Sp. p. 4583; Gaz. vol. 156; p. 765.
Spring-wheel. C. J. Bailey and W. Jansen. No. 966,296; Aug. 2; Sp. p. 955; Gaz. vol. 157; p. 152.
Spring-wheel. W. Brown. No. 968,643; Aug. 30; Sp. p. 5980; Gaz. vol. 157; p. 1051.
Spring-wheel. G. E. Friesen. No. 970,486; Sept. 20; Sp. p. 2862; Gaz. vol. 158; p. 500.
Spring-wheel. A. Kneip. No. 970,835; Sept. 20; Sp. p. 3650; Gaz. vol. 158; p. 623.
Spring-wheel. F. C. Oldham. No. 971,067; Sept. 27; Sp. p. 4108; Gaz. vol. 158; p. 727.
Spring-wheel. R. and G. H. Welford. No. 972,136; Oct. 4; Sp. p. 1342; Gaz. vol. 159; p. 226.
Spring-wheel. J. Stallings. No. 972,280; Oct. 11; Sp. p. 1678; Gaz. vol. 159; p. 295.
Spring-wheel. A. J. Frogue and M. A. Weber. No. 973,769; Oct. 25; Sp. p. 4943; Gaz. vol. 159; p. 860.
Spring-wheel. E. W. Jenkins. No. 974,155; Nov. 1; Sp. p. 97; Gaz. vol. 160; p. 19.
Spring-wheel. L. Blessing. No. 974,347; Nov. 1; Sp. p. 613; Gaz. vol. 160; p. 92.
Spring-wheel. G. E. Garon. No. 974,765; Nov. 1; Sp. p. 1553; Gaz. vol. 160; p. 239.
Spring-wheel. M. W. Peck. No. 974,815; Nov. 8; Sp. p. 1664; Gaz. vol. 160; p. 279.
Spring-wheel. A. Moore. No. 975,630; Nov. 15; Sp. p. 3449; Gaz. vol. 160; p. 585.
Spring-wheel. D. Kiser. No. 976,660; Nov. 22; Sp. p. 5689; Gaz. vol. 160; p. 962.
Spring-wheel. H. P. Petersen. No. 976,686; Nov. 22; Sp. p. 5723; Gaz. vol. 160; p. 969.
Spring-wheel. J. A. Wible. No. 976,762; Nov. 22; Sp. p. 5893; Gaz. vol. 160; p. 995.
Spring-wheel. Z. A. and R. D. Bruegger. No. 977,368; Nov. 29; Sp. p. 7256; Gaz. vol. 160; p. 1231.
Spring-wheel for vehicles. W. Ackerman. No. 946,091; Jan. 11; Sp. p. 2388; Gaz. vol. 150; p. 397.
Spring-wheel, Vehicle. C. F. Quick. No. 967,553; Aug. 16; Sp. p. 3665; Gaz. vol. 157; p. 630.
Spring-winding device. S. Butterworth. No. 963,512; July 5; Sp. p. 1097; Gaz. vol. 156; p. 167.
Spring-winding machine. F. Schaefer. No. 949,306; Feb. 15; Sp. p. 3195; Gaz. vol. 151; p. 563.
Springs, Connection of helical. R. Frommer. No. 949,466; Feb. 15; Sp. p. 3541; Gaz. vol. 151; p. 617.
Springs, Machine for forming loops on coil-. C. R. Barrett. No. 971,238; Sept. 27; Sp. p. 4478; Gaz. vol. 158; p. 783.
Springs, Machine for tapering coiled. G. H. Scott. No. 964,701; July 19; Sp. p. 3745; Gaz. vol. 156; p. 622.
Springs, Mechanism for squaring the ends of spiral. C. W. Peck. No. 953,178; Mar. 29; Sp. p. 5592; Gaz. vol. 152; p. 1018.
Springs, Separator for elliptic. W. G. Price. No. 960,396; June 7; Sp. p. 328; Gaz. vol. 155; p. 55.
Springless lock. P. J. O'Brien. No. 947,996; Feb. 1; Sp. p. 452; Gaz. vol. 151; p. 73.
Springwork. M. H. Naber. No. 969,390; Sept. 6; Sp. p. 511; Gaz. vol. 158; p. 81.
Sprinkler: *See* Ash-sprinkler; Automatic sprinkler; Lawn-sprinkler; Water-sprinkler.
Sprinkler. C. C. Corlew. No. 958,229; May 17; Sp. p. 3865; Gaz. vol. 154; p. 653.
Sprinkler. U. A. Peters. No. 960,393; June 7; Sp. p. 323; Gaz. vol. 155; p. 53.
Sprinkler. W. Storey. No. 963,089; July 5; Sp. p. 128; Gaz. vol. 156; p. 22.
Sprinkler. J. R. Barnes. No. 974,628; Nov. 1; Sp. p. 1255; Gaz. vol. 160; p. 193.
Sprinkler. C. A. Borgeson. No. 975,321; Nov. 8; Sp. p. 2806; Gaz. vol. 160; p. 453.
Sprinkler. E. Price. No. 979,199; Dec. 20; Sp. p. 3874; Gaz. vol. 161; p. 670.
Sprinkler. L. I. Coonradt. No. 979,382; Dec. 20; Sp. p. 4234; Gaz. vol. 161; p. 730.
Sprinkler alarm and indicator, Automatic. F. W. Milliken. No. 977,391; Nov. 29; Sp. p. 7292; Gaz. vol. 160; p. 1238.
Sprinkler-head, Automatic. T. Gaynor, Jr. No. 968,144; Aug. 23; Sp. p. 4913; Gaz. vol. 157; p. 852.
Sprinkler-head shield. F. E. Opitz and B. F. Caldwell. No. 964,178; July 12; Sp. p. 2514; Gaz. vol. 156; p. 413.
Sprinklers, Power set for automatic. E. A. Rix. No. 952,640; Mar. 22; Sp. p. 4447; Gaz. vol. 152; p. 810.
Sprinklers, Strut for automatic. G. I. Rockwood. No. 956,733; May 3; Sp. p. 502; Gaz. vol. 154; p. 81.
Sprinkling apparatus. N. Bacigalupi. No. 951,519; Mar. 8; Sp. p. 2150; Gaz. vol. 152; p. 373.
Sprinkling apparatus. G. W. McCoole. No. 972,396; Oct. 11; Sp. p. 1907; Gaz. vol. 159; p. 335.
Sprinkling device. J. F. Smith. No. 961,906; June 21; Sp. p. 3464; Gaz. vol. 155; p. 615.
Sprinkling-pipe. O. J. Kennedy. No. 978,597; Dec. 13; Sp. p. 2569; Gaz. vol. 161; p. 438.
Sprocket. W. Dorton and J. S. Boyer. No. 975,753; Nov. 15; Sp. p. 3714; Gaz. vol. 160; p. 626.
Sprocket-gear. D. H. Downey. No. 975,938; Nov. 15; Sp. p. 4089; Gaz. vol. 160; p. 690.
Sprocket-wheel. F. W. Schandoney and W. J. Hall. No. 946,582; Jan. 18; Sp. p. 3512; Gaz. vol. 150; p. 592.
Sprocket-wheel. W. W. Willson. No. 948,385; Feb. 8; Sp. p. 1280; Gaz. vol. 151; p. 230.
Sprocket-wheel. J. M. Dodge. No. 954,939; Apr. 12; Sp. p. 2727; Gaz. vol. 153; p. 461.
Sprocket-wheel. J. M. Dodge. No. 954,940; Apr. 12; Sp. p. 2728; Gaz. vol. 153; p. 462.

Sprocket-wheel. J. M. Dodge. No. 954,941; Apr. 12; Sp. p. 2730; Gaz. vol. 153; p. 462.
Sprocket-wheel. F. R. Willson, Jr. No. 960,756; June 7; Sp. p. 1042; Gaz. vol. 155; p. 176.
Sprocket-wheel, Detachable. O. Cullman. No. 958,955; May 24; Sp. p. 5532; Gaz. vol. 154; p. 928.
Sprocket-wheel, Sectional. C. Woolnough and G. F. Wheeler. No. 969,237; Sept. 6; Sp. p. 197; Gaz. vol. 158; p. 32.
Spruc. C. J. Prowse. No. 968,799; Aug. 30; Sp. p. 6335; Gaz. vol. 157; p. 1104.
Spur. G. Buermann. No. 969,839; Sept. 13; Sp. p. 1517; Gaz. vol. 158; p. 260.
Spur. W. M. McKinney. No. 973,367; Oct. 18; Sp. p. 4092; Gaz. vol. 159; p. 699.
Sputum-cup. G. D. Eddy. No. 970,480; Sept. 20; Sp. p. 2851; Gaz. vol. 158; p. 498.
Sputum-cup and holder therefor. C. W. Meinecke. No. 963,454; July 5; Sp. p. 988; Gaz. vol. 156; p. 148.
Sputum-cup, Pocket. J. A. Brooke. No. 965,276; July 26; Sp. p. 4907; Gaz. vol. 156; p. 846.
Sputum-receptacle. W. L. Gerard. No. 975,854; Nov. 15; Sp. p. 3920; Gaz. vol. 160; p. 661.
Square. A. B. Jennings. No. 962,149; June 21; Sp. p. 4015; Gaz. vol. 155; p. 697.
Square. N. B. McGrath. No. 964,998; July 19; Sp. p. 4341; Gaz. vol. 156; p. 724.
Square. J. W. Deardorff. No. 965,088; July 19; Sp. p. 4527; Gaz. vol. 156; p. 754.
Square. C. H. Caldwell. No. 972,330; Oct. 11; Sp. p. 1768; Gaz. vol. 159; p. 311.
Square, Adjustable double. G. W. Fieldhouse. No. 974,479; Nov. 1; Sp. p. 927; Gaz. vol. 160; p. 138.
Square and bevel. F. E. Powell. No. 960,196; May 31; Sp. p. 8158; Gaz. vol. 154; p. 1372.
Square and bevel, Combination. J. O. Thomas. No. 973,584; Oct. 25; Sp. p. 4553; Gaz. vol. 159; p. 794.
Square and protractor. G. Hennigar and R. Teneyck. No. 975,036; Nov. 8; Sp. p. 2181; Gaz. vol. 160; p. 355.
Square and rule, Combination. C. H. Peterson. No. 954,460; Apr. 12; Sp. p. 1627; Gaz. vol. 153; p. 296.
Square, Caliper-. R. B. Ware. No. 945,144; Jan. 4; Sp. p. 273; Gaz. vol. 150; p. 48.
Square, Carpenter's. J. Barker. No. 952,177; Mar. 15; Sp. p. 3457; Gaz. vol. 152; p. 622.
Square, Carpenter's. F. W. Royal. No. 975,079; Nov. 8; Sp. p. 2268; Gaz. vol. 160; p. 370.
Square, Carpenter's. D. W. Montague. No. 975,268; Nov. 8; Sp. p. 2687; Gaz. vol. 160; p. 434.
Square, Carpenter's steel. J. Barker. No. 952,176; Mar. 15; Sp. p. 3456; Gaz. vol. 152; p. 622.
Square, Folding. P. Krichbaum. No. 968,958; Aug. 30; Sp. p. 6646; Gaz. vol. 157; p. 1157.
Square, Geometrical miter-. W. Bundy. No. 963,274; July 5; Sp. p. 630; Gaz. vol. 156; p. 88.
Square holder, T-. C. White. No. 977,765; Dec. 6; Sp. p. 766; Gaz. vol. 161; p. 119.
Square holes, Device for forming. C. A. Brown. No. 956,474; Apr. 26; Sp. p. 6046; Gaz. vol. 153; p. 1048.
Square, Jointed. A. Stevens. No. 975,581; Nov. 15; Sp. p. 3353; Gaz. vol. 160; p. 569.
Square or gaging device. J. T. Blair. No. 945,684; Jan. 4; Sp. p. 1446; Gaz. vol. 150; p. 226.
Square, scratch-gage, and compass, Combination T-. F. J. O'Neil. No. 970,641; Sept. 20; Sp. p. 3220; Gaz. vol. 158; p. 554.
Square, Separable. S. C. Humphries. No. 971,615; Oct. 4; Sp. p. 230; Gaz. vol. 159; p. 41.
Square, Steel. J. Weston. No. 968,503; Aug. 23; Sp. p. 5670; Gaz. vol. 157; p. 977.
Square, T-. V. Krajiček. No. 970,625; Sept. 20; Sp. p. 3195; Gaz. vol. 158; p. 549.
Square, Try-. C. G. Larson. No. 958,257; May 17; Sp. p. 3933; Gaz. vol. 154; p. 662.
Square, Try-. M. Dickson. No. 971,529; Oct. 4; Sp. p. 37; Gaz. vol. 159; p. 9.
Square, Universal. D. C. Meeker. No. 965,312; July 26; Sp. p. 4992; Gaz. vol. 156; p. 859.
Squares, Pitch-gage attachment for. J. Parkhill. No. 979,996; Dec. 27; Sp. p. 5560; Gaz. vol. 161; p. 961.
Squeegee, Fountain-. C. Brown. No. 956,566; May 3; Sp. p. 122; Gaz. vol. 154; p. 23.
Squeegee or window cleaner. J. R. Lane. No. 948,630; Feb. 8; Sp. p. 1805; Gaz. vol. 151; p. 310.
Squeezer. R. B. Gilchrist. No. 952,519; Mar. 22; Sp. p. 4160; Gaz. vol. 152; p. 766.
Stable composition containing hydrogen peroxid. M. A. Queisser. No. 959,605; May 31; Sp. p. 6879; Gaz. vol. 154; p. 1171.
Stack and shed cover. A. Butler. No. 960,270; June 7; Sp. p. 64; Gaz. vol. 155; p. 14.
Stack-cover. I. C. and W. W. Van Dusen. No. 950,684; Mar. 1; Sp. p. 471; Gaz. vol. 152; p. 76.
Stack-cover. C. B. Shedd. No. 975,802; Nov. 15; Sp. p. 3817; Gaz. vol. 160; p. 643.
Stack-pipe protector. T. E. Huffman and I. E. Hammett. No. 972,378; Oct. 11; Sp. p. 1870; Gaz. vol. 159; p. 328.
Stacker. J. W. Vaniman. No. 953,449; Mar. 29; Sp. p. 6181; Gaz. vol. 152; p. 1108.
Stacker. F. Wyatt. No. 956,840; May 3; Sp. p. 740; Gaz. vol. 154; p. 117.
Stacker. R. O. McBurney. No. 966,580; Aug. 9; Sp. p. 1608; Gaz. vol. 157; p. 274.
Stacker and elevator, Pneumatic. A. Rosenthal. No. 955,358; Apr. 19; Sp. p. 3593; Gaz. vol. 153; p. 634.
Stacker and elevator, Straw. A. Rosenthal. No. 957,907; May 17; Sp. p. 2996; Gaz. vol. 154; p. 540.
Stacker and elevator, Straw. A. Rosenthal. No. 967,243; Aug. 16; Sp. p. 3030; Gaz. vol. 157; p. 524.
Stacker and loader, Hay. L. R. Shafto. No. 972,478; Oct. 11; Sp. p. 2086; Gaz. vol. 159; p. 363.
Stacker attachment, Hay-. C. Langum. No. 979,677; Dec. 27; Sp. p. 4877; Gaz. vol. 161; p. 855.
Stacker attachment, Pneumatic-. D. Bergsman. No. 979,412; Dec. 27; Sp. p. 4308; Gaz. vol. 161; p. 764.
Stacker, Grain-. A. Hasper. No. 971,995; Oct. 4; Sp. p. 1075; Gaz. vol. 159; p. 180.
Stacker, Hay-. C. B. and G. W. Singley. No. 949,161; Feb. 15; Sp. p. 2905; Gaz. vol. 151; p. 515.
Stacker, Hay-. F. Wyatt. No. 952,490; Mar. 22; Sp. p. 4110; Gaz. vol. 152; p. 757.
Stacker, Hay-. D. C. Crook. No. 954,171; Apr. 5; Sp. p. 1011; Gaz. vol. 153; p. 171.
Stacker, Hay-. R. E. Harris. No. 955,264; Apr. 19; Sp. p. 3386; Gaz. vol. 153; p. 603.
Stacker, Hay-. J. Durkee. No. 958,911; May 24; Sp. p. 5457; Gaz. vol. 154; p. 914.
Stacker, Hay-. W. S. Inbody. No. 959,543; May 31; Sp. p. 6755; Gaz. vol. 154; p. 1149.
Stacker, Hay-. H. S. Armitage and D. J. Stephens. No. 959,906; May 31; Sp. p. 7523; Gaz. vol. 154; p. 1271.
Stacker, Hay-. J. L. Bowman. No. 966,304; Aug. 2; Sp. p. 967; Gaz. vol. 157; p. 154.
Stacker, Hay-. W. D. Roberts. No. 967,975; Aug. 23; Sp. p. 4528; Gaz. vol. 157; p. 795.
Stacker, Hay-. W. H. Sabin. No. 969,197; Sept. 6; Sp. p. 117; Gaz. vol. 158; p. 19.
Stacker, Hay-. W. H. Heninger. No. 971,611; Oct. 4; Sp. p. 222; Gaz. vol. 159; p. 39.
Stacker, Hay-. L. S. Linnell. No. 978,315; Dec. 13; Sp. p. 1950; Gaz. vol. 161; p. 340.
Stacker, Pneumatic. F. L. Sattley. No. 950,120; Feb. 22; Sp. p. 4972; Gaz. vol. 151; p. 874.
Stacker, Pneumatic. J. A. Walsh. No. 962,068; June 21; Sp. p. 3815; Gaz. vol. 155; p. 668.
Stacker, Pneumatic. W. F. MacGregor. No. 965,310; July 26; Sp. p. 4987; Gaz. vol. 156; p. 858.
Stacker, Pneumatic. J. K. Sharpe, Jr. No. 966,710; Aug. 9; Sp. p. 1859; Gaz. vol. 157; p. 318.
Stacker, Pneumatic. G. F. Conner. No. 970,183; Sept. 13; Sp. p. 2220; Gaz. vol. 158; p. 377.
Stacker, Pneumatic. F. L. Ruddell. No. 970,956; Sept. 20; Sp. p. 3871; Gaz. vol. 158; p. 661.
Stacker, Pneumatic. J. A. Walsh. No. 971,329; Sept. 27; Sp. p. 4642; Gaz. vol. 158; p. 812.
Stacker, Pneumatic. J. K. Sharpe, Jr. No. 971,933; Oct. 4; Sp. p. 923; Gaz. vol. 159; p. 157.
Stacker, Pneumatic. G. F. Conner. No. 972,437; Oct. 11; Sp. p. 1989; Gaz. vol. 159; p. 349.
Stacker, Pneumatic. A. M. Harris. No. 973,113; Oct. 18; Sp. p. 3527; Gaz. vol. 159; p. 609.
Stacker, Pneumatic. W. W. Brower. No. 973,748; Oct. 25; Sp. p. 4897; Gaz. vol. 159; p. 852.
Stacker, Pneumatic. J. Goodison. No. 974,483; Nov. 1; Sp. p. 943; Gaz. vol. 160; p. 139.
Stacker, Pneumatic. J. Hagen. No. 975,230; Nov. 8; Sp. p. 2610; Gaz. vol. 160; p. 422.
Stacker, Pneumatic straw-. P. T. Kirkpatrick. No. 958,137; May 17; Sp. p. 3685; Gaz. vol. 154; p. 622.
Stacker, Portable rotatable hay-. G. Heedwell and W. F. McNew. No. 972,695; Oct. 11; Sp. p. 2574; Gaz. vol. 159; p. 438.
Stacker, Straw-. E. L. Shaffer. No. 972,656; Oct. 11; Sp. p. 2496; Gaz. vol. 159; p. 425.
Stacker, Straw-. G. W. Halane. No. 975,415; Nov. 15; Sp. p. 2994; Gaz. vol. 160; p. 509.
Stackers, Brake mechanism for hay-. O. P. Vroom. No. 951,208; Mar. 8; Sp. p. 1499; Gaz. vol. 152; p. 271.
Stackers, Hay-retaining device for hay-. J. Dain. No. 949,352; Feb. 15; Sp. p. 3305; Gaz. vol. 151; p. 579.
Stacking apparatus, Grain-. A. D. Adkinson and L. Cady. No. 953,679; Apr. 5; Sp. p. 1; Gaz. vol. 153; p. 3.
Stacking device. C. F. Way. No. 977,575; Dec. 6; Sp. p. 365; Gaz. vol. 161; p. 53.
Stacking machine, Cotton-. M. A. Gilleland. No. 952,108; Mar. 15; Sp. p. 3331; Gaz. vol. 152; p. 600.
Stage effect. F. D. Thomas. No. 971,418; Sept. 27; Sp. p. 4805; Gaz. vol. 158; p. 841.
Staging-bracket. O. L. Johnson. No. 958,746; May 24; Sp. p. 5059; Gaz. vol. 154; p. 855.
Stain or grease removing device. B. L. Williams. No. 970,673; Sept. 20; Sp. p. 3283; Gaz. vol. 158; p. 565.
Stair. J. C. Toliver. No. 957,817; May 10; Sp. p. 2786; Gaz. vol. 154; p. 478.
Stair-nosing and the like. G. B. Staples. No. 966,133; Aug. 2; Sp. p. 601; Gaz. vol. 157; p. 99.
Stair structure. A. A. Griner. No. 973,109; Oct. 18; Sp. p. 3520; Gaz. vol. 159; p. 608.
Stair-tread. C. B. Jacobs. No. 954,967; Apr. 12; Sp. p. 2787; Gaz. vol. 153; p. 472.
Stairs and steps, Safety-tread for. A. I. Davis. No. 973,346; Oct. 18; Sp. p. 4041; Gaz. vol. 159; p. 692.

Alphabetical list of inventions—Continued.

Stairs, Metallic. G. Sandblom. No. 960,412; June 7; Sp. p. 357; Gaz. vol. 155; p. 60.
Staircase, Metal. C. F. Steiber. No. 947,743; Jan. 25; Sp. p. 6055; Gaz. vol. 150; p. 1010.
Stairway, Counterbalanced. O. C. Fosselman. No. 945,029; Jan. 4; Sp. p. 36; Gaz. vol. 150; p. 9.
Stairway, Movable. F. E. Bessler. No. 966,518; Aug. 9; Sp. p. 1473; Gaz. vol. 157; p. 253.
Stairway or ladder, Counterbalanced. R. O. Belles. No. 972,595; Oct. 11; Sp. p. 2374; Gaz. vol. 159; p. 405.
Stairway structure. W. B. Simpson. No. 954,893; Apr. 12; Sp. p. 2626; Gaz. vol. 153; p. 447.
Stake-holder. A. J. Bostwick. No. 959,915; May 31; Sp. p. 7552; Gaz. vol. 154; p. 1275.
Stake-holder. A. J. Bostwick. No. 959,916; May 31; Sp. p. 7553; Gaz. vol. 154; p. 1275.
Stalk-chopper. A. J. Thompson. No. 964,337; July 12; Sp. p. 2836; Gaz. vol. 156; p. 468.
Stalk-chopper. J. King. No. 972,197; Oct. 11; Sp. p. 1497; Gaz. vol. 159; p. 266.
Stalk-cutter. M. E. Clanton. No. 946,720; Jan. 18; Sp. p. 3811; Gaz. vol. 150; p. 636.
Stalk-cutter. W. R. Lemons. No. 948,423; Feb. 8; Sp. p. 1353; Gaz. vol. 151; p. 242.
Stalk-cutter. W. W. Davis and J. H. Jeffrey. No. 951,678; Mar. 8; Sp. p. 2465; Gaz. vol. 152; p. 427.
Stalk-cutter. T. A. Davis. No. 952,727; Mar. 22; Sp. p. 4630; Gaz. vol. 152; p. 839.
Stalk-cutter. J. and F. A. Michalka. No. 957,620; May 10; Sp. p. 2378; Gaz. vol. 154; p. 412.
Stalk-cutter. L. Sanders. No. 961,988; June 21; Sp. p. 3637; Gaz. vol. 155; p. 639.
Stalk-cutter. T. A. Henly. No. 970,709; Sept. 20; Sp. p. 3370; Gaz. vol. 158; p. 578.
Stalk-cutter. F. Werner, Sr. No. 974,219; Nov. 1; Sp. p. 258; Gaz. vol. 160; p. 43.
Stalk-cutter. C. F. Witten. No. 976,329; Nov. 22; Sp. p. 4969; Gaz. vol. 160; p. 847.
Stalk-cutter. J. R. Weatherly. No. 976,959; Nov. 29; Sp. p. 6364; Gaz. vol. 160; p. 1089.
Stalk-cutter and cart, Combined. J. T. Graves. No. 948,854; Feb. 8; Sp. p. 2273; Gaz. vol. 151; p. 386.
Stalk-cutter and harrow. M. W. Wallace. No. 973,395; Oct. 18; Sp. p. 4153; Gaz. vol. 159; p. 708.
Stalk cutter, Cotton-. P. C. Hallmark. No. 945,090; Jan. 4; Sp. p. 178; Gaz. vol. 150; p. 30.
Stalk-puller. A. Redding. No. 953,712; Apr. 5; Sp. p. 58; Gaz. vol. 153; p. 13.
Stalk-puller. D. M. Francisco. No. 973,188; Oct. 18; Sp. p. 3731; Gaz. vol. 159; p. 637.
Stallion-shield. G. M. Frampton. No. 976,863; Nov. 29; Sp. p. 6125; Gaz. vol. 160; p. 1055.
Stamp: *See* Egg-stamp.
Stamp. E. H. Sanborn. No. 975,463; Nov. 15; Sp. p. 3089; Gaz. vol. 160; p. 528.
Stamp, Addressing-. T. Dillard. No. 977,173; Nov. 29; Sp. p. 6852; Gaz. vol. 160; p. 1163.
Stamp-affixer. P. G. E. Daniel and C. A. H. Bullock. No. 957,658; May 10; Sp. p. 2457; Gaz. vol. 154; p. 425.
Stamp-affixer. M. E. Harwell. No. 967,767; Aug. 16; Sp. p. 4097; Gaz. vol. 157; p. 702.
Stamp-affixing machine. W. L. Bowlus. No. 946,327; Jan. 11; Sp. p. 2892; Gaz. vol. 150; p. 480.
Stamp-affixing machine. W. R. Brents. No. 952,067; Mar. 15; Sp. p. 3256; Gaz. vol. 152; p. 586.
Stamp-affixing machine. E. H. Hotchkiss and C. Beach. No. 953,384; Mar. 29; Sp. p. 6046; Gaz. vol. 152; p. 1087.
Stamp-affixing machine. H. Hadida. No. 953,661; Mar. 29; Sp. p. 6628; Gaz. vol. 152; p. 1183.
Stamp-affixing machine. R. Abram. No. 965,497; July 26; Sp. p. 5388; Gaz. vol. 156; p. 922.
Stamp-affixing machine. S. B. White. No. 968,619; Aug. 30; Sp. p. 5920; Gaz. vol. 157; p. 1043.
Stamp-affixing machine. C. E. Van Duzer. No. 971,940; Oct. 4; Sp. p. 937; Gaz. vol. 159; p. 159.
Stamp-affixing machine. H. A. Benedict. No. 975,742; Nov. 15; Sp. p. 3696; Gaz. vol. 160; p. 623.
Stamp-affixing machine. L. M. Nielsen and H. Weller. No. 978,475; Dec. 13; Sp. p. 2287; Gaz. vol. 161; p. 395.
Stamp-affixing mechanism. E. J. Abbott. No. 973,465; Oct. 25; Sp. p. 4301; Gaz. vol. 159; p. 755.
Stamp and label affixer. G. E. Lacey. No. 954,307; Apr. 5; Sp. p. 1304; Gaz. vol. 153; p. 216.
Stamp and label affixing machine. C. J. Fancher and J. H. Burt. No. 952,439; Mar. 15; Sp. p. 3973; Gaz. vol. 152; p. 711.
Stamp-canceling device. J. Unger. No. 974,845; Nov. 8; Sp. p. 1729; Gaz. vol. 160; p. 289.
Stamp, Dating-. B. B. Hill. No. 952,738; Mar. 22; Sp. p. 4647; Gaz. vol. 152; p. 842.
Stamp feeding and affixing mechanism, Postage-. H. Herrick and E. Plowe. No. 967,914; Aug. 23; Sp. p. 4396; Gaz. vol. 157; p. 774.
Stamp, Hand-. W. Skow. No. 954,353; Apr. 5; Sp. p. 1395; Gaz. vol. 153; p. 231.
Stamp, Hand-. A. S. McGreevy. No. 955,669; Apr. 19; Sp. p. 4281; Gaz. vol. 153; p. 740.
Stamp, Hand-. M. C. Price. No. 958,533; May 17; Sp. p. 4627; Gaz. vol. 154; p. 760.
Stamp, Hand-. G. W. Walters. No. 963,340; July 5; Sp. p. 756; Gaz. vol. 156; p. 110.
Stamp, Hand-. L. R. Garby. No. 977,293; Nov. 29; Sp. p. 7079; Gaz. vol. 160; p. 1205.
Stamp, Hand-. J. A. Schmitz. No. 980,012; Dec. 27; Sp. p. 5598; Gaz. vol. 161; p. 967.
Stamp holder, Multiple self-inking. V. W. Boller. No. 948,811; Feb. 8; Sp. p. 2194; Gaz. vol. 151; p. 372.
Stamp machine, Hand-. F. Wosinski. No. 963,972; July 12; Sp. p. 2096; Gaz. vol. 156; p. 343.
Stamp-mill mortar, Ore-. P. H. Nissen. No. 945,135; Jan. 4; Sp. p. 257; Gaz. vol. 150; p. 45.
Stamp, Self-inking hand-. A. J. Peterson. No. 973,556; Oct. 25; Sp. p. 4498; Gaz. vol. 159; p. 785.
Stamp, Time-. C. S. Ellis. No. 945,154; Jan. 4; Sp. p. 299; Gaz. vol. 150; p. 51.
Stamp, Time-. C. C. Sibley. No. 951,224; Mar. 8; Sp. p. 1534; Gaz. vol. 152; p. 276.
Stamp, Time-. F. Purdy. No. 952,577; Mar. 22; Sp. p. 4296; Gaz. vol. 152; p. 787.
Stamp, Time-. C. M. Crook. No. 966,384; Aug. 2; Sp. p. 1115; Gaz. vol. 157; p. 180.
Stamp, Time-. W. J. English. No. 970,201; Sept. 13; Sp. p. 2266; Gaz. vol. 158; p. 384.
Stamps and labels, Machine for affixing. C. J. Fancher, J. H. Burt, and E. Van Winkle. No. 977,175; Nov. 29; Sp. p. 6857; Gaz. vol. 160; p. 1164.
Stamps, Detachable pad for self-inking. T. H. Cox. No. 965,874; Aug. 2; Sp. p. 54; Gaz. vol. 157; p. 11.
Stamps, labels, and the like from sheets and attaching same to any desired object or matter, Means for detaching. F. Meyer. No. 954,321; Apr. 5; Sp. p. 1333; Gaz. vol. 153; p. 220.
Stamps, labels, or the like, and for selling postage-stamps, Apparatus for affixing postage-. E. Haas. No. 956,526; May 3; Sp. p. 33; Gaz. vol. 154; p. 9.
Stamps, &c., Means for detaching from the sheet and affixing postage-. F. Meyer. No. 965,645; July 26; Sp. p. 5734; Gaz. vol. 156; p. 975.
Stamping and printing paper webs. O. Krüger. No. 970,932; Sept. 20; Sp. p. 3828; Gaz. vol. 158; p. 653.
Stamping and punching machine. C. A. Myers. No. 974,695; Nov. 1; Sp. p. 1399; Gaz. vol. 160; p. 217.
Stamping and sealing device. W. C. Pratt and A. J. Tates. No. 945,802; Jan. 11; Sp. p. 1762; Gaz. vol. 150; p. 295.
Stamping and sealing machine, Envelop. L. M. Nielsen and H. Weller. No. 978,474; Dec. 13; Sp. p. 2277; Gaz. vol. 161; p. 395.
Stamping device, Check-. F. G. Lundeen. No. 959,768; May 31; Sp. p. 7213; Gaz. vol. 154; p. 1224.
Stamping letters and other postal matter, Apparatus for. A. Gerstenkorn. No. 968,043; Aug. 23; Sp. p. 4681; Gaz. vol. 157; p. 818.
Stamping-machine. C. Chambers, Jr. No. 960,819; June 7; Sp. p. 1174; Gaz. vol. 155; p. 196.
Stamping-machine feeding mechanism. J. R. Smith. No. 946,584; Jan. 18; Sp. p. 3519; Gaz. vol. 150; p. 593.
Stamping-machine safety-guard. J. M. Jones. No. 976,181; Nov. 22; Sp. p. 4617; Gaz. vol. 160; p. 795.
Stamping, marking, or numbering machine. F. W. Merrick. No. 960,029; May 31; Sp. p. 7827; Gaz. vol. 154; p. 1316.
Stamping or printing press, Relief. R. F. Sproule. No. 968,430; Aug. 23; Sp. p. 5513; Gaz. vol. 157; p. 951.
Stamping-presses, Safety-guard for. J. M. Jones. No. 977,953; Dec. 6; Sp. p. 1145; Gaz. vol. 161; p. 185.
Stanchion. P. A. Lorenzen. No. 949,586; Feb. 15; Sp. p. 3779; Gaz. vol. 151; p. 657.
Stanchion. E. A. Hoeffel. No. 963,149; July 5; Sp. p. 317; Gaz. vol. 156; p. 44.
Stanchion. R. M. Glor. No. 972,849; Oct. 18; Sp. p. 2913; Gaz. vol. 159; p. 518.
Stanchion. C. W. McLean. No. 976,672; Nov. 22; Sp. p. 5705; Gaz. vol. 160; p. 965.
Stanchion. C. H. Moore. No. 980,163; Dec. 27; Sp. p. 5955; Gaz. vol. 161; p. 1016.
Stanchion, Cattle-. M. Murphy. No. 947,668; Jan. 25; Sp. p. 5929; Gaz. vol. 150; p. 985.
Stanchion, Cattle-. E. M. Krause. No. 955,811; Apr. 19; Sp. p. 4564; Gaz. vol. 153; p. 789.
Stanchion, Cattle-. A. H. Race. No. 956,413; Apr. 26; Sp. p. 5903; Gaz. vol. 153; p. 1026.
Stanchion, Cattle-. F. Woodmancy. No. 968,104; Aug. 23; Sp. p. 4827; Gaz. vol. 157; p. 838.
Stanchion, Cattle-. W. H. Flewell. No. 971,981; Oct. 4; Sp. p. 1046; Gaz. vol. 159; p. 175.
Stanchion, Cattle-. M. H. Dooley. No. 972,069; Oct. 4; Sp. p. 1211; Gaz. vol. 159; p. 205.
Stanchion, Cattle-. J. B. Forwood. No. 977,289; Nov. 29; Sp. p. 7075; Gaz. vol. 160; p. 1203.
Stanchion for wagons, Adjustable live-stock. O. T. Austinson. No. 956,791; May 3; Sp. p. 623; Gaz. vol. 154; p. 99.

Stand: *See* Adjustable stand; Baby-stand; Blacking-stand; Book and type-writer stand; Boot-black stand; Car-wheel jack-stand; Chafing-dish stand; Cycle-stand; Dish-stand; Display-stand; Dressmaker's fitting-stand; Duplicating-machine stand; Emery-wheel stand; Flower-stand; Fruit-stand; Fruit and vegetable stand; Hammock-stand; Ironing-stand; Lamp-stand; Match-stand; Music-stand; Photographer's stand; Plant-stand; Pump-stand; Railway-switch stand; Reading-stand; Sewing-stand; Shoe-polishing stand; Switch-stand; Telephone desk-stand; Trolley-stand; Type-writing stand; Umbrella-stand; Waiting-stand; Work-stand.
Stand. F. J. Selden. No. 963,658; July 5; Sp. p. 1389; Gaz. vol. 156; p. 216.
Stand-boiler. W. Sherwood. No. 958,551; May 17; Sp. p. 4660; Gaz. vol. 154; p. 765.
Stand for hammocks, couches, &c. W. J. McBride. No. 972,783; Oct. 11; Sp. p. 2755; Gaz. vol. 159; p. 468.
Standard-holder. J. E. Hines. No. 953,268; Mar. 29; Sp. p. 5789; Gaz. vol. 152; p. 1047.
Staple. J. N. Hahn. No. 951,393; Mar. 8; Sp. p. 1902; Gaz. vol. 152; p. 331.
Staple. H. F. Merrill. No. 959,369; May 24; Sp. p. 6372; Gaz. vol. 154; p. 1065.
Staple-driving mechanism. E. H. Broden. No. 963,988; July 12; Sp. p. 2139; Gaz. vol. 156; p. 349.
Staple for attaching bar-buttons. J. H. Goss. No. 977,615; Dec. 6; Sp. p. 451; Gaz. vol. 161; p. 67.
Staple forming and discharging mechanism. V. Hoxie. No. 948,448; Feb. 8; Sp. p. 1403; Gaz. vol. 151; p. 250.
Staple forming and discharging mechanism. V. Hoxie. No. 948,699; Feb. 8; Sp. p. 1951; Gaz. vol. 151; p. 334.
Staple forming and driving machine. R. G. Inwood and G. N. Sigerfoose. No. 949,373; Feb. 15; Sp. p. 3350; Gaz. vol. 151; p. 586.
Staple-holder. C. G. Richards. No. 965,746; July 26; Sp. p. 5929; Gaz. vol 156; p. 1009.
Staple or clip. F. J. Yetter. No. 948,913; Feb. 8; Sp. p. 2383; Gaz. vol. 151; p. 405.
Staple-setting machine. A. J. Michel and J. M. Jones. No. 966,462; Aug. 9; Sp. p. 1301; Gaz. vol. 157; p. 233.
Staples, Power-operated machine for setting. W. E. Elliott. No. 945,769; Jan. 11; Sp. p. 1696; Gaz. vol. 150; p. 284.
Staples, Treadle-operated machine for setting. W. E. Elliott. No. 945,770; Jan. 11; Sp. p. 1698; Gaz. vol. 150; p. 285.
Stapling-machine. J. L. Firm. No. 945,506; Jan. 4; Sp. p. 1080; Gaz. vol. 150; p. 167.
Stapling-machine. J. Shields and C. H. Goetsche. No. 950,496; Mar. 1; Sp. p. 73; Gaz. vol. 152; p. 13.
Stapling-machine. J. L. Firm. No. 955,505; Apr. 19; Sp. p. 3900; Gaz. vol. 153; p. 685.
Stapling-machine. W. C. Jessup and J. Muth. No. 971,130; Sept. 27; Sp. p. 4229; Gaz. vol. 158; p. 746.
Stapling-machine. E. H. Michener. No. 973,370; Oct. 18; Sp. p. 4100; Gaz. vol. 159; p. 700.
Stapling-machines, Wire-feeding mechanism for. H. Weber. No. 958,201; May 17; Sp. p. 3811; Gaz. vol. 154; p. 644.
Stapling mechanism. J. L. Firm. No. 945,507; Jan. 4; Sp. p. 1081; Gaz. vol. 150; p. 167.
Starch into derivatives, dextrin, dextrose, &c., Converting. S. M. Lillie. No. 959,237; May 24; Sp. p. 6115; Gaz. vol. 154; p. 1022.
Starch, Manufacture of modified. W. Thomson. No. 951,666; Mar. 8; Sp. p. 2448; Gaz. vol. 152; p. 423.
Starting and stopping mechanism. M. D. Phelan. No. 958,004; May 17; Sp. p. 3282; Gaz. vol. 154; p. 574.
Starting and stopping mechanism. T. G. Plant. No. 958,290; May 17; Sp. p. 4048; Gaz. vol. 154; p. 674.
Starting and stopping mechanism. J. H. Michener, Jr. No. 978,775; Dec. 13; Sp. p. 2931; Gaz. vol. 161; p. 496.
Starting device. W. McKissick. No. 959,153; May 24; Sp. p. 5939; Gaz. vol. 154; p. 994.
Starting device. W. Johnston. No. 975,134; Nov. 8; Sp. p. 2396; Gaz. vol. 160; p. 389.
Starting device, Automatic. C. T. Hildebrandt. No. 968,561; Aug. 30; Sp. p. 5805; Gaz. vol. 157; p. 1022.
Starting device, Mechanical. J. A. Burns. No. 979,257; Dec. 20; Sp. p. 4015; Gaz. vol. 161; p. 690.
Starting-gate for sports. W. H. Brenner. No. 952,503; Mar. 22; Sp. p. 4127; Gaz. vol. 152; p. 760.
Starting mechanism. W. L. Terry, Jr. No. 957,813; May 10; Sp. p. 2780; Gaz. vol. 154; p. 477.
Station-indicator. C. C. Cochran. No. 947,694; Jan. 25; Sp. p. 5968; Gaz. vol. 150; p. 993.
Station-indicator. E. K. Harris. No. 953,528; Mar. 29; Sp. p. 6356; Gaz. vol. 152; p. 1138.
Station-indicator. A. G. Anderson. No. 956,260; Apr. 26; Sp. p. 5588; Gaz. vol. 153; p. 974.
Station-indicator. C. Messing. No. 959,370; May 24; Sp. p. 6373; Gaz. vol. 154; p. 1066.
Station-indicator. F. W. Andrus. No. 966,879; Aug. 9; Sp. p. 2274; Gaz. vol. 157; p. 373.
Station-indicator. R. A. Hathhorne. No. 966,914; Aug. 9; Sp. p. 2339; Gaz. vol. 157; p. 384.
Station-indicator. H. L. Keeler. No. 970,717; Sept. 20; Sp. p. 3385; Gaz. vol. 158; p. 580.
Station-indicator. W. A. Bryant. No. 973,749; Oct. 25; Sp. p. 4898; Gaz. vol. 159; p. 852.
Station-indicator and advertising device. C. H. Hopkins. No. 956,098; Apr. 26; Sp. p. 5223; Gaz. vol. 153; p. 919.
Station-indicator and similar device. P. N. Stowby and E. M. Hatch. No. 974,537; Nov. 1; Sp. p. 1069; Gaz. vol. 160; p. 159.
Station or street indicator. G. W. Lloyd. No. 961,243; June 14; Sp. p. 2032; Gaz. vol. 155; p. 366.
Stationery. M. I. Hufey. No. 962,961; June 28; Sp. p. 5703; Gaz. vol. 155; p. 999.
Stationery-box. W. A. Gray. No. 976,166; Nov. 22; Sp. p. 4567; Gaz. vol. 160; p. 790.
Stationery device. R. E. Zimmer. No. 952,172; Mar. 15; Sp. p. 3452; Gaz. vol. 152; p. 621.
Stationery for transmitting and recording bank-collections. J. L. Price. No. 966,359; Aug. 2; Sp. p. 1068; Gaz. vol. 157; p. 272.
Stave-jointing mechanism. P. S. Reyman. No. 974,518; Nov. 1; Sp. p. 1023; Gaz. vol. 160; p. 152.
Stay-bolt. M. Mahoney. No. 969,383; Sept. 6; Sp. p. 500; Gaz. vol. 158; p. 80.
Stay-bolt breaker. A. Sterner. No. 964,129; July 12; Sp. p. 2427; Gaz. vol. 156; p. 398.
Stay-bolt breaker. C. Harter and J. W. Small. No. 972,856; Oct. 18; Sp. p. 2930; Gaz. vol. 159; p. 520.
Stay-bolt drill. H. L. Barrickman. No. 980,139; Dec. 27; Sp. p. 5911; Gaz. vol. 161; p. 1009.
Stay-bolt, Flexible. J. W. Keeley. No. 978,596; Dec. 13; Sp. p. 2566; Gaz. vol. 161; p. 438.
Stay-bolt header. A. Guthrie. No. 960,313; June 7; Sp. p. 146; Gaz. vol. 155; p. 28.
Stay-bolts, Manufacture of. G. S. Thompson. No. 971,805; Oct. 4; Sp. p. 610; Gaz. vol. 159; p. 107.
Stay, Wire garment-. H. W. Barcley. No. 949,052; Feb. 15; Sp. p. 2688; Gaz. vol. 151; p. 479.
Steady-rest. B. M. W. Hanson. No. 952,193; Mar. 15; Sp. p. 3481; Gaz. vol. 152; p. 627.
Steam and hot-water boiler. R. Rouse, Jr. No. 975,462; Nov. 15; Sp. p. 3087; Gaz. vol. 160; p. 527.
Steam and liquid pressure regulating device. C. P. McMullen. No. 946,613; Jan. 18; Sp. p. 3583; Gaz. vol. 150; p. 603.
Steam and other gases and vapors, Method of and apparatus for determining rate of flow of. C. C. Thomas. No. 946,886; Jan. 18; Sp. p. 4225; Gaz. vol. 150; p. 695.
Steam and vacuum trap. C. D. Tillison. No. 948,028; Feb. 1; Sp. p. 517; Gaz. vol. 151; p. 83.
Steam and water gage. E. Halley. No. 971,268; Sept. 27; Sp. p. 4532; Gaz. vol. 158; p. 792.
Steam and water heater combined, Exhaust-regenerating. S. H. Hale. No. 958,636; May 17; Sp. p. 4825; Gaz. vol. 154; p. 792.
Steam-boiler. C. A. Sturm. No. 945,733; Jan. 4; Sp. p. 1580; Gaz. vol. 150; p. 243.
Steam-boiler. T. Barrow. No. 948,366; Feb. 8; Sp. p. 1222; Gaz. vol. 151; p. 223.
Steam-boiler. T. Barrow. No. 949,953; Feb. 22; Sp. p. 4574; Gaz. vol. 151; p. 818.
Steam-boiler. T. F. Downey. No. 949,956; Feb. 22; Sp. p. 4579; Gaz. vol. 151; p. 818.
Steam-boiler. T. F. Morrin, Jr. No. 950,296; Feb. 22; Sp. p. 5335; Gaz. vol. 151; p. 936.
Steam-boiler. C. W. Hawkes. No. 951,813; Mar. 15; Sp. p. 2747; Gaz. vol. 152; p. 502.
Steam-boiler. C. H. Fox. No. 953,166; Mar. 29; Sp. p. 5566; Gaz. vol. 152; p. 1014.
Steam-boiler. J. M. Lord and C. H. Jones. No. 956,383; Apr. 26; Sp. p. 5849; Gaz. vol. 153; p. 1016.
Steam-boiler. W. M. Gentle. No. 957,155; May 3; Sp. p. 1387; Gaz. vol. 154; p. 223.
Steam-boiler. J. Buyhers. No. 961,082; June 7; Sp. p. 1706; Gaz. vol. 155; p. 283.
Steam-boiler. T. E. Durban. No. 965,883; Aug. 2; Sp. p. 69; Gaz. vol. 157; p. 14.
Steam-boiler. E. P. Hanahan. No. 967,763; Aug. 16; Sp. p. 4089; Gaz. vol. 157; p. 700.
Steam-boiler. A. A. Olson. No. 967,961; Aug. 23; Sp. p. 4491; Gaz. vol. 157; p. 790.
Steam-boiler. C. A. Hammel. No. 973,111; Oct. 18; Sp. p. 3523; Gaz. vol. 159; p. 609.
Steam-boiler. C. A. Bettington. No. 973,468; Oct. 25; Sp. p. 4307; Gaz. vol. 159; p. 756.
Steam-boiler. C. M. Olsen. No. 973,692; Oct. 25; Sp. p. 4794; Gaz. vol. 159; p. 833.
Steam-boiler. W. S. Tuttle. No. 975,736; Nov. 15; Sp. p. 3680; Gaz. vol. 160; p. 620.
Steam-boiler. G. Engel. No. 978,009; Dec. 6; Sp. p. 1262; Gaz. vol. 161; p. 202.
Steam-boiler. J. A. Doarnberger. No. 979,135; Dec. 20; Sp. p. 3746; Gaz. vol. 161; p. 649.
Steam-boiler and furnace, Combined. W. D. Plue. No. 953,921; Apr. 5; Sp. p. 472; Gaz. vol. 153; p. 86.
Steam-boiler, Oil-burning. C. A. Hammel. No. 973,110; Oct. 18; Sp. p. 3521; Gaz. vol. 159; p. 608.
Steam-boiler, Oil-burning. W. A. Rogers. No. 973,138; Oct. 18; Sp. p. 3588; Gaz. vol. 159; p. 619.
Steam-boiler, Tubular. S. Elliott. No. 948,373; Feb. 8; Sp. p. 1249; Gaz. vol. 151; p. 226.
Steam-condensing apparatus. D. B. Morison. No. 979,540; Dec. 27; Sp. p. 4576; Gaz. vol. 161; p. 807.

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Steam-condensing coils, Gas-liberating header for. W. F. Paradise. No. 974,590; Nov. 1; Sp. p. 1176; Gaz. vol. 160; p. 179.
Steam-controlling device. G. Restucci. No. 957,097; May 3; Sp. p. 1284; Gaz. vol. 154; p. 204.
Steam-engine. E. J. Armstrong. No. 946,094; Jan. 11; Sp. p. 2394; Gaz. vol. 150; p. 398.
Steam-engine. E. Garst. No. 950,906; Mar. 1; Sp. p. 932; Gaz. vol. 152; p. 149.
Steam-engine. J. Stumpf. No. 952,764; Mar. 22; Sp. p. 4710; Gaz. vol. 152; p. 851.
Steam-engine. H. L. Thompson. No. 960,438; June 7; Sp. p. 399; Gaz. vol. 155; p. 67.
Steam-engine. H. W. Weaver. No. 961,186; June 14; Sp. p. 1910; Gaz. vol. 155; p. 346.
Steam-engine. J. March. No. 962,907; June 28; Sp. p. 5607; Gaz. vol. 155; p. 982.
Steam-engine. J. M. Fennell. No. 970,903; Sept. 20; Sp. p. 3773; Gaz. vol. 158; p. 644.
Steam-engine. G. Psareas and N. Parkas. No. 971,402; Sept. 27; Sp. p. 4779; Gaz. vol. 158; p. 836.
Steam-engine. B. C. Ball. No. 974,546; Nov. 1; Sp. p. 1094; Gaz. vol. 160; p. 164.
Steam-engine, Compound. H. H. Pilcher. No. 961,795; June 21; Sp. p. 3208; Gaz. vol. 155; p. 576.
Steam-engine, Rotary multiple-cylinder. J. A. Waltman. No. 975,486; Nov. 15; Sp. p. 3134; Gaz. vol. 160; p. 535.
Steam-engine, Vacuum. C. Comstock. No. 979,435; Dec. 27; Sp. p. 4344; Gaz. vol. 161; p. 771.
Steam-exhaust head. W. H. Thomas. No. 964,584; July 19; Sp. p. 3407; Gaz. vol. 156; p. 582.
Steam face-bath. S. J. Dalzelle. No. 949,623; Feb. 15; Sp. p. 3846; Gaz. vol. 151; p. 670.
Steam-generating-apparatus regulator. O. F. Persson. No. 974,181; Nov. 1; Sp. p. 161; Gaz. vol. 160; p. 29.
Steam-generating systems, Means for controlling fuel-supply in. H. Lemp. No. 953,212; Mar. 29; Sp. p. 5663; Gaz. vol. 152; p. 1029.
Steam-generator. I. Wichrowski. No. 947,050; Jan. 18; Sp. p. 4540; Gaz. vol. 150; p. 749.
Steam-generator. L. Kuehl. No. 950,293; Feb. 22; Sp. p. 5331; Gaz. vol. 151; p. 935.
Steam-generator. J. M. Lively. No. 951,480; Mar. 8; Sp. p. 2076; Gaz. vol. 152; p. 360.
Steam-generator. J. Buckley. No. 958,358; May 17; Sp. p. 4287; Gaz. vol. 154; p. 699.
Steam-generator. R. Dunkel. No. 958,606; May 17; Sp. p. 4773; Gaz. vol. 154; p. 783.
Steam-generator. R. J. Galbraith. No. 961,490; June 14; Sp. p. 2587; Gaz. vol. 155; p. 451.
Steam-generator. G. M. L. Moore-Irvine. No. 961,516; June 14; Sp. p. 2629; Gaz. vol. 155; p. 459.
Steam-generator. W. G. Hay. No. 966,201; Aug. 2; Sp. p. 774; Gaz. vol. 157; p. 122.
Steam-generator. S. J. Ross and H. Schofield. No. 978,061; Dec. 6; Sp. p. 1375; Gaz. vol. 161; p. 221.
Steam-generator. J. J. Bush. No. 978,135; Dec. 13; Sp. p. 1563; Gaz. vol. 161; p. 277.
Steam-generator. H. L. Thompson. No. 979,356; Dec. 20; Sp. p. 4184; Gaz. vol. 161; p. 722.
Steam-generator for cooking purposes. W. L. Dunn. No. 963,695; July 5; Sp. p. 1471; Gaz. vol. 156; p. 228.
Steam-generator, Slag. G. Mitchell. No. 968,870; Aug. 30; Sp. p. 6471; Gaz. vol. 157; p. 1127.
Steam-generator, Water-tube. J. H. Rosenthal and A. Spyer. No. 959,612; May 31; Sp. p. 6892; Gaz. vol. 154; p. 1173.
Steam-generator, Water-tube. A. G. Burkhardt. No. 967,718; Aug. 16; Sp. p. 4000; Gaz. vol. 157; p. 685.
Steam-generator, Water-tube. A. Bugnon. No. 977,927; Dec. 6; Sp. p. 1098; Gaz. vol. 161; p. 175.
Steam-generator with water-immersed flame. O. H. U. Brünler. No. 971,724; Oct. 4; Sp. p. 452; Gaz. vol. 159; p. 78.
Steam-joint, Rotary. J. Nuttall. No. 951,771; Mar. 8; Sp. p. 2653; Gaz. vol. 152; p. 450.
Steam-meter. F. E. Pendleton. No. 963,643; July 5; Sp. p. 1364; Gaz. vol. 156; p. 212.
Steam or hot-air apparatus. R. Mayer. No. 945,241; Jan. 4; Sp. p. 490; Gaz. vol. 150; p. 80.
Steam-power apparatus. W. C. Anderson. No. 965,850; Aug. 2; Sp. p. 8; Gaz. vol. 157; p. 4.
Steam-separator. H. W. Spencer. No. 961,037; June 7; Sp. p. 1605; Gaz. vol. 155; p. 268.
Steam-separator. J. T. Lindstrom. No. 969,170; Sept. 6; Sp. p. 44; Gaz. vol. 158; p. 10.
Steam-separator. J. E. Dunn. No. 970,477; Sept. 20; Sp. p. 2844; Gaz. vol. 158; p. 497.
Steam-superheater. E. H. Foster. No. 963,732; July 5; Sp. p. 1563; Gaz. vol. 156; p. 241.
Steam-superheater. G. J. Churchward, G. H. Burrows, and C. C. Champeney. No. 969,088; Aug. 30; Sp. p. 6903; Gaz. vol. 157; p. 1202.
Steam-superheater. H. W. Jacobs. No. 973,662; Oct. 25; Sp. p. 4736; Gaz. vol. 159; p. 822.
Steam-superheater. J. C. Heron. No. 979,669; Dec. 27; Sp. p. 4857; Gaz. vol. 161; p. 852.
Steam-superheating apparatus. H. Cruse. No. 954,501; Apr. 12; Sp. p. 1724; Gaz. vol. 153; p. 310.
Steam-superheating apparatus. H. Cruse. No. 957,939; May 17; Sp. p. 3069; Gaz. vol. 154; p. 550.
Steam-superheating apparatus. E. F. Osborne. No. 971,777; Oct. 4; Sp. p. 556; Gaz. vol. 159; p. 97.
Steam-tramper. F. Phelps. No. 945,413; Jan. 4; Sp. p. 885; Gaz. vol. 150; p. 138.
Steam-trap. L. M. Cooper. No. 947,801; Feb. 1; Sp. p. 46; Gaz. vol. 151; p. 10.
Steam-trap. W. O. Wheeler. No. 950,787; Mar. 1; Sp. p. 705; Gaz. vol. 152; p. 112.
Steam-trap. G. C. Ellerton. No. 951,063; Mar. 1; Sp. p. 1212; Gaz. vol. 152; p. 199.
Steam-trap. W. R. Templeton. No. 952,482; Mar. 22; Sp. p. 4084; Gaz. vol. 152; p. 754.
Steam-trap. G. Keisling and J. D. Brown. No. 952,814; Mar. 22; Sp. p. 4829; Gaz. vol. 152; p. 868.
Steam-trap. E. Engebretson. No. 954,175; Apr. 5; Sp. p. 1015; Gaz. vol. 153; p. 172.
Steam-trap. G. E. Hulse. No. 959,541; May 31; Sp. p. 6750; Gaz. vol. 154; p. 1148.
Steam-trap. C. E. Squires. No. 959,636; May 31; Sp. p. 6936; Gaz. vol. 154; p. 1181.
Steam-trap. W. M. Still and A. G. Adamson. No. 968,812; Aug. 30; Sp. p. 6356; Gaz. vol. 157; p. 1108.
Steam-trap. J. R. Tanner. No. 971,801; Oct. 4; Sp. p. 603; Gaz. vol. 159; p. 106.
Steam-trap. S. Steinmitz. No. 974,201; Nov. 1; Sp. p. 216; Gaz. vol. 160; p. 36.
Steam-trap. J. J. Harpain. No. 975,357; Nov. 8; Sp. p. 2872; Gaz. vol. 160; p. 463.
Steam-trap. M. L. Richards. No. 977,131; Nov. 29; Sp. p. 6755; Gaz. vol. 160; p. 1149.
Steam-trap. V. B. Convis. No. 978,701; Dec. 13; Sp. p. 2774; Gaz. vol. 161; p. 473.
Steam-trap. J. M. Burby. No. 978,842; Dec. 20; Sp. p. 3050; Gaz. vol. 161; p. 543.
Steam-trap. M. J. Konold. No. 979,172; Dec. 20; Sp. p. 3827; Gaz. vol. 161; p. 662.
Steam-trap and automatic check-valve. S. V. Sharood. No. 966,709; Aug. 9; Sp. p. 1857; Gaz. vol. 157; p. 317.
Steam-trap attachment. R. J. Flinn. No. 959,927; May 31; Sp. p. 7570; Gaz. vol. 154; p. 1279.
Steam-trap, boiler-feed, and water-meter. G. W. Cole. No. 971,831; Oct. 4; Sp. p. 667; Gaz. vol. 159; p. 117.
Steam-traps, Demonstrating apparatus for. C. E. Squires. No. 979,716; Dec. 27; Sp. p. 4954; Gaz. vol. 161; p. 868.
Steamer. F. J. Albrecht. No. 966,980; Aug. 9; Sp. p. 2477; Gaz. vol. 157; p. 407.
Steamer. J. G. Moritz. No. 973,956; Oct. 25; Sp. p. 5323; Gaz. vol. 159; p. 925.
Steamer, Culinary. S. J. Tourtellotte. No. 968,715; Aug. 30; Sp. p. 6161; Gaz. vol. 157; p. 1076.
Steaming and pressing machine. C. D. Stratton and W. A. Petrie. No. 953,805; Apr. 5; Sp. p. 250; Gaz. vol. 153; p. 44.
Steel. J. W. Evans. No. 948,166; Feb. 1; Sp. p. 788; Gaz. vol. 151; p. 130.
Steel and iron ingots, Treating. J. A. Brinell. No. 976,145; Nov. 22; Sp. p. 4516; Gaz. vol. 160; p. 783.
Steel castings, Heat-treating. W. G. Kranz. No. 951,768; Mar. 8; Sp. p. 2647; Gaz. vol. 152; p. 458.
Steel, Heat treatment of. S. S. Wales. No. 979,113; Dec. 20; Sp. p. 3692; Gaz. vol. 161; p. 640.
Steel ingots for rolling, Preparing manganese-. W. S. Potter. No. 975,370; Nov. 8; Sp. p. 2895; Gaz. vol. 160; p. 468.
Steel, Making. H. W. Lash. No. 978,905; Dec. 20; Sp. p. 3183; Gaz. vol. 161; p. 565.
Steel, Making hardened. H. de Nolly. No. 957,706; May 10; Sp. p. 2556; Gaz. vol. 154; p. 442.
Steel, Making manganese. H. D. Hibbard. No. 954,185; Apr. 5; Sp. p. 1037; Gaz. vol. 153; p. 176.
Steel, Making manganese. H. M. Howe. No. 954,188; Apr. 5; Sp. p. 1044; Gaz. vol. 153; p. 177.
Steel manufacture. J. M. Darke. No. 967,335; Aug. 16; Sp. p. 3215; Gaz. vol. 157; p. 557.
Steel, Manufacture of. A. Reynolds. No. 963,652; July 5; Sp. p. 1380; Gaz. vol. 156; p. 215.
Steel Manufacture of. C. M. Johnson. No. 964,869; July 19; Sp. p. 4087; Gaz. vol. 156; p. 681.
Steel, Manufacture of. W. R. Walker. No. 967,590; Aug. 16; Sp. p. 3744; Gaz. vol. 157; p. 643.
Steel, Manufacture of. A. Reynolds. No. 979,337; Dec. 20; Sp. p. 4155; Gaz. vol. 161; p. 716.
Steel, Manufacture of manganese. W. S. Potter. No. 968,601; Aug. 30; Sp. p. 5882; Gaz. vol. 157; p. 1037.
Steel, Manufacture of manganese. W. S. Potter. No. 968,602; Aug. 30; Sp. p. 5887; Gaz. vol. 157; p. 1038.
Steel-manufacturing apparatus. N. E. Maccallum. No. 959,146; May 24; Sp. p. 5923; Gaz. vol. 154; p. 992.
Steel, Producing alloyed. F. L. Antisell. No. 951,385; Mar. 8; Sp. p. 1881; Gaz. vol. 152; p. 328.
Steel, Production, treating, and rolling of ingots of manganese. W. S. Potter. No. 975,371; Nov. 8; Sp. p. 2897; Gaz. vol. 160; p. 468.
Steel, Purifying. R. H. Bulley. No. 955,378; Apr. 19; Sp. p. 3633; Gaz. vol. 153; p. 640.
Steel-scrap, Utilizing. J. P. W. Beckman. No. 947,031; Jan. 18; Sp. p. 4518; Gaz. vol. 150; p. 744.

Steel shapes, Apparatus for altering elongated. J. E. York. No. 950,036; Feb. 22; Sp. p. 4816; Gaz. vol. 151; p. 847.
Steel shovel, Pressed-. W. I. Judy. No. 946,369; Jan. 11; Sp. p. 3078; Gaz. vol. 150; p. 495.
Steel, Soaking-pit for manufacture of. G. W. Myers and H. Dill. No. 948,932; Feb. 8; Sp. p. 2412; Gaz. vol. 151; p. 411.
Steel-softening composition. G. F. Diez. No. 949,980; Feb. 22; Sp. p. 4677; Gaz. vol. 151; p. 827.
Steel strips, Apparatus for removing the hardness from certain portions of hardened. H. F. M. Huntsman. No. 975,041; Nov. 8; Sp. p. 2192; Gaz. vol. 160; p. 356.
Steel structure. W. A. Dunn. No. 974,779; Nov. 8; Sp. p. 1591; Gaz. vol. 160; p. 267.
Steel, Tempering. A. M. Sundborg. No. 974,099; Oct. 25; Sp. p. 5616; Gaz. vol. 159; p. 973.
Steel tie and clamp. A. E. Runion. No. 970,957; Sept. 20; Sp. p. 3872; Gaz. vol. 158; p. 661.
Steel tie and rail-joint. P. A. Haley. No. 946,696; Jan. 18; Sp. p. 3760; Gaz. vol. 150; p. 629.
Steel-tie form. G. R. Bentley. No. 953,892; Apr. 5, Sp. p. 411; Gaz. vol. 153; p. 75.
Steel to steel or steel to iron, Attaching. G. Dawson. No. 969,610; Sept. 6; Sp. p. 985; Gaz. vol. 158; p. 157.
Steel, Transferring dephosphorized molten. R. H. Wolff. No. 946,302; Jan. 11; Sp. p. 2850; Gaz. vol. 150; p. 473.
Steel, Treating manganese. W. S. Potter. No. 974,822; Nov. 8; Sp. p. 1679; Gaz. vol. 160; p. 281.
Steelyard. G. Darmstädter. No. 960,837; June 7; Sp. p. 1210; Gaz. vol. 155; p. 201.
Steering and controlling device for screw-propelled vessels. J. P. H. Lund. No. 969,642; Sept. 6; Sp. p. 1044; Gaz. vol. 158; p. 167.
Steering apparatus. A. Sundh. No. 963,090; July 5; Sp. p. 130; Gaz. vol. 156; p. 23.
Steering apparatus, Chain-gear. A. Sundh. No. 962,268; June 21; Sp. p. 4257; Gaz. vol. 155; p. 736.
Steering attachment, Safety. H. P. Larouette. No. 954,979; Apr. 12; Sp. p. 2809; Gaz. vol. 153; p. 476.
Steering device. H. S. Mustin. No. 956,718; May 3; Sp. p. 470; Gaz. vol. 154; p. 75.
Steering device. A. F. Rockwell. No. 962,257; June 21; Sp. p. 4233; Gaz. vol. 155; p. 733.
Steering device. J. B. Hunt. No. 966,750; Aug. 9; Sp. p. 1994; Gaz. vol. 157; p. 332.
Steering device. H. E. Bayly. No. 979,411; Dec. 27; Sp. p. 4306; Gaz. vol. 161; p. 763.
Steering-gear. W. E. Geyer. No. 950,818; Mar. 1; Sp. p. 770; Gaz. vol. 152; p. 122.
Steering-gear. J. R. Walker. No. 960,128; May 31; Sp. p. 8027; Gaz. vol. 154; p. 1348.
Steering-gear. L. G. Heusted. No. 978,746; Dec. 13; Sp. p 2882; Gaz. vol. 161; p. 488.
Steering-gear apparatus. A. Sundh. No. 963,091; July 5; Sp. p. 142; Gaz. vol. 156; p. 23.
Steering gear, Boat-. A. G. Park. No. 964,879; July 19; Sp. p. 4108; Gaz. vol. 156; p. 684.
Steering-indicator. S. I. Andress. No. 969,084; Aug. 30; Sp. p. 6896; Gaz. vol. 157; p. 1201.
Steering-knuckle. T. V. Buckwalter. No. 962,491; June 28; Sp. p. 4756; Gaz. vol. 155; p. 838.
Steering means for vessels. H. Hertzberg and M. J. Wohl. No. 980,156; Dec. 27; Sp. p. 5944; Gaz. vol. 161; p. 1015.
Steering mechanism. G. E. Sundell. No. 953,357; Mar. 29; Sp. p. 5983; Gaz. vol. 152; p. 1077.
Steering mechanism. J. H. Young. No. 968,627; Aug. 30; Sp. p. 5941; Gaz. vol. 157; p. 1046.
Steering-wheel. A. G. McPherson. No. 963,240; July 5; Sp. p. 535; Gaz. vol. 156; p. 76.
Stencil. W. Krug. No. 950,670; Mar. 1; Sp. p. 442; Gaz. vol. 152; p. 72.
Stencil-cleaning device. C. L. Burdick. No. 978,984; Dec. 20; Sp. p. 3381; Gaz. vol. 161; p. 594.
Stencil-cutting machine. P. J. Wolf. No. 949,950; Feb. 22; Sp. p. 4569; Gaz. vol. 151; p. 817.
Stencil-cutting machine. W. H. Scott. No. 955,216; Apr. 19; Sp. p. 3282; Gaz. vol. 153; p. 587.
Stencil-cutting machine. A. Langsdon. No. 955,972; Apr. 26; Sp. p. 4950; Gaz. vol. 153; p. 875.
Stencil-cutting machine. S. D. Hartog. No. 964,251; July 12; Sp. p. 2657; Gaz. vol. 156; p. 438.
Stencil-duplicating apparatus. A. B. Dick. No. 945,264; Jan. 4; Sp. p. 538; Gaz. vol. 150; p. 88.
Stencil-duplicating apparatus. A. B. Dick. No. 945,265; Jan. 4; Sp. p. 541; Gaz. vol. 150; p. 89.
Stencil-duplicating apparatus. A. B. Dick. No. 945,266; Jan. 4; Sp. p. 543; Gaz. vol. 150; p. 89.
Stencil-duplicating apparatus. A. B. Dick. No. 945,267; Jan. 4; Sp. p. 546; Gaz. vol. 150; p. 90.
Stencil-frame. F. D. Barnum. No. 952,781; Mar. 22; Sp. p. 4758; Gaz. vol. 152; p. 857.
Stencil-inker. E. N. Winston and N. W. Bywater. No. 965,353; July 26; Sp. p. 5089; Gaz. vol. 156; p. 874.
Stencil-machine. R. C. Wight. No. 949,558; Feb. 15; Sp. p. 3724; Gaz. vol. 151; p. 648.
Stencil-machine. C. L. Burdick. No. 954,926; Apr. 12; Sp. p. 2706; Gaz. vol. 153; p. 457.
Stencils, Manufacture of. W. H. Boone. No. 961,579; June 14; Sp. p. 2765; Gaz. vol. 155; p. 479.
Stenciling and marking pot. T. F. Ardizone. No. 954,371; Apr. 5; Sp. p. 1429; Gaz. vol. 153; p. 238.
Stenciling apparatus. A. Pokorny. No. 956,730; May 3; Sp. p. 496; Gaz. vol. 154; p. 79.
Stenciling apparatus. G. Dezavis. No. 966,174; Aug. 2; Sp. p. 717; Gaz. vol. 157; p. 113.
Stenciling compound. G. S. Whitty. No. 953,110; Mar. 29; Sp. p. 5452; Gaz. vol. 152; p. 996.
Stenciling-machine. J. Sokolov. No. 959,268; May 24; Sp. p. 6171; Gaz. vol. 154; p. 1032.
Stenciling-machine. S. T. Smith, Jr. No. 975,299; Nov. 8; Sp. p. 2763; Gaz. vol. 160; p. 446.
Stenciling-machine. A. J. Smith. No. 975,471; Nov. 15; Sp. p. 3108; Gaz. vol. 160; p. 531.
Stenciling-machine. A. J. Smith. No. 976,704; Nov. 22; Sp. p. 5759; Gaz. vol. 160; p. 975.
Stenographic machine. W. J. Kehoe. No 960,951; June 7; Sp. p. 1419; Gaz. vol. 155; p. 239.
Step and platform, Adjustable. E. H. Allfree and W. H. England. No. 953,733; Apr. 5; Sp. p. 98; Gaz. vol. 153; p. 20.
Step or tread. F. H. Stanwood. No. 961,176; June 14; Sp. p. 1887; Gaz. vol. 155; p. 343.
Step, platform, and door operating mechanism. C. W. Ragland. No. 979,886; Dec. 27; Sp. p. 5346; Gaz. vol. 161; p. 925.
Step, Sliding extensible. L. L. Pitts. No. 953,395; Mar. 29; Sp. p. 6071; Gaz. vol. 152; p. 1091.
Steps, Folding. A. F. Divok. No. 960,003; May 31; Sp. p. 7759; Gaz. vol. 154; p. 1307.
Stereopticon-carrier. H. W. Force. No. 946,501; Jan. 11; Sp. p. 3359; Gaz. vol. 150; p. 540.
Stereopticon-carrier. D. James. No. 952,199; Mar. 15; Sp. p. 3496; Gaz. vol. 152; p. 629.
Stereopticon, Dissolving. A. D. Smith. No. 970,962; Sept. 20; Sp. p. 3880; Gaz. vol. 158; p. 663.
Stereopticon slide-carrier. M. A. Goodspeed. No. 967,511; Aug. 16; Sp. p. 3589; Gaz. vol. 157; p. 616.
Stereoscope. T. J. Stockdale. No. 945,631; Jan. 4; Sp. p. 1340; Gaz. vol. 150; p. 208.
Stereoscope. A. E. Foote. No. 959,331; May 24; Sp. p. 6303; Gaz. vol. 154; p. 1054.
Stereoscope and stereograph, Panoramic. E. P. Croker and A. B. Payne. No. 946,339; Jan. 11; Sp. p. 2921; Gaz. vol. 150; p. 485.
Stereotelescope. H. Jacob. No. 972,622; Oct. 11; Sp. p. 2432; Gaz. vol. 159; p. 415.
Stereotype-block. A. O. Taylor. No. 959,271; May 24; Sp. p. 6184; Gaz. vol. 154; p. 1033.
Stereotype-casting box. H. F. Bechman. No. 945,678; Jan. 4; Sp. p. 1433; Gaz. vol. 150; p. 224.
Stereotype-making apparatus. J. J. C. Smith. No. 965,241; July 26; Sp. p. 4824; Gaz. vol. 156; p. 835.
Stereotype-matrices, Apparatus for producing. H. Winter. No. 948,655; Feb. 8; Sp. p. 1853; Gaz. vol. 151; p. 320.
Stereotype-molds, Making. J. J. C. Smith. No. 965,242; July 26; Sp. p. 4829; Gaz. vol. 156; p. 835.
Stereotype-plate-casting apparatus. W. Scott. No. 951,382; Mar. 8; Sp. p. 1876; Gaz. vol. 152; p. 327.
Stereotype-plate-casting machine. H. Lang. No. 945,789; Jan. 11; Sp. p. 1731; Gaz. vol. 150; p. 291.
Stereotype-plate-casting machine. J. J. Walser. No. 945,827; Jan. 11; Sp. p. 1825; Gaz. vol. 150; p. 306.
Stereotype-plate-casting mechanism. J. Walser. No. 945,826; Jan. 11; Sp. p. 1822; Gaz. vol. 150; p. 305.
Stereotype-plates, Machine for rectifying. P. Orsoni. No. 973,807; Oct. 25; Sp. p. 5020; Gaz. vol. 159; p. 873.
Stereotype-trimming machines, &c., Movable work-gage for. G. F. Read and F. G. Lougee. No. 977,474; Dec. 6; Sp. p. 98; Gaz. vol. 161; p. 18.
Sterilization of water or other liquids, Apparatus for the. C. S. Piestrak. No. 979,999; Dec. 27; Sp. p. 5567; Gaz. vol. 161; p. 962.
Sterilizer. W. T. Herndon. No. 959,858; May 31; Sp. p. 7411; Gaz. vol. 154; p. 1256.
Sterilizer. S. Blickman. No. 962,809; June 28; Sp. p. 5430; Gaz. vol. 155; p. 948.
Sterilizer. G. H. Reeves. No. 975,282; Nov. 8; Sp. p. 2715; Gaz. vol. 160; p. 439.
Sterilizer and drier. A. Jensen. No. 958,133; May 17; Sp. p. 3677; Gaz. vol. 154; p. 620.
Sterilizer and water-heater. A. R. Talbott. No. 950,876; Mar. 1; Sp. p. 872; Gaz. vol. 152; p. 140.
Sterilizer and water-heater, Combined. E. G. Stamper. No. 963,726; July 5; Sp. p. 1532; Gaz. vol. 156; p. 239.
Sterilizers to mouthpieces, Device for applying. O. H. Savage. No. 949,159; Feb. 15; Sp. p. 2903; Gaz. vol. 151; p. 514.
Sterilizing and oxidizing liquids with ozone, Apparatus for. A. H. Twombly. No. 969,736; Sept. 6; Sp. p. 1243; Gaz. vol. 158; p. 200.
Sterilizing and tempering glass vessels, Apparatus for. E. D. Schmitt. No. 976,001; Nov. 15; Sp. p. 4198; Gaz. vol. 160; p. 711.
Sterilizing apparatus. A. Richter. No. 949,661; Feb. 15; Sp. p. 3912; Gaz. vol. 151; p. 682.
Sterilizing apparatus, Regenerative. C. W. Ramstedt. No. 950,304; Feb. 22; Sp. p. 5353; Gaz. vol. 151; p. 939.
Sterilizing device. H. W. Patrick. No. 974,514; Nov. 1; Sp. p. 1015; Gaz. vol. 160; p. 150.

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Sterilizing-hopper. A. C. Badger. No. 964,838; July 19; Sp. p. 4025; Gaz. vol. 156; p. 670.
Stethoscope. N. Fuchs. No. 965,174; July 26; Sp. p. 4691; Gaz. vol. 156; p. 813.
Stick-horse. L. R. Nidermaier. No. 953,755; Apr. 5; Sp. p. 147; Gaz. vol. 153; p. 28.
Stiffener, Garment-. L. B. Laridon. No. 948,958; Feb. 8; Sp. p. 2472; Gaz. vol. 151; p. 420.
Stiletto, Embroidery-. B. Gallinek. No. 957,154; May 3; Sp. p. 1385; Gaz. vol. 154; p. 222.
Stiletto for embroidery and art crafting, Adjustable. L. Türk. No. 960,738; June 7; Sp. p. 1009; Gaz. vol. 155; p. 170.
Still. W. K. Wilson and J. Wallbillich. No. 946,186; Jan. 11; Sp. p. 2592; Gaz. vol. 150; p. 430.
Still. I. M. Lee. No. 962,965; June 28; Sp. p. 5708; Gaz. vol. 155; p. 1001.
Still. J. Hoffhine and N. F. Harriman. No. 969,625; Sept. 6; Sp. p. 1012; Gaz. vol. 158; p. 162.
Still, Turpentine-. B. Hart. No. 947,662; Jan. 25; Sp. p. 5920; Gaz. vol. 150; p. 984.
Stills, Baffle-plate for column-. E. Guillaume. No. 960,223; May 31; Sp. p. 8206; Gaz. vol. 154; p. 1381.
Stirrup. J. Harmon. No. 945,524; Jan. 4; Sp. p. 1120; Gaz. vol. 150; p. 172.
Stirrup. F. M. Swart. No. 970,664; Sept. 20; Sp. p. 3260; Gaz. vol. 158; p. 562.
Stirrup, Saddle-. J. F. Shultz. No. 976,406; Nov. 22; Sp. p. 5154; Gaz. vol. 160; p. 875.
Stirrup, Safety-. J. G. Massie. No. 949,830; Feb. 22; Sp. p. 4289; Gaz. vol. 151; p. 773.
Stirrup, Safety-. L. Speidel and A. A. Muller. No. 952,373; Mar. 15; Sp. p. 3848; Gaz. vol. 152; p. 688.
Stirrup, Safety-. P. G. Helsing. No. 971,376; Sept. 27; Sp. p. 4735; Gaz. vol. 158; p. 827.
Stirrup, Safety-. N. Crouse. No. 973,410; Oct. 18; Sp. p. 4185; Gaz. vol. 159; p. 713.
Stirrup, Safety-. D. Samson. No. 975,164; Nov. 8; Sp. p. 2464; Gaz. vol. 160; p. 399.
Stitch-forming mechanism. B. H. Theisen and G. S. Keller. No. 963,486; July 5; Sp. p. 1044; Gaz. vol. 156; p. 159.
Stitch-forming mechanism. W. V. Miller. No. 974,170; Nov. 1; Sp. p. 126; Gaz. vol. 160; p. 24.
Stitch-impression machine. F. F. Dorsey. No. 947,149; Jan. 18; Sp. p. 4718; Gaz. vol. 150; p. 779.
Stitch machine, Imitation-. L. W. G. Flynt. No. 958,913; May 24; Sp. p. 5460; Gaz. vol. 154; p. 915.
Stitch machine, Impression or imitation. J. B. Hadaway. No. 973,038; Oct. 18; Sp. p. 3378; Gaz. vol. 159; p. 585.
Stitch-regulating devices, Indicator for. C. L. Wilson. No. 952,162; Mar. 15; Sp. p. 3433; Gaz. vol. 152; p. 617.
Stitch-removing device. E. B. McGilvary. No. 970,733; Sept. 20; Sp. p. 3408; Gaz. vol. 158; p. 585.
Stitch separating and indenting tool. J. B. Hadaway. No. 962,139; June 21; Sp. p. 3991; Gaz. vol. 155; p. 693.
Stitches, Forming chain-. T. G. Plant. No. 945,045; Jan. 4; Sp. p. 74; Gaz. vol. 150; p. 14.
Stitching instrument, Wire-. V. Fischer. No. 960,300; June 7; Sp. p. 118; Gaz. vol. 155; p. 23.
Stitching-machine. C. T. Adair and R. G. Hardgrave. No. 976,330; Nov. 22; Sp. p. 4971; Gaz. vol. 160; p. 847.
Stitching-machine guard, Shoe-. C. S. Carle. No. 959,713; May 31; Sp. p. 7097; Gaz. vol. 154; p. 1205.
Stitching-machines, Presser-foot mechanism for. B. H. Theisen and G. S. Keller. No. 973,237; Oct. 18; Sp. p. 3824; Gaz. vol. 159; p. 654.
Stitching mechanisms, Presser-foot for shoe-sole-. H. Michelsen. No. 957,697; May 10; Sp. p. 2539; Gaz. vol. 154; p. 439.
Stock-drawer. R. S. Brown. No. 962,122; June 21; Sp. p. 3953; Gaz. vol. 155; p. 687.
Stock-fountain. H. C. Johnson. No. 963,578; July 5; Sp. p. 1242; Gaz. vol. 156; p. 190.
Stock-fountain. A. Moore. No. 969,177; Sept. 6; Sp. p. 73; Gaz. vol. 158; p. 12.
Stock-line recorder. J. E. Johnson, Jr. No. 951,128; Mar. 8; Sp. p. 1350; Gaz. vol. 152; p. 246.
Stock marker, Live-. F. R. Stevens. No. 976,225; Nov. 22; Sp. p. 4725; Gaz. vol. 160; p. 811.
Stock-trough. C. O. Anderson. No. 979,052; Dec. 20; Sp. p. 3530; Gaz. vol. 161; p. 617.
Stocking. E. M. Newton. No. 962,089; June 21; Sp. p. 3861; Gaz. vol. 155; p. 676.
Stocking-blank. W. H. Ermentrout and S. S. Miller. No. 972,442; Oct. 11; Sp. p. 1997; Gaz. vol. 159; p. 351.
Stocking-cap. E. Swindell. No. 975,582; Nov. 15; Sp. p. 3355; Gaz. vol. 160; p. 569.
Stocking, legging, and similar article, Elastic. E. Diver. No. 963,878; July 12; Sp. p. 1907; Gaz. vol. 156; p. 314.
Stocking-supporter. H. E. Petty. No. 969,402; Sept. 6; Sp. p. 537; Gaz. vol. 158; p. 86.
Stocking-supporter grip. J. R. Smith. No. 977,564; Dec. 6; Sp. p. 345; Gaz. vol. 161; p. 50.
Stocking-turning machine. W. H. Ermentrout. No. 964,959; July 19; Sp. p. 4265; Gaz. vol. 156; p. 712.
Stockings, &c., preparatory to singeing, Device for removing creases from. F. C. and A. Scholler and J. C. Dempsey. No. 968,497; Aug. 23; Sp. p. 5656; Gaz. vol. 157; p. 975.
Stoker. W. H. H. Stineman. No. 970,660; Sept. 20; Sp. p. 3254; Gaz. vol. 158; p. 561.
Stoker, Automatic. W. T. Hanna. No. 979,849; Dec. 27; Sp. p. 5273; Gaz. vol. 161; p. 913.
Stoker, Automatic. W. T. Hanna. No. 979,850; Dec. 27; Sp. p. 5276; Gaz. vol. 161; p. 913.
Stoker, Automatic mechanical. L. A. Mapel. No. 945,469; Jan. 4; Sp. p. 990; Gaz. vol. 150; p. 156.
Stoker for furnaces, Mechanical. F. C. Armstead. No. 957,296; May 10; Sp. p. 1735; Gaz. vol. 154; p. 303.
Stoker, Locomotive automatic. S. D. Griffin. No. 948,220; Feb. 1; Sp. p. 901; Gaz. vol. 151; p. 147.
Stoker, Mechanical. H. J. C. Gieseke. No. 945,322; Jan. 4; Sp. p. 690; Gaz. vol. 150; p. 107.
Stoker, Mechanical. C. W. Willey. No. 951,712; Mar. 8; Sp. p. 2513; Gaz. vol. 152; p. 437.
Stoker, Mechanical. J. A. Caldwell. No. 954,717; Apr. 12; Sp. p. 2198; Gaz. vol. 153; p. 383.
Stoker, Mechanical. W. G. Crosthwaite. No. 955,388; Apr. 19; Sp. p. 3664; Gaz. vol. 153; p. 644.
Stoker, Mechanical. W. M. Duncan. No. 963,532; July 5; Sp. p. 1148; Gaz. vol. 156; p. 175.
Stoker, Mechanical. D. F. Hervey. No. 966,547; Aug. 9; Sp. p. 1535; Gaz. vol. 157; p. 263.
Stoker, Mechanical. W. R. Wood. No. 970,868; Sept. 20; Sp. p. 3709; Gaz. vol. 158; p. 634.
Stoker mechanism. P. L. Crowe. No. 962,322; June 21; Sp. p. 4373; Gaz. vol. 155; p. 755.
Stoker, Underfeed. P. L. Crowe. No. 976,047; Nov. 15; Sp. p. 4286; Gaz. vol. 160; p. 727.
Stoker, Underfeed. P. L. Crowe. No. 976,048; Nov. 15; Sp. p. 4288; Gaz. vol. 160; p. 727.
Stoker, Underfeed. P. L. Crowe. No. 976,049; Nov. 15; Sp. p. 4290; Gaz. vol. 160; p. 728.
Stokers, Actuating mechanism for automatic. J. R. Fortune and H. S. Wells. No. 951,474; Mar. 8; Sp. p. 2063; Gaz. vol. 152; p. 358.
Stokers, Gate for mechanical. W. M. Duncan. No. 951,499; Mar. 8; Sp. p. 2115; Gaz. vol. 152; p. 366.
Stoker's hoe. W. E. Sheehy. No. 975,082; Nov. 8; Sp. p. 2273; Gaz. vol. 160; p. 371.
Stoking apparatus. G. W. Bulley. No. 956,757; May 3; Sp. p. 555; Gaz. vol. 154; p. 88.
Stoking mechanism. P. L. Crowe and A. Frankenheim. No. 964,399; July 12; Sp. p. 294¢; Gaz. vol. 156; p. 487.
Stone, Apparatus for forming artificial. A. A. Pauly. No. 965,002; July 19; Sp. p. 4354; Gaz. vol. 156; p. 726.
Stone articles, Making artificial-. A. A. Pauly. No. 965,007; July 19; Sp. p. 4362; Gaz. vol. 156; p. 727.
Stone, Artificial. T. M. Thom. No. 963,337; July 5; Sp. p. 748; Gaz. vol. 156; p. 109.
Stone blocks, Knockdown apparatus for forming artificial-. W. Lake. No. 970,727; Sept. 20; Sp. p. 3399; Gaz. vol. 158; p. 583.
Stone blocks, Machine for making artificial-. E. Toole and J. H. MacLennan. No. 963,833; July 12; Sp. p. 1816; Gaz. vol. 156; p. 299.
Stone blocks, Manufacture of imitation-. J. Mitats. No. 978,617; Dec. 13; Sp. p. 2612; Gaz. vol. 161; p. 445.
Stone building bricks or blocks, Compound for making artificial-. R. E., I. B., and W. D. Pelot. No. 964,544; July 19; Sp. p. 3304; Gaz. vol. 156; p. 566.
Stone, Casting artificial. J. B. Simpson. No. 962,924; June 28; Sp. p. 5639; Gaz. vol. 155; p. 987.
Stone collector, Field-. E. L. Kloss. No. 976,811; Nov. 22; Sp. p. 5990; Gaz. vol. 160; p. 1012.
Stone-crushing machine. I. L. Mitchell. No. 947,667; Jan. 25; Sp. p. 5928; Gaz. vol. 150; p. 985.
Stone-cutting machine. E. A. Chase. (Reissue.) No. 13,134; July 19; Sp. p. 4635; Gaz. vol. 156; p. 773.
Stone-cutting tool. W. F. Wittich. No. 972,969; Oct. 18; Sp. p. 3225; Gaz. vol. 159; p. 561.
Stone-dressing machine. W. H. Van Sickel. No. 971,577; Oct. 4; Sp. p. 142; Gaz. vol. 159; p. 26.
Stone, Facing artificial. J. C. Henderson. No. 969,692; Sept. 6; Sp. p. 1141; Gaz. vol. 158; p. 184.
Stone from slag, Manufacture of artificial. W. Schumacher. No. 977,681; Dec. 6; Sp. p. 587; Gaz. vol. 161; p. 90.
Stone-gatherer. G. H. Ford. No. 956,575; May 3; Sp. p. 150; Gaz. vol. 154; p. 26.
Stone gathering and loading machine. H. W. Thomas. No. 966,964; Aug. 9; Sp. p. 2436; Gaz. vol. 157; p. 401.
Stone, Manufacture of artificial. P. Hassack. No. 968,943; Aug. 30; Sp. p. 6617; Gaz. vol. 157; p. 1152.
Stone-marking tool, Pneumatic. C. S. Felumlee. No. 969,354; Sept. 6; Sp. p. 431; Gaz. vol. 158; p. 69.
Stone-planing platen. L. Crane. No. 949,316; Feb. 15; Sp. p. 3215; Gaz. vol. 151; p. 567.
Stone-polishing device. J. Ratcliffe. No. 977,327; Nov. 29; Sp. p. 7145; Gaz. vol. 160; p. 1216.
Stone-polishing machine. M. Pembroke. No. 946,616; Jan. 18; Sp. p. 3590; Gaz. vol. 150; p. 604.
Stone-polishing machine. J. Modotti and E. Quagelli. No. 950,400; Feb. 22; Sp. p. 5531; Gaz. vol. 151; p. 969.
Stone-puller. M. D. Crommett. No. 966,528; Aug. 9; Sp. p. 1496; Gaz. vol. 157; p. 256.
Stone-saw. F. P. Hanson. No. 947,969; Feb. 1; Sp. p. 401; Gaz. vol. 151; p. 64.

Alphabetical list of inventions—Continued.

Stone-saw. F. P. Hanson. No. 947,989; Feb. 1; Sp. p. 437; Gaz. vol. 151; p. 70.
Stone-saw. J. R. Peirce. No. 962,663; June 28; Sp. p. 5125; Gaz. vol. 155; p. 896.
Stone-saw. F. P. Hanson and H. W. Arnold. No. 971,746; Oct. 4; Sp. p. 499; Gaz. vol. 159; p. 87.
Stone-sawing machine. L. Crane. No. 949,317; Feb. 15; Sp. p. 3216; Gaz. vol. 151; p. 567.
Stone walks, Form for laying artificial-. S. C. Smith. No. 946,160; Jan. 11; Sp. p. 2527; Gaz. vol. 150; p. 422.
Stool. S. Ryave. No. 959,393; May 24; Sp. p. 6418; Gaz. vol. 154; p. 1073.
Stool. G. Konstantinides. No. 965,113; July 19; Sp. p. 4568; Gaz. vol. 156; p. 762.
Stool, Barber's. J. Davis. No. 969,347; Sept. 6; Sp. p. 418; Gaz. vol. 158; p. 67.
Stool, Folding. L. J. O'Brien. No. 955,349; Apr. 19; Sp. p. 3570; Gaz. vol. 153; p. 631.
Stool, Folding. W. J. Thefeld. No. 972,290; Oct. 11; Sp. p. 1698; Gaz. vol. 159; p. 298.
Stool, Folding. F. von Tiesenhausen. No. 976,136; Nov. 15; Sp. p. 4493; Gaz. vol. 160; p. 758.
Stool, Folding. W. M. Langley. No. 978,904; Dec. 20; Sp. p. 3182; Gaz. vol. 161; p. 565.
Stool, Motorman's. W. E. Fawcett. No. 954,857; Apr. 12; Sp. p. 2549; Gaz. vol. 153; p. 434.
Stool or seat, Store. W. G. Winans. No. 964,078; July 12; Sp. p. 2317; Gaz. vol. 156; p. 381.
Stool or table, Foldable. H. J. Swarts. No. 948,533; Feb. 8; Sp. p. 1583; Gaz. vol. 151; p. 279.
Stool, Shoe-salesman's. O. H. Moore. No. 947,518; Jan. 25; Sp. p. 5627; Gaz. vol. 150; p. 935.
Stool, Shoe-salesman's. J. Gassel. No. 975,852; Nov. 15; Sp. p. 3916; Gaz. vol. 160; p. 660.
Stop and reverse mechanism, Automatic. D. D. Hungerford. No. 952,991; Mar. 22; Sp. p. 5162; Gaz. vol. 152; p. 927.
Stop and waste, Compression. P. Mueller. No. 962,516; June 28; Sp. p. 4804; Gaz. vol. 155; p. 846.
Stop, Automatic rove-. P. Sharp. No. 972,266; Oct. 11; Sp. p. 1646; Gaz. vol. 159; p. 290.
Stop mechanism, Automatic. C. S. Batdorf. No. 973,335; Oct. 18; Sp. p. 4020; Gaz. vol. 159; p. 688.
Stop-motion. J. McGinnis. No. 971,911; Oct. 4; Sp. p. 862; Gaz. vol. 159; p. 148.
Stop-motion for textile machinery. P. Sharp. No. 972,265; Oct. 11; Sp. p. 1641; Gaz. vol. 159; p. 289.
Stop-motion for velvet and like pile cutting machines. W. G. M. Keighley and H. Netherwood. No. 946,136; Jan. 11; Sp. p. 2467; Gaz. vol. 150; p. 412.
Stop-motion, Twister. T. H. Smith. No. 967,987; Aug. 23; Sp. p. 4553; Gaz. vol. 157; p. 799.
Stopper: *See* Bottle-stopper; Flue-stopper; Gas-main stopper; Ingot-stopper; Ladle-stopper; Nozzle-stopper; Pulp stopper.
Stopper and dropper. R. L. Larson. No. 969,291; Sept. 6; Sp. p. 296; Gaz. vol. 158; p. 48.
Stopper-extractor. A. W. Stephens. No. 952,085; Mar. 15; Sp. p. 3287; Gaz. vol. 152; p. 592.
Stopper-extractor. A. W. Stephens. No. 959,897; May 31; Sp. p. 7507; Gaz. vol. 154; p. 1268.
Stopper-fastener. B. Donohoe. No. 946,208; Jan. 11; Sp. p. 2632; Gaz. vol. 150; p. 438.
Stopper-retainer. A. E. Gordon. No. 950,387; Feb. 22; Sp. p. 5505; Gaz. vol. 151; p. 964.
Stopper-retainer. A. C. Boggs, Jr. No. 957,645; May 10; Sp. p. 2431; Gaz. vol. 154; p. 421.
Stopper-tie. W. S. Dow. No. 954,503; Apr. 12; Sp. p. 1726; Gaz. vol. 153; p. 310.
Stopping device. W. Bartholomew and D. J. Phillips. No. 952,407; Mar. 15; Sp. p. 3913; Gaz. vol. 152; p. 700.
Stopping mechanism. T. G. Plant. No. 958,295; May 17; Sp. p. 4088; Gaz. vol. 154; p. 676.
Stopping the supply in case of a sudden emptying, Automatic apparatus for. J. A. Bouchayer. No. 969,516; Sept. 6; Sp. p. 775; Gaz. vol. 158; p. 122.
Storage battery. P. M. Marko. No. 945,564; Jan. 4; Sp. p. 1502; Gaz. vol. 150; p. 186.
Storage battery. T. A. Edison. No. 946,540; Jan. 18; Sp. p. 3446; Gaz. vol. 150; p. 579.
Storage battery. W. M. Jackson. No. 947,238; Jan. 25; Sp. p. 4919; Gaz. vol. 150; p. 839.
Storage battery. J. E. Haschke. No. 947,575; Jan. 25; Sp. p. 5743; Gaz. vol. 150; p. 954.
Storage battery. V. G. Apple. No. 959,192; May 24; Sp. p. 6024; Gaz. vol. 154; p. 1007.
Storage battery. C. F. Washburn. No. 962,870; June 28; Sp. p. 5548; Gaz. vol. 155; p. 970.
Storage battery. P. M. Marko. No. 964,995; July 19; Sp. p. 4336; Gaz. vol. 156; p. 723.
Storage battery. R. N. Chamberlain. No. 970,420; Sept. 13; Sp. p. 2703; Gaz. vol. 158; p. 456.
Storage battery. T. A. Edison. No. 976,792; Nov. 22; Sp. p. 5960; Gaz vol. 160; p. 1006.
Storage-case and exhibition device, Combined. E. Steeb. No. 956,217; Apr. 26; Sp. p. 5505; Gaz. vol. 153; p. 960.
Storage-receptacle. R. J. Gibbon. No. 971,987; Oct. 4; Sp. p. 1062; Gaz. vol. 159; p. 178.
Store-front and show-case construction. H. S. Conrow. No. 958,228; May 17; Sp. p. 3864; Gaz. vol. 154; p. 653.
Store-front construction. E. S. Rhoads. No. 946,734; Jan. 18; Sp. p. 3846; Gaz. vol. 150; p. 641.
Store-front construction. F. J. Plym. No. 955,103; Apr. 12; Sp. p. 3030; Gaz. vol. 153; p. 514.
Store-front construction. F. J. Plym. No. 968,076; Aug. 23; Sp. p. 4767; Gaz. vol. 157; p. 829.
Store-service apparatus. P. Tripke. No. 949,865; Feb. 22; Sp. p. 4390; Gaz. vol. 151; p. 786.
Store-service apparatus. L. B. Bethards. No. 955,629; Apr. 19; Sp. p. 4175; Gaz. vol. 153; p. 727.
Store-service apparatus. L. B. Bethards. No. 972,432; Oct. 11; Sp. p. 1980; Gaz. vol. 159; p. 348.
Store-service credit-system apparatus. C. F. Kettering. No. 975,533; Nov. 15; Sp. p. 3254; Gaz. vol. 160; p. 553.
Store-service track. E. J. Brandt. No. 954,611; Apr. 12; Sp. p. 1957; Gaz. vol. 153; p. 347.
Store-service wireway. C. E. Thompson. No. 958,782; May 24; Sp. p. 5149; Gaz. vol. 154; p. 868.
Storehouse, Vegetable-. J. E. Lafferty. No. 961,454; June 14; Sp. p. 2495; Gaz. vol. 155; p. 439.
Storm-front attachment. W. H. Luelf. No. 946,761; Jan. 18; Sp. p. 3907; Gaz. vol. 150; p. 651.
Storm-top. W. A. Hunter. (Reissue.) No. 13,183; Dec. 13; Sp. p. 3014; Gaz. vol. 161; p. 511.
Stove. J. B. Barrett. No. 945,904; Jan. 11; Sp. p. 2007; Gaz. vol. 150; p. 333.
Stove. B. Tanchoff. No. 947,205; Jan. 18; Sp. p. 4843; Gaz. vol. 150; p. 799.
Stove. F. E. Lesley. No. 947,829; Feb. 1; Sp. p. 86; Gaz. vol. 151; p. 18.
Stove. F. M. Beverly. No. 948,986; Feb. 15; Sp. p. 2538; Gaz. vol. 151; p. 457.
Stove. E. R. Cahoone. No. 953,513; Mar. 29; Sp. p. 6319; Gaz. vol. 152; p. 1132.
Stove. E. R. Cahoone. No. 955,758; Apr. 19; Sp. p. 4465; Gaz. vol. 153; p. 771.
Stove. A. L. Piper. No. 959,026; May 24; Sp. p. 5665; Gaz. vol. 154; p. 952.
Stove. G. and W. G. Bauch. No. 959,107; May 24; Sp. p. 5843; Gaz. vol. 154; p. 979.
Stove. A. O. Hancock. No. 960,904; June 7; Sp. p. 1335; Gaz. vol. 155; p. 224.
Stove. S. O. Hensley. No. 964,913; July 19; Sp. p. 4177; Gaz. vol. 156; p. 696.
Stove. C. E. Gohmann. No. 967,364; Aug. 16; Sp. p. 3273; Gaz. vol. 157; p. 567.
Stove. C. H. Miller. No. 969,792; Sept. 13; Sp. p. 1390; Gaz. vol. 158; p. 244.
Stove. H. P. Spencer. No. 972,032; Oct. 4; Sp. p. 1146; Gaz. vol. 159; p. 192.
Stove. E. E. Anderson. No. 972,490; Oct. 11; Sp. p. 2109; Gaz. vol. 159; p. 367.
Stove. J. Gruber. No. 973,650; Oct. 25; Sp. p. 4705; Gaz. vol. 159; p. 818.
Stove. E. Kener, Jr. No. 974,280; Nov. 1; Sp. p. 452; Gaz. vol. 160; p. 67.
Stove. J. M. Merritt. No. 974,290; Nov. 1; Sp. p. 482; Gaz. vol. 160; p. 70.
Stove and furnace grate. L. O. Brekke. No. 970,460; Sept. 20; Sp. p. 2795; Gaz. vol. 158; p. 491.
Stove and gas hot-plate, Combined. E. F. Hill. No. 962,402; June 21; Sp. p. 4527; Gaz. vol. 155; p. 781.
Stove and range construction. J. P. McDonough. No. 977,417; Nov. 29; Sp. p. 7378; Gaz. vol. 160; p. 1247.
Stove and stand, Vapor-. G. E. Savage and E. A. Gutermann. No. 954,703; Apr. 12; Sp. p. 2161; Gaz. vol. 153; p. 378.
Stove attachment. M. Emmett. No. 967,354; Aug. 16; Sp. p. 3247; Gaz. vol. 157; p. 563.
Stove attachment. B. W. Clark. No. 969,340; Sept. 6; Sp. p. 395; Gaz. vol. 158; p. 64.
Stove attachment. W. H. Prall. No. 976,491; Nov. 22; Sp. p. 5336; Gaz. vol. 160; p. 904.
Stove attachment. A. J. Brooks. No. 979,374; Dec. 20; Sp. p. 4222; Gaz. vol. 161; p. 727.
Stove attachment, Gas-heating-. O. Drechsler. No. 976,053; Nov. 15; Sp. p. 4297; Gaz. vol. 160; p. 729.
Stove, Baking-. J. A. Coppridge. No. 957,748; May 10; Sp. p. 2643; Gaz. vol. 154; p. 456.
Stove, Base-burning. W. W. Hoffman. No. 960,175; May 31; Sp. p. 8110; Gaz. vol. 154; p. 1364.
Stove, Blue-flame oil-. C. S. Cannon. No. 979,646; Dec. 27; Sp. p. 4814; Gaz. vol. 161; p. 845.
Stove-board. G. Pfeil. No. 962,093; June 21; Sp. p. 3868; Gaz. vol. 155; p. 677.
Stove-board. G. Pfeil. No. 962,094; June 21; Sp. p. 3868; Gaz. vol. 155; p. 677.
Stove-burner. J. L. Park. No. 957,365; May 10; Sp. p. 1874; Gaz. vol. 154; p. 326.
Stove, Camp-. S. E. Balch. No. 963,030; July 5; Sp. p. 7; Gaz. vol. 156; p. 3.
Stove, Camping-. R. Schmidt. No. 967,447; Aug. 16; Sp. p. 3445; Gaz. vol. 157; p. 594.
Stove cap or lid. A. H. Peters. No. 946,946; Jan. 18; Sp. p. 4348; Gaz. vol. 150; p. 714.
Stove, Charcoal-. A. W. Stickle. No. 948,259; Feb. 1; Sp. p. 976; Gaz. vol. 151; p. 160.
Stove, Coking-. H. H. McMaster. No. 963,631; July 5; Sp. p. 1343; Gaz. vol. 156; p. 207.
Stove, Collapsible camping-. A. Kurt. No. 970,342; Sept. 13; Sp. p. 2553; Gaz. vol. 158; p. 431.

Alphabetical list of inventions—Continued.

Stove, Cook-. W. L. Crumrine. No. 962,496; June 28; Sp. p. 4769; Gaz. vol. 155; p. 840.
Stove, Cooking-. E. Barker. No. 957,642; May 10; Sp. p. 2426; Gaz. vol. 154; p. 420.
Stove, Electric. H. L. Millspaugh and F. C. Vincent. No. 946,643; Jan. 18; Sp. p. 3650; Gaz. vol. 150; p. 611.
Stove, Electric cook-. F. H. Zeigin. No. 958,458; May 17; Sp. p. 4490; Gaz. vol. 154; p. 734.
Stove-flue. E. E. Thompson. No. 948,747; Feb. 8; Sp. p. 2049; Gaz. vol. 151; p. 350.
Stove, Fluid-vapor. J. W. Chapman. No. 950,997; Mar. 1; Sp. p. 1105; Gaz. vol. 152; p. 178.
Stove, Folding camp-. H. H. Long. No. 961,975; June 21; Sp. p. 3611; Gaz. vol. 155; p. 635.
Stove, Folding camp-. J. N. McDaniels. No. 963,922; July 12; Sp. p. 1990; Gaz. vol. 156; p. 327.
Stove for heating buildings or the like purposes. G. A. Wikström. No. 954,153; Apr. 5; Sp. p. 976; Gaz. vol. 153; p. 164.
Stove, Gas-. A. C. Witman. No. 954,557; Apr. 12; Sp. p. 1842; Gaz. vol. 153; p. 329.
Stove, Gas-. T. M. Dudgeon. No. 962,752; June 28; Sp. p. 5314; Gaz. vol. 155; p. 928.
Stove, Gas-. J. S. Dearborn. No. 965,162; July 26; Sp. p. 4671; Gaz. vol. 156; p. 809.
Stove, Gas-. T. J. Hughes. No. 965,463; July 26; Sp. p. 5324; Gaz. vol. 156; p. 910.
Stove, Gas-. J. M. Brock. No. 978,127; Dec. 6; Sp. p. 1518; Gaz. vol. 161; p. 245.
Stove, Gas-. O. H. Schraeger. No. 978,338; Dec. 13; Sp. p. 1998; Gaz. vol. 161; p. 348.
Stove, Gas heating-. A. C. Mott. No. 951,693; Mar. 8; Sp. p. 2483; Gaz. vol. 152; p. 431.
Stove, Gas heating-. J. E. Davis. No. 964,405; July 12; Sp. p. 2966; Gaz. vol. 156; p. 489.
Stove, Gas or vapor. A. F. Bauer. No. 963,266; July 5; Sp. p. 611; Gaz. vol. 156; p. 85.
Stove, Gas or vapor. A. E. Hartig and E. B. Wooten. No. 968,942; Aug. 30; Sp. p. 6616; Gaz. vol. 157; p. 1152.
Stove, Gasolene-. A. J. Blackford. No. 972,051; Oct. 4; Sp. p. 1180; Gaz. vol. 159; p. 199.
Stove-grate. C. Fish and C. Wightman. No. 956,064; Apr. 26; Sp. p. 5145; Gaz. vol. 153; p. 907.
Stove, Heating-. A. C. Klopping. No. 954,741; Apr. 12; Sp. p. 2268; Gaz. vol. 153; p. 393.
Stove, Heating-. W. Heuermann. No. 962,430; June 28; Sp. p. 4621; Gaz. vol. 155; p. 816.
Stove, Heating-. G. Alig. No. 966,512; Aug. 9; Sp. p. 1465; Gaz. vol. 157; p. 251.
Stove, Heating-. S. S. Cudd. No. 969,605; Sept. 6; Sp. p. 976; Gaz. vol. 158; p. 155.
Stove, Heating-. G. H. Jordan. No. 973,201; Oct. 18; Sp. p. 3754; Gaz. vol. 159; p. 641.
Stove, Hot-blast. W. O. Amsler. No. 945,360; Jan. 4; Sp. p. 775; Gaz. vol. 150; p. 119.
Stove, Hot-blast. T. E. Thomas. No. 953,564; Mar. 29; Sp. p. 6425; Gaz. vol. 152; p. 1150.
Stove, Hot-blast. R. S. Moore. No. 970,941; Sept. 20; Sp. p. 3843; Gaz. vol. 158; p. 656.
Stove-leg. B. A. Baxter. No. 961,928; June 21; Sp. p. 3510; Gaz. vol. 155; p. 620.
Stove-lid. A. L. Castle. No. 947,370; Jan. 25; Sp. p. 5269; Gaz. vol. 150; p. 886.
Stove-lid. B. F. Gill and J. D. Kizer. No. 952,008; Mar. 15; Sp. p. 3149; Gaz. vol. 152; p. 567.
Stove-lid and pan lifter, Combined. P. Slustrop. No. 976,512; Nov. 22; Sp. p. 5363; Gaz. vol. 160; p. 910.
Stove-lid, Skeleton. J. F. Ruby. No. 950,119; Feb. 22; Sp. p. 4971; Gaz. vol. 151; p. 874.
Stove lighter, Gas-. O. H. P. Clark. No. 950,891; Mar. 1; Sp. p. 901; Gaz. vol. 152; p. 144.
Stove, Oil-. F. Conrath. No. 954,422; Apr. 12; Sp. p. 1535; Gaz. vol. 153; p. 282.
Stove, Oil-. W. R. Jeavons. No. 964,262; July 12; Sp. p. 2681; Gaz. vol. 156; p. 442.
Stove oil-burner attachment. F. P. Beucler. No. 976,626; Nov. 22; Sp. p. 5614; Gaz. vol. 160; p. 949.
Stove or cabinet, Cooking. C. B. Adams. No. 947,779; Feb. 1; Sp. p. 1; Gaz. vol. 151; p. 3.
Stove or furnace grate. W. Clerkin. No. 976,848; Nov. 29; Sp. p. 6097; Gaz. vol 160; p. 1049.
Stove-oven. C. V. Blomskog. No. 965,559; July 26; Sp. p. 5552; Gaz. vol. 156; p. 945.
Stove oven-burners, Lighter for gas-. J. G. Harvey. No. 972,619; Oct. 11; Sp. p. 2429; Gaz. vol. 159; p. 414.
Stove oven, Cooking-. C. Myers. No. 955,668; Apr. 19; Sp. p. 4280; Gaz. vol. 153; p. 740.
Stove oven, Cooking-. F. Ziganek. No. 969,828; Sept. 13; Sp. p. 1488; Gaz. vol. 158; p. 256.
Stove protecting device, Gas-. L. J. Livingston. No. 976,475; Nov. 22; Sp. p. 5299; Gaz. vol. 160; p. 898.
Stove, range, &c. E. A. Bolinder. No. 977,505; Dec. 6; Sp. p. 180; Gaz. vol. 161; p. 30.
Stove, Reflector-. J. T. Reznor. No. 956,420; Apr. 26; Sp. p. 5914; Gaz. vol. 153; p. 1029.
Stove, Safety methylated-spirit. F. Szakáll and D. Kardos. No. 946,690; Jan. 18; Sp. p. 3750; Gaz. vol. 150; p. 627.
Stove, Slow-combustion. E. Pollard. No. 969,117; Aug. 30; Sp. p. 6969; Gaz. vol. 157; p. 1213.
Stove, Steel. A. E. Bronson, Sr. No. 977,592; Dec. 6; Sp. p. 406; Gaz. vol. 161; p. 59.
Stove-top. F. W. Rogers. No. 965,334; July 26; Sp. p. 5048; Gaz. vol. 156; p. 868.
Stove top, Cooking- F. Ziganek. No. 951,088; Mar. 1; Sp. p. 1265; Gaz. vol. 152; p. 207.
Stove, Vapor-. E. A. Gutermann. No. 948,393; Feb. 8; Sp. p. 1294; Gaz. vol. 151; p. 232.
Stove, Vapor-. A. A. Warner. No. 968,435; Aug. 23; Sp. p. 5523; Gaz. vol. 157; p. 953.
Stoves and the like, Attachment for gas-. J. Schofield. No. 978,402; Dec. 13; Sp. p. 2133; Gaz. vol. 161; p. 371.
Stoves, Burner for gas-. R. M. Lovell. No. 972,882; Oct. 18; Sp. p. 2995; Gaz. vol. 159; p. 530.
Stoves, Checker-brick for hot-blast. D. D. Lamond. No. 951,012; Mar. 1; Sp. p. 1128; Gaz. vol. 152; p. 183.
Stoves, Cloth-rack for. M. Krystowiak. No. 951,645; Mar. 8; Sp. p. 2398; Gaz. vol. 152; p. 415.
Stoves, Electric igniting device for gas-. C. Stamm. No. 969,993; Sept. 13; Sp. p. 1839; Gaz. vol. 158; p. 313.
Stoves, furnaces, and other heating apparatus, Air-heating chamber for. R. Max. No. 974,581; Nov. 1; Sp. p. 1160; Gaz. vol. 160; p. 176.
Stoves, Gas-burning attachment for. A. Clausing. No. 964,611; July 19; Sp. p. 3456; Gaz. vol. 156; p. 591.
Stoves, Oil-burner attachment for. W. T. Cheistian. No. 955,499; Apr. 19; Sp. p. 3890; Gaz. vol. 153; p. 683.
Stoves, Oil-gas generator and burner for. J. F. Harrell. No. 964,775; July 19; Sp. p. 3900; Gaz. vol. 156; p. 648.
Stoves, Pilot-light for gas-. E. R. Mayer and J. G. Keegan. No. 971,769; Oct. 4; Sp. p. 540; Gaz. vol. 159; p. 95.
Stoves, ranges, and furnaces, Revolving grate for. A. Hawkins-Masters. No. 953,141; Mar. 29; Sp. p. 5518; Gaz. vol. 152; p. 1006.
Stovepipe. W. W. Graham. No. 955,153; Apr. 19; Sp. p. 3143; Gaz. vol. 153; p. 565.
Stovepipe and thimble. A. P. McGuirk. No. 961,519; June 14; Sp. p. 2634; Gaz. vol. 155; p. 460.
Stovepipe attachment. C. D. Pearce. No. 953,707; Apr. 5; Sp. p. 49; Gaz. vol. 153; p. 12.
Stovepipe-clamp. A. Schanfler. No. 972,652; Oct. 11; Sp. p. 2491; Gaz. vol. 159; p. 424.
Stovepipe-clamp. G. R. Beegen. No. 973,466; Oct. 25; Sp. p. 4304; Gaz. vol. 159; p. 755.
Stovepipe-cleaner. C. T. Harms. No. 946,129; Jan. 11; Sp. p. 2456; Gaz. vol. 150; p. 410.
Stovepipe-collar. M. B. Kendrick. No. 978,457; Dec. 13; Sp. p. 2243; Gaz. vol. 161; p. 389.
Stovepipe collar and anchor. E. E. Youtz. No. 948,602; Feb. 8; Sp. p. 1741; Gaz. vol. 151; p. 301.
Stovepipe-coupling. E. J. Babbitt. No. 962,298; June 21; Sp. p. 4326; Gaz. vol. 155; p. 746.
Stovepipe-fastener. G. G. Oswell. No. 961,985; June 21; Sp. p. 3635; Gaz. vol. 155; p. 639.
Stovepipe-forming machine. G. Berghausen. No. 947,291; Jan. 25; Sp. p. 5065; Gaz. vol. 150; p. 857.
Stovepipe-holder. L. A. and W. J. Shaw. No. 948,937; Feb. 8; Sp. p. 2425; Gaz. vol. 151; p. 413.
Stovepipe-holder. W. E. McCune. No. 957,571; May 10 Sp. p. 2284; Gaz. vol. 154; p. 396.
Stovepipe-holder. J. S. B. Walker. No. 976,015; Nov. 15; Sp. p. 4226; Gaz. vol. 160; p. 716.
Stovepipe-holder, Safety. J. W. Whitaker. No. 973,830; Oct. 25; Sp. p. 5067; Gaz. vol. 159; p. 881.
Stovepipe-joints, Locking means for. A. Blaha. No. 968,506; Aug. 23; Sp. p. 5674; Gaz. vol. 157; p. 977.
Stovepipe-lock. W. Hampton. No. 950,325; Feb. 22; Sp. p. 5391; Gaz. vol. 151; p. 946.
Stovepipe-lock. C. Roney. No. 976,603; Nov. 22; Sp. p. 5572; Gaz. vol. 160; p. 942.
Stovepipe-openings, Adjustable cap for. S. S. Wales. No. 976,321; Nov. 22; Sp. p. 4952; Gaz. vol. 160; p. 844.
Stovepipe or flue-cap fastener. J. E. Lang. No. 954,308; Apr. 5; Sp. p. 1306; Gaz. vol. 153; p. 216.
Stovepipe-snip. H. G. Millington. No. 959,245; May 24; Sp. p. 6134; Gaz. vol. 154; p. 1025.
Stovepipe-thimble. J. A. Brodin. No. 975,746; Nov. 15; Sp. p. 3702; Gaz. vol. 160; p. 624.
Stovepipe-ventilator. L. E. Hall. No. 947,816; Feb. 1; Sp. p. 65; Gaz. vol. 151; p. 14.
Straight-edge. L. R. Herman. No. 950,696; Mar. 1; Sp. p. 501; Gaz. vol. 152; p. 80.
Straight-edge and holder. T. Iwanami. No. 975,956; Nov. 15; Sp. p. 4120; Gaz. vol. 160; p. 696.
Straightening and hardening apparatus. A. W. Machlet. No. 976,891; Nov. 29; Sp. p. 6187; Gaz. vol. 160; p. 1065.
Straightening-machine. J. P. Haga. No. 962,831; June 28; Sp. p. 5469; Gaz. vol. 155; p. 955.
Strain-resisting mechanism. G. H. Forsyth. No. 945,226; Jan. 4; Sp. p. 457; Gaz. vol. 150; p. 75.
Strainer. J. M. Mulheir. No. 948,185; Feb. 1; Sp. p. 827; Gaz. vol. 151; p. 136.
Strainer. E. V. Hax. No. 948,421; Feb. 8; Sp. p. 1348; Gaz. vol. 151; p. 241.
Strainer. J. C. McKim. No. 948,900; Feb. 8; Sp. p. 2363; Gaz. vol. 151; p. 402.
Strainer. E. M. Newton. No. 959,581; May 31; Sp. p. 6831; Gaz. vol. 154; p. 1163.

Alphabetical list of inventions—Continued.

Strainer. C. G. Guttinger. No. 967,370; Aug. 16; Sp. p. 3284; Gaz. vol. 157; p. 569.
Strainer. H. F. Weinland. No. 968,822; Aug. 30; Sp. p. 6372; Gaz. vol. 157; p. 1111.
Strainer. W. S. Elliott. No. 974,044; Oct. 25; Sp. p. 5516; Gaz. vol. 159; p. 956.
Strainer. E. P. Gray. No. 975,687; Nov. 15; Sp. p. 3586; Gaz. vol. 160; p. 604.
Strainer, Closed fiber-. E. W. Deming. No. 962,324; June 21; Sp. p. 4376; Gaz. vol. 155; p. 755.
Strainer for sewer-traps. L. Berwanger. No. 951,795; Mar. 15; Sp. p. 2718; Gaz. vol. 152; p. 497.
Strainer, Hose-pipe. I. Brindle. No. 950,715; Mar. 1; Sp. p. 554; Gaz. vol. 152; p. 87.
Strainer, Milk-. A. L. Mowry and J. F. Mullaney. No. 966,039; Aug. 2; Sp. p. 420; Gaz. vol. 157; p. 67.
Strainer, Milk-. J. W. Fredrum. No. 969,357; Sept. 6; Sp. p. 436; Gaz. vol. 158; p. 70.
Strainer, Oil-. J. T. Bond. No. 970,982; Sept. 20; Sp. p. 3921; Gaz. vol. 158; p. 670.
Strainer or separator. H. E. Morley. No. 963,462; July 5; Sp. p. 1002; Gaz. vol. 156; p. 151.
Strainer, Pipe-. J. Levy. No. 960,649; June 7; Sp. p. 841; Gaz. vol. 155; p. 138.
Strainer, Sink-. J. E. Cody and F. J. Koors. No. 948,954; Feb. 8; Sp. p. 2467; Gaz. vol. 151; p. 419.
Strainer, Sink- J. Morgan. No. 950,574; Mar. 1; Sp. p. 235; Gaz. vol. 152; p. 39.
Strainer, Sink-. J. Bropson. No. 972,676; Oct. 11; Sp. p. 2535; Gaz. vol. 159; p. 432.
Strainer-support. H. M. Landgraff. No. 953,274; Mar. 29; Sp. p. 5803; Gaz. vol. 152; p. 1049.
Strainer, Tea and coffee. A. L. Lindroth. No. 956,115; Apr. 26; Sp. p. 5252; Gaz. vol. 153; p. 924.
Strainer, Tea and coffee. C. D. Johnson. No. 956,493; Apr. 26; Sp. p. 6094; Gaz. vol. 153; p. 1055.
Strainer, Tea or coffee. N. Barstow. No. 950,888; Mar. 1; Sp. p. 898; Gaz. vol. 152; p. 144.
Strainer, Twin. W. S. Elliott. No. 962,202; June 21; Sp. p. 4120; Gaz. vol. 155; p. 715.
Strainer, Vegetable or fruit. E. A. Beach. No. 960,248; June 7; Sp. p. 10; Gaz. vol. 155; p. 4.
Strainer, Water-. G. W. Collin. No. 948,311; Feb. 8; Sp. p. 1109; Gaz. vol. 151; p. 204.
Strainer, Well-bucket. W. F. C. Clay. No. 979,380; Dec. 20; Sp. p. 4230; Gaz. vol. 161; p. 729.
Straining-cloth holder. J. D. Tucker. No. 965,611; July 26; Sp. p. 5667; Gaz. vol. 156; p. 963.
Strap: *See* Bed-strap; Belt-strap; Breast-strap; Hammer-strap; Hand-strap; Hitch-strap; Loom-strap; Loom lug-strap; Loom picker-strap; Sealing-strap.
Strap-fastener. F. A. Carlson. No. 950,434; Feb. 22; Sp. p. 5594; Gaz. vol. 151; p. 981.
Strap-hanger, Passenger. W. B. McCarthy. No. 952,927; Mar. 22; Sp. p. 5045; Gaz. vol. 152; p. 906.
Strap-joint. J. H. Skidmore. No. 948,350; Feb. 8; Sp. p. 1186; Gaz. vol. 151; p. 218.
Strap supporter, Hip-. W. S. Mudd. No. 960,375; June 7; Sp. p. 280; Gaz. vol. 155; p. 47.
Strap-tightener, Detachable. P. D. Christman. No. 978,357; Dec. 13; Sp. p. 2031; Gaz. vol. 161; p. 354.
Strap-working machine. J. Thornton. No. 969,308; Sept. 6; Sp. p. 324; Gaz. vol. 158; p. 54.
Straw and chaff separator and stacker. H. P. Mohr. No. 949,361; Feb. 15; Sp. p. 3323; Gaz. vol. 151; p. 582.
Straw-burning furnace. A. G. Johnson. No. 957,163; May 3; Sp. p. 1416; Gaz. vol. 154; p. 226.
Straw-dispenser. A. Berman. No. 962,300; June 21; Sp. p. 4328; Gaz. vol. 155; p. 747.
Straw-elevator. W. V. Teeter. No. 973,892; Oct. 25; Sp. p. 5209; Gaz. vol. 159; p. 903.
Straw holder and dispenser. J. Gilbert. No. 967,014; Aug. 9; Sp. p. 2550; Gaz. vol. 157; p. 419.
Straw pads, Machine for making. C. M. Frazee. No. 960,083; May 31; Sp. p. 7945; Gaz. vol. 154; p. 1334.
Street and road construction. J. H. Amies. No. 958,063; May 17; Sp. p. 3537; Gaz. vol. 154; p. 596.
Street-box. W. McLean. No. 965,726; July 26; Sp. p. 5900; Gaz. vol. 156; p. 1003.
Street-calling device, Automatic. R. M. McGee. No. 972,397; Oct. 11; Sp. p. 1908; Gaz. vol. 159; p. 335.
Street-cleaning apparatus. S. Whinery. No. 973,091; Oct. 18; Sp. p. 3484; Gaz. vol. 159; p. 602.
Street-cleaning machine. J. W. Dougherty. No. 948,164; Feb. 1; Sp. p. 786; Gaz. vol. 151; p. 130.
Street-cleaning machine. R. H. Stephens, W. F. Davidson, and D. C. Smith. No. 965,764; July 26; Sp. p. 5977; Gaz. vol. 156; p. 1016.
Street-cleaning machine. R. A. Rutherfurd and M. Craven. No. 978,216; Dec. 13; Sp. p. 1731; Gaz. vol. 161; p. 305.
Street-gage. P. Roughen. No. 953,490; Mar. 29; Sp. p. 6269; Gaz. vol. 152; p. 1124.
Street-indicating device. G. H. Doyle. No. 951,600; Mar. 8; Sp. p. 2302; Gaz. vol. 152; p. 399.
Street-indicator. F. D. Carson and D. C. Johnson. No. 947,570; Jan. 25; Sp. p. 5734; Gaz. vol. 150; p. 952.
Street-indicator. E. C. Schwartz. No. 955,215; Apr. 19; Sp. p. 3281; Gaz. vol. 153; p. 587.
Street-indicator. H. P. Brace. No. 960,803; June 7; Sp. p. 1141; Gaz. vol. 155; p. 191.
Street-indicator. H. E. Fisher. No. 974,763; Nov. 1; Sp. p. 1549; Gaz. vol. 160; p. 238.
Street or station indicator. H. P. Magone. No. 949,397; Feb. 15; Sp. p. 3410; Gaz. vol. 151; p. 595.
Street or station indicator. H. Alwies. No. 964,835; July 19; Sp. p. 4015; Gaz. vol. 156; p. 668.
Street sprinkling or flushing wagon. J. Ganey. No. 974,764; Nov. 1; Sp. p. 1552; Gaz. vol. 160; p. 239.
Street-sprinkling system. J. H. Carmack. No. 965,077; July 19; Sp. p. 4504; Gaz. vol. 156; p. 749.
Street-surface-cutting device. A. Rosenholz. No. 968,422; Aug. 23; Sp. p. 5498; Gaz. vol. 157; p. 948.
Street-sweeper. O. Grimwood. No. 949,069; Feb. 15; Sp. p. 2720; Gaz. vol. 151; p. 483.
Street-sweeper. J. Otis. No. 959,380; May 24; Sp. p. 6397; Gaz. vol. 154; p. 1069.
Street-sweeper. E. F. Spicer. No. 965,245; July 26; Sp. p. 4837; Gaz. vol. 156; p. 836.
Street-sweeper. O. L. Neisler. No. 969,556; Sept. 6; Sp. p. 873; Gaz. vol. 158; p. 137.
Street-sweeper. H. H. Brooks. No. 971,661; Oct. 4; Sp. p. 314; Gaz. vol. 159; p. 56.
Street-sweeping machine. H. R. Harn. No. 953,201; Mar. 29; Sp. p. 5642; Gaz. vol. 152; p. 1025.
Street-sweeping machine. J. Fowler. No. 959,000; May 24; Sp. p. 5619; Gaz. vol. 154; p. 943.
Street-sweeping machine. R. A. Rutherfurd. No. 978,784; Dec. 13; Sp. p. 2949; Gaz. vol. 161; p. 499.
Strength-testing machine. W. H. Johnson. No. 948,140; Feb. 1; Sp. p. 746; Gaz. vol. 151; p. 122.
Stretcher. W. B. Reed. No. 975,996; Nov. 15; Sp. p. 4188; Gaz. vol. 160; p. 710.
Stretcher for hospital and other purposes. W. F. Bernstein. No. 970,877; Sept. 20; Sp. p. 3722; Gaz. vol. 158; p. 636.
Stretching device. J. G. Eckhart and H. M. Fisher. No. 952,241; Mar. 15; Sp. p. 3584; Gaz. vol. 152; p. 644.
Stretching-frame. J. J. Robinson. No. 974,600; Nov. 1; Sp. p. 1194; Gaz. vol. 160; p. 183.
Striking-block and angle-cock holder. L. A. Hoerr. No. 969,623; Sept. 6; Sp. p. 1009; Gaz. vol. 158; p. 161.
Striking mechanism. H. A. Sedgwick. No. 975,372; Nov. 8; Sp. p. 2903; Gaz. vol. 160; p. 469.
Striking-tool. W. C. Michael. No. 947,391; Jan. 25; Sp. p. 5306; Gaz. vol. 150; p. 892.
String-clasp. S. Stewart. No. 979,588; Dec. 27; Sp. p. 4693; Gaz. vol. 161; p. 824.
String instrument, Pneumatically-operated. R. Frömsdorf. No. 964,013; July 12; Sp. p. 2183; Gaz. vol. 156; p. 358.
String or cord fastener. C. W. Hamilton. No. 951,114; Mar. 8; Sp. p. 1317; Gaz. vol. 152; p. 241.
Stringed-instrument-fretting device. H. Schlemmer. No. 974,094; Oct. 25; Sp. p. 5609; Gaz. vol. 159; p. 972.
Stringed-instrument-tuning device. H. Schlemmer. No. 974,095; Oct. 25; Sp. p. 5611; Gaz. vol. 159; p. 972.
Stringed instruments, Tailpiece for. J. Lindsey. No. 945,102; Jan. 4; Sp. p. 199; Gaz. vol. 150; p. 34.
Strip-cutter. A. J. Pierce. No. 961,643; June 14; Sp. p. 2897; Gaz. vol. 155; p. 501.
Strip-severing machine. T. G. Paddack. No. 972,221; Oct. 11; Sp. p. 1568; Gaz. vol. 159; p. 275.
Stropper: *See* Razor-stropper.
Stropping-machine. E. B. Gibford. No. 951,240; Mar. 8; Sp. p. 1566; Gaz. vol. 152; p. 281.
Stropping-machine. A. A. Pratt. No. 967,832; Aug. 16; Sp. p. 4232; Gaz. vol. 157; p. 724.
Stropping-roller. M. H. Avram. No. 950,527; Mar. 1; Sp. p. 143; Gaz. vol. 152; p. 23.
Structural metal shape. P. Stragiotti. No. 951,348; Mar. 8; Sp. p. 1799; Gaz. vol. 152; p. 316.
Structure, Interlocking sectional. H. G. Conrad. No. 946,111; Jan. 11; Sp. p. 2423; Gaz. vol. 150; p. 403.
Structure, Knockdown. F. T. Sullivan. No. 947,655; Jan. 25; Sp. p. 5910; Gaz. vol. 150; p. 981.
Structure, Masonry. R. Guastavino. No. 947,177; Jan. 18; Sp. p. 4783; Gaz. vol. 150; p. 788.
Structure, Reinforced. D. B. Luten. No. 979,776; Dec. 27; Sp. p. 5099; Gaz. vol. 161; p. 888.
Structure, Reinforcing. G. J. Schade. No. 947,044; Jan. 18; Sp. p. 4533; Gaz. vol. 150; p. 747.
Structure, Trussed. P. B. Harrison. No. 960,639; June 7; Sp. p. 819; Gaz. vol. 155; p. 134.
Structure, Trussed. P. B. Harrison. No. 980,099; Dec. 27; Sp. p. 5801; Gaz. vol. 161; p. 995.
Structures and structure so reinforced, Reinforcing member for hollow. H. H. Hilborn and C. E. Roehl. No. 947,178; Jan. 18; Sp. p. 4785; Gaz. vol. 150; p. 789.
Stubble-burner. W. E. Converse. No. 960,826; June 7; Sp. p. 1192; Gaz. vol. 155; p. 198.
Stubble-shaver, Lever. E. Newchurch and C. Bernard. No. 978,472; Dec. 13; Sp. p. 2271; Gaz. vol. 161; p. 394.
Stud. H. C. Ward. No. 976,016; Nov. 15; Sp. p. 4227; Gaz. vol. 160; p. 717.
Stud, Bearing-. W. A. Buettner and A. Shelburne. No. 948,987; Feb. 15; Sp. p. 2540; Gaz. vol. 151; p. 457.
Stud, Collar-. P. Eppelein. No. 954,505; Apr. 12; Sp. p. 1729; Gaz. vol. 153; p. 311.
Stud, Collar-. L. Smith. No. 968,707; Aug. 30; Sp. p. 6148; Gaz. vol. 157; p. 1073.

Alphabetical list of inventions—Continued.

Stud, Collar-. L. J. F. Hubert. No. 973,506; Oct. 25; Sp. p. 4395; Gaz. vol. 159; p. 768.
Stud or block, Antislipping. T. Sloper. No. 948,435; Feb. 8; Sp. p. 1376; Gaz. vol. 151; p. 245.
Stud or furring-strip, Metallic. W. B. Phillips. No. 963,938; July 12; Sp. p. 2018; Gaz. vol. 156; p. 332.
Stud or similar fastening, Collar-. L. A. Pichon and C. M. V. Allenou. No. 960,581; June 7; Sp. p. 701; Gaz. vol. 155; p. 115.
Studding, Composition. O. M. Knode. No. 959,946; May 31; Sp. p. 7628; Gaz. vol. 154; p. 1287.
Studding for plaster-boards. H. H. Burson. No. 979,643; Dec. 27; Sp. p. 4809; Gaz. vol. 161; p. 844.
Studding for wall or ceiling boards. H. H. Burson. No. 969,086; Aug. 30; Sp. p. 6900; Gaz. vol. 157; p. 1202.
Studding, Metal. H. E. White. No. 955,111; Apr. 12; Sp. p. 3041; Gaz. vol. 153; p. 516.
Studding, Metal. C. Horix. No. 955,401; Apr. 19; Sp. p. 3693; Gaz. vol. 153; p. 649.
Stuffing-box. G. Strance, R. S. Bull, and W. P. Norris. No. 946,408; Jan. 11; Sp. p. 3162; Gaz. vol. 150; p. 509.
Stuffing-box. W. C. Short. No. 969,207; Sept. 6; Sp. p. 139; Gaz. vol. 158; p. 22.
Stuffing-box. J. H. Reese and T. F. Dunlavy. No. 972,247; Oct. 11; Sp. p. 1603; Gaz. vol. 159; p. 283.
Stuffing-box. W. Johnson. No. 975,045; Nov. 8; Sp. p. 2199; Gaz. vol. 160; p. 357.
Stuffing-box. F. C. Krüger. No. 978,310; Dec. 13; Sp. p. 1937; Gaz. vol. 161; p. 338.
Stuffing-box and clamp, Combination. A. F. Clarke. No. 951,594; Mar. 8; Sp. p. 2294; Gaz. vol. 152; p. 398.
Stuffing-box and lubricator, Piston-rod. W. McLain. No. 978,611; Dec. 13; Sp. p. 2605; Gaz. vol. 161; p. 444.
Stuffing-box for roller-shafts. H. Schwarz. No. 970,564; Sept. 20; Sp. p. 3032; Gaz. vol. 158; p. 528.
Stuffing-box, gasket, valve, and spring, Combined. G. L. Kennedy. No. 957,347; May 10; Sp. p. 1843; Gaz. vol. 154; p. 321.
Stuffing-boxes, Apparatus for packing and unpacking. A. Meier and H. Dumelin. No. 974,583; Nov. 1; Sp. p. 1164; Gaz. vol. 160; p. 176.
Stuffing-machine. R. and P. J. Brownson. No. 976,982; Nov. 29; Sp. p. 6427; Gaz. vol. 160; p. 1097.
Stuffing-rod. O. Brookman. No. 957,737; May 10; Sp. p. 2615; Gaz. vol. 154; p. 453.
Stump-extractor. E. A. Ableman. No. 955,737; Apr. 19; Sp. p. 4428; Gaz. vol. 153; p. 764.
Stump-puller. J. M. Mitchell. No. 959,372; May 24; Sp. p. 6381; Gaz. vol. 154; p. 1066.
Stump-puller. S. R. Hart. No. 961,074; June 7; Sp. p. 1693; Gaz. vol. 155; p. 281.
Stump-puller. E. C. Anderson. No. 967,300; Aug. 16; Sp. p. 3141; Gaz. vol. 157; p. 543.
Stump-splitter. J. Weinberg. No. 953,162; Mar. 29; Sp. p. 5557; Gaz. vol. 152; p. 1013.
Subfloating bodies, Automatic depth-regulating device for freely-. K. O. Leon. No. 952,452; Mar. 22; Sp. p. 4016; Gaz. vol. 152; p. 743.
Subirrigation system. J. P. Hardin. No. 965,895; Aug. 2; Sp. p. 106; Gaz. vol. 157; p. 18.
Submarine boring, blasting, pile-driving, block-setting, and like operations, Staging or support for. R. A. A. S. Piercy. No. 968,975; Aug. 30; Sp. p. 6676; Gaz. vol. 157; p. 1163.
Subsoiler. E. G. Bishop. No. 953,893; Apr. 5; Sp. p. 414; Gaz. vol. 153; p. 75.
Substances of high resistance, Manufacturing. A. Schlomann. No. 955,360; Apr. 19; Sp. p. 3598; Gaz. vol. 153; p. 635.
Substation protector unit. W. Kaisling. No. 955,806; Apr. 19; Sp. p. 4552; Gaz. vol. 153; p. 787.
Subway. G. W. Jackson. No. 948,451; Feb. 8; Sp. p. 1408; Gaz. vol. 151; p. 251.
Subway construction. E. B. Hess. No. 962,145; June 21; Sp. p. 4005; Gaz. vol. 155; p. 696.
Subway construction. E. B. Hess. No. 977,306; Nov. 29; Sp. p. 7104; Gaz. vol. 160; p. 1209.
Subway-ventilator. G. W. Jackson. No. 974,151; Nov. 1; Sp. p. 87; Gaz. vol. 160; p. 18.
Sucker-rod elevator. A. R. Peters. No. 976,910; Nov. 29; Sp. p. 6227; Gaz. vol. 160; p. 1071.
Suction-box. J. F. King and J. Neary. No. 957,217; May 10; Sp. p. 1549; Gaz. vol. 154; p. 274.
Suction-box. D. S. Zimmerman. No. 970,776; Sept. 20; Sp. p. 3520; Gaz. vol. 158; p. 602.
Suction-cleaner, Portable hand-operated. D. P. Moore. No. 963,008; June 28, Sp. p. 5797; Gaz. vol. 155; p. 1015.
Suction cleaning apparatus, Separator for. D. Hurley. No. 965,581; July 26; Sp. p. 5599; Gaz. vol. 156; p. 953.
Suction-cup. E. Noppel. No. 963,060; July 5; Sp. p. 64; Gaz. vol. 156; p. 13.
Suction-slice. W. H. Millspaugh. No. 957,981; May 17; Sp. p. 3214; Gaz. vol. 154; p. 566.
Suction supporting device. C. A. Austin. No. 952,495; Mar. 22; Sp. p. 4117; Gaz. vol. 152; p. 758.
Suction-ventilator. G. K. and A. A. Larson. No. 946,941; Jan. 18; Sp. p. 4338; Gaz. vol. 150; p. 713.
Sugar, Apparatus for the treatment or preparation of. E. Shaw. No. 957,113; May 3; Sp. p. 1308; Gaz. vol. 154; p. 209.
Sugar-beets, Treating. M. Weinrich. No. 950,035; Feb. 22; Sp. p. 4815; Gaz. vol. 151; p. 847.
Sugar-cane or sugar-beet, Extracting juice from. J. J. Homans. No. 978,451; Dec. 13; Sp. p. 2227; Gaz. vol. 161; p. 386.
Sugar, Converting starchy material into. J. Takamine. No. 975,656; Nov. 15; Sp. p. 3519; Gaz. vol. 160; p. 594.
Sugar crusher and pulverizer. L. Bandement and W. Héring. No. 979,364; Dec. 20; Sp. p. 4204; Gaz. vol. 161; p. 724.
Sugar into a creamy paste, Machine for transforming boiled. W. J. Sluka. No. 976,511; Nov. 22; Sp. p. 5362; Gaz. vol. 160; p. 910.
Sugar-juice, Apparatus for separating scum and precipitates from. J. J. Homans. No. 978,450; Dec. 13; Sp. p. 2225; Gaz. vol. 161; p. 386.
Sugar-juice, Separating scum from. J. J. Homans. No. 978,750; Dec. 13; Sp. p. 2887; Gaz. vol. 161; p. 489.
Sugar-juices, Apparatus for treating. E. W. Deming and A. F. Gaiennie. No. 967,340; Aug. 16; Sp. p. 3223; Gaz. vol. 157; p. 558.
Sugar, Making grape-. G. Ekström. No. 970,029; Sept. 13; Sp. p. 1923; Gaz. vol. 158; p. 326.
Sugar manufacture. H. C. Christianson. No. 968,327; Aug. 23; Sp. p. 5314; Gaz. vol. 157; p. 916.
Sugar-mill housing. W. G. Hall. No. 966,199; Aug. 2; Sp. p. 766; Gaz. vol. 157; p. 121.
Sugar wafers and the like, Machine for making. R. L. Trewick. No. 967,147; Aug. 9; Sp. p. 2836; Gaz. vol. 157; p. 465.
Suit-case. S. Dresner. No. 958,860; May 24; Sp. p. 5330; Gaz. vol. 154; p. 896.
Suit-case. I. E. A. Jensen. No. 968,479; Aug. 23; Sp. p. 5607; Gaz. vol. 157; p. 968.
Suit-cases and bags, Mechanism for applying corner-pieces to. S. Grossman. No. 969,471; Sept. 6; Sp. p. 676; Gaz. vol. 158; p. 107.
Suit-hanger. L. Gemmer. No. 965,577; July 26; Sp. p. 5593; Gaz. vol. 156; p. 952.
Suit, Union. S. L. Heacock. No. 973,274; Oct. 18; Sp. p. 3893; Gaz. vol. 159; p. 666.
Sulfids or sulfates, Treating. U. Wedge. No. 976,525; Nov. 22; Sp. p. 5410; Gaz. vol. 160; p. 915.
Sulfur, Apparatus for recovering. P. S. Smith. No. 945,111; Jan. 4; Sp. p. 214; Gaz. vol. 150; p. 36.
Sulfur-burner. C. B. Clark. No. 952,100; Mar. 1; Sp. p. 3316; Gaz. vol. 152; p. 597.
Sulfur-burner. P. H. Grimm. No. 957,418; May 10; Sp. p. 1989; Gaz. vol. 154; p. 343.
Sulfur-burner. G. Oddo. No. 959,250; May 24; Sp. p. 6141; Gaz. vol. 154; p. 1026.
Sulfur-burning furnace. C. B. Clark. No. 952,099; Mar. 15; Sp. p. 3312; Gaz. vol. 152; p. 597.
Sulfur chlorid, Making. W. C. Quayle. No. 961,530; June 14; Sp. p. 2665; Gaz. vol. 155; p. 463.
Sulfur dioxid, Obtaining. C. B. Clark. No. 952,098; Mar. 15; Sp. p. 3310; Gaz. vol. 152; p. 596.
Sulfur from sulfur-bearing gases, Apparatus for recovering. P. S. Smith. No. 945,112; Jan. 4; Sp. p. 218; Gaz. vol. 150; p. 37.
Sulfur, phosphorus, and other impurities from coal, ore, &c., Extracting or eliminating. L. L. Summers. No. 967,996; Aug. 23; Sp. p. 4575; Gaz. vol. 157; p. 802.
Sulky. H. J. Miller. No. 948,767; Feb. 8; Sp. p. 2108; Gaz. vol. 151; p. 358.
Sulky. J. H. Dickson. No. 960,848; June 7; Sp. p. 1227; Gaz. vol. 155; p. 205.
Sulky, Child's. J. N. Wheeler. No. 977,495; Dec. 6; Sp. p. 146; Gaz. vol. 161; p. 26.
Sulky-seat, Adjustable. A. Wilshire. No. 969,825; Sept. 13; Sp. p. 1479; Gaz. vol. 158; p. 255.
Sulky, Trotting-. J. H. Dickson. No. 965,133; July 19; Sp. p. 4607; Gaz. vol. 156; p. 768.
Sulky, Trotting-. G. W. Hubbard. No. 970,828; Sept. 20; Sp. p. 3640; Gaz. vol. 158; p. 621.
Sun-dial. W. M. Homan. No. 946,223; Jan. 11; Sp. p. 2661; Gaz. vol. 150; p. 443.
Sun-dial gnomon. F. J. Dick. No. 978,859; Dec. 20; Sp. p. 3090; Gaz. vol. 161; p. 548.
Sunbonnet. M. E. Baldwin. No. 958,715; May 24; Sp. p. 4983; Gaz. vol. 154; p. 843.
Sunshade. C. I. Howard. No. 971,503; Sept. 27; Sp. p. 4960; Gaz. vol. 158; p. 868.
Superheater. H. W. Jacobs. No. 948,331; Feb. 8; Sp. p. 1144; Gaz. vol. 151; p. 210.
Superheater. J. E. Bell. No. 954,913; Apr. 12; Sp. p. 2685; Gaz. vol. 153; p. 454.
Superheater. W. F. Buck. No. 966,792; Aug. 9; Sp. p. 2081; Gaz. vol. 157; p. 346.
Superheater. W. F. Buck and H. W. Jacobs. No. 971,522; Oct. 4; Sp. p. 22; Gaz. vol. 159; p. 6.
Superheater-boiler. J. E. Bell. No. 954,914; Apr. 12; Sp. p. 2689; Gaz. vol. 153; p. 454.
Superheater-boiler. J. P. Sneddon. No. 973,717; Oct. 25; Sp. p. 4845; Gaz. vol. 159; p. 841.
Superheater, Independently-fired. J. E. Bell. No. 973,743; Oct. 25; Sp. p. 4890; Gaz. vol. 159; p. 850.
Superheaters or feed-water heaters, Deflector for smoke-box. S. M. Vauclain. No. 978,795; Dec. 13; Sp. p. 2968; Gaz. vol. 161; p. 502.

Superheating-boiler. A. B. Stirling. No. 963,257; July 5; Sp. p. 595; Gaz. vol. 156; p. 82.
Superphosphate out of decomposition-chambers, Device for emptying. K. J. Beskow and M. Ekedahl. No. 956,792; May 3; Sp. p. 625; Gaz. vol. 154; p. 100.
Superphosphates from the decomposition-chamber, Apparatus for removing. K. J. Beskow. No. 949,055; Feb. 15; Sp. p. 2694; Gaz. vol. 151; p. 479.
Supplemental wheel. M. D. Stocking. No. 945,058; Jan. 4; Sp. p. 105; Gaz. vol. 150; p. 18.
Supply and overflow fixture, Combination. W. S. Graham. No. 954,731; Apr. 12; Sp. p. 2239; Gaz. vol. 153; p. 389.
Supply-case. H. F. Wallace. No. 956,613; May 3; Sp. p. 229; Gaz. vol. 154; p. 39.
Support, Vertically-adjustable. W. B. Cogger. No. 968,449; Aug. 23; Sp. p. 5548; Gaz. vol. 157; p. 957.
Supporter. A. Quenzer. No. 949,716; Feb. 15; Sp. p. 4017; Gaz. vol. 151; p. 699.
Supporter. F. C. Ferrell. No. 949,728; Feb. 15; Sp. p. 4050; Gaz. vol. 151; p. 703.
Supporter. M. M. Buchholz and M. A. Malloy. No. 950,993; Mar. 1; Sp. p. 1100; Gaz. vol. 152; p. 177.
Supporting appliance. T. A. B. Carver. No. 952,184; Mar. 15; Sp. p. 3469; Gaz. vol. 152; p. 624.
Supporting device, Adjustable. A. V. Brown. No. 971,878; Oct. 4; Sp. p. 779; Gaz. vol. 159; p. 136.
Supporting device. J. L. Lederer. No. 976,472; Nov. 22; Sp. p. 5289; Gaz. vol. 160; p. 897.
Supporting means, Pneumatic. G. von Schantz. No. 966,864; Aug. 9; Sp. p. 2236; Gaz. vol. 157; p. 368.
Supporting-post. B. E. Rudd. No. 970,116; Sept. 13; Sp. p. 2086; Gaz. vol. 158; p. 355.
Surf-compressor apparatus. J. L. Matthews. No. 965,208; July 26; Sp. p. 4765; Gaz. vol. 156; p. 824.
Surface-finishing machine. S. T. Johnson. No. 949,037; Feb. 15; Sp. p. 2660; Gaz. vol. 151; p. 474.
Surface-gage, Indicating. W. H. Reisner and V. E. Middlekauff. No. 968,884; Aug. 30; Sp. p. 6502; Gaz. vol. 157; p. 1132.
Surfacing-machine. E. J. Bein. No. 947,491; Jan. 25; Sp. p. 5569; Gaz. vol. 150; p. 925.
Surfacing-machine. A. Bevan. No. 979,739; Dec. 27; Sp. p. 5018; Gaz. vol. 161; p. 876.
Surfacing-roll. A. Bevan. No. 948,157; Feb. 1; Sp. p. 778; Gaz. vol. 151; p. 128.
Surge-tank, Pressure-regulating. J. T. Fanning. No. 973,183; Oct. 18; Sp. p. 3721; Gaz. vol. 159; p. 635.
Surgeon's and physician's case. M. P. Hermann and C. H. Wolff. No. 951,564; Mar. 8; Sp. p. 2239; Gaz. vol. 152; p. 389.
Surgeon's operating-pan. F. R. Lintleman. No. 959,564; May 31; Sp. p. 6803; Gaz. vol. 154; p. 1157.
Surgeon's scissors. G. H. Peddle. No. 973,296; Oct. 18; Sp. p. 3934; Gaz. vol. 159; p. 673.
Surgical appliance. W. C. Yates. No. 947,725; Jan. 25; Sp. p. 6027; Gaz. vol. 150; p. 1004.
Surgical appliance. J. N. Alexander. No. 950,065; Feb. 22; Sp. p. 4866; Gaz. vol. 151; p. 856.
Surgical appliance. T. E. Rodgers. No. 959,389; May 24; Sp. p. 6410; Gaz. vol. 154; p. 1072.
Surgical appliance. S. G. Tibbs. No. 967,269; Aug. 16; Sp. p. 3080; Gaz. vol. 157; p. 533.
Surgical appliance. A. J. Petter. No. 971,783; Oct. 4; Sp. p. 571; Gaz. vol. 159; p. 100.
Surgical attachment for cots or beds. E. E. McMahan. No. 962,380; June 21; Sp. p. 4483; Gaz. vol. 155; p. 774.
Surgical bandage. E. M. Pond. No. 974,294; Nov. 1; Sp. p. 490; Gaz. vol. 160; p. 72.
Surgical bandage. E. M. Pond. No. 974,295; Nov. 1; Sp. p. 492; Gaz. vol. 160; p. 72.
Surgical bandages, corsets, &c., Strap for. M. C. Ninde. No. 967,547; Aug. 16; Sp. p. 3655; Gaz. vol. 157; p. 628.
Surgical binder. R. V. Coddington. No. 976,550; Nov 22; Sp. p. 5470; Gaz. vol. 160; p. 924.
Surgical chair. I. Eaton. No. 951,560; Mar. 8; Sp. p. 2233; Gaz. vol. 152; p. 387.
Surgical clamp. S. L. Kistler. No. 963,899; July 12; Sp. p. 1947; Gaz. vol. 156; p. 320.
Surgical-clip applier. A. Le Witt. No. 948,456; Feb. 8; Sp. p. 1415; Gaz. vol. 151; p. 253.
Surgical device for expanding collapsed lungs. J. S. Dean. No. 978,708; Dec. 13; Sp. p. 2791; Gaz. vol. 161; p. 475.
Surgical forceps. A. F. Sether. No. 945,292; Jan. 4; Sp. p. 621; Gaz. vol. 150; p. 97.
Surgical instrument. J. C. Goosmann. No. 947,382; Jan. 25; Sp. p. 5293; Gaz. vol. 150; p. 889.
Surgical instrument. J. S. Rydell. No. 958,179; May 17; Sp. p. 3770; Gaz. vol. 154; p. 637.
Surgical instrument. C. S. Cowie. No. 969,134; Aug. 30; Sp. p. 7010; Gaz. vol. 157; p. 1219.
Surgical instrument. C. Waldvogel. No. 969,579; Sept. 6; Sp. p. 917; Gaz. vol. 158; p. 146.
Surgical instrument. G. E. Gwinn. No. 974,879; Nov. 8; Sp. p. 1813; Gaz. vol. 160; p. 301.
Surgical instrument. G. N. Murphy. No. 977,825; Dec. 6; Sp. p. 884; Gaz. vol. 161; p. 139.
Surgical instrument. H. Johnson. No. 979,505; Dec. 27; Sp. p. 4498; Gaz. vol. 161; p. 794.
Surgical ligatures and other purposes, Cord for. P. H. J. M. C. de Géry. No. 977,383; Nov. 29; Sp. p. 7280; Gaz. vol. 160; p. 1236.
Surgical needle, Quick-threading. M. J. C. Nyborg. No. 965,219; July 26; Sp. p. 4782; Gaz. vol. 156; p. 827.
Surgical table. S. M. Langworthy. No. 978,760; Dec. 13; Sp. p. 2905; Gaz. vol. 161; p. 491.
Surgical use, Aseptic needle-thread holder for. M. G. Heitz-Boyer. No. 962,218; June 21; Sp. p. 4145; Gaz. vol. 155; p. 720.
Surveying and like purposes, Instrument for. E. H. V. Melvill. No. 979,531; Dec. 27; Sp. p. 4556; Gaz. vol. 161; p. 804.
Surveying apparatus. M. W. Tebyriçá. No. 969,732; Sept. 6; Sp. p. 1235; Gaz. vol. 158; p. 199.
Surveying instrument. M. J. Dikeman. No. 958,794; May 24; Sp. p. 5180; Gaz. vol. 154; p. 872.
Surveying instrument. P. Ferber. No. 975,682; Nov. 15; Sp. p. 3578; Gaz. vol. 160; p. 602.
Surveying-instrument clamp. P. R. Heer. No. 964,776; July 19; Sp. p. 3902; Gaz. vol. 156; p. 649.
Surveyor's reel. W. W. Morgan. No. 974,417; Nov. 1; Sp. p. 761; Gaz. vol. 160; p. 115.
Suspender attachment. H. H. Kramer. No. 970,931; Sept. 20; Sp. p. 3827; Gaz. vol. 158; p. 653.
Suspender attachment. W. D. Flynn. No. 979,838; Dec. 27; Sp. p. 5256; Gaz. vol. 161; p. 910.
Suspender-end cast-off. J. F. Molloy. No. 966,940; Aug. 9; Sp. p. 2393; Gaz. vol. 157; p. 393.
Suspender-straps, Adjustable fastening device for. J. H. Young. No. 959,681; May 31; Sp. p. 7040; Gaz. vol. 154; p. 1195.
Suspenders. H. H. Small. No. 963,083; July 5; Sp. p. 116; Gaz. vol. 156; p. 21.
Suspenders. J. Rich. No. 967,057; Aug. 9; Sp. p. 2640; Gaz. vol. 157; p. 434.
Suspenders. H. H. Small. No. 967,454; Aug. 16; Sp. p. 3457; Gaz. vol. 157; p. 596.
Suspenders. C. A. Lations. No. 970,511; Sept. 20; Sp. p. 2916; Gaz. vol. 158; p. 509.
Suspenders. E. J. Hayden and J. R. Gordon. No. 979,947; Dec. 27; Sp. p. 5471; Gaz. vol. 161; p. 945.
Suspenders loop, Overalls-. C. E. Howe. No. 961,718; June 14; Sp. p. 3039; Gaz. vol. 155; p. 527.
Suspending device, Suction. C. A. Austin. No. 963,264; July 5; Sp. p. 609; Gaz. vol. 156; p. 85.
Suspension-clamp. A. O. Austin. No. 951,298; Mar. 8; Sp. p. 1692; Gaz. vol. 152; p. 299.
Suspension-hook. D. Williams. No. 968,621; Aug. 30; Sp. p. 5926; Gaz. vol. 157; p. 1044.
Swage, Casing-. R. W. Eames. No. 980,079; Dec. 27; Sp. p. 5750; Gaz. vol. 161; p. 988.
Swaging and sizing machine, Automatic. A. D. Caverno. No. 972,599; Oct. 11; Sp. p. 2381; Gaz. vol. 159; p. 406.
Swaging-machine. A. Berg. No. 952,298; Mar. 15; Sp. p. 3709; Gaz. vol. 152; p. 663.
Swaging-machine. H. Henrich. No. 953,616; Mar. 29; Sp. p. 6537; Gaz. vol. 152; p. 1168.
Swaging-machine. S. Z. de Ferranti. No. 972,837; Oct. 18; Sp. p. 2880; Gaz. vol. 159; p. 513.
Sweat-band. F. J. Lauermann. No. 968,369; Aug. 23; Sp. p. 5396; Gaz. vol. 157; p. 931.
Sweep-rake. C. Pearson. No. 958,432; May 17; Sp. p. 4438; Gaz. vol. 154; p. 725.
Sweep-shaper. J. F. Whelchel. No. 978,416; Dec. 13; Sp. p. 2162; Gaz. vol. 161; p. 375.
Sweepers, Attachment for vacuum-. J. Broekema. No. 954,164; Apr. 5; Sp. p. 993; Gaz. vol. 153; p. 168.
Sweeping composition. O. W. Severns. No. 966,060; Aug. 2; Sp. p. 472; Gaz. vol. 157; p. 76.
Sweeping compound and making same. J. P. Porteus. No. 958,007; May 17; Sp. p. 3303; Gaz. vol. 154; p. 575.
Sweeping-machine. J. Cable. No. 947,963; Feb. 1; Sp. p. 391; Gaz. vol. 151; p. 62.
Sweeping-machine. L. Soos. No. 971,158; Sept. 27; Sp. p. 4295; Gaz. vol. 158; p. 756.
Swimming apparatus. W. H. Boregard. No. 962,415; June 28; Sp. p. 4584; Gaz. vol. 155; p. 810.
Swimming appliance. G. C. Bailey. No. 967,144; Aug. 9; Sp. p. 2829; Gaz. vol. 157; p. 464.
Swimming appliance. D. Smith. No. 973,224; Oct. 18; Sp. p. 3796; Gaz. vol. 159; p. 649.
Swimming-bag. R. L. F. Berry. No. 977,065; Nov. 29; Sp. p. 6593; Gaz. vol. 160; p. 1125.
Swimming device. E. Eastman. No. 950,633; Mar. 1; Sp. p. 363; Gaz. vol. 152; p. 59.
Swing. H. A. Myers. No. 946,558; Jan. 18; Sp. p. 3473; Gaz. vol. 150; p. 584.
Swing. G. E. Knowlton. No. 950,568; Mar. 1; Sp. p. 226; Gaz. vol. 152; p. 37.
Swing. R. W. Easton and E. T. Winkler. No. 951,061; Mar. 1; Sp. p. 1207; Gaz. vol. 152; p. 198.
Swing. W. H. Virgie. No. 959,085; May 24; Sp. p. 5804; Gaz. vol. 154; p. 972.
Swing. A. W. Lyda. No. 977,206; Nov. 29; Sp. p. 6922; Gaz. vol. 160; p. 1176.
Swing. G. Simon. No. 979,580; Dec. 27; Sp. p. 4678; Gaz. vol. 161; p. 821.
Swing, Gliding. F. S. Spaulding. No. 957,855; May 10; Sp. p. 2865; Gaz. vol. 154; p. 491.

Alphabetical list of inventions—Continued.

Swing, Indoor. J. W. Chlad. No. 955,135; Apr. 19; Sp. p. 3110; Gaz. vol. 153; p. 558.
Swing, Lawn-. B. C. Rockwell. No. 952,360; Mar. 15; Sp. p. 3827; Gaz. vol. 152; p. 684.
Swing, Lawn-. G. H. Michael. No. 954,197; Apr. 5; Sp. p. 1060; Gaz. vol. 153; p. 180.
Swing, Rotary. C. A. Lewis. No. 946,639; Jan. 18; Sp. p. 3643; Gaz. vol. 150; p. 610.
Swinging chair. J. T. Williams. No. 979,236; Dec. 20; Sp. p. 3957; Gaz. vol. 161; p. 683.
Swinging chair, Adjustable. W. A. Bringham. No. 953,591; Mar. 29; Sp. p. 6485; Gaz. vol. 152; p. 1159.
Swinging chair, Child's. H. C. Benner. No. 955,841; Apr. 26; Sp. p. 4655; Gaz. vol. 153; p. 829.
Swinging gate. J. V. Perego. No. 952,211; Mar. 15; Sp. p. 3524; Gaz. vol. 152; p. 634.
Swinging seat or hammock, Collapsible. J. A. Spence, Jr. No. 965,488; July 26; Sp. p. 5366; Gaz. vol. 156; p. 919.
Swingletree. W. L. Collins, P. D. and W. K. Sheppard. No. 950,438; Feb. 22; Sp. p. 5601; Gaz. vol. 151; p. 982.
Swingletree. E. Lust. No. 977,459; Dec. 6; Sp. p. 67; Gaz. vol. 161; p. 13.
Swingletree and trace connection. W. A. Stinson. No. 955,613; Apr. 19; Sp. p. 4147; Gaz. vol. 153; p. 722.
Swingletree attachment. G. D. Simmons. No. 959,082; May 24; Sp. p. 5795; Gaz. vol. 154; p. 971.
Swingletree-clip or trace-fastener. B. Whetsell. No. 945,145; Jan. 4; Sp. p. 274; Gaz. vol. 150; p. 48.
Swingletree-hook. J. B. Johnson. No. 954,573; Apr. 12; Sp. p. 1867; Gaz. vol. 153; p. 334.
Swingletree-hook. J. E. Wiese. No. 959,983; May 31; Sp. p. 7711; Gaz. vol. 154; p. 1299.
Swingletree-hook. L. J. Beard. No. 960,784; June 7; Sp. p. 1103; Gaz. vol. 155; p. 185.
Switch: *See* Air-switch; Automatic switch; Automatic time-switch; Block-switch; Call-distributing switch; Centrifugal switch; Charging-switch; Circuit-switch; Circuit-controlled switch; Circuit-disconnecting switch; Door-switch; Duplex two-pole switch; Electric switch; Electric-circuit switch; Electric snap-switch; Electric time-switch; Electrical switch; Electrical time-limit switch; Electrically-actuated switch; Electrically-controlled switch; Electrically-operated switch; Electromagnetic switch; Fire-alarm switch; Frogless switch; Fusible switch; Hanger-board switch; High-potential switch; High-voltage switch; Indicating-switch; Interlocking switch; Knife-switch; Lamp-switch; Lock-switch; Locking-switch; Magnetic switch; Motor-controller switch; Motor-starting switch; Oil-switch; Oil-brake switch; Overhead switch; Pendant-switch; Pilot-switch; Pinless switch; Plug-switch; Potential switch; Power-operated switch; Push-switch; Push-button switch; Rail-switch; Railway-switch; Relay-switch; Reversing-switch; Safety-switch; Safety limit-switch; Selector-switch; Signal-switch; Snap-switch; Spring-switch; Throw-out switch; Time-switch; Tongue-switch; Track-switch; Traction-switch; Tramway-switch; Trolley-switch.
Switch. W. D. Woodward. No. 946,750; Jan. 18; Sp. p. 3879; Gaz. vol. 150; p. 647.
Switch. J. E. Sartor and W. Hitesman. No. 947,459; Jan. 25; Sp. p. 5470; Gaz. vol. 150; p. 914.
Switch. J. G. Arter. No. 947,607; Jan. 25; Sp. p. 5808; Gaz. vol. 150; p. 965.
Switch. F. Homan. No. 959,344; May 24; Sp. p. 6330; Gaz. vol. 154; p. 1058.
Switch. C. W. Burke and J. D. Perkins. No. 965,685; July 26; Sp. p. 5819; Gaz. vol. 156; p. 989.
Switch. H. C. Barcus. No. 971,817; Oct. 4; Sp. p. 636; Gaz. vol. 159; p. 112.
Switch. C. C. Johnson. No. 972,868; Oct. 18; Sp. p. 2959; Gaz. vol. 159; p. 524.
Switch. W. Kaisling. No. 975,529; Nov. 15; Sp. p. 3235; Gaz. vol. 160; p. 551.
Switch. W. Kaisling. No. 975,530; Nov. 15; Sp. p. 3242; Gaz. vol. 160; p. 551.
Switch. H. W. Cheney. No. 976,549; Nov. 22; Sp. p. 5467; Gaz. vol. 160; p. 923.
Switch. A. Gering. No. 980,150; Dec. 27; Sp. p. 5933; Gaz. vol. 161; p. 1013.
Switch-actuating mechanism. P. W. Leen. No. 964,661; July 19; Sp. p. 3558; Gaz. vol. 156; p. 608.
Switch-alarm, Electric. W. F. J. Entrikin. No. 954,176; Apr. 5; Sp. p. 1018; Gaz. vol. 153; p. 173.
Switch and circuit-breaker for high-potential circuits. J. N. Kelman. No. 971,847; Oct. 4; Sp. p. 706; Gaz. vol. 159; p. 124.
Switch and fuse support. W. J. Gibbons. No. 953,782; Apr. 5; Sp. p. 197; Gaz. vol. 153; p. 36.
Switch and fuse supporting base. W. J. Gibbons. No. 965,514; July 26; Sp. p. 5443; Gaz. vol. 156; p. 928.
Switch and lightning-arrester, Combination. S. W. Wood and E. T. Thoma. No. 946,418; Jan. 11; Sp. p. 3183; Gaz. vol. 150; p. 512.
Switch apparatus. W. H. Wheat. No. 957,132; May 3; Sp. p. 1346; Gaz. vol. 154; p. 215.
Switch appliance, Auxiliary automatic safety-. F. W. Snow, A. Gemunder, and W. Michel. No. 965,243; July 26; Sp. p. 4832; Gaz. vol. 156; p. 835.
Switch attachment, Electric-. H. C. Robinson. No. 956,421; Apr. 26; Sp. p. 5916; Gaz. vol. 153; p. 1029.
Switch-bar-adjusting device. J. E. Conley. No. 962,698; June 28; Sp. p. 5209; Gaz. vol. 155; p. 909.
Switch-block. T. E. Murray. No. 956,136; Apr. 26; Sp. p. 5305; Gaz. vol. 153; p. 932.
Switch-box. G. Gut. No. 977,187; Nov. 29; Sp. p. 6888; Gaz. vol. 160; p. 1169.
Switch-box and support, Combined. J. J. Odenwald. No. 963,315; July 5; Sp. p. 705; Gaz. vol. 156; p. 101.
Switch box or casing. J. S. Ziegler and C. T. Woodburn. No. 948,438; Feb. 8; Sp. p. 1381; Gaz. vol. 151; p. 246.
Switch-box structure. A. D. Levy. No. 979,011; Dec. 20; Sp. p. 3440; Gaz. vol. 161; p. 604.
Switch-button, Indicating. J. A. York. No. 972,048; Oct. 4; Sp. p. 1173; Gaz. vol. 159; p. 198.
Switch-chair. S. T. Robinson. No. 961,261; June 14; Sp. p. 2066; Gaz. vol. 155; p. 372.
Switch construction. W. M. Scott. No. 946,157; Jan. 11; Sp. p. 2521; Gaz. vol. 150; p. 420.
Switch construction. H. L. Van Valkenburg. No. 960,450; June 7; Sp. p. 417; Gaz. vol. 155; p. 71.
Switch-controller. D. M. Gunthorpe and E. T. Wade. No. 966,397; Aug. 2; Sp. p. 1138; Gaz. vol. 157; p. 184.
Switch device, Safety. J. A. McCain. No. 956,139; Apr. 26; Sp. p. 5310; Gaz. vol. 153; p. 933.
Switch-frog. H. F. Roach. No. 961,533; June 14; Sp. p. 2669; Gaz. vol. 155; p. 464.
Switch-frog. H. F. Roach. No. 961,534; June 14; Sp. p. 2672; Gaz. vol. 155; p. 465.
Switch-handle. C. E. Anderson. No. 946,309; Jan. 11; Sp. p. 2866; Gaz. vol. 150; p. 475.
Switch handle attachment, Snap-. J. G. Peterson. No. 978,933; Dec. 20; Sp. p. 3245; Gaz. vol. 161; p. 576.
Switch handle, Electric-. J. G. Peterson. No. 954,463; Apr. 12; Sp. p. 1633; Gaz. vol. 153; p. 297.
Switch interlocking mechanism. F. C. Anderson. No. 946,952; Jan. 18; Sp. p. 4356; Gaz. vol. 150; p. 716.
Switch-lever lock. A. A. Strom. No. 953,646; Mar. 29; Sp. p. 6592; Gaz. vol. 152; p. 1177.
Switch-lock. P. F. Augenbraun. No. 962,936; June 28; Sp. p. 5661; Gaz. vol. 155; p. 991.
Switch-lock. A. T. and G. J. Hanson. No. 964,910; July 19; Sp. p. 4173; Gaz. vol. 156; p. 695.
Switch-lock. G. Wuelser. No. 975,918; Nov. 15; Sp. p. 4054; Gaz. vol. 160; p. 683.
Switch-lock. C. McGill and A. R. Higginbotham. No. 978,046; Dec. 6; Sp. p. 1343; Gaz. vol. 161; p. 215.
Switch mechanism. C. D. Wiemer. No. 978,805; Dec. 13; Sp. p. 2978; Gaz. vol. 161; p. 504.
Switch mechanism, Automatic. A. C. Griscom. No. 953,028; Mar. 29; Sp. p. 5254; Gaz. vol. 152; p. 969.
Switch movement. W. Kaisling. No. 959,944; May 31; Sp. p. 7623; Gaz. vol. 154; p. 1286.
Switch-operating apparatus. F. Schad. No. 969,302; Sept. 6; Sp. p. 316; Gaz. vol. 158; p. 52.
Switch-operating means, Electric-. A. W. Bailey. No. 968,520; Aug. 30; Sp. p. 5716; Gaz. vol. 157; p. 1007.
Switch operating means, Rotary-electric-. J. K. Lux. No. 977,810; Dec. 6; Sp. p. 852; Gaz. vol. 161; p. 134.
Switch-operating mechanism. R. V. Cheatham. No. 947,053; Jan. 18; Sp. p. 4545; Gaz. vol. 150; p. 750.
Switch-operating mechanism. G. Flessa. No. 962,562; June 28; Sp. p. 4927; Gaz. vol. 155; p. 863.
Switch-operating mechanism. K. Schmitt, Jr. No. 962,673; June 28; Sp. p. 5142; Gaz. vol. 155; p. 899.
Switch-operating mechanism. E. S. Olmsted. No. 978,053; Dec. 6; Sp. p. 1357; Gaz. vol. 161; p. 218.
Switch-operating mechanism, Electromagnetic. G. W. Donnan. No. 955,391; Apr. 19; Sp. p. 3673; Gaz. vol. 153; p. 645.
Switch-operating mechanisms, Lock for. C. C. Johnson. No. 972,867; Oct. 18; Sp. p. 2957; Gaz. vol. 159; p. 524.
Switch or outlet box. W. A. Bonnell. No. 956,674; May 3; Sp. p. 365; Gaz. vol. 154; p. 60.
Switch-plug. P. C. Ewing. No. 950,281; Feb. 22; Sp. p. 5314; Gaz. vol. 151; p. 931.
Switch-point-adjusting mechanism. F. J. Olander. No. 949,776; Feb. 22; Sp. p. 4172; Gaz. vol. 151; p. 754.
Switch-point-throwing mechanism. S. Lochowicz. No. 962,771; June 28; Sp. p. 5350; Gaz. vol. 155; p. 935.
Switch-points, Retaining device for. W. M. Brown. No. 960,265; June 7; Sp. p. 56; Gaz. vol. 155; p. 12.
Switch receptacle, Electrical-. J. G. Peterson. No. 956,161; Apr. 26; Sp. p. 5359; Gaz. vol. 153; p. 941.
Switch-rod. R. E. Einstein. No. 951,107; Mar. 8; Sp. p. 1308; Gaz. vol. 152; p. 240.
Switch safety mechanism. F. C. Anderson. No. 959,691; May 31; Sp. p. 7052; Gaz. vol. 154; p. 1198.
Switch-signal. T. W. Adams. No. 975,922; Nov. 15; Sp. p. 4061; Gaz. vol. 160; p. 684.
Switch socket and plug, Combined. W. P. McNeel. No. 978,322; Dec. 13; Sp. p. 1962; Gaz. vol. 161; p. 342.
Switch-stand. C. W. Reinoehl and C. W. Long. No. 945,344; Jan. 4; Sp. p. 743; Gaz. vol. 150; p. 114.
Switch-stand. W. F. Traves. No. 950,252; Feb. 22; Sp. p. 5255; Gaz. vol. 151; p. 922.
Switch-stand. E. N. Strom. No. 956,834; May 3; Sp. p. 727; Gaz. vol. 154; p. 115.

Switch-stand. F. E. Place. No. 963,646; July 5; Sp. p. 1371; Gaz. vol. 156; p. 213.
Switch stand and lock. J. W. Torpey. No. 949,098; Feb. 15; Sp. p. 2774; Gaz. vol. 151; p. 493.
Switch-stand, High rotary. J. W. Torpey. No. 952,022; Mar. 15; Sp. p. 3175; Gaz. vol. 152; p. 571.
Switch-stand safety attachment. C. Burke and W. E. Harrington. No. 950,274; Feb. 22; Sp. p. 5301; Gaz. vol. 151; p. 929.
Switch starter, Multiple-. T. E. Barnum. No. 959,910; May 31; Sp. p. 7538; Gaz. vol. 154; p. 1273.
Switch structure. C. N. Glynn. No. 972,104; Oct. 4; Sp. p. 1273; Gaz. vol. 159; p. 216.
Switch-throw. H. M. Cheek. No. 948,206; Feb. 1; Sp. p. 872; Gaz. vol. 151; p. 143.
Switch-thrower, Automatic. E. McNeil. No. 948,427; Feb. 8; Sp. p. 1366; Gaz. vol. 151; p. 243.
Switch throwing and locking device. A. A. Stock. No. 954,548; Apr. 12; Sp. p. 1815; Gaz. vol. 153; p. 326.
Switch throwing and locking device. S. Swann. No. 968,433; Aug. 23; Sp. p. 5520; Gaz. vol. 157; p. 952.
Switch-throwing apparatus. T. Teply. No. 945,251; Jan. 4; Sp. p. 514; Gaz. vol. 150; p. 84.
Switch-throwing device. D. H. Six. No. 964,571; July 19; Sp. p. 3379; Gaz. vol. 156; p. 577.
Switch-throwing device. P. H. Petersen. No. 969,653; Sept. 6; Sp. p. 1069; Gaz. vol. 158; p. 171.
Switch-throwing device, Automatic. C. J. G. Rickerson. No. 959,884; May 31; Sp. p. 7480; Gaz. vol. 154; p. 1264.
Switch-throwing mechanism. H. Shemwell. No. 945,621; Jan. 4; Sp. p. 1308; Gaz. vol. 150; p. 205.
Switch-throwing mechanism. J. R. Ritter. No. 947,126; Jan. 18; Sp. p. 4680; Gaz. vol. 150; p. 773.
Switch-throwing mechanism. H. Schaeffer. No. 967,981; Aug. 23; Sp. p. 4543; Gaz. vol. 157; p. 797.
Switch time-limit device, Electric-. G. A. Burnham. No. 979,256; Dec. 20; Sp. p. 4011; Gaz. vol. 161; p. 690.
Switches, Control of electrically-operated. H. E. White. No. 969,584; Sept. 6; Sp. p. 929; Gaz. vol. 158; p. 148.
Switches, Control of electrically-operated. H. E. White and E. R. Carichoff. No. 969,585; Sept. 6; Sp. p. 938; Gaz. vol. 158; p. 148.
Switches, Control of electrically-operated. H. E. White. No. 969,738; Sept. 6; Sp. p. 1248; Gaz. vol. 158; p. 201.
Switches, Means for operating end-cell. J. W. Achard. No. 955,448; Apr. 19; Sp. p. 3780; Gaz. vol. 153; p. 664.
Switches, Visual indicator for key-operated. J. J. Wesley. No. 975,490; Nov. 15; Sp. p. 3144; Gaz. vol. 160; p. 537.
Switching apparatus, Electric. S. T. Hutton. No. 969,480; Sept. 6; Sp. p. 691; Gaz. vol. 158; p. 109.
Switching device. O. M. Leich and N. Pedersen. No. 956,377; Apr. 26; Sp. p. 5838; Gaz. vol. 153; p. 1014.
Switching device, Electric. C. Aalborg. No. 963,735; July 12; Sp. p. 1575; Gaz. vol. 156; p. 265.
Switching device, Electric. F. W. Harris. No. 975,418; Nov. 15; Sp. p. 2998; Gaz. vol. 160; p. 511.
Switching device, Electrical. J. G. Meredith. No. 969,646; Sept. 6; Sp. p. 1051; Gaz. vol. 158; p. 169.
Switching device, Fluid-pressure-controlled. C. Aalborg. No. 974,328; Nov. 1; Sp. p. 577; Gaz. vol. 160; p. 84.
Switching-key. L. A. Williams. No. 958,453; May 17; Sp. p. 4475; Gaz. vol. 154; p. 732.
Switching system. O. T. Lademan. No. 979,676; Dec. 27; Sp. p. 4875; Gaz. vol. 161; p. 854.
Switchboard construction. T. A. Hammond. No. 955,263; Apr. 19; Sp. p. 3383; Gaz. vol. 153; p. 603.
Switchboard construction. W. M. Scott. No. 962,473; June 28; Sp. p. 4717; Gaz. vol. 155; p. 831.
Switchboard, Electric. W. M. Hyman. No. 953,466; Mar. 29; Sp. p. 6214; Gaz. vol. 152; p. 1115.
Switchboard jack and plug. A. Larsson. No. 950,107; Feb. 22; Sp. p. 4946; Gaz. vol. 151; p. 870.
Swivel-socket. J. E. Prosser. No. 975,067; Nov. 8; Sp. p. 2241; Gaz. vol. 160; p. 365.
Synchronizer, Automatic. P. MacGahan. No. 968,579; Aug. 30; Sp. p. 5841; Gaz. vol. 157; p. 1030.
Synchronizing and telephone system, Combined. G. Hoglund. No. 960,925; June 7; Sp. p. 1365; Gaz. vol. 155; p. 230.
Synchronizing apparatus. G. P. McDonnell. No. 945,976; Jan. 11; Sp. p. 2159; Gaz. vol. 150; p. 359.
Synchronous machine. L. A. Hawkins. No. 952,113; Mar. 15; Sp. p. 3343; Gaz. vol. 152; p. 602.
Syringe. T. R. McNerthney. No. 946,256; Jan. 11; Sp. p. 2741; Gaz. vol. 150; p. 456.
Syringe. J. W. Wainwright. No. 951,160; Mar. 8; Sp. p. 1410; Gaz. vol. 152; p. 256.
Syringe. P. J. McElroy. No. 962,657; June 28; Sp. p. 5117; Gaz. vol. 155; p. 894.
Syringe. J. H. L. Eager. No. 964,769; July 19; Sp. p. 3890; Gaz. vol. 156; p. 646.
Syringe. J. L. Fisher. No. 964,903; July 19; Sp. p. 4161; Gaz. vol. 156; p. 693.
Syringe. J. B. Huppert. No. 967,125; Aug. 9; Sp. p. 2792; Gaz. vol. 157; p. 458.
Syringe. J. Kussart. No. 972,201; Oct. 11; Sp. p. 1504; Gaz. vol. 159; p. 267.
Syringe. F. Schwarz and H. Tauss. No. 974,531; Nov. 1; Sp. p. 1049; Gaz. vol. 160; p. 157.
Syringe. J. R. Burdick, R. T. Fulton, and B. F. Williams. No. 978,985; Dec. 20; Sp. p. 3382; Gaz. vol. 161; p. 595.
Syringe and cartridge therefor, Hypodermic. A. Roesch. No. 978,488; Dec. 13; Sp. p. 2317; Gaz. vol. 161; p. 399.
Syringe, Bidet-. M. E. Reichelt. No. 946,648; Jan. 18; Sp. p. 3658; Gaz. vol. 150; p. 613.
Syringe case, Hypodermic-. S. S. S. Campbell. No. 945,118; Jan. 4; Sp. p. 228; Gaz. vol. 150; p. 39.
Syringe, Double-acting. P. G. MacGregor. No. 954,398; Apr. 5; Sp. p. 1482; Gaz. vol. 153; p. 246.
Syringe, Faucet-. C. F. Ackerman. No. 964,730; July 19; Sp. p. 3804; Gaz. vol. 156; p. 632.
Syringe, Hypodermic. A. A. Allinger. No. 964,950; July 19; Sp. p. 4241; Gaz. vol. 156; p. 709.
Syringe, Hypodermic. J. E. Lee. No. 967,136; Aug. 9; Sp. p. 2811; Gaz. vol. 157; p. 461.
Syringe, Portable fountain-. A. L. Dawson. No. 962,999; June 28; Sp. p. 5781; Gaz. vol. 155; p. 1012.
Syringe, Surgical. A. Heilmann and B. Tauss. No. 977,952; Dec. 6; Sp. p. 1145; Gaz. vol. 161; p. 184.
Syringe, Vaginal. O. Katzenberger. No. 949,539; Feb. 15; Sp. p. 3693; Gaz. vol. 151; p. 642.
Syringe, Vaginal. I. L. Stevens. No. 963,482; July 5; Sp. p. 1038; Gaz. vol. 156; p. 158.
Syringe, Vaginal. F. A. Neveu. No. 973,456; Oct. 18; Sp. p. 4277; Gaz. vol. 159; p. 728.
Syringe, Vaginal irrigating-. H. W. Champlin. No. 962,313; June 21; Sp. p. 4354; Gaz. vol. 155; p. 752.
Syringes, Support for nozzles of fountain-. N. L. Rigby. No. 960,404; June 7; Sp. p. 340; Gaz. vol. 155; p. 57.
Syrup-dispensing mechanism. L. A. Becker. No. 963,268; July 5; Sp. p. 614; Gaz. vol. 156; p. 86.
Table: *See* Automobile turn-table; Billiard-table; Cabinet-table; Collapsible table; Concentrating-table; Cutting-table; Dental bracket-table; Draftsman's table; Drawing-table; Drill-press table; Extensible table; Extension-table; Foldable table; Folding table; Fruit-packer's table; Gage-table; Game-table; Garment-worker's table; Individual table; Ironing-table; Knockdown table; Leather-working-machine table; Marine table; Military field-table; Operating-table; Optical table; Physician's table; Pool-table; Pool and billiard table; Portable table; Revolving table; Saw-table; Self-leveling table; Self-waiting table; Serving-table; Sewing-table; Sewing-machine table; Ship-table; Sorting-table; Spacing-table; Surgical table; Toilet and dressing table; Turn-table; Work-table.
Table. O. Holmes. No. 946,363; Jan. 11; Sp. p. 2965; Gaz. vol. 150; p. 492.
Table. N. T. Ackerly. No. 946,951; Jan. 18; Sp. p. 4355; Gaz. vol. 150; p. 716.
Table. J. Wallin. No. 947,982; Feb. 1; Sp. p. 427; Gaz. vol. 151; p. 68.
Table. J. B. Baum. No. 950,739; Mar. 1; Sp. p. 602; Gaz. vol. 152; p. 95.
Table. W. T. Baugh. No. 952,408; Mar. 15; Sp. p. 3917; Gaz. vol. 152; p. 701.
Table. E. C. R. Ellsworth. No. 953,823; Apr. 5; Sp. p. 285; Gaz. vol. 153; p. 50.
Table. J. Pfrenzinger. No. 957,089; May 3; Sp. p. 1270; Gaz. vol. 154; p. 201.
Table. H. J. Guttman. No. 960,314; June 7; Sp. p. 149; Gaz. vol. 155; p. 28.
Table. P. C. Nihil. No. 962,659; June 28; Sp. p. 5119; Gaz. vol. 155; p. 894.
Table. G. Schryver. No. 962,922; June 28; Sp. p. 5636; Gaz. vol. 155; p. 987.
Table. W. Pelishek. No. 969,901; Sept. 13; Sp. p. 1639; Gaz. vol. 158; p. 282.
Table. J. Morris. No. 970,637; Sept. 20; Sp. p. 3214; Gaz. vol. 158; p. 553.
Table. I. Weingaertner. No. 976,759; Nov. 22; Sp. p. 5889; Gaz. vol. 160; p. 994.
Table and chair, Combined. A. A. Trepel. No. 950,253; Feb. 22; Sp. p. 5256; Gaz. vol. 151; p. 922.
Table and chair, Combined. D. E. Ballam. No. 956,024; Apr. 26; Sp. p. 5048; Gaz. vol. 153; p. 893.
Table and tray-stand, Combined. A. W. Whitney. No. 967,695; Aug. 16; Sp. p. 3941; Gaz. vol. 157; p. 677.
Table attachment for furniture. A. Hoffman. No. 956,095; Apr. 26; Sp. p. 5218; Gaz. vol. 153; p. 918.
Table attachment, Wilfley-. W. F. Smith. No. 975,648; Nov. 15; Sp. p. 3488; Gaz. vol. 160; p. 592.
Table-base, Folding. J. Karbinger. No. 965,194; July 26; Sp. p. 4731; Gaz. vol. 156; p. 819.
Table-bed, Convertible. J. H. McClure. No. 952,209; Mar. 15; Sp. p. 3520; Gaz. vol. 152; p. 633.
Table-clamp. W. E. Clark. No. 974,026; Oct. 25; Sp. p. 5481; Gaz. vol. 159; p. 950.
Table-edge-sanding machine. E. Tyden. No. 960,447; June 7; Sp. p. 413; Gaz. vol. 155; p. 70.
Table extension-top, Knockdown-. F. B. Walter. No. 963,190; July 5; Sp. p. 412; Gaz. vol. 156; p. 59.
Table having hinged leaf. A. Hendricks. No. 948,729; Feb. 8; Sp. p. 2013; Gaz. vol. 151; p. 345.
Table implement. H. J. Richardson. No. 972,777; Oct. 11; Sp. p. 2742; Gaz. vol. 159; p. 466.
Table-leg-locking device. C. C. Hastings. No. 963,439; July 5; Sp. p. 958; Gaz. vol. 156; p. 143.
Table-legs, Socket for removable. A. Zdzieblowski. No. 952,090; Mar. 15; Sp. p. 3294; Gaz. vol. 152; p. 594.
Table-leveler. F. K. Sheppard. No. 948,708; Feb. 8; Sp. p. 1966; Gaz. vol. 151; p. 337.

Alphabetical list of inventions—Continued.

Table-leveler. J. F. Swift. No. 972,287; Oct. 11; Sp. p. 1694; Gaz. vol. 159; p. 298.
Table lock, Pedestal-. A. Carlson. No. 947,278; Jan. 25; Sp. p. 5044; Gaz. vol. 150; p. 853.
Table lock, Pool and billiard. J. M. Stivers. No. 964,581; July 19; Sp. p. 3401; Gaz. vol. 156; p. 581.
Table-pad. G. J. Veach. No. 970,861; Sept. 20; Sp. p. 3699; Gaz. vol. 158; p. 632.
Table-slide. C. Bremaker and H. D. Eggers. No. 967,603; Aug. 16; Sp. p. 3769; Gaz. vol. 157; p. 647.
Table-slide. J. E. Gaut. No. 978,730; Dec. 13; Sp. p. 2847; Gaz. vol. 161; p. 482.
Tables, Extension-shelf for writing-. J. F. Bebb. No. 974,340; Nov. 1; Sp. p. 600; Gaz. vol. 160; p. 90.
Tablet-arm chair. A. A. Lytle. No. 955,523; Apr. 19; Sp. p. 3939; Gaz. vol. 153; p. 691.
Tablet-holder, Physician's. H. C. Beardsley. No. 977,583; Dec. 6; Sp. p. 391; Gaz. vol. 161; p. 56.
Tablet holder, Table duplicating-. R. W. Talley. No. 966,486; Aug. 9; Sp. p. 1369; Gaz. vol. 157; p. 242.
Tablet-machine. A. M. Hance. No. 960,902; June 7; Sp. p. 1335; Gaz. vol. 155; p. 223.
Tablet, Mouth-. A. Westlake. No. 975,814; Nov. 15; Sp. p. 3837; Gaz. vol. 160; p. 647.
Tablet, Sound-record. J. Sanders. No. 956,904; May 3; Sp. p. 882; Gaz. vol. 154; p. 140.
Tablet, Writing-. R. C. Kuhn. No. 958,507; May 17; Sp. p. 4574; Gaz. vol. 154; p. 751.
Tablet, Writing-. T. Hussey. No. 964,424; July 12; Sp. p. 3000; Gaz. vol. 156; p. 495.
Tablets, Making sound-record. J. Sanders. No. 956,905; May 3; Sp. p. 888; Gaz. vol. 154; p. 140.
Tablets, Matrices and blanks for making. L. Bowman. No. 973,851; Oct. 25; Sp. p. 5112; Gaz. vol. 159; p. 888.
Taboret-bath. S. Montgomery. No. 955,603; Apr. 19; Sp. p. 4127; Gaz. vol. 153; p. 718.
Tabulating and check-indorsing apparatus, Combined. J. H. Whitelaw. No. 964,723; July 19; Sp. p. 3790; Gaz. vol. 156; p. 630.
Tabulating and indorsing apparatus, Combined. J. H. Whitelaw. No. 964,724; July 19; Sp. p. 3793; Gaz. vol. 156; p. 630.
Tabulating systems, Registering apparatus for. H. Hollerith. No. 945,236; Jan. 4; Sp. p. 473; Gaz. vol. 150; p. 79.
Tachometer and odometer. N. M. Hopkins. No. 949,746; Feb. 15; Sp. p. 4096; Gaz. vol. 151; p. 710.
Tachometer, Magnetic. J. K. Stewart. No. 956,221; Apr. 26; Sp. p. 5510; Gaz. vol. 153; p. 961.
Tachometer, Resonance-. R. Hartmann-Kempf. No. 959,934; May 31; Sp. p. 7595; Gaz. vol. 154; p. 1282.
Tack forming and driving die. L. B. Girard. No. 953,416; Mar. 29; Sp. p. 6111; Gaz. vol. 152; p. 1098.
Tack-loader. J. J. Doidge. No. 975,840; Nov. 15; Sp. p. 3882; Gaz. vol. 160; p. 655.
Tack-pounder. W. C. Stewart. No. 958,035; May 17; Sp. p. 3403; Gaz. vol. 154; p. 586.
Tack-pulling machine. A. Eppler. No. 960,294; June 7; Sp. p. 106; Gaz. vol. 155; p. 21.
Tack-pulling machine. A. Eppler. No. 968,755; Aug. 30; Sp. p. 6240; Gaz. vol. 157; p. 1091.
Tacker, Automatic hand-. J. Gelzenlichter. No. 957,946; May 17; Sp. p. 3081; Gaz. vol. 154; p. 552.
Tacker, Portable power-. M. D. Phelan. No. 958,002; May 17; Sp. p. 3273; Gaz. vol. 154; p. 573.
Tackers, Loading mechanism for hand-. P. R. Glass. No. 957,948; May 17; Sp. p. 3090; Gaz. vol. 154; p. 553.
Tackle-block. W. H. Stam. No. 968,811; Aug. 30; Sp. p. 6355; Gaz. vol. 157; p. 1108.
Tag. D. P. Moore. No. 950,453; Feb. 22; Sp. p. 5622; Gaz. vol. 151; p. 986.
Tag. B. F. Gardner. No. 958,620; May 17; Sp. p. 4794; Gaz. vol. 154; p. 788.
Tag. F. H. Thompson. No. 971,804; Oct. 4; Sp. p. 608; Gaz. vol. 159; p. 107.
Tag. J. Praetz. No. 973,300; Oct. 18; Sp. p. 3939; Gaz. vol. 159; p. 674.
Tag and invoice-holder, Combined shipping-. J. D. Fugate. No. 977,445; Dec. 6; Sp. p. 37; Gaz. vol. 161; p. 9.
Tag-attaching apparatus. I. Silverstein. No. 960,206; May 31; Sp. p. 8175; Gaz. vol. 154; p. 1376.
Tag-fastener. C. M. Thalimer. No. 947,286; Jan. 25; Sp. p. 5059; Gaz. vol. 150; p. 855.
Tag-fastener. J. C. Harris. No. 949,570; Feb. 15; Sp. p. 3755; Gaz. vol. 151; p. 653.
Tag forming and affixing machine. D. P. Moore. No. 973,377; Oct. 18; Sp. p. 4116; Gaz. vol. 159; p. 702.
Tag forming and affixing machines, Cutting mechanism for. D. P. Moore. No. 947,202; Jan. 18; Sp. p. 4833; Gaz. vol. 150; p. 797.
Tag forming and affixing machines, Tape-feeding mechanism for. D. P. Moore. No. 948,944; Feb. 8; Sp. p. 2441; Gaz. vol. 151; p. 415.
Tag forming and attaching machine. E. H. Michener. No. 973,369; Oct. 18; Sp. p. 4095; Gaz. vol. 159; p. 699.
Tag-holder. W. H. Hollis. No. 963,765; July 12; Sp. p. 1629; Gaz. vol. 156; p. 275.
Tag holder, License-. J. J. Thompson. No. 961,267; June 14; Sp. p. 2080; Gaz. vol. 155; p. 374.
Tag, Identifying-. A. A. Thurlby. No. 960,442; June 7; Sp. p. 406; Gaz. vol. 155; p. 68.
Tag-machine. H. L. Roth. No. 971,927; Oct. 4; Sp. p. 892; Gaz. vol. 159; p. 154.
Tag-making machine. C. von Philp. No. 965,323; July 26; Sp. p. 5016; Gaz. vol. 156; p. 863.
Tag, Seal price-. H. V. Shaw. No. 949,201; Feb. 15; Sp. p. 2979; Gaz. vol. 151; p. 528.
Tag-setting machine. C. F. Smith. No. 979,217; Dec. 20; Sp. p. 3920; Gaz. vol. 161; p. 677.
Tag, Shipping-. G. Richberger. No. 969,658; Sept. 6; Sp. p. 1079; Gaz. vol. 158; p. 173.
Tag-stringer machine. H. L. Roth. No. 971,928; Oct. 4; Sp. p. 903; Gaz. vol. 159; p. 155.
Tags, Machine for cording shipping- I. L. Hammond. No. 950,667; Mar. 1; Sp. p. 438; Gaz. vol. 152; p. 71.
Tagging-machine. F. W. Hall. No. 957,420; May 10; Sp. p. 1992; Gaz. vol. 154; p. 344.
Tagging machine, Laundry-. E. W. Rice. No. 970,952; Sept. 20; Sp. p. 3863; Gaz. vol. 158; p. 660.
Tail-stock. W. A. Greaves. No. 956,804; May 3; Sp. p. 653; Gaz. vol. 154; p. 104.
Tailor's appliance. A. T. Rowe. No. 946,072; Jan. 11; Sp. p. 2356; Gaz. vol. 150; p. 391.
Tailor's fitting apparatus. J. Augsten. No. 946,191; Jan. 11; Sp. p. 2601; Gaz. vol. 150; p. 432.
Tailor's level. A. Erickson. No. 957,150; May 3; Sp. p. 1378; Gaz. vol. 154; p. 221.
Talking-machine. E. R. Johnson. (Reissue.) No. 13,069; Jan. 4; Sp. p. 1591; Gaz. vol. 150; p. 246.
Talking-machine. E. R. Johnson. No. 946,442; Jan. 11; Sp. p. 3231; Gaz. vol. 150; p. 519.
Talking-machine. J. B. Browning. No. 948,040; Feb. 1; Sp. p. 544; Gaz. vol. 151; p. 87.
Talking-machine. J. H. Mount. No. 949,939; Feb. 22; Sp. p. 4549; Gaz. vol. 151; p. 812.
Talking-machine. C. Vogt. No. 951,158; Mar. 8; Sp. p. 1405; Gaz. vol. 152; p. 255.
Talking-machine. H. Sheble and T. Kraemer. No. 957,004; May 3; Sp. p. 1097; Gaz. vol. 154; p. 172.
Talking-machine. R. L. Gibson. No. 957,206; May 10; Sp. p. 1529; Gaz. vol. 154; p. 270.
Talking-machine. T. Kraemer. No. 960,560; June 7; Sp. p. 663; Gaz. vol. 155; p. 109.
Talking-machine. J. Jetter. No. 960,645; June 7; Sp. p. 831; Gaz. vol. 155; p. 136.
Talking-machine. T. Kraemer. No. 968,483; Aug. 23; Sp. p. 5613; Gaz. vol. 157; p. 969.
Talking-machine. M. O. Arnold. No. 969,239; Sept. 6; Sp. p. 199; Gaz. vol. 158; p. 32.
Talking-machine. A. Jaccard. No. 978,891; Dec. 20; Sp. p. 3154; Gaz. vol. 161; p. 560.
Talking-machine and piano recording device. W. M. Davis. No. 958,730; May 24; Sp. p. 5015; Gaz. vol. 154; p. 849.
Talking-machine attachment. W. S. McNamara. No. 954,455; Apr. 12; Sp. p. 1609; Gaz. vol. 153; p. 294.
Talking-machine attachment. W. A. Chapman. No. 963,515; July 5; Sp. p. 1106; Gaz. vol. 156; p. 168.
Talking-machine brake, Disk-. W. Zeysing. No. 959,682; May 31; Sp. p. 7041; Gaz. vol. 154; p. 1195.
Talking-machine diaphragm. F. Kane. No. 960,021; May 31; Sp. p. 7815; Gaz. vol. 154; p. 1313.
Talking-machine diaphragm. W. W. Young. No. 973,735; Oct. 25; Sp. p. 4879; Gaz. vol. 159; p. 848.
Talking-machine diaphragms, Making. W. W. Young. No. 975,668; Nov. 15; Sp. p. 3559; Gaz. vol. 160; p. 598.
Talking-machine horn and bracket therefor. F. Kane. No. 975,362; Nov. 8; Sp. p. 2879; Gaz. vol. 160; p. 465.
Talking-machine mechanism. C. Lindström. No. 959,238; May 24; Sp. p. 6119; Gaz. vol. 154; p. 1022.
Talking-machine records, Case for holding. H. C. Brown. No. 956,516; May 3; Sp. p. 18; Gaz. vol. 154; p. 6.
Talking-machine records, Duplicating. T. A. Edison. No. 975,339; Nov. 8; Sp. p. 2840; Gaz. vol. 160; p. 458.
Talking-machine sound-box. L. P. Valiquet. No. 946,589; Jan. 18; Sp. p. 3528; Gaz. vol. 150; p. 594.
Talking-machine sound-box. L. P. Valiquet. No. 947,534; Jan. 25; Sp. p. 5656; Gaz. vol. 150; p. 940.
Talking-machine sound-box. E. R. Johnson. No. 951,127; Mar. 8; Sp. p. 1345; Gaz. vol. 152; p. 245.
Talking-machine sound-box. R. L. Gibson. No. 954,953; Apr. 12; Sp. p. 2753; Gaz. vol. 153; p. 460.
Talking-machine sound-box. E. H. Mobley. No. 955,894; Apr. 26; Sp. p. 4793; Gaz. vol. 153; p. 848.
Talking-machine sound-box. P. J. Packman. No. 960,191; May 31; Sp. p. 8149; Gaz. vol. 154; p. 1370.
Talking-machine sound-box. L. T. Haile. No. 963,546; July 5; Sp. p. 1169; Gaz. vol. 156; p. 179.
Talking-machine sound-box. J. Veit. No. 979,231; Dec. 20; Sp. p. 3951; Gaz. vol. 161; p. 682.
Talking-machine sound-modifier. E. P. Shepard. No. 953,557; Mar. 29; Sp. p. 6405; Gaz. vol. 152; p. 1147.
Talking-machine sound-record. J. W. Owen. No. 964,685; July 19; Sp. p. 3708; Gaz. vol. 156; p. 617.
Talking-machine sound-reproducing device. L. Griffith. No. 971,442; Sept. 27; Sp. p. 4845; Gaz. vol. 158; p. 848.
Talking-machines, Sound-conveying tube for. R. A. Boswell. No. 951,998; Mar. 15; Sp. p. 3128; Gaz. vol. 152; p. 564.
Talking-machines, Supporting device for sound-box arms and horns of. R. L. Gibson. No. 958,109; May 17; Sp. p. 3626; Gaz. vol. 154; p. 611.

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Talking-machines, Valve for the sound-boxes of. C. K. Simpson. No. 946,524; Jan. 11; Sp. p. 3420; Gaz. vol. 150; p. 548.
Tally. M. Taylor. No. 977,686; Dec. 6; Sp. p. 602; Gaz. vol. 161; p. 92.
Tally-board. H. R. Patriarche. No. 949,379; Feb. 15; Sp. p. 3372; Gaz. vol. 151; p. 589.
Tamping-bar. J. A. Moore. No. 964,671; July 19; Sp. p. 3578; Gaz. vol. 156; p. 612.
Tamping device. G. A. Anderson. No. 966,292; Aug. 2; Sp. p. 949; Gaz. vol. 157; p. 151.
Tamping-machine. H. D. Morgan and H. Schoby. No. 972,563; Oct. 11; Sp. p. 2287; Gaz. vol. 159; p. 394.
Tamping mechanism. G. W. Pritchett. No. 968,410; Aug. 23; Sp. p. 5478; Gaz. vol. 157; p. 943.
Tampon. L. G. Langstaff. No. 969,640; Sept. 6; Sp. p. 1041; Gaz. vol. 158; p. 167.
Tandem-spring and friction draft-rigging. J. F. O'Connor. No. 966,234; Aug. 2; Sp. p. 841; Gaz. vol. 157; p. 133.
Tang. W. Cronk. No. 972,753; Oct. 11; Sp. p. 2700; Gaz. vol. 159; p. 459.
Tank: *See* Air-spraying tank; Antifreezing tank; Concrete tank; Developing-tank; Dust-separating tank; Electroplating-tank; Flush-tank; Flushing-tank; Garbage-tank; Gas-tank; Glass-tank; Incubator heating-tank; Iron tank; Liquid-fuel tank; Milk-carrying tank; Oil-tank; Rendering-tank; Sap-gathering tank; Surge-tank; Water-tank; Water-closet, &c., tank.
Tank. C. E. Rogers. No. 947,130; Jan. 18; Sp. p. 4687; Gaz. vol. 150; p. 774.
Tank. D. F. Whitmore. No. 953,500; Mar. 29; Sp. p. 6291; Gaz. vol. 152; p. 1128.
Tank. J. O. Bewan. No. 954,916; Apr. 12; Sp. p. 2692; Gaz. vol. 153; p. 455.
Tank and support. O. K. Harry. No. 965,455; July 26; Sp. p. 5308; Gaz. vol. 156; p. 907.
Tank attachment, Storage and refrigerating. W. Griesser. No. 948,219; Feb. 1; Sp. p. 898; Gaz. vol. 151; p. 147.
Tank-closure. B. A. Lake. No. 971,450; Sept. 27; Sp. p. 4861; Gaz. vol. 158; p. 852.
Tank-cover. A. A. Kramer. No. 968,061; Aug. 23; Sp. p. 4723; Gaz. vol. 157; p. 824.
Tank-emptying apparatus. S. F. Miller. No. 967,539; Aug. 16; Sp. p. 3639; Gaz. vol. 157; p. 626.
Tank filling and discharging means, Flush-. T. Correjolles and J. F. Davis. No. 952,101; Mar. 15; Sp. p. 3318; Gaz. vol. 152; p. 597.
Tank-heater. W. Tinker. No. 950,418; Feb. 22; Sp. p. 5564; Gaz. vol. 151; p. 975.
Tank-heater. H. Scott and R. M. Boyer. No. 951,428; Mar. 8; Sp. p. 1967; Gaz. vol. 152; p. 342.
Tank-heater. E. B. Wills. No. 966,147; Aug. 2; Sp. p. 627; Gaz. vol. 157; p. 103.
Tank-heater cover. H. G. Miller. No. 962,449; June 28; Sp. p. 4666; Gaz. vol. 155; p. 823.
Tank heater, Stock-watering-. O. Hebert. No. 974,060; Oct. 25; Sp. p. 5540; Gaz. vol. 159; p. 961.
Tank heater, Watering-. C. W. Blackburn. No. 950,066; Feb. 22; Sp. p. 4866; Gaz. vol. 151; p. 856.
Tank-indicator. J. R. Smith. No. 956,907; May 3; Sp. p. 894; Gaz. vol. 154; p. 141.
Tank-operating device, Flush-. W. G. Newton. No. 977,122; Nov. 29; Sp. p. 6735; Gaz. vol. 160; p. 1146.
Tank or container. A. Judevine. No. 965,634; July 26; Sp. p. 5716; Gaz. vol. 156; p. 972.
Tanks, Constructing bent-wood. D. F. Whitmore. No. 963,491; July 5; Sp. p. 1054; Gaz. vol. 156; p. 160.
Tanks, Discharge mechanism for vacuum-. W. H. Eggert. No. 960,857; June 7; Sp. p. 1245; Gaz. vol. 155; p. 208.
Tanks, Liquid-gage for pressure-. A. Verhoeven. No. 954,550; Apr. 12; Sp. p. 1818; Gaz. vol. 153; p. 326.
Tanks, Manufacture of wall-. R. E. Crane. No. 958,231; May 17; Sp. p. 3869; Gaz. vol. 154; p. 653.
Tanks, Non-freezing connection for. C. H. Miller and W. A. Bunnell. No. 973,450; Oct. 18; Sp. p. 4263; Gaz. vol. 159; p. 726.
Tanks, Pneumatic pressure apparatus for water-. R. B. Carter and J. L. Maull. No. 957,304; May 10; Sp. p. 1749; Gaz. vol. 154; p. 306.
Tanks, Water-supply for flush-. H. J. Geurink. No. 955,457; Apr. 19; Sp. p. 3800; Gaz. vol. 153; p. 667.
Tannic infusions of plants, Electrolytically treating. H. Damköhler and H. Schwindt. No. 975,835; Nov. 15; Sp. p. 3869; Gaz. vol. 160; p. 653.
Tanniferous material for extraction, Preparing. H. Mechlenburg. No. 979,080; Dec. 20; Sp. p. 3591; Gaz. vol. 161; p. 626.
Tanning. F. Van Voorhis. No. 947,169; Jan. 18; Sp. p. 4765; Gaz. vol. 150; p. 786.
Tanning. J. M. Brown. No. 947,433; Jan. 25; Sp. p. 5407; Gaz. vol. 150; p. 906.
Tanning apparatus. J. B. Koogler. No. 957,350; May 10; Sp. p. 1849; Gaz. vol. 154; p. 321.
Tanning compound. J. M. Dill. No. 972,518; Oct. 11; Sp. p. 2192; Gaz. vol. 159; p. 378.
Tanning-machine, Automatic. C. J. Glasel. (Reissue.) No. 13,116; May 17; Sp. p. 4976; Gaz. vol. 154; p. 818.
Tanning machinery. G. C. Vogel and C. P. Bossert. No. 945,878; Jan. 11; Sp. p. 1944; Gaz. vol. 150; p. 324.
Tantalum, Case-hardening. O. A. Simpson. No. 974,835; Nov. 8; Sp. p. 1699; Gaz. vol. 160; p. 286.
Tantalum, Producing. J. Schilling. No. 958,180; May 17; Sp. p. 3771; Gaz. vol. 154; p. 637.
Tantalum, Purifying. E. Weintraub. No. 947,983; Feb. 1; Sp. p. 429; Gaz. vol. 151; p. 68.
Tap. W. Goodwin. No. 945,517; Jan. 4; Sp. p. 1103; Gaz. vol. 150; p. 170.
Tap, Adjustable. A. B. Carll. No. 978,005; Dec. 6; Sp. p. 1257; Gaz. vol. 161; p. 201.
Tap, Beer-. J. Quigley and O. N. Beck. No. 963,323; July 5; Sp. p. 725; Gaz. vol. 156; p. 104.
Tap-holder, Safety. L. J. Cudahy. No. 956,298; Apr. 26; Sp. p. 5675; Gaz. vol. 153; p. 988.
Tap or valve, Ball. A. F. Morrison. No. 954,040; Apr. 5; Sp. p. 718; Gaz. vol. 153; p. 126.
Tap, Pressure-. C. L. Ferman. No. 969,355; Sept. 6; Sp. p. 432; Gaz. vol. 158; p. 69.
Tap-screw for plugging leaks. E. A. Gehrke. No. 951,437; Mar. 8; Sp. p. 1984; Gaz. vol. 152; p. 345.
Tap-wrench. F. O. Wells. No. 965,970; Aug. 2; Sp. p. 256; Gaz. vol. 157; p. 43.
Tap-wrench. C. E. Williams. No. 977,691; Dec. 6; Sp. p. 616; Gaz. vol. 161; p. 94.
Tapper, Beer-. W. W. Frisholm. No. 948,647; Feb. 8; Sp. p. 1839; Gaz. vol. 151; p. 316.
Tapping apparatus. G. W. Spencer. No. 965,762; July 26; Sp. p. 5973; Gaz. vol. 156; p. 1015.
Tapping attachment. J. B. Dade. No. 978,855; Dec. 20; Sp. p. 3076; Gaz. vol. 161; p. 547.
Tapping device, Barrel-. A. M. Stock. No. 961,739; June 14; Sp. p. 3090; Gaz. vol. 155; p. 534.
Tapping-machine nut-feed. O. A. Smith. No. 975,728; Nov. 15; Sp. p. 3658; Gaz. vol. 160; p. 617.
Tapping or drilling attachment. V. J. Wahlstrom. No. 968,718; Aug. 30; Sp. p. 6165; Gaz. vol. 157; p. 1077.
Tape-applying machine. M. B. Diskin. No. 948,575; Feb. 8; Sp. p. 1677; Gaz. vol. 151; p. 292.
Tape for tennis-courts and the like. R. Moore. No. 951,484; Mar. 8; Sp. p. 2089; Gaz. vol. 152; p. 362.
Taper and making same, Seamless plated. R. G. Schutz. No. 962,985; June 28; Sp. p. 5753; Gaz. vol. 155; p. 1007.
Taper attachments, Mechanism for adjusting cross-slides for. B. M. W. Hanson. No. 968,050; Aug. 23; Sp. p. 4695; Gaz. vol. 157; p. 820.
Tapers in metal, Producing. L. S. Lachman. No. 953,041; Mar. 29; Sp. p. 5280; Gaz. vol. 152; p. 972.
Tar-displacement system. E. F. Lloyd. No. 956,586; May 3; Sp. p. 171; Gaz. vol. 154; p. 29.
Target. W. H. Green. No. 950,101; Feb. 22; Sp. p. 4934; Gaz. vol. 151; p. 868.
Target. J. J. Metzger. No. 951,377; Mar. 8; Sp. p. 1866; Gaz. vol. 152; p. 325.
Target. H. C. Lord. No. 960,359; June 7; Sp. p. 253; Gaz. vol. 155; p. 42.
Target. O. Horsrud. No. 969,477; Sept. 6; Sp. p. 684; Gaz. vol. 158; p. 108.
Target. J. P. Newbold. No. 975,711; Nov. 15; Sp. p. 3633; Gaz. vol. 160; p. 611.
Target, Field-firing or surprise. R. T. Gates. No. 945,512; Jan. 4; Sp. p. 1095; Gaz. vol. 150; p. 169.
Target, Field-firing or surprise. R. T. Gates. No. 960,892; June 7; Sp. p. 1313; Gaz. vol. 155; p. 220.
Target-finder. H. J. Hegwer. No. 966,332; Aug. 2; Sp. p. 1011; Gaz. vol. 157; p. 163.
Target, Moving. P. Chiantore. No. 957,742; May 10; Sp. p. 2630; Gaz. vol. 154; p. 454.
Target-practice apparatus. J. M. Clark, 3rd. No. 971,828; Oct. 4; Sp. p. 657; Gaz. vol. 159; p. 116.
Target, Recording-. J. W. Rice. No. 954,997; Apr. 12; Sp. p. 2835; Gaz. vol. 153; p. 481.
Target, Recording-. S. A. M. Rose. No. 966,361; Aug. 2; Sp. p. 1071; Gaz. vol. 157; p. 173.
Target-throwing device. L. A. Fridell. No. 947,299; Jan. 25; Sp. p. 5090; Gaz. vol. 150; p. 860.
Target-trap. W. H. Hiestand. No. 946,221; Jan. 11; Sp. p. 2659; Gaz. vol. 150; p. 443.
Target-trap. W. J. Clow. No. 948,499; Feb. 8; Sp. p. 1517; Gaz. vol. 151; p. 268.
Target-trap. H. C. Lord. No. 956,117; Apr. 26; Sp. p. 5256; Gaz. vol. 153; p. 925.
Target-trap. H. E. Winans. No. 963,347; July 5; Sp. p. 769; Gaz. vol. 156; p. 113.
Target-trap carrier. H. C. Peffer. No. 954,583; Apr. 12; Sp. p. 1891; Gaz. vol. 153; p. 337.
Tax-rate sheets, Holder, adding-board, and indicator for. H. F. Heckert. No. 967,912; Aug. 23; Sp. p. 4393; Gaz. vol. 157; p. 774.
Taximeter. A. J. B. E. Darras. No. 948,371; Feb. 8; Sp. p. 1244; Gaz. vol. 151; p. 225.
Taximeter. H. Aron and O. Runge. No. 950,461; Feb. 22; Sp. p. 5632; Gaz. vol. 151; p. 988.
Taximeter. J. W. Jones. No. 951,077; Mar. 1; Sp. p. 1239; Gaz. vol. 152; p. 204.
Taximeter. J. G. MacPherson. No. 957,073; May 3; Sp. p. 1232; Gaz. vol. 154; p. 196.
Taximeter. A. J. B. E. Darras. No. 963,281; July 5; Sp. p. 649; Gaz. vol. 156; p. 91.
Taximeter. T. W. Post. No. 970,749; Sept. 20; Sp. p. 3456; Gaz. vol. 158; p. 591.

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Taximeter fraud-preventive device. T. W. Post. No. 970,748; Sept. 20; Sp. p. 3454; Gaz. vol. 158; p. 591.
Taximeters, Recording device for use with. F. H. Rogers. No. 953,975; Apr. 5; Sp. p. 572; Gaz. vol. 153; p. 103.
Tea and coffee saver. E. F. Corbett. No. 949,523; Feb. 15; Sp. p. 3651; Gaz. vol. 151; p. 636.
Tea or coffee pot. G. E. Curtiss. No. 954,502; Apr. 12; Sp. p. 1725; Gaz. vol. 153; p. 310.
Tea or coffee pot. J. W. Chapman. No. 973,758; Oct. 25; Sp. p. 4919; Gaz. vol. 159; p. 855.
Teapot. A. Hering. No. 945,388; Jan. 4; Sp. p. 832; Gaz. vol. 150; p. 129.
Teapot. C. G. Slope. No. 950,732; Mar. 1; Sp. p. 587; Gaz. vol. 152; p. 93.
Teaching device, Music-. M. S. Whitman. No. 964,593; July 19; Sp. p. 3425; Gaz. vol. 156; p. 585.
Teaching device, Music-. O. Nelson. No. 979,193; Dec. 20; Sp. p. 3863; Gaz. vol. 161; p. 668.
Teaching device, Swimming-. C. G. Sickels. No. 964,886; July 19; Sp. p. 4123; Gaz. vol. 156; p. 686.
Teaching parliamentary law, Means for. J. T. Robert. No. 946,868; Jan. 18; Sp. p. 4185; Gaz. vol. 150; p. 689.
Teaching penmanship, Device for. S. R. Smith. No. 972,273; Oct. 11; Sp. p. 1662; Gaz. vol. 159; p. 292.
Teaching wireless telegraphy, Apparatus for. F. E. Butler. No. 956,936; May 3; Sp. p. 940; Gaz. vol. 154; p. 150.
Teat-cup. D. Klein. No. 949,186; Feb. 15; Sp. p. 2956; Gaz. vol. 151; p. 523.
Teat-cup. D. Klein and D. Brown. No. 954,110; Apr. 5; Sp. p. 864; Gaz. vol. 153; p. 150.
Teat-cup. F. B. Groff. No. 973,036; Oct. 18; Sp. p. 3375; Gaz. vol. 159; p. 584.
Teat-cup. D. T. Sharples. No. 974,834; Nov. 8; Sp. p. 1698; Gaz. vol. 160; p. 285.
Teat-cup. D. Klein and D. Brown. No. 975,047; Nov. 8; Sp. p. 2202; Gaz. vol. 160; p. 358.
Tedder attachment. J. Shoemaker. No. 968,809; Aug. 30; Sp. p. 6351; Gaz. vol. 157; p. 1107.
Teeter and merry-go-round. M. Miller. No. 956,496; Apr. 26; Sp. p. 6101; Gaz. vol. 153; p. 1056.
Teeth, Apparatus for making backings for artificial. F. S. Sawaya. No. 969,986; Sept. 13; Sp. p. 1821; Gaz. vol. 158; p. 310.
Teeth, Composition for use in burning artificial. H. Wienand. No. 965,267; July 26; Sp. p. 4882; Gaz. vol. 156; p. 843.
Teeth, Fastening means for artificial. T. E. Dimelow. No. 947,378; Jan. 25; Sp. p. 5286; Gaz. vol. 150; p. 888.
Teeth, Porcelain crown for artificial. H. Schweitzer. No. 977,557; Dec. 6; Sp. p. 333; Gaz. vol. 161; p. 48.
Teeth, Treating ulcerated. F. M. Crane. No. 961,287; June 14; Sp. p. 2135; Gaz. vol. 155; p. 383.
Telautograph. G. S. Tiffany. No. 954,062; Apr. 5; Sp. p. 759; Gaz. vol. 153; p. 132.
Telautograph. G. S. Tiffany. No. 954,150; Apr. 5; Sp. p. 952; Gaz. vol. 153; p. 163.
Telautograph. R. W. Armstrong. No. 978,128; Dec. 13; Sp. p. 1547; Gaz. vol. 161; p. 273.
Telautograph instrument. A. L. Golden. No. 957,050; May 3; Sp. p. 1183; Gaz. vol. 154; p. 188.
Telegraph and other pole. J. F. Hickman. No. 965,185; July 26; Sp. p. 4715; Gaz. vol. 156; p. 816.
Telegraph and other poles, Protector for. R. B. Lamb. No. 966,337; Aug. 2; Sp. p. 1019; Gaz. vol. 157; p. 165.
Telegraph and telephone system, Combined. E. R. Cunningham. No. 976,050; Nov. 15; Sp. p. 4291; Gaz. vol. 160; p. 728.
Telegraph apparatus. R. L. Dean. No. 963,213; July 5; Sp. p. 482; Gaz. vol. 156; p. 66.
Telegraph apparatus. J. B. Odell. No. 980,118; Dec. 27; Sp. p. 5859; Gaz. vol. 161; p. 1002.
Telegraph apparatus, Multiplex-. S. D. Field. No. 975,756; Nov. 15; Sp. p. 3719; Gaz. vol. 160; p. 627.
Telegraph-arm. M. Lachman. No. 951,190; Mar. 8; Sp. p. 1465; Gaz. vol. 152; p. 265.
Telegraph bulletin-printer. G. L. Campbell and H. G. Davis. No. 950,473; Mar. 1; Sp. p. 13; Gaz. vol. 152; p. 5.
Telegraph-circuits, Repeating mechanism for. J. G. Kerr. No. 950,047; Feb. 22; Sp. p. 4837; Gaz. vol. 151; p. 851.
Telegraph instrument. W. M. Jackson. No. 954,298; Apr. 5; Sp. p. 1285; Gaz. vol. 153; p. 212.
Telegraph instrument. F. G. Slemmer. No. 965,417; July 26; Sp. p. 5209; Gaz. vol. 156; p. 894.
Telegraph-key. F. G. Slemmer. No. 971,572; Oct. 4; Sp. p. 133; Gaz. vol. 159; p. 25.
Telegraph-pole and the like. B. Haskell. No. 969,859; Sept. 13; Sp. p. 1555; Gaz. vol. 158; p. 267.
Telegraph-pole and the like. B. Haskell. No. 969,860; Sept. 13; Sp. p. 1556; Gaz. vol. 158; p. 268.
Telegraph-pole and the like. B. Haskell. No. 969,862; Sept. 13; Sp. p. 1558; Gaz. vol. 158; p. 268.
Telegraph-pole and the like. B. Haskell. No. 969,863; Sept. 13; Sp. p. 1560; Gaz. vol. 158; p. 268.
Telegraph-pole or fence-post mold. F. H. Tidnam. No. 975,481; Nov. 15; Sp. p. 3124; Gaz. vol. 160; p. 534.
Telegraph, Printing-. J. E. Wright. No. 954,489; Apr. 12; Sp. p. 1686; Gaz. vol. 153; p. 305.
Telegraph, Printing-. T. M. Foote. No. 962,082; June 21; Sp. p. 3848; Gaz. vol. 155; p. 673.
Telegraph, Printing-. A. C. Crehore. No. 969,527; Sept. 6; Sp. p. 801; Gaz. vol. 158; p. 126.
Telegraph receiver, Printing-. J. Burry. No. 962,694; June 28; Sp. p. 5191; Gaz. vol. 155; p. 907.
Telegraph receivers, Type-carriage-propelling mechanism for printing-. G. S. Hiltz. No. 962,431; June 28; Sp. p. 4622; Gaz. vol. 155; p. 816.
Telegraph receiving apparatus, Wireless-. C. D. Babcock. No. 952,403; Mar. 15; Sp. p. 3900; Gaz. vol. 152; p. 698.
Telegraph-repeater. T. H. Tudor. No. 966,490; Aug. 9; Sp. p. 1370; Gaz. vol. 157; p. 243.
Telegraph sending-machine. J. R. Jones. No. 977,452; Dec. 6; Sp. p. 52; Gaz. vol. 161; p. 11.
Telegraph signals, Apparatus for determining the direction of space-. J. S. Stone. No. 961,265; June 14; Sp. p. 2075; Gaz. vol. 155; p. 373.
Telegraph-sounder. G. F. Oehmen. No. 955,676; Apr. 19; Sp. p. 4293; Gaz. vol. 153; p. 742.
Telegraph system. G. E. Hines. No. 977,008; Nov. 29; Sp. p. 6487; Gaz. vol. 160; p. 1106.
Telegraph system, Alternating-current. C. Meyer. No. 953,701; Apr. 5; Sp. p. 40; Gaz. vol. 153; p. 10.
Telegraph system, Fire-alarm-. F. W. Cole. No. 970,887; Sept. 20; Sp. p. 3746; Gaz. vol. 158; p. 639.
Telegraph system, Fire and police. F. W. Cole. No. 970,886; Sept. 20; Sp. p. 3735; Gaz. vol. 158; p. 639.
Telegraph system, Multiple-. E. P. Batzel. No. 960,482; June 7; Sp. p. 479; Gaz. vol. 155; p. 81.
Telegraph system, Secret. W. P. Phillips. No. 963,062; July 5; Sp. p. 69; Gaz. vol. 156; p. 14.
Telegraph systems, Coherer for wireless-. C. Walker. No. 968,007; Aug. 23; Sp. p. 4610; Gaz. vol. 157; p. 806.
Telegraph systems, Spark-gap for radiotone wireless-. E. J. Simon. No. 971,935; Oct. 4; Sp. p. 927; Gaz. vol. 159; p. 157.
Telegraph-transmitter. J. C. Barclay. No. 976,537; Nov. 22; Sp. p. 5437; Gaz. vol. 160; p. 919.
Telegraph-transmitter apparatus. H. G. Davis. No. 978,435; Dec. 13; Sp. p. 2201; Gaz. vol. 161; p. 381.
Telegraph-transmitter, Keyboard. D. S. Troth. No. 978,079; Dec. 6; Sp. p. 1410; Gaz. vol. 161; p. 227.
Telegraph, trolley, and like pole, Metal. J. F. Craven. No. 948,088; Feb. 1; Sp. p. 648; Gaz. vol. 151; p. 105.
Telegraphic apparatus. H. E. Powell. No. 953,550; Mar. 29; Sp. p. 6393; Gaz. vol. 152; p. 1145.
Telegraphic circuits, Apparatus for transmitting signals over. L. M. Potts. No. 952,944; Mar. 22; Sp. p. 5080; Gaz. vol. 152; p. 912.
Telegraphic keyboard transmitting apparatus. P. B. Delany. No. 957,312; May 10; Sp. p. 1763; Gaz. vol. 154; p. 308.
Telegraphic relay. I. Kitsée. No. 956,808; May 3; Sp. p. 670; Gaz. vol. 154; p. 105.
Telegraphic relay. I. Kitsee. No. 963,298; July 5; Sp. p. 677; Gaz. vol. 156; p. 96.
Telegraphic transmitter. P. B. Delany. No. 947,224; Jan. 25; Sp. p. 4893; Gaz. vol. 150; p. 834.
Telegraphic transmitter. P. Dinger. (Reissue.) No. 13,130; July 12; Sp. p. 3116; Gaz. vol. 156; p. 513.
Telegraphic transmitter, Keyboard. E. E. Kleinschmidt. No. 946,372; Jan. 11; Sp. p. 3082; Gaz. vol. 150; p. 496.
Telegraphic transmitting-tapes, Keyboard apparatus for punching. R. Hitchcock. No. 975,427; Nov. 15; Sp. p. 3013; Gaz. vol. 160; p. 514.
Telegraphone. R. C. Browne. No. 947,148; Jan. 18; Sp. p. 4712; Gaz. vol. 150; p. 779.
Telegraphy. I. Kitsee. No. 962,709; June 28; Sp. p. 5224; Gaz. vol. 155; p. 912.
Telegraphy. C. G. Burke. No. 971,170; Sept. 27; Sp. p. 4329; Gaz. vol. 158; p. 759.
Telegraphy, Aerial conductor arrangement for wireless. G. von Arco. No. 959,100; May 24; Sp. p. 5830; Gaz. vol. 154; p. 977.
Telegraphy, Apparatus for wireless. G. Marconi. No. 954,640; Apr. 12; Sp. p. 2029; Gaz. vol. 153; p. 357.
Telegraphy, Automatic. G. T. Kanzer-Chegodard. No. 974,279; Nov. 1; Sp. p. 450; Gaz. vol. 160; p. 66.
Telegraphy, Device for detecting waves in wireless. G. C. Ellwood. No. 967,118; Aug. 9; Sp. p. 2779; Gaz. vol. 157; p. 455.
Telegraphy, Directed wireless. E. Bellini and A. Tosi. No. 948,086; Feb. 1; Sp. p. 643; Gaz. vol. 151; p. 104.
Telegraphy, Electric. J. Kajiura. No. 977,879; Dec. 6; Sp. p. 998; Gaz. vol. 161; p. 157.
Telegraphy, Electric connection for multiple wireless. S. Eisenstein. No. 950,258; Feb. 22; Sp. p. 5267; Gaz. vol. 151; p. 924.
Telegraphy or wireless telephony, Wireless. O. Rochefort. No. 972,721; Oct. 11; Sp. p. 2638; Gaz. vol. 159; p. 448.
Telegraphy, Portable station for wireless. G. von Arco. No. 958,209; May 17; Sp. p. 3828; Gaz. vol. 154; p. 647.
Telegraphy, Receiver for wireless. W. Schloemilch. No. 958,181; May 17; Sp. p. 3773; Gaz. vol. 154; p. 638.
Telegraphy, Receiving apparatus for wireless. R. R. Goldthorp. No. 959,510; May 31; Sp. p. 6692; Gaz. vol. 154; p. 1138.
Telegraphy, Space. J. S. Stone. No. 946,166; Jan. 11; Sp. p. 2540; Gaz. vol. 150; p. 424.
Telegraphy, Space. J. S. Stone. No. 946,167; Jan. 11; Sp. p. 2545; Gaz. vol. 150; p. 424.

Telegraphy, Space. J. S. Stone. No. 946,168; Jan. 11; Sp. p. 2547; Gaz. vol. 150; p. 424.
Telegraphy, Space. S. Cabot. No. 949,518; Feb. 15; Sp. p. 3642; Gaz. vol. 151; p. 634.
Telegraphy, Space. C. D. Babcock. No. 965,060; July 19; Sp. p. 4469; Gaz. vol. 156; p. 744.
Telegraphy, Space. C. R. Saffell. No. 966,475; Aug. 9; Sp. p. 1339; Gaz. vol. 157; p. 238.
Telegraphy, Space. L. De Forest. No. 979,276; Dec. 20; Sp. p. 4048; Gaz. vol. 161; p. 696.
Telegraphy stations, System of directed reception for wireless-. E. Bellini and A. Tosi. No. 945,440; Jan. 4; Sp. p. 935; Gaz. vol. 150; p. 147.
Telegraphy, Submarine-cable. S. G. Brown. No. 965,368; July 26; Sp. p. 5115; Gaz. vol. 156; p. 878.
Telegraphy, Wave-detector for wireless. W. Schloemilch and P. F. Pichon. No. 962,262; June 21; Sp. p. 4247; Gaz. vol. 155; p. 735.
Telegraphy, Wireless. R. A. Fessenden. No. 948,068; Feb. 1; Sp. p. 609; Gaz. vol. 151; p. 98.
Telegraphy, Wireless. G. Marconi. No. 954,641; Apr. 12; Sp. p. 2030; Gaz. vol. 153; p. 357.
Telegraphy, Wireless. F. G. Sargent. No. 957,001; May 3; Sp. p. 1090; Gaz. vol. 154; p. 171.
Telegraphy, Wireless. R. C. Galletti. No. 960,304; June 7; Sp. p. 127; Gaz. vol. 155; p. 25.
Telegraphy, Wireless. R. A. Fessenden. No. 974,762; Nov. 1; Sp. p. 1548; Gaz. vol. 160; p. 238.
Telegraphy, Wireless. F. G. Sargent. No. 976,500; Nov. 22; Sp. p. 5348; Gaz. vol. 160; p. 907.
Telemotor, Hydraulic. F. C. Schoen. No. 966,479; Aug. 9; Sp. p. 1345; Gaz. vol. 157; p. 239.
Telephone. W. H. Thompson. No. 955,923; Apr. 26; Sp. p. 4842; Gaz. vol. 153; p. 856.
Telephone. J. W. Atlee. No. 971,237; Sept. 27; Sp. p. 4474; Gaz. vol. 158; p. 783.
Telephone adjunct. A. Rector. No. 946,270; Jan. 11; Sp. p. 2775; Gaz. vol. 150; p. 461.
Telephone and alarm or kindred service system, Combined. W. W. Dean. No. 967,113; Aug. 9; Sp. p. 2764; Gaz. vol. 157; p. 453.
Telephone and alarm or kindred service system, Combined. W. W. Dean. No. 978,709; Dec. 13; Sp. p. 2793; Gaz. vol. 161; p. 476.
Telephone and control system, Combined. H. G. Webster. No. 963,192; July 5; Sp. p. 415; Gaz. vol. 156; p. 59.
Telephone and fire-alarm or kindred service system, Combined. W. W. Dean. No. 955,056; Apr. 12; Sp. p. 2950; Gaz. vol. 153; p. 500.
Telephone and protective alarm system, Combined. J. G. Nolen and J. E. Shepherd. No. 955,472; Apr. 19; Sp. p. 3828; Gaz. vol. 153; p. 673.
Telephone and protective alarm system, Combined. J. G. Nolen. No. 969,393; Sept. 6; Sp. p. 515; Gaz. vol. 158; p. 82.
Telephone and service system, Combined. H. G. Webster. No. 976,961; Nov. 29; Sp. p. 6370; Gaz. vol. 160; p. 1090.
Telephone and telautograph exchange system, Combined. F. Ritchie. No. 965,748; July 26; Sp. p. 5932; Gaz. vol. 156; p. 1010.
Telephone and telegraph system, Combined. G. E. Hines. No. 954,734; Apr. 12; Sp. p. 2249; Gaz. vol. 153; p. 390.
Telephone and telegraph system, Composite. O. T. Lademann. No. 956,373; Apr. 26; Sp. p. 5830; Gaz. vol. 153; p. 1012.
Telephone and telegraph system, Composite. O. M. Leich. No. 978,909; Dec. 20; Sp. p. 3190; Gaz. vol. 161; p. 567.
Telephone and testing instrument, Portable. N. Macking. No. 961,146; June 14; Sp. p. 1825; Gaz. vol. 155; p. 331.
Telephone apparatus. D. H. Wilson. No. 950,799; Mar. 1; Sp. p. 734; Gaz. vol. 152; p. 117.
Telephone apparatus. D. H. Wilson. No. 956,251; Apr. 26; Sp. p. 5568; Gaz. vol. 153; p. 971.
Telephone apparatus. C. F. Bradburn. No. 957,489; May 10; Sp. p. 2116; Gaz. vol. 154; p. 367.
Telephone apparatus. C. F. Bradburn. No. 957,490; May 10; Sp. p. 2121; Gaz. vol. 154; p. 368.
Telephone apparatus. G. Babcock. No. 969,832; Sept. 13; Sp. p. 1497; Gaz. vol. 158; p. 258.
Telephone apparatus. G. Babcock. No. 974,110; Nov. 1; Sp. p. 6; Gaz. vol. 160; p. 4.
Telephone apparatus, Coin-operated. D. P. Meade. No. 978,774; Dec. 13; Sp. p. 2928; Gaz. vol. 161; p. 495.
Telephone attachment. T. W. Small. No. 953,442; Mar. 29; Sp. p. 6165; Gaz. vol. 152; p. 1106.
Telephone attachment. J. W. Nilsson. No. 955,190; Apr. 19; Sp. p. 3215; Gaz. vol. 153; p. 577.
Telephone attachment. A. G. Howard. No. 956,530; May 3; Sp. p. 44; Gaz. vol. 154; p. 10.
Telephone attachment. J. Kuhn. No. 957,067; May 3; Sp. p. 1221; Gaz. vol. 154; p. 193.
Telephone attachment. J. A. Perry. No. 961,157; June 14; Sp. p. 1847; Gaz. vol. 155; p. 335.
Telephone attachment. A. C. Hewitt and W. C. Thomas. No. 970,449; Sept. 13; Sp. p. 2769; Gaz. vol. 158; p. 466.
Telephone attachment. J. W. Nilsson. No. 972,399; Oct. 11; Sp. p. 1913; Gaz. vol. 159; p. 336.
Telephone attachment. W. C. Fisk and H. L. White. No. 972,839; Oct. 18; Sp. p. 2886; Gaz. vol. 159; p. 514.
Telephone, Automatic. J. E. Rogers. No. 954,701; Apr. 12; Sp. p. 2156; Gaz. vol. 153; p. 377.
Telephone bell or ringer. P. C. Burns. No. 954,167; Apr. 5; Sp. p. 1001; Gaz. vol. 153; p. 169.
Telephone-bracket. R. M. Vick. No. 956,911; May 3; Sp. p. 898; Gaz. vol. 154; p. 142.
Telephone call mechanism, Party-line-. W. E. Zabst. No. 958,847; May 24; Sp. p. 5298; Gaz. vol. 154; p. 892.
Telephone-call recorder. H. K. Sandell. No. 979,569; Dec. 27; Sp. p. 4651; Gaz. vol. 161; p. 817.
Telephone-call recorder. H. K. Sandell. No. 979,570; Dec. 27; Sp. p. 4655; Gaz. vol. 161; p. 817.
Telephone-call register. J. Merckens and A. J. Herrick. No. 953,344; Mar. 29; Sp. p. 5948; Gaz. vol. 152; p. 1073.
Telephone call system. W. E. Zabst. No. 948,941; Feb. 8; Sp. p. 2431; Gaz. vol. 151; p. 414.
Telephone, Coin-controlled. R. L. Bowman. No. 956,754; May 3; Sp. p. 548; Gaz. vol. 154; p. 87.
Telephone connection, Diplex. A. W. Ebeling. No. 960,856; June 7; Sp. p. 1243; Gaz. vol. 155; p. 208.
Telephone connection-registering device. D. S. Hulfish. No. 947,335; Jan. 25; Sp. p. 5179; Gaz. vol. 150; p. 874.
Telephone cut-out. P. H. Harner. No. 979,292; Dec. 20; Sp. p. 4078; Gaz. vol. 161; p. 701.
Telephone desk set. B. W. Sweet. No. 950,809; Mar. 1; Sp. p. 748; Gaz. vol. 152; p. 120.
Telephone desk-set apparatus and circuit. B. W. Sweet. No. 978,958; Dec. 20; Sp. p. 3324; Gaz. vol. 161; p. 585.
Telephone desk-stand. W. Leaver. No. 977,658; Dec. 6; Sp. p. 539; Gaz. vol. 161; p. 82.
Telephone dictating machine or apparatus. O. F. Falk. No. 967,748; Aug. 16; Sp. p. 4065; Gaz. vol. 157; p. 696.
Telephone direction-plate. B. S. Whitehead. No. 954,770; Apr. 12; Sp. p. 2332; Gaz. vol. 153; p. 403.
Telephone-disinfector. B. F. Gardner. No. 975,346; Nov. 8; Sp. p. 2850; Gaz. vol. 160; p. 460.
Telephone-drop. A. H. Weiss. No. 969,818; Sept. 13; Sp. p. 1466; Gaz. vol. 158; p. 253.
Telephone-exchange system. R. H. Manson. No. 952,267; Mar. 15; Sp. p. 3634; Gaz. vol. 152; p. 653.
Telephone-exchange system. E. E. Clement. No. 956,484; Apr. 26; Sp. p. 6068; Gaz. vol. 153; p. 1052.
Telephone-exchange system. S. B. Fowler. No. 959,498; May 31; Sp. p. 6658; Gaz. vol. 154; p. 1135.
Telephone-exchange system. J. L. Wright. No. 965,976; Aug. 2; Sp. p. 272; Gaz. vol. 157; p. 46.
Telephone-exchange system. C. E. Hague. No. 966,013; Aug. 2; Sp. p. 358; Gaz. vol. 157; p. 58.
Telephone-exchange systems, Service-meter circuit for. A. M. Bullard. No. 966,733; Aug. 9; Sp. p. 1923; Gaz. vol. 157; p. 325.
Telephone-exchanges, Automatic peg-counter for. C. H. North. No. 965,833; July 26; Sp. p. 6129; Gaz. vol. 156; p. 1039.
Telephone, fence, and telegraph pole. H. M. Adams. No. 962,109; June 21; Sp. p. 3915; Gaz. vol. 155; p. 683.
Telephone instrument, Combination. A. L. Sohm. No. 945,480; Jan. 4; Sp. p. 1013; Gaz. vol. 150; p. 159.
Telephone-line apparatus. C. D. Enochs. No. 946,528; Jan. 11; Sp. p. 3425; Gaz. vol. 150; p. 549.
Telephone-line apparatus. C. D. Enochs. No. 952,104; Mar. 15; Sp. p. 3324; Gaz. vol. 152; p. 598.
Telephone-line, Multiple-station. A. J. Farmer. No. 949,530; Feb. 15; Sp. p. 3667; Gaz. vol. 151; p. 638.
Telephone-line-wire detacher. J. K. Tomlinson. No. 969,676; Sept. 6; Sp. p. 1111; Gaz. vol. 158; p. 179.
Telephone-lines, Auxiliary signaling apparatus for. C. S. Winston. No. 947,320; Jan. 25; Sp. p. 5145; Gaz. vol. 150; p. 869.
Telephone-lines, Central-station call system for. W. E. Butler. No. 977,067; Nov. 29; Sp. p. 6599; Gaz. vol. 160; p. 1126.
Telephone lock-out device. C. W. Throckmorton. No. 946,287; Jan. 11; Sp. p. 2806; Gaz. vol. 150; p. 467.
Telephone lock-out device, Party-. D. W. Kneisly. No. 953,340; Mar. 29; Sp. p. 5936; Gaz. vol. 152; p. 1071.
Telephone, Magneto-. O. M. Leich. No. 967,204; Aug. 16; Sp. p. 2955; Gaz. vol. 157; p. 511.
Telephone-meter and circuit connection therefor. R. H. Manson. No. 969,789; Sept. 13; Sp. p. 1385; Gaz. vol. 158; p. 243.
Telephone meter system and apparatus. R. H. Manson. No. 946,380; Jan. 11; Sp. p. 3102; Gaz. vol. 150; p. 498.
Telephone meter system and apparatus. R. H. Manson. No. 946,381; Jan. 11; Sp. p. 3104; Gaz. vol. 150; p. 498.
Telephone meter system and apparatus. R. H. Manson. No. 946,382; Jan. 11; Sp. p. 3107; Gaz. vol. 150; p. 499.
Telephone-meter system and apparatus. R. H. Manson. No. 958,145; May 17; Sp. p. 3700; Gaz. vol. 154; p. 625.
Telephone-microphone. V. Tardieu. No. 954,829; Apr. 12; Sp. p. 2487; Gaz. vol. 153; p. 423.
Telephone-mouthpiece. M. Elzas. No. 946,725; Jan. 18; Sp. p. 3821; Gaz. vol. 150; p. 638.
Telephone-mouthpiece. A. K. Young. No. 952,557; Mar. 22; Sp. p. 4253; Gaz. vol. 152; p. 780.
Telephone-mouthpiece. H. Berg-Jager. No. 954,372; Apr. 5; Sp. p. 1430; Gaz. vol. 153; p. 238.
Telephone-mouthpiece. A. Bebout. No. 957,404; May 10; Sp. p. 1961; Gaz. vol. 154; p. 339.
Telephone-mouthpiece. J. A. Hall. No. 976,457; Nov. 22; Sp. p. 5258; Gaz. vol. 160; p. 892.

Alphabetical list of inventions—Continued.

Telephone-mouthpiece. G. R. Taylor. No. 978,075; Dec. 6; Sp. p. 1404; Gaz. vol. 161; p. 226.
Telephone-mouthpiece. G. W. Gibberd and O. A. Elias. No. 979,467; Dec. 27; Sp. p. 4424; Gaz. vol. 161; p. 782.
Telephone-mouthpiece, Antiseptic. W. M. English and H. M. Lichtenstein. No. 956,953; May 3; Sp. p. 994; Gaz. vol. 154; p. 156.
Telephone-mouthpiece attachment. B. C. Maxwell. No. 951,825; Mar. 15; Sp. p. 2766; Gaz. vol. 152; p. 506.
Telephone-mouthpiece attachment. A. P. Levi, H. and M. Schlessinger. No. 972,114; Oct. 4; Sp. p. 1297; Gaz. vol. 159; p. 219.
Telephone-mouthpiece, Disinfectant. J. W. Dixon. No. 946,839; Jan. 18; Sp. p. 4104; Gaz. vol. 150; p. 679.
Telephone-mouthpieces, Antiseptic attachment for. L. Rosenwald and J. H. R. Anthony. No. 951,844; Mar. 15; Sp. p. 2814; Gaz. vol. 152; p. 513.
Telephone-muffler. W. D. Plumb. No. 950,865; Mar. 1; Sp. p. 856; Gaz. vol. 152; p. 137.
Telephone noise-excluder and current-saving device. W. E. Burt. No. 967,719; Aug. 16; Sp. p. 4001; Gaz. vol. 157; p. 686.
Telephone, Party-line. C. A. Soans and A. H. Graves. No. 978,951; Dec. 20; Sp. p. 3286; Gaz. vol. 161; p. 582.
Telephone pay-station. F. X. Bee. No. 950,220; Feb. 22; Sp. p. 5185; Gaz. vol. 151; p. 910.
Telephone pay-station, Automatic. F. X. Bee. No. 945,438; Jan. 4; Sp. p. 930; Gaz. vol. 150; p. 145.
Telephone pay-station box. C. A. Anderson. No. 948,753; Feb. 8; Sp. p. 2071; Gaz. vol. 151; p. 353.
Telephone-receiver. C. D. Enochs. No. 949,821; Feb. 22; Sp. p. 4275; Gaz. vol. 151; p. 771.
Telephone-receiver. J. Noble. No. 953,970; Apr. 5; Sp. p. 563; Gaz. vol. 153; p. 102.
Telephone-receiver. H. R. Stuart and E. O. Kizer. No. 955,921; Apr. 26; Sp. p. 4838; Gaz. vol. 153; p. 856.
Telephone-receiver. N. Baldwin. No. 957,403; May 10; Sp. p. 1958; Gaz. vol. 154; p. 338.
Telephone-receiver. W. F. Taylor. No. 960,731; June 7; Sp. p. 998; Gaz. vol. 155; p. 167.
Telephone-receiver. S. S. Sonneborn. No. 963,954; July 12; Sp. p. 2053; Gaz. vol. 156; p. 336.
Telephone-receiver. W. W. Dean. No. 964,622; July 19; Sp. p. 3479; Gaz. vol. 156; p. 595.
Telephone-receiver. E. Schwartz. No. 966,247; Aug. 2; Sp. p. 863; Gaz. vol. 157; p. 137.
Telephone-receiver. K. and I. W. Nichols. No. 966,457; Aug. 9; Sp. p. 1316; Gaz. vol. 157; p. 235.
Telephone-receiver. H. R. Stuart. No. 976,230; Nov. 22; Sp. p. 4737; Gaz. vol. 160; p. 813.
Telephone-receiver. H. R. Stuart. No. 977,981; Dec. 6; Sp. p. 1211; Gaz. vol. 161; p. 194.
Telephone-receiver. W. H. Thompson and H. R. Stuart. No. 980,024; Dec. 27; Sp. p. 5616; Gaz. vol. 161; p. 971.
Telephone-receiver attachment. G. S. McComb. No. 963,628; July 5; Sp. p. 1338; Gaz. vol. 156; p. 207.
Telephone-receiver bracket. H. P. Voss. No. 959,409; May 24; Sp. p. 6443; Gaz. vol. 154; p. 1078.
Telephone-receiver, Device to be used as. K. Ort, J. Rieger, and J. K. Ort. No. 963,934; July 12; Sp. p. 2012; Gaz. vol. 156; p. 331.
Telephone-receiver handle. C. A. Barnes, Sr. No. 971,961; Oct. 4; Sp. p. 1013; Gaz. vol. 159; p. 168.
Telephone-receiver holder. J. Hitchcock. No. 968,354; Aug. 23; Sp. p. 5366; Gaz. vol. 157; p. 925.
Telephone-receiver holder. C. R. Phillips. No. 969,403; Sept. 6; Sp. p. 538; Gaz. vol. 158; p. 86.
Telephone-receiver holder. J. F. Hines. No. 973,198; Oct. 18; Sp. p. 3750; Gaz. vol. 159; p. 640.
Telephone-receiver holder. H. M. McAlarney. No. 974,506; Nov. 1; Sp. p. 988; Gaz. vol. 160; p. 147.
Telephone-receiver support. R. Zinsmayer. No. 949,814; Feb. 22; Sp. p. 4257; Gaz. vol. 151; p. 768.
Telephone-receiver support. J. G. Harris and A. Mancuso. No. 978,370; Dec. 13; Sp. p. 2057; Gaz. vol. 161; p. 359.
Telephone receiving apparatus. G. W. Pickard. No. 972,715; Oct. 11; Sp. p. 2624; Gaz. vol. 159; p. 446.
Telephone relay or repeater. L. W. Southgate. No. 961,815; June 21; Sp. p. 3267; Gaz. vol. 155; p. 583.
Telephone relay or repeater. H. Morgan. No. 979,986; Dec. 27; Sp. p. 5542; Gaz. vol. 161; p. 957.
Telephone-repeater. P. Stragiotti. No. 954,402; Apr. 5; Sp. p. 1493; Gaz. vol. 153; p. 248.
Telephone-repeater. P. Stragiotti. No. 958,560; May 17; Sp. p. 4675; Gaz. vol. 154; p. 768.
Telephone-repeater. N. G. Warth. No. 960,458; June 7; Sp. p. 428; Gaz. vol. 155; p. 73.
Telephone-repeater. C. Adams-Randall. No. 970,288; Sept. 13; Sp. p. 2452; Gaz. vol. 158; p. 413.
Telephone-repeater. S. L. Campbell. No. 975,933; Nov. 15; Sp. p. 4079; Gaz. vol. 160; p. 688.
Telephone-repeater. C. D. Lindridge. No. 979,012; Dec. 20; Sp. p. 3442; Gaz. vol. 161; p. 605.
Telephone repeater system. N. G. Warth. No. 978,083; Dec. 6; Sp. p. 1418; Gaz. vol. 161; p. 229.
Telephone-ringer, Harmonic party-line. C. J. Erickson. No. 978,864; Dec. 20; Sp. p. 3101; Gaz. vol. 161; p. 550.
Telephone selecting system. D. W. Jones. No. 949,235; Feb. 15; Sp. p. 3047; Gaz. vol. 151; p. 539.
Telephone service, Apparatus for measuring. C. W. Greenslitt. No. 965,453; July 26; Sp. p. 5302; Gaz. vol. 156; p. 906.
Telephone service, System and apparatus for measuring. H. D. Stroud and C. W. Mahon. No. 965,047; July 19; Sp. p. 4445; Gaz. vol. 156; p. 740.
Telephone set. W. Kaisling. No. 958,925; May 24; Sp. p. 5480; Gaz. vol. 154; p. 919.
Telephone signal attachment. W. F. Mikolasek. No. 967,409; Aug. 16; Sp. p. 3378; Gaz. vol. 157; p. 582.
Telephone signal-bell. H. L. Wuerffel. No. 955,302; Apr. 19; Sp. p. 3465; Gaz. vol. 153; p. 615.
Telephone signaling apparatus, Railway. A. A. Monson. No. 950,004; Feb. 22; Sp. p. 4735; Gaz. vol. 151; p. 836.
Telephone standard, Desk-. C. T. Mason. No. 959,243; May 24; Sp. p. 6131; Gaz. vol. 154; p. 1024.
Telephone-support. H. Blumenthal. No. 960,151; May 31; Sp. p. 8067; Gaz. vol. 154; p. 1356.
Telephone-support, Adjustable. R. Krum and H. Weingartner. No. 951,319; Mar. 8; Sp. p. 1749; Gaz. vol. 152; p. 307.
Telephone switch apparatus. S. A. Koltonski. No. 947,340; Jan. 25; Sp. p. 5195; Gaz. vol. 150; p. 876.
Telephone switch-hook. B. W. Sweet. No. 958,979; May 24; Sp. p. 5577; Gaz. vol. 154; p. 537.
Telephone-switchboard key. K. Weman. No. 979,616; Dec. 27; Sp. p. 4752; Gaz. vol. 161; p. 834.
Telephone-switchboards, Combined jack and drop for. C. D. Enochs. No. 950,168; Feb. 22; Sp. p. 5078; Gaz. vol. 151; p. 891.
Telephone system. H. G. Webster. No. 949,012; Feb. 15; Sp. p. 2596; Gaz. vol. 151; p. 466.
Telephone system. W. W. Dean. No. 950,896; Mar. 1; Sp. p. 914; Gaz. vol. 152; p. 146.
Telephone system. S. H. Couch. No. 951,558; Mar. 8; Sp. p. 2227; Gaz. vol. 152; p. 386.
Telephone system. D. S. Hulfish. No. 952,567; Mar. 22; Sp. p. 4272; Gaz. vol. 152; p. 783.
Telephone system. A. H. Weiss. No. 953,188; Mar. 29; Sp. p. 5619; Gaz. vol. 152; p. 1021.
Telephone system. O. M. Leich. No. 954,445; Apr. 12; Sp. p. 1580; Gaz. vol. 153; p. 290.
Telephone system. M. S. Conner. No. 955,633; Apr. 19; Sp. p. 4183; Gaz. vol. 153; p. 728.
Telephone system. C. F. Bradburn. No. 957,491; May 10; Sp. p. 2125; Gaz. vol. 154; p. 368.
Telephone system. L. E. Hicks. No. 958,248; May 17; Sp. p. 3911; Gaz. vol. 154; p. 658.
Telephone system. E. C. Rodman. No. 958,315; May 17; Sp. p. 4192; Gaz. vol. 154; p. 684.
Telephone system. C. L. Goodrum. No. 958,627; May 17; Sp. p. 4802; Gaz. vol. 154; p. 789.
Telephone system. W. W. Dean. No. 958,856; May 24; Sp. p. 5318; Gaz. vol. 154; p. 895.
Telephone system. W. F. Gradolph and W. C. Hahne. No. 958,868; May 24; Sp. p. 5354; Gaz. vol. 154; p. 899.
Telephone system. A. D. T. Libby. No. 959,765; May 31; Sp. p. 7207; Gaz. vol. 154; p. 1223.
Telephone system. R. C. Livingston. No. 962,645; June 28; Sp. p. 5086; Gaz. vol. 155; p. 889.
Telephone system. J. B. Taylor. No. 962,800; June 28; Sp. p. 5412; Gaz. vol. 155; p. 945.
Telephone system. W. W. Dean. No. 963,875; July 12; Sp. p. 1901; Gaz. vol. 156; p. 312.
Telephone system. O. C. Dennis. No. 965,876; Aug. 2; Sp. p. 56; Gaz. vol. 157; p. 12.
Telephone system. C. S. Winston. No. 967,475; Aug. 16; Sp. p. 3507; Gaz. vol. 157; p. 604.
Telephone system. C. S. Winston. No. 967,476; Aug. 16; Sp. p. 3510; Gaz. vol. 157; p. 604.
Telephone system. H. G. Webster. No. 967,692; Aug. 16; Sp. p. 3934; Gaz. vol. 157; p. 675.
Telephone system. C. T. Patterson. No. 968,396; Aug. 23; Sp. p. 5447; Gaz. vol. 157; p. 939.
Telephone system. A. H. Dyson. No. 971,598; Oct. 4; Sp. p. 188; Gaz. vol. 159; p. 34.
Telephone system. A. H. Dyson. No. 975,338; Nov. 8; Sp. p. 2829; Gaz. vol. 160; p. 458.
Telephone system. C. C. Bradbury. No. 975,504; Nov. 15; Sp. p. 3179; Gaz. vol. 160; p. 541.
Telephone system. F. X. Staub. No. 977,142; Nov. 29; Sp. p. 6782; Gaz. vol. 160; p. 1153.
Telephone system. S. S. Stolp. No. 979,590; Dec. 27; Sp. p. 4696; Gaz. vol. 161; p. 824.
Telephone system and apparatus. A. K. Andriano. No. 958,067; May 17; Sp. p. 3543; Gaz. vol. 154; p. 597.
Telephone system, Automatic. A. H. Dyson. No. 959,485; May 31; Sp. p. 6624; Gaz. vol. 154; p. 1130.
Telephone system, Automatic. A. H. Dyson. No. 974,866; Nov. 8; Sp. p. 1777; Gaz. vol. 160; p. 296.
Telephone system, Automatic. A. H. Dyson. No. 974,955; Nov. 8; Sp. p. 1995; Gaz. vol. 160; p. 328.
Telephone system, Automatic. H. G. Webster. No. 976,524; Nov. 22; Sp. p. 5388; Gaz. vol. 160; p. 914.
Telephone system, Bridging. H. F. Joeckel. No. 955,335; Apr. 19; Sp. p. 3542; Gaz. vol. 153; p. 626.
Telephone system, Central. A. D. T. Libby. No. 972,628; Oct. 11; Sp. p. 2446; Gaz. vol. 159; p. 416.
Telephone system, Cut-out. E. Gould. No. 977,447; Dec. 6; Sp. p. 41; Gaz. vol. 161; p. 9.

Telephone system, Intercommunicating. E. R. Corwin. No. 957,869; May 17; Sp. p. 2901; Gaz. vol. 154; p. 526.
Telephone system, Intercommunicating. W. W. Hawkins. No. 964,513; July 19; Sp. p. 3217; Gaz. vol. 156; p. 557.
Telephone system, Intercommunicating. A. Ekström. No. 969,095; Aug. 30; Sp. p. 6918; Gaz. vol. 157; p. 1205.
Telephone system, Intercommunicating. H. D. Currier. No. 969,774; Sept. 13; Sp. p. 1353; Gaz. vol. 158; p. 238.
Telephone system, Party-line. H. J. Roberts. No. 958,894; May 24; Sp. p. 5416; Gaz. vol. 154; p. 908.
Telephone system, Private-branch intercommunicating. N. H. Holland. No. 967,773; Aug. 16; Sp. p. 4107; Gaz. vol. 157; p. 704.
Telephone system, Private-branch intercommunicating. J. L. McQuarrie. No. 969,799; Sept. 13; Sp. p. 1405; Gaz. vol. 158; p. 246.
Telephone system, Private-branch intercommunicating. J. N. Wallace and E. B. Craft. No. 970,975; Sept. 20; Sp. p. 3903; Gaz. vol. 158; p. 667.
Telephone system, Selective party-line. H. J. Roberts. No. 976,298; Nov. 22; Sp. p. 4907; Gaz. vol. 160; p. 837.
Telephone system, Semi-automatic. C. R. Austin. No. 975,105; Nov. 8; Sp. p. 2320; Gaz. vol. 160; p. 379.
Telephone systems, Automatic switch for. C. H. North. No. 977,536; Dec. 6; Sp. p. 277; Gaz. vol. 161; p. 40.
Telephone systems, Party-line call-register for automatic. A. H. Dyson. No. 958,863; May 24; Sp. p. 5334; Gaz. vol. 154; p. 897.
Telephone systems, Selecting apparatus for. C. E. Nicholas and W. G. Rich. No. 949,378; Feb. 15; Sp. p. 3365; Gaz. vol. 151; p. 588.
Telephone systems, Selective ringing means for. E. E. Clement. No. 976,123; Nov. 15; Sp. p. 4444; Gaz. vol. 160; p. 753.
Telephone systems, Switch for automatic. A. H. Dyson. No. 975,608; Nov. 15; Sp. p. 3404; Gaz. vol. 160; p. 578.
Telephone transmission system. O. T. Lademan. No. 977,657; Dec. 6; Sp. p. 537; Gaz. vol. 161; p. 81.
Telephone-transmitter. S. A. Duvall. No. 945,023; Jan. 4; Sp. p. 26; Gaz. vol. 150; p. 7.
Telephone-transmitter. E. T. Evans. No. 947,966; Feb. 1; Sp. p. 398; Gaz. vol. 151; p. 63.
Telephone-transmitter. F. Gottschalk. No. 950,229; Feb. 22; Sp. p. 5211; Gaz. vol. 151; p. 913.
Telephone-transmitter. W. Whitten. No. 951,864; Mar. 15; Sp. p. 2857; Gaz. vol. 152; p. 520.
Telephone-transmitter. P. G. Randall. No. 953,102; Mar. 29; Sp. p. 5424; Gaz. vol. 152; p. 993.
Telephone-transmitter. G. N. Quinby, Jr. No. 955,685; Apr. 19; Sp. p. 4315; Gaz. vol. 153; p. 746.
Telephone-transmitter. P. Stragiotti. No. 955,716; Apr. 19; Sp. p. 4386; Gaz. vol. 153; p. 757.
Telephone-transmitter. C. L. Chisholm. No. 964,214; July 12; Sp. p. 2581; Gaz. vol. 156; p. 426.
Telephone-transmitter. W. E. Harkness. (Reissue.) No. 13,146; Aug. 23; Sp. p. 5704; Gaz. vol. 157; p. 983.
Telephone-transmitter. O. M. Leich and N. Pedersen. No. 970,066; Sept. 13; Sp. p. 2002; Gaz. vol. 158; p. 339.
Telephone-transmitter. F. Gottschalk. No. 977,616; Dec. 6; Sp. p. 453; Gaz. vol. 161; p. 68.
Telephone-transmitter. F. Gottschalk. No. 977,617; Dec. 6; Sp. p. 456; Gaz. vol. 161; p. 68.
Telephone-transmitter. F. Gottschalk. No. 977,618; Dec. 6; Sp. p. 458; Gaz. vol. 161; p. 69.
Telephone-transmitter. F. Gottschalk. No. 977,619; Dec. 6; Sp. p. 459; Gaz. vol. 161; p. 69.
Telephone-transmitter. F. Gottschalk. No. 977,620; Dec. 6; Sp. p. 461; Gaz. vol. 161; p. 69.
Telephone-transmitter. F. Gottschalk. No. 977,622; Dec. 6; Sp. p. 466; Gaz. vol. 161; p. 70.
Telephone-transmitter. F. Gottschalk. No. 977,623; Dec. 6; Sp. p. 468; Gaz. vol. 161; p. 70.
Telephone-transmitter. J. Sparks. No. 978,070; Dec. 6; Sp. p. 1391; Gaz. vol. 161; p. 223.
Telephone-transmitter. C. Adams-Randall. No. 980,042; Dec. 27; Sp. p. 5674; Gaz. vol. 161; p. 977.
Telephone transmitter and receiver or testing instrument, Portable. H. F. Thoma, Jr., and C. E. McGrew. No. 946,410; Jan. 11; Sp. p. 3165; Gaz. vol. 150; p. 509.
Telephone-transmitter faces, &c., Manufacture of. V. Olb. No. 968,789; Aug. 30; Sp. p. 6312; Gaz. vol. 157; p. 1101.
Telephone-transmitter mouthpiece. M. M. Wood. No. 952,164; Mar. 15; Sp. p. 3435; Gaz. vol. 152; p. 618.
Telephone-transmitter mouthpiece. M. M. Wood. No. 952,165; Mar. 15; Sp. p. 3437; Gaz. vol. 152; p. 618.
Telephone-transmitter, Multiple. F. W. Wood. No. 945,069; Jan. 4; Sp. p. 131; Gaz. vol. 150; p. 22.
Telephone transmitter, Wireless-. A. A. Jahnke. No. 948,609; Feb. 8; Sp. p. 1754; Gaz. vol. 151; p. 303.
Telephone-transmitters, Covering for mouthpieces of. A. K. Cann. No. 970,015; Sept. 13; Sp. p. 1889; Gaz. vol. 158; p. 321.
Telephone-transmitters, Vibrator for. J. P. Edwards. No. 946,664; Jan. 18; Sp. p. 3697; Gaz. vol. 150; p. 618.
Telephone, Trick-. E. De Moulin. No. 945,708; Jan. 4; Sp. p. 1497; Gaz. vol. 150; p. 234.
Telephone trunk-circuit. C. S. Winston. No. 965,973; Aug. 2; Sp. p. 263; Gaz. vol. 157; p. 44.
Telephone trunking system. C. S. Winston. No. 971,651; Oct. 4; Sp. p. 293; Gaz. vol. 159; p. 53.
Telephone trunking system. C. S. Winston. No. 976,241; Nov. 22; Sp. p. 4772; Gaz. vol. 160; p. 817.
Telephone-wire hanger or support. F. W. Morse. No. 963,056; July 5; Sp. p. 56; Gaz. vol. 156; p. 11.
Telephones, Disinfectant device for. A. W. Lyda and E. C. Robinson. No. 950,937; Mar. 1; Sp. p. 997; Gaz. vol. 152; p. 159.
Telephones, Indicating means for party-line. J. H. Blythe. No. 972,988; Oct. 18; Sp. p. 3266; Gaz. vol. 159; p. 568.
Telephones, Lock-out device for party-line. W. M. Bruce, Jr. No. 972,329; Oct. 11; Sp. p. 1766; Gaz. vol. 159; p. 310.
Telephones, Means for attaching telegraphone control mechanism to. W. H. Thompson. No. 949,690; Feb. 15; Sp. p. 3962; Gaz. vol. 151; p. 690.
Telephones, Selective ringing system for party-line. F. E. Winslow. No. 953,082; Mar. 29; Sp. p. 5363; Gaz. vol. 152; p. 987.
Telephones, Sterilizing and muffling shield for. F. M. Allen. No. 954,909; Apr. 12; Sp. p. 2672; Gaz. vol. 153; p. 452.
Telephonic apparatus. P. M. Oliver. No. 951,695; Mar. 8; Sp. p. 2486; Gaz. vol. 152; p. 432.
Telephonic apparatus. T. C. Rafferty. No. 956,171; Apr. 26; Sp. p. 5386; Gaz. vol. 153; p. 945.
Telephonic apparatus, Long-distance. V. Tardieu. No. 956,228; Apr. 26; Sp. p. 5524; Gaz. vol. 153; p. 964.
Telephonic communication without connecting-wires, Means for effecting. H. G. Matthews. No. 977,462; Dec. 6; Sp. p. 72; Gaz. vol. 161; p. 14.
Telephonic line-connecting system, Self-acting. B. Kugelmann. No. 972,874; Oct. 18; Sp. p. 2972; Gaz. vol. 159; p. 527.
Telephonic transmitter. P. Stragiotti. No. 958,561; May 17; Sp. p. 4678; Gaz. vol. 154; p. 769.
Telephony. R. C. M. Hastings and T. Matheny. No. 951,527; Mar. 8; Sp. p. 2166; Gaz. vol. 152; p. 376.
Telephony, Transmitting system for space. V. H. Laughter. No. 957,852; May 10; Sp. p. 2859; Gaz. vol. 154; p. 489.
Telephony, Wireless. A. Plisnier, Jr. No. 970,850; Sept. 20; Sp. p. 3675; Gaz. vol. 158; p. 628.
Telephotography. O. O. Kruh. No. 968,484; Aug. 23; Sp. p. 5615; Gaz. vol. 157; p. 969.
Telescope. A. Swasey. No. 959,179; May 24; Sp. p. 5998; Gaz. vol. 154; p. 1003.
Telescope adjustment. H. Bausch. No. 975,672; Nov. 15; Sp. p. 3566; Gaz. vol. 160; p. 600.
Telescope, Binocular. A. König. No. 947,971; Feb. 1; Sp. p. 404; Gaz. vol. 151; p. 65.
Telescope, Double. A. Schachenmayr. No. 956,182; Apr. 26; Sp. p. 2426; Gaz. vol. 153; p. 950.
Telescope, Gun-bore sighting-. A. König. No. 953,696; Apr. 5; Sp. p. 35; Gaz. vol. 153; p. 9.
Telescope, Hinged double. R. Straubel. No. 962,929; June 28; Sp. p. 5647; Gaz. vol. 155; p. 989.
Telescope lens system, Galilean-. M. von Rohr. No. 962,920; June 28; Sp. p. 5634; Gaz. vol. 155; p. 986.
Telescope-mount. G. N. Saegmuller. No. 949,780; Feb. 22; Sp. p. 4183; Gaz. vol. 151; p. 756.
Telescope-sight. F. L. Smith. No. 964,703; July 19; Sp. p. 3749; Gaz. vol. 156; p. 623.
Telescopes, Centering-pin cap for. G. W. Loggie. No. 970,631; Sept. 20; Sp. p. 3205; Gaz. vol. 158; p. 551.
Telescopic tube. O. Mackensen. No. 958,752; May 24; Sp. p. 5069; Gaz. vol. 154; p. 857.
Temperature alarm device. A. Goldstein. No. 966,904; Aug. 9; Sp. p. 2323; Gaz. vol. 157; p. 381.
Temperature alarm, High-. W. G. Pierce. No. 968,406; Aug. 23; Sp. p. 5471; Gaz. vol. 157; p. 942.
Temperature-compensating mechanism. A. Bonnet. No. 968,235; Aug. 23; Sp. p. 5123; Gaz. vol. 157; p. 883.
Temperature fluctuations, Apparatus for controlling. J. E. Hedin. No. 949,825; Feb. 22; Sp. p. 4283; Gaz. vol. 151; p. 772.
Temperature-indicating instrument. A. N. Ozias. No. 973,963; Oct. 25; Sp. p. 5335; Gaz. vol. 159; p. 927.
Temperature-indicating system. G. W. Levengood. No. 966,224; Aug. 2; Sp. p. 817; Gaz. vol. 157; p. 130.
Temperature-regulating system. W. A. Sheldon. No. 963,255; July 5; Sp. p. 587; Gaz. vol. 156; p. 81.
Temperature-regulator. V. F. Davis. No. 969,848; Sept. 13; Sp. p. 1535; Gaz. vol. 158; p. 263.
Temperature-regulator motor. C. E. Jewell. No. 951,732; Mar. 8; Sp. p. 2560; Gaz. vol. 152; p. 444.
Temperature-regulator, Thermostatic. D. O. Nation. No. 958,157; May 17; Sp. p. 3727; Gaz. vol. 154; p. 630.
Temperatures, Generating high. W. C. Finck. No. 980,087; Dec. 27; Sp. p. 5780; Gaz. vol. 161; p. 991.
Tempering. W. E. Nickerson. No. 971,628; Oct. 4; Sp. p. 253; Gaz. vol. 159; p. 45.
Tempering compound. G. Dawson. No. 946,838; Jan. 18; Sp. p. 4104; Gaz. vol. 150; p. 679.
Templet and gage, Combined. J. Sherry. No. 947,422; Jan. 25; Sp. p. 5384; Gaz. vol. 150; p. 902.
Templet or gage. E. J. P. Slotta. No. 962,171; June 21; Sp. p. 4062; Gaz. vol. 155; p. 705.
Tennis-court marker. E. A. Robinson. No. 961,020; June 7; Sp. p. 1570; Gaz. vol. 155; p. 263.
Tennis-court marker. N. Halsey. No. 975,948; Nov. 15; Sp. p. 4105; Gaz. vol. 160; p. 693.

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Tennis-racket. C. B. Mueller. No. 971,773; Oct. 4; Sp. p. 549; Gaz. vol. 159; p. 96.
Tenoning and pointing machine. F. C. Miller. No. 954,985; Apr. 12; Sp. p. 2816; Gaz. vol. 153; p. 477.
Tenoning-machine. J. Ojanguren. No. 952,838; Mar. 22; Sp. p. 4873; Gaz. vol. 152; p. 877.
Tenpin-ball. M. Cavanagh. No. 950,838; Mar. 1; Sp. p. 807; Gaz. vol. 152; p. 129.
Tenpin-bases, Machine for truing. E. and J. Adell. No. 947,708; Jan. 25; Sp. p. 5994; Gaz. vol. 150; p. 998.
Tenpin-setter. J. C. McFarland. No. 975,445; Nov. 15; Sp. p. 3051; Gaz. vol. 160; p. 521.
Tension-controlling device. S. W. Wardwell. No. 949,407; Feb. 15; Sp. p. 3434; Gaz. vol. 151; p. 599.
Tension device. S. W. Wardwell. No. 945,880; Jan. 11; Sp. p. 1948; Gaz. vol. 150; p. 324.
Tension device, Spring-. A. H. Kirk. No. 964,651; July 19; Sp. p. 3534; Gaz. vol. 156; p. 605.
Tension regulator, Spring-. B. Dysart. No. 973,641; Oct. 25; Sp. p. 4688; Gaz. vol. 159; p. 814.
Tensioning device, Belt-. F. Windhoff. No. 945,661; Jan. 4; Sp. p. 1404; Gaz. vol. 150; p. 219.
Tensioning device particularly applicable to clutches, Automatic. J. E. I. Bandoux. No. 945,301; Jan. 4; Sp. p. 642; Gaz. vol. 150; p. 100.
Tent. G. D. George. No. 947,281; Jan. 25; Sp. p. 5051; Gaz. vol. 150; p. 854.
Tent. G. D. George No. 947,407; Jan. 25; Sp. p. 5357; Gaz. vol. 150; p. 898.
Tent. L. E. Hohl and C. B. Franke. No. 950,394; Feb. 22; Sp. p. 5518; Gaz. vol. 151; p. 967.
Tent. F. A. Leavitt. No. 964,796; July 19; Sp. p. 3941; Gaz. vol. 156; p. 655.
Tent. O. E. Hollister. No. 971,613; Oct. 4; Sp. p. 226; Gaz. vol. 159; p. 40.
Tent, Folding. S. Takacs. No. 964,333; July 12; Sp. p. 2829; Gaz. vol. 156; p. 466.
Tent-frame. A. Juin. No. 957,215; May 10; Sp. p. 1546; Gaz. vol. 154; p. 274.
Tent-frame. G. Huebner. No. 974,491; Nov. 1; Sp. p. 959; Gaz. vol. 160; p. 142.
Tent, Knockdown. M. H. Cummings. No. 970,612; Sept. 20; Sp. p. 3123; Gaz. vol. 158; p. 544.
Tent-poles, Device for attaching stay-ropes to. J. E. Dilg. No. 960,849; June 7; Sp. p. 1228; Gaz. vol. 155; p. 205.
Tent, Shelter-. N. D. Anderson. No. 958,066; May 17; Sp. p. 3541; Gaz. vol. 154; p. 597.
Tent, Shelter or sleeping. F. Searle. No. 979,037; Dec. 20; Sp. p. 3499; Gaz. vol. 161; p. 612.
Tent, Suspended. C. E. Mark. No. 961,704; June 14; Sp. p. 3011; Gaz. vol. 155; p. 521.
Tentering-machine. J. J. Hoey. No. 974,271; Nov. 1; Sp. p. 427; Gaz. vol. 160; p. 63.
Tentering-machines, Feeding device for. B. Parkinson. No. 961,526; June 14; Sp. p. 2657; Gaz. vol. 155; p. 462.
Terminal casing. H. L. Wallau and E. E. Noble. No. 969,816; Sept. 13; Sp. p. 1460; Gaz. vol. 158; p. 252.
Terminal clamp. H. F. Richter. No. 948,596; Feb. 8; Sp. p. 1726; Gaz. vol. 151; p. 299.
Terminal connection. E. P. Jahn. No. 968,950; Aug. 30; Sp. p. 6630; Gaz. vol. 157; p. 1155.
Terminal connection. O. Thieme. No. 974,449; Nov. 1; Sp. p. 857; Gaz. vol. 160; p. 126.
Terminal fastening. A. Schmidt. No. 976,100; Nov. 15; Sp. p. 4401; Gaz. vol. 160; p. 746.
Terminal passenger-station and other railway structure. A. M. Irving. No. 953,169; Mar. 29; Sp. p. 5570; Gaz. vol. 152; p. 1015.
Terret and hook, Drop. W. A. Schleicher. No. 973,980; Oct. 25; Sp. p. 5367; Gaz. vol. 159; p. 934.
Test-clip. A. T. and C. H. Luther. No. 953,678; Mar. 29; Sp. p. 6672; Gaz. vol. 152; p. 1188.
Test device. A. H. Adams. No. 966,728; Aug. 9; Sp. p. 1915; Gaz. vol. 157; p. 324.
Testing appliance. R. Straubel. No. 962,175; June 21; Sp. p. 4070; Gaz. vol. 155; p. 706.
Testing-clamp. M. J. Gray. No. 971,191; Sept. 27; Sp. p. 4374; Gaz. vol. 158; p. 768.
Testing device. J. Muchka. No. 961,419; June 14; Sp. p. 2414; Gaz. vol. 155; p. 426.
Testing device for fabrics, rubber, metal, &c., Universal. A. D. Cillard. No. 969,089; Aug. 30; Sp. p. 6908; Gaz. vol. 157; p. 1203.
Testing-gage and pump, Combination. W. H. Rowswell. No. 975,638; Nov. 15; Sp. p. 3470; Gaz. vol. 160; p. 588.
Testing-machine. J. V. Reynders. No. 955,202; Apr. 19; Sp. p. 3250; Gaz. vol. 153; p. 582.
Testing-machine. F. D. Carney and C. J. Gadd. No. 955,250; Apr. 19; Sp. p. 3361; Gaz. vol. 153; p. 599.
Testing-machine. F. D. Carney and C. J. Gadd. No. 955,630; Apr. 19; Sp. p. 4177; Gaz. vol. 153; p. 728.
Testing-machine. J. W. Carter. No. 968,325; Aug. 23; Sp. p. 5310; Gaz. vol. 157; p. 915.
Testing-machine. P. A. Cuenot. No. 973,858; Oct. 25; Sp. p. 5126; Gaz. vol. 159; p. 890.
Testing set. C. A. Hoxie. No. 952,741; Mar. 22; Sp. p. 4661; Gaz. vol. 152; p. 843.
Tetrachlor-indigo and making same. P. Julius, V. Villiger, and P. Nawiasky. No. 955,410; Apr. 19; Sp. p. 3710; Gaz. vol. 153; p. 652.
Tetramethylendiamin, Making. F. Hofmann and C. Coutelle. No. 965,903; Aug. 2; Sp. p. 123; Gaz. vol. 157; p. 21.
Textile-conditioning apparatus. I. E. Palmer. No. 959,067; May 24; Sp. p. 5766; Gaz. vol. 154; p. 966.
Textile fabric. G. H. Smith. No. 963,014; June 28; Sp. p. 5808; Gaz. vol. 155; p. 1017.
Textile fibers, Obtaining. J. E. Pfiel. No. 972,403; Oct. 11; Sp. p. 1921; Gaz. vol. 159; p. 338.
Textile material in lengths, Apparatus for treating. I. E. Palmer. No. 971,778; Oct. 4; Sp. p. 559; Gaz. vol. 159; p. 98.
Textile materials, Apparatus for smoothing hanks of. A. Clavel. No. 972,060; Oct. 4; Sp. p. 1198; Gaz. vol. 159; p. 202.
Thawing device for drip-pipes. E. H. Gold. No. 978,150; Dec. 13; Sp. p. 1591; Gaz. vol. 161; p. 282.
Thawing-furnace, Portable. T. D. Bausher. No. 971,105; Sept. 27; Sp. p. 4188; Gaz. vol. 158; p. 739.
Thawing-tool, Steam. G. H. Finnegan. No. 958,737; May 24; Sp. p. 5028; Gaz. vol. 154; p. 852.
Theatrical apparatus. J. F. Sullivan. No. 974,203; Nov. 1; Sp. p. 223; Gaz. vol. 160; p. 37.
Theatrical appliance. H. Rochez. No. 950,786; Mar. 1; Sp. p. 702; Gaz. vol. 152; p. 112.
Theatrical appliance. R. J. Denny. No. 971,834; Oct. 4; Sp. p. 673; Gaz. vol. 159; p. 118.
Theatrical device. G. A. Byrne. No. 966,996; Aug. 9; Sp. p. 2512; Gaz. vol. 157; p. 413.
Theatrical machinery. G. Garnier and C. Grobon. No. 960,888; June 7; Sp. p. 1305; Gaz. vol. 155; p. 219.
Thermal cut-out or switch, Safety. J. W. Fowle. No. 946,597; Jan. 18; Sp. p. 3542; Gaz. vol. 150; p. 596.
Thermal regulation, Method of and apparatus for. A. G. Waterhouse. No. 973,150; Oct. 18; Sp. p. 3616; Gaz. vol. 159; p. 623.
Thermo-electric couple. A. L. Marsh. No. 971,767; Oct. 4; Sp. p. 538; Gaz. vol. 159; p. 94.
Thermo-electric regulator. W. E. Mack. No. 961,145; June 14; Sp. p. 1821; Gaz. vol. 155; p. 330.
Thermo-electrostat. R. W. King. No. 974,157; Nov. 1; Sp. p. 100; Gaz. vol. 160; p. 20.
Thermocauter. J. P. Müller. No. 946,556; Jan. 18; Sp. p. 3470; Gaz. vol. 150; p. 584.
Thermodynamic machine. J. E. Haennig. No. 977,731; Dec. 6; Sp. p. 687; Gaz. vol. 161; p. 107.
Thermodynamic motor. P. K. Stern. No. 975,651; Nov. 15; Sp. p. 3493; Gaz. vol. 160; p. 592.
Thermograph and hygrograph, Combination. A. G. McAdie. No. 974,684; Nov. 1; Sp. p. 1374; Gaz. vol. 160; p. 213.
Thermometer. W. Jandus. No. 969,106; Aug. 30; Sp. p. 6946; Gaz. vol. 157; p. 1209.
Thermometer. F. S. Dickinson. No. 978,141; Dec. 13; Sp. p. 1578; Gaz. vol. 161; p. 280.
Thermometer-case. F. L. Ruddy. No. 973,307; Oct. 18; Sp. p. 3957; Gaz. vol. 159; p. 677.
Thermometer-dial. C. H. Myers. No. 955,091; Apr. 12; Sp. p. 3012; Gaz. vol. 153; p. 511.
Thermometer, Resistance-. E. F. Northrup, M. E. Leeds, and C. R. Cary. No. 955,191; Apr. 19; Sp. p. 3218; Gaz. vol. 153; p. 578.
Thermostat. T. O. Edmond. No. 950,042; Feb. 22; Sp. p. 4830; Gaz. vol. 151; p. 849.
Thermostat. W. Enterline. No. 960,860; June 7; Sp. p. 1250; Gaz. vol. 155; p. 209.
Thermostat. M. Ramassot. No. 961,014; June 7; Sp. p. 1558; Gaz. vol. 155; p. 261.
Thermostat. R. H. Waite. No. 975,909; Nov. 15; Sp. p. 4028; Gaz. vol. 160; p. 679.
Thermostat. F. W. Schmidt. No. 976,749; Nov. 22; Sp. p. 5848; Gaz. vol. 160; p. 990.
Thermostat-adjuster. Automatic. J. W. Frost. No. 950,548; Mar. 1; Sp. p. 182; Gaz. vol. 152; p. 31.
Thermostat, Electric. F. W. Harris. No. 963,763; July 12; Sp. p. 1625; Gaz. vol. 156; p. 274.
Thermostat, Pneumatic. C. E. Bonnet. No. 974,743; Nov. 1; Sp. p. 1510; Gaz. vol. 160; p. 231.
Thill-coupling. F. A. Strodel. No. 950,733; Mar. 1; Sp. p. 588; Gaz. vol. 152; p. 93.
Thill-coupling. A. H. Worrest. No. 952,025; Mar. 15; Sp. p. 3185; Gaz. vol. 152; p. 572.
Thill-coupling. A. C. Scheele. No. 957,002; May 3; Sp. p. 1094; Gaz. vol. 154; p. 171.
Thill-coupling. R. Coates. No. 969,937; Sept. 13; Sp. p. 1711; Gaz. vol. 158; p. 294.
Thill-coupling. W. A. Buchanan. No. 972,096; Oct. 4; Sp. p. 1257; Gaz. vol. 159; p. 213.
Thill-coupling. J. F. Jaquet. No. 974,387; Nov. 1; Sp. p. 693; Gaz. vol. 160; p. 105.
Thill-coupling. J. Hofstetter. No. 974,792; Nov. 8; Sp. p. 1615; Gaz. vol. 160; p. 272.
Thill-iron. T. H. Schlarmann. No. 957,107; May 3; Sp. p. 1298; Gaz. vol. 154; p. 207.
Thill-strap fastener. R. C. Fetzer. No. 949,175; Feb. 15; Sp. p. 2930; Gaz. vol. 151; p. 519.
Thill-support. F. B. Williams. No. 970,285; Sept. 13; Sp. p. 2448; Gaz. vol. 158; p. 412.
Thimble, Attachment-. J. T. Ohman. No. 967,960; Aug. 23; Sp. p. 4490; Gaz. vol. 157; p. 790.

Thread-board. W. D. Aldrich. No. 953,732; Apr. 5; Sp. p. 97; Gaz. vol. 153; p. 20.
Thread-coating machine. J. L. Rollins. No. 962,260; June 21; Sp. p. 4241; Gaz. vol. 155; p. 734.
Thread-cutter. A. Le Massena. No. 966,931; Aug. 9; Sp. p. 2377; Gaz. vol. 157; p. 390.
Thread-cutting die. W. Scott. No. 968,701; Aug. 30; Sp. p. 6139; Gaz. vol. 157; p. 1071.
Thread-cutting die. G. E. Hill. No. 971,748; Oct. 4; Sp. p. 504; Gaz. vol. 159; p. 87.
Thread-cutting mechanism. H. W. Oster. No. 977,540; Dec. 6; Sp. p. 287; Gaz. vol. 161; p. 42.
Thread-cutting tool. J. B. Phillips. No. 948,706; Feb. 8; Sp. p. 1963; Gaz. vol. 151; p. 337.
Thread-cutting tool, Taper-. B. Borden. No. 950,655; Mar. 1; Sp. p. 414; Gaz. vol. 152; p. 67.
Thread-guide. I. E. Palmer. No. 952,756; Mar. 22; Sp. p. 4693; Gaz. vol. 152; p. 848.
Thread-guide. I. E. Palmer. No. 958,760; May 24; Sp. p. 5088; Gaz. vol. 154; p. 860.
Thread-holder. W. J. Greene. No. 947,517; Jan. 25; Sp. p. 5626; Gaz. vol. 150; p. 934.
Thread-holder. J. Rosenberg. No. 947,649; Jan. 25; Sp. p. 5900; Gaz. vol. 150; p. 979.
Thread holder, Bobbin-. E. G. Cone. No. 954,562; Apr. 12; Sp. p. 1849; Gaz. vol. 153; p. 331.
Thread machines, Roll for wool-. C. S. Snyder. No. 946,077; Jan. 11; Sp. p. 2364; Gaz. vol. 150; p. 392.
Thread or yarn cleaning device. R. H. Cook. No. 945,447; Jan. 4; Sp. p. 945; Gaz. vol. 150; p. 148.
Thread-protector. P. J. Shrum. No. 966,610; Aug. 9; Sp. p. 1663; Gaz. vol. 157; p. 284.
Thread-selecting device. H. B. Colman. No. 977,166; Nov. 29; Sp. p. 6837; Gaz. vol. 160; p. 1161.
Thread-trimming mechanism. H. W. Slater. No. 957,265; May 10; Sp. p. 1663; Gaz. vol. 154; p. 292.
Threads, Apparatus for use in the manufacture of artificial-silk and like. J. Clayton. No. 979,434; Dec. 27; Sp. p. 4341; Gaz. vol. 161; p. 770.
Threads, Lustering silk. E. Pohl. No. 947,027; Jan. 18; Sp. p. 4512; Gaz. vol. 150; p. 743.
Threads, &c., Manufacturing masses for making artificial. R. Linkmeyer. No. 979,013; Dec. 20; Sp. p. 3448; Gaz. vol. 161; p. 605.
Threads off tulle, lace, embroidery, and the like, Apparatus for cutting or shaving. O. C. Levray. No. 946,904; Jan. 18; Sp. p. 4270; Gaz. vol. 150; p. 701.
Threads or yarns from warp-beams, Finishing. G. A. Fredenburgh. No. 972,760; Oct. 11; Sp. p. 2712; Gaz. vol. 159; p. 461.
Threads, Tool for restoring damaged. A. G. Heggen. No. 952,042; Mar. 15; Sp. p. 3214; Gaz. vol. 152; p. 578.
Threads, wires, strips, &c., Apparatus for testing. F. Zedlitz. No. 946,743; Jan. 18; Sp. p. 3860; Gaz. vol. 150; p. 644.
Threading device, Left-hand-. H. M. Hunter. No. 976,880; Nov. 29; Sp. p. 6158; Gaz. vol. 160; p. 1061.
Threading-machine. H. W. Oster. No. 965,402; July 26; Sp. p. 5180; Gaz. vol. 156; p. 889.
Threading-machine. H. E. Gross. No. 979,152; Dec. 20; Sp. p. 3784; Gaz. vol. 161; p. 655.
Three-horse evener. T. S. Moffett. No. 950,943; Mar. 1; Sp. p. 1010; Gaz. vol. 152; p. 161.
Thresher and separator. J. M. Swenson. No. 953,068; Mar. 29; Sp. p. 5340; Gaz. vol. 152; p. 982.
Thresher and stalk-cutter, Combined vine-. C. Bozile. No. 975,603; Nov. 15; Sp. p. 3390; Gaz. vol. 160; p. 576.
Thresher-concave. M. Flynn. No. 952,795; Mar. 22; Sp. p. 4783; Gaz. vol. 152; p. 861.
Thresher, Pea-. E. O. Blackwell. No. 948,130; Feb. 1; Sp. p. 720; Gaz. vol. 151; p. 118.
Thresher, Pea-. R. E. Wright. No. 978,529; Dec. 13; Sp. p. 2399; Gaz. vol. 161; p. 413.
Threshing cylinders and concaves, Toothed bar for. C. G. Callan. No. 978,692; Dec. 13; Sp. p. 2755; Gaz. vol. 161; p. 470.
Threshing-machine. B. A. Amble. No. 949,049; Feb. 15; Sp. p. 2683; Gaz. vol. 151; p. 478.
Threshing-machine. A. W. Cameron. No. 952,700; Mar. 22; Sp. p. 4571; Gaz. vol. 152; p. 830.
Threshing-machine. W. A. Hollingsworth. No. 953,833; Apr. 5; Sp. p. 299; Gaz. vol. 153; p. 53.
Threshing-machine. W. J. Hawkins. No. 955,511; Apr. 19; Sp. p. 3917; Gaz. vol. 153; p. 687.
Threshing-machine. S. Herr. No. 961,775; June 21; Sp. p. 3173; Gaz. vol. 155; p. 569.
Threshing-machine. H. T. Seburn. No. 963,080; July 5; Sp. p. 109; Gaz. vol. 156; p. 20.
Threshing-machine. J. H. Freeze. No. 963,887; July 12; Sp. p. 1923; Gaz. vol. 156; p. 316.
Threshing-machine. G. E. M. Guy-Bernard. No. 964,966; July 19; Sp. p. 4280; Gaz. vol. 156; p. 714.
Threshing-machine. O. Thompson. No. 970,973; Sept. 20; Sp. p. 3898; Gaz. vol. 158; p. 666.
Threshing-machine. C. L. Bean. No. 971,239; Sept. 27; Sp. p. 4480; Gaz. vol. 158; p. 784.
Threshing-machine. R. S. Jaques. No. 976,263; Nov. 22; Sp. p. 4834; Gaz. vol. 160; p. 826.
Threshing-machine. G. Sipler. No. 976,306; Nov. 22; Sp. p. 4929; Gaz. vol. 160; p. 840.
Threshing-machine. W. G. Stewart. No. 978,072; Dec. 6; Sp. p. 1395; Gaz. vol. 161; p. 224.
Threshing-machine. H. Ewoldt. No. 978,570; Dec. 13; Sp. p. 2509; Gaz. vol. 161; p. 428.
Threshing-machine and vehicle coupling. J. E. Blom. No. 967,713; Aug. 16; Sp. p. 3986; Gaz. vol. 157; p. 683.
Threshing-machine band-cutter. J. T. Hanson. No. 970,920; Sept. 20; Sp. p. 3806; Gaz. vol. 158; p. 649.
Threshing-machine band-cutter and feeder. E. McReynolds and P. S. Graham. No. 959,432; May 24; Sp. p. 6478; Gaz. vol. 154; p. 1085.
Threshing-machine beater. J. F. Hines and G. Feller. No. 947,157; Jan. 18; Sp. p. 4745; Gaz. vol. 150; p. 782.
Threshing-machine beater. F. Eves. No. 951,270; Mar. 8; Sp. p. 1627; Gaz. vol. 152; p. 290.
Threshing-machine belt reel and guide. J. Bjornlie. No. 950,462; Feb. 22; Sp. p. 5641; Gaz. vol. 151; p. 989.
Threshing-machine concave. W. L. Hay. No. 948,277; Feb. 1; Sp. p. 1013; Gaz. vol. 151; p. 166.
Threshing-machine-concave attachment. R. C. Knaak. No. 953,845; Apr. 5; Sp. p. 326; Gaz. vol. 153; p. 58.
Threshing-machine feeder. F. Hamachek. No. 952,520; Mar. 22; Sp. p. 4162; Gaz. vol. 152; p. 766.
Threshing-machine feeder. C. Barnhart. No. 955,042; Apr. 12; Sp. p. 2929; Gaz. vol. 153; p. 496.
Threshing-machine feeder. H. J. Boyer. No. 955,046; Apr. 12; Sp. p. 2937; Gaz. vol. 153; p. 497.
Threshing-machine feeder. J. S. Walch. No. 967,690; Aug. 16; Sp. p. 3932; Gaz. vol. 157; p. 675.
Threshing-machine feeder. J. Gayraud. No. 973,496; Oct. 25; Sp. p. 4374; Gaz. vol. 159; p. 765.
Threshing-machine feeding attachment. K. E. Ose. No. 945,283; Jan. 4; Sp. p. 575; Gaz. vol. 150; p. 94.
Threshing machine, Flax-. J. D. Jefferson. No. 951,125; Mar. 8; Sp. p. 1339; Gaz. vol. 152; p. 244.
Threshing-machine frame. E. J. Vraalstad. No. 947,137; Jan. 18; Sp. p. 4697; Gaz. vol. 150; p. 775.
Threshing-machine frame. J. B. Bartholomew. No. 958,213; May 17; Sp. p. 3835; Gaz. vol. 154; p. 648.
Threshing-machine screen. S. P. Murphy and D. H. Seale. No. 966,578; Aug. 9; Sp. p. 1606; Gaz. vol. 157; p. 273.
Threshing machine, Seed-. D. Hummel. No. 959,346; May 24; Sp. p. 6333; Gaz. vol. 154; p. 1059.
Threshing-machine self-feeder and band-cutter. R. and B. Crain. No. 977,599; Dec. 6; Sp. p. 424; Gaz. vol. 161; p. 62.
Threshing-machine-separator screen. N. N. Nelson. No. 945,187; Jan. 4; Sp. p. 370; Gaz. vol. 150; p. 62.
Threshing-machines, Knife-grinding attachment for. E. Beeson. No. 964,839; July 19; Sp. p. 4027; Gaz. vol. 156; p. 670.
Threshing-machines, Separating-grate for. F. F. Landis. No. 959,561; May 31; Sp. p. 6796; Gaz. vol. 154; p. 1156.
Threshold, Illuminated. C. B. Ricketts. No. 958,542; May 17; Sp. p. 4640; Gaz. vol. 154; p. 763.
Throttle. J. Peterson. No. 965,322; July 26; Sp. p. 5014; Gaz. vol. 156; p. 863.
Throttle-closing and brake-controlling device, Automatic. S. T. Nelson, H. B. Halvorsen, and F. A. Halleck. No. 945,406; Jan. 4; Sp. p. 872; Gaz. vol. 150; p. 135.
Throw-out switch. W. H. Tucker and W. F. Waddell. No. 973,322; Oct. 18; Sp. p. 3988; Gaz. vol. 159; p. 683.
Thumb-sucking preventer. A. B. Crandall. No. 969,942; Sept. 13; Sp. p. 1727; Gaz. vol. 158; p. 296.
Ticket-case. V. D. Hitchings and E. W. Face. No. 961,610; June 14; Sp. p. 2832; Gaz. vol. 155; p. 490.
Ticket-case. P. E. Crabtree. No. 969,135; Aug. 30; Sp. p. 7011; Gaz. vol. 157; p. 1219.
Ticket-clip. W. N. White. No. 951,925; Mar. 15; Sp. p. 2991; Gaz. vol. 152; p. 541.
Ticket-dispenser. C. H. Crawford. No. 955,385; Apr. 19; Sp. p. 3655; Gaz. vol. 153; p. 643.
Ticket folding and cutting machine. F. Marcus. No. 952,456; Mar. 22; Sp. p. 4024; Gaz. vol. 152; p. 745.
Ticket-holder. H. P. Dooley. No. 946,341; Jan. 11; Sp. p. 2925; Gaz. vol. 150; p. 485.
Ticket-holder. C. T. Raschick. No. 946,986; Jan. 18; Sp. p. 4423; Gaz. vol. 150; p. 728.
Ticket-holder. H. Hirsch. No. 961,075; June 7; Sp. p. 1694; Gaz. vol. 155; p. 281.
Ticket-holder. G. L. Hackett. No. 963,760; July 12; Sp. p. 1619; Gaz. vol. 156; p. 273.
Ticket-holder. R. F. Polski. No. 976,832; Nov. 22; Sp. p. 6028; Gaz. vol. 160; p. 1018.
Ticket-holder. O. Oehring. No. 978,052; Dec. 6; Sp. p. 1353; Gaz. vol. 161; p. 217.
Ticket holder, Car-. L. Inglee. No. 953,953; Apr. 5; Sp. p. 530; Gaz. vol. 153; p. 96.
Ticket holder, Car-. J. H. Baker and J. A. French. No. 958,577; May 17; Sp. p. 4713; Gaz. vol. 154; p. 774.
Ticket machine, Pin-. J. P. Kuhns. No. 953,472; Mar. 29; Sp. p. 6227; Gaz. vol. 152; p. 1117.
Ticket, Mileage-. L. Smith. No. 953,672; Mar. 29; Sp. p. 6662; Gaz. vol. 152; p. 1186.
Ticket or advertising and price card holder, Milk-. C. I. Watkins. No. 973,731; Oct. 25; Sp. p. 4872; Gaz. vol. 159; p. 847.
Ticket or tag hook. F. S. Webster. No. 972,043; Oct. 4; Sp. p. 1165; Gaz. vol. 159; p. 196.
Ticket, Pin-. L. Baum. No. 972,791; Oct. 11; Sp. p. 2769; Gaz. vol. 159; p. 471.

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Ticket, Railway-. T. C. Davidson. No. 951,632; Mar. 8; Sp. p. 2372; Gaz. vol. 152; p. 411.
Ticket, Railway-. W. S. Parker. No. 959,879; May 31; Sp. p. 7468; Gaz. vol. 154; p. 1262.
Ticket receipt, Railway-. W. H. Barnes. No. 952,780; Mar. 22; Sp. p. 4757; Gaz. vol. 152; p. 857.
Ticket-receptacle indicator. H. J. Müller. No. 953,751; Apr. 5; Sp. p. 139; Gaz. vol. 153; p. 27.
Ticket-seller. K. Heppe. No. 946,358; Jan. 11; Sp. p. 2955; Gaz. vol. 150; p. 491.
Ticket, Transfer-. H. T. Steinecke. No. 950,062; Feb. 22; Sp. p. 4860; Gaz. vol. 151; p. 855.
Ticket, Transfer-. C. M. B. Schwartz. No. 961,028; June 7; Sp. p. 1585; Gaz. vol. 155; p. 266.
Ticket, Transfer-. H. J. Smith. No. 978,407; Dec. 13; Sp. p. 2141; Gaz. vol. 161; p. 373.
Tickets, checks, and the like, Device for holding and severing. T. A. Rousseau. No. 974,830; Nov. 8; Sp. p. 1692; Gaz. vol. 160; p. 284.
Tide and wave power. E. Fuchs. No. 968,930; Aug. 30; Sp. p. 6592; Gaz. vol. 157; p. 1148.
Tide-motor. N. S. Edens. No. 953,600; Mar. 29; Sp. p. 6500; Gaz. vol. 152; p. 1162.
Tide-motor. D. M. Barr. No. 971,343; Sept. 27; Sp. p. 4671; Gaz. vol. 158; p. 817.
Tide-motor. G. Quedens. No. 975,157; Nov. 8; Sp. p. 2441; Gaz. vol. 160; p. 397.
Tide-motor. E. L. and M. C. Sharpneck. No. 975,726; Nov. 15; Sp. p. 3654; Gaz. vol. 160; p. 616.
Tide-motor. G. Degagne. No. 978,117; Dec. 6; Sp. p. 1498; Gaz. vol. 161; p. 241.
Tide-water motor. M. Logan. No. 973,869; Oct. 25; Sp. p. 5150; Gaz. vol. 159; p. 895.
Tie: *See* Bag-tie; Bale-tie; Bale or package tie; Baling-tie; Blade-tie; Bow-tie; Building-block tie; Bundle or package tie; Concrete tie; Concrete railway-tie; Cross-tie; Fence-tie; Halter-tie; Metallic tie; Mold-tie; Neck-tie; Package-tie; Rail-tie; Railway-tie; Railway armored wood cross-tie; Railway cross-tie; Shoe-tie; Steel tie; Stopper-tie; Wall-tie; Yoke-tie.
Tie and lumber hook. H. T. Peterson. No. 945,864; Jan. 11; Sp. p. 1919; Gaz. vol. 150; p. 319.
Tie attachment. J. H. Goad. No. 968,044; Aug. 23; Sp. p. 4683; Gaz. vol. 157; p. 818.
Tie-clasp. A. M. Banta. No. 949,516; Feb. 15; Sp. p. 3639; Gaz. vol. 151; p. 634.
Tie extractor and replacer. A. P. Stephens. No. 952,378; Mar. 15; Sp. p. 3855; Gaz. vol. 152; p. 690.
Tie-holding device. J. T. Moore. No. 978,618; Dec. 13; Sp. p. 2614; Gaz. vol. 161; p. 446.
Tie-jack. C. Berkner. No. 947,071; Jan. 18; Sp. p. 4583; Gaz. vol. 150; p. 756.
Tie-plate. W. McKee. No. 947,618; Jan. 25; Sp. p. 5834; Gaz. vol. 150; p. 969.
Tie-plate. E. H. Bell. No. 948,127; Feb. 1; Sp. p. 715; Gaz. vol. 151; p. 117.
Tie-plate. R. Law. No. 949,907; Feb. 22; Sp. p. 4487; Gaz. vol. 151; p. 801.
Tie-plate. W. McKee. No. 954,538; Apr. 12; Sp. p. 1797; Gaz. vol. 153; p. 323.
Tie-plate. W. McKee. No. 956,499; Apr. 26; Sp. p. 6105; Gaz. vol. 153; p. 1057.
Tie-plate. W. McKee. No. 958,271; May 17; Sp. p. 3958; Gaz. vol. 154; p. 666.
Tie-plate. P. Laden. No. 960,964; June 7; Sp. p. 1447; Gaz. vol. 155; p. 243.
Tie-plate. W. L. De Remer. No. 962,750; June 28; Sp. p. 5311; Gaz. vol. 155; p. 927.
Tie-plate. W. L. De Remer. No. 962,751; June 28; Sp. p. 5312; Gaz. vol. 155; p. 928.
Tie-plate. L. Lebovitz. No. 968,960; Aug. 30; Sp. p. 6649; Gaz. vol. 157; p. 1158.
Tie-plate. A. J. Neafie. No. 977,121; Nov. 29; Sp. p. 6734; Gaz. vol. 160; p. 1146.
Tie-plate and anticreeper, Combination. P. W. Moore. No. 965,725; July 26; Sp. p. 5899; Gaz. vol. 156; p. 1002.
Tie-plate and rail-anchor, Combination. P. W. Moore. No. 955,529; Apr. 19; Sp. p. 3949; Gaz. vol. 153; p. 693.
Tie-plate and rail anticreeper, Combined. M. S. Clarke and E. L. Adreon, Jr. No. 953,193; Mar. 29; Sp. p. 5630; Gaz. vol. 152; p. 1023.
Tie-plate and rail-brace. V. G. Banks. No. 970,414; Sept. 13; Sp. p. 2689; Gaz. vol. 158; p. 454.
Tie-plate and rail-spacing device. J. Klinkhammer. No. 945,172; Jan. 4; Sp. p. 338; Gaz. vol. 150; p. 57.
Tie-plate washer. J. W. Kendrick. No. 952,568; Mar. 22; Sp. p. 4279; Gaz. vol. 152; p. 784.
Tie-plates, Apparatus for making. W. Goldie, Jr. No. 968,148; Aug. 23; Sp. p. 4926; Gaz. vol. 157; p. 853.
Tie-plates, Manufacture of. W. Goldie, Jr. No. 964,511; July 19; Sp. p. 3214; Gaz. vol. 156; p. 556.
Tie-plates or the like, Manufacture of. J. E. York. No. 961,666; June 14; Sp. p. 2944; Gaz. vol. 155; p. 509.
Tie-plug machine. H. G. Smart. No. 956,207; Apr. 26; Sp. p. 5467; Gaz. vol. 153; p. 957.
Tie-puller. J. R. Smith. No. 977,975; Dec. 6; Sp. p. 1202; Gaz. vol. 161; p. 192.
Tie-spacing jack. L. P. Puckett. No. 960,398; June 7; Sp. p. 331; Gaz. vol. 155; p. 55.
Tie-tamping machine. J. Iliff. No. 971,504; Sept. 27; Sp. p. 4961; Gaz. vol. 158; p. 869.
Ties, Metallic support for wood. J. H. Weidman. No. 974,321; Nov. 1; Sp. p. 564; Gaz. vol. 160; p. 82.
Ties, Method of and apparatus for forming rail-seats in. W. H. Morgan. No. 974,174; Nov. 1; Sp. p. 144; Gaz. vol. 160; p. 26.
Tightening device. C. T. Cunnius. No. 961,688; June 14; Sp. p. 2983; Gaz. vol. 155; p. 516.
Tile. F. M. Sawyer. No. 964,059; July 12; Sp. p. 2278; Gaz. vol. 156; p. 375.
Tile. J. A. Jones. No. 968,162; Aug. 23; Sp. p. 4971; Gaz. vol. 157; p. 858.
Tile. J. B. Dunn. No. 972,519; Oct. 11; Sp. p. 2194; Gaz. vol. 159; p. 379.
Tile. J. Freund. No. 979,280; Dec. 20; Sp. p. 4056; Gaz. vol. 161; p. 698.
Tile and saggar, Combined. G. E. Vance. No. 971,160; Sept. 27; Sp. p. 4300; Gaz. vol. 158; p. 756.
Tile and saggar, Combined. G. E. Vance. No. 971,228; Sept. 27; Sp. p. 4452; Gaz. vol. 158; p. 780.
Tile-board. G. P. Chappell. No. 957,189; May 10; Sp. p. 1479; Gaz. vol. 154; p. 264.
Tile-coating machine. F. E. Goldsmith. No. 948,011; Feb. 1; Sp. p. 478; Gaz. vol. 151; p. 77.
Tile-coating machine. F. E. Goldsmith. No. 948,012; Feb. 1; Sp. p. 481; Gaz. vol. 151; p. 78.
Tile-coating machines, Feed mechanism for. J. P. Scovill. No. 945,870; Jan. 11; Sp. p. 1929; Gaz. vol. 150; p. 320.
Tile-coating machinery. J. P. Scovill. No. 973,710; Oct. 25; Sp. p. 4825; Gaz. vol. 159; p. 839.
Tile, Composition for the manufacture of a. J. P. Hardin. No. 965,894; Aug. 2; Sp. p. 105; Gaz. vol. 157; p. 18.
Tile-cutting machine. A. S. Janin. No. 949,035; Feb. 15; Sp. p. 2656; Gaz. vol. 151; p. 473.
Tile-cutting machine. J. Bensing. No. 957,486; May 10; Sp. p. 2111; Gaz. vol. 154; p. 366.
Tile-cutting machine. W. E. Smith. No. 967,456; Aug. 16; Sp. p. 3462; Gaz. vol. 157; p. 596.
Tile-drain protector. O. P. Holbrook. No. 955,593; Apr. 19; Sp. p. 4090; Gaz. vol. 153; p. 714.
Tile, Furnace-. G. W. Wood. No. 979,627; Dec. 27; Sp. p. 4774; Gaz. vol. 161; p. 838.
Tile, Hollow. J. M. Carmean. No. 955,847; Apr. 26; Sp. p. 4665; Gaz. vol. 153; p. 831.
Tile, Irrigation-. J. E. Connor. No. 977,435; Dec. 6; Sp. p. 16; Gaz. vol. 161; p. 6.
Tile-making machine. W. J. McCracken. No. 951,740; Mar. 8; Sp. p. 2581; Gaz. vol. 152; p. 447.
Tile-making machine. A. A. Pauly. No. 965,004; July 19; Sp. p. 4358; Gaz. vol. 156; p. 726.
Tile-making machine. G. M. Myers. No. 975,062; Nov. 8; Sp. p. 2233; Gaz. vol. 160; p. 364.
Tile, Manufacture of. A. A. Pauly. No. 965,003; July 19; Sp. p. 4356; Gaz. vol. 156; p. 726.
Tile-manufacturing apparatus. W. T. Nicholls. No. 962,519; June 28; Sp. p. 4819; Gaz. vol. 155; p. 848.
Tile-marker. W. H. Starr. No. 959,269; May 24; Sp. p. 6181; Gaz. vol. 154; p. 1032.
Tile-mold. O. P. and R. L. Raber and J. E. Lang. No. 952,578; Mar. 22; Sp. p. 4298; Gaz. vol. 152; p. 787.
Tile-mold. F. Gorman. No. 958,628; May 17; Sp. p. 4810; Gaz. vol. 154; p. 790.
Tile-molding apparatus. W. L. Mooney. No. 972,704; Oct. 11; Sp. p. 2587; Gaz. vol. 159; p. 441.
Tile-molding machine. T. W. Costello and J. W. Houston. No. 948,682; Feb. 8; Sp. p. 1914; Gaz. vol. 151; p. 328.
Tile or block, Building. C. A. Hammett. No. 964,160; July 12; Sp. p. 2483; Gaz. vol. 156; p. 408.
Tile or slab. W. and R. L. Smith and C. S. Walker. No. 950,060; Feb. 22; Sp. p. 4858; Gaz. vol. 151; p. 855.
Tile, Roofing-. R. D. Watson. No. 946,177; Jan. 11; Sp. p. 2575; Gaz. vol. 150; p. 427.
Tile, Roofing-. H. B. Arnold and F. A. Bootes. No. 953,939; Apr. 5; Sp. p. 507; Gaz. vol. 153; p. 92.
Tile-trimming machine. W. G. Trautvetter. No. 961,560; June 14; Sp. p. 2735; Gaz. vol. 155; p. 474.
Tile, Wall-. F. X. Wille. No. 973,243; Oct. 18; Sp. p. 3833; Gaz. vol. 159; p. 655.
Tiles, &c., Apparatus for decorating. D. F. Meyer and J. W. Young. No. 948,931; Feb. 8; Sp. p. 2410; Gaz. vol. 151; p. 411.
Tiles, &c., Apparatus for decorating. J. W. Young. No. 975,921; Nov. 15; Sp. p. 4059; Gaz. vol. 160; p. 684.
Tiles of the faience kind, Manufacturing wall-facing. G. Delbrouck. No. 956,307; Apr. 26; Sp. p. 5693; Gaz. vol. 153; p. 991.
Tiling. E. T. Bates. No. 947,290; Jan. 25; Sp. p. 5064; Gaz. vol. 150; p. 856.
Tiling, Forming. G. P. Chappell. No. 957,187; May 10; Sp. p. 1476; Gaz. vol. 154; p. 263.
Tiling, Forming ornamental. G. P. Chappell. No. 957,188; May 10; Sp. p. 1477; Gaz. vol. 154; p. 264.
Tiller, Soil-. W. L. Brown. No. 951,522; Mar. 8; Sp. p. 2154; Gaz. vol. 152; p. 374.
Tilling-machine steering-gear. G. Spalding. No. 955,107; Apr. 12; Sp. p. 3036; Gaz. vol. 153; p. 515.
Tilting chair. J. Flindall. No. 958,998; May 24; Sp. p. 5616; Gaz. vol. 154; p. 943.
Timber-impregnating apparatus. S. Willner. No. 976,715; Nov. 22; Sp. p. 5782; Gaz. vol. 160; p. 979.
Time-alarm. J. W. Haywood. No. 951,116; Mar. 8; Sp. p. 1321; Gaz. vol. 152; p. 242.

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Time and wage computing and recording apparatus, Workman's. F. Simons. No. 975,296; Nov. 8; Sp. p. 2747; Gaz. vol. 160; p. 444.
Time ascertaining and recording book or device. S. E. Thompson. No. 956,230; Apr. 26; Sp. p. 5531; Gaz. vol. 153; p. 965.
Time-computer, Automatic. R. H. Bouslog. No. 958,584; May 17; Sp. p. 4725; Gaz. vol. 154; p. 776.
Time-controlled apparatus. A. Hammerstein. No. 949,764; Feb. 22; Sp. p. 4146; Gaz. vol. 151; p. 750.
Time-controlled mechanism. A. W. Bailey. No. 967,304; Aug. 16; Sp. p. 3147; Gaz. vol. 157; p. 545.
Time-controlled operating mechanism, Automatic. J. M. Chappel. No. 946,792; Jan. 18; Sp. p. 3978; Gaz. vol. 150; p. 662.
Time-controlling mechanism. A. W. Bailey. No. 948,718; Feb. 8; Sp. p. 1990; Gaz. vol. 151; p. 341.
Time-controlling mechanism. H. C. Wilcox. No. 957,398; May 10; Sp. p. 1945; Gaz. vol. 154; p. 337.
Time-detector, Watchman's. H. S. Prentiss. No. 973,383; Oct. 18; Sp. p. 4126; Gaz. vol. 159; p. 704.
Time indicating and recording machine or apparatus. F. M. Russell and A. J. Jung. No. 967,567; Aug. 16; Sp. p. 3694; Gaz. vol. 157; p. 636.
Time-indicator. G. I. Bodine, Jr. No. 974,401; Nov. 1; Sp. p. 721; Gaz. vol. 160; p. 109.
Time-lock. O. F. Mieth. No. 978,325; Dec. 13; Sp. p. 1967; Gaz. vol. 161; p. 343.
Time-lock, Recording. J. F. Pixley and L. C. Bush. No. 947,475; Jan. 25; Sp. p. 5515; Gaz. vol. 150; p. 919.
Time-recorder. J. Morrison. No. 945,044; Jan. 4; Sp. p. 71; Gaz. vol. 150; p. 14.
Time-recorder. W. D. Hawley. No. 949,232; Feb. 15; Sp. p. 3033; Gaz. vol. 151; p. 538.
Time-recorder. M. H. Avram. No. 950,649; Mar. 1; Sp. p. 396; Gaz. vol. 152; p. 64.
Time-recorder. J. C. Swallow. No. 954,403; Apr. 5; Sp. p. 1495; Gaz. vol. 153; p. 248.
Time-recorder. J. and A. Dey. No. 956,309; Apr. 26; Sp. p. 5695; Gaz. vol. 153; p. 992.
Time-recorder. R. Kopp. No. 964,475; July 12; Sp. p. 3105; Gaz. vol. 156; p. 510.
Time-recorder. W. D. Hawley. No. 969,370; Sept. 6; Sp. p. 472; Gaz. vol. 158; p. 76.
Time-recorder. C. H. Koerber. No. 976,375; Nov. 22; Sp. p. 5079; Gaz. vol. 160; p. 862.
Time-recorder. J. Sokolov. No. 979,585; Dec. 27; Sp. p. 4688; Gaz. vol. 161; p. 823.
Time-recorder, Employee's. A. Pestel. No. 974,912; Nov. 8; Sp. p. 1883; Gaz. vol. 160; p. 311.
Time-recorder for homing-pigeons. G. M. Mills. No. 952,832; Mar. 22; Sp. p. 4860; Gaz. vol. 152; p. 875.
Time-recorder, Workman's. F. J. Tran and F. Cais. No. 979,108; Dec. 20; Sp. p. 3677; Gaz. vol. 161; p. 638.
Time recording and indicating apparatus, workman's tell-tale, and the like. F. M. Russell. No. 953,802; Apr. 5; Sp. p. 243; Gaz. vol. 153; p. 43.
Time-recording apparatus. W. H. Jackson. No. 966,553; Aug. 9; Sp. p. 1550; Gaz. vol. 157; p. 265.
Time-recording register. H. B. McCabe. No. 946,858; Jan. 18; Sp. p. 4140; Gaz. vol. 150; p. 685.
Time-signal, Electric. J. I. Johnston. No. 978,593; Dec. 13; Sp. p. 2562; Gaz. vol. 161; p. 437.
Time-switch. W. C. Pugh. No. 966,118; Aug. 2; Sp. p. 577; Gaz. vol. 157; p. 94.
Time-switch, Automatic. P. J. Stuparich. No. 951,750; Mar. 8; Sp. p. 2606; Gaz. vol. 152; p. 451.
Timer. C. S. Martin. No. 947,736; Jan. 25; Sp. p. 6045; Gaz. vol. 150; p. 1008.
Timer. D. W. Hare. No. 961,407; June 14; Sp. p. 2386; Gaz. vol. 155; p. 422.
Timer and distributer. C. Cuno. No. 958,908; May 24; Sp. p. 5451; Gaz. vol. 154; p. 913.
Timer and distributer. T. H. McQuown. No. 973,447; Oct. 18; Sp. p. 4257; Gaz. vol. 159; p. 725.
Timer, Automatic. G. Wright. No. 952,166; Mar. 15; Sp. p. 3439; Gaz. vol. 152; p. 619.
Timing system. T. S. Bindschedler. No. 964,743; July 19; Sp. p. 3829; Gaz. vol. 156; p. 637.
Timepiece hair-spring collet. R. Lange. No. 975,697; Nov. 15; Sp. p. 3602; Gaz. vol. 160; p. 607.
Timepiece balance-wheel. F. Ecaubert. No. 965,508; July 26; Sp. p. 5419; Gaz. vol. 156; p. 926.
Timepiece compensating-balance. F. Ecaubert. No. 965,506; July 26; Sp. p. 5410; Gaz. vol. 156; p. 925.
Timepiece-spring. W. v. Bolton. No. 946,993; Jan. 18; Sp. p. 4440; Gaz. vol. 150; p. 731.
Timepiece-spring. W. von Bolton. No. 947,146; Jan. 18; Sp. p. 4710; Gaz. vol. 150; p. 778.
Timepiece-spring. W. von Bolton. No. 947,147; Jan. 18; Sp. p. 4711; Gaz. vol. 150; p. 778.
Timepiece winding mechanism, Electric. J. Steiger and J. Besançon. No. 950,520; Mar. 1; Sp. p. 128; Gaz. vol. 152; p. 21.
Timepieces, Driving-train for. J. Kangas. No. 975,959; Nov. 15; Sp. p. 4125; Gaz. vol. 160; p. 697.
Tin and sheet bar heater. C. Hillman. No. 950,669; Mar. 1; Sp. p. 441; Gaz. vol. 152; p. 72.
Tin from scrap, Removing. C. J. Reed. No. 950,115; Feb. 22; Sp. p. 4956; Gaz. vol. 151; p. 873.
Tin from tin-plate waste, Apparatus for extracting. H. Brandenburg. No. 948,679; Feb. 8; Sp. p. 1909; Gaz. vol. 151; p. 327.
Tin from tin-plate waste, Removing. H. Brandenburg. No. 974,463; Nov. 1; Sp. p. 895; Gaz. vol. 160; p. 132.
Tin from tin-scrap, Apparatus for extracting. E. C. Higgins. No. 965,580; July 26; Sp. p. 5597; Gaz. vol. 156; p. 952.
Tin-plate, Apparatus for the manufacture of. J. A. Lamp and S. C. Stiner. No. 956,981; May 3; Sp. p. 1054; Gaz. vol. 154; p. 165.
Tin-plate-catching machine. G. J. Szabo. No. 970,134; Sept. 13; Sp. p. 2117; Gaz. vol. 158; p. 360.
Tin-plate, Making. J. A. Lamp and S. C. Stiner. No. 951,952; Mar. 15; Sp. p. 3036; Gaz. vol. 152; p. 550.
Tin-plate polishing and cleaning machine. W. C. Vanneman. No. 964,192; July 12; Sp. p. 2535; Gaz. vol. 156; p. 418.
Tin-reducing apparatus. R. W. Scott. No. 957,111; May 3; Sp. p. 1303; Gaz. vol. 154; p. 208.
Tin-scrap, Detinning. W. J. Phelps. No. 952,351; Mar. 15; Sp. p. 3807; Gaz. vol. 152; p. 681.
Tipping furnace, mixer, &c. J. L. Klindworth. No. 958,503; May 17; Sp. p. 4567; Gaz. vol. 154; p. 749.
Tire. H. Davis. No. 945,037; Jan. 4; Sp. p. 61; Gaz. vol. 150; p. 11.
Tire. B. W. Meredith and O. Wildman. No. 945,470; Jan. 4; Sp. p. 991; Gaz. vol. 150; p. 156.
Tire. D. W. Jones. No. 946,638; Jan. 18; Sp. p. 3642; Gaz. vol. 150; p. 610.
Tire. W. D. Harris. No. 947,442; Jan. 25; Sp. p. 5430; Gaz. vol. 150; p. 909.
Tire. R. and S. Basch. No. 950,985; Mar. 1; Sp. p. 1086; Gaz. vol. 152; p. 174.
Tire. J. Neary. No. 952,132; Mar. 15; Sp. p. 3381; Gaz. vol. 152; p. 608.
Tire. L. M. Nelson. No. 955,188; Apr. 19; Sp. p. 3210; Gaz. vol. 153; p. 576.
Tire. I. B. Kempshall. No. 957,167; May 3; Sp. p. 1423; Gaz. vol. 154; p. 228.
Tire. I. B. Kempshall. No. 957,168; May 3; Sp. p. 1424; Gaz. vol. 154; p. 228.
Tire. W. B. Connell. No. 958,693; May 17; Sp. p. 4934; Gaz. vol. 154; p. 810.
Tire. A. Kessler, Jr. No. 959,353; May 24; Sp. p. 6346; Gaz. vol. 154; p. 1061.
Tire. R. Herman. No. 961,443; June 14; Sp. p. 2472; Gaz. vol. 155; p. 435.
Tire. I. F. Peck. No. 963,320; July 5; Sp. p. 718; Gaz. vol. 156; p. 103.
Tire. L. M. Nelson. No. 968,069; Aug. 23; Sp. p. 4749; Gaz. vol. 157; p. 826.
Tire. L. M. Nelson. No. 969,717; Sept. 6; Sp. p. 1194; Gaz. vol. 158; p. 193.
Tire. E. H. Herndon. No. 972,764; Oct. 11; Sp. p. 2720; Gaz. vol. 159; p. 463.
Tire. I. B. Kempshall. No. 973,278; Oct. 18; Sp. p. 3897; Gaz. vol. 159; p. 667.
Tire. B. B. Dawson. No. 974,861; Nov. 8; Sp. p. 1770; Gaz. vol. 160; p. 295.
Tire. J. A. Vitello. No. 977,492; Dec. 6; Sp. p. 142; Gaz. vol. 161; p. 25.
Tire. J. M. Benham and G. W. Slater. No. 977,584; Dec. 6; Sp. p. 393; Gaz. vol. 161; p. 57.
Tire. H. H. Hodgson. No. 977,628; Dec. 6; Sp. p. 475; Gaz. vol. 161; p. 72.
Tire. J. A. Bowden. No. 978,549; Dec. 13; Sp. p. 2442; Gaz. vol. 161; p. 420.
Tire. H. E. Moebus. No. 979,325; Dec. 20; Sp. p. 4137; Gaz. vol. 161; p. 712.
Tire. J. J. Patton. No. 979,882; Dec. 27; Sp. p. 5340; Gaz. vol. 161; p. 924.
Tire. J. J. Patton. No. 979,883; Dec. 27; Sp. p. 5341; Gaz. vol. 161; p. 924.
Tire air-pressure gage. W. E. Sandham. No. 948,526; Feb. 8; Sp. p. 1572; Gaz. vol. 151; p. 277.
Tire and fastening means therefor, Vehicle-. J. A. Swinehart. No. 954,225; Apr. 5; Sp. p. 1138; Gaz. vol. 153; p. 189.
Tire and rim lock. G. J. Fanner. No. 964,152; July 12; Sp. p. 2471; Gaz. vol. 156; p. 405.
Tire and rim, Vehicle-wheel. S. L. Simpson. No. 974,713; Nov. 1; Sp. p. 1444; Gaz. vol. 160; p. 223.
Tire and stud therefor, Antiskid-. C. S. Beebe. No. 967,707; Aug. 16; Sp. p. 3967; Gaz. vol. 157; p. 681.
Tire and the like, Pneumatic. W. J. Thorold. No. 949,947; Feb. 22; Sp. p. 4565; Gaz. vol. 151; p. 816.
Tire and tire-tread construction. P. E. Wirt. No. 951,870; Mar. 15; Sp. p. 2873; Gaz. vol. 152; p. 522.
Tire, Antiskid-. H. G. Raflovich. No. 965,331; July 26; Sp. p. 5040; Gaz. vol. 156; p. 866.
Tire antiskid device. R. N. Evans and P. T. Hamm. No. 979,140; Dec. 20; Sp. p. 3754; Gaz. vol. 161; p. 650.
Tire antiskid device. P. T. Hamm. No. 979,159; Dec. 20; Sp. p. 3796; Gaz. vol. 161; p. 658.
Tire antiskid device. P. T. Hamm. No. 979,160; Dec. 20; Sp. p. 3798; Gaz. vol. 161; p. 658.
Tire, Antiskidding. J. Corwin. No. 955,634; Apr. 19; Sp. p. 4191; Gaz. vol. 153; p. 729.

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Tire, Antiskidding. I. B. Kempshall. No. 957,165; May 3; Sp. p. 1419; Gaz. vol. 154; p. 227.
Tire, Antiskidding. W. B. Yoder. No. 976,971; Nov. 29; Sp. p. 6404; Gaz. vol. 160; p. 1094.
Tire-armor. C. G. Wright. No. 947,141; Jan. 18; Sp. p. 4702; Gaz. vol. 150; p. 777.
Tire-armor. C. H. Maddox. No. 947,834; Feb. 1; Sp. p. 95; Gaz. vol. 151; p. 20.
Tire-armor. A. G. Thomson. No. 950,417; Feb. 22; Sp. p. 5562; Gaz. vol. 151; p. 975.
Tire-armor. A. G. Thomson. No. 953,071; Mar. 29; Sp. p. 5347; Gaz. vol. 152; p. 984.
Tire-armor. W. W. Tompkins. No. 954,362; Apr. 5; Sp. p. 1413; Gaz. vol. 153; p. 235.
Tire-armor. W. W. Jones. No. 955,169; Apr. 19; Sp. p. 3174; Gaz. vol. 153; p. 570.
Tire-armor. C. E. Titus. No. 955,831; Apr. 19; Sp. p. 4610; Gaz. vol. 153; p. 797.
Tire-armor. H. A. Gamble. No. 966,438; Aug. 9; Sp. p. 1238; Gaz. vol. 157; p. 225.
Tire-armor. P. M. Stephan. No. 967,457; Aug. 16; Sp. p. 3463; Gaz. vol. 157; p. 597.
Tire-armor. F. H. Schulenberg. No. 968,086; Aug. 23; Sp. p. 4783; Gaz. vol. 157; p. 832.
Tire-armor. A. F. Walker and J. Gilles. No. 978,243; Dec. 13; Sp. p. 1790; Gaz. vol. 161; p. 314.
Tire armor, Pneumatic-. I. Goldstein. No. 960,308; June 7; Sp. p. 133; Gaz. vol. 155; p. 26.
Tire armor, Pneumatic-. C. E. Huxley. No. 964,783; July 19; Sp. p. 3918; Gaz. vol. 156; p. 651.
Tire armor, Pneumatic-. A. H. Macbeth. No. 965,642; July 26; Sp. p. 5730; Gaz. vol. 156; p. 974.
Tire armor, Vehicle-. C. S. Barrell. No. 953,000; Mar. 22; Sp. p. 5184; Gaz. vol. 152; p. 930.
Tire, Armored. W. H. Eynon. No. 963,882; July 12; Sp. p. 1917; Gaz. vol. 156; p. 315.
Tire, Armored vehicle-. M. L. Williams. No. 951,087; Mar. 1; Sp. p. 1264; Gaz. vol. 152; p. 207.
Tire, Auto-. F. Modlin. No. 969,389; Sept. 6; Sp. p. 509; Gaz. vol. 158; p. 81.
Tire, Automobile-. I. B. Kempshall. No. 945,396; Jan. 4; Sp. p. 850; Gaz. vol. 150; p. 132.
Tire, Automobile-. H. S. Shafer. No. 960,119; May 31; Sp. p. 8010; Gaz. vol. 154; p. 1345.
Tire, Automobile-. G. F. and C. C. Annis. No. 962,729; June 28; Sp. p. 5271; Gaz. vol. 155; p. 920.
Tire, Automobile-. C. A. Lieb. No. 968,777; Aug. 30; Sp. p. 6288; Gaz. vol. 157; p. 1097.
Tire-bolt cutter and nut turner and splitter. G. Heller. No. 971,195; Sept. 27; Sp. p. 4382; Gaz. vol. 158; p. 769.
Tire-bolt tightener and cutter, Power. H. A. Krueger. No. 947,578; Jan. 25; Sp. p. 5748; Gaz. vol. 150; p. 955.
Tire, Built-up pneumatic. P. Trudeau. No. 974,771; Nov. 1; Sp. p. 1566; Gaz. vol. 160; p. 241.
Tire-carrier. L. A. Dow. No. 962,401; June 21; Sp. p. 4526; Gaz. vol. 155; p. 781.
Tire-carrier. C. F. Batt. No. 962,730; June 28; Sp. p. 5272; Gaz. vol. 155; p. 920.
Tire-case. P. Evans. No. 947,527; Jan. 25; Sp. p. 5640; Gaz. vol. 150; p. 937.
Tire-case. C. A. Russell. No. 959,391; May 24; Sp. p. 6414; Gaz. vol. 154; p. 1073.
Tire-casing. J. W. Moore. No. 971,301; Sept. 27; Sp. p. 4583; Gaz. vol. 158; p. 802.
Tire-casings, Device for supporting. A. A. Rigny. No. 963,808; July 12; Sp. p. 1747; Gaz. vol. 156; p. 290.
Tire-chain, Elastic non-skidding. C. E. Abrams and C. H. Mason. No. 954,844; Apr. 12; Sp. p. 2519; Gaz. vol. 153; p. 429.
Tire-charging device, Pneumatic-. F. O. Warrick. No. 966,874; Aug. 9; Sp. p. 2264; Gaz. vol. 157; p. 371.
Tire-clamp. B. Morgan. No. 977,212; Nov. 29; Sp. p. 6931; Gaz. vol. 160; p. 1178.
Tire construction. P. E. Wirt. No. 951,869; Mar. 15; Sp. p. 2867; Gaz. vol. 152; p. 522.
Tire construction. P. E. Wirt. No. 951,871; Mar. 15; Sp. p. 2878; Gaz. vol. 152; p. 522.
Tire construction. P. E. Wirt. No. 951,872; Mar. 15; Sp. p. 2882; Gaz. vol. 152; p. 523.
Tire construction. P. E. Wirt. No. 951,873; Mar. 15; Sp. p. 2885; Gaz. vol. 152; p. 523.
Tire container, Auto. B. A. Alperin. No. 966,414; Aug. 9; Sp. p. 1185; Gaz. vol. 157; p. 216.
Tire-cooling device, Pneumatic-. E. J. Schneider. No. 953,299; Mar. 29; Sp. p. 5850; Gaz. vol. 152; p. 1057.
Tire, Cushion-. V. E. Rumbarger. No. 946,869; Jan. 18; Sp. p. 4188; Gaz. vol. 150; p. 689.
Tire, Cushion-. G. Debladis. No. 963,750; July 12; Sp. p. 1604; Gaz. vol. 156; p. 270.
Tire, Cushion-. T. Purcell. No. 969,077; Aug. 30; Sp. p. 6887; Gaz. vol. 157; p. 1199.
Tire, Cushion-. E. C. Shilling. No. 974,303; Nov. 1; Sp. p. 505; Gaz. vol. 160; p. 75.
Tire, Demountable. V. Wildner. No. 970,005; Sept. 13; Sp. p. 1868; Gaz. vol. 158; p. 318.
Tire, Elastic. J. P. Magney. No. 965,204; July 26; Sp. p. 4756; Gaz. vol. 156; p. 822.
Tire, Elastic vehicle-. W. H. Eynon. No. 966,674; Aug. 9; Sp. p. 1784; Gaz. vol. 157; p. 305.
Tire, Emergency-. C. M. Culp. No. 965,443; July 26; Sp. p. 5282; Gaz. vol. 156; p. 903.
Tire, Emergency-. W. S. Smith. No. 972,274; Oct. 11; Sp. p. 1664; Gaz. vol. 159; p. 293.
Tire-fastener. R. W. Jordan. No. 963,048; July 5; Sp. p. 44; Gaz. vol. 156; p. 9.
Tire-fastening device. R. S. Bryant. No. 968,446; Aug. 23; Sp. p. 5542; Gaz. vol. 157; p. 956.
Tire-fastening device. W. B. Owen. No. 974,178; Nov. 1; Sp. p. 150; Gaz. vol. 160; p. 28.
Tire-fastening device, Vehicle-. P. B. Bosworth. No. 977,588; Dec. 6; Sp. p. 398; Gaz. vol. 161; p. 58.
Tire-fastening device, Vehicle-. P. B. Bosworth. No. 977,589; Dec. 6; Sp. p. 399; Gaz. vol. 161; p. 58.
Tire-fastening means, Vehicle-. P. B. Bosworth. No. 977,586; Dec. 6; Sp. p. 395; Gaz. vol. 161; p. 57.
Tire for automobile-wheels, &c., Emergency-. W. Budesheim and J. D. Stinchcomb. No. 947,221; Jan. 25; Sp. p. 4888; Gaz. vol. 150; p. 834.
Tire for road-vehicle wheels. R. J. Caldwell. No. 975,207; Nov. 8; Sp. p. 2573; Gaz. vol. 160; p. 415.
Tire for vehicle-wheels, Cushion-. W. E. Budd. No. 951,053; Mar. 1; Sp. p. 1195; Gaz. vol. 152; p. 196.
Tire for vehicle-wheels, Elastic. B. A. Godek. No. 961,955; June 21; Sp. p. 3574; Gaz. vol. 155; p. 630.
Tire for vehicle-wheels, Fiber. S. L. Simpson. No. 974,714; Nov. 1; Sp. p. 1445; Gaz. vol. 160; p. 223.
Tire for vehicle-wheels, Pneumatic. G. W. Beldam. No. 950,429; Feb. 22; Sp. p. 5586; Gaz. vol. 151; p. 979.
Tire for vehicle-wheels, Pneumatic. A. Wolber. No. 956,464; Apr. 26; Sp. p. 6019; Gaz. vol. 153; p. 1044.
Tire for vehicle-wheels, Resilient. J. H. Rawlins. No. 949,684; Feb. 15; Sp. p. 3953; Gaz. vol. 151; p. 689.
Tire for vehicle-wheels, Solid. A. Mans. No. 962,444; June 28; Sp. p. 4653; Gaz. vol. 155; p. 821.
Tire for vehicles, Armored. C. D. Farr. No. 952,188; Mar. 15; Sp. p. 3476; Gaz. vol. 152; p. 626.
Tire for vehicles, Elastic. I. S. McGiehan. No. 959,579; May 31; Sp. p. 6827; Gaz. vol. 154; p. 1162.
Tire for vehicles, Elastic. A. Boerner. No. 979,417; Dec. 27; Sp. p. 4314; Gaz. vol. 161; p. 765.
Tire for vehicles, Pneumatic. C. E. Titus. No. 948,193; Feb. 1; Sp. p. 842; Gaz. vol. 151; p. 138.
Tire for vehicles, Rubber. R. J. Evans. No. 949,888; Feb. 22; Sp. p. 4447; Gaz. vol. 151; p. 794.
Tire for wheels, Spring-. S. A. Schewczik. No. 967,249; Aug. 16; Sp. p. 3043; Gaz. vol. 157; p. 526.
Tire-grip. E. E. Burns. No. 953,512; Mar. 29; Sp. p. 6318; Gaz. vol. 152; p. 1132.
Tire-grip. A. R. Corrington. No. 957,309; May 10; Sp. p. 1755; Gaz. vol. 154; p. 307.
Tire-healing compound. H. S. Griswold. No. 974,134; Nov. 1; Sp. p. 56; Gaz. vol. 160; p. 12.
Tire-heater. D. L. Brown. No. 954,612; Apr. 12; Sp. p. 1958; Gaz. vol. 153; p. 347.
Tire-heater. U. H. Laurin. No. 964,795; July 19; Sp. p. 3940; Gaz. vol. 156; p. 654.
Tire-heating device. J. A. Mahr. No. 945,966; Jan. 11; Sp. p. 2140; Gaz. vol. 150; p. 356.
Tire-heating device, Drive-wheel-. J. A. Mahr. No. 945,968; Jan. 11; Sp. p. 2144; Gaz. vol. 150; p. 357.
Tire-holder and trunk. F. S. Suthergreen. No. 961,553; June 14; Sp. p. 2717; Gaz. vol. 155; p. 471.
Tire holder and trunk-support, Spare-. L. P. McKinney. No. 979,188; Dec. 20; Sp. p. 3855; Gaz. vol. 161; p. 667.
Tire-holder, Swinging. A. C. Gaynor. No. 964,153; July 12; Sp. p. 2472; Gaz. vol. 156; p. 405.
Tire-inflater. W. R. Heck. No. 970,329; Sept. 13; Sp. p. 2530; Gaz. vol. 158; p. 427.
Tire-inflating device. R. Barnfather. No. 972,050; Oct. 4; Sp. p. 1178; Gaz. vol. 159; p. 198.
Tire-inflating pump. C. Lewis. No. 975,774; Nov. 15; Sp. p. 3759; Gaz. vol. 160; p. 633.
Tire inflation, Means for. L. S. Brown. No. 946,717; Jan. 18; Sp. p. 3806; Gaz. vol. 150; p. 636.
Tire-inflator for automobiles. H. P. Maxim. No. 956,592; May 3; Sp. p. 184; Gaz. vol. 154; p. 32.
Tire-lifter. J. W. Brown. No. 960,070; May 31; Sp. p. 7922; Gaz. vol. 154; p. 1330.
Tire locking-clamp, Extra-automobile-. G. A. Phail and C. Swanson. No. 967,047; Aug. 9; Sp. p. 2627; Gaz. vol. 157; p. 430.
Tire-locking device, Vehicle-. A. Packard. No. 969,396; Sept. 6; Sp. p. 527; Gaz. vol. 158; p. 84.
Tire, Metallic. A. J. Fortescue. No. 974,046; Oct. 25; Sp. p. 5519; Gaz. vol. 159; p. 957.
Tire-mill. A. W. Carroll. No. 968,921; Aug. 30; Sp. p. 6576; Gaz. vol. 157; p. 1145.
Tire, Non-puncturable. C. R. Rawdon. No. 968,980; Aug. 30; Sp. p. 6688; Gaz. vol. 157; p. 1164.
Tire, Non-skid. L. Greenwald. No. 952,039; Mar. 15; Sp. p. 3209; Gaz. vol. 152; p. 577.
Tire, Non-skid. R. H. Keaton. No. 979,961; Dec. 27; Sp. p. 5493; Gaz. vol. 161; p. 950.
Tire, Non-slipping. C. F. C. Morris. No. 952,014; Mar. 15; Sp. p. 3162; Gaz. vol. 152; p. 569.
Tire outer cover, Pneumatic-. H. Staub. No. 953,303; Mar. 29; Sp. p. 5855; Gaz. vol. 152; p. 1058.
Tire parts, Case for. B. A. Alperin. No. 966,415; Aug. 9; Sp. p. 1186; Gaz. vol. 157; p. 216.
Tire-patching device. G. J. Martel. No. 979,525; Dec. 27; Sp. p. 4544; Gaz. vol. 161; p. 802.

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Tire-plug. L. A. Bourquenez. No. 962,615; June 28; Sp. p. 5030; Gaz. vol. 155; p. 880.
Tire, Pneumatic. J. G. A. Kitchen and I. H. Storey. No. 948,701; Feb. 8; Sp. p. 1957; Gaz. vol. 151; p. 335.
Tire, Pneumatic. W. Odell. No. 948,903; Feb. 8; Sp. p. 2367; Gaz. vol. 151; p. 403.
Tire, Pneumatic. W. M. Harley. No. 949,472; Feb. 15; Sp. p. 3557; Gaz. vol. 151; p. 619.
Tire, Pneumatic. R. T. Badgley. No. 952,175; Mar. 15; Sp. p. 3455; Gaz. vol. 152; p. 622.
Tire, Pneumatic. L. B. Krum. No. 952,675; Mar. 22; Sp. p. 4520; Gaz. vol. 152; p. 821.
Tire, Pneumatic. A. Bonnet. No. 956,928; May 3; Sp. p. 928; Gaz. vol. 154; p. 148.
Tire, Pneumatic. H. L. Dazey. No. 956,948; May 3; Sp. p. 965; Gaz. vol. 154; p. 154.
Tire, Pneumatic. W. A. Lurie. No. 962,230; June 21; Sp. p. 4169; Gaz. vol. 155; p. 724.
Tire, Pneumatic. W. B. Hartridge. No. 962,897; June 28; Sp. p. 5594; Gaz. vol. 155; p. 979.
Tire, Pneumatic. M. T. J. Ochs. No. 964,049; July 12; Sp. p. 2257; Gaz. vol. 156; p. 371.
Tire, Pneumatic. J. Corwin. No. 965,281; July 26; Sp. p. 4916; Gaz. vol. 156; p. 848.
Tire-press. D. McEachern. No. 968,877; Aug. 30; Sp. p. 6486; Gaz. vol. 157; p. 1129.
Tire-protective armor. A. G. Thomson. No. 976,011; Nov. 15; Sp. p. 4219; Gaz. vol. 160; p. 715.
Tire-protector. J. C. Warring. No. 945,649; Jan. 4; Sp. p. 1377; Gaz. vol. 150; p. 215.
Tire-protector. F. P. Hayes. No. 949,572; Feb. 15; Sp. p. 3760; Gaz. vol. 151; p. 653.
Tire-protector. L. Faber. No. 952,073; Mar. 15; Sp. p. 3264; Gaz. vol. 152; p. 588.
Tire-protector. A. E. Goldman. No. 954,730; Apr. 12; Sp. p. 2237; Gaz. vol. 153; p. 388.
Tire-protector. J. Wilmes. No. 958,053; May 17; Sp. p. 3468; Gaz. vol. 154; p. 593.
Tire-protector. J. L. La Driere. No. 964,977; July 19; Sp. p. 4297; Gaz. vol. 156; p. 717.
Tire-protector. W. T. Dorgan. No. 965,695; July 26; Sp. p. 5845; Gaz. vol. 156; p. 992.
Tire-protector. J. A. Bailey and C. F. Purkitt. No. 967,704; Aug. 16; Sp. p. 3962; Gaz. vol. 157; p. 680.
Tire-protector. C. W. Jasmer. No. 967,779; Aug. 16; Sp. p. 4123; Gaz. vol. 157; p. 706.
Tire-protector. W. E. Sampson. No. 967,979; Aug. 23; Sp. p. 4536; Gaz. vol. 157; p. 796.
Tire-protector. D. D. Murray. No. 968,184; Aug. 23; Sp. p. 5023; Gaz. vol. 157; p. 866.
Tire-protector. O. Neukirch. No. 973,545; Oct. 25; Sp. p. 4474; Gaz. vol. 159; p. 782.
Tire-protector and antiskidding device. C. D. Bell. No. 966,517; Aug. 9; Sp. p. 1472; Gaz. vol. 157; p. 252.
Tire-protector and tread-grip. A. C. and S. W. Smith. No. 968,706; Aug. 30; Sp. p. 6147; Gaz. vol. 157; p. 1073.
Tire protector, Automobile-. J. G. Anthony. No. 964,363; July 12; Sp. p. 2882; Gaz. vol. 156; p. 476.
Tire protector, Automobile-. J. S. Ehrich. No. 965,698; July 26; Sp. p. 5848; Gaz. vol. 156; p. 993.
Tire-protector jack, Auto-. G. M. Beard. No. 975,600; Nov. 15; Sp. p. 3384; Gaz. vol. 160; p. 575.
Tire protector, Pneumatic-. R. J. Morrison. No. 959,957; May 31; Sp. p. 7653; Gaz. vol. 154; p. 1290.
Tire protector, Pneumatic-. G. Vergote. No. 963,667; July 5; Sp. p. 1402; Gaz. vol. 156; p. 219.
Tire protector, Pneumatic-. E. Russell. No. 969,908; Sept. 13; Sp. p. 1649; Gaz. vol. 158; p. 285.
Tire protector, Pneumatic-. O. A. Brictson. No. 971,246; Sept. 27; Sp. p. 4494; Gaz. vol. 158; p. 786.
Tire-pumping attachment for automobiles. O. M. Bergstrom. No. 968,732; Aug. 30; Sp. p. 6196; Gaz. vol. 157; p. 1082.
Tire reinforcement, Pneumatic-. A. L. Murray. No. 964,446; July 12; Sp. p. 3037; Gaz. vol. 156; p. 501.
Tire-reinforcing fabric and making same. C. Zeglen. No. 977,357; Nov. 29; Sp. p. 7227; Gaz. vol. 160; p. 1227.
Tire-remover. P. C. Wiest. No. 959,669; May 31; Sp. p. 7018; Gaz. vol. 154; p. 1192.
Tire-remover. H. B. Young and R. Palomino. No. 964,358; July 12; Sp. p. 2874; Gaz. vol. 156; p. 474.
Tire-repair device. J. C. Herman. No. 950,172; Feb. 22; Sp. p. 5085; Gaz. vol. 151; p. 893.
Tire-repair-vulcanizing device. F. A. Blanchard. No. 966,302; Aug. 2; Sp. p. 963; Gaz. vol. 157; p. 154.
Tire-repairing device. E. A. Holcomb. No. 976,262; Nov. 22; Sp. p. 4833; Gaz. vol. 160; p. 825.
Tire, Resilient. E. B. Mérigoux. No. 949,001; Feb. 15; Sp. p. 2576; Gaz. vol. 151; p. 463.
Tire, Resilient. J. Baar. No. 962,297; June 21; Sp. p. 4324; Gaz. vol. 155; p. 746.
Tire, Resilient. I. O. Wilson. No. 964,727; July 19; Sp. p. 3801; Gaz. vol. 156; p. 632.
Tire, Resilient. E. B. Mérigoux. No. 965,922; Aug. 2; Sp. p. 155; Gaz. vol. 157; p. 26.
Tire, Resilient. M. G. C. Dodwell. No. 972,756; Oct. 11; Sp. p. 2706; Gaz. vol. 159; p. 460.
Tire, Resilient. D. A. York. No. 973,245; Oct. 18; Sp. p. 3835; Gaz. vol. 159; p. 656.
Tire, Resilient. N. H. Hassel. No. 973,781; Oct. 25; Sp. p. 4969; Gaz. vol. 159; p. 864.
Tire, Resilient. F. Lamplough. No. 975,539; Nov. 15; Sp. p. 3269; Gaz. vol. 160; p. 555.
Tire-retainer. C. Markel. No. 978,766; Dec. 13; Sp. p. 2918; Gaz. vol. 161; p. 493.
Tire-retaining flange for wheel-rims. R. S. Bryant. No. 973,162; Oct. 18; Sp. p. 3657; Gaz. vol. 159; p. 628.
Tire-rim, Demountable. A. Paul. No. 968,880; Aug. 30; Sp. p. 6495; Gaz. vol. 157; p. 1131.
Tire-rim for motor-vehicle wheels. C. B. Siner. No. 977,843; Dec. 6; Sp. p. 919; Gaz. vol. 161; p. 145.
Tire-rim for motor-vehicle wheels. C. B. Siner. No. 977,844; Dec. 6; Sp. p. 920; Gaz. vol. 161; p. 146.
Tire rim, Pneumatic-. A. L. Lockwood. No. 953,477; Mar. 29; Sp. p. 6241; Gaz. vol. 152; p. 1119.
Tire, Sectional emergency-. W. Budesheim and J. D. Stinchcomb. No. 975,325; Nov. 8; Sp. p. 2811; Gaz. vol. 160; p. 454.
Tire, Sectional wheel-. J. C. Lighthouse. No. 969,889; Sept. 13; Sp. p. 1612; Gaz. vol. 158; p. 278.
Tire-securing device. C. R. Spore, Jr., and J. B. Lang. No. 975,901; Nov. 15; Sp. p. 4013; Gaz. vol. 160; p. 676.
Tire-setter. W. Schau. No. 948,637; Feb. 8; Sp. p. 1819; Gaz. vol. 151; p. 313.
Tire-setter. E. A. Grenelle. No. 973,035; Oct. 18; Sp. p. 3374; Gaz. vol. 159; p. 584.
Tire-shield. R. J. Stone. No. 964,131; July 12; Sp. p. 2433; Gaz. vol. 156; p. 399.
Tire-shield. H. F. D. Meyer. No. 967,806; Aug. 16; Sp. p. 4168; Gaz. vol. 157; p. 715.
Tire-shield, Metal. A. J. Walker. No. 953,873; Apr. 5; Sp. p. 380; Gaz. vol. 153; p. 69.
Tire-shoe-vulcanizing apparatus. R. Rowley. No. 979,889; Dec. 27; Sp. p. 5354; Gaz. vol. 161; p. 926.
Tire-shoe wrapping and vulcanizing apparatus. R. Rowley. No. 979,568; Dec. 27; Sp. p. 4649; Gaz. vol. 161; p. 817.
Tire-shoe wrappings, Compression apparatus for. R. Rowley and J. J. Coomber. No. 962,102; June 21; Sp. p. 3889; Gaz. vol. 155; p. 680.
Tire-shoes, Making. F. A. Seiberling and W. C. State. No. 948,064; Feb. 1; Sp. p. 602; Gaz. vol. 151; p. 96.
Tire-shrinker. G. E. Blake. No. 960,798; June 7; Sp. p. 1130; Gaz. vol. 155; p. 189.
Tire-sleeve-fastening apparatus. P. B. Donahoo. No. 957,313; May 10; Sp. p. 1770; Gaz. vol. 154; p. 309.
Tire-smoothing apparatus, Pneumatic-. A. Mathern. No. 973,061; Oct. 18; Sp. p. 3422; Gaz. vol. 159; p. 593.
Tire, Spring-. R. J. Lackner. No. 947,826; Feb. 1; Sp. p. 78; Gaz. vol. 151; p. 17.
Tire, Spring-. L. F. Kenney. No. 949,903; Feb. 22; Sp. p. 4481; Gaz. vol. 151; p. 800.
Tire, Spring-. V. Bauer. No. 961,065; June 7; Sp. p. 1660; Gaz. vol. 155; p. 278.
Tire, Spring-. V. A. Marsh. No. 976,667; Nov. 22; Sp. p. 5698; Gaz. vol. 160; p. 964.
Tire-support. A. C. Hayden. No. 976,736; Nov. 22; Sp. p. 5818; Gaz. vol. 160; p. 986.
Tire-tightener. G. A. Ryan. No. 949,663; Feb. 15; Sp. p. 3914; Gaz. vol. 151; p. 682.
Tire-tightener. R. B. Smith. No. 976,514; Nov. 22; Sp. p. 5371; Gaz. vol. 160; p. 911.
Tire-tightener or tire-setter. W. Schau. No. 948,638; Feb. 8; Sp. p. 1824; Gaz. vol. 151; p. 313.
Tire-tool. S. Alley. No. 949,561; Feb. 15; Sp. p. 3739; Gaz. vol. 151; p. 650.
Tire-tool. P. F. Bellew. No. 965,858; Aug. 2; Sp. p. 23; Gaz. vol. 157; p. 6.
Tire tool, Vehicle-. C. H. Frazier. No. 979,279; Dec. 20; Sp. p. 4055; Gaz. vol. 161; p. 697.
Tire-tread. D. T. O'Sullivan. No. 954,333; Apr. 5; Sp. p. 1364; Gaz. vol. 153; p. 226.
Tire-tread attachment. O. A. Rixford. No. 978,210; Dec. 13; Sp. p. 1722; Gaz. vol. 161; p. 303.
Tire tread, Detachable automobile-. H. M. Pitman. No. 969,721; Sept. 6; Sp. p. 1205; Gaz. vol. 158; p. 194.
Tire tread, Detachable automobile-. H. M. Pitman. No. 969,722; Sept. 6; Sp. p. 1205; Gaz. vol. 158; p. 194.
Tire-tread, Motor-vehicle. M. A. Kennedy. No. 979,008; Dec. 20; Sp. p. 3435; Gaz. vol. 161; p. 603.
Tire tread, Pneumatic-. F. G. Ward. No. 954,232; Apr. 5; Sp. p. 1151; Gaz. vol. 153; p. 191.
Tire-valve, Automatic-alarm. F. F. Ashmore. No. 960,246; June 7; Sp. p. 7; Gaz. vol. 155; p. 4.
Tire, Vehicle-. E. P. White. No. 945,115; Jan. 4; Sp. p. 224; Gaz. vol. 150; p. 38.
Tire, Vehicle-. L. E. Clawson and F. L. Dow. No. 947,371; Jan. 25; Sp. p. 5271; Gaz. vol. 150; p. 886.
Tire, Vehicle-. H. S. Firestone. No. 947,543; Jan. 25; Sp. p. 5674; Gaz. vol. 150; p. 943.
Tire, Vehicle-. W. J. Courtney. No. 949,060; Feb. 15; Sp. p. 2702; Gaz. vol. 151; p. 481.
Tire, Vehicle-. W. A. Köneman. No. 949,375; Feb. 15; Sp. p. 3359; Gaz. vol. 151; p. 587.
Tire, Vehicle-. W. W. Scott. No. 952,951; Mar. 22; Sp. p. 5095; Gaz. vol. 152; p. 915.
Tire, Vehicle-. B. C. Swinehart. No. 954,224; Apr. 5; Sp. p. 1136; Gaz. vol. 153; p. 189.
Tire, Vehicle-. H. O. Clark. No. 954,255; Apr. 5; Sp. p. 1187; Gaz. vol. 153; p. 198.

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Tire, Vehicle-. H. B. Tobias. No. 954,361; Apr. 5; Sp. p. 1412; Gaz. vol. 153; p. 234.
Tire, Vehicle-. I. B. Kempshall. No. 957,166; May 3; Sp. p. 1421; Gaz. vol. 154; p. 228.
Tire, Vehicle-. J. Allend. No. 959,041; May 24; Sp. p. 5699; Gaz. vol. 154; p. 957.
Tire, Vehicle-. J. W. Carhart. No. 959,457; May 31; Sp. p. 6557; Gaz. vol. 154; p. 1120.
Tire, Vehicle-. J. A. Wright. No. 960,135; May 31; Sp. p. 8042; Gaz. vol. 154; p. 1351.
Tire, Vehicle-. J. C. Schleicher. No. 961,374; June 14; Sp. p. 2333; Gaz. vol. 155; p. 412.
Tire, Vehicle-. E. W. and P. J. Evans. No. 967,506; Aug. 16; Sp. p. 3581; Gaz. vol. 157; p. 614.
Tire, Vehicle-. J. A. Keller. No. 967,643; Aug. 16; Sp. p. 3843; Gaz. vol. 157; p. 660.
Tire, Vehicle-. J. E. Harrison. No. 968,941; Aug. 30; Sp. p. 6615; Gaz. vol. 157; p. 1152.
Tire, Vehicle-. W. D. McNaull. No. 970,535; Sept. 20; Sp. p. 2966; Gaz. vol. 158; p. 517.
Tire, Vehicle-. A. Crowe and J. E. Kinzel. No. 974,124; Nov. 1; Sp. p. 35; Gaz. vol. 160; p. 9.
Tire, Vehicle-. S. A. Douglas. No. 975,220; Nov. 8; Sp. p. 2595; Gaz. vol. 160; p. 419.
Tire, Vehicle-. A. J. Wilson. No. 975,816; Nov. 15; Sp. p. 3840; Gaz. vol. 160; p. 647.
Tire, Vehicle-. P. B. Bosworth. No. 977,585; Dec. 6; Sp. p. 394; Gaz. vol. 161; p. 57.
Tire, Vehicle-wheel. J. Cairns. No. 948,389; Feb. 8; Sp. p. 1288; Gaz. vol. 151; p. 231.
Tire, Vehicle-wheel. A. T. Scaramuzzi. No. 956,735; May 3; Sp. p. 505; Gaz. vol. 154; p. 81.
Tire, Vehicle-wheel. F. Wiechard. No. 960,212; May 31; Sp. p. 8188; Gaz. vol. 154; p. 1378.
Tire, Vehicle-wheel. J. Cairns. No. 975,829; Nov. 15; Sp. p. 3861; Gaz. vol. 160; p. 652.
Tire, Vehicle-wheel. N. Guthrie and C. L. Johnson. No. 978,019; Dec. 6; Sp. p. 1289; Gaz. vol. 161; p. 206.
Tire, Vehicle-wheel cushion-. C. Weichelt. No. 947,535; Jan. 25; Sp. p. 5659; Gaz. vol. 150; p. 940.
Tire, Vehicle-wheel cushion-. L. L. Savoie. No. 967,065; Aug. 9; Sp. p. 2650; Gaz. vol. 157; p. 436.
Tire-ventilating device. D. Rawstron. No. 972,129; Oct. 4; Sp. p. 1332; Gaz. vol. 159; p. 224.
Tire, Wheel-. H. H. Hodgson. No. 946,044; Jan. 11; Sp. p. 2296; Gaz. vol. 150; p. 382.
Tire, Wheel-. A. G. Thomson. No. 950,416; Feb. 22; Sp. p. 5561; Gaz. vol. 151; p. 975.
Tire, Wheel-. G. W. Crawford. No. 955,053; Apr. 12; Sp. p. 2947; Gaz. vol. 153; p. 499.
Tire, Wheel-. B. Dahl. No. 960,001; May 31; Sp. p. 7756; Gaz. vol. 154; p. 1306.
Tire, Wheel-. T. Midgley. No. 962,778; June 28; Sp. p. 5363; Gaz. vol. 155; p. 937.
Tire, Wheel-. C. E. Blechschmidt. No. 963,271; July 5; Sp. p. 625; Gaz. vol. 156; p. 87.
Tire, Wheel-. J. C. Lighthouse. No. 969,890; Sept. 13; Sp. p. 1614; Gaz. vol. 158; p. 278.
Tire, Wheel-. S. Grunewald. No. 971,267; Sept. 27; Sp. p. 4531; Gaz. vol. 158; p. 792.
Tire wrapping and unwrapping machine. N. E. Raber. No. 958,309; May 17; Sp. p. 4177; Gaz. vol. 154; p. 682.
Tires and fellies, Boring and bolt-inserting machine for. E. Funk. No. 956,071; Apr. 26; Sp. p. 5162; Gaz. vol. 153; p. 910.
Tires and forming same, Reinforcement for pneumatic. C. F. Murray. No. 949,156; Feb. 15; Sp. p. 2898; Gaz. vol. 151; p. 513.
Tires and spokes in fellies, Tightening. A. B. Smith. No. 965,341; July 26; Sp. p. 5059; Gaz. vol. 156; p. 870.
Tires, Cap for valve-stems for pneumatic. G. F. Foss. No. 959,867; May 24; Sp. p. 5354; Gaz. vol. 154; p. 899.
Tires, Chain shield for pneumatic. L. W. Noyes. No. 961,791; June 21; Sp. p. 3200; Gaz. vol. 155; p. 574.
Tires, Composition of matter for repair of pneumatic. J. H. Lewis. No. 961,144; June 14; Sp. p. 1820; Gaz. vol. 155; p. 330.
Tires, Core for manufacturing pneumatic. J. K. Williams. No. 948,489; Feb. 8; Sp. p. 1498; Gaz. vol. 151; p. 265.
Tires, Demountable rim for automobile-. W. N. Booth. No. 954,416; Apr. 12; Sp. p. 1525; Gaz. vol. 153; p. 280.
Tires, Detachable fastening for pneumatic. P. B. Bosworth. No. 977,587; Dec. 6; Sp. p. 396; Gaz. vol. 161; p. 58.
Tires, External armor for pneumatic. J. L. La Driere. No. 958,748; May 24; Sp. p. 5062; Gaz. vol. 154; p. 855.
Tires, External guard for pneumatic. J. L. La Driere. No. 956,110; Apr. 26; Sp. p. 5244; Gaz. vol. 153; p. 912.
Tires, Grip-tread for. H. D. Weed. No. 953,673; Mar. 29; Sp. p. 6655; Gaz. vol. 152; p. 1187.
Tires, Inner tube for pneumatic. J. H. Brown. No. 956,884; May 3; Sp. p. 841; Gaz. vol. 154; p. 133.
Tires, Joint-tie for cushion-. F. Buob. No. 956,625; May 3; Sp. p. 255; Gaz. vol. 154; p. 43.
Tires, Making cushion vehicle-. J. A. MacMillan. No. 966,031; Aug. 2; Sp. p. 409; Gaz. vol. 157; p. 65.
Tires, Making rubber. H. Z. Cobb. No. 969,131; Aug. 30; Sp. p. 7002; Gaz. vol. 157; p. 1218.
Tires, Making shoes for automobile and other vehicle. R. Rowley and J. J. Coomber. No. 962,054; June 21; Sp. p. 3779; Gaz. vol. 155; p. 663.
Tires, Means for automatically inflating pneumatic. R. Connell. No. 961,104; June 14; Sp. p. 1749; Gaz. vol. 155; p. 318.
Tires, Mechanism for manufacturing pneumatic. T. Sloper. No. 961,172; June 14; Sp. p. 1879; Gaz. vol. 155; p. 341.
Tires, Metallic casing for pneumatic. B. J. Kingston and J. H. Lane. No. 975,693; Nov. 15; Sp. p. 3597; Gaz. vol. 160; p. 606.
Tires of motor-cars and other carriages, Metallic fabric suitable for pneumatic. C. M. Gautier. No. 978,731; Dec. 13; Sp. p. 2848; Gaz. vol. 161; p. 483.
Tires of vehicle-wheels, Manufacture of india-rubber for elastic. E. Poizot. No. 963,806; July 12; Sp. p. 1744; Gaz. vol. 156; p. 289.
Tires, Pressure-regulating device for pneumatic. C. J. Brosnan. No. 961,427; June 14; Sp. p. 2433; Gaz. vol. 155; p. 429.
Tires, Process of and apparatus for lining pneumatic. W. Baird. No. 951,980; Mar. 15; Sp. p. 3090; Gaz. vol. 152; p. 558.
Tires, Protecting-cover for pneumatic. A. Constantin. No. 957,413; May 10; Sp. p. 1973; Gaz. vol. 154; p. 342.
Tires, Protective tread for pneumatic. C. E. Titus. No. 973,999; Oct. 25; Sp. p. 5427; Gaz. vol. 159; p. 940.
Tires, Puncture-guard for pneumatic. T. H. Prince. No. 979,699; Dec. 27; Sp. p. 4918; Gaz. vol. 161; p. 862.
Tires, Puncture-proof guard for pneumatic. G. S. Crawford. No. 978,274; Dec. 13; Sp. p. 1864; Gaz. vol. 161; p. 327.
Tires, Reinforcement for pneumatic. A. L. Murray. No. 946,557; Jan. 18; Sp. p. 3472; Gaz. vol. 150; p. 584.
Tires, Removable wheel-rim for pneumatic. R. Kronenberg. No. 975,137; Nov. 8; Sp. p. 2402; Gaz. vol. 160; p. 390.
Tires to vehicle-wheels, Means for securing. C. G. Cabanne. No. 962,814; June 28; Sp. p. 5435; Gaz. vol. 155; p. 950.
Tires, Tool for putting on and removing pneumatic. L. F. Carle. No. 965,076; July 19; Sp. p. 4503; Gaz. vol. 156; p. 749.
Tires, Tread for pneumatic. J. C. Schleicher. No. 974,602; Nov. 1; Sp. p. 1196; Gaz. vol. 160; p. 183.
Tires, &c., Vulcanizer for repairing rubber. V. H. Meyer. No. 949,154; Feb. 15; Sp. p. 2894; Gaz. vol. 151; p. 512.
Titanium-nitrogen compounds, Production of. C. Bosch. No. 957,842; May 10; Sp. p. 2833; Gaz. vol. 154; p. 486.
Toaster. M. A. Patterson. No 947,549; Jan. 25; Sp. p. 5688; Gaz. vol. 150; p. 944.
Toaster. F. E. Hoffman. No. 976,364; Nov. 22; Sp. p. 5055; Gaz. vol. 160; p. 858.
Toaster, Bread-. A. A. Hill. No. 969,475; Sept. 6; Sp. p. 681; Gaz. vol. 158; p. 108.
Toaster, Electric. L. F. Parkhurst. No. 951,287; Mar. 8; Sp. p. 1669; Gaz. vol. 152; p. 296.
Toaster, Electric. J. I. Ayer. No. 951,765; Mar. 8; Sp. p. 2642; Gaz. vol. 152; p. 457.
Toaster, Electric. W. S. Hadaway, Jr. No. 977,626; Dec. 6; Sp. p. 472; Gaz. vol. 161; p. 71.
Toaster, heater, and warmer. F. G. Dupell. No. 969,093; Aug. 30; Sp. p. 6916; Gaz. vol. 157; p. 1204.
Toasting and broiling pan. W. P. Scherer. No. 965,755; July 26; Sp. p. 5958; Gaz. vol. 156; p. 1012.
Tobacco and other materials, Mechanism for treating. F. R. Willson, Jr. No. 951,978; Mar. 15; Sp. p. 3088; Gaz. vol. 152; p. 557.
Tobacco-box fastening. P. F. and A. E. MaGee. No. 969,550; Sept. 6; Sp. p. 861; Gaz. vol. 158; p. 136.
Tobacco-cleaning machine. C. M. Spierer. No. 973,228; Oct. 18; Sp. p. 3807; Gaz. vol. 159; p. 651.
Tobacco-conditioning machine. C. R. Mahone. No. 953,214; Mar. 29; Sp. p. 5668; Gaz. vol. 152; p. 1030.
Tobacco cutter, Plug-. J. H. Bassett. No. 945,077; Jan. 4; Sp. p. 148; Gaz. vol. 150; p. 25.
Tobacco-lath. C. G. Wells. No. 965,055; July 19; Sp. p. 4459; Gaz. vol. 156; p. 742.
Tobacco-leaf-stringing machine. O. and A. Graf. No. 979,287; Dec. 20; Sp. p. 4071; Gaz. vol. 161; p. 700.
Tobacco-leaves, Stemming. J. O. Morris. No. 961,746; June 14; Sp. p. 3108; Gaz. vol. 155; p. 536.
Tobacco, &c., Machine for treating. W. Miller. No. 951,650; Mar. 8; Sp. p. 2405; Gaz. vol. 152; p. 417.
Tobacco-moistener. A. Falk. No. 946,499; Jan. 11; Sp. p. 3355; Gaz. vol. 150; p. 539.
Tobacco-moistener. J. C. Duncan. No. 950,378; Feb. 22; Sp. p. 5494; Gaz. vol. 151; p. 962.
Tobacco-moistener. E. C. Madary. No. 964,442; July 12; Sp. p. 3031; Gaz. vol. 156; p. 500.
Tobacco-moistener. C. B. De Lano. No. 977,374; Nov. 29; Sp. p. 7266; Gaz. vol. 160; p. 1233.
Tobacco-moistener. R. Raabe. No. 980,127; Dec. 27; Sp. p. 5887; Gaz. vol. 161; p. 1005.
Tobacco, Moistening. H. W. Foote and E. K. Smith. No. 949,701; Feb. 15; Sp. p. 3994; Gaz. vol. 151; p. 694.
Tobacco-moistening device. M. Falk. No. 965,381; July 26; Sp. p. 5140; Gaz. vol. 156; p. 882.

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Tobacco-mold, Carrot. A. La Chance. No. 976,886; Nov. 29; Sp. p. 6180; Gaz. vol. 160; p. 1064.
Tobacco-ordering machine. B. W. Ginn. No. 975,412; Nov. 15; Sp. p. 2989; Gaz. vol. 160; p. 508.
Tobacco-packet and apparatus for charging pipes from same. B. Baron. No. 945,676; Jan. 4; Sp. p. 1429; Gaz. vol. 150; p. 223.
Tobacco-pipe. J. F. Miles. No. 945,973; Jan. 11; Sp. p. 2152; Gaz. vol. 150; p. 358.
Tobacco-pipe. J. R. Perry. No. 948,635; Feb. 8; Sp. p. 1814; Gaz. vol. 151; p. 312.
Tobacco-pipe. F. W. Smith. No. 951,030; Mar. 1; Sp. p. 1157; Gaz. vol. 152; p. 189.
Tobacco-pipe. W. E. Elam. No. 951,308; Mar. 8; Sp. p. 1720; Gaz. vol. 152; p. 303.
Tobacco-pipe. J. Madrow. No. 951,569; Mar. 8; Sp. p. 2246; Gaz. vol. 152; p. 390.
Tobacco-pipe. A. L. Black. No. 953,585; Mar. 29; Sp. p. 6475; Gaz. vol. 152; p. 1157.
Tobacco-pipe. H. Willis. No. 957,922; May 17; Sp. p. 3036; Gaz. vol. 154; p. 545.
Tobacco-pipe. A. N. Malcomb. No. 960,181; May 31; Sp. p. 8127; Gaz. vol. 154; p. 1367.
Tobacco-pipe. J. W. Steward. No. 960,429; June 7; Sp. p. 386; Gaz. vol. 155; p. 64.
Tobacco-pipe. J. R. Perry. No. 961,255; June 14; Sp. p. 2056; Gaz. vol. 155; p. 370.
Tobacco-pipe. W. Neve. No. 961,790; June 21; Sp. p. 3199; Gaz. vol. 155; p. 574.
Tobacco-pipe. H. E. Whitney. No. 963,194; July 5; Sp. p. 424; Gaz. vol. 156; p. 60.
Tobacco-pipe. C. A. Jánsson. No. 966,021; Aug. 2; Sp. p. 384; Gaz. vol. 157; p. 61.
Tobacco-pipe. W. H. J. Downey. No. 967,348; Aug. 16; Sp. p. 3240; Gaz. vol. 157; p. 561.
Tobacco-pipe. E. H. Johnson. No. 968,160; Aug. 23; Sp. p. 4967; Gaz. vol. 157; p. 857.
Tobacco-pipe. R. Loske. No. 970,632; Sept. 20; Sp. p. 3206; Gaz. vol. 158; p. 551.
Tobacco-pipe. G. P. Tobias. No. 972,737; Oct. 11; Sp. p. 2674; Gaz. vol. 159; p. 453.
Tobacco-pipe. A. E. Matson. No. 973,870; Oct. 25; Sp. p. 5153; Gaz. vol. 159; p. 895.
Tobacco-pipe. W. M. Keenan. No. 975,251; Nov. 8; Sp. p. 2656; Gaz. vol. 160; p. 429.
Tobacco-pipe. F. J. Kieser. No. 975,363; Nov. 8; Sp. p. 2880; Gaz. vol. 160; p. 465.
Tobacco-pipe. J. B. MacLaughlin. No. 976,892; Nov. 29; Sp. p. 6190; Gaz. vol. 160; p. 1065.
Tobacco-pipe. H. F. Schulte. No. 976,936; Nov. 29; Sp. p. 6308; Gaz. vol. 160; p. 1081.
Tobacco-pipe. A. Q. Walsh. No. 977,910; Dec. 6; Sp. p. 1061; Gaz. vol. 161; p. 169.
Tobacco-pipe. P. P. Sullivan. No. 979,352; Dec. 20; Sp. p. 4177; Gaz. vol. 161; p. 721.
Tobacco-pouch. A. Kohout. No. 954,034; Apr. 5; Sp. p. 705; Gaz. vol. 153; p. 124.
Tobacco-press. W. L. and R. L. Russell. No. 966,126; Aug. 2; Sp. p. 592; Gaz. vol. 157; p. 97.
Tobacco-shield. J. H. Scott. No. 958,015; May 17; Sp. p. 3320; Gaz. vol. 154; p. 578.
Tobacco-smoke, Smoking-filter for the removal of the impurities from. L. Campo. No. 964,489; July 19; Sp. p. 3153; Gaz. vol. 156; p. 548.
Tobacco-smoking pipe. W. E. Hooker. No. 958,398; May 17; Sp. p. 4366; Gaz. vol. 154; p. 713.
Tobacco-spearing machine. C. M. Gullickson. No. 945,717; Jan. 4; Sp. p. 1518; Gaz. vol. 150; p. 237.
Tobacco-stemming machine. J. O. Morris. No. 959,375; May 24; Sp. p. 6386; Gaz. vol. 154; p. 1067.
Tobacco-stemming machine. J. O. Morris. No. 961,635; June 14; Sp. p. 2884; Gaz. vol. 155; p. 499.
Tobacco-stringing machine. C. G. Wells. No. 971,580; Oct. 4; Sp. p. 147; Gaz. vol. 159; p. 27.
Tobacco-stripping machine. C. F. Hall. No. 948,136; Feb. 1; Sp. p. 731; Gaz. vol. 151; p. 120.
Tobacco supple, Making. F. Evers. No. 973,768; Oct. 25; Sp. p. 4942; Gaz. vol. 159; p. 860.
Tobacco-wringer. H. J. Averbeck and B. W. Ginn. No. 975,388; Nov. 15; Sp. p. 2953; Gaz. vol. 160; p. 501.
Toggle. H. H. Cummings. No. 970,422; Sept. 13; Sp. p. 2706; Gaz. vol. 158; p. 457.
Toggle-bolt. A. L. Ellis. No. 965,845; July 26; Sp. p. 6154; Gaz. vol. 156; p. 1043.
Toggle-bolt. J. Kennedy. No. 978,380; Dec. 13; Sp. p. 2082; Gaz. vol. 161; p. 363.
Toggle-bolt. J. E. Goewey. No. 979,841; Dec. 27; Sp. p. 5260; Gaz. vol. 161; p. 911.
Toggle-press, Double-action. O. Smith. No. 968,608; Aug. 30; Sp. p. 5899; Gaz. vol. 157; p. 1039.
Toilet. M. E. Connelly. No. 968,541; Aug. 30; Sp. p. 5767; Gaz. vol. 157; p. 1015.
Toilet. G. J. Burkhardt. No. 971,826; Oct. 4; Sp. p. 654; Gaz. vol. 159; p. 115.
Toilet accessory. O. Vale. No. 957,016; May 3; Sp. p. 1122; Gaz. vol. 154; p. 176.
Toilet and dressing table. G. M. Utterback. No. 970,143; Sept. 13; Sp. p. 2133; Gaz. vol. 158; p. 364.
Toilet article. P. H. Watson. No. 958,339; May 17; Sp. p. 4249; Gaz. vol. 154; p. 693.
Toilet article. J. A. W. Stuart. (Reissue.) No. 13,149; Sept. 6; Sp. p. 1326; Gaz. vol. 158; p. 211.
Toilet articles for personal wear, Apparatus for making. J. Wilcox. No. 971,712; Oct. 4; Sp. p. 418; Gaz. vol. 159; p. 73.
Toilet articles for personal wear, Making. J. Wilcox. No. 951,497; Mar. 8; Sp. p. 2112; Gaz. vol. 152; p. 366.
Toilet-box. D. Niemand. No. 945,189; Jan. 4; Sp. p. 373; Gaz. vol. 150; p. 63.
Toilet-cabinet. M. Schultz. No. 954,143; Apr. 5; Sp. p. 929; Gaz. vol. 153; p. 161.
Toilet-comb. F. E. Youngs. No. 952,491; Mar. 22; Sp. p. 4111; Gaz. vol. 152; p. 757.
Toilet-comb. J. M. McCall. No. 966,113; Aug. 2; Sp. p. 566; Gaz. vol. 157; p. 92.
Toilet-fittings, Sanitary support for. L. D. Bayley. No. 955,247; Apr. 19; Sp. p. 3352; Gaz. vol. 153; p. 598.
Toilet or vanity box. S. Davis. No. 963,212; July 5; Sp. p. 481; Gaz. vol. 156; p. 66.
Toilet-seat attachment. O. A. Berger. No. 949,562; Feb. 15; Sp. p. 3741; Gaz. vol. 151; p. 650.
Toilet-seat, Collapsible. H. B. Vanosdall and C. E. Enck. No. 957,822; May 10; Sp. p. 2793; Gaz. vol. 154; p. 480.
Toilet-stick holder. A. L. Weissenthanner. No. 975,092; Nov. 8; Sp. p. 2290; Gaz. vol. 160; p. 374.
Toilet utensil. B. Reynolds. No. 977,129; Nov. 29; Sp. p. 6748; Gaz. vol. 160; p. 1149.
Tombstone. E. A. Newman. No. 965,000; July 19; Sp. p. 4350; Gaz. vol. 156; p. 725.
Tongs. V. D. Carroll. No. 958,594; May 17; Sp. p. 4745; Gaz. vol. 154; p. 779.
Tongs. G. E. Thurston. No. 967,463; Aug. 16; Sp. p. 3475; Gaz. vol. 157; p. 599.
Tongs. J. W. Lewis. No. 967,791; Aug. 16; Sp. p. 4143; Gaz. vol. 157; p. 710.
Tongs. L. E. Funk. No. 973,862; Oct. 25; Sp. p. 5131; Gaz. vol. 159; p. 891.
Tongs, Bag-. A. Holsey. No. 969,695; Sept. 6; Sp. p. 1144; Gaz. vol. 158; p. 185.
Tongs, Barrel-. S. L. Coley. No. 950,437; Feb. 22; Sp. p. 5600; Gaz. vol. 151; p. 982.
Tongs, Bending-. S. H. Smith. No. 946,567; Jan. 18; Sp. p. 3488; Gaz. vol. 150; p. 587.
Tongs, Casing-. C. W. Stone. No. 955,560; Apr. 19; Sp. p. 4011; Gaz. vol. 153; p. 703.
Tongs, Chain. P. Farrell. No. 968,335; Aug. 23; Sp. p. 5334; Gaz. vol. 157; p. 919.
Tongs, Clothes-. W. J. and A. Ott. No. 958,938; May 24; Sp. p. 5499; Gaz. vol. 154; p. 923.
Tongs for forming tube-joints, Band-. S. A. Bergh. No. 949,411; Feb. 15; Sp. p. 3445; Gaz. vol. 151; p. 601.
Tongs for sheet metal. F. J. Veiox. No. 956,910; May 3; Sp. p. 897; Gaz. vol. 154; p. 142.
Tongs, Gripping-. E. A. Bole. No. 952,095; Mar. 15; Sp. p. 3302; Gaz. vol. 152; p. 595.
Tongs, Mechanically-operated. R. F. Devine. No. 976,052; Nov. 15; Sp. p. 4296; Gaz. vol. 160; p. 728.
Tongs, Pipe-. J. A. Gillespie and M. J. Corey. No. 946,506; Jan. 11; Sp. p. 3377; Gaz. vol. 150; p. 542.
Tongs, Pipe-. G. A. Lane. No. 963,903; July 12; Sp. p. 1953; Gaz. vol. 156; p. 321.
Tongue and groove cutter, Dovetail. C. Bodmer. No. 962,885; June 28; Sp. p. 5576; Gaz. vol. 155; p. 975.
Tongue, Automatic. F. X. Lauterbur. No. 970,244; Sept. 13; Sp. p. 2369; Gaz. vol. 158; p. 399.
Tongue circles, Truss-rod for buggy-. A. J. Kremlacek. No. 969,063; Aug. 30; Sp. p. 6859; Gaz. vol. 157; p. 1194.
Tongue for plows or cultivators. J. P. Jones. No. 947,158; Jan. 18; Sp. p. 4746; Gaz. vol. 150; p. 782.
Tongue, Flexible. I. Lester. No. 963,782; July 12; Sp. p. 1677; Gaz. vol. 156; p. 280.
Tongue-hounds, Adjustable pattern for. N. J. Smith. No. 959,398; May 24; Sp. p. 6425; Gaz. vol. 154; p. 1075.
Tongue-support. P. H. Webber. No. 968,010; Aug. 23; Sp. p. 4616; Gaz. vol. 157; p. 807.
Tongue support, Wagon-. A. C. Cameron and I. Wynn. No. 964,210; July 12; Sp. p. 2572; Gaz. vol. 156; p. 424.
Tongue support, Wagon-. R. G. Lucas. No. 973,524; Oct. 25; Sp. p. 4435; Gaz. vol. 159; p. 775.
Tongue-switch. C. A. Alden. No. 969,506; Sept. 6; Sp. p. 751; Gaz. vol. 158; p. 119.
Tongue, Wagon-. A. Lindberg. No. 962,366; June 21; Sp. p. 4459; Gaz. vol. 155; p. 769.
Tongue, Wagon-. W. B. Stites. No. 977,568; Dec. 6; Sp. p. 349; Gaz. vol. 161; p. 51.
Tongues, Neck-yoke holder for wagon-. C. H. Lewis. No. 960,566; June 7; Sp. p. 673; Gaz. vol. 155; p. 110.
Tongues, Spring-support for vehicle-. W. F. Reschke. No. 957,096; May 3; Sp. p. 1282; Gaz. vol. 154; p. 204.
Tongues, Spring-support for wagon-. E. Foerster. No. 963,704; July 5; Sp. p. 1486; Gaz. vol. 156; p. 231.
Tonic-applicator, Fountain. C. L. Common. No. 946,837; Jan. 18; Sp. p. 4103; Gaz. vol. 150; p. 678.
Tonnage-equating machine. J. M. Daly. No. 956,688; May 3; Sp. p. 395; Gaz. vol. 154; p. 66.
Tool. C. Westrom. No. 949,030; Feb. 15; Sp. p. 2647; Gaz. vol. 151; p. 471.
Tool. C. C. Taintor. No. 957,271; May 10; Sp. p. 1683; Gaz. vol. 154; p. 295.

Alphabetical list of inventions—Continued.

Tool. N. M. Hansen. No. 958,807; May 24; Sp. p. 5203; Gaz. vol. 154; p. 877.
Tool. H. E. Jordon and D. A. Sullivan. No. 961,617; June 14; Sp. p. 2849; Gaz. vol. 155; p. 492.
Tool. E. C. Thorschmidt. No. 973,724; Oct. 25; Sp. p. 4854; Gaz. vol. 159; p. 844.
Tool. E. C. Thorschmidt. No. 973,725; Oct. 25; Sp. p. 4855; Gaz. vol. 159; p. 844.
Tool. M. L. Cochran. No. 975,210; Nov. 8; Sp. p. 2579; Gaz. vol. 160; p. 416.
Tool, Adjustable. P. F. Connelly. No. 980,067; Dec. 27; Sp. p. 5724; Gaz. vol. 161; p. 985.
Tool and tool-holder. A. K. Rosenbeck. No. 969,983; Sept. 13; Sp. p. 1814; Gaz. vol. 158; p. 309.
Tool-bag. T. J. Younglove. No. 958,347; May 17; Sp. p. 4260; Gaz. vol. 154; p. 695.
Tool-carrier, Motor-driven. A. Brien. No. 972,327; Oct. 11; Sp. p. 1762; Gaz. vol. 159; p. 310.
Tool-case. G. Stockinger. No. 953,930; Apr. 5; Sp. p. 490; Gaz. vol. 153; p. 89.
Tool-chest. W. H. Colby. No. 978,358; Dec. 13; Sp. p. 2033; Gaz. vol. 161; p. 354.
Tool-chest, Portable metallic. B. A. Russell. No. 949,502; Feb. 15; Sp. p. 3608; Gaz. vol. 151; p. 629.
Tool, Combination-. S. P. Peterson. No. 946,519; Jan. 11; Sp. p. 3410; Gaz. vol. 150; p. 546.
Tool, Combination-. F. H. Koerner. No. 947,002; Jan. 18; Sp. p. 4456; Gaz. vol. 150; p. 734.
Tool, Combination-. P. F. Pilliner. No. 951,200; Mar. 8; Sp. p. 1488; Gaz. vol. 152; p. 269.
Tool, Combination-. W. Ducharme. No. 951,367; Mar. 8; Sp. p. 1845; Gaz. vol. 152; p. 322.
Tool, Combination-. J. I. Shaw and I. F. Stroup. No. 952,473; Mar. 22; Sp. p. 4065; Gaz. vol. 152; p. 751.
Tool, Combination-. T. P. Tivy. No. 953,806; Apr. 5; Sp. p. 251; Gaz. vol. 153; p. 44.
Tool, Combination-. C. Druck. No. 957,044; May 3; Sp. p. 1173; Gaz. vol. 154; p. 186.
Tool, Combination-. P. A. Peterson. No. 960,193; May 31; Sp. p. 8153; Gaz. vol. 154; p. 1371.
Tool, Combination-. J. C. Dikes. No. 963,124; July 5; Sp. p. 254; Gaz. vol. 156; p. 34.
Tool, Combination-. N. McAslan. No. 964,532; July 19; Sp. p. 3266; Gaz. vol. 156; p. 563.
Tool, Combination-. D. W. Kinsel and P. Wogoman. No. 965,198; July 26; Sp. p. 4744; Gaz. vol. 156; p. 821.
Tool, Combination-. J. H. Dunstan. No. 966,321; Aug. 2; Sp. p. 993; Gaz. vol. 157; p. 160.
Tool, Combination-. E. Oehrle. No. 968,679; Aug. 30; Sp. p. 6088; Gaz. vol. 157; p. 1065.
Tool, Combination-. G. T. Parsley. No. 971,012; Sept. 20; Sp. p. 3971; Gaz. vol. 158; p. 679.
Tool, Combination-. J. Middleton. No. 976,674; Nov. 22; Sp. p. 5707; Gaz. vol. 160; p. 966.
Tool, Compound. J. H. Nantz. No. 948,240; Feb. 1; Sp. p. 940; Gaz. vol. 151; p. 155.
Tool, Compound. D. A. Modrall. No. 977,672; Dec. 6; Sp. p. 569; Gaz. vol. 161; p. 86.
Tool, Convertible. O. Fylling. No. 978,283; Dec. 13; Sp. p. 1882; Gaz. vol. 161; p. 330.
Tool-coupling. S. P. Etter. No. 952,892; Mar. 22; Sp. p. 4971; Gaz. vol. 152; p. 894.
Tool, Double-bladed. O. W. Johnson. No. 978,165; Dec. 13; Sp. p. 1625; Gaz. vol. 161; p. 287.
Tool-driver, Spiral. D. Rioux. No. 973,881; Oct. 25; Sp. p. 5179; Gaz. vol. 159; p. 900.
Tool-driver, Spiral. F. E. Davis. No. 979,132; Dec. 20; Sp. p. 3739; Gaz. vol. 161; p. 647.
Tool-driver, Spiral. T. J. Fegley and G. O. Leopold. No. 979,939; Dec. 27; Sp. p. 5456; Gaz. vol. 161; p. 942.
Tool-driving appliance. J. M. Palmer. No. 965,735; July 26; Sp. p. 5911; Gaz. vol. 156; p. 1005.
Tool-driving mechanism. H. W. Jacobs. No. 959,863; May 31; Sp. p. 7431; Gaz. vol. 154; p. 1257.
Tool, Electrically-heated. W. G. Clark. No. 961,103; June 14; Sp. p. 1748; Gaz. vol. 155; p. 317.
Tool, Electropneumatic. J. T. Hillhouse. No. 979,164; Dec. 20; Sp. p. 3804; Gaz. vol. 161; p. 659.
Tool, Expansion-. A. Soderlund. No. 964,704; July 19; Sp. p. 3750; Gaz. vol. 156; p. 623.
Tool-fishing apparatus. A. C. Graham. No. 967,759; Aug. 16; Sp. p. 4082; Gaz. vol. 157; p. 699.
Tool, Fluid-pressure-actuated impact-. G. H. Gilman. No. 974,375; Nov. 1; Sp. p. 672; Gaz. vol. 160; p. 101.
Tool, Fluid-pressure-operated. C. H. Johnson. No. 947,181; Jan. 18; Sp. p. 4791; Gaz. vol. 150; p. 790.
Tool, Fluid-pressure-operated. W. Prellwitz. No. 978,484; Dec. 13; Sp. p. 2309; Gaz. vol. 161; p. 398.
Tool for closing receptacles. J. Nazel and W. E. Barlow. No. 974,908; Nov. 8; Sp. p. 1877; Gaz. vol. 160; p. 310.
Tool for finishing bearings. T. M. Boggs. No. 969,452; Sept. 6; Sp. p. 629; Gaz. vol. 158; p. 100.
Tool, Forming-. O. J. P. Crick. No. 966,658; Aug. 9; Sp. p. 1758; Gaz. vol. 157; p. 300.
Tool-frame. A. Neubert. No. 957,897; May 17; Sp. p. 2964; Gaz. vol. 154; p. 536.
Tool, Hand-. A. G. Lamb. No. 952,570; Mar. 22; Sp. p. 4282; Gaz. vol. 152; p. 784.
Tool-handle. A. M. Summers. No. 953,108; Mar. 29; Sp. p. 5449; Gaz. vol. 152; p. 995.
Tool-handle. W. B. Wankel. No. 953,364; Mar. 29; Sp. p. 6003; Gaz. vol. 152; p. 1079.
Tool-handle. W. Cooper. No. 967,502; Aug. 16; Sp. p. 3575; Gaz. vol. 157; p. 613.
Tool-handle. J. D. Thompson. No. 968,815; Aug. 30; Sp. p. 6360; Gaz. vol. 157; p. 1109.
Tool-handle and tool-handle fastening. T. H. Desper. No. 946,896; Jan. 18; Sp. p. 4252; Gaz. vol. 150; p. 699.
Tool-handle-securing means. W. L. Covert. No. 954,259; Apr. 5; Sp. p. 1194; Gaz. vol. 153; p. 200.
Tool-hanger. O. Rune. No. 954,765; Apr. 12; Sp. p. 2327; Gaz. vol. 153; p. 402.
Tool-head clamp. E. J. Mayer. No. 951,324; Mar. 8; Sp. p. 1759; Gaz. vol. 152; p. 309.
Tool-holder. J. Burt. No. 945,081; Jan. 4; Sp. p. 160; Gaz. vol. 150; p. 26.
Tool-holder. G. A. Barnes. No. 945,674; Jan. 4; Sp. p. 1427; Gaz. vol. 150; p. 223.
Tool-holder. G. A. Barnes. No. 945,675; Jan. 4; Sp. p. 1428; Gaz. vol. 150; p. 223.
Tool-holder. B. M. W. Hanson. No. 948,698; Feb. 8; Sp. p. 1949; Gaz. vol. 151; p. 334.
Tool-holder. C. J. Cluley and J. W. Raby. No. 950,222; Feb. 22; Sp. p. 5189; Gaz. vol. 151; p. 911.
Tool-holder. E. Rawson. No. 951,619; Mar. 8; Sp. p. 2344; Gaz. vol. 152; p. 406.
Tool-holder. F. Shapowalow. No. 952,470; Mar. 22; Sp. p. 4061; Gaz. vol. 152; p. 750.
Tool-holder. R. J. Northam. No. 953,434; Mar. 29; Sp. p. 6149; Gaz. vol. 152; p. 1104.
Tool-holder. W. E. Bassett. No. 953,580; Mar. 29; Sp. p. 6467; Gaz. vol. 152; p. 1156.
Tool-holder. C. Quast. No. 954,049; Apr. 5; Sp. p. 734; Gaz. vol. 153; p. 129.
Tool-holder. J. J. McIntyre. No. 958,936; May 24; Sp. p. 5497; Gaz. vol. 154; p. 922.
Tool-holder. J. L. Stoffer. No. 958,945; May 24; Sp. p. 5509; Gaz. vol. 154; p. 925.
Tool-holder. H. Batchelor. No. 961,203; June 14; Sp. p. 1949; Gaz. vol. 155; p. 352.
Tool-holder. H. B. Robinson. No. 963,068; July 5; Sp p. 81; Gaz. vol. 156; p. 16.
Tool-holder. B. M. W. Hanson. No. 963,144; July 5; Sp. p. 304; Gaz. vol. 156; p. 42.
Tool-holder. W. H. Muehler. No. 963,921; July 12; Sp. p. 1989; Gaz. vol. 156; p. 327.
Tool-holder. B. M. W. Hanson. No. 965,893; Aug. 2; Sp. p. 104; Gaz. vol. 157; p. 17.
Tool-holder. F. P. Kuhn. No. 966,755; Aug. 9; Sp. p. 2012; Gaz. vol. 157; p. 334.
Tool-holder. R. B. Levett. No. 968,776; Aug. 30; Sp. p. 6287; Gaz. vol. 157; p. 1097.
Tool-holder. W. A. Petersen. No. 971,556; Oct. 4; Sp. p. 101; Gaz. vol. 159; p. 19.
Tool-holder. G. R. Lang. No. 973,052; Oct. 18; Sp. p. 3404; Gaz. vol. 159; p. 589.
Tool-holder. C. S. Bonney. No. 973,254; Oct. 18; Sp. p. 3852; Gaz. vol. 159; p. 658.
Tool-holder. F. W. Shillitto. No. 978,226; Dec. 13; Sp. p. 1748; Gaz. vol. 161; p. 308.
Tool holder, Boring-. C. E. Day. No. 971,120; Sept. 27; Sp. p. 4211; Gaz. vol. 158; p. 744.
Tool-holder for lathes, planers, and other working machines. A. H. Rahm. No. 946,947; Jan. 18; Sp. p. 4349; Gaz. vol. 150; p. 715.
Tool-holder, Ratchet. J. Volbert. No. 959,408; May 24; Sp. p. 6442; Gaz. vol. 154; p. 1078.
Tool-holder, Reversible. R. Hedstrom. No. 945,532; Jan. 4; Sp. p. 1133; Gaz. vol. 150; p. 175.
Tool holding and display rack, Ball-bearing. J. L. Cofield. No. 945,223; Jan. 4; Sp. p. 449; Gaz. vol. 150; p. 74.
Tool-holding block. J. C. Buckley. No. 970,177; Sept. 13; Sp. p. 2204; Gaz. vol. 158; p. 375.
Tool-holding device. T. R. Brooks. No. 967,320; Aug. 16; Sp. p. 3182; Gaz. vol. 157; p. 550.
Tool-holding sockets, Forming. A. M. Remington. No. 966,952; Aug. 9; Sp. p. 2410; Gaz. vol. 157; p. 396.
Tool, Hollow. R. A. Schrag. No. 961,540; June 14; Sp. p. 2693; Gaz. vol. 155; p. 467.
Tool, Household-. J. C. Forster. No. 970,206; Sept. 13; Sp. p. 2282; Gaz. vol. 158; p. 386.
Tool, Jointed. W. R. Gardner. No. 964,907; July 19; Sp. p. 4168; Gaz. vol. 156; p. 694.
Tool-kit. A. H. De Voe. No. 972,830; Oct. 18; Sp. p. 2862; Gaz. vol. 159; p. 511.
Tool, Machine-. W. L. Abate. No. 945,665; Jan. 4; Sp. p. 1409; Gaz. vol. 150; p. 220.
Tool of the pliers type. W. R. Ball. No. 971,582; Oct. 4; Sp. p. 154; Gaz. vol. 159; p. 28.
Tool-operating device, Automatic. J. M. Abrams. No. 965,550; July 26; Sp. p. 5535; Gaz. vol. 156; p. 942.
Tool, Pneumatic. H. Schweim. No. 945,815; Jan. 11; Sp. p. 1796; Gaz. vol. 150; p. 301.
Tool, Pneumatic. W. H. Soley. No. 947,861; Feb. 1; Sp. p. 175; Gaz. vol. 151; p. 29.
Tool, Pneumatic. W. H. Keller. No. 949,080; Feb. 15; Sp. p. 2737; Gaz. vol. 151; p. 487.
Tool, Pneumatic. J. A. Gallagher. No. 953,263; Mar. 29; Sp. p. 5775; Gaz. vol. 152; p. 1046.

Tool, Pneumatic. F. M. Iler. No. 955,877; Apr. 26; Sp. p. 4757; Gaz. vol. 153; p. 842.
Tool, Pneumatic. R. A. Norling. No. 977,826; Dec. 6; Sp. p. 886; Gaz. vol. 161; p. 139.
Tool-post. C. A. Johnson. No. 949,078; Feb. 15; Sp. p. 2733; Gaz. vol. 151; p. 486.
Tool-post. W. D. Smith. No. 972,582; Oct. 11; Sp. p. 2346; Gaz. vol. 159; p. 401.
Tool, Ratchet-. H. L. Houghton. No. 963,895; July 12; Sp. p. 1937; Gaz. vol. 156; p. 318.
Tool-rest. F. P. Olds. No. 979,880; Dec. 27; Sp. p. 5336; Gaz. vol. 161; p. 923.
Tool-retainer. H. A. Hillenbrand. No. 950,329; Feb. 22; Sp. p. 5400; Gaz. vol. 151; p. 947.
Tool-retainer for air, electric, or mechanically-driven implements. M. G. Hilpert. No. 959,530; May 31; Sp. p. 6722; Gaz. vol. 154; p. 1144.
Tool-shank. G. E. Hackett. No. 971,039; Sept. 27; Sp. p. 4052; Gaz. vol. 158; p. 718.
Tool-socket. L. Gregson. No. 972,105; Oct. 4; Sp. p. 1274; Gaz. vol. 159; p. 216.
Tool socket and drifting-key, Tang-driven-. G. H. and E. S. Gross. No. 975,522; Nov. 15; Sp. p. 3223; Gaz. vol. 160; p. 549.
Tool throttle-handle, Pneumatic-. W. M. Holden. No. 970,225; Sept. 13; Sp. p. 2329; Gaz. vol. 158; p. 392.
Tool with removable handle. P. O. Petterson. No. 965,742; July 26; Sp. p. 5924; Gaz. vol. 156; p. 1008.
Tools, Attachment for repair-. W. L. Dinsmoor. No. 954,424; Apr. 12; Sp. p. 1537; Gaz. vol. 153; p. 283.
Tools, Centering and driving means for. S. H. Cox. No. 976,346; Nov. 22; Sp. p. 5019; Gaz. vol. 160; p. 852.
Tools, Combination attachment for. D. E. Shaw. No. 953,863; Apr. 5; Sp. p. 362; Gaz. vol. 153; p. 65.
Tools, Machine for shaping heavy. E. N. Mills. No. 971,208; Sept. 27; Sp. p. 4413; Gaz. vol. 158; p. 773.
Tools, Shield for. A. D. Elliott. No. 956,573; May 3; Sp. p. 146; Gaz. vol. 154; p. 25.
Tooth. G. E. Stallman. No. 965,246; July 26; Sp. p. 4841; Gaz. vol. 156; p. 837.
Tooth and crown, Artificial. C. W. Plumley. No. 963,648; July 5; Sp. p. 1374; Gaz. vol. 156; p. 213.
Tooth, Artificial. E. L. Townsend. No. 952,155; Mar. 15; Sp. p. 3424; Gaz. vol. 152; p. 615.
Tooth, Artificial. E. P. Off. No. 953,702; Apr. 5; Sp. p. 41; Gaz. vol. 153; p. 10.
Tooth, Artificial. R. Galloway. No. 963,541; July 5; Sp. p. 1161; Gaz. vol. 156; p. 177.
Tooth, Artificial. F. A. Wienand. No. 965,266; July 26; Sp. p. 4881; Gaz. vol. 156; p. 843.
Tooth, Artificial. J. E. Evans. No. 969,050; Aug. 30; Sp. p. 6827; Gaz. vol. 157; p. 1189.
Tooth, Artificial. F. Z. Hanscom. No. 976,798; Nov. 22; Sp. p. 5970; Gaz. vol. 160; p. 1008.
Tooth-crown. P. Schaefer. No. 959,395; May 24; Sp. p. 6422; Gaz. vol. 154; p. 1074.
Tooth-crown. M. H. Tuttle. No. 967,086; Aug. 9; Sp. p. 2700; Gaz. vol. 157; p. 443.
Tooth-crown. C. E. Coleman. No. 976,153; Nov. 22; Sp. p. 4543; Gaz. vol. 160; p. 786.
Tooth-crowns, Means for forming. F. O. Jaques, Jr. No. 971,274; Sept. 27; Sp. p. 4540; Gaz. vol. 158; p. 794.
Tooth-healing preparation, Preparing a. J. Zehetner. No. 972,316; Oct. 11; Sp. p. 1744; Gaz. vol. 159; p. 306.
Tooth-powder distributer. H. Hoelzer. No. 970,224; Sept. 13; Sp. p. 2328; Gaz. vol. 158; p. 392.
Tooth-regulator. J. Steinbrugge. No. 956,218; Apr. 26; Sp. p. 5506; Gaz. vol. 153; p. 960.
Tooth, Replaceable. F. La Chapelle. No. 959,358; May 24; Sp. p. 6353; Gaz. vol. 154; p. 1062.
Tooth-swage. T. C. Trigger. No. 953,072; Mar. 29; Sp. p. 5349; Gaz. vol. 152; p. 984.
Toothpick. J. G. Strock. No. 958,335; May 17; Sp. p. 4243; Gaz. vol. 154; p. 692.
Toothpick, Composition. A. H. Baird. No. 973,842; Oct. 25; Sp. p. 5096; Gaz. vol. 159; p. 885.
Toothpick-machine. W. W. Tainter and G. P. Stanley. No. 953,360; Mar. 29; Sp. p. 5994; Gaz. vol. 152; p. 1078.
Top. S. Gropper. No. 951,186; Mar. 8; Sp. p. 1460; Gaz. vol. 152; p. 264.
Top. S. H. Law, Sr. No. 952,913; Mar. 22; Sp. p. 5016; Gaz. vol. 152; p. 901.
Top-lift-compressing machine. C. P. Stanbon. No. 966,485; Aug. 9; Sp. p. 1364; Gaz. vol. 157; p. 241.
Top-prop. F. A. Neider. No. 956,722; May 3; Sp. p. 478; Gaz. vol. 154; p. 77.
Top-spinner. E. Friz. No. 969,264; Sept. 6; Sp. p. 244; Gaz. vol. 158; p. 40.
Top, Spinning-. W. Hollendung. No. 968,157; Aug. 23; Sp. p. 4963; Gaz. vol. 157; p. 856.
Top, Spinning-. C. B. Winzer. No. 974,731; Nov. 1; Sp. p. 1477; Gaz. vol. 160; p. 228.
Top-spinning device. A. Anderson. No. 945,484; Jan. 4; Sp. p. 1020; Gaz. vol. 150; p. 160.
Top-spinning device. C. C. Tannert. No. 971,420; Sept. 27; Sp. p. 4808; Gaz. vol. 158; p. 841.
Torch. C. Johnson. No. 969,875; Sept. 13; Sp. p. 1586; Gaz. vol. 158; p. 273.
Torch. N. J. Anderson. No. 976,717; Nov. 22; Sp. p. 5787; Gaz. vol. 160; p. 979.
Torch, Contractor's. A. F. Jenkins. No. 962,640; June 28; Sp. p. 5078; Gaz. vol. 155; p. 888.
Torch, Plumber's. W. Gierth. No. 965,136; July 19; Sp. p. 4612; Gaz. vol. 156; p. 769.
Torch, Vapor-. T. Yates. No. 957,292; May 10; Sp. p. 1727; Gaz. vol. 154; p. 302.
Torches, Attachment for blow-. O. Bernz. No. 955,313; Apr. 19; Sp. p. 3489; Gaz. vol. 153; p. 619.
Torpedo. M. Glass. No. 957,670; May 10; Sp. p. 2494; Gaz. vol. 154; p. 431.
Torpedo. E. Bourdelles. No. 958,990; May 24; Sp. p. 5595; Gaz. vol. 154; p. 941.
Torpedo. C. Davis. No. 964,147; July 12; Sp. p. 2460; Gaz. vol. 156; p. 404.
Torpedo. C. Davis. No. 964,148; July 12; Sp. p. 2462; Gaz. vol. 156; p. 404.
Torpedo and the like. K. O. Leon. No. 952,451; Mar. 22; Sp. p. 4012; Gaz. vol. 152; p. 743.
Torpedo, Automobile. G. C. Davison. No. 977,438; Dec. 6; Sp. p. 21; Gaz. vol. 161; p. 7.
Torpedo, Automobile. W. M. Douglas. No. 978,862; Dec. 20; Sp. p. 3096; Gaz. vol. 161; p. 549.
Torpedo-director. G. C. Davison. No. 970,431; Sept. 13; Sp. p. 2723; Gaz. vol. 158; p. 460.
Torpedo-firing apparatus, Gyroscopically-controlled. C. Davis. No. 972,064; Oct. 4; Sp. p. 1204; Gaz. vol. 159; p. 204.
Torpedo-launching apparatus. S. Lake. No. 949,325; Feb. 15; Sp. p. 3230; Gaz. vol. 151; p. 569.
Torpedo-placer. E. P. S. Andrews. No. 980,137; Dec. 27; Sp. p. 5909; Gaz. vol. 161; p. 1008.
Torpedo, Self-propelling. H. W. Shonnard. No. 973,141; Oct. 18; Sp. p. 3595; Gaz. vol. 159; p. 620.
Torpedo-shell. E. S. Lafferty. No. 961,143; June 14; Sp. p. 1819; Gaz. vol. 155; p. 330.
Torpedo-tube attachment. J. Kimbrell. No. 958,650; May 17; Sp. p. 4852; Gaz. vol. 154; p. 797.
Torpedoes, Air-heater for automobile. F. M. Leavitt. No. 950,550; Mar. 1; Sp. p. 185; Gaz. vol. 152; p. 31.
Torpedoes, Exploder for automobile. F. M. Leavitt. No. 953,848; Apr. 5; Sp. p. 334; Gaz. vol. 153; p. 60.
Torpedoes, Means for increasing tension of gaseous propellants for. M. Glass. No. 973,774; Oct. 25; Sp. p. 4952; Gaz. vol. 159; p. 861.
Torpedoes simultaneously in a well, Mechanism for delivering a plurality of. R. S. Pringle. No. 949,778; Feb. 22; Sp. p. 4178; Gaz. vol. 151; p. 755.
Torpedoes, Turbine-drive of gyroscopic steering-gears of. A. E. Jones. No. 954,634; Apr. 12; Sp. p. 2010; Gaz. vol. 153; p. 354.
Torsiometer. F. T. Edgecombe. No. 963,699; July 5; Sp. p. 1478; Gaz. vol. 156; p. 230.
Torsiometer, Electrical. C. H. Johnson. No. 979,503; Dec. 27; Sp. p. 4494; Gaz. vol. 161; p. 794.
Tow-lines, Surge-reliever or safety device for. W. A. Duncanson. No. 957,315; May 10; Sp. p. 1774; Gaz. vol. 154; p. 310.
Towing apparatus. E. Meckelburg. No. 960,663; June 7; Sp. p. 865; Gaz. vol. 155; p. 143.
Towing-machine. E. Dalgleish. No. 977,277; Nov. 29; Sp. p. 7050; Gaz. vol. 160; p. 1199.
Towing-machine. F. Metcalf and E. Dalgleish. No. 977,322; Nov. 29; Sp. p. 7131; Gaz. vol. 160; p. 1214.
Towel-holder. O. D. Hammond. No. 965,707; July 26; Sp. p. 5866; Gaz. vol. 156; p. 996.
Towel-rack. J. W. Peyton. No. 966,854; Aug. 9; Sp. p. 2221; Gaz. vol. 157; p. 365.
Towel-sterilizer. J. P. Reardon. No. 969,904; Sept. 13; Sp. p. 1643; Gaz. vol. 158; p. 283.
Towel-supply device. I. L. Park. No. 979,029; Dec. 20; Sp. p. 3476; Gaz. vol. 161; p. 610.
Tower. L. Callahan. No. 946,010; Jan. 11; Sp. p. 2227; Gaz. vol. 150; p. 370.
Toy. G. Malz. No. 945,849; Jan. 11; Sp. p. 1885; Gaz. vol. 150; p. 313.
Toy. J. L. Clarke. No. 946,013; Jan. 11; Sp. p. 2232; Gaz. vol. 150; p. 371.
Toy. J. F. Gill and T. C. Aveling. No. 946,669; Jan. 18; Sp. p. 3706; Gaz. vol. 150; p. 620.
Toy. J. Crane. No. 947,035; Jan. 18; Sp. p. 4522; Gaz. vol. 150; p. 745.
Toy. J. Mason. No. 947,043; Jan. 18; Sp. p. 4532; Gaz. vol. 150; p. 747.
Toy. A. I. Doerr No. 948,163; Feb. 1; Sp. p. 785; Gaz. vol. 151; p. 130.
Toy. W. L. Loyd. No. 949,152; Feb. 15; Sp. p. 2890; Gaz. vol. 151; p. 512.
Toy. A. O Muehlstein. No. 949,544; Feb. 15; Sp. p. 3701; Gaz. vol. 151; p. 643.
Toy. F. Meschko. No. 949,831; Feb. 22; Sp. p. 4291; Gaz. vol. 151; p. 773.
Toy. W. P. Casteen. No. 950,091; Feb. 22; Sp. p. 4918; Gaz. vol. 151; p. 865.
Toy. G. A. Krueger and P. R. O'Connell. No. 953,209; Mar. 29; Sp. p. 5658; Gaz. vol. 152; p. 1028.
Toy. H. G. Starmer and W. Tapio. No. 955,009; Apr. 12; Sp. p. 2862; Gaz. vol. 153; p. 485.
Toy. J. W. Zimmerman. No. 955,492; Apr. 19; Sp. p. 3876; Gaz. vol. 153; p. 681.
Toy. J. P. Reinhart. No. 955,550; Apr. 19; Sp. p. 3987; Gaz. vol. 153; p. 700.

Alphabetical list of inventions—Continued.

Toy. G. H. Ulbrich. No. 957,819; May 10; Sp. p. 2789; Gaz. vol. 154; p. 479.
Toy. W. S. Hendron. No. 959,009; May 24; Sp. p. 5632; Gaz. vol. 154; p. 946.
Toy. J. T. Stafford. No. 959,638; May 31; Sp. p. 6939; Gaz. vol. 154; p. 1182.
Toy. F. H. Callahan. No. 960,075; May 31; Sp. p. 7931; Gaz. vol. 154; p. 1331.
Toy. C. J. Schneider. No. 960,715; June 7; Sp. p. 968; Gaz. vol. 155; p. 161.
Toy. D. M. Lemon. No. 962,154; June 21; Sp. p. 4026; Gaz. vol. 155; p. 699.
Toy. E. C. McQueen. No. 964,447; July 12; Sp. p. 3038; Gaz. vol. 156; p. 502.
Toy. H. F. Samstag. No. 966,127; Aug. 2; Sp. p. 594; Gaz. vol. 157; p. 97.
Toy. H. Noll. No. 966,761; Aug. 9; Sp. p. 2022; Gaz. vol. 157; p. 336.
Toy. J. A. Ecton. No. 967,352; Aug. 16; Sp. p. 3244; Gaz. vol. 157; p. 562.
Toy. Y. Iwata. No. 968,057; Aug. 23; Sp. p. 4711; Gaz. vol. 157; p. 822.
Toy. S. G. Leyson. No. 968,373; Aug. 23; Sp. p. 5401; Gaz. vol. 157; p. 932.
Toy. R. S. Gilkeson. No. 968,549; Aug. 30; Sp. p. 5781; Gaz. vol. 157; p. 1018.
Toy. J. Vanderbilt. No. 968,900; Aug. 30; Sp. p. 6538; Gaz. vol. 157; p. 1138.
Toy. S. S. Pete. No. 969,185; Sept. 6; Sp. p. 91; Gaz. vol. 158; p. 15.
Toy. A. T. Goldfield. No. 972,691; Oct. 11; Sp. p. 2566; Gaz. vol. 159; p. 437.
Toy. J. C. Smith. No. 972,724; Oct. 11; Sp. p. 2644; Gaz. vol. 159; p. 449.
Toy. L. W. Replogle. No. 973,303; Oct. 18; Sp. p. 3951; Gaz. vol. 159; p. 676.
Toy. J. H. Allen. No. 975,197; Nov. 8; Sp. p. 2548; Gaz. vol. 160; p. 411.
Toy. J. Schramm. No. 975,291; Nov. 8; Sp. p. 2732; Gaz. vol. 160; p. 442.
Toy. Z. D. Underhill. No. 977,572; Dec. 6; Sp. p. 361; Gaz. vol. 161; p. 52.
Toy. F. E. Hayes. No. 979,486; Dec. 27; Sp. p. 4462; Gaz. vol. 161; p. 788.
Toy. A. Schoenhut. No. 980,013; Dec. 27; Sp. p. 5599; Gaz. vol. 161; p. 967.
Toy, Aerial. Z. D. Underhill. No. 975,182; Nov. 8; Sp. p. 2511; Gaz. vol. 160; p. 406.
Toy aeroplane. E. W. Smith. No. 962,172; June 21; Sp. p. 4063; Gaz. vol. 155; p. 705.
Toy airship. G. Engisch. No. 949,420; Feb. 15; Sp. p. 3457; Gaz. vol. 151; p. 604.
Toy and game apparatus. J. W. Cadwallader. No. 970,881; Sept. 13; Sp. p. 3728; Gaz. vol. 158; p. 637.
Toy, Animated. A. W. Pressler. No. 953,289; Mar. 29; Sp. p. 5828; Gaz. vol. 152; p. 1053.
Toy, Automatic reversing motor. H. T. Kingsbury and M. J. Kidder. No. 963,715; July 5; Sp. p. 1512; Gaz. vol. 156; p. 235.
Toy bale. A. Hirschwitz and H. Mauderer. No. 960,922; June 7; Sp. p. 1361; Gaz. vol. 155; p. 229.
Toy bank. J. F. Schnaufer. No. 947,998; Feb. 1; Sp. p. 455; Gaz. vol. 151; p. 73.
Toy bank. C. A. Bailey. No. 965,842; July 26; Sp. p. 6148; Gaz. vol. 156; p. 1042.
Toy bank. C. A. Bailey. No. 965,843; July 26; Sp. p. 6149; Gaz. vol. 156; p. 1043.
Toy base-ball-game apparatus. J. A. Ekelund. No. 959,427; May 24; Sp. p. 6470; Gaz. vol. 154; p. 1084.
Toy beehive. M. Averill. No. 972,147; Oct. 11; Sp. p. 1369; Gaz. vol. 159; p. 250.
Toy bird, Flying. W. S. Olson. No. 964,803; July 19; Sp. p. 3954; Gaz. vol. 156; p. 657.
Toy book. J. W. Bevans. No. 961,675; June 14; Sp. p. 2962; Gaz. vol. 155; p. 512.
Toy briquet-mold. L. B. McDaniel. No. 965,480; July 26; Sp. p. 5355; Gaz. vol. 156; p. 917.
Toy building-block. S. W. Finch. No. 956,632; May 3; Sp. p. 267; Gaz. vol. 154; p. 45.
Toy cannon. J. A. Dainty. No. 956,043; Apr. 26; Sp. p. 5094; Gaz. vol. 153; p. 899.
Toy cash-register. A. E. Jacobs. No. 964,026; July 12; Sp. p. 2206; Gaz. vol. 156; p. 362.
Toy circus. C. A. Evans. No. 968,756; Aug. 30; Sp. p. 6244; Gaz. vol. 157; p. 1092.
Toy, Detonating. F. J. Lyman. No. 964,529; July 19; Sp. p. 3259; Gaz. vol. 156; p. 562.
Toy dump-cart. H. T. Kingsbury. No. 966,103; Aug. 2; Sp. p. 553; Gaz. vol. 157; p. 89.
Toy, Educational. H. B. Palmer. No. 948,633; Feb. 8; Sp. p. 1810; Gaz. vol. 151; p. 311.
Toy, Educational. E. A. Wynne-Jones. No. 968,513; Aug. 23; Sp. p. 5693; Gaz. vol. 157; p. 980.
Toy, Figure. J. Y. Henry. No. 946,042; Jan. 11; Sp. p. 2292; Gaz. vol. 150; p. 381.
Toy, Figure. S. M. Siegel. No. 961,812; June 21; Sp. p. 3257; Gaz. vol. 155; p. 581.
Toy figure. A. E. Kennedy. No. 961,968; June 21; Sp. p. 3602; Gaz. vol. 155; p. 633.
Toy figure. C. J. Dorsey. No. 973,485; Oct. 25; Sp. p. 4352; Gaz. vol. 159; p. 761.
Toy figure, Flat. G. Noack. No. 962,578; June 28; Sp. p. 4956; Gaz. vol. 155; p. 808.
Toy, Figured. W. J. Botts. No. 955,376; Apr. 19; Sp. p. 3630; Gaz. vol. 153; p. 640.
Toy, Figured. S. Olop. No. 955,677; Apr. 19; Sp. p. 4295; Gaz. vol. 153; p. 743.
Toy, Flying. W. W. Katterjohn. No. 951,686; Mar. 8; Sp. p. 2475; Gaz. vol. 152; p. 429.
Toy, Flying. L. Briggs. No. 953,942; Apr. 5; Sp. p. 512; Gaz. vol. 153; p. 93.
Toy, Flying. W. C. Capewell. No. 962,743; June 28; Sp. p. 5294; Gaz. vol. 155; p. 924.
Toy flying-machine. I. W. Humphrey and H. A. Spurgeon. No. 970,829; Sept. 20; Sp. p. 3643; Gaz. vol. 158; p. 621.
Toy gun. N. E. Lindahl. No. 945,279; Jan. 4; Sp. p. 569; Gaz. vol. 150; p. 93.
Toy gun. J. C. Rotermund. No. 945,610; Jan. 4; Sp. p. 1289; Gaz. vol. 150; p. 201.
Toy gun. J. Scholtes. No. 947,621; Jan. 25; Sp. p. 5840; Gaz. vol. 150; p. 970.
Toy gun. W. R. Benjamin. No. 970,876; Sept. 20; Sp. p. 3720; Gaz. vol. 158; p. 636.
Toy gun, Rapid-firing. W. A. Berbig. No. 947,032; Jan. 18; Sp. p. 4519; Gaz. vol. 150; p. 744.
Toy handkerchief-box. H. A. Young. No. 961,331; June 14; Sp. p. 2256; Gaz. vol. 155; p. 398.
Toy house. L. V. Boyd and F. W. Kramer. No. 972,498; Oct. 11; Sp. p. 2125; Gaz. vol. 159; p. 370.
Toy, Mechanical. P. C. Hopkins. No. 946,778; Jan. 18; Sp. p. 3947; Gaz. vol. 150; p. 657.
Toy, Mechanical. C. Ross. No. 964,560; July 19; Sp. p. 3356; Gaz. vol. 156; p. 573.
Toy, Moving-picture. E. W. Davis. No. 972,344; Oct. 11; Sp. p. 1796; Gaz. vol. 159; p. 315.
Toy, Musical. E. J. Rich. No. 976,695; Nov. 22; Sp. p. 5742; Gaz. vol. 160; p. 972.
Toy or game. D. Campbell. No. 975,119; Nov. 8; Sp. p. 2358; Gaz. vol. 160; p. 384.
Toy or picture book. G. Tuck. No. 959,655; May 31; Sp. p. 6979; Gaz. vol. 154; p. 1188.
Toy or puzzle, Scientific. W. C. Jeans and F. Beevers. No. 976,371; Nov. 22; Sp. p. 5068; Gaz. vol. 160; p. 861.
Toy parachute. M. E. Wright. No. 974,733; Nov. 1; Sp. p. 1479; Gaz. vol. 160; p. 228.
Toy pistol. M. J. Shimer. No. 952,369; Mar. 15; Sp. p. 3842; Gaz. vol. 152; p. 687.
Toy pistol. R. D. Simpson. No. 973,886; Oct. 25; Sp. p. 5194; Gaz. vol. 159; p. 901.
Toy projectile. W. D. Trimble. No. 954,404; Apr. 5; Sp. p. 1496; Gaz. vol. 153; p. 249.
Toy, Pyrotechnic. A. and C. Weinrich. No. 955,486; Apr. 19; Sp. p. 3856; Gaz. vol. 153; p. 679.
Toy, Pyrotechnic. A. and C. Weinrich. No. 955,487; Apr. 19; Sp. p. 3856; Gaz. vol. 153; p. 679.
Toy-railway rail. M. Caruso. No. 976,633; Nov. 22; Sp. p. 5631; Gaz. vol. 160; p. 952.
Toy-railway rail. J. L. Cohen. (now J. L. Cowen.) No. 976,722; Nov. 22; Sp. p. 5795; Gaz. vol. 160; p. 981.
Toy rocker. J., L., and P. Reinert. No. 968,418; Aug. 23; Sp. p. 5491; Gaz. vol. 157; p. 946.
Toy, Rolling. C. L. Jones. No. 968,666; Aug. 30; Sp. p. 6032; Gaz. vol. 157; p. 1059.
Toy roundabout. J. L. Allabough. No. 975,311; Nov. 8; Sp. p. 2785; Gaz. vol. 160; p. 450.
Toy, Sounding. A. H. F. Schliecker. No. 949,551; Feb. 15; Sp. p. 3713; Gaz. vol. 151; p. 646.
Toy, Sounding. W. Bartholomae. No. 976,718; Nov. 22; Sp. p. 5789; Gaz. vol. 160; p. 980.
Toy, Sounding. R. O. Barler. No. 977,924; Dec. 6; Sp. p. 1094; Gaz. vol. 161; p. 174.
Toy, Surprise or joke. J. L. Kellogg. No. 954,031; Apr. 5; Sp. p. 698; Gaz. vol. 153; p. 122.
Toy target. W. S. Root. No. 966,056; Aug. 2; Sp. p. 465; Gaz. vol. 157; p. 74.
Toy, Tick-tack. E. C. Regli. No. 972,644; Oct. 11; Sp. p. 2479; Gaz. vol. 159; p. 422.
Toy top. J. A. Irving. No. 965,465; July 26; Sp. p. 5328; Gaz. vol. 156; p. 911.
Toy truck-cart. H. T. Kingsbury. No. 967,785; Aug. 16; Sp. p. 4132; Gaz. vol. 157; p. 708.
Toy vehicle. J. W. Arney. No. 947,780; Feb. 1; Sp. p. 4; Gaz. vol. 151; p. 3.
Toy vehicles, Propulsion device for. O. E. Miller. No. 964,294; July 12; Sp. p. 2751; Gaz. vol. 156; p. 454.
Toy, Walking. T. A. Killman. No. 950,536; Mar. 1; Sp. p. 159; Gaz. vol. 152; p. 27.
Toy wheeled trap. H. T. Kingsbury. No. 967,784; Aug. 16; Sp. p. 4132; Gaz. vol. 157; p. 708.
Trace and backer loop. A. D. Baird. No. 971,655; Oct. 4; Sp. p. 304; Gaz. vol. 159; p. 54.
Trace-carrier. J. E. McConnell. No. 953,431; Mar. 29; Sp. p. 6144; Gaz. vol. 152; p. 1103.
Trace-carrier. O. S. Pittenger. No. 961,009; June 7; Sp. p. 1552; Gaz. vol. 155; p. 260.
Trace-carrier. S. W. Coffman. No. 976,636; Nov. 22; Sp. p. 5637; Gaz. vol. 160; p. 953.
Trace-chain. B. F. Brock. No. 974,857; Nov. 8; Sp. p. 1762; Gaz. vol. 160; p. 293.
Trace-coupling. A. Bulley. No. 979,743; Dec. 27; Sp. p. 5026; Gaz. vol. 161; p. 878.

Trace-fastener. T. E. Ewer. No. 962,422; June 28; Sp. p. 4606; Gaz. vol. 155; p. 813.
Trace-fastener. R. M. Watson. No. 970,769; Sept. 20; Sp. p. 3500; Gaz. vol. 158; p. 599.
Trace-fastener. J. C. Crutchfield. No. 973,630; Oct. 25; Sp. p. 4660; Gaz. vol. 159; p. 810.
Trace-fastener. C. F. Bloom. No. 979,369; Dec. 20; Sp. p. 4211; Gaz. vol. 161; p. 726.
Trace-holder. H. G. Weatherill. No. 955,026; Apr. 12; Sp. p. 2905; Gaz. vol. 153; p. 492.
Trace-support and pad-loop, Adjustable. R. W. Brooks. No. 971,521; Oct. 4; Sp. p. 20; Gaz. vol. 159; p. 6.
Trace-supporter. G. D. Holm. No. 970,226; Sept. 13; Sp. p. 2331; Gaz. vol. 158; p. 392.
Tracheal cannula or tube. J. B. Rogers. No. 953,922; Apr. 5; Sp. p. 474; Gaz. vol. 153; p. 86.
Track-adjusting jack. B. F. Hackett and J. J. Owen. No. 968,150; Aug. 23; Sp. p. 4928; Gaz. vol. 157; p. 854.
Track and bracket, Tubular. A. Wagner. No. 955,371; Apr. 19; Sp. p. 3619; Gaz. vol. 153; p. 638.
Track and supporting-boom therefor, Swinging. H. L. and H. J. Ferris. No. 969,465; Sept. 6; Sp. p. 648; Gaz. vol. 158; p. 104.
Track-binder. J. F. Hudson. No. 970,054; Sept. 13; Sp. p. 1975; Gaz. vol. 158; p. 335.
Track-brace. A. J. Coover. No. 948,390; Feb. 8; Sp. p. 1289; Gaz. vol. 151; p. 231.
Track-brace. C. Maunders. No. 974,411; Nov. 1; Sp. p. 745; Gaz. vol. 160; p. 113.
Track-channeler, Electropneumatic. A. H. Gibson. No. 962,755; June 28; Sp. p. 5319; Gaz. vol. 155; p. 929.
Track-cleaner. E. B. Lockrem. No. 952,453; Mar. 22; Sp. p. 4019; Gaz. vol. 152; p. 744.
Track-closer, Automatic. J. Nueske. No. 967,229; Aug. 16; Sp. p. 3006; Gaz. vol. 157; p. 520.
Track construction. J. W. Leahy. No. 946,760; Jan. 18; Sp. p. 3906; Gaz. vol. 150; p. 651.
Track-drill. E. Pierce. No. 952,466; Mar. 22; Sp. p. 4054; Gaz. vol. 152; p. 749.
Track-drill. C. K. Pickles. No. 967,552; Aug. 16; Sp. p. 3663; Gaz. vol. 157; p. 630.
Track, Elevated. J. C. Fitzgerald. No. 957,757; May 10; Sp. p. 2669; Gaz. vol. 154; p. 459.
Track-fastener. C. H. Tibbetts. No. 952,962; Mar. 22; Sp. p. 5113; Gaz. vol. 152; p. 918.
Track-gage. E. W. Fordyce. No. 951,068; Mar. 1; Sp. p. 1225; Gaz. vol. 152; p. 201.
Track instrument. C. A. Coolidge. No. 973,478; Oct. 25; Sp. p. 4331; Gaz. vol. 159; p. 759.
Track-joint. H. R. Anderson. No. 972,673; Oct. 11; Sp. p. 2530; Gaz. vol. 159; p. 431.
Track-laying machine. J. R. McGiffert. No. 967,817; Aug. 16; Sp. p. 4189; Gaz. vol. 157; p. 718.
Track-leveling jack-block. H. M. Harris. No. 975,765; Nov. 15; Sp. p. 3740; Gaz. vol. 160; p. 630.
Track, Portable. E. A. Akerson. No. 964,601; July 19; Sp. p. 3441; Gaz. vol. 156; p. 588.
Track, Portable. W. H. Harris. No. 978,582; Dec. 13; Sp. p. 2537; Gaz. vol. 161; p. 432.
Track raising, lowering, and ballasting machine. W. F. Sparks. No. 966,613; Aug. 9; Sp. p. 1668; Gaz. vol. 157; p. 285.
Track-sander. W. J. Beattie, E. W. Boynton, and E. B. Churchill. No. 950,889; Mar. 1; Sp. p. 899; Gaz. vol. 152; p. 144.
Track-sander. J. H. Hanlon. No. 952,111; Mar. 15; Sp. p. 3336; Gaz. vol. 152; p. 601.
Track-sander. J. H. Watters. No. 957,019; May 3; Sp. p. 1127; Gaz. vol. 154; p. 178.
Track-sander. C. P. White. No. 957,482; May 10; Sp. p. 2104; Gaz. vol. 154; p. 365.
Track-sander. W. A. Pitt. No. 959,596; May 31; Sp. p. 6864; Gaz. vol. 154; p. 1167.
Track-sander. W. J. Beattie, E. W. Boynton, and E. B. Churchill. No. 967,309; Aug. 16; Sp. p. 3154; Gaz. vol. 157; p. 546.
Track-sander. W. H. Smith. No. 975,803; Nov. 15; Sp. p. 3818; Gaz. vol. 160; p. 643.
Track-sanding apparatus. I. A. Gibbs. No. 946,346; Jan. 11; Sp. p. 2932; Gaz. vol. 150; p. 487.
Track-sanding appliance. F. G. Schwartz. No. 947,652; Jan. 25; Sp. p. 5504; Gaz. vol. 150; p. 980.
Track-sanding device. J. Gapp. No. 950,531; Mar. 1; Sp. p. 147; Gaz. vol. 152; p. 24.
Track-scraper. A. A. De Looch. No. 950,373; Feb. 22; Sp. p. 5478; Gaz. vol. 151; p. 960.
Track, Sectional. G. A. Olson. No. 979,028; Dec. 20; Sp. p. 3474; Gaz. vol. 161; p. 609.
Track-shifting machine. H. T. Devitt. No. 978,858; Dec. 20; Sp. p. 3083; Gaz. vol. 161; p. 548.
Track-switch, Electrically-operated. F. B. Corey. No. 969,526; Sept. 6; Sp. p. 798; Gaz. vol. 158; p. 125.
Tracks, Making slotted tubular. R. Minshull. No. 977,118; Nov. 29; Sp. p. 6725; Gaz. vol. 160; p. 1145.
Tracker-bar. G. P. Brand. No. 958,470; May 17; Sp. p. 4509; Gaz. vol. 154; p. 738.
Tracker-bar. G. P. Brand. No. 977,700; Dec. 6; Sp. p. 638; Gaz. vol. 161; p. 97.
Tracker-board, Universally-movable. M. F. Holderman. No. 957,676; May 10; Sp. p. 2503; Gaz. vol. 154; p. 433.
Tracker-box, Universal. C. W. Barnes. No. 967,102; Aug. 9; Sp. p. 2731; Gaz. vol. 157; p. 449.
Traction attachment for implements. A. H. Wartchow. No. 946,627; Jan. 18; Sp. p. 3617; Gaz. vol. 150; p. 608.
Traction device. J. C. Estrem. No. 950,442; Feb. 22; Sp. p. 5609; Gaz. vol. 151; p. 983.
Traction device, Motor-vehicle. T. J. Andrews. No. 968,914; Aug. 30; Sp. p. 6564; Gaz. vol. 157; p. 1143.
Traction-engine. B. Holt. No. 945,538; Jan. 4; Sp. p. 1146; Gaz. vol. 150; p. 177.
Traction-engine. M. Bunyetin. No. 949,350; Feb. 15; Sp. p. 3302; Gaz. vol. 151; p. 579.
Traction-engine. G. L. Hinshaw and H. A. Wade. No. 958,123; May 17; Sp. p. 3653; Gaz. vol. 154; p. 616.
Traction-engine. L. M. Merkley. No. 958,816; May 24; Sp. p. 5220; Gaz. vol. 154; p. 880.
Traction-engine. B. Holt. No. 970,503; Sept. 20; Sp. p. 2896; Gaz. vol. 158; p. 506.
Traction-machine. G. W. McGill. No. 956,143; Apr. 26; Sp. p. 5316; Gaz. vol. 153; p. 934.
Traction mechanism, Vehicle. J. L. Williams. No. 960,059; May 31; Sp. p. 7903; Gaz. vol. 154; p. 1327.
Traction members, Apparatus for treating. E. M. Boynton. No. 976,627; Nov. 22; Sp. p. 5616; Gaz. vol. 160; p. 950.
Traction-motor. F. J. Crouch. No. 961,756; June 21; Sp. p. 3130; Gaz. vol. 155; p. 564.
Traction-switch, Automatic. J. L. Yoder. No. 974,619; Nov. 1; Sp. p. 1234; Gaz. vol. 160; p. 190.
Traction-wheel. E. E. Thompson and W. H. Wallace. No. 955,295; Apr. 19; Sp. p. 3449; Gaz. vol. 153; p. 612.
Traction-wheel. F. Hahn. No. 960,541; June 7; Sp. p. 624; Gaz. vol. 155; p. 101.
Traction-wheel. L. O. and A. R. Larson and S. Johnson. No. 964,279; July 12; Sp. p. 2771; Gaz. vol. 156; p. 449.
Traction-wheel. J. Oeste. No. 974,510; Nov. 1; Sp. p. 1001; Gaz. vol. 160; p. 149.
Traction-wheel drive, Magnetic. A. Sundh. No. 974,447; Nov. 1; Sp. p. 852; Gaz. vol. 160; p. 126.
Traction-wheel, Walking. S. M. Bower. No. 975,117; Nov. 8; Sp. p. 2354; Gaz. vol. 160; p. 383.
Traffic system, Street-. E. E. Sirrine. No. 976,939; Nov. 29; Sp. p. 6314; Gaz. vol. 160; p. 1082.
Train control, Automatic. S. Nydam. No. 949,775; Feb. 22; Sp. p. 4169; Gaz. vol. 151; p. 754.
Train-control system, Electrical block. J. B. Tonnar. No. 961,177; June 14; Sp. p. 1888; Gaz. vol. 155; p. 343.
Train-lighting systems, Generator suspension for. P. Kennedy. No. 949,934; Feb. 22; Sp. p. 4539; Gaz. vol. 151; p. 8.
Train-order catcher. L. C. Schweppe. No. 947,999; Feb. 1; Sp. p. 457; Gaz. vol. 151; p. 74.
Train-order deliverer. N. Forsythe. No. 966,392; Aug. 2; Sp. p. 1129; Gaz. vol. 157; p. 182.
Train-order-delivering device. C. B. Hibbard. No. 947,236; Jan. 25; Sp. p. 4916; Gaz. vol. 150; p. 838.
Train-order-delivering device. W. T. See. No. 972,654; Oct. 11; Sp. p. 2493; Gaz. vol. 159; p. 425.
Train-order-delivering mechanism. H. A. McKiddy. No. 953,153; Mar. 29; Sp. p. 5541; Gaz. vol. 152; p. 1010.
Train-order-delivery apparatus. A. Halvorson. No. 971,004; Sept. 20; Sp. p. 3956; Gaz. vol. 158; p. 676.
Train-order holder. A. W. Vick. No. 957,018; May 3; Sp. p. 1126; Gaz. vol. 154; p. 177.
Train-order holder. J. A. Perry. No. 966,593; Aug. 9; Sp. p. 1634; Gaz. vol. 157; p. 279.
Train-order holder. J. M. Hanley. No. 967,907; Aug. 23; Sp. p. 4380; Gaz. vol. 157; p. 772.
Train-order holder. C. Johnson. No. 970,831; Sept. 20; Sp. p. 3645; Gaz. vol. 158; p. 622.
Train-order hoops, Catcher for. G. E. Johnson. No. 954,300; Apr. 5; Sp. p. 1289; Gaz. vol. 153; p. 213.
Train-service coupling. I. B. Turner. No. 948,150; Feb. 1; Sp. p. 763; Gaz. vol. 151; p. 125.
Train-shed. A. L. Moorshead. No. 953,633; Mar. 29; Sp. p. 6568; Gaz. vol. 152; p. 1175.
Train-signaling and brake-releasing mechanism. H. H. Hunt. No. 959,749; May 31; Sp. p. 7175; Gaz. vol. 154; p. 1218.
Train-stop, Automatic. K. W. Carlgren. No. 949,145; Feb. 15; Sp. p. 2878; Gaz. vol. 151; p. 509.
Train-stop, Automatic. S. D. Jarvis. No. 954,517; Apr. 12; Sp. p. 1756; Gaz. vol. 153; p. 315.
Train-stop, Automatic. S. M. Duncan. No. 955,059; Apr. 12; Sp. p. 2957; Gaz. vol. 153; p. 501.
Train-stopping and signal-actuating mechanism. J. F. Webb, Jr. No. 948,361; Feb. 8; Sp. p. 1209; Gaz. vol. 151; p. 221.
Train-stopping mechanism. J. F. Webb, Jr. No. 958,047; May 17; Sp. p. 3455; Gaz. vol. 154; p. 591.
Train-stopping mechanism, Automatic. W. Mingo, Jr. No. 973,954; Oct. 25; Sp. p. 5320; Gaz. vol. 159; p. 924.
Train system, Electrical. J. R. Sloan. No. 967,681; Aug. 16; Sp. p. 3914; Gaz. vol. 157; p. 672.
Train-ventilator. R. Chadwick. No. 970,685; Sept. 20; Sp. p. 3312; Gaz. vol. 158; p. 569.
Trammel. A. B. Cooper. No. 969,156; Sept. 6; Sp. p. 11; Gaz. vol. 158; p. 5.
Tramway, Aerial. W. C. Lawson. No. 974,284; Nov. 1; Sp. p. 465; Gaz. vol. 160; p. 68.

Alphabetical list of inventions—Continued.

Tramway, Cable-. H. H. Peter. No. 946,732; Jan. 18; Sp. p. 3837; Gaz. vol. 150; p. 640.
Tramway-point. R. A. Hadfield. No. 977,006; Nov. 29; Sp. p. 6483; Gaz. vol. 160; p. 1106.
Tramway, Portable. O. F. Heydenreich. No. 975,238; Nov. 8; Sp. p. 2630; Gaz. vol. 160; p. 424.
Tramway-switch. D. D. Samaia. No. 951,151; Mar. 8; Sp. p. 1396; Gaz. vol. 152; p. 253.
Tramway system, Weight-actuated-grip single-running-rope. J. J. A. Miller. No. 968,868; Aug. 30; Sp. p. 6464; Gaz. vol. 157; p. 1126.
Tramways and railways, Brake for. P. J. Pringle. No. 956,826; May 3; Sp. p. 715; Gaz. vol. 154; p. 113.
Tramways, Bucket operated and supporting grip for single-rope aerial. J. J. A. Miller. No. 968,869; Aug. 30; Sp. p. 6467; Gaz. vol. 157; p. 1126.
Tramways, Curve for double-rope. S. A. Cooney. No. 972,509; Oct. 11; Sp. p. 2155; Gaz. vol. 159; p. 374.
Transfer mechanism. D. F. Crawford. No. 954,500; Apr. 12; Sp. p. 1721; Gaz. vol. 153; p. 309.
Transfer-slip. E. W. Wunch. No. 946,650; Jan. 18; Sp. p. 3661; Gaz. vol. 150; p. 614.
Transfer-tube system. J. F. Skirrow and J. T. Needham. No. 976,753; Nov. 22; Sp. p. 5874; Gaz. vol. 160; p. 993.
Transferring apparatus, Material-. L. Callahan. No. 948,719; Feb. 8; Sp. p. 1994; Gaz. vol. 151; p. 341.
Transferring-case for valuables. A. Powell. No. 967,667; Aug. 16; Sp. p. 3890; Gaz. vol. 157; p. 668.
Transferring device. W. E. Rennells and W. D. Engle. No. 950,957; Mar. 1; Sp. p. 1036; Gaz. vol. 152; p. 166.
Transferring material from a high to a lower level and piling the material. A. C. Johnston. No. 964,429; July 12; Sp. p. 3011; Gaz. vol. 156; p. 496.
Transferring material from a high to a lower level and piling the material. A. C. Johnston. No. 964,430; July 12; Sp. p. 3013; Gaz. vol. 156; p. 497.
Transformer. M. Eastham. No. 965,168; July 26; Sp. p. 4681; Gaz. vol. 156; p. 811.
Transformer. M. Mayer. No. 974,167; Nov. 1; Sp. p. 120; Gaz. vol. 160; p. 23.
Transformer-case construction. L. C. Nichols. No. 949,086; Feb. 15; Sp. p. 2752; Gaz. vol. 151; p. 489.
Transformer-furnace. E. A. A. Grönwall, A. R. Lindblad, and O. Stålhane. No. 953,030; Mar. 29; Sp. p. 5260; Gaz. vol. 152; p. 969.
Transformer, Three-phase. J. J. Frank. No. 963,132; July 5; Sp. p. 269; Gaz. vol. 156; p. 37.
Transit. A. N. Buckner. No. 971,523; Oct. 4; Sp. p. 25; Gaz. vol. 159; p. 7.
Transit and level, Combined. A. Frese. No. 955,958; Apr. 26; Sp. p. 4917; Gaz. vol. 153; p. 869.
Transit, Mountain and mining. F. Heitzler. No. 946,602; Jan. 18; Sp. p. 3557; Gaz. vol. 150; p. 599.
Transit, Solar. P. Ferber. No. 955,392; Apr. 19; Sp. p. 3676; Gaz. vol. 153; p. 646.
Transmission apparatus. J. A. Baab. No. 958,212; May 17; Sp. p. 3832; Gaz. vol. 154; p. 648.
Transmission mechanism. W. C. Jameson. No. 947,386; Jan. 25; Sp. p. 5300; Gaz. vol. 150; p. 890.
Transmission mechanism. A. Pusteria. No. 950,055; Feb. 22; Sp. p. 4850; Gaz. vol. 151; p. 853.
Transmission mechanism. A. Winton. No. 951,037; Mar. 1; Sp. p. 1168; Gaz. vol. 152; p. 191.
Transmission mechanism. J. M. Mack. No. 954,531; Apr. 12; Sp. p. 1784; Gaz. vol. 153; p. 320.
Transmission mechanism. D. P. Ruger. No. 968,266; Aug. 23; Sp. p. 5193; Gaz. vol. 157; p. 893.
Transmission mechanism. J. W. Breyfogle. No. 973,339; Oct. 18; Sp. p. 4028; Gaz. vol. 159; p. 689.
Transmission mechanism. P. B. and H. E. B. Schadt. No. 973,979; Oct. 25; Sp. p. 5364; Gaz. vol. 159; p. 933.
Transmission mechanism. R. Herman. No. 977,871; Dec. 6; Sp. p. 981; Gaz. vol. 161; p. 155.
Transmission system. O. T. Lademan. No. 949,187; Feb. 15; Sp. p. 2957; Gaz. vol. 151; p. 523.
Transmission system. O. T. Lademan. No. 956,109; Apr. 26; Sp. p. 5243; Gaz. vol. 153; p. 912.
Transmission system. J. Schlig. No. 957,263; May 10; Sp. p. 1657; Gaz. vol. 154; p. 292.
Transmitter. W. E. McCormick. No. 947,395; Jan. 25; Sp. p. 5315; Gaz. vol. 150; p. 895.
Transmitter. H. S. Mattison. No. 967,217; Aug. 16; Sp. p. 2974; Gaz. vol. 157; p. 515.
Transmitter for teleselectors. E. Blos. No. 970,367; Sept. 13; Sp. p. 2601; Gaz. vol. 158; p. 440.
Transmitter-mounting. N. Pedersen. No. 958,167; May 17; Sp. p. 3747; Gaz. vol. 154; p. 633.
Transmitter-mouthpiece. C. F. Falk. No. 967,747; Aug. 16; Sp. p. 4064; Gaz. vol. 157; p. 696.
Transmitting and receiving information, Apparatus for. J. L. Hall. No. 956,960; May 3; Sp. p. 1008; Gaz. vol. 154; p. 158.
Transmitting apparatus. L. De Forest. No. 966,539; Aug. 9; Sp. p. 1519; Gaz. vol. 157; p. 260.
Transmitting apparatus. F. W. Midgley. No. 974,169; Nov. 1; Sp. p. 125; Gaz. vol. 160; p. 24.
Transom-adjuster. A. G. Brazier and D. E. Shook. No. 965,367; July 26; Sp. p. 5114; Gaz. vol. 156; p. 878.
Transom-adjusting device. F. F. Smith. No. 970,656; Sept. 20; Sp. p. 3247; Gaz. vol. 158; p. 559.
Transom-bar, Metal. J. T. Ferres. No. 967,625; Aug. 16; Sp. p. 3814; Gaz. vol. 157; p. 654.
Transom-holder. W. Cox and P. R. Peterson. No. 959,843; May 31; Sp. p. 7387; Gaz. vol. 154; p. 1251.
Transom-lifter, &c. A. Fromhold. No. 977,291; Nov. 29; Sp. p. 7078; Gaz. vol. 160; p. 1204.
Transom support and fastener. C. J. Ericson. No. 979,138; Dec. 20; Sp. p. 3750; Gaz. vol. 161; p. 649.
Transom-worker. P. R. Duchemin. No. 946,020; Jan. 11; Sp. p. 2246; Gaz. vol. 150; p. 373.
Transplanter. T. B. Ashford. No. 952,092; Mar. 15; Sp. p. 3297; Gaz. vol. 152; p. 594.
Transplanter. A. C. Rumble. No. 960,113; May 31; Sp. p. 7995; Gaz. vol. 154; p. 1343.
Transplanting-box. A. Rockwood. No. 965,601; July 26; Sp. p. 5636; Gaz. vol. 156; p. 959.
Transplanting-machine. G. E. Autry. No. 965,980; Aug. 2; Sp. p. 288; Gaz. vol. 157; p. 47.
Transplanting-pot. L. S. Lundy. No. 971,909; Oct. 4; Sp. p. 859; Gaz. vol. 159; p. 147.
Transport. J. M. Heckman. No. 961,856; June 21; Sp. p. 3370; Gaz. vol. 155; p. 597.
Transportable elevator. B. F. Seymour. No. 946,403; Jan. 11; Sp. p. 3151; Gaz. vol. 150; p. 507.
Transportation, Equalizer for wire-rope. A. Horner. No. 976,463; Nov. 22; Sp. p. 5267; Gaz. vol. 160; p. 894.
Transportation system. W. C. Carr. No. 956,040; Apr. 26; Sp. p. 5087; Gaz. vol. 153; p. 898.
Transportation system. W. C. Carr. No. 972,997; Oct. 18; Sp. p. 3280; Gaz. vol. 159; p. 571.
Transportation system. J. S. Wilkins. No. 973,834; Oct. 25; Sp. p. 5077; Gaz. vol. 159; p. 882.
Transportation system. W. C. Carr. No. 977,370; Nov. 29; Sp. p. 7259; Gaz. vol. 160; p. 1232.
Transportation system. W. C. Carr. No. 978,112; Dec. 6; Sp. p. 1482; Gaz. vol. 161; p. 239.
Trap: *See* Air-inlet trap; Animal-trap; Ant-trap; Anti-siphon-trap; Backwater-trap; Bath-tub trap; Bee-trap; Drain-trap; Fire-alarm trap; Fish-trap; Fly-trap; Game-trap; Golf-ball trap; Gopher-trap; Gravel-trap; Hog-trap; Insect-trap; Jaw-trap; Minnow-trap; Mouse-trap; Mouse and rat trap; Porpoise-catching trap; Precious-metal trap; Rat-trap; Rat or mouse trap; Rodent-trap; Sewer-trap; Sewer-vent-pipe trap; Sink-trap; Spring-trap; Steam-trap; Steam and vacuum trap; Target-trap; Vacuum-trap; Wash bowl and basin trap; Waste and overflow trap; Water-seal trap.
Trap. G. P. Kidwell. No. 945,099; Jan. 4; Sp. p. 194; Gaz. vol. 150; p. 33.
Trap. A. W. Myers. No. 953,636; Mar. 29; Sp. p. 6577; Gaz. vol. 152; p. 1174.
Trap. N. A. Boe. No. 955,751; Apr. 19; Sp. p. 4452; Gaz. vol. 153; p. 768.
Trap. H. G. R. Bennett. No. 956,030; Apr. 26; Sp. p. 5062; Gaz. vol. 153; p. 895.
Trap. M. L. French. No. 957,049; May 3; Sp. p. 1182; Gaz. vol. 154; p. 187.
Trap. B. H. Schroer. No. 964,060; July 12; Sp. p. 2278; Gaz. vol. 156; p. 375.
Trap. L. Jauregin. No. 966,213; Aug. 2; Sp. p. 803; Gaz. vol. 157; p. 126.
Trap. J. R. Schuyler. No. 968,990; Aug. 30; Sp. p. 6709; Gaz. vol. 157; p. 1168.
Trap. C. C. Humberstone. No. 969,282; Sept. 6; Sp. p. 275; Gaz. vol. 158; p. 45.
Trap. A. L. Newell. No. 972,127; Oct. 4; Sp. p. 1328; Gaz. vol. 159; p. 223.
Trap. J. Kubes. No. 975,537; Nov. 15; Sp. p. 3266; Gaz. vol. 160; p. 554.
Trap. W. S. Elliott. No. 977,943; Dec. 6; Sp. p. 1129; Gaz. vol. 161; p. 181.
Trap-door for sidewalks. W. H. Jones. No. 951,280; Mar. 8; Sp. p. 1657; Gaz. vol. 152; p. 293.
Trap-rest. J. W. Walter. No. 959,659; May 31; Sp. p. 6984; Gaz. vol. 154; p. 1189.
Trash receptacle and crematory. S. Karlson. No. 969,879; Sept. 13; Sp. p. 1595; Gaz. vol. 158; p. 274.
Traveler-holders, Device for loading. J. H. Cobb and G. T. Fleming. No. 948,161; Feb. 1; Sp. p. 783; Gaz. vol. 151; p. 129.
Travelers, Device for dispensing. J. S. Drake. No. 949,626; Feb. 15; Sp. p. 3851; Gaz. vol. 151; p. 671.
Traveling-bag or luggage-carrier. C. Wiedemann. No. 954,840; Apr. 12; Sp. p. 2510; Gaz. vol. 153; p. 428.
Traveling case and bag. S. Grossman. No. 948,170; Feb. 1; Sp. p. 794; Gaz. vol. 151; p. 132.
Traveling-cases, Follower for. A. N. Bogen. No. 972,323; Oct. 11; Sp. p. 1755; Gaz. vol. 159; p. 309.
Tray. W. J. Bellows. No. 965,431; July 26; Sp. p. 5252; Gaz. vol. 156; p. 899.
Tray and rack support, Foldable. L. L. Morse. No. 956,399; Apr. 26; Sp. p. 5879; Gaz. vol. 153; p. 1022.
Tray and truck, Portable. A. C. McNiven. No. 955,187; Apr. 19; Sp. p. 3208; Gaz. vol. 153; p. 576.
Tray-attaching device. W. C. Green. No. 961,771; June 21; Sp. p. 3166; Gaz. vol. 155; p. 568.
Tray, Bottle-. F. Sochurek, Sr. No. 966,258; Aug. 2; Sp. p. 887; Gaz. vol. 157; p. 141.
Tray, Coin-. L. I. Bussey and E. R. Lippincott. No. 968,779; Aug. 30; Sp. p. 6292; Gaz. vol. 157; p. 1098.

Tray, Collapsible. H. M. Hays. No. 961,228; June 14; Sp. p. 2004; Gaz. vol. 155; p. 362.
Tray, Crumb-. A. V. Green. No. 977,185; Nov. 29; Sp. p. 6884; Gaz. vol. 160; p. 1168.
Tray, Folding. J. C. Toynbee. No. 977,239; Nov. 29; Sp. p. 6985; Gaz. vol. 160; p. 1187.
Tray, Jewelry-. G. C. Rueckert. No. 962,981; June 28; Sp. p. 5747; Gaz. vol. 155; p. 1006.
Tray-raiser. O. B. Adams. No. 960,139; May 31; Sp. p. 8048; Gaz. vol. 154; p. 1352.
Tray, Wheeled. J. N. Stewart. No. 963,404; July 5; Sp. p. 891; Gaz. vol. 156; p. 131.
Tread-motor. P. W. Peters. No. 954,339; Apr. 5; Sp. p. 1372; Gaz. vol. 153; p. 227.
Tread-plug, Non-slipping. J. L. Campbell. No. 958,363; May 17; Sp. p. 4294; Gaz. vol. 154; p. 701.
Tread, Safety-. J. T. Simpson. No. 960,048; May 31; Sp. p. 7880; Gaz. vol. 154; p. 1323.
Tread, Wear-resisting and non-slipping. P. W. Pratt. No. 962,719; June 28; Sp. p. 5251; Gaz. vol. 155; p. 916.
Treadle, Foot-. E. Bourquin. No. 957,863; May 17; Sp. p. 2891; Gaz. vol. 154; p. 524.
Tree: *See* Boot-tree; Boot and shoe tree; Clothes-tree; Hat-tree; Saddletree; Shoe-tree.
Tree-felling apparatus. E. L. Freese. No. 971,600; Oct. 4; Sp. p. 197; Gaz. vol. 159; p. 35.
Tree-felling device. S. J. Black. No. 962,116; June 21; Sp. p. 3931; Gaz. vol. 155; p. 685.
Tree-felling machine. J. E. Wise. No. 957,832; May 10; Sp. p. 2809; Gaz. vol. 154; p. 483.
Tree-holder. H. J. Wagner. No. 952,655; Mar. 22; Sp. p. 4480; Gaz. vol. 152; p. 815.
Tree-holder. M. F. Burkart, Jr. No. 960,497; June 7; Sp. p. 517; Gaz. vol. 155; p. 86.
Tree-protector. T. J. McNamara. No. 948,339; Feb. 8; Sp. p. 1161; Gaz. vol. 151; p. 213.
Tree-tapping implement. G. Glauser. No. 978,366; Dec. 13; Sp. p. 2047; Gaz. vol. 161; p. 357.
Trees, Reinforcing. W. E. Davey. No. 957,940; May 17; Sp. p. 3070; Gaz. vol. 154; p. 550.
Trees, Reinforcing. W. E. Davey. No. 958,234; May 17; Sp. p. 3874; Gaz. vol. 154; p. 654.
Trees, Reinforcing. W. E. Davey. No. 958,478; May 17; Sp. p. 4522; Gaz. vol. 154; p. 740.
Treeing-machine. W. H. Hooper. No. 957,962; May 17; Sp. p. 3145; Gaz. vol. 154; p. 559.
Treeing-machine. W. H. Hooper. No. 957,963; May 17; Sp. p. 3154; Gaz. vol. 154; p. 559.
Treeing machine, Boot-. W. H. Hooper. No. 957,964; May 17; Sp. p. 3163; Gaz. vol. 154; p. 559.
Trellis, Metallic. J. F. Jaquet. No. 947,912; Feb. 1; Sp. p. 278; Gaz. vol. 151; p. 46.
Trench-filling apparatus. E. L. Ransome. No. 975,457; Nov. 15; Sp. p. 3073; Gaz. vol. 160; p. 525.
Trench-filling apparatus. W. G. Howe. No. 978,886; Dec. 20; Sp. p. 3147; Gaz. vol. 161; p. 559.
Trestle. E. O. Vickers. No. 947,464; Jan. 25; Sp. p. 5478; Gaz. vol. 150; p. 916.
Trestle. G. A. Milholland. No. 949,242; Feb. 15; Sp. p. 3058; Gaz. vol. 151; p. 541.
Trestle. A. Fässler. No. 965,173; July 26; Sp. p. 4690; Gaz. vol. 156; p. 813.
Trestle, Adjustable. G. H. Ratledge, Sr. No. 957,094; May 3; Sp. p. 1279; Gaz. vol. 154; p. 203.
Trestle, Builder's. O. Knoerzer. No. 959,228; May 24; Sp. p. 6094; Gaz. vol. 154; p. 1019.
Trestle, Knockdown. H. Schott. No. 978,403; Dec. 13; Sp. p. 2135; Gaz. vol. 161; p. 371.
Triangle, Registering-. J. Meacham. No. 952,920; Mar. 22; Sp. p. 5028; Gaz. vol. 152; p. 903.
Trick-box. A. Jedel. No. 962,843; June 28; Sp. p. 5488; Gaz. vol. 155; p. 960.
Trick-chair. J. Gillespie. No. 945,032; Jan. 4; Sp. p. 50; Gaz. vol. 150; p. 10.
Trick-chair. E. De Moulin. No. 976,786; Nov. 22; Sp. p. 5950; Gaz. vol. 160; p. 1004.
Trick weight-lifting machine. E. De Moulin. No. 953,411; Mar. 29; Sp. p. 6102; Gaz. vol. 152; p. 1096.
Tricycle driving mechanism, Tractor-. B. Hourioux. No. 966,445; Aug. 9; Sp. p. 1268; Gaz. vol. 157; p. 228.
Trigger-controller. R. A. Moore. No. 953,279; Mar. 29; Sp. p. 5809; Gaz. vol. 152; p. 1051.
Trigger-controller. R. A. Moore. No. 960,185; May 31; Sp. p. 8132; Gaz. vol. 154; p. 1368.
Trigger-guard. H. P. Westcott and J. M. Hirt. No. 955,237; Apr. 19; Sp. p. 3331; Gaz. vol. 153; p. 594.
Trigger-lock. R. A. Moore. No. 945,852; Jan. 11; Sp. p. 1896; Gaz. vol. 150; p. 314.
Trigger mechanism. E. R. Williams. No. 959,413; May 24; Sp. p. 6450; Gaz. vol. 154; p. 1080.
Trigger mechanism. C. H. A. F. L. Ross. No. 975,286; Nov. 8; Sp. p. 2721; Gaz. vol. 160; p. 441.
Trim-clamp. N. A. Nilson. No. 967,227; Aug. 16; Sp. p. 3000; Gaz. vol. 157; p. 519.
Trimmer: *See* Cake-trimmer; Edge-trimmer; Hedge-trimmer; Hoof-trimmer; Insole-edge trimmer; Lawn-trimmer; Lawn and hedge trimmer; Paper-trimmer; Saw-trimmer.
Trimming-cutting machine. D. Maus. No. 963,453; July 5; Sp. p. 982; Gaz. vol. 156; p. 148.
Trimming-machine, Rotary. L. Muther. No. 954,578; Apr. 12; Sp. p. 1877; Gaz. vol. 153; p. 335.
Trimming or shearing machine gage. F. C. Graves. No. 964,240; July 12; Sp. p. 2639; Gaz. vol. 156; p. 434.
Trip-coupling. J. M. Walker. No. 967,275; Aug. 16; Sp. p. 3089; Gaz. vol. 157; p. 535.
Tripod. J. D. Boyd. No. 964,381; July 12; Sp. p. 2918; Gaz. vol. 156; p. 481.
Tripping mechanism. P. Vliet. No. 945,644; Jan. 4; Sp. p. 1365; Gaz. vol. 150; p. 213.
Trisodium phosphate with hydrated sodium carbonate, Manufacture of. W. E. Ridenour. No. 950,159; Feb. 22; Sp. p. 5060; Gaz. vol. 151; p. 888.
Trocar, Self-cleaning. O. L. Bunn. No. 958,854; May 24; Sp. p. 5313; Gaz. vol. 154; p. 895.
Trocha-cutter. G. F. Nelson and J. H. Bean. No. 979,686; Dec. 27; Sp. p. 4895; Gaz. vol. 161; p. 858.
Trolley. E. N. Hescock. No. 951,214; Mar. 8; Sp. p. 1509; Gaz. vol. 152; p. 273.
Trolley. G. A. True. No. 953,448; Mar. 29; Sp. p. 6180; Gaz. vol. 152; p. 1108.
Trolley. G. E. Lynch. No. 953,915; Apr. 5; Sp. p. 458; Gaz. vol. 153; p. 84.
Trolley. G. F. Steedman. No. 960,728; June 7; Sp. p. 991; Gaz. vol. 155; p. 165.
Trolley. G. A. Lefley. No. 962,365; June 21; Sp. p. 4458; Gaz. vol. 155; p. 768.
Trolley. C. Pauli. No. 963,387; July 5; Sp. p. 851; Gaz. vol. 156; p. 126.
Trolley. W. W. Hutchingson. No. 963,571; July 5; Sp. p. 1229; Gaz. vol. 156; p. 188.
Trolley. S. H. Smith. No. 966,255; Aug. 2; Sp. p. 881; Gaz. vol. 157; p. 140.
Trolley. G. Weber. No. 970,865; Sept. 20; Sp. p. 3705; Gaz. vol. 158; p. 633.
Trolley. J. and J. Ország. No. 971,399; Sept. 27; Sp. p. 4772; Gaz. vol. 158; p. 835.
Trolley. H. B. Potts. No. 972,240; Oct. 11; Sp. p. 1598; Gaz. vol. 159; p. 281.
Trolley. G. A. Miller. No. 974,584; Nov. 1; Sp. p. 1167; Gaz. vol. 160; p. 177.
Trolley. J. Tari. No. 975,302; Nov. 8; Sp. p. 2770; Gaz. vol. 160; p. 447.
Trolley and box, Aerial mail. T. G., S. C., and E. G. Anderson. No. 959,418; May 24; Sp. p. 6458; Gaz. vol. 154; p. 1081.
Trolley-base. C. E. Gierding. No. 970,211; Sept. 13; Sp. p. 2306; Gaz. vol. 158; p. 387.
Trolley-car-pole attachment. G. R. Dunn. No. 971,494; Sept. 27; Sp. p. 4942; Gaz. vol. 158; p. 865.
Trolley-catcher. J. R. Ricketts. No. 974,920; Nov. 8; Sp. p. 1908; Gaz. vol. 160; p. 315.
Trolley-catcher. F. J. Roche. No. 977,476; Dec. 6; Sp. p. 109; Gaz. vol. 161; p. 19.
Trolley circuit connection. C. W. Whaley. No. 979,116; Dec. 20; Sp. p. 3697; Gaz. vol. 161; p. 641.
Trolley-clamp. C. H. Davis. No. 949,885; Feb. 22; Sp. p. 4439; Gaz. vol. 151; p. 793.
Trolley-conductor clamp. W. Schaake. No. 958,833; May 24; Sp. p. 5265; Gaz. vol. 154; p. 887.
Trolley device. W. Peterman. No. 965,740; July 26; Sp. p. 5922; Gaz. vol. 156; p. 1007.
Trolley device, Electrical. L. G. Wilson. No. 945,660; Jan. 4; Sp. p. 1403; Gaz. vol. 150; p. 219.
Trolley for electric cars. A. Del Valle. No. 976,728; Nov. 22; Sp. p. 5805; Gaz. vol. 160; p. 983.
Trolley for electric railways. C. D. Coyle. No. 960,829; June 7; Sp. p. 1197; Gaz. vol. 155; p. 199.
Trolley for electric railways, Lateral. A. J. Steinweg. No. 975,650; Nov. 15; Sp. p. 3490; Gaz. vol. 160; p. 592.
Trolley for electrically-propelled vehicles. J. Kolin. No. 960,559; June 7; Sp. p. 661; Gaz. vol. 155; p. 108.
Trolley-guard. F. B. Wagner. No. 957,585; May 10; Sp. p. 2303; Gaz. vol. 154; p. 400.
Trolley-guard. F. L. Lucas. No. 968,247; Aug. 23; Sp. p. 5152; Gaz. vol. 157; p. 887.
Trolley-guard. M. Eisele. No. 976,859; Nov. 29; Sp. p. 6119; Gaz. vol. 160; p. 1054.
Trolley guard and finder. H. R. Sherman. No. 979,712; Dec. 27; Sp. p. 4940; Gaz. vol. 161; p. 866.
Trolley-guide. F. C. Vogan. No. 965,424; July 26; Sp. p. 5238; Gaz. vol. 156; p. 896.
Trolley-hanger. T. Varney. No. 946,625; Jan. 18; Sp. p. 3616; Gaz. vol. 150; p. 607.
Trolley-harp. R. D. Blackstone. No. 970,981; Sept. 20; Sp. p. 3920; Gaz. vol. 158; p. 670.
Trolley-harp. L. E. Bradt. No. 971,485; Sept. 27; Sp. p. 4928; Gaz. vol. 158; p. 862.
Trolley-harp. W. W. Stewart. No. 974,611; Nov. 1; Sp. p. 1213; Gaz. vol. 160; p. 186.
Trolley-head. E. E. Duff. No. 976,445; Nov. 22; Sp. p. 5239; Gaz. vol. 160; p. 889.
Trolley-head. E. N. McCall. No. 977,416; Nov. 29; Sp. p. 7376; Gaz. vol. 160; p. 1247.
Trolley-head for electric cars. C. S. Bayley. No. 954,014; Apr. 5; Sp. p. 655; Gaz. vol. 153; p. 117.
Trolley-line circuit-breaker. J. C. King and T. J. Reed. No. 953,207; Mar. 29; Sp. p. 5655; Gaz. vol. 152; p. 1027.

Alphabetical list of inventions—Continued.

Trolley-line construction, Electric-. T. Varney. No. 946,590; Jan. 18; Sp. p. 3532; Gaz. vol. 150; p. 595.
Trolley, Pantograph-. F. E. Case. No. 963,865; July 12; Sp. p. 1884; Gaz. vol. 156; p. 309.
Trolley-pole. H. Brod. No. 950,630; Mar. 1; Sp. p. 356; Gaz. vol. 152; p. 58.
Trolley-pole. C. E. Bradford. No. 960,152; May 31; Sp. p. 8068; Gaz. vol. 154; p. 1356.
Trolley-pole. P. Schnell. No. 976,501; Nov. 22; Sp. p. 5350; Gaz. vol. 160; p. 907.
Trolley-pole. C. M. Speck and C. F. Earl. No. 976,942; Nov. 29; Sp. p. 6321; Gaz. vol. 160; p. 1083.
Trolley-pole. R. F. Robinson and H. A. Owen. No. 977,224; Nov. 29; Sp. p. 6951; Gaz. vol. 160; p. 1181.
Trolley-pole ice-cleaner. J. C. Poe. No. 967,051; Aug. 9; Sp. p. 2633; Gaz. vol. 157; p. 432.
Trolley-poles and other articles, Clamp for mending broken. R. W. Lovett. No. 958,751; May 24; Sp. p. 5067; Gaz. vol. 154; p. 856.
Trolley-poles, Automatic safety device for. M. M. Zellers. No. 954,907; Apr. 12; Sp. p. 2668; Gaz. vol. 153; p. 451.
Trolley-replacer. D. L. McBride and H. A. Fiske. No. 966,847; Aug. 9; Sp. p. 2204; Gaz. vol. 157; p. 363.
Trolley-retractor. L. B. Stanley. No. 978,953; Dec. 20; Sp. p. 3300; Gaz. vol. 161; p. 583.
Trolley-retriever. C. E. Schlagle and M. F. Hodge. No. 954,139; Apr. 5; Sp. p. 912; Gaz. vol. 153; p. 159.
Trolley-retriever. W. C. Starkey. No. 969,994; Sept. 13; Sp. p. 1841; Gaz. vol. 158; p. 313.
Trolley-retriever. N. Peterson. No. 977,398; Nov. 29; Sp. p. 7337; Gaz. vol. 160; p. 1241.
Trolley-retriever and take-up device. P. D. Milloy. No. 968,179; Aug. 23; Sp. p. 5008; Gaz. vol. 157; p. 864.
Trolley-retrieving device. G. W. Snow. No. 951,622; Mar. 8; Sp. p. 2352; Gaz. vol. 152; p. 407.
Trolley safety-lock. J. L. Blair. No. 966,301; Aug. 2; Sp. p. 961; Gaz. vol. 157; p. 153.
Trolley-shifter. S. L. Hanson. No. 969,754; Sept. 6; Sp. p. 1294; Gaz. vol. 158; p. 207.
Trolley-stand. W. Horn. No. 965,817; July 26; Sp. p. 6094; Gaz. vol. 156; p. 1034.
Trolley-stand. C. M. Feist. No. 979,940; Dec. 27; Sp. p. 5458; Gaz. vol. 161; p. 943.
Trolley-switch. F. L. Sessions. No. 962,533; June 28; Sp. p. 4851; Gaz. vol. 155; p. 853.
Trolley system, Overhead-. K. von Kando. No. 946,549; Jan. 18; Sp. p. 3461; Gaz. vol. 150; p. 582.
Trolley-wheel. B. F. Smith. No. 947,165; Jan. 18; Sp. p. 4759; Gaz. vol. 150; p. 784.
Trolley-wheel. G. H. Downs. No. 947,436; Jan. 25; Sp. p. 5412; Gaz. vol. 150; p. 907.
Trolley-wheel. C. W. Putnam. No. 947,758; Jan. 25; Sp. p. 6080; Gaz. vol. 150; p. 1014.
Trolley-wheel. C. W. Putnam. No. 947,759; Jan. 25; Sp. p. 6081; Gaz. vol. 150; p. 1015.
Trolley-wheel. A. M. Levering. No. 954,312; Apr. 5; Sp. p. 1312; Gaz. vol. 153; p. 217.
Trolley-wheel. B. B. Gibbs. No. 955,863; Apr. 26; Sp. p. 4708; Gaz. vol. 153; p. 836.
Trolley-wheel. O. S. Chew. No. 957,655; May 10; Sp. p. 2452; Gaz. vol. 154; p. 424.
Trolley-wheel. S. L. McAdams. No. 967,031; Aug. 9; Sp. p. 2589; Gaz. vol. 157; p. 425.
Trolley-wheel. P. F. Morrissey, J. Wise, and W. A. Byrne. No. 968,876; Aug. 30; Sp. p. 6485; Gaz. vol. 157; p. 1129.
Trolley-wheel. E. K. Harris. No. 976,172; Nov. 22; Sp. p. 4602; Gaz. vol. 160; p. 792.
Trolley-wheel guard. H. L. Miller. No. 961,786; June 21; Sp. p. 3193; Gaz. vol. 155; p. 573.
Trolley-wheel guard. E. E. Kelley. No. 979,311; Dec. 20; Sp. p. 4108; Gaz. vol. 161; p. 708.
Trolley-wheel holder and guide. W. A. Gunn and L. W. Link. No. 958,744; May 24; Sp. p. 5055; Gaz. vol. 154; p. 854.
Trolley-wheel replacer. J. W. Anderson. No. 955,742; Apr. 19; Sp. p. 4437; Gaz. vol. 153; p. 766.
Trolley-wheel-turning machine. F. Hudson. No. 960,932; June 7; Sp. p. 1377; Gaz. vol. 155; p. 232.
Trolley-wire crossing. H. L. Griswold and T. Kerin. No. 953,996; Apr. 5; Sp. p. 624; Gaz. vol. 153; p. 111.
Trolley-wire ear. J. H. Callender. No. 958,906; May 24; Sp. p. 5445; Gaz. vol. 154; p. 912.
Trolley-wire hanger. W. A. McCallum. No. 955,185; Apr. 19; Sp. p. 3202; Gaz. vol. 153; p. 575.
Trolley-wire hanger. J. T. Scanlon. No. 959,076; May 24; Sp. p. 5785; Gaz. vol. 154; p. 969.
Trolley-wire ice-remover. J. W. Brown and C. E. Doyle. No. 963,205; July 5; Sp. p. 466; Gaz. vol. 156; p. 64.
Trolley-wire splicer. H. L. Griswold and T. Kerin. No. 963,288; July 5; Sp. p. 660; Gaz. vol. 156; p. 92.
Trolley-wire-suspension means. S. S. Berkley. No. 960,065; May 31; Sp. p. 7915; Gaz. vol. 154; p. 1329.
Trolley-wires and the like, Suspension device for. G. A. Mead. No. 948,789; Feb. 8; Sp. p. 2147; Gaz. vol. 151; p. 365.
Trolley-wires by means of the catenary system, Bridge for supporting. R. L. Allen. No. 974,225; Nov. 1; Sp. p. 268; Gaz. vol. 160; p. 45.
Trolley-wires, &c., Catenary suspension for. G. A. Mead. No. 945,972; Jan. 11; Sp. p. 2149; Gaz. vol. 150; p. 358.
Trolley-wires of electric railways, Supporting device for. K. von Kando. No. 946,135; Jan. 11; Sp. p. 2466; Gaz. vol. 150; p. 412.
Trombone. S. J. Summers. No. 959,034; May 24; Sp. p. 5683; Gaz. vol. 154; p. 955.
Trombone. J. L. De Good. No. 971,833; Oct. 4; Sp. p. 672; Gaz. vol. 159; p. 118.
Trombone locking device. H. C. Martin No. 977,026; Nov. 29; Sp. p. 6521; Gaz. vol. 160; p. 1113.
Trombone, Slide-. H. N. White. No. 958,051; May 17; Sp. p. 3465; Gaz. vol. 154; p. 593.
Trombone, Slide-. H. N. White. No. 977,766; Dec. 6; Sp. p. 767; Gaz. vol. 161; p. 119.
Trombones, Slide-bearing for. S. J. Summers. No. 959,033; May 24; Sp. p. 5681; Gaz. vol. 154; p. 954.
Trough: *See* Cross-roll trough; Eaves-trough; Feed-trough; Hog-trough; Stock-trough; Watering-trough.
Trough-clamp. A. J. Ruppert. No. 973,387; Oct. 18; Sp. p. 4135; Gaz. vol. 159; p. 705.
Trousers. F. H. Sprague. No. 951,262; Mar. 8; Sp. p. 1610; Gaz. vol. 152; p. 288.
Trousers. L. and W. Levy. No. 967,209; Aug. 16; Sp. p. 2962; Gaz. vol. 157; p. 513.
Trousers. J. Greenwald. No. 968,343; Aug. 23; Sp. p. 5348; Gaz. vol. 157; p. 922.
Trousers. A. Leander. No. 969,380; Sept. 6; Sp. p. 496; Gaz. vol. 158; p. 79.
Trousers, Adjustable. A. P. Melen. No. 959,952; May 31; Sp. p. 7643; Gaz. vol. 154; p. 1289.
Trousers and other garments, Supporting-band for. C. A. Blake. No. 954,849; Apr. 12; Sp. p. 2529; Gaz. vol. 153; p. 432.
Trousers, Apparatus to give suitable form to the. D. Millet. No. 965,829; July 26; Sp. p. 6125; Gaz. vol. 156; p. 1038.
Trousers-band regulator and belt-retainer, Combination. J. E. Weil. No. 959,086; May 24; Sp. p. 5806; Gaz. vol. 154; p. 972.
Trousers-bands, Belt-keeper for. O. E. Clark. No. 962,127; June 21; Sp. p. 3965; Gaz. vol. 155; p. 689.
Trousers-belt-supporting device. J. D. Houck. No. 967,521; Aug. 16; Sp. p. 3613; Gaz. vol. 157; p. 620.
Trousers-fastener. J. B. Fincher. No. 952,321; Mar. 15; Sp. p. 3749; Gaz. vol. 152; p. 672.
Trousers-hanger. P. L. L. Yorgensen. No. 956,254; Apr. 26; Sp. p. 5574; Gaz. vol. 153; p. 972.
Trousers-hanger. W. C. Thatcher. No. 959,181; May 24; Sp. p. 6003; Gaz. vol. 154; p. 1003.
Trousers-hanger. V. L. Littig. No. 964,172; July 12; Sp. p. 2504; Gaz. vol. 156; p. 411.
Trousers-hanger. M. H. Cazier and A. P. Dike. No. 977,594; Dec. 6; Sp. p. 410; Gaz. vol. 161; p. 60.
Trousers hanger and stretcher. L. G. Hunter. No. 969,872; Sept. 13; Sp. p. 1581; Gaz. vol. 158; p. 272.
Trousers hanger and stretcher. R. Davies. No. 972,602; Oct. 11; Sp. p. 2387; Gaz. vol. 159; p. 407.
Trousers-legs, Means for creasing. D. Marinsky. No. 979,780; Dec. 27; Sp. p. 5106; Gaz. vol. 161; p. 889.
Trousers-rack. T. A. Cleary. No. 959,112; May 24; Sp. p. 5851; Gaz. vol. 154; p. 981.
Trousers-stretcher. R. B. Liddle. No. 948,734; Feb. 8; Sp. p. 2021; Gaz. vol. 151; p. 346.
Trousers-stretcher. R. P. Baird. No. 958,576; May 17; Sp. p. 4712; Gaz. vol. 154; p. 773.
Trousers-stretcher. Y. Takano. No. 972,662; Oct. 11; Sp. p. 2515; Gaz. vol. 159; p. 428.
Trousers-stretcher. I. B. Macomber. No. 973,443; Oct. 18; Sp. p. 4247; Gaz. vol. 159; p. 724.
Trousers-stretcher. I. B. Macomber. No. 973,444; Oct. 18; Sp. p. 4249; Gaz. vol. 159; p. 724.
Trousers stretcher and hanger. J. A. Gabioud. No. 952,190; Mar. 15; Sp. p. 3478; Gaz. vol. 152; p. 626.
Trousers stretcher and presser. W. V. Lane. No. 948,895; Feb. 8; Sp. p. 2357; Gaz. vol. 151; p. 400.
Trousers-supporter. F. M. Hilgert. No. 966,093; Aug. 2; Sp. p. 531; Gaz. vol. 157; p. 86.
Trousers-supporting device. J. F. Kurtz. No. 949,827; Feb. 22; Sp. p. 4286; Gaz. vol. 151; p. 772.
Trowel. W. W. Wolary and W. B. Dupuis. No. 952,971; Mar. 22; Sp. p. 5129; Gaz. vol. 152; p. 921.
Trowel. J. G. Thatford. No. 960,210; May 31; Sp. p. 8186; Gaz. vol. 154; p. 1378.
Trowel. A. A. Harvie. No. 977,387; Nov. 29; Sp. p. 7286; Gaz. vol. 160; p. 1237.
Trowel, Adjustable. R. W. Linville. No. 961,302; June 14; Sp. p. 2169; Gaz. vol. 155; p. 388.
Trowel, Adjustable. R. W. Linville. No. 963,717; July 5; Sp. p. 1515; Gaz. vol. 156; p. 236.
Truck. S. B. Minnich. No. 949,774; Feb. 22; Sp. p. 4168; Gaz. vol. 151; p. 753.
Truck. T. L. McClellan. No. 949,942; Feb. 22; Sp. p. 4557; Gaz. vol. 151; p. 813.
Truck. P. Schedin. No. 953,862; Apr. 5; Sp. p. 361; Gaz. vol. 153; p. 65.
Truck. F. M. Ashley. No. 957,136; May 3; Sp. p. 1350; Gaz. vol. 154; p. 216.
Truck. E. Rosenfeld. No. 960,407; June 7; Sp. p. 345; Gaz. vol. 155; p. 58.

Truck. B. F. Seibert. No. 961,807; June 21; Sp. p. 3248; Gaz. vol. 155; p. 580.
Truck. A. Marvin. No. 964,039; July 12; Sp. p. 2230; Gaz. vol. 156; p. 367.
Truck. C. A. Williams. No. 965,493; July 26; Sp. p. 5375; Gaz. vol. 156; p. 920.
Truck. V. A. Jenks. No. 966,214; Aug. 2; Sp. p. 804; Gaz. vol. 157; p. 127.
Truck. J. D. Taylor. No. 966,620; Aug. 9; Sp. p. 1688; Gaz. vol. 157; p. 287.
Truck. G. E. Row. No. 967,061; Aug. 9; Sp. p. 2646; Gaz. vol. 157; p. 435.
Truck. A. Marvin. No. 973,797; Oct. 25; Sp. p. 5000; Gaz. vol. 159; p. 869.
Truck. C. E. M. Miller. No. 976,201; Nov. 22; Sp. p. 4656; Gaz. vol. 160; p. 802.
Truck. J. W. Taylor. No. 977,759; Dec. 6; Sp. p. 756; Gaz. vol. 161; p. 117.
Truck. C. Gentle. No. 978,015; Dec. 6; Sp. p. 1281; Gaz. vol. 161; p. 205.
Truck. W. Voss. No. 978,242; Dec. 13; Sp. p. 1786; Gaz. vol. 161; p. 313.
Truck. C. E. Barba. No. 978,428; Dec. 13; Sp. p. 2186; Gaz. vol. 161; p. 379.
Truck. C. W. Underwood. No. 978,517; Dec. 13; Sp. p. 2371; Gaz. vol. 161; p. 409.
Truck, Adjustable. J. Porteous. No. 979,093; Dec. 20; Sp. p. 3613; Gaz. vol. 161; p. 631.
Truck-adjusting mechanism. T. E. Lind. No. 967,647; Aug. 16; Sp. p. 3854; Gaz. vol. 157; p. 661.
Truck and stand, Combined jack. H. N. Day. No. 948,299; Feb. 1; Sp. p. 1078; Gaz. vol. 151; p. 175.
Truck attachment, Car-. A. C. Dennis. No. 969,043; Aug. 30; Sp. p. 6810; Gaz. vol. 157; p. 1187.
Truck, Barrel-. C. Bjorklund. No. 957,840; May 10; Sp. p. 2828; Gaz. vol. 154; p. 485.
Truck-brake. W. S. Adams. No. 946,931; Jan. 18; Sp. p. 4324; Gaz. vol. 150; p. 710.
Truck-brake. E. D. Harding. No. 961,494; June 14; Sp. p. 2596; Gaz. vol. 155; p. 452.
Truck-brake attachment, Warehouse-. J. Jones. No. 974,572; Nov. 1; Sp. p. 1145; Gaz. vol. 160; p. 173.
Truck brake, Baggage-. H. S. Parker and E. O. Lieb. No. 959,251; May 24; Sp. p. 6142; Gaz. vol. 154; p. 1026.
Truck, Car-. J. C. Barber. No. 945,672; Jan. 4; Sp. p. 1424; Gaz. vol. 150; p. 222.
Truck, Car-. A. C. Vauclain. No. 946,293; Jan. 11; Sp. p. 2825; Gaz. vol. 150; p. 470.
Truck, Car-. W. L. Austin. No. 951,043; Mar. 1; Sp. p. 1177; Gaz. vol. 152; p. 193.
Truck, Car-. B. Magor. No. 951,253; Mar. 8; Sp. p. 1592; Gaz. vol. 152; p. 285.
Truck, Car-. J. B. Seely. No. 953,555; Mar. 29; Sp. p. 6403; Gaz. vol. 152; p. 1147.
Truck, Car-. J. C. Barber. No. 953,681; Apr. 5; Sp. p. 5; Gaz. vol. 153; p. 3.
Truck, Car-. C. H. Knobbs. No. 956,900; May 3; Sp. p. 871; Gaz. vol. 154; p. 139.
Truck, Car-. J. C. Barber. No. 962,937; June 28; Sp. p. 5662; Gaz. vol. 155; p. 991.
Truck, Car-. J. C. Barber. No. 963,978; July 12; Sp. p. 2114; Gaz. vol. 156; p. 346.
Truck, Car-. G. Rouy. No. 971,929; Oct. 4; Sp. p. 915; Gaz. vol. 159; p. 155.
Truck, Car-. J. E. Simpson and W. D. Puckett. No. 972,581; Oct. 11; Sp. p. 2344; Gaz. vol. 159; p. 401.
Truck, Car-. G. P. Ritter. No. 972,921; Oct. 18; Sp. p. 3115; Gaz. vol. 159; p. 545.
Truck, Car-. G. G. Floyd. No. 973,024; Oct. 18; Sp. p. 3351; Gaz. vol. 159; p. 580.
Truck, Car-. S. M. Vauclain. No. 975,303; Nov. 8; Sp. p. 2773; Gaz. vol. 160; p. 448.
Truck, Car-. H. W. Blake. No. 976,843; Nov. 29; Sp. p. 6076; Gaz. vol. 160; p. 1047.
Truck, Car-. J. C. Barber. No. 977,429; Dec. 6; Sp. p. 7; Gaz. vol. 161; p. 4.
Truck, Car-. H. C. Buhoup. No. 977,707; Dec. 6; Sp. p. 652; Gaz. vol. 161; p. 99.
Truck, Casket-. J. Pfeifer. No. 948,482; Feb. 8; Sp. p. 1478; Gaz. vol. 151; p. 262.
Truck, Casket-. P. J. Kremer. No. 974,679; Nov. 1; Sp. p. 1359; Gaz. vol. 160; p. 212.
Truck connection. E. Stevens. No. 975,475; Nov. 15; Sp. p. 3117; Gaz. vol. 160; p. 532.
Truck construction. W. R. McKeen, Jr. No. 973,531; Oct. 25; Sp. p. 4446; Gaz. vol. 159; p. 777.
Truck construction for cars. S. P. Bush. No. 958,362; May 17; Sp. p. 4293; Gaz. vol. 154; p. 701.
Truck, Dumping-. W. H. Hunt. No. 961,861; June 21; Sp. p. 3377; Gaz. vol. 155; p. 598.
Truck, Dumping or unpacking. W. V. Ellis. No. 948,043; Feb. 1; Sp. p. 552; Gaz. vol. 151; p. 88.
Truck, Electric. A. F. Batchelder. No. 977,156; Nov. 29; Sp. p. 6810; Gaz. vol. 160; p. 1157.
Truck equalizer, Six-wheel-. E. Posson. No. 979,033; Dec. 20; Sp. p. 3492; Gaz. vol. 161; p. 611.
Truck for agricultural machines, Supporting-. G. G. Helmke. No. 949,071; Feb. 15; Sp. p. 2723; Gaz. vol. 151; p. 484.
Truck for carrying radiators. J. L. Welshans. No. 963,410; July 5; Sp. p. 900; Gaz. vol. 156; p. 133.
Truck for cars, Swing-motion. C. D. Young. No. 964,834; July 19; Sp. p. 4013; Gaz. vol. 156; p. 668.
Truck for furnaces, Charging-. W. E. Jewell. No. 947,180; Jan. 18; Sp. p. 4788; Gaz. vol. 150; p. 789.
Truck for harvesters and binders, Tongue-. J. Flaig. (Reissue.) No. 13,169; Nov. 22; Sp. p. 6037; Gaz. vol. 160; p. 1020.
Truck for harvesters, Tongue-. J. A. Stone. No. 946,885; Jan. 18; Sp. p. 4223; Gaz. vol. 150; p. 695.
Truck for hay-loaders. W. C. F. Blossfeld. No. 969,595; Sept. 6; Sp. p. 959; Gaz. vol. 158; p. 152.
Truck for locomotives, Swing-. W. L. Austin. No. 952,402; Mar. 15; Sp. p. 3899; Gaz. vol. 152; p. 698.
Truck for manure-loaders. R. Shedenhelm. No. 949,202; Feb. 15; Sp. p. 2980; Gaz. vol. 151; p. 528.
Truck for mining-machines. J. C. Hirst. No. 960,923; June 7; Sp. p. 1362; Gaz. vol. 155; p. 229.
Truck for planters, &c., Front. I. D. Brim. No. 959,302; May 24; Sp. p. 6241; Gaz. vol. 154; p. 1044.
Truck for railways, Elastic overhead. H. H. Tunis. No. 962,179; June 21; Sp. p. 4079; Gaz. vol. 155; p. 708.
Truck-frame. W. D. Lowry. No. 977,204; Nov. 29; Sp. p. 6919; Gaz. vol. 160; p. 1175.
Truck-frame bolster-guide. H. T. Anderson. No. 966,375; Aug. 2; Sp. p. 1099; Gaz. vol. 157; p. 177.
Truck-frame bolster-guide. H. T. Anderson. No. 966,376; Aug. 2; Sp. p. 1100; Gaz. vol. 157; p. 177.
Truck frame, Car-. W. F. Richards. No. 966,123; Aug. 2; Sp. p. 587; Gaz. vol. 157; p. 96.
Truck-frame, Folding. P. J. Kremer. No. 974,678; Nov. 1; Sp. p. 1357; Gaz. vol. 160; p. 211.
Truck, Hand-. J. Buckley. No. 948,964; Feb. 8; Sp. p. 2483; Gaz. vol. 151; p. 422.
Truck, Hand-. T. C. Frederiksen. No. 953,523; Mar. 29; Sp. p. 6346; Gaz. vol. 152; p. 1137.
Truck, Hand-. F. E. Thomes. No. 970,137; Sept. 13; Sp. p. 2123; Gaz. vol. 158; p. 361.
Truck, Hand-. F. P. Brown. No. 970,787; Sept. 20; Sp. p. 3541; Gaz. vol. 158; p. 606.
Truck, Hand-. C. G. Gross. No. 974,135; Nov. 1; Sp. p. 56; Gaz. vol. 160; p. 12.
Truck, Hand-. W. H. Archibald. No. 979,053; Dec. 20; Sp. p. 3531; Gaz. vol. 161; p. 617.
Truck, Locomotive-. H. D. Taylor. No. 948,067; Feb. 1; Sp. p. 607; Gaz. vol. 151; p. 98.
Truck, Locomotive trailer-. W. S. Hodges. No. 970,333; Sept. 13; Sp. p. 2541; Gaz. vol. 158; p. 428.
Truck, Lumber-. E. B. Merry. No. 957,431; May 10; Sp. p. 2016; Gaz. vol. 154; p. 349.
Truck, Manure-. G. A. and C. J. Pieper. No. 952,711; Mar. 22; Sp. p. 4599; Gaz. vol. 152; p. 833.
Truck, Maximum-traction. W. S. Adams. No. 959,040; May 24; Sp. p. 5695; Gaz. vol. 154; p. 957.
Truck, Meat-. C. A. Baker. No. 946,095; Jan. 11; Sp. p. 2395; Gaz. vol. 150; p. 399.
Truck mechanism. W. L. Kissel. No. 964,434; July 12; Sp. p. 3020; Gaz. vol. 156; p. 498.
Truck, Motor-. J. Taylor. No. 950,267; Feb. 22; Sp. p. 5283; Gaz. vol. 151; p. 926.
Truck, Motor-car. M. Albrecht. No. 970,596; Sept. 20; Sp. p. 3090; Gaz. vol. 158; p. 538.
Truck or running-gear, Vehicle. W. S. Wills. No. 946,479; Jan. 11; Sp. p. 3313; Gaz. vol. 150; p. 533.
Truck or vehicle, Dumping. W. H. Hunt. No. 955,875; Apr. 26; Sp. p. 4747; Gaz. vol. 153; p. 841.
Truck, Piano-. L. S. Hubbard. No. 968,564; Aug. 30; Sp. p. 5814; Gaz. vol. 157; p. 1023.
Truck, Piano-. G. A. Perry. No. 979,089; Dec. 20; Sp. p. 3607; Gaz. vol. 161; p. 629.
Truck, Portable. W. H. Harris. No. 955,398; Apr. 19; Sp. p. 3689; Gaz. vol. 153; p. 648.
Truck, Power car-. D. P. Sanders. No. 950,057; Feb. 22; Sp. p. 4854; Gaz. vol. 151; p. 854.
Truck, Railway-. E. D. Priest. No. 977,839; Dec. 6; Sp. p. 910; Gaz. vol. 161; p. 144.
Truck, Railway-car. W. F. Richards. No. 965,600; July 26; Sp. p. 5634; Gaz. vol. 156; p. 959.
Truck, Railway-car. E. I. Dodds. No. 966,432; Aug. 9; Sp. p. 1225; Gaz. vol. 157; p. 222.
Truck, Rigid. H. H. Tunis. No. 955,226; Apr. 19; Sp. p. 3309; Gaz. vol. 153; p. 591.
Truck side frame. J. H. McCormick. No. 945,133; Jan. 4; Sp. p. 253; Gaz. vol. 150; p. 44.
Truck side frame. A. O. Buckius, Jr. No. 958,474; May 17; Sp. p. 4516; Gaz. vol. 154; p. 739.
Truck side frame. E. M. Richardson. No. 958,541; May 17; Sp. p. 4639; Gaz. vol. 154; p. 762.
Truck side frame and journal-box, Car-. G. G. Floyd. No. 956,633; May 3; Sp. p. 271; Gaz. vol. 154; p. 45.
Truck side frame, Car-. J. H. Baker. No. 958,462; May 17; Sp. p. 4496; Gaz. vol. 154; p. 736.
Truck side frame, Car-. C. A. Schroyer. No. 970,757; Sept. 20; Sp. p. 3475; Gaz. vol. 158; p. 594.
Truck side frame, Car-. W. D. Lowry. No. 972,770; Oct. 11; Sp. p. 2730; Gaz. vol. 159; p. 464.
Truck side frames, Adjustable column-guide for. C. S. Shallenberger. No. 978,946; Dec. 20; Sp. p. 3278; Gaz. vol. 161; p. 581.

Alphabetical list of inventions—Continued.

Truck, Suspension-railway. F. O. Butler and S. C. Rockman. No. 945,750; Jan. 11; Sp. p. 1652; Gaz. vol. 150; p. 277.
Truck, Tongue-. C. A. Foell. No. 960,082; May 31; Sp. p. 7943; Gaz. vol. 154; p. 1334.
Truck, Tongue-. C. F. Hartley. No. 967,017; Aug. 9; Sp. p. 2557; Gaz. vol. 157; p. 420.
Truck, Wheeled. G. B. Norris. No. 960,685; June 7; Sp. p. 909; Gaz. vol. 155; p. 151.
Trucks, Adjustable journal-box for. S. M. Chase. No. 979,648; Dec. 27; Sp. p. 4819; Gaz. vol. 161; p. 846.
Trucks, Basket attachment for barrel-. C. Bjorklund. No. 957,406; May 10; Sp. p. 1964; Gaz. vol. 154; p. 339.
Trucks, Derailment safety device for railway-. F. Rückert. No. 945,140; Jan. 4; Sp. p. 265; Gaz. vol. 150; p. 46.
Trucks, Forward and rear drive for car-. O. Crosby. No. 962,320; June 21; Sp. p. 4370; Gaz. vol. 155; p. 754.
Trucks, Saddle for. J. Lyons. No. 953,043; Mar. 29; Sp. p. 5283; Gaz. vol. 152; p. 973.
Trucks, Side-play liner for locomotive-. W. H. Thoms and H. W. Dummert. No. 970,138; Sept. 13; Sp. p. 2124; Gaz. vol. 158; p. 362.
Trucks, Spring-plank for car-. J. H. Baker. No. 949,292; Feb. 15; Sp. p. 3168; Gaz. vol. 151; p. 558.
Trucks, Swivel-plate for motor-. A. Christianson. No. 947,792; Feb. 1; Sp. p. 28; Gaz. vol. 151; p. 7.
Trunk. I. S. Kallis and J. Berg. No. 948,732; Feb. 8; Sp. p. 2019; Gaz. vol. 151; p. 346.
Trunk. W. Sachs. No. 953,715; Apr. 5; Sp. p. 62; Gaz. vol. 153; p. 14.
Trunk. E. E. Boyd. No. 953,815; Apr. 5; Sp. p. 270; Gaz. vol. 153; p. 48.
Trunk. C. A. McCarthy. No. 957,704; May 10; Sp. p. 2553; Gaz. vol. 154; p. 442.
Trunk. I. S. Kallis and J. Berg. No. 966,451; Aug. 9; Sp. p. 1279; Gaz. vol. 157; p. 230.
Trunk. C. H. Paxton. No. 969,900; Sept. 13; Sp. p. 1636; Gaz. vol. 158; p. 282.
Trunk. C. Billburg. No. 976,339; Nov. 22; Sp. p. 5004; Gaz. vol. 160; p. 849.
Trunk and suit-case lock. H. F. Crim and W. C. Loy. No. 954,854; Apr. 12; Sp. p. 2536; Gaz. vol. 153; p. 433.
Trunk, Automobile-tire. S. Wohlfeld. No. 973,329; Oct. 18; Sp. p. 4006; Gaz. vol. 159; p. 685.
Trunk, chest, or the like. W. E. Smith. No. 977,049; Nov. 29; Sp. p. 6567; Gaz. vol. 160; p. 1120.
Trunk, Cylindrical. J. A. H. Villmow. No. 968,098; Aug. 23; Sp. p. 4810; Gaz. vol. 157; p. 836.
Trunk-fastener. C. Dittmar. No. 955,856; Apr. 26; Sp. p. 4690; Gaz. vol. 153; p. 834.
Trunk-harness. L. J. Wilcox. No. 966,631; Aug. 9; Sp. p. 1705; Gaz. vol. 157; p. 291.
Trunk-hasp. C. J. Lysaght. No. 979,777; Dec. 27; Sp. p. 5100; Gaz. vol. 161; p. 888.
Trunk, Hat-. O. Rangnow. No. 947,938; Feb. 1; Sp. p. 340; Gaz. vol. 151; p. 55.
Trunk-protector. E. N. Thain. No. 954,360; Apr. 5; Sp. p. 1410; Gaz. vol. 153; p. 234.
Trunk, Tire-. H. Cohen. No. 953,735; Apr. 5; Sp. p. 109; Gaz. vol. 153; p. 21.
Trunk, Tire-. H. Cohen. No. 953,736; Apr. 5; Sp. p. 110; Gaz. vol. 153; p. 22.
Trunk-trays and the like, Handhold or lift for. T. J. Moore. No. 953,485; Mar. 29; Sp. p. 6256; Gaz. vol. 152; p. 1122.
Trunk, Wardrobe-. O. Rangnow. No. 947,940; Feb. 1; Sp. p. 343; Gaz. vol. 151; p. 55.
Trunk, Wardrobe-. H. Davis. No. 978,436; Dec. 13; Sp. p. 2205; Gaz. vol. 161; p. 382.
Trunks, Sliding leg for. R. C. Bain. No. 949,459; Feb. 15; Sp. p. 3518; Gaz. vol. 151; p. 615.
Truss. F. Makepeace. No. 949,543; Feb. 15; Sp. p. 3699; Gaz. vol. 151; p. 643.
Truss. G. R. Harding. No. 953,691; Apr. 5; Sp. p. 23; Gaz. vol. 153; p. 7.
Truss. T. E. Martin. No. 958,267; May 17; Sp. p. 3948; Gaz. vol. 154; p. 665.
Truss. C. Pence. No. 963,469; July 5; Sp. p. 1014; Gaz. vol. 156; p. 153.
Truss. W. Lange. No. 966,221; Aug. 2; Sp. p. 813; Gaz. vol. 157; p. 129.
Truss. H. G. Ballou. No. 968,728; Aug. 30; Sp. p. 6189; Gaz. vol. 157; p. 1081.
Truss. J. W. Kayser. No. 977,098; Nov. 29; Sp. p. 6679; Gaz. vol. 160; p. 1137.
Truss-bar. P. E. and R. L. Bertin. No. 957,181; May 10; Sp. p. 1466; Gaz. vol. 154; p. 261.
Truss, Hernial. J. W. Bunker. No. 948,305; Feb. 8; Sp. p. 1091; Gaz. vol. 151; p. 201.
Truss, Hernial. J. W. Bunker. No. 948,306; Feb. 8; Sp. p. 1095; Gaz. vol. 151; p. 202.
Truss, Hernial. J. W. Bunker. No. 948,307; Feb. 8; Sp. p. 1100; Gaz. vol. 151; p. 202.
Truss, Hernial. B. F. Lockwood. No. 953,015; Mar. 22; Sp. p. 5221; Gaz. vol. 152; p. 936.
Truss-pad. G. W. Arnold. No. 960,481; June 7; Sp. p. 477; Gaz. vol. 155; p. 80.
Truss pad or cushion. D. O. Fosgate. No. 947,551; Jan. 25; Sp. p. 5692; Gaz. vol. 150; p. 945.
Tub: *See* Bath-tub; Collapsible tub.
Tub waste-pipe, Laundry-. G. S. Winant. No. 963,101; July 5; Sp. p. 172; Gaz. vol. 156; p. 26.
Tubs, &c., Means for attaching feet to. O. H. Marschuetz and W. G. Probst. No. 975,881; Nov. 15; Sp. p. 3975; Gaz. vol. 160; p. 670.
Tube: *See* Collapsible tube; Compressible tube; Cop-tube; Draft-tube; Drainage-tube; Insulating-tube; Mailing-tube; Packing-tube; Paste-tube; Pneumatic tube; Pneumatic-despatch tube; Safety-tube; Telescopic tube; Vacuum-tube; Wick-tube; X-ray tube.
Tube and header connection. J. C. Alexander. No. 973,610; Oct. 25; Sp. p. 4616; Gaz. vol. 159; p. 803.
Tube-bender. G. F. Andres. No. 951,717; Mar. 8; Sp. p. 2520; Gaz. vol. 152; p. 438.
Tube-bending machine. J. F. Gail. No. 957,199; May 10; Sp. p. 1503; Gaz. vol. 154; p. 267.
Tube-bending machine. J. F. Gail. No. 957,200; May 10; Sp. p. 1506; Gaz. vol. 154; p. 268.
Tube-bending machine. R. Kieserling, Sr. No. 977,196; Nov. 29; Sp. p. 6902; Gaz. vol. 160; p. 1172.
Tube-cleaner. E. E. Hauer. No. 945,124; Jan. 4; Sp. p. 238; Gaz. vol. 150; p. 41.
Tube-cleaner. E. E. Hauer. No. 958,118; May 17; Sp. p. 3643; Gaz. vol. 154; p. 614.
Tube-cleaner. T. Andrews. No. 973,740; Oct. 25; Sp. p. 4886; Gaz. vol. 159; p. 849.
Tube-cleaner. P. Dorsey. No. 974,041; Oct. 25; Sp. p. 5511; Gaz. vol. 159; p. 955.
Tube-cleaner for water-tubes in steam-boilers. E. E. Hauer. No. 945,125; Jan. 4; Sp. p. 240; Gaz. vol. 150; p. 41.
Tube-cleaner motor. H. S. Stormer. No. 949,638; Feb. 15; Sp. p. 3876; Gaz. vol. 151; p. 675.
Tube-cleaner, Rotary. R. G. Jamison. No. 973,046; Oct. 18; Sp. p. 3391; Gaz. vol. 159; p. 587.
Tube-cleaning apparatus. A. Morrison. No. 954,002; Apr. 5; Sp. p. 634; Gaz. vol. 153; p. 113.
Tube-cleaning apparatus. C. Robinett and J. P. Reid. No. 977,223; Nov. 29; Sp. p. 6949; Gaz. vol. 160; p. 1181.
Tube-cleaning apparatus. H. E. Weinland. No. 977,241; Nov. 29; Sp. p. 6987; Gaz. vol. 160; p. 1188.
Tube-cleaning apparatus. E. E. Hauer. No. 979,295; Dec. 20; Sp. p. 4084; Gaz. vol. 161; p. 703.
Tube-cleaning tool. C. F. Overly. No. 959,585; May 31; Sp. p. 6843; Gaz. vol. 154; p. 1164.
Tube-covering die. E. Jones. No. 954,030; Apr. 5; Sp. p. 696; Gaz. vol. 153; p. 122.
Tube-cutter. E. C. Heller and A. J. Emrick. No. 956,805; May 3; Sp. p. 654; Gaz. vol. 154; p. 104.
Tube-cutter. W. A. and C. E. Altman. No. 969,507; Sept. 6; Sp. p. 754; Gaz. vol. 158; p. 119.
Tube cutter and expander. F. M. Ashley. No. 949,136; Feb. 15; Sp. p. 2860; Gaz. vol. 151; p. 506.
Tube cutter and reamer. K. Matheus. No. 963,610; July 5; Sp. p. 1302; Gaz. vol. 156; p. 200.
Tube-filling machine. R. M. and C. J. Clark. No. 961,428; June 14; Sp. p. 2435; Gaz. vol. 155; p. 429.
Tube forming and cutting-off machine. C. F. Jenkins. No. 957,966; May 17; Sp. p. 3175; Gaz. vol. 154; p. 560.
Tube-forming machine. T. A. Edison and J. F. Ott. No. 967,178; Aug. 16; Sp. p. 2901; Gaz. vol. 157; p. 503.
Tube-forming machine, Metal-. J. M. Webster. No. 950,163; Feb. 22; Sp. p. 5067; Gaz. vol. 151; p. 889.
Tube-forming machine, Seamless-. C. P. Higgins. No. 961,128; June 14; Sp. p. 1792; Gaz. vol. 155; p. 324.
Tube-forming machine, Seamless-. C. P. Higgins. No. 961,129; June 14; Sp. p. 1793; Gaz. vol. 155; p. 325.
Tube-forming machine, Seamless-. C. P. Higgins. No. 961,130; June 14; Sp. p. 1795; Gaz. vol. 155; p. 325.
Tube-forming machine, Seamless-. C. P. Higgins. No. 961,131; June 14; Sp. p. 1796; Gaz. vol. 155; p. 325.
Tube-forming machine, Seamless-. C. P. Higgins. No. 961,132; June 14; Sp. p. 1797; Gaz. vol. 155; p. 326.
Tube-forming machine, Seamless-. C. P. Higgins. No. 961,133; June 14; Sp. p. 1798; Gaz. vol. 155; p. 326.
Tube holder, Collapsible-. C. P. Clarke. No. 951,101; Mar. 8; Sp. p. 1298; Gaz. vol. 152; p. 238.
Tube-joint. J. Kenny. No. 959,546; May 31; Sp. p. 6762; Gaz. vol. 154; p. 1150.
Tube-lifter. A. N. Russell. No. 967,566; Aug. 16; Sp. p. 3692; Gaz. vol. 157; p. 635.
Tube-making apparatus, Seamless-. M. Altman. No. 961,394; June 14; Sp. p. 2366; Gaz. vol. 155; p. 418.
Tube-making machine. C. F. Jenkins. No. 964,162; July 12; Sp. p. 2484; Gaz. vol. 156; p. 408.
Tube-mill. J. S. Worth. No. 946,303; Jan. 11; Sp. p. 2851; Gaz. vol. 150; p. 473.
Tube-mill. B. L. Morrison. No. 957,436; May 10; Sp. p. 2024; Gaz. vol. 154; p. 351.
Tube-mill cement-feeder. A. E. Sparrow. No. 967,075; Aug. 9; Sp. p. 2682; Gaz. vol. 157; p. 440.
Tube-mill feeder. E. A. Baylis. No. 960,782; June 7; Sp. p. 1101; Gaz. vol. 155; p. 184.
Tube-mill lining. S. S. Osborn. No. 965,730; July 26; Sp. p. 5905; Gaz. vol. 156; p. 1004.
Tube-trimming machine. J. Nazel. No. 946,682; Jan. 18; Sp. p. 3736; Gaz. vol. 150; p. 624.
Tube-winding machinery. A. W. Jenkins. No. 964,107; July 12; Sp. p. 2382; Gaz. vol. 156; p. 391.

Tubes and other articles, Manufacturing composite. A. Böringer. No. 946,325; Jan. 11; Sp. p. 2891; Gaz. vol. 150; p. 480.
Tubes, Apparatus for holding and discharging collapsible. J. T. Barker. No. 971,818; Oct. 4; Sp. p. 638; Gaz. vol. 159; p. 112.
Tubes, Apparatus for making metal-cased. J. W. Earle and A. Bourne. No. 946,022; Jan. 11; Sp. p. 2249; Gaz. vol. 150; p. 374.
Tubes, Blow-out guard for inner. G. C. Younggreen and J. C. Loef. No. 972,976; Oct. 18; Sp. p. 3240; Gaz. vol. 159; p. 563.
Tubes, Discharge-head for collapsible. O. Gerdtzen. No. 975,348; Nov. 8; Sp. p. 2853; Gaz. vol. 160; p. 461.
Tubes from metal strips, Machine for manufacturing. P. Schmale. No. 950,730; Mar. 1; Sp. p. 585; Gaz. vol. 152; p. 121.
Tubes, Key for rolling up collapsible. F. Kinsey. No. 951,132; Mar. 8; Sp. p. 1361; Gaz. vol. 152; p. 247.
Tubes, Machine for inserting nuts or disks in. C. Vallone and F. R. Rogers. No. 970,669; Sept. 20; Sp. p. 3271; Gaz. vol. 158; p. 564.
Tubes, Manufacture of. M. Peters. No. 948,961; Feb. 8; Sp. p. 2476; Gaz. vol. 151; p. 421.
Tubes. Manufacturing seamless. O. Briede. No. 974,744; Nov. 1; Sp. p. 1513; Gaz. vol. 160; p. 232.
Tubes, Mechanical joint for vacuum-. D. M. Moore. No. 961,151; June 14; Sp. p. 1835; Gaz. vol. 155; p. 333.
Tubes or rods, Mechanism for treating metal or other. E. T. Greenfield. No. 947,440; Jan. 25; Sp. p. 5423; Gaz. vol. 150; p. 908.
Tubes or rods, Treating metal and other. E. T. Greenfield. No. 947,439; Jan. 25; Sp. p. 5419; Gaz. vol. 150; p. 908.
Tubes, Seam-lock for. W. H. McNutt. No. 964,048; July 12; Sp. p. 2256; Gaz. vol. 156; p. 371.
Tubing. E. T. Greenfield. No. 966,396; Aug. 2; Sp. p. 1136; Gaz. vol. 157; p. 184.
Tubing. L. Rubes. No. 970,955; Sept. 20; Sp. p. 3870; Gaz. vol. 158; p. 661.
Tubing and casing hook. L. C. Sands. No. 950,641; Mar. 1; Sp. p. 382; Gaz. vol. 152; p. 61.
Tubing and casing spear. C. M. Heeter. No. 956,345; Apr. 26; Sp. p. 5769; Gaz. vol. 153; p. 1003.
Tubing, Apparatus for hoisting. G. W. Oakes. No. 961,420; June 14; Sp. p. 2415; Gaz. vol. 155; p. 427.
Tubing, Flexible metallic. H. Tideman. No. 973,238; Oct. 18; Sp. p. 3826; Gaz. vol. 159; p. 654.
Tubing, Machine for making flexible. F. Wilkie. No. 964,595; July 19; Sp. p. 3429; Gaz. vol. 156; p. 586.
Tubing, Machine for making metal. S. Jackson. No. 953,955; Apr. 5; Sp. p. 532; Gaz. vol. 153; p. 96.
Tubular fabric, Woven. A. Petersen. No. 955,541; Apr. 19; Sp. p. 3970; Gaz. vol. 153; p. 697.
Tubular fabrics, Machine for inverting. W. B. Palmer. No. 952,274; Mar. 15; Sp. p. 3660; Gaz. vol. 152; p. 656.
Tubular ribbed fabric. E. E. Kilbourn. No. 953,669; Mar. 29; Sp. p. 6647; Gaz. vol. 152; p. 1185.
Tufting apparatus. C. H. Fisher. No. 952,189; Mar. 15; Sp. p. 3476; Gaz. vol. 152; p. 626.
Tufting-machine. W. E. Buser. No. 960,073; May 31; Sp. p. 7926; Gaz. vol. 154; p. 1331.
Tufting-machines, Button-support for. W. E. Buser. No. 960,074; May 31; Sp. p. 7928; Gaz. vol. 154; p. 1331.
Tug and buckle. J. Raisbeck. No. 952,357; Mar. 15; Sp. p. 3824; Gaz. vol. 152; p. 683.
Tug attachment. B. I. H. Mitchell. No. 977,530; Dec. 6; Sp. p. 266; Gaz. vol. 161; p. 38.
Tug attachment for harness, Equalizer. H. D. Balcom. No. 961,573; June 14; Sp. p. 2758; Gaz. vol. 155; p. 478.
Tug, Buggy-shaft. W. G. Petree. No. 959,254; May 24; Sp. p. 6150; Gaz. vol. 154; p. 1028.
Tug fastener and detacher. I. Jones. No. 964,648; July 19; Sp. p. 3529; Gaz. vol. 156; p. 603.
Tug, Hame-. F. H. Hewlett. No. 956,090; Apr. 26; Sp. p. 5209; Gaz. vol. 153; p. 916.
Tug, Hame-. A. L. Saddlemire. No. 960,114; May 31; Sp. p. 7997; Gaz. vol. 154; p. 1344.
Tug, Shaft-. F. M. Henshaw. No. 964,477; July 12; Sp. p. 3109; Gaz. vol. 156; p. 511.
Tug, Thill-. W. J. Campbell. No. 948,780; Feb. 8; Sp. p. 2128; Gaz. vol. 151; p. 362.
Tug, Trace-. T. M. Brady. No. 973,255; Oct. 18; Sp. p. 3854; Gaz. vol. 159; p. 659.
Tumbler-holder. W. A. Younie. No. 961,568; June 14; Sp. p. 2751; Gaz. vol. 155; p. 476.
Tumbler-lock, Master-key. J. Roche. No. 950,795; Mar. 1; Sp. p. 725; Gaz. vol. 152; p. 116.
Tumbling-barrel. G. E. Abbott. No. 970,977; Sept. 20; Sp. p. 3911; Gaz. vol. 158; p. 668.
Tumbling-barrel. F. E. Warner. No. 978,524; Dec. 13; Sp. p. 2391; Gaz. vol. 161; p. 412.
Tumbling device. B. E. Sawyer. No. 947,855; Feb. 1; Sp. p. 164; Gaz. vol. 151; p. 27.
Tungsten, &c., Making a plastic mass from compound of. H. Kreusler. No. 956,979; May 3; Sp. p. 1052; Gaz. vol. 154; p. 165.
Tungsten or other hexavalent high-fusing-point metals, Producing powdered. W. Majert. No. 946,551; Jan. 18; Sp. p. 3466; Gaz. vol. 150; p. 582.
Tungsten, Production of fine-metal. E. Thomson. No. 960,441; June 7; Sp. p. 405; Gaz. vol. 155; p. 68.
Tuning device, Electrical. R. H. Marriott. No. 978,604; Dec. 13; Sp. p. 2585; Gaz. vol. 161; p. 441.
Tuning device, Electrical. R. H. Marriott. No. 978,605; Dec. 13; Sp. p. 2592; Gaz. vol. 161; p. 441.
Tuning device, Electrical. R. H. Marriott. No. 978,606; Dec. 13; Sp. p. 2595; Gaz. vol. 161; p. 442.
Tunnel. W. Butler. No. 958,592; May 17; Sp. p. 4740; Gaz. vol. 154; p. 778.
Tunnel concrete timbering. T. H. Stanley. No. 975,084; Nov. 8; Sp. p. 2276; Gaz. vol. 160; p. 372.
Tunnel construction. J. P. Conkling. No. 956,627; May 3; Sp. p. 257; Gaz. vol. 154; p. 43
Tunnel construction. S. J. Sydney. No. 967,264; Aug. 16; Sp. p. 3069; Gaz. vol. 157; p. 532.
Tunnel-form. C. D. McArthur. No. 979,185; Dec. 20; Sp. p. 3849; Gaz. vol. 161; p. 666.
Tunnel-kiln for baking pottery. S. Vincart-Mouzin. No. 969,125; Aug. 30; Sp. p. 6992; Gaz. vol. 157; p. 1216.
Tunnel-segment. F. F. Vandevort. No. 951,667; Mar. 8; Sp. p. 2449; Gaz. vol. 152; p. 423.
Tunnel-support. C. C. Finlayson and J. N. Cain. No. 963,536; July 5; Sp. p. 1154; Gaz. vol. 156; p. 176.
Tunnel-ventilating apparatus. T. H. Johnson. No. 975,248; Nov. 8; Sp. p. 2651; Gaz. vol. 160; p. 428.
Tunnels in the earth, Constructing. G. W. Jackson. No. 960,940; June 7; Sp. p. 1394; Gaz. vol. 155; p. 235.
Tunnels or sewers, Center support or mold for forming. G. F. Dillig. No. 974,778; Nov. 8; Sp. p. 1588; Gaz. vol. 160; p. 267.
Tunnels, Smoke-exhausting device for. P. H. Wedmark. No. 957,396; May 10; Sp. p. 1941; Gaz. vol. 154; p. 336.
Tunnels, Waterproofing. H. A. Carson. No. 970,683; Sept. 20; Sp. p. 3308; Gaz. vol. 158; p. 569.
Tunneling-machine. L. F. Sleade. No. 945,623; Jan. 4; Sp. p. 1314; Gaz. vol. 150; p. 206.
Tunneling-machine. W. Wittich. No. 956,463; Apr. 26; Sp. p. 6017; Gaz. vol. 153; p. 1044.
Tunneling-machine. G. R. Bennett. No. 958,952; May 24; Sp. p. 5519; Gaz. vol. 154; p. 927.
Tunneling-machine. W. R. Collins. No. 973,107; Oct. 18; Sp. p. 3515; Gaz. vol. 159; p. 607.
Tunneling-machine structure. J. P. Karns. No. 957,687; May 10; Sp. p. 2521; Gaz. vol. 154; p. 436.
Tunneling-machines, Cutter-head for. J. P. Karns. No. 977,955; Dec. 6; Sp. p. 1152; Gaz. vol. 161; p. 185.
Turbine. A. Boeckel, O. Grunberg, J. Korwin-Krukovsky, and E. Luxembourg. No. 945,742; Jan. 11; Sp. p. 1622; Gaz. vol. 150; p. 275.
Turbine. W. Robinson. No. 945,807; Jan. 11; Sp. p. 1771; Gaz. vol. 150; p. 297.
Turbine. W. Robinson. No. 945,808; Jan. 11; Sp. p. 1774; Gaz. vol. 150; p. 298.
Turbine. W. Robinson. No. 945,809; Jan. 11; Sp. p. 1777; Gaz. vol. 150; p. 299.
Turbine. W. Robinson. No. 945,810; Jan. 11; Sp. p. 1781; Gaz. vol. 150; p. 299.
Turbine. W. Robinson. No. 945,811; Jan. 11; Sp. p. 1785; Gaz. vol. 150; p. 299.
Turbine. G. A. Boddy. No. 948,916; Feb. 8; Sp. p. 2388; Gaz. vol. 151; p. 406.
Turbine. E. E. Hauer. No. 951,115; Mar. 8; Sp. p. 1319; Gaz. vol. 152; p. 242.
Turbine. H. F. Weinland. No. 951,164; Mar. 8; Sp. p. 1417; Gaz. vol. 152; p. 257.
Turbine. T. S. Kemble. No. 951,373; Mar. 8; Sp. p. 1854; Gaz. vol. 152; p. 324.
Turbine. R. H. Goldsborough. No. 953,013; Mar. 22; Sp. p. 5215; Gaz. vol. 152; p. 935.
Turbine. R. C. Frohlich. No. 957,944; May 17; Sp. p. 3078; Gaz. vol. 154; p. 552.
Turbine. C. A. Parsons. No. 958,430; May 17; Sp. p. 4426; Gaz. vol. 154; p. 724.
Turbine. W. F. Wegner. No. 960,747; June 7; Sp. p. 1025; Gaz. vol. 155; p. 173.
Turbine. B. Ljungström. No. 962,088; June 21; Sp. p. 3859; Gaz. vol. 155; p. 675.
Turbine. J. Brown. No. 967,494; Aug. 16; Sp. p. 3553; Gaz. vol. 157; p. 610.
Turbine. R. Kostanjevic, J. Matzenik, and F. Gessi. No. 969,541; Sept. 6; Sp. p. 838; Gaz. vol. 158; p. 132.
Turbine. P. F. Nydegger. No. 969,974; Sept. 13; Sp. p. 1799; Gaz. vol. 158; p. 306.
Turbine. W. G. Dodd. No. 970,193; Sept. 13; Sp. p. 2239; Gaz. vol. 158; p. 381.
Turbine. G. Westinghouse. No. 972,421; Oct. 11; Sp. p. 1962; Gaz. vol. 159; p. 344.
Turbine. M. Glass. No. 972,762; Oct. 11; Sp. p. 2715; Gaz. vol. 159; p. 462.
Turbine. C. A. Parsons. No. 972,907; Oct. 18; Sp. p. 3068; Gaz. vol. 159; p. 540.
Turbine. G. Engisch. No. 973,929; Oct. 25; Sp. p. 5275; Gaz. vol. 159; p. 915.
Turbine. P. Emden and W. Fritz. No. 974,956; Nov. 8; Sp. p. 2011; Gaz. vol. 160; p. 329.
Turbine. C. W. Wellman. No. 976,109; Nov. 15; Sp. p. 4419; Gaz. vol. 160; p. 749.
Turbine. C. E. Hicks. No. 976,260; Nov. 22; Sp. p. 4829; Gaz. vol. 160; p. 824.

Alphabetical list of inventions—Continued.

Turbine. J. Procner. No. 977,899; Dec. 6; Sp. p. 1039; Gaz. vol. 161; p. 165.
Turbine. T. J. Westerman. No. 979,619; Dec. 27; Sp. p. 4757; Gaz. vol. 161; p. 835.
Turbine. A. W. Bennett. No. 979,735; Dec. 27; Sp. p. 5009; Gaz. vol. 161; p. 874.
Turbine and regulating means therefor. J. P. Nikonow. (Reissue.) No. 13,153; Sept. 20; Sp. p. 3981; Gaz. vol. 158; p. 681.
Turbine-balancing means. C. Roth. No. 954,212; Apr. 5; Sp. p. 1114; Gaz. vol. 153; p. 185.
Turbine-balancing means. E. Thomson. No. 969,734; Sept. 6; Sp. p. 1239; Gaz. vol. 158; p. 199.
Turbine-blade. H. W. Wait. No. 961,328; June 14; Sp. p. 2250; Gaz. vol. 155; p. 397.
Turbine-blade. H. H. Wait. No. 961,329; June 14; Sp. p. 2253; Gaz. vol. 155; p. 397.
Turbine-blade. G. Westinghouse. No. 976,418; Nov. 22; Sp. p. 5174; Gaz. vol. 160; p. 879.
Turbine blade and vane. H. S. Loud and J. Panter. No. 953,016; Mar. 22; Sp. p. 5222; Gaz. vol. 152; p. 936.
Turbine blade and vane. G. Westinghouse. No. 953,568; Mar. 29; Sp. p. 6433; Gaz. vol. 152; p. 1151.
Turbine-blade-fastening means. C. E. Sweet. No. 966,138; Aug. 2; Sp. p. 609; Gaz. vol. 157; p. 100.
Turbine-blade strips, Manufacture of. M. A. Thiel. No. 953,563; Mar. 29; Sp. p. 6424; Gaz. vol. 152; p. 1149.
Turbine-blades, Means for securing. W. H. Eyermann. No. 952,317; Mar. 15; Sp. p. 3743; Gaz. vol. 152; p. 670.
Turbine-blades, Means for securing. P. Emden and W. Fritz. No. 958,239; May 17; Sp. p. 3884; Gaz. vol. 154; p. 656.
Turbine-blades, Shrouding. A. W. Clarke. No. 969,843; Sept. 13; Sp. p. 1526; Gaz. vol. 158; p. 261.
Turbine-blading. L. A. Haines. No. 977,299; Nov. 29; Sp. p. 7092; Gaz. vol. 160; p. 1206.
Turbine-blading. L. A. Haines. No. 977,300; Nov. 29; Sp. p. 7095; Gaz. vol. 160; p. 1207.
Turbine-blading machine. S. Z. de Ferranti. No. 969,260; Sept. 6; Sp. p. 236; Gaz. vol. 158; p. 39.
Turbine-bucket. A. H. Kudlich. No. 974,160; Nov. 1; Sp. p. 105; Gaz. vol. 160; p. 21.
Turbine buckets or vanes, Machine for cutting. S. T. Fonda. No. 973,025; Oct. 18; Sp. p. 3352; Gaz. vol. 159; p. 580.
Turbine, Combined liquid and gas. C. E. Brockhausen. No. 965,085; Aug. 2; Sp. p. 300; Gaz. vol. 157; p. 50.
Turbine, Combustion-. S. Z. de Ferranti. No. 960,160; May 31; Sp. p. 8079; Gaz. vol. 154; p. 1359.
Turbine-controller. H. G. Sahlin. No. 979,802; Dec. 27; Sp. p. 5176; Gaz. vol. 161; p. 897.
Turbine-controlling device. R. N. Ehrhart. No. 963,881; July 12; Sp. p. 1915; Gaz. vol. 156; p. 315.
Turbine-controlling means. H. G. Sahlin. No. 967,444; Aug. 16; Sp. p. 3436; Gaz. vol. 157; p. 593.
Turbine-cylinder lining, Steam-. F. Hodgkinson. No. 945,392; Jan. 4; Sp. p. 841; Gaz. vol. 150; p. 130.
Turbine-cylinder lining, Steam-. F. Hodgkinson. No. 950,330; Feb. 22; Sp. p. 5403; Gaz. vol. 151; p. 948.
Turbine driving auxiliary apparatus. A. H. Kruesi. No. 945,962; Jan. 11; Sp. p. 2133; Gaz. vol. 150; p. 355.
Turbine, Elastic-fluid. F. Hodgkinson. No. 945,391; Jan. 4; Sp. p. 838; Gaz. vol. 150; p. 130.
Turbine, Elastic-fluid. C. G. Curtis. No. 945,919; Jan. 11; Sp. p. 2035; Gaz. vol. 150; p. 339.
Turbine, Elastic-fluid. H. Geisenhöner. No. 945,933; Jan. 11; Sp. p. 2068; Gaz. vol. 150; p. 344.
Turbine, Elastic-fluid. G. Westinghouse. No. 946,749; Jan. 18; Sp. p. 3874; Gaz. vol. 150; p. 647.
Turbine, Elastic-fluid. W. E. Richardson and A. West. No. 949,440; Feb. 15; Sp. p. 3494; Gaz. vol. 151; p. 610.
Turbine, Elastic-fluid. R. N. Ehrhart. No. 952,792; Mar. 22; Sp. p. 4777; Gaz. vol. 152; p. 861.
Turbine, Elastic-fluid. E. Thomson. No. 953,241; Mar. 29; Sp. p. 5730; Gaz. vol. 152; p. 1039.
Turbine, Elastic-fluid. R. N. Ehrhart. No. 953,521; Mar. 29; Sp. p. 6340; Gaz. vol. 152; p. 1136.
Turbine, Elastic-fluid. J. S. Green. No. 953,526; Mar. 29; Sp. p. 6354; Gaz. vol. 152; p. 1138.
Turbine, Elastic-fluid. G. Westinghouse. No. 953,567; Mar. 29; Sp. p. 6430; Gaz. vol. 152; p. 1151.
Turbine, Elastic-fluid. G. Westinghouse. No. 953,674; Mar. 29; Sp. p. 6666; Gaz. vol. 152; p. 1187.
Turbine, Elastic-fluid. E. Thomson. No. 957,915; May 17; Sp. p. 3023; Gaz. vol. 154; p. 542.
Turbine, Elastic-fluid. O. A. Boyer. No. 960,260; June 7; Sp. p. 34; Gaz. vol. 155; p. 9.
Turbine, Elastic-fluid. L. C. Loewenstein and L. H. Dyer. No. 960,357; June 7; Sp. p. 242; Gaz. vol. 155; p. 42.
Turbine, Elastic-fluid. G. Belluzzo. No. 961,067; June 7; Sp. p. 1663; Gaz. vol. 155; p. 278.
Turbine, Elastic-fluid. R. F. Halliwell. No. 963,142; July 5; Sp. p. 300; Gaz. vol. 156; p. 41.
Turbine, Elastic-fluid. R. H. Rice. No. 963,178; July 5; Sp. p. 381; Gaz. vol. 156; p. 54.
Turbine, Elastic-fluid. R. N. Ehrhart. No. 968,839; Aug. 30; Sp. p. 6405; Gaz. vol. 157; p. 1117.
Turbine, Elastic-fluid. R. N. Ehrhart. No. 968,840; Aug. 30; Sp. p. 6409; Gaz. vol. 157; p. 1117.
Turbine, Elastic-fluid. C. G. Curtis. No. 969,606; Sept. 6; Sp. p. 977; Gaz. vol. 158; p. 155.
Turbine, Elastic-fluid. W. J. A. London. No. 969,891; Sept. 13; Sp. p. 1616; Gaz. vol. 158; p. 279.
Turbine, Elastic-fluid. C. R. Waller. No. 971,092; Sept. 27; Sp. p. 4163; Gaz. vol. 158; p. 735.
Turbine, Elastic-fluid. W. J. A. London. No. 972,788; Oct. 11; Sp. p. 2763; Gaz. vol. 159; p. 470.
Turbine, Elastic-fluid. C. A. Backstrom. No. 974,457; Nov. 1; Sp. p. 882; Gaz. vol. 160; p. 130.
Turbine, Elastic-fluid. C. W. Dake. No. 977,601; Dec. 6; Sp. p. 431; Gaz. vol. 161; p. 63.
Turbine emergency governing mechanism. F. R. C. Boyd. No. 960,259; June 7; Sp. p. 30; Gaz. vol. 155; p. 9.
Turbine emergency governing mechanism. E. F. Dutton. No. 960,289; June 7; Sp. p. 98; Gaz. vol. 155; p. 20.
Turbine-engine. W. Fennell. No. 954,946; Apr. 12; Sp. p. 2738; Gaz. vol. 153; p. 464.
Turbine engine, Gas-. W. A. Reed. No. 972,642; Oct. 11; Sp. p. 2476; Gaz. vol. 159; p. 421.
Turbine engine, Steam-. E. F. Edgar. No. 952,791; Mar. 22; Sp. p. 4775; Gaz. vol. 152; p. 860.
Turbine, Fluid-pressure. C. Regenbogen. No. 953,552; Mar. 29; Sp. p. 6397; Gaz. vol. 152; p. 1146.
Turbine, Fluid-pressure. C. A. Parsons. No. 972,908; Oct. 18; Sp. p. 3077; Gaz. vol. 159; p. 540.
Turbine for driving boiler-tube cleaners. H. F. and H. G. Weinland. No. 978,089; Dec. 6; Sp. p. 1436; Gaz. vol. 161; p. 232.
Turbine, Gas-. L. Samoje. No. 966,363; Aug. 2; Sp. p. 1080; Gaz. vol. 157; p. 173.
Turbine, Gas-. S. A. Moss. No. 969,760; Sept. 6; Sp. p. 1304; Gaz. vol. 158; p. 209.
Turbine, Gas-. E. A. Forsberg and B. Ljungström. No. 970,204; Sept. 13; Sp. p. 2277; Gaz. vol. 158; p. 385.
Turbine-governing mechanism. O. Junggren. No. 953,272; Mar. 29; Sp. p. 5793; Gaz. vol. 152; p. 1048.
Turbine-governing mechanism. E. E. Arnold. No. 954,011; Apr. 5; Sp. p. 647; Gaz. vol. 153; p. 116.
Turbine-governing mechanism. R. H. Rice. No. 957,902; May 17; Sp. p. 2974; Gaz. vol. 154; p. 538.
Turbine-governing mechanism. F. Samuelson. No. 963,074; July 5; Sp. p. 96; Gaz. vol. 156; p. 18.
Turbine-governing mechanism. C. H. Worsey. No. 963,107; July 5; Sp. p. 220; Gaz. vol. 156; p. 29.
Turbine-governing mechanism. A. S. Anderson. No. 963,110; July 5; Sp. p. 226; Gaz. vol. 156; p. 29.
Turbine-governing mechanism. R. H. Rice. No. 969,726; Sept. 6; Sp. p. 1213; Gaz. vol. 158; p. 196.
Turbine-governing mechanism, Elastic-fluid-. J. G. Callan. No. 951,301; Mar. 8; Sp. p. 1699; Gaz. vol. 152; p. 301.
Turbine-governing mechanism, Elastic-fluid-. R. H. Rice. No. 951,337; Mar. 8; Sp. p. 1773; Gaz. vol. 152; p. 312.
Turbine-governing mechanism, Elastic-fluid-. W. Kieser. No. 957,888; May 17; Sp. p. 2944; Gaz. vol. 154; p. 533.
Turbine-governing mechanism, Elastic-fluid-. W. Kieser. No. 957,889; May 17; Sp. p. 2949; Gaz. vol. 154; p. 533.
Turbine-governing mechanism, Elastic-fluid-. P. Olivier. No. 957,898; May 17; Sp. p. 2966; Gaz. vol. 154; p. 536.
Turbine-governing mechanism, Elastic-fluid-. F. Samuelson. No. 963,811; July 12; Sp. p. 1752; Gaz. vol. 156; p. 290.
Turbine-governor. F. W. Bentley. No. 974,113; Nov. 1; Sp. p. 16; Gaz. vol. 160; p. 5.
Turbine, Low-pressure steam-. J. F. M. Patitz. No. 961,086; June 7; Sp. p. 1715; Gaz. vol. 155; p. 285.
Turbine-motor. T. J. Loftus. No. 977,107; Nov. 29; Sp. p. 6697; Gaz. vol. 160; p. 1140.
Turbine-motor and pressure device. T. J. Loftus. No. 978,044; Dec. 6; Sp. p. 1339; Gaz. vol. 161; p. 215.
Turbine, Multistage. F. Hodgkinson. No. 957,338; May 10; Sp. p. 1824; Gaz. vol. 154; p. 318.
Turbine-nozzle. T. Broadbent. No. 973,472; Oct. 25; Sp. p. 4317; Gaz. vol. 159; p. 757.
Turbine-nozzle. T. Bell. No. 974,108; Nov. 1; Sp. p. 2; Gaz. vol. 160; p. 3.
Turbine or centrifugal pump. H. Lorenz. No. 963,378; July 5; Sp. p. 829; Gaz. vol. 156; p. 123.
Turbine parts, Heating. C. A. Parsons. No. 966,588; Aug. 9; Sp. p. 1625; Gaz. vol. 157; p. 277.
Turbine, Power-. J. Knight. No. 955,648; Apr. 19; Sp. p. 4231; Gaz. vol. 153; p. 733.
Turbine, Radial-flow steam-. W. H. Eyermann. No. 952,318; Mar. 15; Sp. p. 3745; Gaz. vol. 152; p. 671.
Turbine, Reaction-. J. F. M. Patitz. No. 961,087; June 7; Sp. p. 1716; Gaz. vol. 155; p. 285.
Turbine, Reëntrant. G. Westinghouse. No. 969,821; Sept. 13; Sp. p. 1470; Gaz. vol. 158; p. 254.
Turbine, Reversible. R. Cramp. No. 971,730; Oct. 4; Sp. p. 467; Gaz. vol. 159; p. 80.
Turbine, Reversible steam-. F. C. Beyerle. No. 961,205; June 14; Sp. p. 1953; Gaz. vol. 155; p. 353.
Turbine-rotor. O. D. H. Bentley. No. 966,157; Aug. 2; Sp. p. 684; Gaz. vol. 157; p. 107.
Turbine shafts, Packing for elastic-fluid-. O. Junggren. No. 957,887; May 17; Sp. p. 2942; Gaz. vol. 154; p. 533.
Turbine, Steam-. W. E. Seelye. No. 947,355; Jan. 25; Sp. p. 5229; Gaz. vol. 150; p. 881.
Turbine, Steam-. W. Kilmer. No. 948,176; Feb. 1; Sp. p. 803; Gaz. vol. 151; p. 133.
Turbine, Steam-. J. Melville. No. 956,124; Apr. 26; Sp. p. 5281; Gaz. vol. 153; p. 928.

Turbine, Steam-. T. Falvey. No. 957,151; May 3; Sp. p. 1379; Gaz. vol. 154; p. 221.
Turbine, Steam-. I. Oesterblom. No. 963,927; July 12; Sp. p. 1998; Gaz. vol. 156; p. 329.
Turbine, Steam-. R. Schlatter. No. 965,412; July 26; Sp. p. 5202; Gaz. vol. 156; p. 892.
Turbine, Steam-. A. A. Holle. No. 967,639; Aug. 16; Sp. p. 3836; Gaz. vol. 157; p. 659.
Turbine, Steam-. J. Procner. No. 968,262; Aug. 23; Sp. p. 5177; Gaz. vol. 157; p. 892.
Turbine, Steam-. H. Peters. No. 970,106; Sept. 13; Sp. p. 2069; Gaz. vol. 158; p. 352.
Turbine, Steam-. J. F. M. Patitz. No. 971,555; Oct. 4; Sp. p. 97; Gaz. vol. 159; p. 19.
Turbine, Steam-. T. R. Morgan, A. L. Atwater, B. A. Crowther, and W. M. Ash. No. 971,918; Oct. 4; Sp. p. 875; Gaz. vol. 159; p. 150.
Turbine, Steam-. H. R. Lee. No. 979,077; Dec. 26; Sp. p. 3573; Gaz. vol. 161; p. 625.
Turbine vane and wheel. D. Kemble. No. 974,496; Nov. 1; Sp. p. 970; Gaz. vol. 160; p. 144.
Turbine vanes or buckets, Machine for cutting. H. Geisenhöner. No. 972,848; Oct. 18; Sp. p. 2907; Gaz. vol. 159; p. 517.
Turbine, Water-. E. A. Nilsen. No. 958,670; May 17; Sp. p. 4891; Gaz. vol. 154; p. 803.
Turbine, Water-. T. B. Lee. No. 962,364; June 21; Sp. p. 4454; Gaz. vol. 155; p. 768.
Turbine, Wind-. J. G. Childs. No. 963,359; July 5; Sp. p. 792; Gaz. vol. 156; p. 117.
Turbines and generators, Framework for. J. P. Nikonow. No. 953,487; Mar. 29; Sp. p. 6261; Gaz. vol. 152; p. 1123.
Turbines and pumps, Means for balancing. W. H. Eyermann. No. 958,612; May 17; Sp. p. 4781; Gaz. vol. 154; p. 785.
Turbines, Blading for elastic-fluid. J. S. Green. No. 950,803; Mar. 1; Sp. p. 741; Gaz. vol. 152; p. 118.
Turbines, Blading for elastic-fluid. J. S. Green. No. 950,804; Mar. 1; Sp. p. 743; Gaz. vol. 152; p. 118.
Turbines, End-thrust apparatus for fluid-pressure. F. Hodgkinson. No. 953,530; Mar. 29; Sp. p. 6361; Gaz. vol. 152; p. 1139.
Turbines, Governing mechanism for mixed-pressure. F. Samuelson. No. 973,705; Oct. 25; Sp. p. 4815; Gaz. vol. 159; p. 837.
Turbines, Leakage-reducing means for. F. R. C. Boyd. No. 969,517; Sept. 6; Sp. p. 776; Gaz. vol. 158; p. 122.
Turbines, Nozzle for elastic-fluid. G. E. Stevens. No. 951,346; Mar. 8; Sp. p. 1797; Gaz. vol. 152; p. 316.
Turbines, Rotating baffling device for gas-. B. Ljungström. No. 945,180; Jan. 4; Sp. p. 355; Gaz. vol. 150; p. 60.
Turbines, System of lubrication of elastic-fluid. O. Junggren. No. 963,154; July 5; Sp. p. 328; Gaz. vol. 156; p. 46.
Turbines, turbo-pumps, &c., Manufacture of strip material suitable for the blades of. S. Z. de Ferranti. No. 960,161; May 31; Sp. p. 8081; Gaz. vol. 154; p. 1359.
Turbines, Vane-ring for. B. Ljungström. No. 968,862; Aug. 30; Sp. p. 6454; Gaz. vol. 157; p. 1124.
Turbo-generator construction. C. H. Smoot. No. 967,254; Aug. 16; Sp. p. 3054; Gaz. vol. 157; p. 529.
Turbo-generator, Direct-current. E. C. Wright. No. 957,290; May 10; Sp. p. 1722; Gaz. vol. 154; p. 301.
Turbo unipolar generator. O. Schulz. No. 958,681; May 17; Sp. p. 4911; Gaz. vol. 154; p. 806.
Turn-table. H. R. Stickney. No. 948,352; Feb. 8; Sp. p. 1192; Gaz. vol. 151; p. 218.
Turn-table. L. J. Sleph. No. 967,581; Aug. 16; Sp. p. 3726; Gaz. vol. 157; p. 641.
Turn-table. J. M. Baker. No. 968,229; Aug. 23; Sp. p. 5108; Gaz. vol. 157; p. 880.
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Turn-table. G. A. Bronder. No. 971,115; Sept. 27; Sp. p. 4202; Gaz. vol. 158; p. 742.
Turn-table. A. O. Slentz. No. 971,796; Oct. 4; Sp. p. 595; Gaz. vol. 159; p. 104.
Turn-table. D. Tipton. No. 977,983; Dec. 6; Sp. p. 1214; Gaz. vol. 161; p. 195.
Turn-table, Automobile-transfer. M. A. Baker. No. 968,230; Aug. 23; Sp. p. 5110; Gaz. vol. 157; p. 880.
Turn-table center. R. Khuen and A. Reichmann. No. 945,723; Jan. 4; Sp. p. 1553; Gaz. vol. 150; p. 240.
Turn-tables, Electric collector for. L. E. Jones. No. 977,653; Dec. 6; Sp. p. 528; Gaz. vol. 161; p. 80.
Turner. J. A. Sweeting. No. 967,263; Aug. 16; Sp. p. 3068; Gaz. vol. 157; p. 531.
Turning irregular forms, Machine for. M. J. O'Donnell and F. Hanses. No. 950,158; Feb. 22; Sp. p. 5053; Gaz. vol. 151; p. 887.
Turning irregular forms, Machine for. A. Lehmann. No. 963,594; July 5; Sp. p. 1270; Gaz. vol. 156; p. 195.
Turning irregular forms, Machine for. H. F. Loewer. No. 963,601; July 5; Sp. p. 1285; Gaz. vol. 156; p. 197.
Turning irregular forms, Machine for. C. W. Stevens. No. 964,327; July 12; Sp. p. 2816; Gaz. vol. 156; p. 465.
Turning machine, Channel-lip-. W. H. Hooper. No. 947,509; Jan. 25; Sp. p. 5611; Gaz. vol. 150; p. 932.
Turning-machine head. W. S. Hawker. No. 949,765; Feb. 22; Sp. p. 4148; Gaz. vol. 151; p. 750.
Turning mechanism. Z. B. Coes, R. F. Scott, and C. H. Thumlert. No. 962,197; June 21; Sp. p. 4114; Gaz. vol. 155; p. 714.
Turning poles, Grappling implement for. J. C. Shelton and H. G. Brown. No. 951,341; Mar. 8; Sp. p. 1788; Gaz. vol. 152; p. 314.
Turnbuckle, Locking-. W. H. Andrews. No. 950,424; Feb. 22; Sp. p. 5578; Gaz. vol. 151; p. 977.
Turnbuckle or coupling. W. E. Brock. No. 946,594; Jan. 18; Sp. p. 3538; Gaz. vol. 150; p. 596.
Turnstile. W. E. Stratton. No. 949,384; Feb. 15; Sp. p. 3385; Gaz. vol. 151; p. 591.
Turnstile. H. A. Gordon. No. 954,182; Apr. 5; Sp. p. 1030; Gaz. vol. 153; p. 175.
Turnstile. O. W. Brenizer. No. 967,167; Aug. 16; Sp. p. 2879; Gaz. vol. 157; p. 498.
Turnstile registering device. J. E. Allison. No. 954,846; Apr. 12; Sp. p. 2523; Gaz. vol. 153; p. 430.
Turntable, Automatic. C. W. Hillenbrand. No. 964,514; July 19; Sp. p. 3221; Gaz. vol. 156; p. 557.
Turpentine and rosin, Extracting. B. F. A. Saylor. No. 945,612; Jan. 4; Sp. p. 1294; Gaz. vol. 150; p. 202.
Turpentine and rosin from resinous woods, Apparatus for extracting. H. T. Yaryan. No. 964,728; July 19; Sp. p. 3802; Gaz. vol. 156; p. 632.
Turpentine-cup. E. A. McKoy. No. 956,403; Apr. 26; Sp. p. 5886; Gaz. vol. 153; p. 1023.
Turpentine-cup. G. C. Pringle. No. 963,065; July 5; Sp. p. 75; Gaz. vol. 156; p. 15.
Turpentine-cup support. G. C. Pringle. No. 963,066; July 5; Sp. p. 78; Gaz. vol. 156; p. 15.
Turpentine-cups, Dipper for. F. Bailey. No. 969,765; Sept. 13; Sp. p. 1330; Gaz. vol. 158; p. 235.
Turpentine-separator. D. B. Sphaler and B. F. Bryan. No. 974,717; Nov. 1; Sp. p. 1450; Gaz. vol. 160; p. 224.
Turret-machine. A. W. Wigglesworth. No. 969,433; Sept. 6; Sp. p. 596; Gaz. vol. 158; p. 95.
Tweezers. E. C. Wells. No. 950,499; Mar. 1; Sp. p. 86; Gaz. vol. 152; p. 14.
Tweezers. M. Engelsman. No. 955,955; Apr. 26; Sp. p. 4912; Gaz. vol. 153; p. 868.
Tweezers. C. F. Phesay. No. 964,181; July 12; Sp. p. 2518; Gaz. vol. 156; p. 414.
Tweezers. A. S. Knapp. No. 964,526; July 19; Sp. p. 3255; Gaz. vol. 156; p. 561.
Tweezers. E. A. Straub. No. 977,341; Nov. 29; Sp. p. 7182; Gaz. vol. 160; p. 1221.
Tweezers. C. J. Prankard, Jr. No. 979,697; Dec. 27; Sp. p. 4912; Gaz. vol. 161; p. 861.
Twine-carrier. G. A. Schmid. No. 949,963; Feb. 22; Sp. p. 4596; Gaz. vol. 151; p. 820.
Twine-carrier. C. M. Bartlett. No. 951,587; Mar. 8; Sp. p. 2280; Gaz. vol. 152; p. 395.
Twine, cord, and the like ball. C. Berry. No. 963,114; July 5; Sp. p. 236; Gaz. vol. 156; p. 31.
Twine-cutter. G. H. Colebeck. No. 946,494; Jan. 11; Sp. p. 3345; Gaz. vol. 150; p. 537.
Twine-cutter. H. I. Mattson. No. 948,898; Feb. 8; Sp. p. 2361; Gaz. vol. 151; p. 401.
Twine-cutter. O. C. Arnold. No. 967,303; Aug. 16; Sp. p. 3146; Gaz. vol. 157; p. 544.
Twine-dispensing device. L. H. Houston. No. 956,640; May 3; Sp. p. 285; Gaz. vol. 154; p. 47.
Twine-finishing machine. H. Cardwell. No. 955,943; Apr. 26; Sp. p. 4880; Gaz. vol. 153; p. 863.
Twine-holder. J. W. Morris. No. 953,280; Mar. 29; Sp. p. 5811; Gaz. vol. 152; p. 1051.
Twine-holder. C. E. Layman. No. 957,568; May 10; Sp. p. 2280; Gaz. vol. 154; p. 395.
Twine-holder. L. B. Shook. No. 961,032; June 7; Sp. p. 1593; Gaz. vol. 155; p. 267.
Twine-holder. F. B. Shuman. No. 962,791; June 28; Sp. p. 5399; Gaz. vol. 155; p. 942.
Twine-holder. C. M. Maisel. No. 966,758; Aug. 9; Sp. p. 2017; Gaz. vol. 157; p. 335.
Twine-holder. B. C. Algie. No. 966,981; Aug. 9; Sp. p. 2478; Gaz. vol. 157; p. 407.
Twine-holder. J. W. Morris. No. 978,050; Dec. 6; Sp. p. 1350; Gaz. vol. 161; p. 217.
Twine, Machine for making grass. K. Wessel. No. 945,653; Jan. 4; Sp. p. 1387; Gaz. vol. 150; p. 216.
Twine machine, Grass-. L. J. Monahan. No. 956,539; May 3; Sp. p. 61; Gaz. vol. 154; p. 13.
Twine-making machine, Grass-. E. W. Goodrick. No. 951,390; Mar. 8; Sp. p. 1889; Gaz. vol. 152; p. 330.
Twine-making machine, Grass-. E. W. Goodrick. No. 951,391; Mar. 8; Sp. p. 1892; Gaz. vol. 152; p. 330.
Twine-tension device. S. E. Ingalls. No. 953,270; Mar. 29; Sp. p. 5791; Gaz. vol. 152; p. 1047.
Twist-drill. J. Wing and B. O'Reilly. No. 953,883; Apr. 5; Sp. p. 396; Gaz. vol. 153; p. 72.
Twisting and cabling yarns, Means for. J. D. Whyte. No. 968,723; Aug. 30; Sp. p. 6174; Gaz. vol. 157; p. 1079.
Two-cycle engine. C. B. Page. No. 956,993; May 3; Sp. p. 1074; Gaz. vol. 154; p. 168.
Twyer, Blast-furnace. R. W. McGarvey. No. 967,416; Aug. 16; Sp. p. 3392; Gaz. vol. 157; p. 585.
Twyer furnace, Continuous-. C. W. Munson. No. 972,126; Oct. 4; Sp. p. 1326; Gaz. vol. 159; p. 223.

Alphabetical list of inventions—Continued.

Twyer-iron. J. Kolstrom. No. 961,451; June 14; Sp. p. 2488; Gaz. vol. 155; p. 437.
Twyer, Oil-burning. J. Pickles. No. 966,704; Aug. 9; Sp. p. 1845; Gaz. vol. 157; p. 316.
Twyer-stock. A. G. McKee. No. 979,187; Dec. 20; Sp. p. 3854; Gaz. vol. 161; p. 666.
Type alining and supporting means. A. G. Hyde and R. P. Link. No. 978,754; Dec. 13; Sp. p. 2892; Gaz. vol. 161; p. 490.
Type and other machines, Driving or transmission mechanism for. J. S. Bancroft and M. C. Indahl. No. 962,408; June 28; Sp. p. 4544; Gaz. vol. 155; p. 807.
Type and type-bars, Making. F. H. Richards. No. 958,436; May 17; Sp. p. 4444; Gaz. vol. 154; p. 726.
Type and type-bars, Mechanism for making. F. H. Richards. No. 976,920; Nov. 29; Sp. p. 6256; Gaz. vol. 160; p. 1075.
Type-arranging device. A. Hoberg. No. 968,766; Aug. 30; Sp. p. 6262; Gaz. vol. 157; p. 1094.
Type-bar. F. H. Richards. No. 958,435; May 17; Sp. p. 4443; Gaz. vol. 154; p. 726.
Type-bar and typographic form. F. H. Richards. No. 952,579; Mar. 22; Sp. p. 4300; Gaz. vol. 152; p. 787.
Type-bar and typographic form. F. H. Richards. No. 952,639; Mar. 22; Sp. p. 4444; Gaz. vol. 152; p. 810.
Type-bar and typographic form. F. H. Richards. No. 962,857; June 28; Sp. p. 5514; Gaz. vol. 155; p. 965.
Type-bar bearing. M. Zepeda. No. 971,653; Oct. 4; Sp. p. 299; Gaz. vol. 159; p. 53.
Type-bar-forming machine. F. H. Richards. No. 947,005; Jan. 18; Sp. p. 4461; Gaz. vol. 150; p. 735.
Type-bar-making machine. F. H. Richards. No. 947,006; Jan. 18; Sp. p. 4471; Gaz. vol. 150; p. 735.
Type-bar-producing mechanism. F. H. Richards. No. 947,761; Jan. 25; Sp. p. 6087; Gaz. vol. 150; p. 1015.
Type-bars, Machine for making. F. H. Richards. No. 946,866; Jan. 18; Sp. p. 4168; Gaz. vol. 150; p. 688.
Type-bars, Manufacture of. F. H. Richards. No. 946,867; Jan. 18; Sp. p. 4179; Gaz. vol. 150; p. 689.
Type-bars, Manufacturing. F. H. Richards. No. 947,760; Jan. 25; Sp. p. 6082; Gaz. vol. 150; p. 1015.
Type-bars, Producing. F. H. Richards. No. 947,350; Jan. 25; Sp. p. 5220; Gaz. vol. 150; p. 880.
Type-base, Rubber. H. S. Folger. No. 975,344; Nov. 8; Sp. p. 2847; Gaz. vol. 160; p. 460.
Type-carrier. W. Chipperfield. No. 955,849; Apr. 26; Sp. p. 4668; Gaz. vol. 153; p. 831.
Type-case, Supplementary. M. A. Stern. No. 977,339; Nov. 29; Sp. p. 7179; Gaz. vol. 160; p. 1221.
Type casting and composing machine. W. Nicholas and W. Ackerman. No. 964,677; July 19; Sp. p. 3588; Gaz. vol. 156; p. 614.
Type casting and composing machine. W. Nicholas and W. Ackerman. No. 964,679; July 19; Sp. p. 3673; Gaz. vol. 156; p. 615.
Type casting and composing machine. R. P. Link and A. C. Morgan. No. 979,864; Dec. 27; Sp. p. 5307; Gaz. vol. 161; p. 918.
Type casting and composing machines, Letter-spacing mechanism for. F. H. Pierpont. No. 952,633; Mar. 22; Sp. p. 4429; Gaz. vol. 152; p. 808.
Type casting and setting machine. T. Dropiowski. No. 947,175; Jan. 18; Sp. p. 4777; Gaz. vol. 150; p. 788.
Type casting and setting machine, Individual-. J. C. Fowler. No. 958,738; May 24; Sp. p. 5029; Gaz. vol. 154; p. 852.
Type casting and tubing machine. E. H. Frey. No. 965,448; July 26; Sp. p. 5290; Gaz. vol. 156; p. 905.
Type-casting machine. W. N. Clements. No. 948,605; Feb. 8; Sp. p. 1746; Gaz. vol. 151; p. 302.
Type-casting machine. O. V. Sigurdsson. No. 960,047; May 31; Sp. p. 7876; Gaz. vol. 154; p. 1323.
Type-casting machine. A. E. Miller. No. 963,790; July 12; Sp. p. 1693; Gaz. vol. 156; p. 284.
Type-casting machine. A. E. Miller. No. 968,383; Aug. 23; Sp. p. 5419; Gaz. vol. 157; p. 935.
Type-casting-machine attachment. A. W. Hamaker. No. 971,040; Sept. 27; Sp. p. 4055; Gaz. vol. 158; p. 718.
Type-casting-machine mold, Automatic. H. H. Hardinge. No. 954,028; Apr. 5; Sp. p. 691; Gaz. vol. 153; p. 121.
Type-cleaner. A. C. Bishop. No. 955,939; Apr. 26; Sp. p. 4872; Gaz. vol. 153; p. 862.
Type-composing machine. W. Nicholas and W. Ackerman. No. 964,678; July 19; Sp. p. 3643; Gaz. vol. 156; p. 614.
Type-distributing apparatus. L. K. Johnson and A. A. Low. No. 946,443; Jan. 11; Sp. p. 3236; Gaz. vol. 150; p. 520.
Type-distributing apparatus. R. Dacheux. No. 958,600; May 17; Sp. p. 4758; Gaz. vol. 154; p. 781.
Type-distributing machine. E. A. Adcock. No. 966,979; Aug. 9; Sp. p. 2468; Gaz. vol. 157; p. 407.
Type for type-writing machines, Manufacturing. W. R. Fox. No. 966,188; Aug. 2; Sp. p. 745; Gaz. vol. 157; p. 118.
Type-forms, Retaining-slug for printers'. J. Stivers. No. 964,328; July 12; Sp. p. 2821; Gaz. vol. 156; p. 465.
Type-holder. J. S. Duncan. No. 956,692; May 3; Sp. p. 425; Gaz. vol. 154; p. 67.
Type-holder. H. Higgin. No. 962,146; June 21; Sp. p. 4010; Gaz. vol. 155; p. 696.
Type-holder. H. Schmidt. No. 965,413; July 26; Sp. p. 5202; Gaz. vol. 156; p. 893.
Type holder or clamp. O. M. Howard. No. 955,802; Apr. 19; Sp. p. 4546; Gaz. vol. 153; p. 785.
Type holder, Rubber-. H. S. Folger. No. 963,365; July 5; Sp. p. 804; Gaz. vol. 156; p. 118.
Type into classes for distribution, Apparatus for separating. D. B. Ray. No. 965,939; Aug. 2; Sp. p. 187; Gaz. vol. 157; p. 33.
Type-machines, Low-quad mold for. J. S. Bancroft and M. C. Indahl. No. 962,411; June 28; Sp. p. 4566; Gaz. vol. 155; p. 809.
Type-machines, Mold and operating mechanism for. E. S. Dunavant. No. 959,323; May 24; Sp. p. 6280; Gaz. vol. 154; p. 1051.
Type-matrices, Driving-press for. J. S. Bancroft and M. C. Indahl. No. 962,409; June 28; Sp. p. 4551; Gaz. vol. 155; p. 808.
Type-measuring device. A. H. Halloran. No. 972,528; Oct. 11; Sp. p. 2210; Gaz. vol. 159; p. 381.
Type-mold. J. S. Bancroft and A. L. Knight. No. 952,666; Mar. 22; Sp. p. 4498; Gaz. vol. 152; p. 818.
Type-mold, Adjustable hand. A. S. Taylor. No. 979,222; Dec. 20; Sp. p. 3935; Gaz. vol. 161; p. 679.
Type-mold body-blocks, Providing nick projections on. H. H. Hardinge. No. 973,191; Oct. 18; Sp. p. 3736; Gaz. vol. 159; p. 638.
Type-mold, Low-quad. J. S. Bancroft and M. C. Indahl. No. 962,410; June 28; Sp. p. 4563; Gaz. vol. 155; p. 808.
Type-molds, Forming, attaching, and positioning nick-pins in. J. S. Bancroft and A. L. Knight. No. 952,598; Mar. 22; Sp. p. 4352; Gaz. vol. 152; p. 795.
Type, Printing-. H. J. Smith. No. 959,968; May 31; Sp. p. 7680; Gaz. vol. 154; p. 1294.
Type-scale. W. W. Greenwood. No. 975,689; Nov. 15; Sp. p. 3591; Gaz. vol. 160; p. 605.
Type setting and casting machine. H. Degener. No. 948,291; Feb. 1; Sp. p. 1050; Gaz. vol. 151; p. 172.
Type setting and distributing machine. J. S. Duncan. No. 963,692; July 5; Sp. p. 1458; Gaz. vol. 156; p. 228.
Type setting and distributing machine. W. M. Kelly. No. 978,456; Dec. 13; Sp. p. 2240; Gaz. vol. 161; p. 388.
Type-setting apparatus. L. K. Johnson. No. 960,096; May 31; Sp. p. 7966; Gaz. vol. 154; p. 1338.
Type-setting case. J. S. Duncan. No. 956,691; May 3; Sp. p. 422; Gaz. vol. 154; p. 67.
Type-setting machine. H. M. Freck. No. 945,777; Jan. 11; Sp. p. 1709; Gaz. vol. 150; p. 287.
Type-setting machine. J. B. Odell. No. 946,768; Jan. 18; Sp. p. 3919; Gaz. vol. 150; p. 653.
Type-setting machine. H. Drewell. No. 970,694; Sept. 20; Sp. p. 3328; Gaz. vol. 158; p. 572.
Type-setting machine. E. A. Adcock. No. 975,194; Nov. 8; Sp. p. 2543; Gaz. vol. 160; p. 410.
Type-setting machine for various sizes of type. C. A. Albrecht and L. Leidenberg. No. 961,742; June 14; Sp. p. 3097; Gaz. vol. 155; p. 535.
Type-setting machines, Machine for perforating bands of. H. Drewell. No. 954,023; Apr. 5; Sp. p. 676; Gaz. vol. 153; p. 119.
Type-writer. B. L. Cary, (now by marriage B. L. Bloodworth.) No. 948,952; Feb. 8; Sp. p. 2453; Gaz. vol. 151; p. 418.
Type-writer. J. L. McClintock. No. 952,543; Mar. 22; Sp. p. 4224; Gaz. vol. 152; p. 775.
Type-writer. E. M. Waring. No. 953,875; Apr. 5; Sp. p. 382; Gaz. vol. 153; p. 69.
Type-writer. J. W. Paul. No. 954,581; Apr. 12; Sp. p. 1885; Gaz. vol. 153; p. 336.
Type-writer. W. A. McCool. No. 964,045; July 12; Sp. p. 2241; Gaz. vol. 156; p. 370.
Type-writer. J. W. Paul. No. 971,469; Sept. 27; Sp. p. 4893; Gaz. vol. 158; p. 857.
Type-writer. C. S. Du Belle. No. 972,832; Oct. 18; Sp. p. 2870; Gaz. vol. 159; p. 511.
Type-writer. J. B. Martin. No. 974,164; Nov. 1; Sp. p. 114; Gaz. vol. 160; p. 22.
Type-writer. R. Toepper. No. 974,210; Nov. 1; Sp. p. 243; Gaz. vol. 160; p. 40.
Type-writer, Adding. F. A. Hart. No. 961,073; June 7; Sp. p. 1678; Gaz. vol. 155; p. 281.
Type-writer and similar ribbons, Machine for inking and reinking. D. N. Lennox. No. 977,661; Dec. 6; Sp. p. 545; Gaz. vol. 161; p. 83.
Type-writer attachment. D. F. Maher. No. 946,451; Jan. 11; Sp. p. 3253; Gaz. vol. 150; p. 523.
Type-writer attachment. O. V. Schauer. No. 954,470; Apr. 12; Sp. p. 1651; Gaz. vol. 153; p. 299.
Type-writer attachment. L. E. Baltzley. No. 956,266; Apr. 26; Sp. p. 5601; Gaz. vol. 153; p. 977.
Type-writer attachment. T. M. Morgan. No. 959,024; May 24; Sp. p. 5660; Gaz. vol. 154; p. 951.
Type-writer attachment. J. L. Murphy. No. 960,997; June 7; Sp. p. 1529; Gaz. vol. 155; p. 256.
Type-writer attachment. F. C. Shobert. No. 969,206; Sept. 6; Sp. p. 137; Gaz. vol. 158; p. 22.
Type-writer attachment. M. Einstein. No. 971,736; Oct. 4; Sp. p. 481; Gaz. vol. 159; p. 83.
Type-writer attachment. B. P. Gibbs. No. 972,358; Oct. 11; Sp. p. 1830; Gaz. vol. 159; p. 321.

Type-writer attachment. E. B. McGilvary. No. 972,776; Oct. 11; Sp. p. 2739; Gaz. vol. 159; p. 466.
Type-writer attachment. F. Manning. No. 973,058; Oct. 18; Sp. p. 3415; Gaz. vol. 159; p. 592.
Type-writer auxiliary ribbon. W. G. Latimer. No. 956,112; Apr. 26; Sp. p. 5247; Gaz. vol. 153; p. 923.
Type-writer back-spacing device. G. A. Smith. No. 961,546; June 14; Sp. p. 2708; Gaz. vol. 155; p. 470.
Type-writer back-spacing device. C. Mercer. No. 966,035; Aug. 2; Sp. p. 414; Gaz. vol. 157; p. 66.
Type-writer back-spacing mechanism. H. Raymond. No. 957,376; May 10; Sp. p. 1898; Gaz. vol. 154; p. 330.
Type-writer, Book. G. W. Donning. No. 970,195; Sept. 13; Sp. p. 2443; Gaz. vol. 158; p. 382.
Type-writer cabinet. E. Baltzley. No. 961,525; June 14; Sp. p. 2652; Gaz. vol. 155; p. 462.
Type-writer cabinet. H. J. Ritter. No. 972,922; Oct. 18; Sp. p. 3119; Gaz. vol. 159; p. 545.
Type-writer cabinet. H. J. Ritter. No. 972,923; Oct. 18; Sp. p. 3122; Gaz. vol. 159; p. 546.
Type-writer carriage. F. G. Stallman. No. 966,715; Aug. 9; Sp. p. 1885; Gaz. vol. 157; p. 319.
Type-writer-carriage escapement. F. Alexander. No. 950,800; Mar. 1; Sp. p. 735; Gaz. vol. 152; p. 117.
Type-writer carriage-feed mechanism. F. G. Stallman. No. 966,779; Aug. 9; Sp. p. 2055; Gaz. vol. 157; p. 342.
Type-writer carriage-feeding device. H. L. W. F. Klemp. No. 978,758; Dec. 13; Sp. p. 2902; Gaz. vol. 161; p. 491.
Type-writer carriage-feeding mechanism. J. Alexander. No. 974,332; Nov. 1; Sp. p. 582; Gaz. vol. 160; p. 86.
Type-writer carriage mechanism. R. W. Uhlig. No. 950,196; Feb. 22; Sp. p. 5133; Gaz. vol. 151; p. 901.
Type-writer carriage mechanism. C. Spiro. No. 953,559; Mar. 29; Sp. p. 6408; Gaz. vol. 152; p. 1148.
Type-writer carriage-return mechanism. N. L. Anderson. No. 953,938; Apr. 5; Sp. p. 505; Gaz. vol. 153; p. 92.
Type-writer carriage-return mechanism. W. Bloomfield. No. 956,471; Apr. 26; Sp. p. 6035; Gaz. vol. 153; p. 1047.
Type-writer clamp. F. Roberts. No. 976,397; Nov. 22; Sp. p. 5137; Gaz. vol. 160; p. 871.
Type-writer desk. C. W. Bickel. No. 956,513; May 3; Sp. p. 14; Gaz. vol. 154; p. 5.
Type-writer, Electrically-operated. C. S. Du Belle. No. 956,798; May 3; Sp. p. 637; Gaz. vol. 154; p. 101.
Type-writer erasing attachment. J. B. Zimdars. No. 953,571; Mar. 29; Sp. p. 6447; Gaz. vol. 152; p. 1153.
Type-writer escapement mechanism. F. S. Rose. No. 948,553; Feb. 8; Sp. p. 1633; Gaz. vol. 151; p. 286.
Type-writer escapement mechanism. W. R. Fox. No. 978,871; Dec. 20; Sp. p. 3111; Gaz. vol. 161; p. 552.
Type-writer feed-roller attachment. C. H. Brown. No. 978,820; Dec. 13; Sp. p. 3005; Gaz. vol. 161; p. 510.
Type-writer inking attachment. E. A. Beard. No. 970,295; Sept. 13; Sp. p. 2467; Gaz. vol. 158; p. 416.
Type-writer key and type-bar mechanism. J. Alexander. No. 974,335; Nov. 1; Sp. p. 588; Gaz. vol. 160; p. 87.
Type-writer key and type-bar mechanism. J. Alexander. No. 978,531; Dec. 13; Sp. p. 2403; Gaz. vol. 161; p. 414.
Type-writer keyboard. M. Trejos. No. 964,340; July 12; Sp. p. 2842; Gaz. vol. 156; p. 469.
Type-writer line-lock mechanism. M. B. Sargent. No. 948,147; Feb. 1; Sp. p. 757; Gaz. vol. 151; p. 124.
Type-writer line-spacing mechanism. J. Alexander. No. 974,333; Nov. 1; Sp. p. 585; Gaz. vol. 160; p. 87.
Type-writer marginal-stop device. G. A. Smith. No. 961,547; June 14; Sp. p. 2709; Gaz. vol. 155; p. 470.
Type-writer operators, Machine for perforating master-sheets for. L. R. Roberts and C. L. Davis. No. 953,180; Mar. 29; Sp. p. 5596; Gaz. vol. 152; p. 1019.
Type-writer, Oriental. S. A. Harrison. No. 977,448; Dec. 6; Sp. p. 44; Gaz. vol. 161; p. 10.
Type-writer paper-feed attachment. W. R. Dixon. No. 946,724; Jan. 18; Sp. p. 3818; Gaz. vol. 150; p. 638.
Type-writer paper-feed attachment. W. R. Dixon. No. 974,556; Nov. 1; Sp. p. 1108; Gaz. vol. 160; p. 167.
Type-writer paper-feed mechanism. W. A. McCool. No. 964,046; July 12; Sp. p. 2253; Gaz. vol. 156; p. 370.
Type-writer ribbon-box. G. M. Crider. No. 958,232; May 17; Sp. p. 3872; Gaz. vol. 154; p. 654.
Type-writer ribbon-movement. G. A. Smith. No. 979,583; Dec. 27; Sp. p. 4683; Gaz. vol. 161; p. 822.
Type-writer ribbon operating and feeding mechanism. J. Alexander. No. 974,334; Nov. 1; Sp. p. 586; Gaz. vol. 160; p. 87.
Type-writer ribbon-reversing mechanism, Automatic. T. E. Buschmann. No. 977,269; Nov. 29; Sp. p. 7038; Gaz. vol. 160; p. 1197.
Type-writer shifting device. H. Tahir, Jr. No. 968,093; Aug. 23; Sp. p. 4802; Gaz. vol. 157; p. 834.
Type-writer shipping-case. J. R. Elkin. No. 960,524; June 7; Sp. p. 570; Gaz. vol. 155; p. 94.
Type-writer tabulating device. G. W. Donning. No. 970,433; Sept. 13; Sp. p. 2728; Gaz. vol. 158; p. 460.
Type-writer tabulating mechanism. C. and W. J. Spiro. No. 953,560; Mar. 29; Sp. p. 6412; Gaz. vol. 152; p. 1149.
Type-writer tabulating mechanism. G. W. Dudley. No. 960,854; June 7; Sp. p. 1239; Gaz. vol. 155; p. 207.
Type-writers and similar machines, Word-counter for. R. M. Pettey. No. 972,226; Oct. 11; Sp. p. 1575; Gaz. vol. 159; p. 276.
Type-writers, Back-feed mechanism for. M. B. Sargent. No. 954,138; Apr. 5; Sp. p. 911; Gaz. vol. 153; p. 158.
Type-writers, Column-stop mechanism for. T. L. Knapp and C. C. Harting. No. 959,061; May 24; Sp. p. 5742; Gaz. vol. 154; p. 963.
Type-writers, Convertible spacing mechanism for. W. D. McGill. No. 945,244; Jan. 4; Sp. p. 495; Gaz. vol. 150; p. 81.
Type-writers, Dead-key mechanism for. T. L. Knapp. No. 946,229; Jan. 11; Sp. p. 2677; Gaz. vol. 150; p. 445.
Type-writers, Duplicating device for. C. E. Foster. No. 964,856; July 19; Sp. p. 4059; Gaz. vol. 156; p. 676.
Type-writers, Paper-guide for. M. B. Sargent. No. 950,190; Feb. 22; Sp. p. 5121; Gaz. vol. 151; p. 899.
Type-writers, Sight-assisting attachment for. P. E. Taylor. No. 955,224; Apr. 19; Sp. p. 3302; Gaz. vol. 153; p. 590.
Type-writers, Sound-absorbing device for. E. Baltzley. No. 956,618; May 3; Sp. p. 238; Gaz. vol. 154; p. 40.
Type-writers, Word-counting device for. W. D. Girand. No. 954,277; Apr. 5; Sp. p. 1231; Gaz. vol. 153; p. 205.
Type-writing and amount-listing machine, Combined. G. J. Barrett. No. 972,150; Oct. 11; Sp. p. 1373; Gaz. vol. 159; p. 251.
Type-writing and computing machine, Combined. A. S. Dennis. No. 949,979; Feb. 22; Sp. p. 4632; Gaz. vol. 151; p. 827.
Type-writing and similar machines, Finger-key for. E. D. Conklin. No. 956,485; Apr. 26; Sp. p. 6076; Gaz. vol. 153; p. 1052.
Type-writing machine. E. A. Goodhue. No. 945,035; Jan. 4; Sp. p. 56; Gaz. vol. 150; p. 11.
Type-writing machine. H. C. Ford. No. 945,159; Jan. 4; Sp. p. 308; Gaz. vol. 150; p. 53.
Type-writing machine. A. W. Hewitt. No. 945,325; Jan. 4; Sp. p. 694; Gaz. vol. 150; p. 108.
Type-writing machine. O. Woodward. No. 945,358; Jan. 4, Sp. p. 767; Gaz. vol. 150; p. 118.
Type-writing machine. A. F. W. J. von Wedel. No. 945,829; Jan. 11; Sp. p. 1833; Gaz. vol. 150; p. 307.
Type-writing machine. O. Woodward. No. 945,893; Jan. 11; Sp. p. 1981; Gaz. vol. 150; p. 329.
Type-writing machine. C. B. Yaw. No. 945,895; Jan. 11; Sp. p. 1988; Gaz. vol. 150; p. 330.
Type-writing machine. H. W. Higham. No. 945,951; Jan. 11; Sp. p. 2104; Gaz. vol. 150; p. 351.
Type-writing machine. H. N. Josleyn. No. 945,956; Jan. 11; Sp. p. 2118; Gaz. vol. 150; p. 353.
Type-writing machine. H. I. Seddon. No. 945,986; Jan. 11; Sp. p. 2175; Gaz. vol. 150; p. 362.
Type-writing machine. L. Sholes. No. 945,987; Jan. 11; Sp. p. 2184; Gaz. vol. 150; p. 362.
Type-writing machine. J. Felbel. No. 946,118; Jan. 11; Sp. p. 2436; Gaz. vol. 150; p. 406.
Type-writing machine. L. C. Myers. No. 946,254; Jan. 11; Sp. p. 2739; Gaz. vol. 150; p. 455.
Type-writing machine. L. S. Hopley. No. 946,365; Jan. 11; Sp. p. 2969; Gaz. vol. 150; p. 493.
Type-writing machine. E. B. Hess. No. 946,776; Jan. 18; Sp. p. 3943; Gaz. vol. 150; p. 656.
Type-writing machine. H. C. Ford. No. 946,797; Jan. 18; Sp. p. 3993; Gaz. vol. 150; p. 664.
Type-writing machine. H. L. Wagner. No. 946,814; Jan. 18; Sp. p. 4041; Gaz. vol. 150; p. 670.
Type-writing machine. A. T. Brown. No. 946,912; Jan. 18; Sp. p. 4284; Gaz. vol. 150; p. 704.
Type-writing machine. S. Nielsen. No. 947,253; Jan. 25; Sp. p. 4953; Gaz. vol. 150; p. 843.
Type-writing machine. M. W. Pool. No. 947,257; Jan. 25; Sp. p. 4967; Gaz. vol. 150; p. 845.
Type-writing machine. C. B. Yaw. No. 947,269; Jan. 25; Sp. p. 4996; Gaz. vol. 150; p. 849.
Type-writing machine. A. J. Briggs. No. 947,276; Jan. 25; Sp. p. 5040; Gaz. vol. 150; p. 852.
Type-writing machine. J. C. McLaughlin. No. 947,417; Jan. 25; Sp. p. 5375; Gaz. vol. 150; p. 901.
Type-writing machine. E. B. Hess. No. 947,443; Jan. 25; Sp. p. 5431; Gaz. vol. 150; p. 909.
Type-writing machine. L. C. Myers. No. 947,450; Jan. 25; Sp. p. 5445; Gaz. vol. 150; p. 911.
Type-writing machine. G. A. Seib. No. 947,499; Jan. 25; Sp. p. 5586; Gaz. vol. 150; p. 928.
Type-writing machine. H. L. Wagner. No. 947,873; Feb. 1; Sp. p. 214; Gaz. vol. 151; p. 34.
Type-writing machine. A. G. F. Kurowski. No. 948,058; Feb. 1; Sp. p. 587; Gaz. vol. 151; p. 94.
Type-writing machine. A. C. Smith. No. 948,065; Feb. 1; Sp. p. 603; Gaz. vol. 151; p. 97.
Type-writing machine. O. A. Martini. No. 948,145; Feb. 1; Sp. p. 756; Gaz. vol. 151; p. 124.
Type-writing machine. A. Obernolte. No. 948,146; Feb. 1; Sp. p. 756; Gaz. vol. 151; p. 124.
Type-writing machine. H. S. McCormack. No. 948,481; Feb. 8; Sp. p. 1472; Gaz. vol. 151; p. 261.
Type-writing machine. A. W. Steiger. No. 948,486; Feb. 8; Sp. p. 1490; Gaz. vol. 151; p. 263.
Type-writing machine. J. C. McLaughlin and W. Baber. No. 948,668; Feb. 8; Sp. p. 1878; Gaz. vol. 151; p. 324.
Type-writing machine. J. C. McLaughlin. No. 948,669. Feb. 8; Sp. p. 1881; Gaz. vol. 151; p. 324.

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Type-writing machine. A. M. Stone. No. 948,799; Feb. 8; Sp. p. 2163; Gaz. vol. 151; p. 368.
Type-writing machine. E. B. Hess. No. 948,972; Feb. 8; Sp. p. 2498; Gaz. vol. 151; p. 425.
Type-writing machine. E. B. Hess. No. 948,974; Feb. 8; Sp. p. 2507; Gaz. vol. 151; p. 426.
Type-writing machine. G. A. Seib. No. 949,008; Feb. 15; Sp. p. 2587; Gaz. vol. 151; p. 465.
Type-writing machine. O. Woodward. No. 949,105; Feb. 15; Sp. p. 2787; Gaz. vol. 151; p. 495.
Type-writing machine. B. Dysart. No. 949,224; Feb. 15; Sp. p. 3012; Gaz. vol. 151; p. 535.
Type-writing machine. E. E. Barney. No. 949,257; Feb. 15; Sp. p. 3087; Gaz. vol. 151; p. 547.
Type-writing machine. T. J. Coo. No. 949,463; Feb. 15; Sp. p. 3526; Gaz. vol. 151; p. 616.
Type-writing machine. C. E. Tomlinson. No. 949,508; Feb. 15; Sp. p. 3618; Gaz. vol. 151; p. 631.
Type-writing machine. C. E. Tomlinson. No. 949,509; Feb. 15; Sp. p. 3623; Gaz. vol. 151; p. 631.
Type-writing machine. R. S. Valiant. No. 949,720; Feb. 15; Sp. p. 4024; Gaz. vol. 151; p. 700.
Type-writing machine. F. A. Young. No. 949,721; Feb. 15; Sp. p. 4024; Gaz. vol. 151; p. 700.
Type-writing machine. W. E. Barnard. No. 949,723; Feb. 15; Sp. p. 4033; Gaz. vol. 151; p. 701.
Type-writing machine. J. A. Ronchetti. No. 949,808; Feb. 22; Sp. p. 4242; Gaz. vol. 151; p. 765.
Type-writing machine. L. R. Roberts. No. 950,029; Feb. 22; Sp. p. 4804; Gaz. vol. 151; p. 845.
Type-writing machine. E. B. Hess. No. 950,326; Feb. 22; Sp. p. 5392; Gaz. vol. 151; p. 946.
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Type-writing machine. F. A. Cook. No. 950,998; Mar. 1; Sp. p. 1107; Gaz. vol. 152; p. 179.
Type-writing machine. J. C. McLaughlin. No. 951,542; Mar. 8; Sp. p. 2192; Gaz. vol. 152; p. 381.
Type-writing machine. J. C. McLaughlin. No. 951,543; Mar. 8; Sp. p. 2194; Gaz. vol. 152; p. 381.
Type-writing machine. C. H. Shepard. No. 951,848; Mar. 15; Sp. p. 2823; Gaz. vol. 152; p. 515.
Type-writing machine. C. E. Tomlinson. No. 952,021; Mar. 15; Sp. p. 3171; Gaz. vol. 152; p. 571.
Type-writing machine. E. F. Kunath. No. 952,203; Mar. 15; Sp. p. 3505; Gaz. vol. 152; p. 631.
Type-writing machine. F. A. Cook. No. 952,235; Mar. 15; Sp. p. 3574; Gaz. vol. 152; p. 642.
Type-writing machine. H. W. Merritt and H. D. Pomeroy. No. 952,749; Mar. 22; Sp. p. 4676; Gaz. vol. 152; p. 846.
Type-writing machine. C. W. Walker. No. 952,771; Mar. 22; Sp. p. 4731; Gaz. vol. 152; p. 853.
Type-writing machine. C. B. Yaw. No. 953,083; Mar. 29; Sp. p. 5366; Gaz. vol. 152; p. 987.
Type-writing machine. S. T. Smith. No. 953,184; Mar. 29; Sp. p. 5609; Gaz. vol. 152; p. 1020.
Type-writing machine. C. H. Shepard. No. 953,440; Mar. 29; Sp. p. 6158; Gaz. vol. 152; p. 1105.
Type-writing machine. B. C. Stickney. No. 953,447; Mar. 29; Sp. p. 6176; Gaz. vol. 152; p. 1107.
Type-writing machine. N. F. Petit. No. 953,489; Mar. 29; Sp. p. 6264; Gaz. vol. 152; p. 1123.
Type-writing machine. H. H. Steele. No. 953,494; Mar. 29; Sp. p. 6281; Gaz. vol. 152; p. 1126.
Type-writing machine. B. C. Stickney. No. 953,561; Mar. 29; Sp. p. 6418; Gaz. vol. 152; p. 1149.
Type-writing machine. H. S. McCormack. No. 953,793; Apr. 5; Sp. p. 218; Gaz. vol. 153; p. 40.
Type-writing machine. J. C. McLaughlin. No. 953,794; Apr. 5; Sp. p. 224; Gaz. vol. 153; p. 40.
Type-writing machine. G. B. Brand. No. 953,816; Apr. 5; Sp. p. 271; Gaz. vol. 153; p. 48.
Type-writing machine. H. S. McCormack. No. 953,854; Apr. 5; Sp. p. 347; Gaz. vol. 153; p. 62.
Type-writing machine. F. A. Cook. No. 953,898; Apr. 5; Sp. p. 424; Gaz. vol. 153; p. 77.
Type-writing machine. O. C. Kavle. No. 954,439; Apr. 12; Sp. p. 1564; Gaz. vol. 153; p. 288.
Type-writing machine. A. G. F. Kurowski. No. 954,637; Apr. 12; Sp. p. 2019; Gaz. vol. 153; p. 356.
Type-writing machine. O. Woodward. No. 954,843; Apr. 12; Sp. p. 2517; Gaz. vol. 153; p. 429.
Type-writing machine. C. E. Smith. No. 954,894; Apr. 12; Sp. p. 2628; Gaz. vol. 153; p. 447.
Type-writing machine. W. E. Barnard. No. 954,911; Apr. 12; Sp. p. 2679; Gaz. vol. 153; p. 453.
Type-writing machine. E. E. Barney. No. 954,912; Apr. 12; Sp. p. 2682; Gaz. vol. 153; p. 453.
Type-writing machine. H. H. Steele. No. 955,010; Apr. 12; Sp. p. 2863; Gaz. vol. 153; p. 486.
Type-writing machine. W. J. Roche. No. 955,207; Apr. 19; Sp. p. 3263; Gaz. vol. 153; p. 584.
Type-writing machine. J. Felbel. No. 955,327; Apr. 19; Sp. p. 3515; Gaz. vol. 153; p. 623.
Type-writing machine. J. Felbel. No. 955,328; Apr. 19; Sp. p. 3522; Gaz. vol. 153; p. 624.
Type-writing machine. H. H. Steele. No. 955,368; Apr. 19; Sp. p. 3610; Gaz. vol. 153; p. 637.
Type-writing machine. O. Woodward. No. 955,489; Apr. 19; Sp. p. 3858; Gaz. vol. 153; p. 679.

Type-writing machine. G. F. Ballou. No. 955,892; Apr. 26; Sp. p. 4787; Gaz. vol. 153; p. 847.
Type-writing machine. A. J. Briggs and H. C. Ford. No. 955,942; Apr. 26; Sp. p. 4876; Gaz. vol. 153; p. 863.
Type-writing machine. E. B. Hess. No. 955,964; Apr. 26; Sp. p. 4931; Gaz. vol. 153; p. 872.
Type-writing machine. F. Alexander. No. 956,020; Apr. 26; Sp. p. 5042; Gaz. vol. 153; p. 891.
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Type-writing machine. C. L. Fortier. No. 956,067; Apr. 26; Sp. p. 5149; Gaz. vol. 153; p. 908.
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Type-writing machine. J. C. McLaughlin. No. 956,144; Apr. 26; Sp. p. 5318; Gaz. vol. 153; p. 935.
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Type-writing machine. E. H. Berry. No. 956,672; May 3; Sp. p. 356; Gaz. vol. 154; p. 59.
Type-writing machine. G. C. Blickensderfer. No. 956,879; May 3; Sp. p. 822; Gaz. vol. 154; p. 131.
Type-writing machine. E. E. Barney. No. 957,178; May 10; Sp. p. 1459; Gaz. vol. 154; p. 261.
Type-writing machine. H. H. Steele. No. 957,268; May 10; Sp. p. 1669; Gaz. vol. 154; p. 293.
Type-writing machine. O. Woodward. No. 957,288; May 10; Sp. p. 1714; Gaz. vol. 154; p. 300.
Type-writing machine. F. A. Young. No. 957,294; May 10; Sp. p. 1732; Gaz. vol. 154; p. 303.
Type-writing machine. C. B. Yaw. No. 957,402; May 10; Sp. p. 1954; Gaz. vol. 154; p. 338.
Type-writing machine. W. C. Paul. No. 957,624; May 10; Sp. p. 2387; Gaz. vol. 154; p. 414.
Type-writing machine. H. Crutchley. No. 957,749; May 10; Sp. p. 2646; Gaz. vol. 154; p. 456.
Type-writing machine. S. Nielsen. No. 957,995; May 17; Sp. p. 3251; Gaz. vol. 154; p. 571.
Type-writing machine. C. B. Yaw. No. 958,573; May 17; Sp. p. 4698; Gaz. vol. 154; p. 772.
Type-writing machine. E. B. Hess. No. 958,702; May 17; Sp. p. 4950; Gaz. vol. 154; p. 813.
Type-writing machine. A. W. Smith. No. 958,778; May 24; Sp. p. 5130; Gaz. vol. 154; p. 866.
Type-writing machine. J. C. McLaughlin. No. 958,817; May 24; Sp. p. 5222; Gaz. vol. 154; p. 881.
Type-writing machine. J. C. McLaughlin. No. 958,818; May 24; Sp. p. 5224; Gaz. vol. 154; p. 881.
Type-writing machine. J. A. Edlund. No. 959,125; May 24; Sp. p. 5880; Gaz. vol. 154; p. 985.
Type-writing machine. W. E. Barnard. No. 959,444; May 31; Sp. p. 6512; Gaz. vol. 154; p. 1116.
Type-writing machine. W. J. Barron. No. 959,696; May 31; Sp. p. 7062; Gaz. vol. 154; p. 1199.
Type-writing machine. F. A. Young. No. 959,829; May 31; Sp. p. 7357; Gaz. vol. 154; p. 1245.
Type-writing machine. H. H. Steele. No. 960,427; June 7; Sp. p. 380; Gaz. vol. 155; p. 64.
Type-writing machine. W. P. McLaughlin. No. 960,679; June 7; Sp. p. 896; Gaz. vol. 155; p. 149.
Type-writing machine. G. B. Brand. No. 960,804; June 7; Sp. p. 1144; Gaz. vol. 155; p. 191.
Type-writing machine. L. S. Burridge. No. 961,101; June 14; Sp. p. 1742; Gaz. vol. 155; p. 316.
Type-writing machine. O. Woodward. No. 961,194; June 14; Sp. p. 1930; Gaz. vol. 155; p. 349.
Type-writing machine. W. E. Barnard. No. 961,202; June 14; Sp. p. 1946; Gaz. vol. 155; p. 352.
Type-writing machine. C. A. Joerissen. No. 961,238; June 14; Sp. p. 2026; Gaz. vol. 155; p. 365.
Type-writing machine. F. A. Young. No. 961,280; June 14; Sp. p. 2121; Gaz. vol. 155; p. 380.
Type-writing machine. W. Y. Forbes and W. H. Rothwell. No. 961,597; June 14; Sp. p. 2811; Gaz. vol. 155; p. 486.
Type-writing machine. W. Y. Forbes and W. H. Rothwell. No. 961,598; June 14; Sp. p. 2812; Gaz. vol. 155; p. 486.
Type-writing machine. T. De Prins and D. Riga. No. 962,079; June 21; Sp. p. 3837; Gaz. vol. 155; p. 672.
Type-writing machine. L. D. Broughton. No. 962,121; June 21; Sp. p. 3950; Gaz. vol. 155; p. 687.
Type-writing machine. F. L. Sholes. No. 962,169; June 21; Sp. p. 4058; Gaz. vol. 155; p. 704.
Type-writing machine. A. T. Brown. No. 962,418; June 28; Sp. p. 4593; Gaz. vol. 155; p. 812.
Type-writing machine. W. G. Dunham. No. 962,556; June 28; Sp. p. 4916; Gaz. vol. 155; p. 861.
Type-writing machine. G. A. Seib. No. 962,591; June 28; Sp. p. 4984; Gaz. vol. 155; p. 872.
Type-writing machine. R. H. Strother. No. 962,600; June 28; Sp. p. 5000; Gaz. vol. 155; p. 875.
Type-writing machine. A. J. Briggs. No. 962,616; June 28; Sp. p. 5030; Gaz. vol. 155; p. 880.
Type-writing machine. R. W. Uhlig. No. 962,727; June 28; Sp. p. 5266; Gaz. vol. 155; p. 919.
Type-writing machine. E. H. Berry. No. 963,269; July 5; Sp. p. 617; Gaz. vol. 156; p. 86.
Type-writing machine. G. A. Seib. No. 963,328; July 5; Sp. p. 735; Gaz. vol. 156; p. 106.

Type-writing machine. H. S. McCormack. No. 963,629; July 5; Sp. p. 1339; Gaz. vol. 156; p. 207.
Type-writing machine. A. J. Briggs. No. 963,856; July 12; Sp. p. 1857; Gaz. vol. 156; p. 306.
Type-writing machine. F. Sholes. No. 963,949; July 12; Sp. p. 2036; Gaz. vol. 156; p. 335.
Type-writing machine. H. H. Steele. No. 963,956; July 12; Sp. p. 2060; Gaz. vol. 156; p. 337.
Type-writing machine. O. Woodward. No. 963,971; July 12; Sp. p. 2094; Gaz. vol. 156; p. 342.
Type-writing machine. C. B. Yaw. No. 963,974; July 12; Sp. p. 2100; Gaz. vol. 156; p. 343.
Type-writing machine. A. S. Dennis. No. 964,091; July 12; Sp. p. 2346; Gaz. vol. 156; p. 386.
Type-writing machine. F. J. Tanner and I. E. Jones. No. 964,135; July 12; Sp. p. 2437; Gaz. vol. 156; p. 400.
Type-writing machine. A. S. Dennis. No. 964,220; July 12; Sp. p. 2591; Gaz. vol. 156; p. 427.
Type-writing machine. C. Gabrielson. No. 964,638; July 19; Sp. p. 3506; Gaz. vol. 156; p. 600.
Type-writing machine. G. F. Stillman. No. 964,822; July 19; Sp. p. 3985; Gaz. vol. 156; p. 663.
Type-writing machine. S. Nielsen. No. 964,878; July 19; Sp. p. 4100; Gaz. vol. 156; p. 683.
Type-writing machine. A. Lindenberg. No. 964,924; July 19; Sp. p. 4196; Gaz. vol. 156; p. 700.
Type-writing machine. W. J. Barron. No. 965,061; July 19; Sp. p. 4473; Gaz. vol. 156; p. 744.
Type-writing machine. H. B. Rumrill. No. 965,231; July 26; Sp. p. 4804; Gaz. vol. 156; p. 831.
Type-writing machine. R. W. Uhlig. No. 965,346; July 26; Sp. p. 5074; Gaz. vol. 156; p. 871.
Type-writing machine. R. W. Uhlig. No. 965,347; July 26; Sp. p. 5077; Gaz. vol. 156; p. 872.
Type-writing machine. R. W. Uhlig. No. 965,421; July 26; Sp. p. 5215; Gaz. vol. 156; p. 895.
Type-writing machine. C. B. Yaw. No. 965,496; July 26; Sp. p. 5380; Gaz. vol. 156; p. 921.
Type-writing machine. A. T. Brown. No. 965,501; July 26; Sp. p. 5396; Gaz. vol. 156; p. 923.
Type-writing machine. C. B. Yaw. No. 965,789; July 26; Sp. p. 6030; Gaz. vol. 156; p. 1024.
Type-writing machine. C. B. Yaw. No. 965,790; July 26; Sp. p. 6036; Gaz. vol. 156; p. 1024.
Type-writing machine. E. Parmly, Jr. No. 965,835; July 26; Sp. p. 6133; Gaz. vol. 156; p. 1040.
Type-writing machine. C. E. Smith. No. 965,957; Aug. 2; Sp. p. 217; Gaz. vol. 157; p. 38.
Type-writing machine. M. S. Cumner. No. 966,169; Aug. 2; Sp. p. 703; Gaz. vol. 157; p. 111.
Type-writing machine. H. E. Curtis. No. 966,170; Aug. 2; Sp. p. 704; Gaz. vol. 157; p. 111.
Type-writing machine. A. G. F. Kurowski. No. 966,219; Aug. 2; Sp. p. 810; Gaz. vol. 157; p. 128.
Type-writing machine. F. G. Stallman. No. 966,714; Aug. 9; Sp. p. 1864; Gaz. vol. 157; p. 319.
Type-writing machine. H. H. Steele. No. 966,716; Aug. 9; Sp. p. 1887; Gaz. vol. 157; p. 320.
Type-writing machine. J. T. Schaaff. No. 966,954; Aug. 9; Sp. p. 2413; Gaz. vol. 157; p. 397.
Type-writing machine. J. T. Schaaff. No. 966,955; Aug. 9; Sp. p. 2417; Gaz. vol. 157; p. 397.
Type-writing machine. J. T. Schaaff. No. 966,956; Aug. 9; Sp. p. 2419; Gaz. vol. 157; p. 398.
Type-writing machine. J. T. Schaaff. No. 966,957; Aug. 9; Sp. p. 2423; Gaz. vol. 157; p. 398.
Type-writing machine. C. Gabrielson. No. 967,180; Aug. 16; Sp. p. 2904; Gaz. vol. 157; p. 503.
Type-writing machine. E. E. Barney. No. 967,706; Aug. 16; Sp. p. 3964; Gaz. vol. 157; p. 680.
Type-writing machine. J. Felbel. No. 967,894; Aug. 23; Sp. p. 4347; Gaz. vol. 157; p. 767.
Type-writing machine. R. H. Strother. No. 967,995; Aug. 23; Sp. p. 4570; Gaz. vol. 157; p. 802.
Type-writing machine. W. Y. Forbes and W. H. Rothwell. No. 968,042; Aug. 23; Sp. p. 4680; Gaz. vol. 157; p. 818.
Type-writing machine. N. F. Knox. No. 968,060; Aug. 23; Sp. p. 4715; Gaz. vol. 157; p. 823.
Type-writing machine. C. H. Shepard. No. 968,087; Aug. 23; Sp. p. 4785; Gaz. vol. 157; p. 833.
Type-writing machine. G. F. Ballou. No. 968,442; Aug. 23; Sp. p. 5535; Gaz. vol. 157; p. 955.
Type-writing machine. F. A. Robinson. No. 968,985; Aug. 30; Sp. p. 6698; Gaz. vol. 157; p. 1166.
Type-writing machine. J. H. Barr. No. 969,326; Sept. 6; Sp. p. 366; Gaz. vol. 158; p. 60.
Type-writing machine. T. L. Knapp. No. 969,483; Sept. 6; Sp. p. 698; Gaz. vol. 158; p. 111.
Type-writing machine. A. T. Brown. No. 969,836; Sept. 13; Sp. p. 1504; Gaz. vol. 158; p. 259.
Type-writing machine. H. H. Steele. No. 969,915; Sept. 13; Sp. p. 1663; Gaz. vol. 158; p. 287.
Type-writing machine. C. Holland. No. 970,052; Sept. 13; Sp. p. 1970; Gaz. vol. 158; p. 334.
Type-writing machine. H. W. Merrett. No. 970,076; Sept. 13; Sp. p. 2016; Gaz. vol. 158; p. 342.
Type-writing machine. R. W. Uhlig. No. 970,668; Sept. 20; Sp. p. 3266; Gaz. vol. 158; p. 563.
Type-writing machine. C. Hellstrom. No. 970,708; Sept. 20; Sp. p. 3366; Gaz. vol. 158; p. 577.
Type-writing machine. W. Y. Forbes and W. H. Rothwell. No. 971,032; Sept. 27; Sp. p. 4035; Gaz. vol. 158; p. 714.
Type-writing machine. C. B. Yaw. No. 971,098; Sept. 27; Sp. p. 4177; Gaz. vol. 158; p. 737.
Type-writing machine. O. Woodward. No. 971,234; Sept. 27; Sp. p. 4467; Gaz. vol. 158; p. 782.
Type-writing machine. V. A. E. Sivertsen and J. C. Nielsen. No. 971,696; Oct. 4; Sp. p. 382; Gaz. vol. 159; p. 67.
Type-writing machine. A. T. Brown. No. 971,721; Oct. 4; Sp. p. 440; Gaz. vol. 159; p. 77.
Type-writing machine. G. A. Seib. No. 971,932; Oct. 4; Sp. p. 921; Gaz. vol. 159; p. 156.
Type-writing machine. J. Waldheim. No. 971,944; Oct. 4; Sp. p. 954; Gaz. vol. 159; p. 161.
Type-writing machine. O. Woodward. No. 971,953; Oct. 4; Sp. p. 980; Gaz. vol. 159; p. 164.
Type-writing machine. C. B. Yaw. No. 971,955; Oct. 4; Sp. p. 988; Gaz. vol. 159; p. 165.
Type-writing machine. G. F. Ballou. No. 971,959; Oct. 4; Sp. p. 1001; Gaz. vol. 159; p. 167.
Type-writing machine. G. F. Ballou. No. 971,960; Oct. 4; Sp. p. 1007; Gaz. vol. 159; p. 167.
Type-writing machine. H. S. McCormack. No. 972,009; Oct. 4; Sp. p. 1098; Gaz. vol. 159; p. 184.
Type-writing machine. E. L. Pfunder. No. 972,022; Oct. 4; Sp. p. 1124; Gaz. vol. 159; p. 188.
Type-writing machine. G. C. Blickensderfer. No. 972,152; Oct. 11; Sp. p. 1400; Gaz. vol. 159; p. 251.
Type-writing machine. J. T. Schaaff. No. 972,255; Oct. 11; Sp. p. 1628; Gaz. vol. 159; p. 286.
Type-writing machine. H. S. McCormack. No. 972,566; Oct. 11; Sp. p. 2306; Gaz. vol. 159; p. 396.
Type-writing machine. G. A. Seib. No. 972,578; Oct. 11; Sp. p. 2335; Gaz. vol. 159; p. 400.
Type-writing machine. H. S. McCormack. No. 972,706; Oct. 11; Sp. p. 2591; Gaz. vol. 159; p. 442.
Type-writing machine. O. L. Ingram. No. 972,862; Oct. 18; Sp. p. 2946; Gaz. vol. 159; p. 522.
Type-writing machine. C. E. Smith. No. 972,935; Oct. 18; Sp. p. 3148; Gaz. vol. 159; p. 550.
Type-writing machine. H. H. Steele. No. 972,940; Oct. 18; Sp. p. 3160; Gaz. vol. 159; p. 551.
Type-writing machine. F. J. Dyett. No. 973,015; Oct. 18; Sp. p. 3318; Gaz. vol. 159; p. 577.
Type-writing machine. G. H. Smith. No. 973,083; Oct. 18; Sp. p. 3458; Gaz. vol. 159; p. 599.
Type-writing machine. G. H. Smith. No. 973,226; Oct. 18; Sp. p. 3799; Gaz. vol. 159; p. 650.
Type-writing machine. L. S. Burridge. No. 973,341; Oct. 18; Sp. p. 4032; Gaz. vol. 159; p. 690.
Type-writing machine. T. J. Coo. No. 973,342; Oct. 18; Sp. p. 4034; Gaz. vol. 159; p. 690.
Type-writing machine. C. W. Howell. No. 973,352; Oct. 18; Sp. p. 4052; Gaz. vol. 159; p. 693.
Type-writing machine. H. Resch. No. 973,385; Oct. 18; Sp. p. 4129; Gaz. vol. 159; p. 704.
Type-writing machine. A. G. F. Kurowski. No. 973,519; Oct. 25; Sp. p. 4421; Gaz. vol. 159; p. 773.
Type-writing machine. T. J. Coo. No. 973,628; Oct. 25; Sp. p. 4654; Gaz. vol. 159; p. 809.
Type-writing machine. G. Swenson. No. 973,721; Oct. 25; Sp. p. 4849; Gaz. vol. 159; p. 843.
Type-writing machine. E. E. Barney. No. 973,844; Oct. 25; Sp. p. 5100; Gaz. vol. 159; p. 886.
Type-writing machine. H. H. Steele. No. 973,988; Oct. 25; Sp. p. 5392; Gaz. vol. 159; p. 936.
Type-writing machine. T. J. Coo. No. 974,237; Nov. 1; Sp. p. 346; Gaz. vol. 160; p. 50.
Type-writing machine. R. W. Uhlig. No. 974,314; Nov. 1; Sp. p. 534; Gaz. vol. 160; p. 79.
Type-writing machine. J. Waldheim. No. 974,318; Nov. 1; Sp. p. 549; Gaz. vol. 160; p. 81.
Type-writing machine. A. T. Brown. No. 974,353; Nov. 1; Sp. p. 624; Gaz. vol. 160; p. 94.
Type-writing machine. C. W. Howell. No. 974,383; Nov. 1; Sp. p. 685; Gaz. vol. 160; p. 104.
Type-writing machine. J. T. Schaaff. No. 974,438; Nov. 1; Sp. p. 812; Gaz. vol. 160; p. 122.
Type-writing machine. C. H. Shepard. No. 974,441; Nov. 1; Sp. p. 829; Gaz. vol. 160; p. 123.
Type-writing machine. A. W. Steiger. No. 974,445; Nov. 1; Sp. p. 841; Gaz. vol. 160; p. 125.
Type-writing machine. C. F. Lundeberg. No. 974,503; Nov. 1; Sp. p. 983; Gaz. vol. 160; p. 146.
Type-writing machine. C. A. MacDermott. No. 974,505; Nov. 1; Sp. p. 987; Gaz. vol. 160; p. 147.
Type-writing machine. A. W. Smith. No. 974,836; Nov. 8; Sp. p. 1700; Gaz. vol. 160; p. 286.
Type-writing machine. B. C. Stickney. No. 974,841; Nov. 8; Sp. p. 1714; Gaz. vol. 160; p. 288.
Type-writing machine. E. B. Hess. No. 974,882; Nov. 8; Sp. p. 1818; Gaz. vol. 160; p. 302.
Type-writing machine. E. B. Hess. No. 974,883; Nov. 8; Sp. p. 1819; Gaz. vol. 160; p. 302.
Type-writing machine. E. C. Trouslot. No. 974,933; Nov. 8; Sp. p. 1938; Gaz. vol. 160; p. 320.
Type-writing machine. H. Glaeser. No. 974,958; Nov. 8; Sp. p. 2013; Gaz. vol. 160; p. 329.
Type-writing machine. J. Felbel. No. 975,027; Nov. 8; Sp. p. 2162; Gaz. vol. 160; p. 352.

Alphabetical list of inventions—Continued.

Type-writing machine. W. J. Roche. No. 975,075; Nov. 8; Sp. p. 2260; Gaz. vol. 160; p. 368.
Type-writing machine. A. W. Steiger. No. 975,086; Nov. 8; Sp. p. 2279; Gaz. vol. 160; p. 372.
Type-writing machine. C. B. Yaw. No. 975,099; Nov. 8; Sp. p. 2307; Gaz. vol. 160; p. 377.
Type-writing machine. C. B. Yaw. No. 975,100; Nov. 8; Sp. p. 2307; Gaz. vol. 160; p. 377.
Type-writing machine. C. B. Yaw. No. 975,101; Nov. 8; Sp. p. 2311; Gaz. vol. 160; p. 378.
Type-writing machine. J. H. Barr. No. 975,110; Nov. 8; Sp. p. 2336; Gaz. vol. 160; p. 381.
Type-writing machine. A. W. Smith. No. 975,168; Nov. 8; Sp. p. 2471; Gaz. vol. 160; p. 400.
Type-writing machine. A. W. Smith. No. 975,169; Nov. 8; Sp. p. 2476; Gaz. vol. 160; p. 401.
Type-writing machine. A. W. Smith. No. 975,170; Nov. 8; Sp. p. 2480; Gaz. vol. 160; p. 401.
Type-writing machine. O. Woodward. No. 975,190; Nov. 8; Sp. p. 2530; Gaz. vol. 160; p. 409.
Type-writing machine. W. E. Barnard. No. 975,200; Nov. 8; Sp. p. 2553; Gaz. vol. 160; p. 412.
Type-writing machine. C. Gibbs. No. 975,228; Nov. 8; Sp. p. 2606; Gaz. vol. 160; p. 421.
Type-writing machine. H. S. McCormack. No. 975,264; Nov. 8; Sp. p. 2680; Gaz. vol. 160; p. 433.
Type-writing machine. B. P. Fortin. No. 975,610; Nov. 15; Sp. p. 3411; Gaz. vol. 160; p. 579.
Type-writing machine. H. H. Steele. No. 975,732; Nov. 15; Sp. p. 3671; Gaz. vol. 160; p. 619.
Type-writing machine. C. D. Wallace. No. 975,739; Nov. 15; Sp. p. 3687; Gaz. vol. 160; p. 621.
Type-writing machine. N. F. Knox. No. 975,770; Nov. 15; Sp. p. 3748; Gaz. vol. 160; p. 632.
Type-writing machine. H. Crutchley. No. 975,834; Nov. 15; Sp. p. 3867; Gaz. vol. 160; p. 653.
Type-writing machine. J. C. McLaughlin. No. 975,884; Nov. 15; Sp. p. 3979; Gaz. vol. 160; p. 671.
Type-writing machine. C. B. Corcoran. No. 976,124; Nov. 15; Sp. p. 4449; Gaz. vol. 160; p. 753.
Type-writing machine. H. N. Josleyn. No. 976,882; Nov. 29; Sp. p. 6165; Gaz. vol. 160; p. 1062.
Type-writing machine. A. G. F. Kurowski. No. 977,019; Nov. 29; Sp. p. 6510; Gaz. vol. 160; p. 1110.
Type-writing machine. A. W. Smith. No. 977,480; Dec. 6; Sp. p. 116; Gaz. vol. 161; p. 20.
Type-writing machine. C. G. Rosenhauer. No. 978,214; Dec. 13; Sp. p. 1728; Gaz. vol. 161; p. 304.
Type-writing machine. O. Woodward. No. 978,255; Dec. 13; Sp. p. 1819; Gaz. vol. 161; p. 318.
Type-writing machine. W. Hainer. No. 978,369; Dec. 13; Sp. p. 2054; Gaz. vol. 161; p. 358.
Type-writing machine. J. Waldheim. No. 978,522; Dec. 13; Sp. p. 2381; Gaz. vol. 161; p. 411.
Type-writing machine. A. G. F. Kurowski. No. 978,902; Dec. 20; Sp. p. 3178; Gaz. vol. 161; p. 564.
Type-writing machine. L. Ney. No. 978,926; Dec. 20; Sp. p. 3228; Gaz. vol. 161; p. 573.
Type-writing machine. G. A. Seib and J. W. Koerner. No. 978,944; Dec. 20; Sp. p. 3274; Gaz. vol. 161; p. 580.
Type-writing machine. C. Gibbs and J. Sokolov. No. 979,000; Dec. 20; Sp. p. 3411; Gaz. vol. 161; p. 600.
Type-writing machine. C. E. Smith. No. 979,215; Dec. 20; Sp. p. 3908; Gaz. vol. 161; p. 676.
Type-writing machine. C. E. Smith. No. 979,216; Dec. 20; Sp. p. 3914; Gaz. vol. 161; p. 676.
Type-writing machine. F. J. Tanner. No. 979,355; Dec. 20; Sp. p. 4183; Gaz. vol. 161; p. 722.
Type-writing machine. H. M. Hamilton. No. 979,480; Dec. 27; Sp. p. 4447; Gaz. vol. 161; p. 786.
Type-writing machine. C. B. Yaw. No. 979,630; Dec. 27; Sp. p. 4778; Gaz. vol. 161; p. 839.
Type-writing machine. W. W. Hopkins. No. 979,671; Dec. 27; Sp. p. 4861; Gaz. vol. 161; p. 852.
Type-writing machine. D. Marinsky. No. 979,680; Dec. 27; Sp. p. 4882; Gaz. vol. 161; p. 855.
Type-writing machine. H. H. Steele. No. 979,717; Dec. 27; Sp. p. 4956; Gaz. vol. 161; p. 869.
Type-writing machine. W. J. Barron. No. 979,731; Dec. 27; Sp. p. 5002; Gaz. vol. 161; p. 873.
Type-writing machine. W. J. Roche. No. 979,800; Dec. 27; Sp. p. 5172; Gaz. vol. 161; p. 896.
Type-writing machine. L. Ney. No. 979,991; Dec. 27; Sp. p. 5550; Gaz. vol. 161; p. 959.
Type-writing machine. C. F. Crandall. (Reissue.) No. 13,185; Dec. 27; Sp. p. 6004; Gaz. vol. 161; p. 1022.
Type-writing machine, Card-. F. D. Belknap. No. 960,252; June 7; Sp. p. 17; Gaz. vol. 155; p. 6.
Type-writing-machine carriage. O. C. Kavle. No. 976,466; Nov. 22; Sp. p. 5272; Gaz. vol. 160; p. 895.
Type-writing-machine carriages, Ball-bearing for. E. B. Hess. No. 958,498; May 17; Sp. p. 4558; Gaz. vol. 154; p. 747.
Type-writing machine, &c., Coin and time controlled. H. Bates. No. 949,816; Feb. 22; Sp. p. 4261; Gaz. vol. 151; p. 768.
Type-writing-machine copy-holder. T. L. Knapp. No. 954,111; Apr. 5; Sp. p. 866; Gaz. vol. 153; p. 150.
Type-writing-machine inking device. H. H. Angell. No. 952,091; Mar. 15; Sp. p. 3295; Gaz. vol. 152; p. 594.
Type-writing-machine paper-carriage. E. M. Ingersoll. No. 953,385; Mar. 29; Sp. p. 6049; Gaz. vol. 152; p. 1087.
Type-writing-machine paper-finger. C. Gabrielson. No. 959,850; May 31; Sp. p. 7397; Gaz. vol. 154; p. 1253.
Type-writing-machine platen. R. W. Wolff. No. 964,599; July 19; Sp. p. 3438; Gaz. vol. 156; p. 587.
Type-writing machine, Pneumatically-operated. M. Soblik. No. 947,683; Jan. 25; Sp. p. 5960; Gaz. vol. 150; p. 992.
Type-writing-machine ribbon-feeding mechanism. F. Alexander. No. 959,833; May 31; Sp. p. 7364; Gaz. vol. 154; p. 1247.
Type-writing-machine ribbon mechanism. C. Gabrielson. No. 958,388; May 17; Sp. p. 4345; Gaz. vol. 154; p. 709.
Type-writing-machine ribbon-reversing mechanism, Automatic. G. M. Kitzmiller. No. 959,945; May 31; Sp. p. 7625; Gaz. vol. 154; p. 1286.
Type-writing-machine supporting-frame. C. D. Rice. No. 948,826; Feb. 8; Sp. p. 2225; Gaz. vol. 151; p. 377.
Type-writing-machine tabulating device. F. Alexander. No. 959,832; May 31; Sp. p. 7362; Gaz. vol. 154; p. 1246.
Type-writing-machine tabulator. W. E. Mark. No. 946,245; Jan. 11; Sp. p. 2720; Gaz. vol. 150; p. 452.
Type-writing-machine tabulator. T. L. Knapp. No. 965,530; July 26; Sp. p. 5486; Gaz. vol. 156; p. 934.
Type-writing-machine tray attachment. I. H. Mallin. No. 953,851; Apr. 5; Sp. p. 343; Gaz. vol. 153; p. 61.
Type-writing-machine type-bar. A. Schneeloch. No. 950,543; Mar. 1; Sp. p. 169; Gaz. vol. 152; p. 28.
Type-writing machines, Autographic-register stand for. E. J. Barker. No. 971,877; Oct. 4; Sp. p. 777; Gaz. vol. 159; p. 135.
Type-writing machines, Calculating attachment for. E. C. Walter. No. 963,727; July 5; Sp. p. 1533; Gaz. vol. 156; p. 239.
Type-writing machines, Platen-brake for. C. Gabrielson and F. C. Stanley. No. 961,767; June 21; Sp. p. 3161; Gaz. vol. 155; p. 567.
Type-writing machines, Ratchet mechanism for ribbons of. J. C. Doane. No. 962,133; June 21; Sp. p. 3977; Gaz. vol. 155; p. 691.
Type-writing machines, &c., Time-controlling mechanism for. C. D. Rice and L. D. Broughton. No. 977,130; Nov. 29; Sp. p. 6749; Gaz. vol. 160; p. 1149.
Type-writing machines, Type-bar bearing for. E. G. Latta and M. E. Herrmann. No. 977,201; Nov. 29; Sp. p. 6913; Gaz. vol. 160; p. 1174.
Type-writing stand. C. E. Goulding. No. 946,218; Jan. 11; Sp. p. 2650; Gaz. vol. 150; p. 441.
Types and type-bars, Machine for making. F. H. Richards. No. 957,904; May 17; Sp. p. 2979; Gaz. vol. 154; p. 538.
Typographic form. F. H. Richards. No. 976,919; Nov. 29; Sp. p. 6254; Gaz. vol. 160; p. 1075.
Typographical machines, Means for producing tabular matter in. C. Muehleisen, G. Molkenthin, and L. Leidenberg. No. 968,490; Aug. 23; Sp. p. 5630; Gaz. vol. 157; p. 972.
Ullage-rod. W. L. Dinsmoor. No. 946,695; Jan. 18; Sp. p. 3759; Gaz. vol. 150; p. 629.
Ullage-rod. E. S. Mackoy. No. 962,035; June 21; Sp. p. 3736; Gaz. vol. 155; p. 656.
Ultramarines, Apparatus for manufacturing artificial. J. Luciani. No. 968,172; Aug. 23; Sp. p. 4996; Gaz. vol. 157; p. 861.
Umbrella. G. K. Garrett. No. 946,121; Jan. 11; Sp. p. 2443; Gaz. vol. 150; p. 407.
Umbrella. G. K. Garrett. No. 946,122; Jan. 11; Sp. p. 2445; Gaz. vol. 150; p. 407.
Umbrella. F. Benz, Sr. No. 947,671; Jan. 25; Sp. p. 5933; Gaz. vol. 150; p. 986.
Umbrella. E. F. Brunello. No. 952,504; Mar. 22; Sp. p. 4129; Gaz. vol. 152; p. 760.
Umbrella. F. D. Philp. No. 952,630; Mar. 22; Sp. p. 4420; Gaz. vol. 152; p. 806.
Umbrella. R. L. and T. Susemihl. No. 954,357; Apr. 5; Sp. p. 1402; Gaz. vol. 153; p. 233.
Umbrella. W. Edwards. No. 959,127; May 24; Sp. p. 5885; Gaz. vol. 154; p. 986.
Umbrella. A. Peck. No. 960,038; May 31; Sp. p. 7862; Gaz. vol. 154; p. 1320.
Umbrella. K. Connors. No. 962,318; June 21; Sp. p. 4367; Gaz. vol. 155; p. 753.
Umbrella. W. Durand. No. 963,753; July 12; Sp. p. 1609; Gaz. vol. 156; p. 271.
Umbrella. E. Hugendubel. No. 965,818; July 26; Sp. p. 6097; Gaz. vol. 156; p. 1034.
Umbrella. T. M. Sura. No. 970,663; Sept. 20; Sp. p. 3259; Gaz. vol. 158; p. 562.
Umbrella. F. W. Schroeder. No. 973,222; Oct. 18; Sp. p. 3792; Gaz. vol. 159; p. 648.
Umbrella. F. W. Rotzell. No. 974,437; Nov. 1; Sp. p. 811; Gaz. vol. 160; p. 122.
Umbrella and hat holder. E. De Vrieze. No. 956,308; Apr. 26; Sp. p. 5694; Gaz. vol. 153; p. 991.
Umbrella and parasol. J. Rose. No. 978,213; Dec. 13; Sp. p. 1727; Gaz. vol. 161; p. 303.
Umbrella attachment. G. D. Cory. No. 971,173; Sept. 27; Sp. p. 4340; Gaz. vol. 158; p. 761.
Umbrella attachment. G. D. Corey. No. 976,638; Nov. 22; Sp. p. 5642; Gaz. vol. 160; p. 954.

Umbrella-carrier. G. V. Humma and C. M. Hafer. No. 975,430; Nov. 15; Sp. p. 3025; Gaz. vol. 160; p. 516.
Umbrella, Collapsible. E. R. Shreckengast. No. 961,811; June 21; Sp. p. 3256; Gaz. vol. 155; p. 581.
Umbrella, Convertible cane-. M. Bearman. No. 979,122; Dec. 20; Sp. p. 3715; Gaz. vol. 161; p. 643.
Umbrella-cover, Detachable. L. S. Birdsall. No. 975,203; Nov. 8; Sp. p. 2557; Gaz. vol. 160; p. 413.
Umbrella-cover, Removable. L. O. Barr. No. 973,100; Oct. 18; Sp. p. 3502; Gaz. vol. 159; p. 605.
Umbrella drip-cup. J. T. Bluff. No. 976,032; Nov. 15; Sp. p. 4252; Gaz. vol. 160; p. 721.
Umbrella, Foldable. J. V. Baird. No. 951,898; Mar. 15; Sp. p. 2935; Gaz. vol. 152; p. 531.
Umbrella, Folding. J. M. Minteer. No. 945,042; Jan. 4; Sp. p. 69; Gaz. vol. 150 p. 13.
Umbrella, Folding. J. and F. F. Solomon. No. 949,554; Feb. 15; Sp. p. 3718; Gaz. vol. 151; p. 647.
Umbrella, Folding. C. H. Ely. No. 949,759; Feb. 22; Sp. p. 4137; Gaz. vol. 151; p. 748.
Umbrella, Folding. F. P. Miller. No. 950,337; Feb. 22; Sp. p. 5418; Gaz. vol. 151; p. 950.
Umbrella, Folding. R. E. Savery. No. 950,458; Feb. 22; Sp. p. 5628; Gaz. vol. 151; p. 987.
Umbrella, Folding. W. L. Mills and F. F. Gerhard. No. 956,396; Apr. 26; Sp. p. 5872; Gaz. vol. 153; p. 1021.
Umbrella, Folding. C. F. Miller. No. 956,716; May 3; Sp. p. 465; Gaz. vol. 154; p. 75.
Umbrella, Folding. G. V. Bratzel. No. 957,734; May 10; Sp. p. 2612; Gaz. vol. 154; p. 452.
Umbrella, Folding. O. K. Andrews. No. 958,714; May 24; Sp. p. 4982; Gaz. vol. 154; p. 843.
Umbrella, Folding. P. Pezzene. No. 959,383; May 24; Sp. p. 6401; Gaz. vol. 154; p. 1070.
Umbrella, Folding. J. Peterson and J. G. Callaway. No. 959,962; May 31; Sp. p. 7663; Gaz. vol. 154; p. 1292.
Umbrella, Folding. T. J. Kennedy. No. 961,700; June 14; Sp. p. 2999; Gaz. vol. 155; p. 520.
Umbrella, Folding. F. F. White. No. 961,707; June 14; Sp. p. 3020; Gaz. vol. 155; p. 523.
Umbrella, Folding. B. G. Fearnow. No. 962,328; June 21; Sp. p. 4383; Gaz. vol. 155; p. 757.
Umbrella, Folding. O. E. Walton. No. 962,539; June 28; Sp. p. 4861; Gaz. vol. 155; p. 855.
Umbrella, Folding. H. Helgerson. No. 963,003; June 28; Sp. p. 5789; Gaz. vol. 155; p. 1013.
Umbrella, Folding. E. H. Newmeyer. No. 963,634; July 5; Sp. p. 1349; Gaz. vol. 156; p. 209.
Umbrella, Folding. G. W. Woollett. No. 973,155; Oct. 18; Sp. p. 3632; Gaz. vol. 159; p. 625.
Umbrella, Folding. F. Pokorny. No. 973,207; Oct. 18; Sp. p. 3765; Gaz. vol. 159; p. 643.
Umbrella, Folding. S. J. Clark. No. 973,406; Oct. 18; Sp. p. 4179; Gaz. vol. 159; p. 712.
Umbrella, Folding. G. Carlson. No. 974,643; Nov. 1; Sp. p. 1287; Gaz. vol. 160; p. 198.
Umbrella, Folding. J. W. Olsson. No. 974,811; Nov. 8; Sp. p. 1655; Gaz. vol. 160; p. 277.
Umbrella, Folding. A. R. Colgrove. No. 975,211; Nov. 8; Sp. p. 2580; Gaz. vol. 160; p. 416.
Umbrella-frame. L. H. Carter. No. 947,790; Feb. 1; Sp. p. 26; Gaz. vol. 151; p. 7.
Umbrella, hat, or like support. E. C. Leonard. No. 946,377; Jan. 11; Sp. p. 3097; Gaz. vol. 150; p. 497.
Umbrella-holder. S. A. Reithmiller. No. 959,072; May 24; Sp. p. 5780; Gaz. vol. 154; p. 968.
Umbrella-holder lock. C. F. Wilson and J. H. Harman. No. 960,131; May 31; Sp. p. 8033; Gaz. vol. 154; p. 1349.
Umbrella-holder, Self-adjusting. J. E. Bell. No. 975,500; Nov. 15; Sp. p. 3169; Gaz. vol. 160; p. 540.
Umbrella-lock. C. H. Sheen. No. 949,809; Feb. 22; Sp. p. 4245; Gaz. vol. 151; p. 766.
Umbrella-notch-making machine. J. B. Riehl. No. 953,232; Mar. 29; Sp. p. 5703; Gaz. vol. 152; p. 1035.
Umbrella-notch-making machine. J. B. Riehl. No. 953,295; Mar. 29; Sp. p. 5842; Gaz. vol. 152; p. 1055.
Umbrella or parasol. M. Perell. No. 965,652; July 26; Sp. p. 5748; Gaz. vol. 156; p. 978.
Umbrella or parasol, Folding. J. J. Daniels. No. 973,859; Oct. 25; Sp. p. 5129; Gaz. vol. 159; p. 891.
Umbrella part. F. Wetteroth. No. 957,527; May 10; Sp. p. 2203; Gaz. vol. 154; p. 381.
Umbrella-receptacle for cars. M. Colonna. No. 958,096; May 17; Sp. p. 3601; Gaz. vol. 154; p. 607.
Umbrella rib and stretcher joint. M. H. Hartzell. No. 950,913; Mar. 1; Sp. p. 947; Gaz. vol. 152; p. 151.
Umbrella-runner. F. Wetteroth. No. 956,657; May 3; Sp. p. 327; Gaz. vol. 154; p. 53.
Umbrella-runner. G. F. Hall. No. 960,169; May 31; Sp. p. 8099; Gaz. vol. 154; p. 1362.
Umbrella-stand. K. Detzner. No. 971,977; Oct. 4; Sp. p. 1040; Gaz. vol. 159; p. 173.
Umbrella stick and spring. E. Schumacher. No. 968,270; Aug. 23; Sp. p. 5202; Gaz. vol. 157; p. 895.
Umbrella stretcher and rib joint. M. H. Hartzell. No. 962,215; June 21; Sp. p. 4141; Gaz. vol. 155; p. 719.
Umbrella-support. A. E. Shuster. No. 967,253; Aug. 16; Sp. p. 3051; Gaz. vol. 157; p. 529.
Umbrella-support. A. Pranke. No. 970,751; Sept. 20; Sp. p. 3462; Gaz. vol. 158; p. 593.
Umbrella-tip retainer. C. Dilli. No. 955,255; Apr. 19; Sp. p. 3372; Gaz. vol. 153; p. 601.
Umbrella top-notcher. F. Wetteroth. No. 958,341; May 17; Sp. p. 4251; Gaz. vol. 154; p. 693.
Umbrellas and parasols, Notch or runner-head for. J. B. Riehl. No. 979,561; Dec. 27; Sp. p. 4636; Gaz. vol. 161; p. 814.
Umbrellas, canes, and the like, Lock for. P. R. Gilbert. No. 977,612; Dec. 6; Sp. p. 446; Gaz. vol. 161; p. 66.
Umbrellas, canes, &c., Box for. W. H. Beehler. No. 963,351; July 5; Sp. p. 777; Gaz. vol. 156; p. 114.
Uncoupling device. H. T. Krakau. No. 947,243; Jan. 25; Sp. p. 4932; Gaz. vol. 150; p. 840.
Uncoupling device. J. B. Moyet and H. Bouvier. No. 956,400; Apr. 26; Sp. p. 5880; Gaz. vol. 153; p. 1022.
Under bit and reamer. J. C. Swan. No. 973,993; Oct. 25; Sp. p. 5409; Gaz. vol. 159; p. 938.
Underclothing. C. M. Begley. No. 959,196; May 24; Sp. p. 6032; Gaz. vol. 154; p. 1008.
Undercutter-support. W. J. Whitworth. No. 948,836; Feb. 8; Sp. p. 2242; Gaz. vol. 151; p. 380.
Undergarment. G. S. Marville. No. 957,893; May 17; Sp. p. 2958; Gaz. vol. 154; p. 535.
Undergarment. C. S. Rogers. No. 964,697; July 19; Sp. p. 3740; Gaz. vol. 156; p. 621.
Undergarment. W. W. Bewsic. No. 971,659; Oct. 4; Sp. p. 310; Gaz. vol. 159; p. 56.
Undergarment. H. Goolsby. No. 974,787; Nov. 8; Sp. p. 1608; Gaz. vol. 160; p. 270.
Undergarment, Combination-. L. M. Kugel. No. 946,142; Jan. 11; Sp. p. 2481; Gaz. vol. 150; p. 414.
Undergarment for women. M. Millard. No. 957,360; May 10; Sp. p. 1866; Gaz. vol. 154; p. 325.
Undergarment-support. O. Johnsen. No. 945,545; Jan. 4; Sp. p. 1161; Gaz. vol. 150; p. 180.
Underreamer. J. C. Swan. No. 979,106; Dec. 20; Sp. p. 3665; Gaz. vol. 161; p. 636.
Unicycle. A. G. Jackulvis. No. 948,859; Feb. 8; Sp. p. 2280; Gaz. vol. 151; p. 387.
Union. W. H. Stoddard. No. 966,870; Aug. 9; Sp. p. 2248; Gaz. vol. 157; p. 370.
Universal coupling. H. Lentz. No. 949,189; Feb. 15; Sp. p. 2960; Gaz. vol. 151; p. 524.
Universal joint. H. Quinby. No. 945,803; Jan. 11; Sp. p. 1764; Gaz. vol. 150; p. 296.
Universal joint. G. R. Long and C. A. Austin. No. 947,751; Jan. 25; Sp. p. 6067; Gaz. vol. 150; p. 1012.
Universal joint. C. L. Cummings. No. 950,094; Feb. 22; Sp. p. 4923; Gaz. vol. 151; p. 866.
Universal joint. P. H. Breed. No. 952,413; Mar. 15; Sp. p. 3925; Gaz. vol. 152; p. 702.
Universal joint. T. F. Timby. No. 954,228; Apr. 5; Sp. p. 1143; Gaz. vol. 153; p. 190.
Universal joint. A. H. Fetzer. No. 955,256; Apr. 19; Sp. p. 3375; Gaz. vol. 153; p. 601.
Universal joint. L. Schwitzer. No. 956,191; Apr. 26; Sp. p. 5438; Gaz. vol. 153; p. 952.
Universal joint. A. H. Fetzer. No. 959,129; May 24; Sp. p. 5890; Gaz. vol. 154; p. 987.
Universal joint. L. M. Hosea. No. 960,327; June 7; Sp. p. 174; Gaz. vol. 155; p. 32.
Universal joint. S. C. Moorhead. No. 961,634; June 14; Sp. p. 2882; Gaz. vol. 155; p. 498.
Universal joint. C. A. Smith. No. 972,270; Oct. 11; Sp. p. 1656; Gaz. vol. 159; p. 291.
Universal joint, Flexible. P. A. Kingston and B. Berg. No. 955,595; Apr. 19; Sp. p. 4108; Gaz. vol. 153; p. 715.
Universal joint, Incased. C. W. Spicer. No. 958,023; May 17; Sp. p. 3338; Gaz. vol. 154; p. 581.
Unloading apparatus. F. S. Snyder and A. F. Burt. No. 946,282; Jan. 11; Sp. p. 2795; Gaz. vol. 150; p. 465.
Unloading apparatus. B. Bertke. No. 961,336; June 14; Sp. p. 2264; Gaz. vol. 155; p. 400.
Unrolling device. S. W. Wardwell and C. Ryden. No. 956,457; Apr. 26; Sp. p. 6004; Gaz. vol. 153; p. 1042.
Upholstered chair. P. G. A. Bode. No. 958,356; May 17; Sp. p. 4285; Gaz. vol. 154; p. 699.
Upholstering device. B. E. Kipp. No. 953,470; Mar. 29; Sp. p. 6222; Gaz. vol. 152; p. 1116.
Upper-hanger. D. T. French. No. 951,500; Mar. 8; Sp. p. 2117; Gaz. vol. 152; p. 366.
Upper-hanger. D. T. French. No. 956,069; Apr. 26; Sp. p. 5158; Gaz. vol. 153; p. 909.
Upsetting-machine. D. R. Ward. No. 959,184; May 24; Sp. p. 6007; Gaz. vol. 154; p. 1004.
Urao, Refining. N. Wrinkle and R. G. Paddock. No. 959,678; May 31; Sp. p. 7033; Gaz. vol. 154; p. 1194.
Urea of the anthraquinone series and making same. A. Schmidt and G. Kränzlein. No. 958,325; May 17; Sp. p. 4218; Gaz. vol. 154; p. 689.
Urinal. W. A. Baker and F. W. Gros Claude. No. 945,837; Jan. 11; Sp. p. 1857; Gaz. vol. 150; p. 310.
Urinal. W. J. J. Bowman. No. 946,851; Jan. 18; Sp. p. 4127; Gaz. vol. 150; p. 683.
Urinal. E. E. Palmer. No. 947,082; Jan. 18; Sp. p. 4601; Gaz. vol. 150; p. 760.
Urinal. D. R. Walsh. No. 955,485; Apr. 19; Sp. p. 3854; Gaz. vol. 153; p. 678.
Urinal. N. Frost. No. 966,189; Aug. 2; Sp. p. 746; Gaz. vol. 157; p. 118.

Alphabetical list of inventions—Continued.

Urinal, Female. W. S. Ross. No. 977,903; Dec. 6; Sp. p. 1050; Gaz. vol. 161; p. 166.
Urinal-slab. F. F. Rowell. No. 963,472; July 5; Sp. p. 1019; Gaz. vol. 156; p. 154.
Urinal-stall. D. J. Cable. No. 950,657; Mar. 1; Sp. p. 418; Gaz. vol. 152; p. 68.
Urinal-stall. W. E. Hinsdale. No. 974,145; Nov. 1; Sp. p. 76; Gaz. vol. 160; p. 15.
Urinal-ventilating device. D. A. Ebinger. No. 966,535; Aug. 9; Sp. p. 1514; Gaz. vol. 157; p. 259.
Urinals, &c., Ventilating-fitting for. J. M. Young. No. 954,558; Apr. 12; Sp. p. 1843; Gaz. vol. 153; p. 329.
Urn, Coffee and water. J. S. Langworthy. No. 964,029; July 12; Sp. p. 2212; Gaz. vol. 156; p. 364.
Utensil and handle. L. S. Lachman. No. 945,554; Jan. 4; Sp. p. 1187; Gaz. vol. 150; p. 183.
Utensil-support. F. Kuhn. No. 964,655; July 19; Sp. p. 3542; Gaz. vol. 156; p. 606.
Vacuum and flushing apparatus. D. Rodreick. No. 947,189; Jan. 18; Sp. p. 4808; Gaz. vol. 150; p. 793.
Vacuum apparatus. E. P. Noyes. No. 979,788; Dec. 27; Sp. p. 5130; Gaz. vol. 161; p. 892.
Vacuum-cleaner. R. B. Hutchinson. No. 946,801; Jan. 18; Sp. p. 4016; Gaz. vol. 150; p. 666.
Vacuum-cleaner. J. C. Luden. No. 950,072; Feb. 22; Sp. p. 4875; Gaz. vol. 151; p. 858.
Vacuum-cleaner. R. B. Hutchison. No. 956,100; Apr. 26; Sp. p. 5227; Gaz. vol. 153; p. 919.
Vacuum-cleaner. G. S. Bennett. No. 956,148; Apr. 26; Sp. p. 5330; Gaz. vol. 153; p. 936.
Vacuum-cleaner. C. B. Foster and W. W. Glidden. No. 959,729; May 31; Sp. p. 7132; Gaz. vol. 154; p. 1211.
Vacuum-cleaner. E. Ericsson and E. G. Thoreen. No. 963,701; July 5; Sp. p. 1482; Gaz. vol. 156; p. 230.
Vacuum-cleaner. G. Backer. No. 969,441; Sept. 6; Sp. p. 611; Gaz. vol. 158; p. 97.
Vacuum-cleaner. W. H. Rakestraw. No. 971,215; Sept. 27; Sp. p. 4428; Gaz. vol. 158; p. 776.
Vacuum-cleaner. A. E. Clifton and W. W. Preston. No. 971,595; Oct. 4; Sp. p. 183; Gaz. vol. 159; p. 33.
Vacuum-cleaner. I. Nielsen. No. 973,292; Oct. 18; Sp. p. 3929; Gaz. vol. 159; p. 672.
Vacuum-cleaner. J. A. Forney. No. 975,028; Nov. 8; Sp. p. 2167; Gaz. vol. 160; p. 353.
Vacuum-cleaner cover. T. Wiedemann and J. H. Templin. No. 967,696; Aug. 16; Sp. p. 3943; Gaz. vol. 157; p. 677.
Vacuum-cleaner, Hand. J. S. Thurman. No. 956,452; Apr. 26; Sp. p. 5993; Gaz. vol. 153; p. 1040.
Vacuum-cleaner, Hand. C. G. Hutchinson. No. 971,044; Sept. 27; Sp. p. 4063; Gaz. vol. 158; p. 719.
Vacuum-cleaner, Portable. C. W. Kelsey. No. 978,167; Dec. 13; Sp. p. 1629; Gaz. vol. 161; p. 288.
Vacuum-cleaners, Dust-collector for. F. W. Smith, Jr. No. 971,013; Sept. 20; Sp. p. 3973; Gaz. vol. 158; p. 680.
Vacuum cleaning apparatus. H. E. Fanshawe. No. 954,726; Apr. 12; Sp. p. 2228; Gaz. vol. 153; p. 387.
Vacuum cleaning apparatus. H. E. Fanshawe. No. 955,118; Apr. 12; Sp. p. 3060; Gaz. vol. 153; p. 519.
Vacuum cleaning apparatus. A. F. Krause. No. 955,810; Apr. 19; Sp. p. 4562; Gaz. vol. 153; p. 788.
Vacuum cleaning apparatus. E. W. Pierce. No. 963,723; July 5; Sp. p. 1523; Gaz. vol. 156; p. 237.
Vacuum cleaning apparatus. T. Wiedemann and J. H. Templin. No. 965,783; July 26; Sp. p. 6018; Gaz. vol. 156; p. 1022.
Vacuum cleaning apparatus. W. H. Jakway. No. 970,232; Sept. 13; Sp. p. 2342; Gaz. vol. 158; p. 395.
Vacuum cleaning apparatus. F. J. Matchette, R. Raddatz, and C. Moukos. No. 974,286; Nov. 1; Sp. p. 468; Gaz. vol. 160; p. 69.
Vacuum cleaning apparatus. F. B. Cochran. No. 975,396; Nov. 15; Sp. p. 2965; Gaz. vol. 160; p. 503.
Vacuum cleaning apparatus. H. G. Kotten. No. 975,435; Nov. 15; Sp. p. 3034; Gaz. vol. 160; p. 518.
Vacuum cleaning apparatus. L. R. Roberts. No. 978,649; Dec. 13; Sp. p. 2683; Gaz. vol. 161; p. 456.
Vacuum cleaning apparatus. L. W. Serrell. No. 979,210; Dec. 20; Sp. p. 3095; Gaz. vol. 161; p. 674.
Vacuum cleaning apparatus, Single-tank. J. S. Thurman. No. 956,231; Apr. 26; Sp. p. 5533; Gaz. vol. 153; p. 965.
Vacuum cleaning device. J. N. Whitehouse. No. 946,832; Jan. 18; Sp. p. 4090; Gaz. vol. 150; p. 676.
Vacuum cleaning device, Portable. J. Gardner. No. 952,244; Mar. 15; Sp. p. 3589; Gaz. vol. 152; p. 646.
Vacuum cleaning systems, Suction-head for. J. S. Thurman. No. 956,451; Apr. 26; Sp. p. 5992; Gaz. vol. 153; p. 1040.
Vacuum cleaning-tool. H. A. Fergusson. No. 978,869; Dec. 20; Sp. p. 3108; Gaz. vol. 161; p. 551.
Vacuum dust-remover. C. B. Foster and W. W. Glidden. No. 977,380; Nov. 29; Sp. p. 7276; Gaz. vol. 160; p. 1235.
Vacuum-pan. F. Tiemann. No. 955,483; Apr. 19; Sp. p. 3849; Gaz. vol. 153; p. 677.
Vacuum-pan. G. S. Baker. No. 956,508; May 3; Sp. p. 5; Gaz. vol. 154; p. 3.
Vacuum-pan apparatus. J. A. Groshon. No. 963,759; July 12; Sp. p. 1617; Gaz. vol. 156; p. 272.
Vacuum-producing apparatus. L. W. Serrell. No. 950,495; Mar. 1; Sp. p. 69; Gaz. vol. 152; p. 13.
Vacuum-producing apparatus. L. W. Serrell. No. 965,025; July 19; Sp. p. 4386; Gaz. vol. 156; p. 732.
Vacuum-producing device. S. D. Clark and C. F. Bartell. No. 973,405; Oct. 18; Sp. p. 4178; Gaz. vol. 159; p. 712.
Vacuum resistance-furnace. A. O. Appelberg. No. 953,774; Apr. 5; Sp. p. 182; Gaz. vol. 153; p. 34.
Vacuum supporting device. F. P. Schroeder. No. 957,804; May 10; Sp. p. 2766; Gaz. vol. 154; p. 474.
Vacuum supporting device. J. E. Corbin. No. 979,436; Dec. 27; Sp. p. 4352; Gaz. vol. 161; p. 771.
Vacuum-sweeper. R. Gober. No. 971,743; Oct. 4; Sp. p. 493; Gaz. vol. 159; p. 85.
Vacuum-sweeper. F. J. Quist and M. Blanch. No. 976,494; Nov. 22; Sp. p. 5340; Gaz. vol. 160; p. 905.
Vacuum-trap. O. Winter. No. 955,374; Apr. 19; Sp. p. 3626; Gaz. vol. 153; p. 639.
Vacuum-trap. L. P. Strong. No. 957,269; May 10; Sp. p. 1678; Gaz. vol. 154; p. 294.
Vacuum-tube, Monopolar. F. A. Davis. No. 950,842; Mar. 1; Sp. p. 814; Gaz. vol. 152; p. 130.
Vacuum-tubes, Fixture and reflector for. D. M. Moore. No. 955,895; Apr. 26; Sp. p. 4795; Gaz. vol. 153; p. 848.
Valise. C. Krueger. No. 965,469; July 26; Sp. p. 5336; Gaz. vol. 156; p. 913.
Valise-locking device. D. Stamey. No. 976,706; Nov. 22; Sp. p. 5762; Gaz. vol. 160; p. 976.
Valve. E. P. Allen. No. 945,433; Jan. 4; Sp. p. 923; Gaz. vol. 150; p. 144.
Valve. J. P. Lavigne. No. 945,556; Jan. 4; Sp. p. 1192; Gaz. vol. 150; p. 184.
Valve. J. Rothchild. No. 946,877; Jan. 18; Sp. p. 4203; Gaz. vol. 150; p. 692.
Valve. T. R. Sundberg. No. 947,463; Jan. 25; Sp. p. 5477; Gaz. vol. 150; p. 915.
Valve. G. B. Kennington. No. 948,452; Feb. 8; Sp. p. 1409; Gaz. vol. 151; p. 251.
Valve. C. W. A. Koelkebeck. No. 948,649; Feb. 8; Sp. p. 1844; Gaz. vol. 151; p. 317.
Valve. C. F. Brand. No. 949,056; Feb. 15; Sp. p. 2697; Gaz. vol. 151; p. 480.
Valve. C. E. Davey. No. 949,115; Feb. 15; Sp. p. 2816; Gaz. vol. 151; p. 498.
Valve. T. Andrews. No. 949,168; Feb. 15; Sp. p. 2916; Gaz. vol. 151; p. 517.
Valve. C. R. Ballard. No. 949,208; Feb. 15; Sp. p. 2990; Gaz. vol. 151; p. 530.
Valve. J. Rothchild. No. 949,635; Feb. 15; Sp. p. 3864; Gaz. vol. 151; p. 674.
Valve. W. S. Brown. No. 949,697; Feb. 15; Sp. p. 3975; Gaz. vol. 151; p. 693.
Valve. J. A. Staples. No. 949,851; Feb. 22; Sp. p. 4330; Gaz. vol. 151; p. 780.
Valve. J. A. Staples. No. 949,852; Feb. 22; Sp. p. 4337; Gaz. vol. 151; p. 780.
Valve. O. E. Hunt. No. 949,899; Feb. 22; Sp. p. 4467; Gaz. vol. 151; p. 798.
Valve. C. E. Drown. No. 950,204; Feb. 22; Sp. p. 5155; Gaz. vol. 151; p. 904.
Valve. H. T. Fischer. No. 950,383; Feb. 22; Sp. p. 5500; Gaz. vol. 151; p. 963.
Valve. E. T. Slough. No. 950,464; Feb. 22; Sp. p. 5647; Gaz. vol. 151; p. 990.
Valve. R. I. Hilliard. No. 950,533; Mar. 1; Sp. p. 151; Gaz. vol. 152; p. 25.
Valve. W. Volkhardt. No. 950,829; Mar. 1; Sp. p. 793; Gaz. vol. 152; p. 126.
Valve. P. A. Gstalder. No. 951,392; Mar. 8; Sp. p. 1901; Gaz. vol. 152; p. 331.
Valve. G. B. Moore. No. 951,407; Mar. 8; Sp. p. 1935; Gaz. vol. 152; p. 335.
Valve. E. W. Hoyt. No. 952,043; Mar. 15; Sp. p. 3217; Gaz. vol. 152; p. 579.
Valve. J. A. Donnelly. No. 952,187; Mar. 15; Sp. p. 3474; Gaz. vol. 152; p. 625.
Valve. H. M. Hillegass. No. 952,523; Mar. 22; Sp. p. 4169; Gaz. vol. 152; p. 767.
Valve. J. G. Talmage. No. 952,691; Mar. 22; Sp. p. 4550; Gaz. vol. 152; p. 827.
Valve. N. H. Suren. No. 952,768; Mar. 22; Sp. p. 4723; Gaz. vol. 152; p. 852.
Valve. W. Nelson and C. O. Churchill. No. 953,100; Mar. 29; Sp. p. 5420; Gaz. vol. 152; p. 993.
Valve. J. A. Carr and R. Livingston. No. 953,370; Mar. 29; Sp. p. 6016; Gaz. vol. 152; p. 1081.
Valve. J. D. Walsh. No. 953,650; Mar. 29; Sp. p. 6605; Gaz. vol. 152; p. 1179.
Valve. S. A. Biggers. No. 953,683; Apr. 5; Sp. p. 9; Gaz. vol. 153; p. 4.
Valve. J. B. Beam. No. 953,940; Apr. 5; Sp. p. 508; Gaz. vol. 153; p. 92.
Valve. G. Dalén. No. 954,172; Apr. 5; Sp. p. 1012; Gaz. vol. 153; p. 172.
Valve. J. D. Twiggs, Jr. No. 955,018; Apr. 12; Sp. p. 2888; Gaz. vol. 153; p. 489.
Valve. E. H. Barr and C. Wainwright. No. 955,043; Apr. 12; Sp. p. 2930; Gaz. vol. 153; p. 496.
Valve. J. E. Hill. No. 955,158; Apr. 19; Sp. p. 3153; Gaz. vol. 153; p. 566.
Valve. J. Levey. No. 955,600; Apr. 19; Sp. p. 4119; Gaz. vol. 153; p. 717.

Valve. T. Galvin. No. 955,859; Apr. 26; Sp. p. 4697; Gaz. vol. 153; p. 835.
Valve. B. A. Geurink. No. 955,862; Apr. 26; Sp. p. 4706; Gaz. vol. 153; p. 836.
Valve. S. Davis. No. 955,948; Apr. 26; Sp. p. 4890; Gaz. vol. 153; p. 865.
Valve. H. C. Kinnison. No. 956,365; Apr. 26; Sp. p. 5810; Gaz. vol. 153; p. 1010.
Valve. F. Leadbeater. No. 956,811; May 3; Sp. p. 675; Gaz. vol. 154; p. 106.
Valve. J. Stone. No. 957,012; May 3; Sp. p. 1113; Gaz. vol. 154; p. 175.
Valve. C. A. Ellis. No. 957,318; May 10; Sp. p. 1779; Gaz. vol. 154; p. 310.
Valve. E. E. Sweet. No. 957,391; May 10; Sp. p. 1926; Gaz. vol. 154; p. 334.
Valve. E. P. Allen. No. 957,592; May 10; Sp. p. 2315; Gaz. vol. 154; p. 402.
Valve. C. E. Strong. No. 957,811; May 10; Sp. p. 2777; Gaz. vol. 154; p. 476.
Valve. F. Snow. No. 958,021; May 17; Sp. p. 3335; Gaz. vol. 154; p. 580.
Valve. D. E. Washington. No. 958,451; May 17; Sp. p. 4471; Gaz. vol. 154; p. 731.
Valve. J. W. McCown. No. 958,521; May 17; Sp. p. 4608; Gaz. vol. 154; p. 756.
Valve. G. M. Bard. No. 958,716; May 24; Sp. p. 4984; Gaz. vol. 154; p. 844.
Valve. E. D. Jefferson. No. 959,349; May 24; Sp. p. 6336; Gaz. vol. 154; p. 1059.
Valve. S. E. McKnight. No. 959,784; May 31; Sp. p. 7238; Gaz. vol. 154; p. 1229.
Valve. J. A. Deasy. No. 960,280; June 7; Sp. p. 80; Gaz. vol. 155; p. 17.
Valve. M. Warren. No. 960,605; June 7; Sp. p. 743; Gaz. vol. 155; p. 123.
Valve. T. Shade. No. 961,466; June 14; Sp. p. 2524; Gaz. vol. 155; p. 443.
Valve. G. G. Little. No. 961,505; June 14; Sp. p. 2611; Gaz. vol. 155; p. 456.
Valve. C. Walker. No. 961,821; June 21; Sp. p. 3280; Gaz. vol. 155; p. 585.
Valve. T. P. Long. No. 962,368; June 21; Sp. p. 4463; Gaz. vol. 155; p. 769.
Valve. J. G. Nolen. No. 962,660; June 28; Sp. p. 5121; Gaz. vol. 155; p. 895.
Valve. E. A. Lacy and F. C. Williams. No. 962,766; June 28; Sp. p. 5342; Gaz. vol. 155; p. 934.
Valve. C. W. Jones and J. A. Gibson. No. 963,152; July 5; Sp. p. 324; Gaz. vol. 156; p. 45.
Valve. L. W. Eggleston. No. 963,215; July 5; Sp. p. 488; Gaz. vol. 156; p. 67.
Valve. J. Nolan. No. 963,314; July 5; Sp. p. 701; Gaz. vol. 156; p. 100.
Valve. O. E. Oleson. No. 963,385; July 5; Sp. p. 845; Gaz. vol. 156; p. 125.
Valve. F. F. Varlie. No. 963,836; July 12; Sp. p. 1822; Gaz. vol. 156; p. 299.
Valve. S. M. Guss. No. 964,468; July 12; Sp. p. 3095; Gaz. vol. 156; p. 508.
Valve. C. A. Hultquist. No. 964,970; July 19; Sp. p. 4287; Gaz. vol. 156; p. 715.
Valve. C. Walker. No. 965,129; July 19; Sp. p. 4595; Gaz. vol. 156; p. 766.
Valve. E. J. McCarty. No. 966,040; Aug. 2; Sp. p. 424; Gaz. vol. 157; p. 68.
Valve. S. H. Woodridge. No. 966,150; Aug. 2; Sp. p. 651; Gaz. vol. 157; p. 104.
Valve. J. P. Haig and A. H. Porter. No. 966,198; Aug. 2; Sp. p. 765; Gaz. vol. 157; p. 121.
Valve. R. W. Elder. No. 966,390; Aug. 2; Sp. p. 1127; Gaz. vol. 157; p. 182.
Valve. G. E. Kellar. No. 966,754; Aug. 9; Sp. p. 2010; Gaz. vol. 157; p. 334.
Valve. R. Conrader. No. 966,797; Aug. 9; Sp. p. 2093; Gaz. vol. 157; p. 347.
Valve. C. G. Sprado. No. 966,867; Aug. 9; Sp. p. 2243; Gaz. vol. 157; p. 369.
Valve. W. Hallowell. No. 966,909; Aug. 9; Sp. p. 2331; Gaz. vol. 157; p. 383.
Valve. C. C. Palmer. No. 967,659; Aug. 16; Sp. p. 3872; Gaz. vol. 157; p. 665.
Valve. C. F. Siegrist. No. 967,845; Aug. 16; Sp. p. 4252; Gaz. vol. 157; p. 727.
Valve. T. Turner. No. 969,576; Sept. 6; Sp. p. 909; Gaz. vol. 158; p. 144.
Valve. J. F. Jennings. No. 969,874; Sept. 13; Sp. p. 1584; Gaz. vol. 158; p. 272.
Valve. M. H. Owen. No. 970,387; Sept. 13; Sp. p. 2641; Gaz. vol. 158; p. 445.
Valve. W. Corliss. No. 970,469; Sept. 20; Sp. p. 2829; Gaz. vol. 158; p. 494.
Valve. C. F. Siegrist. No. 971,934; Oct. 4; Sp. p. 924; Gaz. vol. 159; p. 157.
Valve. C. A. Claflin. No. 972,336; Oct. 11; Sp. p. 1779; Gaz. vol. 159; p. 313.
Valve. T. R. Beggs. No. 972,430; Oct. 11; Sp. p. 1976; Gaz. vol. 159; p. 347.
Valve. W. B. Burke. No. 972,677; Oct. 11; Sp. p. 2536; Gaz. vol. 159; p. 432.
Valve. O. Schlemmer. No. 973,075; Oct. 18; Sp. p. 3444; Gaz. vol. 159; p. 597.
Valve. W. L. Osborne. No. 973,551; Oct. 25; Sp. p. 4490; Gaz. vol. 159; p. 783.
Valve. G. Schmaal and J. B. Wicks. No. 973,819; Oct. 25; Sp. p. 5044; Gaz. vol. 159; p. 877.
Valve. H. F. Quickel. No. 974,185; Nov. 1; Sp. p. 173; Gaz. vol. 160; p. 30.
Valve. W. L. Hamilton. No. 975,524; Nov. 15; Sp. p. 3227; Gaz. vol. 160; p. 549.
Valve. J. C. Thompson. No. 976,010; Nov. 15; Sp. p. 4218; Gaz. vol. 160; p. 715.
Valve. E. L. Grooms. No. 976,070; Nov. 15; Sp. p. 4327; Gaz. vol. 160; p. 734.
Valve. B. F. Silliman. No. 976,222; Nov. 22; Sp. p. 4706; Gaz. vol. 160; p. 809.
Valve. W. S. Fairhurst. No. 976,449; Nov. 22; Sp. p. 5245; Gaz. vol. 160; p. 890.
Valve. J. Nolan. No. 976,489; Nov. 22; Sp. p. 5331; Gaz. vol. 160; p. 904.
Valve. G. Schuster. No. 976,702; Nov. 22; Sp. p. 5753; Gaz. vol. 160; p. 974.
Valve. J. H. Hulings. No. 976,804; Nov. 22; Sp. p. 5978; Gaz. vol. 160; p. 1010.
Valve. T. F. Payne. No. 976,908; Nov. 29; Sp. p. 6219; Gaz. vol. 160; p. 1070.
Valve. H. Lippold. No. 977,105; Nov. 29; Sp. p. 6694; Gaz. vol. 160; p. 1139.
Valve. W. E. Sloan. No. 977,562; Dec. 6; Sp. p. 340; Gaz. vol. 161; p. 50.
Valve. W. H. Glenn. No. 977,614; Dec. 6; Sp. p. 450; Gaz. vol. 161; p. 67.
Valve. G. Land. No. 977,807; Dec. 6; Sp. p. 846; Gaz. vol. 161; p. 133.
Valve. J. W. Harkom. No. 978,288; Dec. 13; Sp. p. 1893; Gaz. vol. 161; p. 331.
Valve. J. E. Davidson. No. 978,706; Dec. 13; Sp. p. 2788; Gaz. vol. 161; p. 474.
Valve. J. Huebsch. No. 978,752; Dec. 13; Sp. p. 2890; Gaz. vol. 161; p. 489.
Valve. E. O'Malley. No. 978,927; Dec. 20; Sp. p. 3230; Gaz. vol. 161; p. 573.
Valve. E. O'Malley. No. 978,928; Dec. 20; Sp. p. 3234; Gaz. vol. 161; p. 574.
Valve. E. O'Malley. No. 978,929; Dec. 20; Sp. p. 3236; Gaz. vol. 161; p. 574.
Valve. E. O'Malley. No. 978,930; Dec. 20; Sp. p. 3239; Gaz. vol. 161; p. 575.
Valve. F. A. Merrill and J. S. C. Nicholls. No. 979,532; Dec. 27; Sp. p. 4559; Gaz. vol. 161; p. 804.
Valve. A. B. Wallem. No. 979,811; Dec. 27; Sp. p. 5191; Gaz. vol. 161; p. 900.
Valve. F. Messmer, Jr. No. 979,874; Dec. 27; Sp. p. 5327; Gaz. vol. 161; p. 921.
Valve-actuating mechanism for gas-engines. V. W. Potter. No. 951,965; Mar. 15; Sp. p. 3063; Gaz. vol. 152; p. 553.
Valve-actuating rod. G. W. Dunham. No. 970,999; Sept. 20; Sp. p. 3950; Gaz. vol. 158; p. 675.
Valve, Air-. F. H. Sauer. No. 950,627; Mar. 1; Sp. p. 350; Gaz. vol. 152; p. 57.
Valve, Air-. G. Leich. No. 951,822; Mar. 15; Sp. p. 2763; Gaz. vol. 152; p. 505.
Valve, Air-. P. J. Grebel and W. J. Theis. No. 978,579; Dec. 13; Sp. p. 2529; Gaz. vol. 161; p. 431.
Valve, Air-brake protection-. W. V. Turner. No. 971,326; Sept. 27; Sp. p. 4631; Gaz. vol. 158; p. 811.
Valve, Air-brake-release. J. A. Anthony. No. 950,425; Feb. 22; Sp. p. 5579; Gaz. vol. 151; p. 978.
Valve, Air-vent. G. D. Hoffman. No. 967,381; Aug. 16; Sp. p. 3303; Gaz. vol. 157; p. 572.
Valve, Alarm-. H. Vissering. No. 960,742; June 7; Sp. p. 1016; Gaz. vol. 155; p. 171.
Valve alarm attachment, Brake-. E. S. Lewis, Jr. No. 966,694; Aug. 9; Sp. p. 1829; Gaz. vol. 157; p. 312.
Valve and cock. A. Williams. No. 963,842; July 12; Sp. p. 1832; Gaz. vol. 156; p. 301.
Valve and controlling means therefor, Pressure gas-. F. O. H. Fincke. No. 950,150; Feb. 22; Sp. p. 5027; Gaz. vol. 151; p. 884.
Valve and faucet. F. W. Meyer. No. 946,249; Jan. 11; Sp. p. 2728; Gaz. vol. 150; p. 453.
Valve and fire-plug box, Street-. E. Prendergast. No. 945,596; Jan. 4; Sp. p. 1262; Gaz. vol. 150; p. 196.
Valve and meter, Combination. E. J. Moore. No. 958,664; May 17; Sp. p. 4879; Gaz. vol. 154; p. 801.
Valve and oiler, Combined throttle-. L. C. Bayles. No. 965,554; July 26; Sp. p. 5541; Gaz. vol. 156; p. 944.
Valve and operating means therefor, Ball-cock. S. G. Neal and J. M. Childress. No. 948,519; Feb. 8; Sp. p. 1562; Gaz. vol. 151; p. 275.
Valve and reverse gearing for steam-engines. G. J. Clark. No. 946,110; Jan. 11; Sp. p. 2422; Gaz. vol. 150; p. 403.
Valve and the like, Stop-. J. Fletcher. No. 959,728; May 31; Sp. p. 7128; Gaz. vol. 154; p. 1210.
Valve and valve-actuating arrangement of internal-combustion engines. S. I. Parker. No. 964,308; July 12; Sp. p. 2781; Gaz. vol. 156; p. 458.
Valve and valve-gear for internal-combustion engines. G. H. Mann. No. 970,525; Sept. 20; Sp. p. 2951; Gaz. vol. 158; p. 514.

Alphabetical list of inventions—Continued.

Valve and valve-operating mechanism. F. Loedige. No. 978,463; Dec. 13; Sp. p. 2257; Gaz. vol. 161; p. 391.
Valve and waste-cock, Combined safety-. J. P. Fell. No. 956,062; Apr. 26; Sp. p. 5142; Gaz. vol. 153; p. 906.
Valve, Antiscald-. W. H. Dehn. No. 967,339; Aug. 16; Sp. p. 3219; Gaz. vol. 157; p. 558.
Valve arrangement for controlling fluid transmission-gears. H. Lentz. No. 980,106; Dec. 27; Sp. p. 5832; Gaz. vol. 161; p. 998.
Valve arrangement for steam-engines. T. G. Aultman. No. 966,880; Aug. 9; Sp. p. 2276; Gaz. vol. 157; p. 373.
Valve attachment, Flush-. W. F. Geiger. No. 948,876; Feb. 8; Sp. p. 2310; Gaz. vol. 151; p. 393.
Valve, Automatic. W. E. Dixon. No. 953,260; Mar. 29; Sp. p. 5771; Gaz. vol. 152; p. 1045.
Valve, Automatic. A. de Dion and G. Bouton. No. 967,739; Aug. 16; Sp. p. 4047; Gaz. vol. 157; p. 693.
Valve, Automatic, J. B. Perkins. No. 974,424; Nov. 1; Sp. p. 777; Gaz. vol. 160; p. 117.
Valve, Automatic. H. Carlton. No. 975,120; Nov. 8; Sp. p. 2360; Gaz. vol. 160; p. 385.
Valve, Automatic cut-off. J. C. Smith. No. 969,911; Sept. 13; Sp. p. 1656; Gaz. vol. 158; p. 286.
Valve, Automatic cut-off. F. Hodgkinson. No. 978,294; Dec. 13; Sp. p. 1905; Gaz. vol. 161; p. 333.
Valve, Automatic fluid-pressure-retaining. C. W. Hurl. No. 969,479; Sept. 6; Sp. p. 689; Gaz. vol. 158; p. 109.
Valve, Automatic flushing-. A. W. Henkel. No. 945,038; Jan. 4; Sp. p. 62; Gaz. vol. 150; p. 12.
Valve, Automatic gas-. J. Hrivnák and J. Batos. No. 953,506; May 17; Sp. p. 4572; Gaz. vol. 154; p. 750.
Valve, Automatic hose-. L. E. and W. Smith. No. 958,779; May 24; Sp. p. 5141; Gaz. vol. 154; p. 866.
Valve, Automatic pressure-reduction. W. H. Bice. No. 952,410; Mar. 15; Sp. p. 3919; Gaz. vol. 152; p. 701.
Valve, Automatic pressure-reduction. W. H. Bice. No. 962,737; June 28; Sp. p. 5284; Gaz. vol. 155; p. 922.
Valve, Automatic relief-. E. A. Ploeger and J. Penrose. No. 947,187; Jan. 18; Sp. p. 4805; Gaz. vol. 150; p. 792.
Valve, Automatic safety check-. J. C. O'Neill and J. S. Dye. No. 975,153; Nov. 8; Sp. p. 2432; Gaz. vol. 160; p. 395.
Valve, Automatic safety gas-. A. H. Lake, Jr. No. 970,062; Sept. 13; Sp. p. 1988; Gaz. vol. 158; p. 337.
Valve, Automatic safety gas-. H. L. Young. No. 972,975; Oct. 18; Sp. p. 3238; Gaz. vol. 159; p. 563.
Valve, Automatic shut-off. M. H. Farley. No. 948,135; Feb. 1; Sp. p. 730; Gaz. vol. 151; p. 120.
Valve, Automatic shut-off. W. Brennan. No. 955,844; Apr. 26; Sp. p. 4659; Gaz. vol. 153; p. 830.
Valve, Automatic spray-. H. J. Richter. No. 945,867; Jan. 11; Sp. p. 1925; Gaz. vol. 150; p. 320.
Valve, Automatic steam-cut-off. G. W. Collin. No. 972,338; Oct. 11; Sp. p. 1785; Gaz. vol. 159; p. 313.
Valve, Automatically-acting spring flap-. M. F. Gutermuth. No. 978,152; Dec. 13; Sp. p. 1595; Gaz. vol. 161; p. 283.
Valve, Back-pressure. C. C. Neighbors. No. 946,684; Jan. 18; Sp. p. 3742; Gaz. vol. 150; p. 625.
Valve-bag. A. M. Bates. No. 946,318; Jan. 11; Sp. p. 2881; Gaz. vol. 150; p. 478.
Valve, Balanced. C. A. Turner. No. 951,551; Mar. 8; Sp. p. 2216; Gaz. vol. 152; p. 384.
Valve, Ball-. N. English. No. 953,414; Mar. 29; Sp. p. 6107; Gaz. vol. 152; p. 1097.
Valve, Bellows-. G. W. Bemis. No. 945,905; Jan. 11; Sp. p. 2009; Gaz. vol. 150; p. 333.
Valve, Blast-furnace chimney-. A. G. McKee. No. 973,798; Oct. 25; Sp. p. 5002; Gaz. vol. 159; p. 870.
Valve, Blow-off. F. P. Hamilton. No. 972,370; Oct. 11; Sp. p. 1851; Gaz. vol. 159; p. 325.
Valve, Blow-off. H. W. Jacobs. No. 973,663; Oct. 25; Sp. p. 4739; Gaz. vol. 159; p. 823.
Valve, Bottle-filling. R. Littler. No. 976,085; Nov. 15; Sp. p. 4359; Gaz. vol. 160; p. 741.
Valve, Brake-. W. K. Rankin. No. 953,349; Mar. 29; Sp. p. 5960; Gaz. vol. 152; p. 1074.
Valve, Brake-. W. K. Rankin. No. 958,176; May 17; Sp. p. 3766; Gaz. vol. 154; p. 636.
Valve-cage seats, Machine for grinding. F. W. Cooke. No. 950,565; Mar. 1; Sp. p. 219; Gaz. vol. 152; p. 36.
Valve, Carbureter-. N. P. Mader. No. 973,056; Oct. 18; Sp. p. 3410; Gaz. vol. 159; p. 591.
Valve-casing and pipe connection. F. Horn. No. 975,429; Nov. 15; Sp. p. 3024; Gaz. vol. 160; p. 515.
Valve, Cellar-drainer. A. C. Durdin, Jr. No. 972,441; Oct. 11; Sp. p. 1995; Gaz. vol. 159; p. 350.
Valve-chamber for water-columns. F. C. Anderson. No. 957,533; May 10; Sp. p. 2214; Gaz. vol. 154; p. 383.
Valve, Check-. E. P. Gray. No. 965,178; July 26; Sp. p. 4706; Gaz. vol. 156; p. 814.
Valve, Check-. E. H. Heilig. No. 968,559; Aug. 30; Sp. p. 5801; Gaz. vol. 157; p. 1021.
Valve, Check-. H. Hitchcock. No. 975,243; Nov. 8; Sp. p. 2644; Gaz. vol. 160; p. 426.
Valve, Check-. J. Johnson. No. 978,757; Dec. 13; Sp. p. 2901; Gaz. vol. 161; p. 491.
Valve, Clack or flap. M. F. Gutermuth. No. 949,070; Feb. 15; Sp. p. 2722; Gaz. vol. 151; p. 484.
Valve clean-out, Boiler-check-. J. R. Martin. No. 948,702; Feb. 8; Sp. p. 1957; Gaz. vol. 151; p. 336.
Valve, Combination-. W. B. Davis. No. 979,384; Dec. 20; Sp. p. 4239; Gaz. vol. 161; p. 730.
Valve, Combined automatic throttle and stop. R. A. McKee. No. 956,595; May 3; Sp. p. 189; Gaz. vol. 154; p. 32.
Valve, Combined check and gate. J. H. Stickel. No. 961,738; June 14; Sp. p. 3088; Gaz. vol. 155; p. 533.
Valve, Combined manually and automatically actuated. F. C. Ellison. No. 966,672; Aug. 9; Sp. p. 1781; Gaz. vol. 157; p. 305.
Valve construction. A. Benner. No. 968,916; Aug. 30; Sp. p. 6569; Gaz. vol. 157; p. 1144.
Valve-control mechanism, Explosion-engine. N. T. Harrington. No. 962,214; June 21; Sp. p. 4139; Gaz. vol. 155; p. 718.
Valve-controlled device for drawing liquids. G. A. Robinson. No. 976,398; Nov. 22; Sp. p. 5138; Gaz. vol. 160; p. 871.
Valve-controller, Adjustable. E. Schulte. No. 953,766; Apr. 5; Sp. p. 169; Gaz. vol. 153; p. 31.
Valve-controller, Electric. A. T. Wilson. No. 960,757; June 7; Sp. p. 1044; Gaz. vol. 155; p. 176.
Valve-controlling device. I. H. Venn. No. 979,725; Dec. 27; Sp. p. 4985; Gaz. vol. 161; p. 871.
Valve-controlling mechanism. P. L. Wormeley. No. 951,168; Mar. 8; Sp. p. 1424; Gaz. vol. 152; p. 258.
Valve-controlling mechanism. J. M. Roe. No. 951,340; Mar. 8; Sp. p. 1783; Gaz. vol. 152; p. 313.
Valve-controlling mechanism, Internal-combustion-engine. F. J. Miller. No. 962,159; June 21; Sp. p. 4036; Gaz. vol. 155; p. 701.
Valve-controlling mechanism, Thermostatic-. H. Schneider. No. 947,310; Jan. 25; Sp. p. 5121; Gaz. vol. 150; p. 864.
Valve core-box, Globe-. T. Hawthorne. No. 973,504; Oct. 25; Sp. p. 4393; Gaz. vol. 159; p. 768.
Valve, Cut-off. M. D. Menear and C. O. Shay. No. 971,295; Sept. 27; Sp. p. 4575; Gaz. vol. 158; p. 801.
Valve, Cut-off. E. C. Marrs. No. 974,899; Nov. 8; Sp. p. 1852; Gaz. vol. 160; p. 308.
Valve-cutter and valve-seat reamer, Combined. S. M. Trammell. No. 965,049; July 19; Sp. p. 4450; Gaz. vol. 156; p. 741.
Valve, Detector check-. A. Blauvelt. No. 945,151; Jan. 4; Sp. p. 294; Gaz. vol. 150; p. 50.
Valve device. J. Slorach. No. 961,173; June 14; Sp. p. 1883; Gaz. vol. 155; p. 342.
Valve device, Triple-. W. V. Turner. No. 969,427; Sept. 6; Sp. p. 588; Gaz. vol. 158; p. 94.
Valve device, Triple-. W. V. Turner. No. 971,427; Sept. 27; Sp. p. 4635; Gaz. vol. 158; p. 811.
Valve-disk-cutting machine. F. L. Smith and T. B. Williams. No. 980,019; Dec. 27; Sp. p. 5608; Gaz. vol. 161; p. 969.
Valve, Dispensing and measuring. F. A. Osincup. No. 951,511; Mar. 8; Sp. p. 2135; Gaz. vol. 152; p. 370.
Valve, Distributing-. J. Hutchings. No. 965,820; July 26; Sp. p. 6100; Gaz. vol. 156; p. 1035.
Valve, Distributing and reversing expansion. W. M. Coward. No. 957,499; May 10; Sp. p. 2145; Gaz. vol. 154; p. 371.
Valve, Double-seat. W. Nachtigall. No. 967,820; Aug. 16; Sp. p. 4198; Gaz. vol. 157; p. 719.
Valve, Doubly-actuated expansion-. G. P. Carroll. No. 959,458; May 31; Sp. p. 6558; Gaz. vol. 154; p. 1120.
Valve, Draft-arm and other. C. L. Bastian. No. 952,178; Mar. 15; Sp. p. 3458; Gaz. vol. 152; p. 622.
Valve, Drain-. C. Walker. No. 965,772; July 26; Sp. p. 5996; Gaz. vol. 156; p. 1019.
Valve, Dripping-. S. L. Erickson. No. 946,914; Jan. 18; Sp. p. 4293; Gaz. vol. 150; p. 705.
Valve, Electric. F. N. Roehrich. No. 959,609; May 31; Sp. p. 6887; Gaz. vol. 154; p. 1172.
Valve, Electric. L. M. Schmidt. No. 959,618; May 31; Sp. p. 6902; Gaz. vol. 154; p. 1175.
Valve, Electrically-operated. P. A. Brown. No. 971,722; Oct. 4; Sp. p. 445; Gaz. vol. 159; p. 77.
Valve, Electromagnetically-operated. A. Gaudin and E. Tellier. No. 946,344; Jan. 11; Sp. p. 2928; Gaz. vol. 150; p. 486.
Valve, Emergency-. O. Penn. No. 945,586; Jan. 4; Sp. p. 1246; Gaz. vol. 150; p. 193.
Valve, Engine-. A. J. Anderson and G. A. Hanson. No. 959,689; May 31; Sp. p. 7050; Gaz. vol. 154; p. 1197.
Valve, Engine-. J. B. Allfree. No. 960,615; June 7; Sp. p. 773; Gaz. vol. 155; p. 126.
Valve, Engine-. J. B. Allfree. No. 960,616; June 7; Sp. p. 777; Gaz. vol. 155; p. 127.
Valve, Engine-. J. Dillander. No. 966,810; Aug. 9; Sp. p. 2126; Gaz. vol. 157; p. 351.
Valve, Engine-. C. Reeves. No. 974,432; Nov. 1; Sp. p. 803; Gaz. vol. 160; p. 121.
Valve, Engine-. R. Wintzer. No. 976,766; Nov. 22; Sp p. 5906; Gaz. vol. 160; p. 997.
Valve, Engine-. J. Rothchild. No. 979,097; Dec. 20; Sp. p. 3627; Gaz. vol. 161; p. 632.
Valve, Engineer's. W. H. Lieber. No. 952,434; Mar. 15; Sp. p. 3961; Gaz. vol. 152; p. 709.
Valve, Engineer's. W. A. Pendry. No. 959,798; May 31; Sp. p. 7282; Gaz. vol. 154; p. 1234.
Valve, Engineer's. W. A. Pendry. No. 959,799; May 31; Sp. p. 7286; Gaz. vol. 154; p. 1235.

Valve, Engineer's. W. A. Pendry. No. 959,802; May 31; Sp. p. 7298; Gaz. vol. 154; p. 1236.
Valve, Engineer's. H. W. Cheney. No. 961,083; June 7; Sp. p. 1708; Gaz. vol. 155; p. 284.
Valve, Engineer's. J. E. Osmer. No. 978,393; Dec. 13; Sp. p. 2114; Gaz. vol. 161; p. 368.
Valve, Exhaust-muffler cut-out. H. Miller. No. 966,345; Aug. 2; Sp. p. 1034; Gaz. vol. 157; p. 167.
Valve-fitting. J. F. Bernstein. No. 977,261; Nov. 29; Sp. p. 7024; Gaz. vol. 160; p. 1194.
Valve fitting, Compression-. P. Mueller. No. 953,966; Apr. 5; Sp. p. 554; Gaz. vol. 153; p. 100.
Valve fitting, Fuller-. P. Mueller. No. 953,967; Apr. 5; Sp. p. 556; Gaz. vol. 153; p. 100.
Valve, Flap check-. G. Woodall. No. 955,931; Apr. 26; Sp. p. 4860; Gaz. vol. 153; p. 860.
Valve, Float-. T. D. Millea. No. 945,569; Jan. 4; Sp. p. 1211; Gaz. vol. 150; p. 187.
Valve, Float-. C. J. Kirk. No. 947,106; Jan. 18; Sp. p. 4648; Gaz. vol. 150; p. 767.
Valve, Float-. W. T. Rymer. No. 953,235; Mar. 29; Sp. p. 5708; Gaz. vol. 152; p. 1036.
Valve, Float-. J. L. Mayfield. No. 963,305; July 5; Sp. p. 689; Gaz. vol. 156; p. 98.
Valve, Float-. G. Hoffman. No. 966,442; Aug. 9; Sp. p. 1260; Gaz. vol. 157; p. 226.
Valve, Float-controlled. W. S. Bellows. No. 970,167; Sept. 13; Sp. p. 2185; Gaz. vol. 158; p. 372.
Valve, Float-operated. J. S. Welborn. No. 945,254; Jan. 4; Sp. p. 519; Gaz. vol. 150; p. 85.
Valve, Fluid-pressure. J. Fournia. No. 974,872; Nov. 8; Sp. p. 1800; Gaz. vol. 160; p. 299.
Valve, Flush-. P. Grabler. No. 955,961; Apr. 26; Sp. p. 4922; Gaz. vol. 153; p. 870.
Valve, Flush-. J. H. Mahoney. No. 963,231; July 5; Sp. p. 512; Gaz. vol. 156; p. 73.
Valve, Flush-. J. Rothchild. No. 965,946; Aug. 2; Sp. p. 201; Gaz. vol. 157; p. 35.
Valve, Flush-. J. S. Morrissey. No. 968,875; Aug. 30; Sp. p. 6483; Gaz. vol. 157; p. 1129.
Valve, Flushing-. S. W. Lewis. No. 947,183; Jan. 18; Sp. p. 4796; Gaz. vol. 150; p. 790.
Valve, Flushing-. A. N. Pasman. No. 956,158; Apr. 26; Sp. p. 5352; Gaz. vol. 153; p. 940.
Valve, Flushing-. F. W. Bassett and W. A. Hunter, Jr. No. 957,027; May 3; Sp. p. 1145; Gaz. vol. 154; p. 181.
Valve, Flushing-. F. W. Bassett and W. A. Hunter, Jr. No. 957,029; May 3; Sp. p. 1149; Gaz. vol. 154; p. 182.
Valve, Flushing-. C. A. Wulf. No. 966,509; Aug. 9; Sp. p. 1459; Gaz. vol. 157; p. 250.
Valve, Flushing-tank. E. J. Wackerle. No. 954,065; Apr. 5; Sp. p. 768; Gaz. vol. 153; p. 134.
Valve for air-brake mechanism, Triple. F. Y. Dibble. No. 950,375; Feb. 22; Sp. p. 5481; Gaz. vol. 151; p. 960.
Valve for air-brake systems, Regulating-. J. C. Luna. No. 959,022; May 24; Sp. p. 5657; Gaz. vol. 154; p. 950.
Valve for air-brakes, Automatic triple. A. V. Wester. No. 945,654; Jan. 4; Sp. p. 1391; Gaz. vol. 150; p. 217.
Valve for air-brakes, Safety-. T. B. Coyle. No. 967,731; Aug. 16; Sp. p. 4024; Gaz. vol. 157; p. 690.
Valve for air-pipes, Butterfly-. A. Faget. No. 965,999; Aug. 2; Sp. p. 335; Gaz. vol. 157; p. 54.
Valve for ammonia-compressors, Check-. P. Neff, D. Cole, and E. L. Ebersole. No. 967,546; Aug. 16; Sp. p. 3654; Gaz. vol. 157; p. 628.
Valve for blending hot and cold fluids. S. G. Neal. No. 948,520; Feb. 8; Sp. p. 1564; Gaz. vol. 151; p. 275.
Valve for blowers. G. C. Hicks, Jr. No. 975,240; Nov. 8; Sp. p. 2636; Gaz. vol. 160; p. 425.
Valve for carbonated-liquid receptacles. G. Goldberg. No. 965,704; July 26; Sp. p. 5860; Gaz. vol. 156; p. 995.
Valve for carbureters and other apparatus. A. E. England. No. 961,590; June 14; Sp. p. 2797; Gaz. vol. 155; p. 484.
Valve for carbureters, &c., Automatic. M. D. Colbath. No. 954,258; Apr. 5; Sp. p. 1191; Gaz. vol. 153; p. 199.
Valve for charge-forming devices, Auxiliary air-. J. H. Friedenwald. No. 960,084; May 31; Sp. p. 7945; Gaz. vol. 154; p. 1334.
Valve for compound engines, Starting-. W. I. Kovalsky. No. 963,375; July 5; Sp. p. 823; Gaz. vol. 156; p. 121.
Valve for dash-pots, Regulating-. C. Dorn. No. 966,320; Aug. 2; Sp. p. 992; Gaz. vol. 157; p. 160.
Valve for drainage and irrigating systems. E. M. Fowler. No. 961,292; June 14; Sp. p. 2147; Gaz. vol. 155; p. 385.
Valve for elastic-fluid compressors, Discharge-. J. Allan. No. 956,789; May 3; Sp. p. 613; Gaz. vol. 154; p. 99.
Valve for engines, Pressure-regulated gas-. C. C. Riotte. No. 946,737; Jan. 18; Sp. p. 3852; Gaz. vol. 150; p. 643.
Valve for explosive-engines. C. Denegre. No. 955,390; Apr. 19; Sp. p. 3670; Gaz. vol. 153; p. 645.
Valve for fluid-operated motors, Controlling-. C. A. Parsons, G. G. Stoney, A. Q. Carnegie, and A. W. Bowerbank. No. 971,069; Sept. 27; Sp. p. 4113; Gaz. vol. 158; p. 727.
Valve for fluid-pressure brakes and signals, Conductor's. C. C. Farmer. No. 979,837; Dec. 27; Sp. p. 5255; Gaz. vol. 161; p. 909.
Valve for flush-tanks and the like. R. Soles. No. 952,371; Mar. 15; Sp. p. 3845; Gaz. vol. 152; p. 688.
Valve for funnels, Automatic closing-. H. M. Williams. No. 947,170; Jan. 18; Sp. p. 4765; Gaz. vol. 150; p. 786.
Valve for furnaces, Lift-. J. B. McKennan. No. 947,201; Jan. 18; Sp. p. 4831; Gaz. vol. 150; p. 797.
Valve for gas-burners, Pressure-regulating. J. A. Abrams. No. 973,609; Oct. 25; Sp. p. 4614; Gaz. vol. 159; p. 803.
Valve for gas-stoves, Safety-. W. J. Dolan. No. 951,878; Mar. 15; Sp. p. 2895; Gaz. vol. 152; p. 524.
Valve for heat-engines, Puppet-. L. G. Nilson. No. 958,759; May 24; Sp. p. 5086; Gaz. vol. 154; p. 859.
Valve for hydrants, Sprinkling-. J. B. Heim. No. 970,707; Sept. 20; Sp. p. 3365; Gaz. vol. 158; p. 577.
Valve for internal-combustion engines. F. W. Brady. No. 957,730; May 10; Sp. p. 2605; Gaz. vol. 154; p. 450.
Valve for internal-combustion engines, Exhaust-. T. J. Koven. No. 975,255; Nov. 8; Sp. p. 2664; Gaz. vol. 160; p. 430.
Valve for irrigating systems. J. Lang. No. 946,516; Jan. 11; Sp. p. 3406; Gaz. vol. 150; p. 545.
Valve for motors, Controlling-. C. A. Parsons and A. W. Bowerbank. No. 962,044; June 21; Sp. p. 3756; Gaz. vol. 155; p. 659.
Valve for pneumatic cleaning-tools, Coupling-. F. J. Matchette and C. Moukos. No. 974,409; Nov. 1; Sp. p. 739; Gaz. vol. 160; p. 112.
Valve for pneumatic control systems, Air-. L. S. Nash. No. 953,795; Apr. 5; Sp. p. 225; Gaz. vol. 153; p. 40.
Valve for pneumatic sanders, Engineer's. J. H. Hanlon. No. 958,393; May 17; Sp. p. 4357; Gaz. vol. 154; p. 711.
Valve for presses, Automatic change-. E. B. Anderson. No. 946,481; Jan. 11; Sp. p. 3317; Gaz. vol. 150; p. 533.
Valve for radiators, Air-. J. T. Whiting. No. 953,079; Mar. 29; Sp. p. 5359; Gaz. vol. 152; p. 986.
Valve for radiators, Air and water discharge. F. W. Leuthesser. No. 953,629; Mar. 29; Sp. p. 6558; Gaz. vol. 152; p. 1171.
Valve for radiators, Air and water discharge. F. W. Leuthesser. No. 954,815; Apr. 12; Sp. p. 2445; Gaz. vol. 153; p. 418.
Valve for regulating the volume and pressure of fluids. R. L. Frink. No. 953,133; Mar. 29; Sp. p. 5500; Gaz. vol. 152; p. 1003.
Valve for sewers, Check-. C. J. E. Carlson. No. 961,286; June 14; Sp. p. 2134; Gaz. vol. 155; p. 383.
Valve for sprinkler systems. J. McAlear. No. 967,956; Aug. 23; Sp. p. 4479; Gaz. vol. 157; p. 788.
Valve for steam-heating systems. O. C. Hatch. No. 951,563; Mar. 8; Sp. p. 2237; Gaz. vol. 152; p. 388.
Valve for steam-radiators, Automatic relief-. W. W. Brissenden. No. 952,414; Mar. 15; Sp. p. 3926; Gaz. vol. 152; p. 703.
Valve for steam-traps. C. J. Mackerey. No. 957,470; May 10; Sp. p. 2082; Gaz. vol. 154; p. 361.
Valve for steam-traps and the like. C. J. Mackerey. No. 957,469; May 10; Sp. p. 2081; Gaz. vol. 154; p. 361.
Valve for steam-traps and the like. A. E. Duram. No. 976,055; Nov. 15; Sp. p. 4301; Gaz. vol. 160; p. 730.
Valve for tanks, Supply-. J. M. McDaniel. No. 964,047; July 12; Sp. p. 2254; Gaz. vol. 156; p. 370.
Valve for train-pipes. E. E. Allbee. No. 964,081; July 12; Sp. p. 2323; Gaz. vol. 156; p. 382.
Valve for washbowls, Waste-. W. H. Pride, Jr. No. 953,154; Mar. 29; Sp. p. 5543; Gaz. vol. 152; p. 1011.
Valve for water-backs, Thermostatic. J. Harrington. No. 951,439; Mar. 8; Sp. p. 1986; Gaz. vol. 152; p. 345.
Valve for water-nozzles. F. Gfeller. No. 975,350; Nov. 8; Sp. p. 2863; Gaz. vol. 160; p. 461.
Valve for wind instruments. E. K. Blessing. No. 963,272; July 5; Sp. p. 627; Gaz. vol. 156; p. 87.
Valve, Foul-gas. O. F. Greim. No. 948,049; Feb. 1; Sp. p. 564; Gaz. vol. 151; p. 90.
Valve, Fuse-. N. B. Creighton. No. 973,260; Oct. 18; Sp. p. 3864; Gaz. vol. 159; p. 661.
Valve, Gas-. A. S. Lindkwist. No. 947,042; Jan. 18; Sp. p. 4531; Gaz. vol. 150; p. 747.
Valve, Gas-cut-off. O. A. Giffen. No. 954,180; Apr. 5; Sp. p. 1024; Gaz. vol. 153; p. 174.
Valve, Gas-engine. R. White. No. 957,285; May 10; Sp. p. 1709; Gaz. vol. 154; p. 299.
Valve, Gas-engine. B. M. Aslakson. No. 974,337; Nov. 1; Sp. p. 592; Gaz. vol. 160; p. 88.
Valve, Gas-engine suction-. H. F. Mueller. No. 963,463; July 5; Sp. p. 1005; Gaz. vol. 156; p. 151.
Valve, Gas-producer regulating-. H. I. Lea. No. 969,884; Sept. 13; Sp. p. 1604; Gaz. vol. 158; p. 276.
Valve, Gate-. A. Watson. No. 948,359; Feb. 8; Sp. p. 1205; Gaz. vol. 151; p. 220.
Valve, Gate-. A. W. Fischer. No. 961,594; June 14; Sp. p. 2805; Gaz. vol. 155; p. 485.
Valve, Gate-. J. N. Gilbert. No. 971,673; Oct. 4; Sp. p. 343; Gaz. vol. 159; p. 60.
Valve-gear. H. S. Vincent. No. 946,083; Jan. 11; Sp. p. 2371; Gaz. vol. 150; p. 394.
Valve-gear. J. Irving. No. 948,976; Feb. 8; Sp. p. 2514; Gaz. vol. 151; p. 427.
Valve-gear. O. R. Hukle. No. 950,177; Feb. 22; Sp. p. 5092; Gaz. vol. 151; p. 894.
Valve-gear. H. O. Lawrence. No. 951,536; Mar. 8; Sp. p. 2185; Gaz. vol. 152; p. 379.
Valve-gear. H. Forbes. No. 953,993; Apr. 5; Sp. p. 620; Gaz. vol. 153; p. 110.

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Valve-gear. J. G. Blunt. No. 976,542; Nov. 22; Sp. p. 5450; Gaz. vol. 160; p. 921.
Valve-gear. H. Dubert. No. 978,143; Dec. 13; Sp. p. 1582; Gaz. vol. 161; p. 280.
Valve-gear. H. P. Graves. No. 978,737; Dec. 13; Sp. p. 2863; Gaz. vol. 161; p. 485.
Valve-gear. T. Hall. No. 979,002; Dec. 20; Sp. p. 3421; Gaz. vol. 161; p. 601.
Valve-gear. H. F. Shaw. No. 979,212; Dec. 20; Sp. p. 3903; Gaz. vol. 161; p. 675.
Valve-gear and ignition mechanism. J. H. Londick. No. 976,478; Nov. 22; Sp. p. 5304; Gaz. vol. 160; p. 900.
Valve-gear, Corliss. F. Phillips. No. 969,802; Sept. 13; Sp. p. 1426; Gaz. vol. 158; p. 248.
Valve-gear engine. G. Horvath. No. 948,223; Feb. 1; Sp. p. 907; Gaz. vol. 151; p. 148.
Valve-gear, Fluid-pressure-engine. J. T. Marshall. No. 962,374; June 21; Sp. p. 4472; Gaz. vol. 155; p. 771.
Valve-gear for engines. C. F. Prescott. No. 973,137; Oct. 18; Sp. p. 3584; Gaz. vol. 159; p. 619.
Valve-gear for explosion-engines. N. T. Harrington. No. 951,910; Mar. 15; Sp. p. 2961; Gaz. vol. 152; p. 536.
Valve-gear for explosion-engines. N. T. Harrington. No. 975,234; Nov. 8; Sp. p. 2619; Gaz. vol. 160; p. 423.
Valve-gear for explosive-engines. W. J. McVicker. (Reissue.) No. 13,099; Apr. 5; Sp. p. 1516; Gaz. vol. 153; p. 251.
Valve-gear for fluid-pressure motors. C. Hammen. No. 976,458; Nov. 22; Sp. p. 5259; Gaz. vol. 160; p. 892.
Valve-gear for locomotives, Variable-lead. W. L. Davis. No. 977,938; Dec. 6; Sp. p. 1119; Gaz. vol. 161; p. 179.
Valve gear for steam-locomotives, Slide-. A. Jendrusik. No. 961,613; June 14; Sp. p. 2837; Gaz. vol. 155; p. 491.
Valve-gear, Spring-holder for. G. Graham. No. 962,953; June 28; Sp. p. 5687; Gaz. vol. 155; p. 996.
Valve-gear, Steam-engine. J. Phillips. No. 979,031; Dec. 20; Sp. p. 3481; Gaz. vol. 161; p. 610.
Valve, Globe-. J. L. Schrode. No. 951,970; Mar. 15; Sp. p. 3073; Gaz. vol. 152; p. 555.
Valve, Globe-. A. L. Kerbaugh. No. 974,498; Nov. 1; Sp. p. 974; Gaz. vol. 160; p. 144.
Valve, Graduated-release triple. W. V. Turner. No. 971,421; Sept. 27; Sp. p. 4809; Gaz. vol. 158; p. 842.
Valve grinder and drill, Combined. O. R. Angell. No. 977,258; Nov. 29; Sp. p. 7018; Gaz. vol. 160; p. 1193.
Valve-grinding device. C. H. Field. No. 978,442; Dec. 13; Sp. p. 2213; Gaz. vol. 161; p. 383.
Valve-handle. W. P. Marble. No. 954,533; Apr. 12; Sp. p. 1790; Gaz. vol. 153; p. 321.
Valve, High-pressure gate-. T. W. Stone. No. 970,764; Sept. 20; Sp. p. 3488; Gaz. vol. 158; p. 597.
Valve, Hopper-. C. W. Hunt. No. 946,547; Jan. 18; Sp. p. 3457; Gaz. vol. 150; p. 581.
Valve, &c., Hopper-. C. W. Hunt and C. C. King. No. 954,293; Apr. 5; Sp. p. 1277; Gaz. vol. 153; p. 211.
Valve, &c., Hopper-. C. W. Hunt. No. 954,294; Apr. 5; Sp. p. 1279; Gaz. vol. 153; p. 211.
Valve, Hot-water-radiator. J. P. Murphy. No. 955,979; Apr. 26; Sp. p. 4964; Gaz. vol. 153; p. 877.
Valve, Hydraulically-operated. E. Sandner. No. 947,311; Jan. 25; Sp. p. 5123; Gaz. vol. 150; p. 865.
Valve, Inflation-. J. E. Keller, Jr. No. 966,023; Aug. 2; Sp. p. 388; Gaz. vol. 157; p. 62.
Valve-inserting machine. C. A. Hoefer. No. 955,334; Apr. 19; Sp. p. 3539; Gaz. vol. 153; p. 626.
Valve, Internal-combustion-engine. D. V. T. A. Locke. No. 963,600; July 5; Sp. p. 1284; Gaz. vol. 156; p. 197.
Valve, Irrigating-. E. E. Izer. No. 957,777; May 10; Sp. p. 2715; Gaz. vol. 154; p. 465.
Valve, Irrigation-. J. M. Eads and A. S. Bent. No. 978,567; Dec. 13; Sp. p. 2505; Gaz. vol. 161; p. 427.
Valve, Lubricating-. C. Senn and D. C. Demarest. No. 957,003; May 3; Sp. p. 1095; Gaz. vol. 154; p. 172.
Valve, Lubricating-. T. J. Barbre. No. 970,292; Sept. 13; Sp. p. 2461; Gaz. vol. 158; p. 414.
Valve, Manually-operated check-. R. Trautschold. No. 967,465; Aug. 16; Sp. p. 3478; Gaz. vol. 157; p. 600.
Valve mechanism. J. Rowbotham. No. 949,734; Feb. 15; Sp. p. 4063; Gaz. vol. 151; p. 706.
Valve mechanism. J. A. Staples. No. 949,854; Feb. 22; Sp. p. 4345; Gaz. vol. 151; p. 781.
Valve mechanism. C. W. Everson and G. F. D. Trask. No. 961,220; June 14; Sp. p. 1990; Gaz. vol. 155; p. 359.
Valve mechanism. E. V. Anderson. No. 967,702; Aug. 16; Sp. p. 3957; Gaz. vol. 157; p. 679.
Valve mechanism. W. H. Schulte. No. 974,925; Nov. 8; Sp. p. 1920; Gaz. vol. 160; p. 317.
Valve mechanism. F. F. Field. No. 977,723; Dec. 6; Sp. p. 675; Gaz. vol. 161; p. 104.
Valve mechanism, Air-operated electrically-controlled. J. F. Webb, Jr. No. 948,405; Feb. 8; Sp. p. 1322; Gaz. vol. 151; p. 236.
Valve mechanism, Air-operated electrically-controlled. J. F. Webb, Jr. No. 948,406; Feb. 8; Sp. p. 1324; Gaz. vol. 151; p. 237.
Valve mechanism and governor. G. P. Randolph. No. 970,851; Sept. 20; Sp. p. 3676; Gaz. vol. 158; p. 628.
Valve mechanism, Automatically-controlled. T. J. Yates. No. 964,833; July 19; Sp. p. 4007; Gaz. vol. 156; p. 667.
Valve mechanism, Explosive-engine. T. L. Moore. No. 979,024; Dec. 20; Sp. p. 3468; Gaz. vol. 161; p. 608.
Valve mechanism, Flush-. J. H. Davis. No. 970,471; Sept. 20; Sp. p. 2834; Gaz. vol. 158; p. 495.
Valve mechanism, Flushing-. F. W. Bassett and W. A. Hunter, Jr. No. 957,028; May 3; Sp. p. 1146; Gaz. vol. 154; p. 181.
Valve mechanism for air-brake and train-stopping systems, Air-operated electrically-controlled. J. F. Webb, Jr. No. 948,404; Feb. 8; Sp. p. 1317; Gaz. vol. 151; p. 236.
Valve mechanism for air-compressors. T. H. Smith. No. 972,408; Oct. 11; Sp. p. 1934; Gaz. vol. 159; p. 339.
Valve mechanism for air-compressors. G. H. Reynolds. No. 973,211; Oct. 18; Sp. p. 3776; Gaz. vol. 159; p. 645.
Valve mechanism for compound engines. P. O. Poulson. No. 971,472; Sept. 27; Sp. p. 4902; Gaz. vol. 158; p. 858.
Valve mechanism for controlling fluid admission. G. Woodall. No. 970,411; Sept. 13; Sp. p. 2682; Gaz. vol. 158; p. 453.
Valve mechanism for Corliss engines. B. T. Allen. No. 964,194; July 12; Sp. p. 2539; Gaz. vol. 156; p. 418.
Valve mechanism for discharging air and water of condensation from steam-heating systems. B. E. Van Auken. No. 951,751; Mar. 8; Sp. p. 2607; Gaz. vol. 152; p. 451.
Valve mechanism for discharging air and water of condensation from steam-heating systems. B. E. Van Auken. No. 951,752; Mar. 8; Sp. p. 2615; Gaz. vol. 152; p. 452.
Valve mechanism for engines. J. W. Guthrie. No. 959,339; May 24; Sp. p. 6320; Gaz. vol. 154; p. 1056.
Valve mechanism for fluid-engines. H. H. Van Winkle and F. S. Healey. No. 950,644; Mar. 1; Sp. p. 388; Gaz. vol. 152; p. 63.
Valve mechanism for gas-pipes, Safety-. E. H. Hollis. No. 976,078; Nov. 15; Sp. p. 4341; Gaz. vol. 160; p. 737.
Valve mechanism for gate-valves. G. J. Henry, Jr. No. 968,944; Aug. 30; Sp. p. 6619; Gaz. vol. 157; p. 1153.
Valve mechanism for internal-combustion engines. H. Steingassner. No. 966,367; Aug. 2; Sp. p. 1085; Gaz. vol. 157; p. 174.
Valve mechanism for liquids. L. C. Jones. No. 966,921; Aug. 9; Sp. p. 2363; Gaz. vol. 157; p. 387.
Valve mechanism for steamboat-engines. R. Eaton. No. 976,790; Nov. 22; Sp. p. 5956; Gaz. vol. 160; p. 1005.
Valve mechanism for water-columns. F. C. Anderson. No. 958,351; May 17; Sp. p. 4268; Gaz. vol. 154; p. 697.
Valve mechanism for water-elevators. J. L. Latta. No. 947,827; Feb. 1; Sp. p. 80; Gaz. vol. 151; p. 17.
Valve mechanism, Non-return-. C. E. Golden. No. 948,445; Feb. 8; Sp. p. 1399; Gaz. vol. 151; p. 249.
Valve mechanism, Pneumatic-. K. I. Lindström. No. 968,861; Aug. 30; Sp. p. 6452; Gaz. vol. 157; p. 1124.
Valve, Mixing-. J. J. Lawler. No. 956,860; May 3; Sp. p. 787; Gaz. vol. 154; p. 125.
Valve motion for steam-engines, Slide-. E. Frikart. No. 957,762; May 10; Sp. p. 2679; Gaz. vol. 154; p. 460.
Valve, Needle-. A. P. Storrs. No. 969,573; Sept. 6; Sp. p. 905; Gaz. vol. 158; p. 144.
Valve, Non-return. J. R. Tanner. No. 971,802; Oct. 4; Sp. p. 605; Gaz. vol. 159; p. 106.
Valve-operating gear. R. W. Kaucher. No. 977,880; Dec. 6; Sp. p. 1000; Gaz. vol. 161; p. 157.
Valve-operating mechanism. P. W. Knauf. No. 956,772; May 3; Sp. p. 587; Gaz. vol. 154; p. 93.
Valve-operating mechanism. J. T. Knott. No. 959,758; May 31; Sp. p. 7194; Gaz. vol. 154; p. 1221.
Valve-operating mechanism. R. S. Carr. No. 960,816; June 7; Sp. p. 1169; Gaz. vol. 155; p. 195.
Valve-operating mechanism for explosive-engines, Exhaust-. W. H. and F. M. Spayd. No. 964,706; July 19; Sp. p. 3753; Gaz. vol. 156; p. 624.
Valve-operating mechanism for flush-tanks, &c. W. J. Frost. No. 964,098; July 12; Sp. p. 2362; Gaz. vol. 156; p. 388.
Valve-operating mechanism for presses. J. R. Browning. No. 969,457; Sept. 6; Sp. p. 635; Gaz. vol. 158; p. 102.
Valve-operating mechanism for steam-traps. W. T. Powers. No. 967,432; Aug. 16; Sp. p. 3417; Gaz. vol. 157; p. 589.
Valve-operating mechanism for use in internal-combustion engines. G. Green. No. 979,943; Dec. 27; Sp. p. 5465; Gaz. vol. 161; p. 944.
Valve or cock. P. J. Connors and G. Kitch. No. 952,605; Mar. 22; Sp. p. 4366; Gaz. vol. 152; p. 797.
Valve or faucet. E. P. McCollom. No. 953,637; Mar. 29; Sp. p. 6578; Gaz. vol. 152; p. 1174.
Valve or faucet. T. R. Beggs. No. 972,431; Oct. 11; Sp. p. 1978; Gaz. vol. 159; p. 347.
Valve or gate. F. P. Snow. No. 966,713; Aug. 9; Sp. p. 1863; Gaz. vol. 157; p. 318.
Valve or gate for weirs or the like. H. Büchler. No. 952,725; Mar. 22; Sp. p. 4627; Gaz. vol. 152; p. 838.
Valve, overflow, and strainer, Combined waste-. A. S. Newton. No. 953,754; Apr. 5; Sp. p. 145; Gaz. vol. 153; p. 28.
Valve, Packless. C. S. Frishmuth. No. 967,009; Aug. 9; Sp. p. 2532; Gaz. vol. 157; p. 417.
Valve, Piston-. J. T. Wilson. No. 957,286; May 10; Sp. p. 1710; Gaz. vol. 154; p. 299.
Valve, Piston-. J. A. Heany. No. 960,912; June 7; Sp. p. 1348; Gaz. vol. 155; p. 226.

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Valve, Piston-. D. F. Stayman. No. 974,534; Nov. 1; Sp. p. 1061; Gaz. vol. 160; p. 158.
Valve, Plug-. T. Keenan. No. 968,362; Aug. 23; Sp. p. 5382; Gaz. vol. 157; p. 928.
Valve, Pneumatic safety-. F. Moyle. No. 948,469; Feb. 8; Sp. p. 1446; Gaz. vol. 151; p. 257.
Valve, Pressure-controlling. F. A. Lockwood. No. 957,511; May 10; Sp. p. 2168; Gaz. vol. 154; p. 375.
Valve, Pressure-reducing. T. P. Ford. No. 971,982; Oct. 4; Sp. p. 1047; Gaz. vol. 159; p. 175.
Valve, Pressure reducing and regulating. J. V. Chase. No. 952,416; Mar. 15; Sp. p. 3931; Gaz. vol. 152; p. 704.
Valve, Pressure-regulated. A. T. Edmonson. No. 973,016; Oct. 18; Sp. p. 3321; Gaz. vol. 159; p. 577.
Valve, Pressure-relief. J. W. Foster. No. 960,302; June 7; Sp. p. 124; Gaz. vol. 155; p. 24.
Valve, Pressure-retaining. H. F. Bickel. No. 962,545; June 28; Sp. p. 4877; Gaz. vol. 155; p. 856.
Valve, Priming check-. J. A. H. Provost. No. 969,902; Sept. 13; Sp. p. 1640; Gaz. vol. 158; p. 282.
Valve, Quick-opening. W. L. Osborne. No. 971,552; Oct. 4; Sp. p. 88; Gaz. vol. 159; p. 17.
Valve, Radiator-. E. P. Allen. No. 957,593; May 10; Sp. p. 2317; Gaz. vol. 154; p. 403.
Valve, Radiator drain-. C. C. Peck. No. 979,553; Dec. 27; Sp. p. 4608; Gaz. vol. 161; p. 811.
Valve, Reciprocating. J. H. and G. C. Becker. No. 960,786; June 7; Sp. p. 1108; Gaz. vol. 155; p. 185.
Valve, Reducing-. A. W. Cash. No. 956,283; Apr. 26; Sp. p. 5626; Gaz. vol. 153; p. 982.
Valve, Reducing-. G. E. Witt. No. 960,758; June 7; Sp. p. 1046; Gaz. vol. 155; p. 176.
Valve, Reducing-. J. H. Derby. No. 975,838; Nov. 15; Sp. p. 3877; Gaz. vol. 160; p. 654.
Valve, Refilling-. E. G. Watrous. No. 975,091; Nov. 8; Sp. p. 2288; Gaz. vol. 160; p. 374.
Valve, Regulated automatic-closing. J. L. Gish. No. 946,217; Jan. 11; Sp. p. 2648; Gaz. vol. 150; p. 441.
Valve, Regulating-. G. W. Collin. No. 949,294; Feb. 15; Sp. p. 3172; Gaz. vol. 151; p. 559.
Valve, Regulating-. A. M. Allen. No. 958,206; May 17; Sp. p. 3821; Gaz. vol. 154; p. 646.
Valve-regulator. T. M. Wilkins. No. 975,915; Nov. 15; Sp. p. 4049; Gaz. vol. 160; p. 682.
Valve-regulator. T. M. Wilkins. No. 976,713; Nov. 22; Sp. p. 5780; Gaz. vol. 160; p. 978.
Valve-regulator, Corliss-engine. S. Strommerson. No. 967,261; Aug. 16; Sp. p. 3065; Gaz. vol. 157; p. 531.
Valve regulator, Exhaust-. H. J. Criner. No. 953,460; Mar. 29; Sp. p. 6203; Gaz. vol. 152; p. 1112.
Valve regulator, Fluid-pressure-. T. M. Wilkins. No. 970,284; Sept. 13; Sp. p. 2446; Gaz. vol. 158; p. 412.
Valve regulator, Fluid-pressure-. T. M. Wilkins. No. 972,744; Oct. 11; Sp. p. 2686; Gaz. vol. 159; p. 456.
Valve, Relay air-. H. J. Richardson. No. 959,073; May 24; Sp. p. 5781; Gaz. vol. 154; p. 968.
Valve, Relief-. F. H. Carssow. No. 966,999; Aug. 9; Sp. p. 2516; Gaz. vol. 157; p. 414.
Valve, Relief or safety. W. L. Osborne. No. 970,348; Sept. 13; Sp. p. 2563; Gaz. vol. 158; p. 433.
Valve-remover. P. C. Wiest. No. 977,245; Nov. 29; Sp. p. 6995; Gaz. vol. 160; p. 1189.
Valve-reseating device. G. H. and H. W. Brown. No. 949,057; Feb. 15; Sp. p. 2699; Gaz. vol. 151; p. 480.
Valve-reseating device. A. M. Lockett. No. 967,532; Aug. 16; Sp. p. 3628; Gaz. vol. 157; p. 623.
Valve-reseating tool. T. B. Williams. No. 956,918; May 3; Sp. p. 911; Gaz. vol. 154; p. 144.
Valve, Retaining-. F. H. Woods. No. 960,133; May 31; Sp. p. 8037; Gaz. vol. 154; p. 1350.
Valve, Return check-. J. Collis. No. 956,944; May 3; Sp. p. 955; Gaz. vol. 154; p. 153.
Valve, Rocker-. S. N. Palms. No. 947,844; Feb. 1; Sp. p. 140; Gaz. vol. 151; p. 23.
Valve, Rotary. L. A. Frayer and C. O. Howard. (Reissue.) No. 13,108; May 3; Sp. p. 1437; Gaz. vol. 154; p. 230.
Valve, Rotary. R. W. Riordan. No. 958,313; May 17; Sp. p. 4188; Gaz. vol. 154; p. 683.
Valve, Rotary steam-. T. F. Scollard. No. 960,717; June 7; Sp. p. 971; Gaz. vol. 155; p. 161.
Valve, Rotary steam-. S. W. Perry. No. 967,827; Aug. 16; Sp. p. 4218; Gaz. vol. 157; p. 721.
Valve, Safety-. H. C. McCarty. No. 953,052; Mar. 29; Sp. p. 5297; Gaz. vol. 152; p. 976.
Valve, Safety-. L. Schutte. No. 961,735; June 14; Sp. p. 3078; Gaz. vol. 155; p. 532.
Valve, Safety gas-. S. Strand. No. 965,665; July 26; Sp. p. 5769; Gaz. vol. 156; p. 982.
Valve-seat grinder. E. E. Townsend. No. 959,653; May 31; Sp. p. 6973; Gaz. vol. 154; p. 1187.
Valve seating arrangement, Steam and other. A. P. Kjöller. No. 975,046; Nov. 8; Sp. p. 2201; Gaz. vol. 160; p. 358.
Valve-seating attachment. J. M. Gibbs. No. 979,068; Dec. 20; Sp. p. 3557; Gaz. vol. 161; p. 622.
Valve, Self-seating and self-closing. S. G. Neal. No. 951,378; Mar. 8; Sp. p. 1870; Gaz. vol. 152; p. 326.
Valve-setting mechanism for locomotives. J. L. Randolph. No. 951,258; Mar. 8; Sp. p. 1604; Gaz. vol. 152; p. 287.
Valve, Signal-. C. E. Person. No. 949,840; Feb. 22; Sp. p. 4309; Gaz. vol. 151; p. 776.
Valve, Signal-. F. E. Kimmell. No. 956,363; Apr. 26; Sp. p. 5806; Gaz. vol. 153; p. 1009.
Valve, Siphon-. L. T. Burns. No. 958,589; May 17; Sp. p. 4733; Gaz. vol. 154; p. 778.
Valve, Siphon-. F. Lutz. No. 963,604; July 5; Sp. p. 1291; Gaz. vol. 156; p. 198.
Valve, Sliding gate-. E. W. Hoyt. No. 973,435; Oct. 18; Sp. p. 4237; Gaz. vol. 159; p. 721.
Valve-spring remover. J. Turner. No. 970,141; Sept. 13; Sp. p. 2130; Gaz. vol. 158; p. 363.
Valve-spring retainer. O. Blomberg. No. 972,434; Oct. 11; Sp. p. 1985; Gaz. vol. 159; p. 348.
Valve, Steam, air, and water trap. F. W. Leuthesser. No. 946,970; Jan. 18; Sp. p. 4398; Gaz. vol. 150; p. 723.
Valve, Steam, air, and water trap. J. E. Boegen. No. 959,297; May 24; Sp. p. 6230; Gaz. vol. 154; p. 1042.
Valve, Steam, air, and water trap. F. W. Leuthesser. No. 960,972; June 7; Sp. p. 1467; Gaz. vol. 155; p. 246.
Valve, Steam, air, and water trap. J. E. Boegen. No. 974,100; Oct. 25; Sp. p. 5617; Gaz. vol. 159; p. 974.
Valve, Steam-engine. E. J. Armstrong. No. 946,000; Jan. 11; Sp. p. 2212; Gaz. vol. 150; p. 367.
Valve, Steam-pressure reducing and controlling. N. Filiberto. No. 971,435; Sept. 27; Sp. p. 4833; Gaz. vol. 158; p. 846.
Valve, Steam-regulating. W. F. Kiesel, Jr. No. 961,300; June 14; Sp. p. 2165; Gaz. vol. 155; p. 387.
Valve stem or rod. C. Kiess. No. 947,593; Jan. 25; Sp. p. 5780; Gaz. vol. 150; p. 960.
Valve stems, Cap for renewing the worn ends of engine-. J. A. McHardy. No. 976,274; Nov. 22; Sp. p. 4860; Gaz. vol. 160; p. 829.
Valve, Stop-. T. Pollock. No. 969,803; Sept. 13; Sp. p. 1428; Gaz. vol. 158; p. 248.
Valve, Stop-. C. O. Hawkins. No. 971,446; Sept. 27; Sp. p. 4856; Gaz. vol. 158; p. 850.
Valve, Stop and check. G. C. Davis and W. A. Daley. No. 957,311; May 10; Sp. p. 1759; Gaz. vol. 154; p. 308.
Valve, Stop and through-way. F. W. Leevers. No. 970,245; Sept. 13; Sp. p. 2371; Gaz. vol. 158; p. 399.
Valve, Straightway. J. L. Halyburton. No. 974,055; Oct. 25; Sp. p. 5529; Gaz. vol. 159; p. 959.
Valve, Supply-. N. B. Johnson. No. 973,511; Oct. 25; Sp. p. 4406; Gaz. vol. 159; p. 770.
Valve, Tank-. A. D. Herschler. No. 947,234; Jan. 25; Sp. p. 4914; Gaz. vol. 150; p. 837.
Valve, Tank-. W. N. Long. No. 968,963; Aug. 30; Sp. p. 6656; Gaz. vol. 157; p. 1159.
Valve, Temperature-controlling. I. W. White. No. 949,869; Feb. 22; Sp. p. 4396; Gaz. vol. 151; p. 788.
Valve thread-preserver, Oil-. J. B. Oeink. No. 955,987; Apr. 26; Sp. p. 4978; Gaz. vol. 153; p. 880.
Valve, Three-way. C. L. Straub. No. 967,460; Aug. 16; Sp. p. 3469; Gaz. vol. 157; p. 598.
Valve, Throttle-. E. D. Caldwell. No. 952,508; Mar. 22; Sp. p. 4137; Gaz. vol. 152; p. 762.
Valve, Throttle-. J. S. Chambers. No. 952,510; Mar. 22; Sp. p. 4139; Gaz. vol. 152; p. 762.
Valve, Throttle-. J. Tonge. No. 960,735; June 7; Sp. p. 1005; Gaz. vol. 155; p. 169.
Valve timer, Gas-engine-. T. P. Huden. No. 959,345; May 24; Sp. p. 6331; Gaz. vol. 154; p. 1058.
Valve, Trip-. A. W. Fischer. No. 960,872; June 7; Sp. p. 1270; Gaz. vol. 155; p. 213.
Valve, Triple. W. A. Pendry. No. 959,800; May 31; Sp. p. 7290; Gaz. vol. 154; p. 1235.
Valve, Triple. W. A. Pendry. No. 959,801; May 31; Sp. p. 7294; Gaz. vol. 154; p. 1235.
Valve, Triple. O. F. Torbron. No. 965,608; July 26; Sp. p. 5657; Gaz. vol. 156; p. 962.
Valve, Triple. W. A. Pendry. No. 978,640; Dec. 13; Sp. p. 2665; Gaz. vol. 161; p. 453.
Valve, Union check-. H. H. Groh. No. 967,514; Aug. 16; Sp. p. 3595; Gaz. vol. 157; p. 617.
Valve, Universal controlling-. W. C. Arp, F. F. Hildreth, and F. N. Rumbley. No. 948,571; Feb. 8; Sp. p. 1672; Gaz. vol. 151; p. 291.
Valve, Vacuum radiator-. A. S. Light. No. 951,404; Mar. 8; Sp. p. 1930; Gaz. vol. 152; p. 334.
Valve, Variable-time-operating oil-controlled. J. F. Ware. No. 961,274; June 14; Sp. p. 2105; Gaz. vol. 155; p. 377.
Valve, Ventilating-. G. E. Knowles. No. 971,047; Sept. 27; Sp. p. 4069; Gaz. vol. 158; p. 720.
Valve, Water-. J. B. Anthony and R. M. Morris. No. 955,036; Apr. 12; Sp. p. 2920; Gaz. vol. 153; p. 494.
Valve, Water-cooled. W. C. Mitchell. No. 956,538; May 3; Sp. p. 60; Gaz. vol. 154; p. 13.
Valve, Water-gate. A. J. Collar. No. 954,930; Apr. 12; Sp. p. 2713; Gaz. vol. 153; p. 459.
Valve, Water-sealed producer-. F. G. Hobart. No. 967,919; Aug. 23; Sp. p. 4410; Gaz. vol. 157; p. 776.
Valves and other devices, Means for actuating flush-. J. G. Hodgson. No. 945,166; Jan. 4; Sp. p. 328; Gaz. vol. 150; p. 55.
Valves, Device for facilitating the removal of engine-. O. A. Hays. No. 971,375; Sept. 27; Sp. p. 4733; Gaz. vol. 158; p. 827.

Alphabetical list of inventions—Continued.

Valves, Device for preventing ignition of pressure-reducing. J. H. and A. B. Dräger. No. 979,936; Dec. 27; Sp. p. 5449; Gaz. vol. 161; p. 941.
Valves, Device for preventing the ignition of pressure-reducing. A. B. Dräger. No. 970,024; Sept. 13; Sp. p. 1910; Gaz. vol. 158; p. 324.
Valves, fire-plugs, and the like, Box for street-. E. Prendergast. No. 945,597; Jan. 4; Sp. p. 1263; Gaz. vol. 150; p. 197.
Valves in gas-engines, Means for adjusting the throw of the cams for operating. D. A. Lindsay. No. 953,424; Mar. 29; Sp. p. 6130; Gaz. vol. 152; p. 1100.
Valves, Indicator-post for. E. H. Whitney. No. 951,927; Mar. 15; Sp. p. 2993; Gaz. vol. 152; p. 542.
Valves, Means for controlling the valve movement of gate-. D. Libby, Jr. No. 963,230; July 5; Sp. p. 511; Gaz. vol. 156; p. 72.
Valves, Operating means for gate-. D. Libby, Jr. No. 954,446; Apr. 12; Sp. p. 1583; Gaz. vol. 153; p. 290.
Valves, Regulating apparatus for mixing-. C. Assmann. No. 962,111; June 21; Sp. p. 3920; Gaz. vol. 155; p. 683.
Valves, Slow-down attachment for hydraulic. F. Hymans. No. 955,876; Apr. 26; Sp. p. 4753; Gaz. vol. 153; p. 841.
Vamp and quarter forming machine. A. Straub. No. 965,046; July 19; Sp. p. 4441; Gaz. vol. 156; p. 739.
Vamp-marking machine. E. F. Davenport. No. 968,746; Aug. 30; Sp. p. 6223; Gaz. vol. 157; p. 1088.
Vamp-trimming machine. O. Ashton. No. 961,200; June 14; Sp. p. 1942; Gaz. vol. 155; p. 351.
Vamp-trimming machine. J. B. Hadaway. No. 968,553; Aug. 30; Sp. p. 5787; Gaz. vol. 157; p. 1019.
Vamp-trimming machine. J. B. Hadaway. No. 968,554; Aug. 30; Sp. p. 5790; Gaz. vol. 157; p. 1020.
Vamp-trimming machine. J. B. Hadaway. No. 968,555; Aug. 30; Sp. p. 5794; Gaz. vol. 157; p. 1020.
Vamp-trimming machine. J. B. Hadaway. No. 968,556; Aug. 30; Sp. p. 5798; Gaz. vol. 157; p. 1021.
Vanner. D. K. Allison. No. 945,300; Jan. 4; Sp. p. 641; Gaz. vol. 150; p. 100.
Vapor and steam burner. G. A. Stafford. No. 967,991; Aug. 23; Sp. p. 4560; Gaz. vol. 157; p. 800.
Vapor-apparatus-controlling device. P. H. Thomas. No. 958,195; May 17; Sp. p. 3801; Gaz. vol. 154; p. 642.
Vapor-apparatus-starting device. P. H. Thomas. No. 958,445; May 17; Sp. p. 4461; Gaz. vol. 154; p. 729.
Vapor apparatus, Starting device for adjustable. P. H. Thomas. No. 950,709; Mar. 1; Sp. p. 544; Gaz. vol. 152; p. 85.
Vapor-burner. H. M. Conner. No. 945,305; Jan. 4; Sp. p. 652; Gaz. vol. 150; p. 102.
Vapor-burner. C. E. Wirth. No. 950,314; Feb. 22; Sp. p. 5369; Gaz. vol. 151; p. 942.
Vapor-burner. A. C. Smith. No. 953,978; Apr. 5; Sp. p. 579; Gaz. vol. 153; p. 104.
Vapor-burner. M. Gratz. No. 954,092; Apr. 5; Sp. p. 835; Gaz. vol. 153; p. 144.
Vapor-burner. E. B. Raymond. No. 956,417; Apr. 26; Sp. p. 5908; Gaz. vol. 153; p. 1028.
Vapor-burner. A. H. Waite. No. 959,410; May 24; Sp. p. 6446; Gaz. vol. 154; p. 1078.
Vapor-burner. E. M. Byers. No. 965,074; July 19; Sp. p. 4498; Gaz. vol. 156; p. 748.
Vapor-burner. H. V. Dresbach and W. R. Morey. No. 967,622; Aug. 16; Sp. p. 3803; Gaz. vol. 157; p. 653.
Vapor-burners, Automatic cut-off for. S. Stenberg. No. 954,477; Apr. 12; Sp. p. 1668; Gaz. vol. 153; p. 301.
Vapor-burners, Feeding device for. L. O. T. Thompson. No. 952,770; Mar. 22; Sp. p. 4728; Gaz. vol. 152; p. 853.
Vapor-converters in operation, Means for maintaining. P. H. Thomas. No. 964,336; July 12; Sp. p. 2833; Gaz. vol. 156; p. 467.
Vapor-converters, Means for starting serially-operated. F. H. von Keller. No. 946,053; Jan. 11; Sp. p. 2313; Gaz. vol. 150; p. 384.
Vapor-converters, Protecting device for. P. H. Thomas. No. 946,812; Jan. 18; Sp. p. 4039; Gaz. vol. 150; p. 670.
Vapor devices, Starter and circuit for. S. E. Flichtner. No. 956,066; Apr. 26; Sp. p. 5147; Gaz. vol. 153; p. 908.
Vapor-extractor for use in treating whisky-barrels. B. H. Hubbert. No. 950,449; Feb. 22; Sp. p. 5618; Gaz. vol. 151; p. 985.
Vapor from aqueous liquids, Dissociating and removing. W. T. Hoofnagle. No. 956,097; Apr. 26; Sp. p. 5221; Gaz. vol. 153; p. 918.
Vapor-generating apparatus, Combustible-. P. C. Pace. No. 967,044; Aug. 9; Sp. p. 2621; Gaz. vol. 157; p. 429.
Vapor-generator. R. W. Zierlein. No. 968,629; Aug. 30; Sp. p. 5943; Gaz. vol. 157; p. 1046.
Vapor generator, Saturated or superheated. G. Voegell. No. 974,216; Nov. 1; Sp. p. 255; Gaz. vol. 160; p. 42.
Vapor mantle-burner. C. M. Lungren. No. 948,999; Feb. 15; Sp. p. 2565; Gaz. vol. 151; p. 462.
Vapor power plant. C. P. Turner. No. 952,386; Mar. 15; Sp. p. 3871; Gaz. vol. 152; p. 693.
Vapor rectifier, Mercury-. F. Conrad. No. 969,525; Sept. 6; Sp. p. 796; Gaz. vol. 158; p. 125.
Vapor-rectifier system. C. M. Green. No. 952,109; Mar. 15; Sp. p. 3332; Gaz. vol. 152; p. 600.
Vapor-rectifier system. C. M. Green. No. 958,391; May 17; Sp. p. 4354; Gaz. vol. 154; p. 710.
Vapor rectifiers, Automatic starting device for mercury-. F. S. Chapman. No. 969,523; Sept. 6; Sp. p. 793; Gaz. vol. 158; p. 124.
Vapor-rectifying devices, Starting means for. F. Conrad. No. 975,399; Nov. 15; Sp. p. 2971; Gaz. vol. 160; p. 504.
Vaporizer. G. F. Swain. No. 952,548; Mar. 22; Sp. p. 4235; Gaz. vol. 152; p. 776.
Vaporizer and burner, Oil. O. A. Makinson. No. 973,526; Oct. 25; Sp. p. 4438; Gaz. vol. 159; p. 775.
Vaporizer for medicines. A. G. Whitehorne-Cole. No. 948,153; Feb. 1; Sp. p. 772; Gaz. vol. 151; p. 127.
Vaporizer, Formalin-. J. J. Van Dandaigue. No. 965,966; Aug. 2; Sp. p. 248; Gaz. vol. 157; p. 42.
Vaporizer-heating device. A. E. Osborn. No. 946,806; Jan. 18; Sp. p. 4026; Gaz. vol. 150; p. 668.
Vaporizer, Insectifuge-. A. C. Meeker. No. 965,392; July 26; Sp. p. 5161; Gaz. vol. 156; p. 885.
Vaporizer or carbureter. A. J. Stickler. No. 976,409; Nov. 22; Sp. p. 5158; Gaz. vol. 160; p. 876.
Vaporizers, Cleaning device for hydrocarbon-. J. Danischevski. No. 947,056; Jan. 18; Sp. p. 4552; Gaz. vol. 150; p. 751.
Vaporizers, Regulating device for. F. J. H. Rustige. No. 952,142; Mar. 15; Sp. p. 3399; Gaz. vol. 152; p. 611.
Vaporizing and mixing device. C. F. Preston. No. 948,402; Feb. 8; Sp. p. 1313; Gaz. vol. 151; p. 235.
Vaporizing apparatus, Fluid-. G. H. Benjamin. No. 953,682; Apr. 5; Sp. p. 8; Gaz. vol. 153; p. 4.
Vaporizing device. A. A. Low, M. J. Wohl, and H. Hertzberg. No. 957,786; May 10; Sp. p. 2735; Gaz. vol. 154; p. 468.
Vaporizing device. A. A. Low, M. J. Wohl, and H. Hertzberg. No. 969,893; Sept. 13; Sp. p. 1620; Gaz. vol. 158; p. 279.
Varnish. L. H. Baekeland. No. 954,666; Apr. 12; Sp. p. 2092; Gaz. vol. 153; p. 367.
Varnish. F. Ephraim. No. 966,814; Aug. 9; Sp. p. 2140; Gaz. vol. 157; p. 353.
Varnish for coating leather, Apparatus for manufacturing. G. W. Priest. No. 971,071; Sept. 27; Sp. p. 4121; Gaz. vol. 158; p. 728.
Varnish, Providing bronze-powder and dust colors with a coat of. E. Oeser. No. 976,594; Nov. 22; Sp. p. 5557; Gaz. vol. 160; p. 939.
Varnishes and for impregnation and insulation and their production, Substances to be used as. G. G. Diesser. No. 967,737; Aug. 16; Sp. p. 4042; Gaz. vol. 157; p. 692.
Vase. A. W. Smith, Jr. No. 949,452; Feb. 15; Sp. p. 3507; Gaz. vol. 151; p. 612.
Vat: *See* Leaching-vat.
Vats and similar receptacles, Device for cooling store-. J. ten Doornkaat-Koolman. No. 963,751; July 12; Sp. p. 1606; Gaz. vol. 156; p. 270.
Vault. H. L. Pangborn. No. 975,788; Nov. 15; Sp. p. 3787; Gaz. vol. 160; p. 638.
Vault. W. H. Hollar, W. Rees, and H. F. Balou. No. 977,307; Nov. 29; Sp. p. 7107; Gaz. vol. 160; p. 1209.
Vault and strong-room door. W. E. Arnold. No. 955,933; Apr. 26; Sp. p. 4862; Gaz. vol. 153; p. 860.
Vault, Burial-. J. T. Suit. No. 947,402; Jan. 25; Sp. p. 5344; Gaz. vol. 150; p. 895.
Vault, Burial-. A. C. Bishop. No. 949,790; Feb. 22; Sp. p. 4204; Gaz. vol. 151; p. 759.
Vault, Burial-. J. B. Murray. No. 950,112; Feb. 22; Sp. p. 4954; Gaz. vol. 151; p. 872.
Vault, Burial-. J. C. Snyder. No. 950,681; Mar. 1; Sp. p. 458; Gaz. vol. 152; p. 75.
Vault, Burial-. D. H. Brown and J. B. Bennett. No. 963,115; July 5; Sp. p. 237; Gaz. vol. 156; p. 31.
Vault, Burial-. J. C. Simpson. No. 976,407; Nov. 22; Sp. p. 5156; Gaz. vol. 160; p. 875.
Vault-closure. F. Unckrich. No. 959,406; May 24; Sp. p. 6436; Gaz. vol. 154; p. 1077.
Vault-cover fastening. J. Armstrong. No. 947,584; Jan. 25; Sp. p. 5760; Gaz. vol. 150; p. 957.
Vault, Grave-. J. W. Freeman. No. 970,208; Sept. 13; Sp. p. 2286; Gaz. vol. 158; p. 387.
Vault, Grave-. J. Young. No. 973,608; Oct. 25; Sp. p. 4613; Gaz. vol. 159; p. 802.
Vault-head. A. W. Kurz. No. 967,940; Aug. 23; Sp. p. 4450; Gaz. vol. 157; p. 783.
Vault-head. W. B. White. No. 976,327; Nov. 22; Sp. p. 4965; Gaz. vol. 160; p. 846.
Vault-light. J. J. Lawler. No. 979,772; Dec. 27; Sp. p. 5089; Gaz. vol. 161; p. 886.
Vault mold, Grave-. W. Dennis. No. 979,062; Dec. 20; Sp. p. 3546; Gaz. vol. 161; p. 621.
Vault or sepulcher. D. Renshaw. No. 951,493; Mar. 8; Sp. p. 2107; Gaz. vol. 152; p. 364.
Vaults, Closure for grave-. J. Pfeifer. No. 946,863; Jan. 18; Sp. p. 4157; Gaz. vol. 150; p. 687.
Vaults, Construction of vestibules of armor-plate. G. L. Damon. No. 954,670; Apr. 12; Sp. p. 2097; Gaz. vol. 153; p. 368.
Vaults, safes, &c., Electrically-protected plate and lining for. J. P. Williams. No. 961,826; June 21; Sp. p. 3287; Gaz. vol. 155; p. 586.
Vaults, safes, &c., Protective system and apparatus for safeguarding. J. C. Gough. No. 973,033; Oct. 18; Sp. p. 3369; Gaz. vol. 159; p. 583.

Vegetable-cutter. W. F. Harbaugh and C. F. Smith. No. 947,076; Jan. 18; Sp. p. 4591; Gaz. vol. 150; p. 758.
Vegetable-cutter. A. E. McGrew. No. 952,625; Mar. 22; Sp. p. 4412; Gaz. vol. 152; p. 804.
Vegetable-cutter. J. P. Eckert. No. 962,500; June 28; Sp. p. 4779; Gaz. vol. 155; p. 841.
Vegetable-cutter. W. H. Gebauer. No. 965,384; July 26; Sp. p. 5143; Gaz. vol. 156; p. 882.
Vegetable-cutter. D. B. Huffman. No. 968,663; Aug. 30; Sp. p. 6028; Gaz. vol. 157; p. 1058.
Vegetable-cutter. F. L. Mayer. No. 971,546; Oct. 4; Sp. p. 79; Gaz. vol. 159; p. 15.
Vegetable-cutter. G. Hahn. No. 978,153; Dec. 13; Sp. p. 1598; Gaz. vol. 161; p. 283.
Vegetable cutter and grater. S. I. Meseraull. No. 953,790; Apr. 5; Sp. p. 215; Gaz. vol. 153; p. 39.
Vegetable-loader. E. E. Bergren. No. 946,321; Jan. 11; Sp. p. 2885; Gaz. vol. 150; p. 478.
Vegetable masher and mixer. C. H. and G. A. Malmquist. No. 946,610; Jan. 18; Sp. p. 3576; Gaz. vol. 150; p. 601.
Vegetable matter for separation of fiber therefrom, Treating. J. E. Podmore. No. 953,287; Mar. 29; Sp. p. 5826; Gaz. vol. 152; p. 1053.
Vegetable matter, Treating. G. D. Burton. No. 976,037; Nov. 15; Sp. p. 4264; Gaz. vol. 160; p. 723.
Vegetable-topper. S. Frese. No. 945,229; Jan. 4; Sp. p. 465; Gaz. vol. 150; p. 76.
Vegetable-topper. B. L. Ufford. No. 955,019; Apr. 12; Sp. p. 2889; Gaz. vol. 153; p. 489.
Vegetable-washer. E. J. Judge. No. 958,812; May 24; Sp. p. 5211; Gaz. vol. 154; p. 879.
Vegetable-washer. S. A. Mascia. No. 974,165; Nov. 1; Sp. p. 116; Gaz. vol. 160; p. 23.
Vegetables and partially cooking the same, Washing. E. J. Judge. No. 957,466; May 10; Sp. p. 2075; Gaz. vol. 154; p. 360.
Vegetables, Scalding and washing. G. E. Wright. No. 969,238; Sept. 6; Sp. p. 198; Gaz. vol. 158; p. 32.
Vehicle. J. Johnston. No. 945,169; Jan. 4; Sp. p. 334; Gaz. vol. 150; p. 56.
Vehicle. J. Kelly. No. 945,330; Jan. 4; Sp. p. 716; Gaz. vol. 150; p. 110.
Vehicle. D. W. Martin. No. 954,317; Apr. 5; Sp. p. 1323; Gaz. vol. 153; p. 219.
Vehicle. J. Reinehr. No. 961,532; June 14; Sp. p. 2668; Gaz. vol. 155; p. 464.
Vehicle. E. Lange. No. 962,229; June 21; Sp. p. 4168; Gaz. vol. 155; p. 724.
Vehicle. A. F. Rockwell. No. 962,258; June 21; Sp. p. 4237; Gaz. vol. 155; p. 733.
Vehicle. A. M. Bollinger. No. 974,547; Nov. 1; Sp. p. 1095; Gaz. vol. 160; p. 165.
Vehicle. C. H. Washburne. No. 976,413; Nov. 22; Sp. p. 5165; Gaz. vol. 160; p. 877.
Vehicle. H. C. Priebe. No. 978,203; Dec. 13; Sp. p. 1707; Gaz. vol. 161; p. 300.
Vehicle. R. C. Sayer. No. 979,572; Dec. 27; Sp. p. 4663; Gaz. vol. 161; p. 818.
Vehicle and like hood, Motor-. J. S. Cree. No. 961,687; June 14; Sp. p. 2981; Gaz. vol. 155; p. 516.
Vehicle and locomotive sanding apparatus. J. Taylor. No. 956,651; May 3; Sp. p. 311; Gaz. vol. 154; p. 51.
Vehicle antivibration device. W. A. and C. L. Penfield. No. 968,259; Aug. 23; Sp. p. 5171; Gaz. vol. 157; p. 891.
Vehicle antivibration device. E. Helmus. No. 978,291; Dec. 13; Sp. p. 1897; Gaz. vol. 161; p. 332.
Vehicle attachment. W. H. Long. No. 973,360; Oct. 18; Sp. p. 4065; Gaz. vol. 159; p. 696.
Vehicle attachment, Motor-. C. A. Cline, Jr. No. 972,821; Oct. 18; Sp. p. 2845; Gaz. vol. 159; p. 507.
Vehicle automatic brake, Wheeled-. G. W. Northrop. No. 967,824; Aug. 16; Sp. p. 4214; Gaz. vol. 157; p. 720.
Vehicle auxiliary spring. J. Eckhard. No. 962,703; June 28; Sp. p. 5216; Gaz. vol. 155; p. 910.
Vehicle back-up brake. D. T. Walsh. No. 978,966; Dec. 20; Sp. p. 3340; Gaz. vol. 161; p. 588.
Vehicle, Balancing. C. L. Dougherty. No. 960,838; June 7; Sp. p. 1211; Gaz. vol. 155; p. 202.
Vehicle bodies and seats, Spring-support for. P. H. Schwartz. No. 946,881; Jan. 18; Sp. p. 4212; Gaz. vol. 150; p. 693.
Vehicle-body. S. R. Bailey. No. 955,494; Apr. 19; Sp. p. 3880; Gaz. vol. 153; p. 681.
Vehicle-body. J. A. Bieber. No. 963,854; July 12; Sp. p. 1853; Gaz. vol. 156; p. 305.
Vehicle-body. S. E. Light. No. 969,293; Sept. 6; Sp. p. 298; Gaz. vol. 158; p. 49.
Vehicle-body. D. J. Kerstetter. No. 970,238; Sept. 13; Sp. p. 2353; Gaz. vol. 158; p. 396.
Vehicle-body structure. E. H. Remde. No. 958,940; May 24; Sp. p. 5501; Gaz. vol. 154; p. 923.
Vehicle-body structures, Fastening device for. E. Gruenfeldt. No. 958,917; May 24; Sp. p. 5467; Gaz. vol. 154; p. 916.
Vehicle-body support. A. F. Rockwell. No. 962,256; June 21; Sp. p. 4231; Gaz. vol. 155; p. 733.
Vehicle-body support. A. F. Rockwell. No. 962,259; June 21; Sp. p. 4239; Gaz. vol. 155; p. 734.
Vehicle-brake. H. E. Penney. No. 949,246; Feb. 15; Sp. p. 3064; Gaz. vol. 151; p. 542.
Vehicle-brake. J. H. Hotchkiss and A. P. Lane. No. 949,652; Feb. 15; Sp. p. 3897; Gaz. vol. 151; p. 679.
Vehicle-brake. S. F. Boyce. No. 951,174; Mar. 8; Sp. p. 1437; Gaz. vol. 152; p. 261.
Vehicle-brake. W. J. Wilde. No. 954,711; Apr. 12; Sp. p. 2183; Gaz. vol. 153; p. 381.
Vehicle-brake. S. McGaw. No. 956,402; Apr. 26; Sp. p. 5884; Gaz. vol. 153; p. 1023.
Vehicle-brake. C. E. Jackson. No. 956,899; May 3; Sp. p. 869; Gaz. vol. 154; p. 138.
Vehicle-brake. V. T. Sweeney. No. 957,632; May 10; Sp. p. 2404; Gaz. vol. 154; p. 416.
Vehicle-brake. R. N. Martz. No. 963,608; July 5; Sp. p. 1299; Gaz. vol. 156; p. 200.
Vehicle-brake. C. W. Olson. No. 963,930; July 12; Sp. p. 2008; Gaz. vol. 156; p. 330.
Vehicle-brake. L. Mignault. No. 968,867; Aug. 30; Sp. p. 6462; Gaz. vol. 157; p. 1126.
Vehicle-brake. G. W. Fisher. (Reissue.) No. 13,175; Nov. 29; Sp. p. 7394; Gaz. vol. 160; p. 1249.
Vehicle brake and coaster. W. Robinson. No. 968,604; Aug. 30; Sp. p. 5892; Gaz. vol. 157; p. 1038.
Vehicle-brake, Automatic. G. W. Fisher. No. 948,418; Feb. 8; Sp. p. 1344; Gaz. vol. 151; p. 240.
Vehicle-brake, Automatic. G. W. Whitcomb. No. 959,279; May 24; Sp. p. 6198; Gaz. vol. 154; p. 1035.
Vehicle brake, Motor-. H. M. Lyman. No. 946,145; Jan. 11; Sp. p. 2492; Gaz. vol. 150; p. 416.
Vehicle brake, Road-. W. H. Weight. No. 966,722; Aug. 9; Sp. p. 1903; Gaz. vol. 157; p. 322.
Vehicle canopy-top. C. E. Walters. No. 963,098; July 5; Sp. p. 168; Gaz. vol. 156; p. 25.
Vehicle-caster. J. E. Norwood. No. 973,690; Oct. 25; Sp. p. 4789; Gaz. vol. 159; p. 832.
Vehicle, Child's. C. E. Fourman. No. 958,914; May 24; Sp. p. 5462; Gaz. vol. 154; p. 915.
Vehicle, Child's. M. Pettit and L. S. Roll. No. 970,849; Sept. 20; Sp. p. 3674; Gaz. vol. 158; p. 628.
Vehicle-chock. T. Scherf and H. W. Merrick. No. 945,613; Jan. 4; Sp. p. 1296; Gaz. vol. 150; p. 202.
Vehicle collapsible hood or canopy. J. C. Keil and W. B. Allen. No. 960,338; June 7; Sp. p. 205; Gaz. vol. 155; p. 35.
Vehicle controller, Motor-. G. W. Dunham. No. 968,750; Aug. 30; Sp. p. 6232; Gaz. vol. 157; p. 1090.
Vehicle controller, Motor-. A. Winton. No. 972,047; Oct. 4; Sp. p. 1171; Gaz. vol. 159; p. 197.
Vehicle controlling mechanism. J. T. Whalen. No. 971,334; Sept. 27; Sp. p. 4649; Gaz. vol. 158; p. 813.
Vehicle controlling mechanism, Motor-. L. Whitcomb. No. 959,087; May 24; Sp. p. 5807; Gaz. vol. 154; p. 973.
Vehicle draft appliance. W. P. Maxwell. No. 969,645; Sept. 6; Sp. p. 1050; Gaz. vol. 158; p. 169.
Vehicle draft attachment. C. R. Barr. No. 968,730; Aug. 30; Sp. p. 6194; Gaz. vol. 157; p. 1082.
Vehicle draft attachment, Motor-. O. E. Ritzmann. No. 971,075; Sept. 27; Sp. p. 4137; Gaz. vol. 158; p. 730.
Vehicle driving and steering mechanism. D. A. Miller. No. 965,478; July 26; Sp. p. 5350; Gaz. vol. 156; p. 916.
Vehicle driving-gear. E. Byars. No. 968,447; Aug. 23; Sp. p. 5544; Gaz. vol. 157; p. 957.
Vehicle driving-gear, Motor-. W. Bushey. No. 967,722; Aug. 16; Sp. p. 4008; Gaz. vol. 157; p. 687.
Vehicle driving-gear, Motor-. W. Baird. No. 968,521; Aug. 30; Sp. p. 5718; Gaz. vol. 157; p. 1008.
Vehicle driving means, Motor-. K. C. Lassen. No. 949,828; Feb. 22; Sp. p. 4287; Gaz. vol. 151; p. 773.
Vehicle driving mechanism. J. F. Waite. No. 948,749; Feb. 8; Sp. p. 2054; Gaz. vol. 151; p. 351.
Vehicle driving mechanism. J. F. Waite. (Reissue.) No. 13,113; May 10; Sp. p. 2874; Gaz. vol. 154; p. 493.
Vehicle driving mechanism, Motor-. A. Winton and H. B. Anderson. No. 950,980; Mar. 1; Sp. p. 1079; Gaz. vol. 152; p. 173.
Vehicle driving mechanism, Motor-. F. M. Olson. No. 960,688; June 7; Sp. p. 915; Gaz. vol. 155; p. 152.
Vehicle driving mechanism, Motor-. A. B. Fowler. No. 969,140; Aug. 30; Sp. p. 7020; Gaz. vol. 157; p. 1221.
Vehicle driving mechanism, Motor-. K. A. Kendrick. No. 972,455; Oct. 11; Sp. p. 2028; Gaz. vol. 159; p. 355.
Vehicle dump-bed. D. W. Carr. No. 949,313; Feb. 15; Sp. p. 3207; Gaz. vol. 151; p. 565.
Vehicle, Dumping-. A. R. Piper. No. 967,970; Aug. 23; Sp. p. 4511; Gaz. vol. 157; p. 793.
Vehicle dumping-body. D. W. Carr. No. 949,314; Feb. 15; Sp. p. 3210; Gaz. vol. 151; p. 566.
Vehicle, Electric. F. E. Case. No. 946,753; Jan. 18; Sp. p. 3886; Gaz. vol. 150; p. 648.
Vehicle electric driving mechanism. A. Aichele. No. 960,140; May 31; Sp. p. 8049; Gaz. vol. 154; p. 1353.
Vehicle, Electrically-propelled. W. Köhler. No. 972,457; Oct. 11; Sp. p. 2031; Gaz. vol. 159; p. 356.
Vehicle emergency-brake. H. F. Dietz. No. 963,361; July 5; Sp. p. 795; Gaz. vol. 156; p. 117.
Vehicle equalizer-bars, Means for detachably supporting. L. E. Hickok. No. 974,144; Nov. 1; Sp. p. 75; Gaz. vol. 160; p. 15.
Vehicle-fender. C. Molin. No. 952,207; Mar. 15; Sp. p. 3517; Gaz. vol. 152; p. 633.

Alphabetical list of inventions—Continued.

Vehicle-fender. S. Baxter. No. 965,272; July 26; Sp. p. 4896; Gaz. vol. 156; p. 845.
Vehicle folding top. J. Teppert. No. 968,894; Aug. 30; Sp. p. 6526; Gaz. vol. 157; p. 1136.
Vehicle foot-rest. H. D. Hansford. No. 962,637; June 28; Sp. p. 5073; Gaz. vol. 155; p. 887.
Vehicle foot-rest, Motor-. R. Huff. No. 961,860; June 21; Sp. p. 3377; Gaz. vol. 155; p. 598.
Vehicle-frame. W. Kootz. No. 973,517; Oct. 25; Sp. p. 4416; Gaz. vol. 159; p. 772.
Vehicle-frame. W. S. Harley. No. 978,881; Dec. 20; Sp. p. 3137; Gaz. vol. 161; p. 557.
Vehicle-frame suspension. G. Fornaca. No. 979,278; Dec. 20; Sp. p. 4054; Gaz. vol. 161; p. 697.
Vehicle-gear. L. E. Hickok. No. 974,141; Nov. 1; Sp. p. 70; Gaz. vol. 160; p. 14.
Vehicle-gear. L. E. Hickok. No. 974,142; Nov. 1; Sp. p. 72; Gaz. vol. 160; p. 15.
Vehicle-gear. L. E. Hickok. No. 974,143; Nov. 1; Sp. p. 73; Gaz. vol. 160; p. 15.
Vehicle-gear. F. E. Wilcox. No. 977,769; Dec. 6; Sp. p. 773; Gaz. vol. 161; p. 120.
Vehicle-gear, Pneumatic. L. J. Perkins. No. 960,579; June 7; Sp. p. 698; Gaz. vol. 155; p. 115.
Vehicle-gearing. J. J. Charley. No. 967,728; Aug. 16; Sp. p. 4017; Gaz. vol. 157; p. 688.
Vehicle gearing, Motor-. C. Schmidt. No. 950,191; Feb. 22; Sp. p. 5122; Gaz. vol. 151; p. 899.
Vehicle-heater. G. S. Johnston. No. 969,784; Sept. 13; Sp. p. 1377; Gaz. vol. 158; p. 242.
Vehicle hood, Motor-. W. P. Mays. No. 959,571; May 31; Sp. p. 6815; Gaz. vol. 154; p. 1160.
Vehicle hood, Road-. C. Bertrand. No. 956,563; May 3; Sp. p. 117; Gaz. vol. 154; p. 22.
Vehicle-indicator. L. M. Tingley. No. 973,726; Oct. 25; Sp. p. 4856; Gaz. vol. 159; p. 845.
Vehicle-indicator. M. A. Martin. No. 979,526; Dec. 27; Sp. p. 4547; Gaz. vol. 161; p. 802.
Vehicle-lift. J. R. Lockerd. No. 964,113; July 12; Sp. p. 2397; Gaz. vol. 156; p. 393.
Vehicle-light. W. S. Bond. No. 964,379; July 12; Sp. p. 2915; Gaz. vol. 156; p. 481.
Vehicle-lock. D. Froehlich. No. 950,262; Feb. 22; Sp. p. 5274; Gaz. vol. 151; p. 925.
Vehicle lubricating means, Motor-. R. Huff. No. 962,509; June 28; Sp. p. 4790; Gaz. vol. 155; p. 844.
Vehicle, Motor-. B. D. Gray. No. 947,637; Jan. 25; Sp. p. 5870; Gaz. vol. 150; p. 974.
Vehicle, Motor-. R. Fuller. No. 948,317; Feb. 8; Sp. p. 1120; Gaz. vol. 151; p. 205.
Vehicle, Motor-. G. W. Perry, Jr. No. 948,341; Feb. 8; Sp. p. 1164; Gaz. vol. 151; p. 214.
Vehicle, Motor-. W. C. Price. No. 949,158; Feb. 15; Sp. p. 2900; Gaz. vol. 151; p. 514.
Vehicle, Motor-. G. Provot. No. 950,728; Mar. 1; Sp. p. 579; Gaz. vol. 152; p. 91.
Vehicle, Motor-. F. A. Messler and M. Bollstrom. No. 955,602; Apr. 19; Sp. p. 4125; Gaz. vol. 153; p. 717.
Vehicle, Motor-. F. H. Johnson. No. 958,501; May 17; Sp. p. 4563; Gaz. vol. 154; p. 748.
Vehicle, Motor-. J. J. Middlebrook. No. 958,519; May 17; Sp. p. 4602; Gaz. vol. 154; p. 755.
Vehicle, Motor-. E. Gerber. No. 959,851; May 31; Sp. p. 7399; Gaz. vol. 154; p. 1253.
Vehicle, Motor-. A. F. Rockwell. No. 961,372; June 14; Sp. p. 2330; Gaz. vol. 155; p. 411.
Vehicle, Motor-. G. W. Mascord. No. 963,609; July 5; Sp. p. 1301; Gaz. vol. 156; p. 200.
Vehicle, Motor-. W. Christie. No. 965,083; July 19; Sp. p. 4514; Gaz. vol. 156; p. 752.
Vehicle, Motor-. J. W. Sunderland. No. 965,605; July 26; Sp. p. 5646; Gaz. vol. 156; p. 961.
Vehicle, Motor-. T. J. Thorp. No. 965,607; July 26; Sp. p. 5654; Gaz. vol. 156; p. 962.
Vehicle, Motor-. A. P. Brush. No. 966,519; Aug. 9; Sp. p. 1475; Gaz. vol. 157; p. 253.
Vehicle, Motor-. C. A. Carlson. No. 974,745; Nov. 1; Sp. p. 1516; Gaz. vol. 160; p. 232.
Vehicle, Motor-. C. A. Carlson. No. 974,746; Nov. 1; Sp. p. 1518; Gaz. vol. 160; p. 233.
Vehicle, Motor-. V. Link. No. 976,193; Nov. 22; Sp. p. 4643; Gaz. vol. 160; p. 799.
Vehicle number-plate support. W. B. Hughes. No. 978,023; Dec. 6; Sp. p. 1295; Gaz. vol. 161; p. 207.
Vehicle or roller-coaster brake, Wheeled-. C. D. Orcutt. No. 967,423; Aug. 16; Sp. p. 3404; Gaz. vol. 157; p. 587.
Vehicle pneumatic cushion. G. J. Bancroft. No. 980,138; Dec. 27; Sp. p. 5910; Gaz. vol. 161; p. 1009.
Vehicle, Power dumping-. N. H. Nelson. No. 976,389; Nov. 22; Sp. p. 5113; Gaz vol. 160; p. 868.
Vehicle propelling means, Motor-. J. R. Faber. No. 955,146; Apr. 19; Sp. p. 3128; Gaz. vol. 153; p. 562.
Vehicle propelling mechanism, Motor-. E. Lacoste and E. Battmann. No. 959,231; May 24; Sp. p. 6104; Gaz. vol. 154; p. 1020.
Vehicle, Propulsion-. W. and H. Hopkins. No. 968,355; Aug. 23; Sp. p. 5367; Gaz. vol. 157; p. 926.
Vehicle-reach. H. Higgin. No. 972,191; Oct. 11; Sp. p. 1484; Gaz. vol. 159; p. 264.
Vehicle reach connection. W. St. Peter. No. 952,380; Mar. 15; Sp. p. 3858; Gaz. vol. 152; p. 691.
Vehicle-rim. I. Broome. No. 950,127; Feb. 22; Sp. p. 4989; Gaz. vol. 151; p. 877.
Vehicle-rim. A. A. Ley. No. 959,236; May 24; Sp. p. 6113; Gaz. vol. 154; p. 1022.
Vehicle-rim. M. L. Williams. No. 969,929; Sept. 13; Sp. p. 1694; Gaz. vol. 158; p. 292.
Vehicle-rim, Detachable. M. L. Williams. No. 969,930; Sept. 13; Sp. p. 1695; Gaz. vol. 158; p. 292.
Vehicle, Road-. M. R. D'Amora. No. 953,312; Mar. 29; Sp. p. 5871; Gaz. vol. 152; p. 1060.
Vehicle running-gear. D. H. Masters. No. 957,075; May 3; Sp. p. 1240; Gaz. vol. 154; p. 196.
Vehicle running-gear. E. Roblin. No. 969,080; Aug. 30; Sp. p. 6892; Gaz. vol. 157; p. 1200.
Vehicle running-gear. J. O. Smith. No. 972,658; Oct. 11; Sp. p. 2509; Gaz. vol. 159; p. 426.
Vehicle running-gear. H. E. Bradley. No. 975,392; Nov. 15; Sp. p. 2959; Gaz. vol. 160; p. 502.
Vehicle running-gear attachment. R. Grube. No. 966,327; Aug. 2; Sp. p. 1004; Gaz. vol. 157; p. 162.
Vehicle running-gear, Motor-. H. E. Wray. No. 967,698; Aug. 16; Sp. p. 3946; Gaz. vol. 157; p. 677.
Vehicle running-gear, Motor-. W. Juneau. No. 977,407; Nov. 29; Sp. p. 7354; Gaz. vol. 160; p. 1244.
Vehicle-seat. W. B. Bascom. No. 956,667; May 3; Sp. p. 346; Gaz. vol. 154; p. 57.
Vehicle-seat. L. S. Clarke and B. B. Bachman. No. 968,510; Aug. 23; Sp. p. 5686; Gaz. vol. 157; p. 979.
Vehicle-seat. C. B. Moore. No. 972,393; Oct. 11; Sp. p. 1900; Gaz. vol. 159; p. 333.
Vehicle-seat, Adjustable. R. G. Ledig. No. 958,410; May 17; Sp. p. 4388; Gaz. vol. 154; p. 716.
Vehicle-seat lock. E. M. Bauknecht. No. 978,104; Dec. 6; Sp. p. 1466; Gaz. vol. 161; p. 236.
Vehicle-seat, Supplementary. F. F. Breihan. No. 961,480; June 14; Sp. p. 2555; Gaz. vol. 155; p. 447.
Vehicle shock-absorber. H. Muehlhausen, Jr., and J. Thomsen. No. 946,555; Jan. 18; Sp. p. 3468; Gaz. vol. 150; p. 583.
Vehicle shock-absorber. T. Lea. No. 958,510; May 17; Sp. p. 4580; Gaz. vol. 154; p. 752.
Vehicle shock-absorber. J. Riley and R. D. Hunt. No. 959,170; May 24; Sp. p. 5984; Gaz. vol. 154; p. 1000.
Vehicle shock-absorber. H. W. Cummings. No. 970,611; Sept. 20; Sp. p. 3122; Gaz. vol. 158; p. 544.
Vehicle shock-absorber. W. Kootz. No. 973,516; Oct. 25; Sp. p. 4415; Gaz. vol. 159; p. 772.
Vehicle shock-absorber. W. J. Pierce. No. 979,032; Dec. 20; Sp. p. 3490; Gaz. vol. 161; p. 611.
Vehicle shock-absorber. C. G. Polleys. No. 979,694; Dec. 27; Sp. p. 4908; Gaz. vol. 161; p. 861.
Vehicle signal, Motor-. R. M. Pierson. No. 961,158; June 14; Sp. p. 1848; Gaz. vol. 155; p. 335.
Vehicle, Single-track. R. Scherl. No. 959,077; May 24; Sp. p. 5786; Gaz. vol. 154; p. 970.
Vehicle-spindles, Babbitting worn. J. L. Cramer. No. 980,071; Dec. 27; Sp. p. 5736; Gaz. vol. 161; p. 986.
Vehicle-spring. C. A. Lieb No. 945,725; Jan. 4; Sp. p. 1555; Gaz. vol. 150; p. 240.
Vehicle-spring. L. Sgal and J. Schwanda. No. 947,653; Jan. 25; Sp. p. 5905; Gaz. vol. 150; p. 981.
Vehicle-spring. D. R. Close. No. 949,112; Feb. 15; Sp. p. 2809; Gaz. vol. 151; p. 497.
Vehicle-spring. W. H. Smith and J. H. Klassen. No. 949,308; Feb. 15; Sp. p. 3198; Gaz. vol. 151; p. 564.
Vehicle-spring. R. W. Morse. No. 953,750; Apr. 5; Sp. p. 139; Gaz. vol. 153; p. 27.
Vehicle-spring. C. B. Geiger. No. 959,336; May 24; Sp. p. 6311; Gaz. vol. 154; p. 1055.
Vehicle-spring. H. W. Smith. No. 959,892; May 31; Sp. p. 7499; Gaz. vol. 154; p. 1267.
Vehicle-spring. A. M. Kindwall. No. 960,178; May 31; Sp. p. 8123; Gaz. vol. 154; p. 1366.
Vehicle-spring. A. A. Pochyla and H. A. King. No. 960,395; June 7; Sp. p. 327; Gaz. vol. 155; p. 54.
Vehicle-spring. W. E. Eastman. No. 962,557; June 28; Sp. p. 4917; Gaz. vol. 155; p. 861.
Vehicle-spring. D. R. Close. No. 963,870; July 12; Sp. p. 1894; Gaz. vol. 156; p. 311.
Vehicle-spring. K. W. Hammer and C. L. Crist. No. 965,579; July 26; Sp. p. 5596; Gaz. vol. 156; p. 952.
Vehicle-spring. C. A. Meredith. No. 970,527; Sept. 20; Sp. p. 2956; Gaz. vol. 158; p. 512.
Vehicle-spring arrangement. J. Rosemeyer. No. 958,544; May 17; Sp. p. 4644; Gaz. vol. 154; p. 763.
Vehicle-spring brace, Auxiliary-. W. Young. No. 966,510; Aug. 9; Sp. p. 1461; Gaz. vol. 157; p. 250.
Vehicle-spring fastener. W. B. Cook. No. 977,934; Dec. 6; Sp. p. 1113; Gaz. vol. 161; p. 178.
Vehicle spring-gear. N. J. Anderson. No. 972,145; Oct. 11; Sp. p. 1367; Gaz. vol. 159; p. 250.
Vehicle-spring, Shock-absorbing. N. Luxembourger. No. 979,016; Dec. 20; Sp. p. 3453; Gaz. vol. 161; p. 606.
Vehicle-spring support. E. D. Toops. No. 974,313; Nov. 1; Sp. p. 534; Gaz. vol. 160; p. 79.
Vehicle spring suspension. P. Morren. No. 977,392; Nov. 29; Sp. p. 7293; Gaz. vol. 160; p. 1239.
Vehicle spring-suspension arrangement. C. E. Rennen and W. Romeiser. No. 971,475; Sept. 27; Sp. p. 4907; Gaz. vol. 158; p. 859.

Vehicle spring-wheel. F. W. Margetts. No. 950,049; Feb. 22; Sp. p. 4842; Gaz. vol. 151; p. 852.
Vehicle starting device, Motor-. A. E. Garnier. No. 952,800; Mar. 22; Sp. p. 4800; Gaz. vol. 152; p. 863.
Vehicle steering and cranking mechanism, Motor-driven-. B. C. Riblet. No. 965,014; July 19; Sp. p. 4370; Gaz. vol. 156; p. 729.
Vehicle steering device. O. Winkler. No. 968,303; Aug. 23; Sp. p. 5265; Gaz. vol. 157; p. 907.
Vehicle steering device. A. D. Baker. No. 969,766; Sept. 13; Sp. p. 1331; Gaz. vol. 158; p. 235.
Vehicle steering-wheel, Traction-. C. W. Hart. No. 950,045; Feb. 22; Sp. p. 4834; Gaz. vol. 151; p. 850.
Vehicle-step. A. L. Burns. No. 956,933; May 3; Sp. p. 935; Gaz. vol. 154; p. 149.
Vehicle-step. G. P. H. Nelson. No. 966,043; Aug. 2; Sp. p. 436; Gaz. vol. 157; p. 70.
Vehicle storm-front. F. L. Moore. No. 950,237; Feb. 22; Sp. p. 5226; Gaz. vol. 151; p. 916.
Vehicle storm-front. G. W. Scott. No. 965,233; July 26; Sp. p. 4809; Gaz. vol. 156; p. 832.
Vehicle storm-shield. J. E. Thompson. No. 973,585; Oct. 25; Sp. p. 4555; Gaz. vol. 159; p. 795.
Vehicle-supporting means. B. J. Diplock. No. 979,447; Dec. 27; Sp. p. 4380; Gaz. vol. 161; p. 775.
Vehicle suspension arrangement, Road-. F. Walton. No. 964,589; July 19; Sp. p. 3417; Gaz. vol. 156; p. 584.
Vehicle suspension, Road-. F. Walton. No. 959,661; May 31; Sp. p. 6986; Gaz. vol. 154; p. 1189.
Vehicle-top. H. C. Martell. No. 960,979; June 7; Sp. p. 1481; Gaz. vol. 155; p. 249.
Vehicle-top. G. F. Brewster. No. 965,864; Aug. 2; Sp. p. 33; Gaz. vol. 157; p. 8.
Vehicle-top. S. Ranley and J. A. Schirack. No. 968,193; Aug. 23; Sp. p. 5033; Gaz. vol. 157; p. 868.
Vehicle-top bow-holder. S. T. Allen. No. 962,487; June 28; Sp. p. 4749; Gaz. vol. 155; p. 836.
Vehicle-top bow-holder. C. L. Bair. No. 967,305; Aug. 16; Sp. p. 3149; Gaz. vol. 157; p. 545.
Vehicle-top bow-rest. N. J. McLean. No. 952,131; Mar. 15; Sp. p. 3380; Gaz. vol. 152; p. 608.
Vehicle-top, Foldable. A. L. Dallaire. No. 946,658; Jan. 18; Sp. p. 3683; Gaz. vol. 150; p. 616.
Vehicle-top rest. P. Henry. No. 954,571; Apr. 12; Sp. p. 1863; Gaz. vol. 153; p. 333.
Vehicle-top support. J. W. Troy. No. 977,845; Dec. 6; Sp. p. 921; Gaz. vol. 161; p. 146.
Vehicle-tops, Front-fastening device for. A. E. Smith. No. 979,893; Dec. 27; Sp. p. 5365; Gaz. vol. 161; p. 927.
Vehicle-washer. E. Muller. No. 948,337; Feb. 8; Sp. p. 1155; Gaz. vol. 151; p. 212.
Vehicle-wheel. B. P. Cooper. No. 946,112; Jan. 11; Sp. p. 2426; Gaz. vol. 150; p. 404.
Vehicle-wheel. R. J. Moore. No. 946,614; Jan. 18; Sp. p. 3587; Gaz. vol. 150; p. 603.
Vehicle-wheel. H. E. Cherry. No. 948,042; Feb. 1; Sp. p. 551; Gaz. vol. 151; p. 88.
Vehicle-wheel. O. Schott. No. 948,076; Feb. 1; Sp. p. 621; Gaz. vol. 151; p. 101.
Vehicle-wheel. E. S. Williamson. No. 948,621; Feb. 8; Sp. p. 1788; Gaz. vol. 151; p. 307.
Vehicle-wheel. J. C. Rutherford. No. 949,636; Feb. 15; Sp. p. 3868; Gaz. vol. 151; p. 674.
Vehicle-wheel. N. Schenk. No. 950,407; Feb. 22; Sp. p. 5541; Gaz. vol. 151; p. 971.
Vehicle-wheel. L. Bloch. No. 951,173; Mar. 8; Sp. p. 1434; Gaz. vol. 152; p. 260.
Vehicle-wheel. A. H. Towle. No. 951,384; Mar. 8; Sp. p. 1879; Gaz. vol. 152; p. 328.
Vehicle-wheel. W. Schuetze. No. 952,019; Mar. 15; Sp. p. 3169; Gaz. vol. 152; p. 570.
Vehicle-wheel. R. C. Duguid. No. 953,780; Apr. 5; Sp. p. 194; Gaz. vol. 153; p. 36.
Vehicle-wheel. E. F. Maybaum. No. 953,916; Apr. 5; Sp. p. 460; Gaz. vol. 153; p. 84.
Vehicle-wheel. J. W. Salladay. No. 955,440; Apr. 19; Sp. p. 3765; Gaz. vol. 153; p. 661.
Vehicle-wheel. J. H. Watters. No. 956,459; Apr. 26; Sp. p. 6011; Gaz. vol. 153; p. 1043.
Vehicle-wheel. C. B. Nichols. No. 956,724; May 3; Sp. p. 480; Gaz. vol. 154; p. 77.
Vehicle-wheel. C. D. Anderson. No. 958,350; May 17; Sp. p. 4266; Gaz. vol. 154; p. 696.
Vehicle-wheel. M. W. Rosenshine. No. 958,439; May 17; Sp. p. 4452; Gaz. vol. 154; p. 727.
Vehicle-wheel. A. Brisbane. No. 959,705; May 31; Sp. p. 7082; Gaz. vol. 154; p. 1202.
Vehicle-wheel. A. Brisbane. No. 959,706; May 31; Sp. p. 7084; Gaz. vol. 154; p. 1203.
Vehicle-wheel. A. Brisbane. No. 959,707; May 31; Sp. p. 7085; Gaz. vol. 154; p. 1203.
Vehicle-wheel. J. H. Watters. No. 960,460; June 7; Sp. p. 436; Gaz. vol. 155; p. 74.
Vehicle-wheel. J. L. Day. No. 960,513; June 7; Sp. p. 550; Gaz. vol. 155; p. 91.
Vehicle-wheel. F. R. Dudley. No. 962,010; June 21; Sp. p. 3679; Gaz. vol. 155; p. 647.
Vehicle-wheel. F. Tompkins. No. 962,066; June 21; Sp. p. 3812; Gaz. vol. 155; p. 667.
Vehicle-wheel. W. W. Macfarren. No. 963,304; July 5; Sp. p. 687; Gaz. vol. 156; p. 98.
Vehicle-wheel. S. E. Chapman. No. 963,990; July 12; Sp. p. 2144; Gaz. vol. 156; p. 350.
Vehicle-wheel. J. M. Benham and G. W. Slater. No. 964,462; July 12; Sp. p. 3081; Gaz. vol. 156; p. 506.
Vehicle-wheel. S. Z. de Ferranti. No. 964,632; July 19; Sp. p. 3495; Gaz. vol. 156; p. 598.
Vehicle-wheel. G. Dorffel. No. 967,740; Aug. 16; Sp. p. 4049; Gaz. vol. 157; p. 693.
Vehicle-wheel. L. G. Fleming. No. 968,337; Aug. 23; Sp. p. 5335; Gaz. vol. 157; p. 919.
Vehicle-wheel. T. W. Baker. No. 969,241; Sept. 6; Sp. p. 201; Gaz. vol. 158; p. 33.
Vehicle-wheel. J. Illingworth. No. 969,536; Sept. 6; Sp. p. 825; Gaz. vol. 158; p. 130.
Vehicle-wheel. H. Scullin. No. 970,126; Sept. 13; Sp. p. 2102; Gaz. vol. 158; p. 358.
Vehicle-wheel. S. M. Friedman. No. 970,911; Sept. 20; Sp. p. 3786; Gaz. vol. 158; p. 646.
Vehicle-wheel. C. Kindscherf. No. 971,384; Sept. 27; Sp. p. 4752; Gaz. vol. 158; p. 830.
Vehicle-wheel. J. H. Esders. No. 971,434; Sept. 27; Sp. p. 4832; Gaz. vol. 158; p. 846.
Vehicle-wheel. A. E. Ellis. No. 972,606; Oct. 11; Sp. p. 2393; Gaz. vol. 159; p. 409.
Vehicle-wheel. G. H. Thomas. No. 972,734; Oct. 11; Sp. p. 2669; Gaz. vol. 159; p. 453.
Vehicle-wheel. J. M. Selleck. No. 972,930; Oct. 18; Sp. p. 3136; Gaz. vol. 159; p. 548.
Vehicle-wheel. C. H. Bailey. No. 973,249; Oct. 18; Sp. p. 3842; Gaz. vol. 159; p. 657.
Vehicle-wheel. C. Humbert and J. C. Beugnot. No. 973,436; Oct. 18; Sp. p. 4238; Gaz. vol. 159; p. 722.
Vehicle-wheel. E. J. Estey. No. 974,250; Nov. 1; Sp. p. 376; Gaz. vol. 160; p. 55.
Vehicle-wheel. G. E. Woodbury. No. 975,378; Nov. 8; Sp. p. 2922; Gaz. vol. 160; p. 471.
Vehicle-wheel. B. W. Hammond. No. 976,360; Nov. 22; Sp. p. 5050; Gaz. vol. 160; p. 857.
Vehicle-wheel. O. Treier. No. 976,710; Nov. 22; Sp. p. 5770; Gaz. vol. 160; p. 977.
Vehicle-wheel. S. L. Simpson. No. 976,938; Nov. 29; Sp. p. 6313; Gaz. vol. 160; p. 1082.
Vehicle-wheel. W. Q. Kennedy. No. 977,195; Nov. 29; Sp. p. 6901; Gaz. vol. 160; p. 1172.
Vehicle-wheel. T. L. May. No. 977,463; Dec. 6; Sp. p. 74; Gaz. vol. 161; p. 15.
Vehicle-wheel. W. Haslup. No. 977,737; Dec. 6; Sp. p. 700; Gaz. vol. 161; p. 109.
Vehicle-wheel. O. G. Worsley. No. 977,846; Dec. 6; Sp. p. 922; Gaz. vol. 161; p. 146.
Vehicle-wheel. A. Westphal. No. 978,249; Dec. 13; Sp. p. 1807; Gaz. vol. 161; p. 316.
Vehicle-wheel. J. H. Harvey. No. 978,289; Dec. 13; Sp. p. 1894; Gaz. vol. 161; p. 332.
Vehicle-wheel. W. H. Fahrney. No. 979,269; Dec. 20; Sp. p. 4034; Gaz. vol. 161; p. 694.
Vehicle-wheel, Cushion. L. R. and R. L. Gruss. No. 967,515; Aug. 16; Sp. p. 3596; Gaz. vol. 157; p. 617.
Vehicle-wheel, Cushion-tread. H. C. Brown. No. 976,846; Nov. 29; Sp. p. 6092; Gaz. vol. 160; p. 1049.
Vehicle-wheel, Cushioned. M. H. Aldridge. No. 971,100; Sept. 27; Sp. p. 4180; Gaz. vol. 158; p. 737.
Vehicle-wheel, Resilient. J. Norgren. No. 952,754; Mar. 22; Sp. p. 4689; Gaz. vol. 152; p. 848.
Vehicle-wheel, Resilient. J. Gaynor. No. 969,266; Sept. 6; Sp. p. 247; Gaz. vol. 158; p. 40.
Vehicle-wheel, Resilient. J. Gaynor. No. 977,520; Dec. 6; Sp. p. 232; Gaz. vol. 161; p. 35.
Vehicle-wheel, Spring. H. W. Schmidt. No. 973,569; Oct. 25; Sp. p. 4522; Gaz. vol. 159; p. 790.
Vehicle, Wheeled. J. Kuebodeaux. No. 953,697; Apr. 5; Sp. p. 36; Gaz. vol. 153; p. 9.
Vehicle wind-screen, Adjustable. C. Steane. No. 953,804; Apr. 5; Sp. p. 248; Gaz. vol. 153; p. 44.
Vehicle wind-shield. C. Tolman. No. 953,723; Apr. 5; Sp. p. 79; Gaz. vol. 153; p. 17.
Vehicle wind-shield. H. W. Bertram and F. L. Lamoreaux. No. 957,541; May 10; Sp. p. 2233; Gaz. vol. 154; p. 386.
Vehicle wind-shield. C. O. Doan. No. 977,174; Nov. 29; Sp. p. 6853; Gaz. vol. 160; p. 1164.
Vehicle wind-shield. W. H. Winslow. No. 978,254; Dec. 13; Sp. p. 1816; Gaz. vol. 161; p. 318.
Vehicles, Air-deflector for. P. J. Schrader. No. 953,350; Mar. 29; Sp. p. 5963; Gaz. vol. 152; p. 1075.
Vehicles and the like, Transmission-gear mechanism for motor-. C. A. McKiearnan. No. 960,573; June 7; Sp. p. 687; Gaz. vol. 155; p. 113.
Vehicles, Apparatus for automatically raising. F. Briault. No. 972,502; Oct. 11; Sp. p. 2134; Gaz. vol. 159; p. 371.
Vehicles, Appliance for preventing side slipping of wheels on motor-. A. A. Mansell and G. Smith. No. 949,190; Feb. 15; Sp. p. 2962; Gaz. vol. 151; p. 524.
Vehicles, Automatic stopping device for motor-. V. Emden and F. H. Dearborn. No. 956,952; May 3; Sp. p. 992; Gaz. vol. 154; p. 155.
Vehicles by compressed air, System and apparatus for propelling. J. O. Cobb. No. 969,772; Sept. 13; Sp. p. 1342; Gaz. vol. 158; p. 237.
Vehicles, Coin control for motor-. A. P. Browne. No. 964,845; July 19; Sp. p. 4035; Gaz. vol. 156; p. 672.

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Vehicles, Current-collector for electrically-propelled. W. Köhler. No. 973,672; Oct. 25; Sp. p. 4755; Gaz. vol. 159; p. 826.
Vehicles, Elastic suspension for. L. Basso. No. 948,689; Feb. 8; Sp. p. 1926; Gaz. vol. 151; p. 331.
Vehicles, Fluid-equalizing support for. H. Van Dyken. No. 956,455; Apr. 26; Sp. p. 5999; Gaz. vol. 153; p. 1041.
Vehicles, Folding hood-framing for road-. P. W. Watson, Jr. No. 957,827; May 10; Sp. p. 2801; Gaz. vol. 154; p. 481.
Vehicles, Frictional retarding means for spring-. J. M. M. Truffault. (Reissue.) No. 13,073; Jan. 4; Sp. p. 1605; Gaz. vol. 150; p. 249.
Vehicles, Hand steering-wheel for motor-. G. Frentzen. No. 949,297; Feb. 15; Sp. p. 3178; Gaz. vol. 151; p. 560.
Vehicles, Hood for motor or other. J. S. Cree. No. 960,832; June 7; Sp. p. 1202; Gaz. vol. 155; p. 200.
Vehicles, Hood for use on road-. D. T. Brock and E. Reeve. No. 952,183; Mar. 15; Sp. p. 3467; Gaz. vol. 152; p. 624.
Vehicles, Lamp attachment for. T. L. and J. A. Riney. No. 972,573; Oct. 11; Sp. p. 2323; Gaz. vol. 159; p. 398.
Vehicles, Lighting system for self-propelled. H. J. Bishop and J. K. Delano, Jr. No. 953,584; Mar. 29; Sp. p. 6473; Gaz. vol. 152; p. 1157.
Vehicles, Means for locking the steering mechanism of motor-. A. B. Walters. No. 961,390; June 14; Sp. p. 2359; Gaz. vol. 155; p. 417.
Vehicles, Pneumatic spring suspension for. G. A. Rhoads. No. 955,692; Apr. 19; Sp. p. 4327; Gaz. vol. 153; p. 748.
Vehicles, Portable testing device for mechanically-propelled. F. I. Spellman. No. 976,705; Nov. 22; Sp. p. 5760; Gaz. vol. 160; p. 975.
Vehicles, reaches, &c., Joint or coupling for. S. J. Pearson. No. 963,937; July 12; Sp. p. 2017; Gaz. vol. 156; p. 332.
Vehicles, Receiving and delivering apparatus for traveling. H. F. Bittlinger and J. J. Ennis. No. 968,639; Aug. 30; Sp. p. 5962; Gaz. vol. 157; p. 1050.
Vehicles, Removable storm-cab for. W. A. Hunter. No. 955,404; Apr. 19; Sp. p. 3698; Gaz. vol. 153; p. 650.
Vehicles, Resilient apparatus for. C. G. Polleys. No. 979,695; Dec. 27; Sp. p. 4909; Gaz. vol. 161; p. 861.
Vehicles, Road-indicator for. F. Feilhuber. No. 951,637; Mar. 8; Sp. p. 2384; Gaz. vol. 152; p. 413.
Vehicles, Spring-fork for wheeled. C. R. Kittle and J. W. Gates. No. 979,674; Dec. 27; Sp. p. 4872; Gaz. vol. 161; p. 854.
Vehicles, Variable transmission mechanism for motor-. L. M. J. C. Levavasseur. No. 952,433; Mar. 15; Sp. p. 3959; Gaz. vol. 152; p. 709.
Vehicles, Wind-shield for self-propelled. G. W. Kerr. (Reissue.) No. 13,086; Mar. 1; Sp. p. 1285; Gaz. vol. 152; p. 211.
Veil, Automobile-. J. V. Siegel. No. 958,329; May 17; Sp. p. 4230; Gaz. vol. 154; p. 690.
Veil, Automobile-. J. V. Siegel. No. 976,510; Nov. 22; Sp. p. 5361; Gaz. vol. 160; p. 910.
Veil holder or retainer for bonnets. J. Rostenberg. No. 971,476; Sept. 27; Sp. p. 4908; Gaz. vol. 158; p. 859.
Velocipede. M. Slotkin. No. 946,280; Jan. 11; Sp. p. 2790; Gaz. vol. 150; p. 464.
Velocipede. E. V. Turner. No. 959,656; May 31; Sp. p. 6980; Gaz. vol. 154; p. 1188.
Velocipede. F. A. Gagnon. No. 980,092; Dec. 27; Sp. p. 5788; Gaz. vol. 161; p. 992.
Velocipede propelling mechanism. J. T. Plummer. No. 970,109; Sept. 13; Sp. p. 2074; Gaz. vol. 158; p. 352.
Vending apparatus. A. H. Arnold. No. 948,914; Feb. 8; Sp. p. 2383; Gaz. vol. 151; p. 406.
Vending apparatus. J. Whistler and R. A. Dudeck. No. 962,283; June 21; Sp. p. 4293; Gaz. vol. 155; p. 742.
Vending apparatus. J. T. Davis. No. 963,748; July 12; Sp. p. 1601; Gaz. vol. 156; p. 269.
Vending apparatus. I. F. Harris. No. 969,619; Sept. 6; Sp. p. 1001; Gaz. vol. 158; p. 160.
Vending apparatus. A. Heaton. No. 972,532; Oct. 11; Sp. p. 2216; Gaz. vol. 159; p. 383.
Vending apparatus. M. P. Henvis. No. 979,854; Dec. 27; Sp. p. 5285; Gaz. vol. 161; p. 915.
Vending apparatus, Coin-controlled. L. L. Martin. No. 951,018; Mar. 1; Sp. p. 1139; Gaz. vol. 152; p. 185.
Vending apparatus, Coin-controlled. T. H. Duncombe. No. 953,739; Apr. 5; Sp. p. 115; Gaz. vol. 153; p. 23.
Vending apparatus, Liquid-. J. Zill. No. 973,903; Oct. 25; Sp. p. 5230; Gaz. vol. 159; p. 907.
Vending apparatus, Ticket-. G. F. Day. No. 954,787; Apr. 12; Sp. p. 2364; Gaz. vol. 153; p. 409.
Vending device. C. L. Newton. No. 975,887; Nov. 15; Sp. p. 3985; Gaz. vol. 160; p. 672.
Vending-machine. J. N. Karr. No. 945,126; Jan. 4; Sp. p. 241; Gaz. vol. 150; p. 42.
Vending-machine. A. B. Jones. No. 948,226; Feb. 1; Sp. p. 914; Gaz. vol. 151; p. 149.
Vending-machine. J. H. Carroll. No. 948,660; Feb. 8; Sp. p. 1862; Gaz. vol. 151; p. 321.
Vending-machine. W. Asbury. No. 948,838; Feb. 8; Sp. p. 2244; Gaz. vol. 151; p. 381.
Vending-machine. A. Rydquist. No. 949,914; Feb. 22; Sp. p. 4499; Gaz. vol. 151; p. 803.
Vending-machine. A. B. Jones. No. 951,733; Mar. 8; Sp. p. 2563; Gaz. vol. 152; p. 444.
Vending-machine. B. Lovatt. No. 952,536; Mar. 22; Sp. p. 4210; Gaz. vol. 152; p. 772.
Vending-machine. J. F. Moulton. No. 954,873; Apr. 12; Sp. p. 2586; Gaz. vol. 153; p. 440.
Vending-machine. J. F. Krcma. No. 957,971; May 17; Sp. p. 3191; Gaz. vol. 154; p. 563.
Vending-machine. R. F. Downey. No. 958,237; May 17; Sp. p. 3880; Gaz. vol. 154; p. 655.
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Vending-machine. P. S. Bloch. No. 959,449; May 31; Sp. p. 6539; Gaz. vol. 154; p. 1117.
Vending-machine. H. S. Pond. No. 959,598; May 31; Sp. p. 6865; Gaz. vol. 154; p. 1168.
Vending-machine. M. J. Walther. No. 961,051; June 7; Sp. p. 1630; Gaz. vol. 155; p. 273.
Vending-machine. H. Werden. No. 961,277; June 14; Sp. p. 2115; Gaz. vol. 155; p. 379.
Vending-machine. W. E. Hales. No. 961,694; June 14; Sp. p. 2990; Gaz. vol. 155; p. 518.
Vending-machine. E. W. Werden and S. L. W. Coe. No. 964,591; July 19; Sp. p. 3421; Gaz. vol. 156; p. 584.
Vending-machine. H. W. Lundquist. No. 964,988; July 19; Sp. p. 4322; Gaz. vol. 156; p. 721.
Vending-machine. A. Downey. No. 967,347; Aug. 16; Sp. p. 3237; Gaz. vol. 157; p. 561.
Vending-machine. C. E. Davison. No. 969,040; Aug. 30; Sp. p. 6804; Gaz. vol. 157; p. 1185.
Vending-machine. P. S. Bloch. No. 969,330; Sept. 6; Sp. p. 375; Gaz. vol. 158; p. 61.
Vending-machine. J. M. Thornber. No. 969,735; Sept. 6; Sp. p. 1241; Gaz. vol. 158; p. 200.
Vending-machine. J. Kriz and F. Schorik. No. 969,883; Sept. 13; Sp. p. 1600; Gaz. vol. 158; p. 275.
Vending-machine. L. H. Dupont. No. 972,350; Oct. 11; Sp. p. 1812; Gaz. vol. 159; p. 318.
Vending-machine. W. F. Ablett. No. 973,332; Oct. 18; Sp. p. 4012; Gaz. vol. 159; p. 685.
Vending-machine. I. F. Harris. No. 973,939; Oct. 25; Sp. p. 5293; Gaz. vol. 159; p. 919.
Vending-machine. J. W. Patterson. No. 974,813; Nov. 8; Sp. p. 1660; Gaz. vol. 160; p. 278.
Vending-machine. J. W. Patterson. No. 974,814; Nov. 8; Sp. p. 1662; Gaz. vol. 160; p. 279.
Vending-machine. M. McAneny. No. 976,089; Nov. 15; Sp. p. 4369; Gaz. vol. 160; p. 742.
Vending-machine. A. H. Koch. No. 977,745; Dec. 6; Sp. p. 717; Gaz. vol. 161; p. 112.
Vending-machine. E. E. Sullivan. No. 979,596; Dec. 27; Sp. p. 4710; Gaz. vol. 161; p. 827.
Vending-machine. W. R. Williams. No. 979,625; Dec. 27; Sp. p. 4769; Gaz. vol. 161; p. 838.
Vending-machine. R. F. Downey. No. 979,833; Dec. 27; Sp. p. 5245; Gaz. vol. 161; p. 908.
Vending-machine, Automatic. J. Levin. No. 945,178; Jan. 4; Sp. p. 352; Gaz. vol. 150; p. 59.
Vending-machine, Automatic. J. A. Evans. No. 965,574; July 26; Sp. p. 5587; Gaz. vol. 156; p. 950.
Vending-machine, Automatic. B. M. Davis. No. 977,437; Dec. 6; Sp. p. 18; Gaz. vol. 161; p. 6.
Vending machine, Bottle-. J. H. Mathewson. No. 951,323; Mar. 8; Sp. p. 1757; Gaz. vol. 152; p. 309.
Vending machine, Bottle-. J. B. Clay. No. 969,747; Sept. 6; Sp. p. 1278; Gaz. vol. 158; p. 205.
Vending machine, Card-. R. F. Downey. No. 959,482; May 31; Sp. p. 6615; Gaz. vol. 154; p. 1129.
Vending-machine, Check-controlled. W. B. Pulver. No. 945,488; Jan. 4; Sp. p. 1048; Gaz. vol. 150; p. 161.
Vending-machine check-controlled mechanism. W. H. McMannus. No. 967,418; Aug. 16; Sp. p. 3398; Gaz. vol. 157; p. 585.
Vending machine, Cigar-. H. W. Smiley and R. M. Moore. No. 950,081; Feb. 22; Sp. p. 4893; Gaz. vol. 151; p. 861.
Vending machine, Cigar-. H. R. Stouder. No. 958,191; May 17; Sp. p. 3793; Gaz. vol. 154; p. 641.
Vending machine, Cigar-. W. D. Evans and J. T. Marshall. No. 962,825; June 28; Sp. p. 5452; Gaz. vol. 155; p. 953.
Vending machine, Cigar-. H. J. Davidson. No. 963,999; July 12; Sp. p. 2159; Gaz. vol. 156; p. 353.
Vending-machine, Coin. A. Coseglia. No. 970,801; Sept. 20; Sp. p. 3578; Gaz. vol. 158; p. 612.
Vending-machine, Coin-controlled. E. H. Cook. No. 945,699; Jan. 4; Sp. p. 1472; Gaz. vol. 150; p. 231.
Vending-machine, Coin-controlled. F. Peters and W. Schmidt. No. 947,755; Jan. 25; Sp. p. 6073; Gaz. vol. 150; p. 1013.
Vending-machine, Coin-controlled. C. C. Clawson. No. 969,844; Sept. 13; Sp. p. 1527; Gaz. vol. 158; p. 262.
Vending-machine. Coin-controlled. J. H. Sencindiver. No. 977,683; Dec. 6; Sp. p. 594; Gaz. vol. 161; p. 91.
Vending-machine, Coin-controlled. J. H. Sencindiver. No. 978,068; Dec. 6; Sp. p. 1387; Gaz. vol. 161; p. 223.
Vending-machine coin-controlled delivery mechanism. C. M. Linde and F. C. Franke. No. 960,356; June 7; Sp. p. 240; Gaz. vol. 155; p. 41.
Vending-machine coin-controlled mechanism. B. Lovatt. No. 952,537; Mar. 22; Sp. p. 4214; Gaz. vol. 152; p. 773.
Vending-machine coin-controlled mechanism. L. A. Vandiver. No. 970,280; Sept. 13; Sp. p. 2435; Gaz. vol. 158; p. 411.

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Vending-machine coin-controlled mechanism, Automatic-. H. C. Fleming. No. 973,492; Oct. 25; Sp. p. 4367; Gaz. vol. 159; p. 764.
Vending machine, Coin-controlled stamp-. C. Elliott. No. 965,996; Aug. 2; Sp. p. 325; Gaz. vol. 157; p. 53.
Vending-machine coin-controlling mechanism. C. A. Dawes. No. 967,111; Aug. 9; Sp. p. 2755; Gaz. vol. 157; p. 452.
Vending-machine, Coin-operated. J. Starr. No. 957,720; May 10; Sp. p. 2583; Gaz. vol. 154; p. 447.
Vending-machine, Coin-operated. H. R. Canfield. No. 966,734; Aug. 9; Sp. p. 1926; Gaz. vol. 157; p. 326.
Vending-machine, Coin-operated. H. R. Canfield. No. 966,795; Aug. 9; Sp. p. 2085; Gaz. vol. 157; p. 347.
Vending machine, Coin-operated newspaper-. P. Wesser. No. 953,451; Mar. 29; Sp. p. 6185; Gaz. vol. 152; p. 1109.
Vending-machine for insurance-policies, tickets, &c., Automatic coin-controlled. H. O. Jackson. No. 952,809; Mar. 22; Sp. p. 4814; Gaz. vol. 152; p. 866.
Vending machine, Merchandise-. H. E. Hunter. No. 962,639; June 28; Sp. p. 5075; Gaz. vol. 155; p. 887.
Vending machine, Newspaper-. C. A. Dawes. No. 967,112; Aug. 9; Sp. p. 2759; Gaz. vol. 157; p. 453.
Vending machine, Perfume-. A. F. Vorce. No. 955,723; Apr. 19; Sp. p. 4402; Gaz. vol. 153; p. 759.
Vending machine, Stamp-. S. L. Long. No. 954,816; Apr. 12; Sp. p. 2449; Gaz. vol. 153; p. 419.
Vending machine, Stamp-. F. J. Schumann. No. 957,112; May 3; Sp. p. 1304; Gaz. vol. 154; p. 208.
Vending machine, Stamp-. E. A. Nielsen and F. C. Petersen. No. 969,973; Sept. 13; Sp. p. 1798; Gaz. vol. 158; p. 305.
Vending machine, Stamp and ticket. E. E. Wigzell. No. 955,032; Apr. 12; Sp. p. 2913; Gaz. vol. 153; p. 493.
Vending machine, Stamp or ticket. H. D. Ebert. No. 971,531; Oct. 4; Sp. p. 41; Gaz. vol. 159; p. 10.
Vending machine, Ticket-. W. Hollingsworth. No. 954,393; Apr. 5; Sp. p. 1471; Gaz. vol. 153; p. 245.
Vending machine, Ticket-. W. F. Trippensee. No. 973,896; Oct. 25; Sp. p. 5216; Gaz. vol. 159; p. 905.
Vending-machines, Centering mechanism for rotary. E. S. Hagen. No. 958,491; May 17; Sp. p. 4548; Gaz. vol. 154; p. 745.
Vending-machines, &c., Coin-controlled mechanism for. E. I. Garson. No. 965,290; July 26; Sp. p. 4933; Gaz. vol. 156; p. 851.
Vending-machines, Coin device for. F. W. Smith. No. 947,087; Jan. 18; Sp. p. 4612; Gaz. vol. 150; p. 761.
Vending-machines, Coin-director for. W. Asbury. No. 957,135; May 3; Sp. p. 1349; Gaz. vol. 154; p. 216.
Vending-machines, Coin-operated delivering and fraud-preventing mechanism for. A. D. Grover. No. 969,272; Sept. 6; Sp. p. 257; Gaz. vol. 158; p. 42.
Vending machines, Delivery mechanism for pencil-. A. Wagniere. No. 956,006; Apr. 26; Sp. p. 5016; Gaz. vol. 153; p. 887.
Vending-machines, Releasing device for automatic. O. Oehring. No. 977,674; Dec. 6; Sp. p. 572; Gaz. vol. 161; p. 87.
Vending slugs, Machine for. G. H. Van Court and E. I. Marks. No. 961,916; June 21; Sp. p. 3480; Gaz. vol. 155; p. 616.
Veneer-applying machine. A. S. Nichols. No. 965,927; Aug. 2; Sp. p. 164; Gaz. vol. 157; p. 28.
Veneer barrel or package machine. H. Roberts. No. 955,904; Apr. 26; Sp. p. 4809; Gaz. vol. 153; p. 851.
Veneer box for berries, &c., Collapsible. O. C. Fenlason. No. 978,868; Dec. 20; Sp. p. 3107; Gaz. vol. 161; p. 551.
Veneer drying and straightening machine. F. N. Morey. No. 947,306; Jan. 25; Sp. p. 5112; Gaz. vol. 150; p. 863.
Veneer-drying apparatus. L. G. Merritt and B. L. Gale. No. 974,903; Nov. 8; Sp. p. 1863; Gaz. vol. 160; p. 309.
Veneer-machine cutter. S. M. Bush. No. 945,690; Jan. 4; Sp. p. 1457; Gaz. vol. 150; p. 228.
Veneer-package machine. H. Roberts. No. 977,222; Nov. 29; Sp. p. 6946; Gaz. vol. 160; p. 1180.
Veneering. H. C. Hiscock. No. 974,147; Nov. 1; Sp. p. 80; Gaz. vol. 160; p. 15.
Vent for liquid-containing tanks, &c. V. V. Overturf. No. 968,394; Aug. 23; Sp. p. 5443; Gaz. vol. 157; p. 939.
Ventilating apparatus. D. Hill. No. 960,921; June 7; Sp. p. 1359; Gaz. vol. 155; p. 228.
Ventilating apparatus. W. Clifford. No. 963,277; July 5; Sp. p. 639; Gaz. vol. 156; p. 89.
Ventilating apparatus. W. Clifford. No. 963,278; July 5; Sp. p. 643; Gaz. vol. 156; p. 89.
Ventilating apparatus. S. V. Laughinghouse. No. 963,590; July 5; Sp. p. 1265; Gaz. vol. 156; p. 194.
Ventilating apparatus. M. I. Shapiro. No. 970,403; Sept. 13; Sp. p. 2668; Gaz. vol. 158; p. 451.
Ventilating apparatus. J. G. Garner. No. 975,851; Nov. 15; Sp. p. 3914; Gaz. vol. 160; p. 660.
Ventilating device for use in connection with windows. A. W. Martin. No. 955,178; Apr. 19; Sp. p. 3193; Gaz. vol. 153; p. 573.
Ventilating-register. J. W. Pheils. No. 955,991; Apr. 26; Sp. p. 4985; Gaz. vol. 153; p. 881.
Ventilating-shaft top. R. Rawling and J. T. White. No. 949,683; Feb. 15; Sp. p. 3952; Gaz. vol. 151; p. 688.
Ventilating system. A. S. Johnson. No. 948,629; Feb. 8; Sp. p. 1803; Gaz. vol. 151; p. 310.
Ventilating system. P. B. Bogart. No. 949,212; Feb. 15; Sp. p. 2995; Gaz. vol. 151; p. 531.
Ventilating system. A. S. Johnson. No. 951,761; Mar. 8; Sp. p. 2635; Gaz. vol. 152; p. 455.
Ventilating system. J. W. Jones. No. 968,854; Aug. 30; Sp. p. 6436; Gaz. vol. 157; p. 1122.
Ventilating system. A. L. Werner. No. 971,161; Sept. 27; Sp. p. 4303; Gaz. vol. 158; p. 757.
Ventilating system. J. C. Stroh. No. 976,229; Nov. 22; Sp. p. 4735; Gaz. vol. 160; p. 813.
Ventilator: *See* Automatic ventilator; Car-ventilator; Chimney or flue ventilator; Electric ventilator; Hat-ventilator; Shoe-ventilator; Stovepipe-ventilator; Subway-ventilator; Suction-ventilator; Train-ventilator; Window-ventilator.
Ventilator. N. E. Fernandez. No. 945,157; Jan. 4; Sp. p. 304; Gaz. vol. 150; p. 52.
Ventilator. G. H. Forsyth. No. 945,227; Jan. 4; Sp. p. 460; Gaz. vol. 150; p. 76
Ventilator. E. T. Scott. No. 945,615; Jan. 4; Sp. p. 1299; Gaz. vol. 150; p. 203.
Ventilator. G. Kabureck. No. 949,482; Feb. 15; Sp. p. 3570; Gaz. vol. 151; p. 622.
Ventilator. C. H. Mason. No. 949,632; Feb. 15; Sp. p. 3861; Gaz. vol. 151; p. 673.
Ventilator. E. D. Chadwick. No. 950,839; Mar. 1; Sp. p. 808; Gaz. vol. 152; p. 129.
Ventilator. L. J. Carney. No. 950,995; Mar. 1; Sp. p. 1102; Gaz. vol. 152; p. 178.
Ventilator. R. M. Hill. No. 951,609; Mar. 8; Sp. p. 2318; Gaz. vol. 152; p. 403.
Ventilator. W. H. Barr. No. 951,931; Mar. 15; Sp. p. 2998; Gaz. vol. 152; p. 543.
Ventilator. A. Brynteson. No. 952,505; Mar. 22; Sp. p. 4131; Gaz. vol. 152; p. 761.
Ventilator. W. Lintern. No. 952,747; Mar. 22; Sp. p. 4674; Gaz. vol. 152; p. 846.
Ventilator. L. L. Randle. No. 956,999; May 3; Sp. p. 1088; Gaz. vol. 154; p. 170.
Ventilator. L. Johanns. No. 957,680; May 10; Sp. p. 2509; Gaz. vol. 154; p. 434.
Ventilator. J. E. and A. A. Fisher. No. 960,873; June 7; Sp. p. 1273; Gaz. vol. 155; p. 214.
Ventilator. C. F. Henderson. No. 960,917; June 7; Sp. p. 1355; Gaz. vol. 155; p. 227.
Ventilator. J. Keith and C. Tuson. No. 962,357; June 21; Sp. p. 4446; Gaz. vol. 155; p. 766.
Ventilator. J. G. Clark. No. 964,146; July 12; Sp. p. 2459; Gaz. vol. 156; p. 403.
Ventilator. W. F. Warden. (Reissue.) No. 13,137; July 26; Sp. p. 6161; Gaz. vol. 156; p. 1045.
Ventilator. L. S. Levi. No. 965,916; Aug. 2; Sp. p. 144; Gaz. vol. 157; p. 25.
Ventilator. G. C. Walker. No. 966,497; Aug. 9; Sp. p. 1399; Gaz. vol. 157; p. 245.
Ventilator. D. H. Mowen. No. 967,028; Aug. 9; Sp. p. 2585; Gaz. vol. 157; p. 424.
Ventilator. H. P. Vose. No. 967,589; Aug. 16; Sp. p. 3742; Gaz. vol. 157; p. 643.
Ventilator. C. McVeety. No. 969,554; Sept. 6; Sp. p. 870; Gaz. vol. 158; p. 137.
Ventilator. R. W. Carrington. No. 969,842; Sept. 13; Sp. p. 1521; Gaz. vol. 158; p. 261.
Ventilator. R. W. Martin. No. 972,005; Oct. 4; Sp. p. 1092; Gaz. vol. 159; p. 183.
Ventilator. H. J. Roth. No. 974,829; Nov. 8; Sp. p. 1690; Gaz. vol. 160; p. 284.
Ventilator. W. A. Scott, Jr. (Reissue.) No. 13,179; Dec. 6; Sp. p. 1528; Gaz. vol. 161; p. 246.
Ventilator. W. J. Lindemeyer. No. 978,175; Dec. 13; Sp. p. 1653; Gaz. vol. 161; p. 291.
Ventilator. H. A. Dirkes. No. 979,134; Dec. 20; Sp. p. 3744; Gaz. vol. 161; p. 648.
Ventilator. E. W. Woods. No. 979,728; Dec. 27; Sp. p. 4997; Gaz. vol. 161; p. 872.
Ventilator and deflector, Combined. T. T. Peddy. No. 973,966; Oct. 25; Sp. p. 5341; Gaz. vol. 159; p. 929.
Ventilator and exhaust. A. F. Schwannecke. No. 973,309; Oct. 18; Sp. p. 3960; Gaz. vol. 159; p. 677.
Ventilator and fly-escape, Combined. T. E. Dilley No. 974,863; Nov. 8; Sp. p. 1772; Gaz. vol. 160; p. 295.
Vernier, Fixed. M. G. Nuñez. No. 977,537; Dec. 6; Sp. p. 281; Gaz. vol. 161; p. 41.
Vertical boiler. T. Suzuki. No. 973,720; Oct. 25; Sp. p. 4848; Gaz. vol. 159; p. 843.
Vessel. H. F. Alexander. No. 953,165; Mar. 29; Sp. p. 5562; Gaz. vol. 152; p. 1014.
Vessel brake, Steam-. A. McGilchrist. No. 953,152; Mar. 29; Sp. p. 5540 Gaz. vol. 152; p. 1010.
Vessel-capping machine. J. A. Hicks. No. 948,139; Feb. 1; Sp. p. 744; Gaz. vol. 151; p. 121.
Vessel-closing device. K. A. Lingner. No. 963,909; July 12; Sp. p. 1968; Gaz. vol. 156; p. 323.
Vessel-closure. J. C. Schleicher. No. 948,347; Feb. 8; Sp. p. 1182; Gaz. vol. 151; p. 217.
Vessel-closure. J. C. Schleicher. No. 968,696; Aug. 30; Sp. p. 6130; Gaz. vol. 157; p. 1070.
Vessel, Collapsible and expansible. W. M. Fulton. No. 975,519; Nov. 15; Sp. p. 3215; Gaz. vol. 160; p. 548.
Vessel, Double-walled. G. R. Paalen. No. 950,557; Mar. 1; Sp. p. 205; Gaz. vol. 152; p. 33.

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Vessel-fender. M. Morâñszky. No. 979,539; Dec. 27; Sp. p. 4574; Gaz. vol. 161; p. 806.
Vessel-filling machines, Locking mechanism for. J. M. Hicks. No. 949,476; Feb. 15; Sp. p. 3562; Gaz. vol. 151; p. 621.
Vessel for carrying bulk cargo. P. B. Clarke. No. 975,750; Nov. 15; Sp. p. 3710; Gaz. vol. 160; p. 626.
Vessel-loading alarm. J. Gedeon. No. 973,772; Oct. 25; Sp. p. 4947; Gaz. vol. 159; p. 861.
Vessel, Marine. C. L. Burger. No. 954,713; Apr. 12; Sp. p. 2187; Gaz. vol. 153; p. 382.
Vessel, Marine. B. Settergren. No. 955,703; Apr. 19; Sp. p. 4355; Gaz. vol. 153; p. 752.
Vessel, Submarine. S. Lake. No. 947,921; Feb. 1; Sp. p. 294; Gaz. vol. 151; p. 49.
Vessel, Submarine. A. J. Griffin. No. 958,742; May 24; Sp. p. 5051; Gaz. vol. 154; p. 853.
Vessel-top fastener. H. C. J. Scharmann. No. 968,606; Aug. 30; Sp. p. 5897; Gaz. vol. 157; p. 1039.
Vessel, Water. J. H. Pence. No. 965,651; July 26; Sp. p. 5747; Gaz. vol. 156; p. 977.
Vessels, Apparatus for locating sunken. G. B. Lea Quee. No. 957,222; May 10; Sp. p. 1570; Gaz. vol. 154; p. 277.
Vessels, Apparatus for raising sunken. B. P. Clark. No. 955,763; Apr. 19; Sp. p. 4473; Gaz. vol. 153; p. 772.
Vessels, Apparatus for raising sunken. N. Nelson. No. 963,168; July 5; Sp. p. 355; Gaz. vol. 156; p. 51.
Vessels at sea, Apparatus for coaling. P. McDowall. No. 977,464; Dec. 6; Sp. p. 75; Gaz. vol. 161; p. 15.
Vessels, Corrugated-metal wall for collapsible expansible. W. M. Fulton. No. 947,229; Jan. 25; Sp. p. 4906; Gaz. vol. 150; p. 836.
Vessels, Depth-regulating mechanism for moving. G. C. Davison. No. 946,659; Jan. 18; Sp. p. 3685; Gaz. vol. 150; p. 616.
Vessels, Device for determining the metacentric height of. E. Tate and J. M. Goodall. No. 958,192; May 17; Sp. p. 3797; Gaz. vol. 154; p. 642.
Vessels, Device for locating sunken. C. Vroman and F. L. Hamilton. No. 946,174; Jan. 11; Sp. p. 2571; Gaz. vol. 150; p. 427.
Vessels, Device for raising submarine. M. A. Laubeuf. No. 955,414; Apr. 19; Sp. p. 3714; Gaz. vol. 153; p. 653.
Vessels, Discharging apparatus for navigable. C. D. Doxford. No. 974,104; Oct. 25; Sp. p. 5626; Gaz. vol. 159; p. 975.
Vessels, Fastener for. J. R. Fischer and J. Ditzler. No. 945,450; Jan. 4; Sp. p. 950; Gaz. vol. 150; p. 149.
Vessels, Flexible corrugated-metal wall for collapsible and expansible. W. M. Fulton. No. 976,060; Nov. 15; Sp. p. 4308; Gaz. vol. 160; p. 731.
Vessels, Flexible corrugated-metal wall for collapsible and expansible. W. M. Fulton. No. 979,460; Dec. 27; Sp. p. 4407; Gaz. vol. 161; p. 780.
Vessels, Self-closing joint for. L. Granges. No. 971,989; Oct. 4; Sp. p. 1064; Gaz. vol. 159; p. 178.
Vest and suspenders, Combined. H. Hoppenstein. No. 970,824; Sept. 20; Sp. p. 3633; Gaz. vol. 158; p. 620.
Vest, Chest-protecting. E. Scott. No. 965,487; July 26; Sp. p. 5365; Gaz. vol. 156; p. 918.
Vest-corner stiffener. C. D. Clements. No. 958,093; May 17; Sp. p. 3595; Gaz. vol. 154; p. 606.
Vests, Attachment for holding down. R. C. Fritsche. No. 960,303; June 7; Sp. p. 125; Gaz. vol. 155; p. 25.
Vestibule-diaphragms, Means for attaching. J. H. Donaldson. No. 975,219; Nov. 8; Sp. p. 2593; Gaz. vol. 160; p. 418.
Veterinary impregnating instrument. C. W. Baird. No. 945,739; Jan. 11; Sp. p. 1616; Gaz. vol. 150; p. 274.
Veterinary obstetrical instrument. C. Gabel. No. 960,885; June 7; Sp. p. 1301; Gaz. vol. 155; p. 218.
Vibrating screen or separator. T. L. and T. J. Sturtevant. No. 961,467; June 14; Sp. p. 2526; Gaz. vol. 155; p. 443.
Vibration and sound, Plate for deadening. W. Genest and H. Stössel. No. 971,369; Sept. 27; Sp. p. 4722; Gaz. vol. 158; p. 825.
Vibration-arrester. W. F. Nichols. No. 949,962; Feb. 22; Sp. p. 4595; Gaz. vol. 151; p. 820.
Vibration-indicator. B. Volkmar. No. 962,679; June 28; Sp. p. 5152; Gaz. vol. 155; p. 901.
Vibrator. A. J. Stecker. No. 945,872; Jan. 11; Sp. p. 1934; Gaz. vol. 150; p. 322.
Vibrator. C. A. Pfanstiehl. No. 964,312; July 12; Sp. p. 2786; Gaz. vol. 156; p. 460.
Vibrator, Electric. S. W. Moon. No. 957,982; May 17; Sp. p. 3217; Gaz. vol. 154; p. 566.
Vibrator for induction-coils. B. L. Lawton. No. 958,509; May 17; Sp. p. 4578; Gaz. vol. 154; p. 751.
Vibratory apparatus for ear treatment. E. Meyer. No. 976,200; Nov. 22; Sp. p. 4654; Gaz. vol. 160; p. 802.
Vibratory apparatus, Valve-operated mechanism for handles of. C. M. Siebert, Jr. No. 961,379; June 14; Sp. p. 2342; Gaz. vol. 155; p. 414.
View-exhibiting apparatus. R. R. Whiting. No. 963,841; July 12; Sp. p. 1829; Gaz. vol. 156; p. 301.
Vine-separator. C. Barnum. No. 956,027; Apr. 26; Sp. p. 5052; Gaz. vol. 153; p. 894.
Vines and other climbing plants, Appliance for training pea-. L. Petzier. No. 950,639; Mar. 1; Sp. p. 379; Gaz. vol. 152; p. 61.

Violin. J. E. L. Winecoff. No. 954,487; Apr. 12; Sp. p. 1683; Gaz. vol. 153; p. 305.
Violin. J. A. Martin. No. 958,146; May 17; Sp. p. 3703; Gaz. vol. 154; p. 625.
Violin-bow. F. Della Torre. No. 958,784; May 24; Sp. p. 5151; Gaz. vol. 154; p. 868.
Violin-bow. W. G. Bryant. No. 965,072; July 19; Sp. p. 4496; Gaz. vol. 156; p. 748.
Violin-case. J. Günther. No. 973,500; Oct. 25; Sp. p. 4386; Gaz. vol. 159; p. 767.
Violin-supporter. H. A. Smith. No. 950,873; Mar. 1; Sp. p. 868; Gaz. vol. 152; p. 139.
Violins and similar stringed musical instruments, Keyed finger-board for. A. T. John. No. 957,681; May 10; Sp. p. 2510; Gaz. vol. 154; p. 434.
Violins, Bow for self-playing. E. A. P. Hennig. No. 978,373; Dec. 13; Sp. p. 2065; Gaz. vol. 161; p. 361.
Violins, violas, and the like, Tailpiece for. J. Bendel. No. 973,846; Oct. 25; Sp. p. 5105; Gaz. vol. 159; p. 886.
Vise. J. J. Dix and L. W. Van Cleave. No. 947,888; Feb. 1; Sp. p. 238; Gaz. vol. 151; p. 39.
Vise. D. Kovacs. No. 947,919; Feb. 1; Sp. p. 289; Gaz. vol. 151; p. 48.
Vise. A. W. Richards. No. 954,699; Apr. 12; Sp. p. 2147; Gaz. vol. 153; p. 376.
Vise. E. C. Stearns. No. 957,520; May 10; Sp. p. 2190; Gaz. vol. 154; p. 378.
Vise. R. J. Schlosser. No. 962,983; June 28; Sp. p. 5749; Gaz. vol. 155; p. 1006.
Vise. H. S. Kuhn. No. 965,470; July 26; Sp. p. 5337; Gaz. vol. 156; p. 913.
Vise. L. R. Blackmore. No. 968,444; Aug. 23; Sp. p. 5539; Gaz. vol. 157; p. 956.
Vise. D. Parks. No. 973,381; Oct. 18; Sp. p. 4124; Gaz. vol. 159; p. 703.
Vise, Adjustable. G. A. Gefvert. No. 955,259; Apr. 19; Sp. p. 3379; Gaz. vol. 153; p. 602.
Vise, Adjustable door-. W. T. Kennedy and G. C. Pettit. No. 973,942; Oct. 25; Sp. p. 5299; Gaz. vol. 159; p. 920.
Vise and forming apparatus, Combined. F. E. Sutherland and J. A. Brown. No. 951,975; Mar. 15; Sp. p. 3081; Gaz. vol. 152; p. 556.
Vise and support. T. R. Higham and J. Shakespeare. No. 954,961; Apr. 12; Sp. p. 2773; Gaz. vol. 153; p. 469.
Vise attachment. L. W. Palmer. No. 975,991; Nov. 15; Sp. p. 4178; Gaz. vol. 160; p. 708.
Vise, Bench-. O. M. Eager. No. 947,573; Jan. 25; Sp. p. 5739; Gaz. vol. 150; p. 953.
Vise, Bench-. J. E. Priest. No. 951,201; Mar. 8; Sp. p. 1489; Gaz. vol. 152; p. 269.
Vise, Bench-. J. R. Long. No. 958,658; May 17; Sp. p. 4866; Gaz. vol. 154; p. 799.
Vise, Bench-. J. R. Long. No. 958,659; May 17; Sp. p. 4867; Gaz. vol. 154; p. 799.
Vise, Bench-. E. E. Thayer. No. 969,003; Aug. 30; Sp. p. 6733; Gaz. vol. 157; p. 1173.
Vise, Bench-. A. W. Peterson. No. 969,401; Sept. 6; Sp. p. 535; Gaz. vol. 158; p. 85.
Vise, Combination-. J. Crawford. No. 952,787; Mar. 22; Sp. p. 4767; Gaz. vol. 152; p. 859.
Vise, Door-fitting. C. E. Rose. No. 959,264; May 24; Sp. p. 6165; Gaz. vol. 154; p. 1031.
Vise, Fluid-pressure-actuated. J. E. Osmer. No. 976,285; Nov. 22; Sp. p. 4876; Gaz. vol. 160; p. 833.
Vise for carpenters' benches, Detachable H. E. Shawver. No. 979,039; Dec. 20; Sp. p. 3502; Gaz. vol. 161; p. 613.
Vise for drill-presses. A. Johnson. No. 977,878; Dec. 6; Sp. p. 996; Gaz. vol. 161; p. 157.
Vise for saws. J. Mignola, Jr. No. 952,013; Mar. 15; Sp. p. 3161; Gaz. vol. 152; p. 569.
Vise, Hydraulic. C. F. Schwanengel. No. 978,067; Dec. 6; Sp. p. 1385; Gaz. vol. 161; p. 223.
Vise, Miter-clamp. H. B. Depworth. No. 960,159; May 31; Sp. p. 8077; Gaz. vol. 154; p. 1358.
Vise, Plumber's. F. Carle. No. 956,039; Apr. 26; Sp. p. 5085; Gaz. vol. 153; p. 898.
Vise, Saw-. W. T. Swain. No. 954,148; Apr. 5; Sp. p. 950; Gaz. vol. 153; p. 163.
Vise, Strap pipe-. W. I. Trethewey. No. 975,001; Nov. 8; Sp. p. 2113; Gaz. vol. 160; p. 344.
Vise, Swivel-base. E. M. Walker. No. 976,521; Nov. 22; Sp. p. 5381; Gaz. vol. 160; p. 913.
Vitreous matter, Composition of. C. A. Kraus. No. 974,801; Nov. 8; Sp. p. 1635; Gaz. vol. 160; p. 274.
Voltage-regulator. W. I. Thomson. No. 960,734; June 7; Sp. p. 1003; Gaz. vol. 155; p. 168.
Voltage-regulator. C. S. Johnson. No. 961,411; June 14; Sp. p. 2395; Gaz. vol. 155; p. 424.
Voltage-regulator. R. Fleming. No. 971,184; Sept. 27; Sp. p. 4363; Gaz. vol. 158; p. 765.
Voltage-regulator. C. P. Steinmetz. No. 973,579; Oct. 25; Sp. p. 4547; Gaz. vol. 159; p. 793.
Voltage regulator, Electric-. F. R. M. Cutcheon. No. 947,055; Jan. 18; Sp. p. 4550; Gaz. vol. 150; p. 750.
Volume regulator and indicator. F. L. Cross. No. 958,726; May 24; Sp. p. 5008; Gaz. vol. 154; p. 848.
Vote-registering machine. D. L. Newcomb. No. 947,840; Feb. 1; Sp. p. 111; Gaz. vol. 151; p. 22.
Voting apparatus. W. A. Sanford. No. 977,905; Dec. 6; Sp. p. 1053; Gaz. vol. 161; p. 167.

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Voting, Device for independent. C. H. Ocumpaugh. No. 977,396; Nov. 29; Sp. p. 7330; Gaz. vol. 160; p. 1240.
Voting-machine. A. McKenzie. No. 945,405; Jan. 4; Sp. p. 866; Gaz. vol. 150; p. 135.
Voting-machine. D. L. Newcomb. No. 947,839; Feb. 1; Sp. p. 103; Gaz. vol. 151; p. 22.
Voting-machine. J. McTammany. No. 952,464; Mar. 22; Sp. p. 4038; Gaz. vol. 152; p. 747.
Voting-machine. W. Glenn. No. 957,326; May 10; Sp. p. 1795; Gaz. vol. 154; p. 314.
Voting-machine. G. Johnson. No. 960,020; May 31; Sp. p. 7809; Gaz. vol. 154; p. 1313.
Voting-machine. J. McTammany. No. 960,034; May 31; Sp. p. 7851; Gaz. vol. 154; p. 1318.
Voting-machine. W. I. Kirk. No. 960,956; June 7; Sp. p. 1430; Gaz. vol. 155; p. 241.
Voting-machine. L. R. Winslow. No. 963,105; July 5; Sp. p. 192; Gaz. vol. 156; p. 28.
Voting-machine. C. L. Lorraine. No. 964,986; July 19; Sp. p. 4311; Gaz. vol. 156; p. 720.
Voting-machine. L. R. Winslow. No. 966,148; Aug. 2; Sp. p. 629; Gaz. vol. 157; p. 103.
Voting-machine. L. R. Winslow. No. 966,505; Aug. 9; Sp. p. 1417; Gaz. vol. 157; p. 248.
Voting-machine. J. H. Dean. No. 971,666; Oct. 4; Sp. p. 320; Gaz. vol. 159; p. 58.
Voting-machine. J. H. McElroy. No. 972,213; Oct. 11; Sp. p. 1524; Gaz. vol. 159; p. 271.
Voting-machine. J. H. McElroy. No. 972,214; Oct. 11; Sp. p. 1537; Gaz. vol. 159; p. 272.
Voting-machine. J. H. McElroy. No. 972,215; Oct. 11; Sp. p. 1547; Gaz. vol. 159; p. 273.
Voting-machine. J. H. Dean. No. 972,513; Oct. 11; Sp. p. 2169; Gaz. vol. 159; p. 376.
Voting-machine. J. H. Myers. No. 972,565; Oct. 11; Sp. p. 2292; Gaz. vol. 159; p. 395.
Voting-machine. C. H. Ocumpaugh. No. 973,550; Oct. 25; Sp. p. 4480; Gaz. vol. 159; p. 783.
Voting-machine auxiliary interlock. L. R. Winslow. No. 963,104; July 5; Sp. p. 182; Gaz. vol. 156; p. 27.
Voting-machine controlling mechanism. A. J. Gillespie and W. J. Lausterer. No. 972,527; Oct. 11; Sp. p. 2208; Gaz. vol. 159; p. 381.
Voting-machine counter-support. C. Christensen. No. 972,506; Oct. 11; Sp. p. 2149; Gaz. vol. 159; p. 373.
Voting-machine indorsing device. W. J. Lausterer. No. 950,156; Feb. 22; Sp. p. 5043; Gaz. vol. 151; p. 887.
Voting-machine interlocking mechanism. C. H. Ocumpaugh. No. 970,260; Sept. 13; Sp. p. 2401; Gaz. vol. 158; p. 405.
Voting-machine key-positioning device. C. F. Currey. No. 946,693; Jan. 18; Sp. p. 3756; Gaz. vol. 150; p. 628.
Voting-machine lock-out. C. F. Lomb and W. J. Lausterer. No. 950,157; Feb. 22; Sp. p. 5047; Gaz. vol. 151; p. 887.
Voting-machine locking mechanism. C. C. Abbott. No. 954,771; Apr. 12; Sp. p. 2334; Gaz. vol. 153; p. 403.
Voting-machine support. A. J. Gillespie. No. 945,230; Jan. 4; Sp. p. 466; Gaz. vol. 150; p. 77.
Voting-machine, Vote-printing. D. L. Newcomb. No. 968,070; Aug. 23; Sp. p. 4750; Gaz. vol. 157; p. 827.
Voting-machines, Actuator cut-off for. C. Christensen. No. 972,507; Oct. 11; Sp. p. 2152; Gaz. vol. 159; p. 373.
Voting-machines, Card-holder for. E. Mattoon. No. 946,062; Jan. 11; Sp. p. 2326; Gaz. vol. 150; p. 387.
Voting-machines, Cumulative-voting interlock for. W. J. Lausterer. No. 945,175; Jan. 4; Sp. p. 343; Gaz. vol. 150; p. 58.
Voting-machines, Irregular mechanism of. A. J. Gillespie. No. 945,714; Jan. 4; Sp. p. 1507; Gaz. vol. 150; p. 236.
Voting mechanism. M. A. Dees. No. 948,757; Feb. 8; Sp. p. 2080; Gaz. vol. 151; p. 354.
Voting mechanism, General-. L. R. Winslow. No. 966,633; Aug. 9; Sp. p. 1707; Gaz. vol. 157; p. 292.
Voting mechanism, Independent-ballot-. L. R. Winslow. No. 965,352; July 26; Sp. p. 5087; Gaz. vol. 156; p. 873.
Voting mechanism, Question-. C. H. Ocumpaugh. No. 947,497; Jan. 25; Sp. p. 5581; Gaz. vol. 150; p. 927.
Vulcanizer. C. A. Shaler. No. 955,479; Apr. 19; Sp. p. 3843; Gaz. vol. 153; p. 676.
Vulcanizer. C. A. Shaler. No. 977,972; Dec. 6; Sp. p. 1196; Gaz. vol. 161; p. 191.
Vulcanizer, Portable. G. W. Clough. No. 973,476; Oct. 25; Sp. p. 4327; Gaz. vol. 159; p. 758.
Vulcanizer removable cover. A. Adamson. No. 955,739; Apr. 19; Sp. p. 4431; Gaz. vol. 153; p. 764.
Vulcanizers, Quick-opening door for. J. K. Williams. No. 976,969; Nov. 29; Sp. p. 6400; Gaz. vol. 160; p. 1093.
Vulcanizing apparatus. W. Frost. No. 951,881; Mar. 15; Sp. p. 2900; Gaz. vol. 152; p. 525.
Vulcanizing apparatus, Portable. M. Bouchet. No. 965,620; July 26; Sp. p. 5687; Gaz. vol. 156; p. 967.
Vulcanizing-press. A. H. Harris. No. 949,428; Feb. 15; Sp. p. 3472; Gaz. vol. 151; p. 606.
Wafer-machine. D. Fablan. No. 949,371; Feb. 15; Sp. p. 3346; Gaz. vol. 151; p. 586.
Wafer-machine. J. M. Ribé. No. 973,304; Oct. 18; Sp. p. 3952; Gaz. vol. 159; p. 676.
Wafers, sugar-wafer biscuits, and the like, Machinery for making cup-. T. O. Bates. No. 949,817; Feb. 22; Sp. p. 4265; Gaz. vol. 151; p. 769.
Waffle-iron. R. O. Bingham. No. 950,090; Feb. 22; Sp. p. 4916; Gaz. vol. 151; p. 865.
Wagon. H. Peterson. No. 952,943; Mar. 22; Sp. p. 5077; Gaz. vol. 152; p. 912.
Wagon. M. Kraeski. No. 967,937; Aug. 23; Sp. p. 4442; Gaz. vol. 157; p. 782.
Wagon. A. D. Ellsworth. No. 970,436; Sept. 13; Sp. p. 2739; Gaz. vol. 158; p. 462.
Wagon. H. Greene. No. 974,877; Nov. 8; Sp. p. 1809; Gaz. vol. 160; p. 300.
Wagon, Advertising-. O. Weniger. No. 945,652; Jan. 4; Sp. p. 1385; Gaz. vol. 150; p. 216.
Wagon and auto brake. W. G. Aldridge. No. 955,034; Apr. 12; Sp. p. 2916; Gaz. vol. 153; p. 494.
Wagon and car, Combination. D. F. Reinheimer. No. 968,419; Aug. 23; Sp. p. 5492; Gaz. vol. 157; p. 947.
Wagon and sled, Combined low-wheeled. H. S. Somsen. No. 962,266; June 21; Sp. p. 4254; Gaz. vol. 155; p. 736.
Wagon attachment. A. C. Davis. No. 952,000; Mar. 15; Sp. p. 3133; Gaz. vol. 152; p. 565.
Wagon, Automobile. M. V. B. Ethridge. No. 956,060; Apr. 26; Sp. p. 5137; Gaz. vol. 153; p. 906.
Wagon, Automobile. M. V. B. Ethridge. No. 956,061; Apr. 26; Sp. p. 5138; Gaz. vol. 153; p. 906.
Wagon-bed and hay-rack. J. L. McIntire. No. 952,751; Mar. 22; Sp. p. 4684; Gaz. vol. 152; p. 847.
Wagon-bed hoist. A. Moyer. No. 960,670; June 7; Sp. p. 883; Gaz. vol. 155; p. 146.
Wagon-body. J. W. A. Bird. No. 953,509; Mar. 29; Sp. p. 6311; Gaz. vol. 152; p. 1131.
Wagon-body. F. F. Groff. No. 959,855; May 31; Sp. p. 7406; Gaz. vol. 154; p. 1255.
Wagon-body-dumping mechanism. E. P. Le Gore. No. 973,055; Oct. 18; Sp. p. 3409; Gaz. vol. 159; p. 590.
Wagon-bolster. W. B. Milligan. No. 949,590; Feb. 15; Sp. p. 3785; Gaz. vol. 151; p. 658.
Wagon-bolster, Spring. J. L. and A. Hagel. No. 947,815; Feb. 1; Sp. p. 63; Gaz. vol. 151; p. 14.
Wagon-bolster washer. J. Y. Martin. No. 952,748; Mar. 22; Sp. p. 4675; Gaz. vol. 152; p. 846.
Wagon-box. O. O. Newberry. No. 951,256; Mar. 8; Sp. p. 1601; Gaz. vol. 152; p. 286.
Wagon-box, Adjustable. A. E. Sutherland. No. 979,722; Dec. 27; Sp. p. 4965; Gaz. vol. 161; p. 870.
Wagon-box brace. J. H. Butt. No. 974,469; Nov. 1; Sp. p. 907; Gaz. vol. 160; p. 134.
Wagon-box fastener. F. Abrams. No. 951,929; Mar. 15; Sp. p. 2996; Gaz. vol. 152; p. 543.
Wagon-box fastener. H. E. Macy. No. 962,231; June 21; Sp. p. 4171; Gaz. vol. 155; p. 724.
Wagon-box for hoisting and dumping grain, beets, &c. J. C. Proctor. No. 978,336; Dec. 13; Sp. p. 1995; Gaz. vol. 161; p. 347.
Wagon-box protector. N. P. B. Eskildsen. No. 971,028; Sept. 27; Sp. p. 4017; Gaz. vol. 158; p. 713.
Wagon-boxes, Metal cleat for. O. O. Newberry. No. 946,981; Jan. 18; Sp. p. 4416; Gaz. vol. 150; p. 726.
Wagon bracket, Farm-. J. Kaminski. No. 972,082; Oct. 4; Sp. p. 1234; Gaz. vol. 159; p. 209.
Wagon-brake. P. Dickens. No. 948,090; Feb. 1; Sp. p. 651; Gaz. vol. 151; p. 105.
Wagon-brake. C. W. Page. No. 948,246; Feb. 1; Sp. p. 950; Gaz. vol. 151; p. 156.
Wagon-brake. R. E. Turner. No. 954,229; Apr. 5; Sp. p. 1144; Gaz. vol. 153; p. 190.
Wagon-brake. W. E. Woods. No. 954,238; Apr. 5; Sp. p. 1159; Gaz. vol. 153; p. 193.
Wagon-brake. H. C. Murdock. No. 956,134; Apr. 26; Sp. p. 5302; Gaz. vol. 153; p. 932.
Wagon-brake. D. Meek. No. 961,248; June 14; Sp. p. 2041; Gaz. vol. 155; p. 368.
Wagon-brake. C. D. Linton. No. 962,442; June 28; Sp. p. 4649; Gaz. vol. 155; p. 820.
Wagon-brake. H. M. Mahan. No. 962,775; June 28; Sp. p. 5358; Gaz. vol. 155; p. 936.
Wagon-brake. O. Hill. No. 963,558; July 5; Sp. p. 1190; Gaz. vol. 156; p. 184.
Wagon-brake. H. E. Rolph. No. 963,943; July 12; Sp. p. 2024; Gaz. vol. 156; p. 333.
Wagon-brake. J. L. Tomer. No. 977,346; Nov. 29; Sp. p. 7191; Gaz. vol. 160; p. 1223.
Wagon-brake. E. G. Doland. No. 980,076; Dec. 27; Sp. p. 5744; Gaz. vol. 161; p. 988.
Wagon-brake, Automatic. E. F. Rickerson. No. 965,747; July 26; Sp. p. 5930; Gaz. vol. 156; p. 1009.
Wagon-brake, Automatic. G. W. Brewer. No. 972,808; Oct. 18; Sp. p. 2809; Gaz. vol. 159; p. 502.
Wagon, Dump-. W. Atkins. No. 946,791; Jan. 18; Sp. p. 3977; Gaz. vol. 150; p. 661.
Wagon, Dump-. W. A. Underhill. No. 948,358; Feb. 8; Sp. p. 1203; Gaz. vol. 151; p. 220.
Wagon, Dump-. C. M. Haeske. No. 953,783; Apr. 5; Sp. p. 198; Gaz. vol. 153; p. 37.
Wagon, Dump-. W. S. Coates. No. 960,241; May 31; Sp. p. 8248; Gaz. vol. 154; p. 1388.
Wagon, Dump-. A. C. Baker. No. 967,154; Aug. 16; Sp. p. 2853; Gaz. vol. 157; p. 494.

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Wagon, Dump-. A. Woeber. No. 969,082; Aug. 30; Sp. p. 6894; Gaz. vol. 157; p. 1200.
Wagon, Dump-. J. Stifter. No. 972,941; Oct. 18; Sp. p. 3168; Gaz. vol. 159; p. 552.
Wagon-dump and grain-elevator, Portable. H. S. Swanson. No. 966,062; Aug. 2; Sp. p. 477; Gaz. vol. 157; p. 76.
Wagon-dump lifting-jack. B. M. Steele. No. 954,145; Apr. 5; Sp. p. 932; Gaz. vol. 153; p. 161.
Wagon, Dumping-. E. E. Geeseman. No. 948,092; Feb. 1; Sp. p. 658; Gaz. vol. 151; p. 106.
Wagon, Dumping-. E. G. Hartle. No. 956,088; Apr. 26; Sp. p. 5205; Gaz. vol. 153; p. 915.
Wagon, Dumping-. W. L. Collins. No. 968,511; Aug. 23; Sp. p. 5689; Gaz. vol. 157; p. 979.
Wagon, Dumping-. H. D. Ells. No. 969,258; Sept. 6; Sp. p. 232; Gaz. vol. 158; p. 38.
Wagon, Dumping-. H. D. Ells. No. 969,259; Sept. 6; Sp. p. 233; Gaz. vol. 158; p. 38.
Wagon, Dumping-. F. N. Cronholm. No. 970,893; Sept. 20; Sp. p. 3758; Gaz. vol. 158; p. 641.
Wagon, Dumping-. E. R. Jones and W. A. Yockey. No. 973,277; Oct. 18; Sp. p. 3896; Gaz. vol. 159; p. 667.
Wagon, Dumping-. J. Heberling. No. 979,488; Dec. 27; Sp. p. 4465; Gaz. vol. 161; p. 789.
Wagon-dumping apparatus. G. E. Wunder. No. 947,318; Jan. 25; Sp. p. 5141; Gaz. vol. 150; p. 868.
Wagon, Dumping coal-. T. E. Bond. No. 963,503; July 5; Sp. p. 1081; Gaz. vol. 156; p. 164.
Wagon front gear. G. Kautz, Sr. No. 971,507; Sept. 27; Sp. p. 4968; Gaz. vol. 158; p. 870.
Wagon hoist or lift. R. G. Roulstone. No. 963,397; July 5; Sp. p. 875; Gaz. vol. 156; p. 129.
Wagon-hood, Collapsible. C. C. Cooper. No. 951,089; Mar. 1; Sp. p. 1267; Gaz. vol. 152; p. 208.
Wagon-jack. A. A. Coon. No. 951,057; Mar. 1; Sp. p. 1200; Gaz. vol. 152; p. 197.
Wagon-jack. F. J. Feldt. No. 956,631; May 3; Sp. p. 263; Gaz. vol. 154; p. 44.
Wagon-jack. M. G. Colby. No. 957,308; May 10; Sp. p. 1754; Gaz. vol. 154; p. 307.
Wagon-jack. S. L. Porn. No. 959,255; May 24; Sp. p. 6151; Gaz. vol. 154; p. 1028.
Wagon-jack. W. V. Gist. No. 964,235; July 12; Sp. p. 2631; Gaz. vol. 156; p. 433.
Wagon-jack. C. J. Lind. No. 974,084; Oct. 25; Sp. p. 5589; Gaz. vol. 159; p. 968.
Wagon jack or elevator. A. T. Adams. No. 956,507; May 3; Sp. p. 1; Gaz. vol. 154; p. 3.
Wagon-loader. A. McKinney. No. 980,115; Dec. 27; Sp. p. 5852; Gaz. vol. 161; p. 1001.
Wagon loader and grader. F. and W. E. Hill. No. 950,328; Feb. 22; Sp. p. 5396; Gaz. vol. 151; p. 947.
Wagon-loading device. W. W. Lucas. No. 976,666; Nov. 22; Sp. p. 5697; Gaz. vol. 160; p. 964.
Wagon, Postman's delivery-. G. F. Schulze. No. 973,390; Oct. 18; Sp. p. 4141; Gaz. vol. 159; p. 706.
Wagon-rack. C. Linguist. No. 951,284; Mar. 8; Sp. p. 1664; Gaz. vol. 152; p. 295.
Wagon-rack, Adjustable. J. W. Brown. No. 960,069; May 31; Sp. p. 7920; Gaz. vol. 154; p. 1330.
Wagon-rack, Adjustable. A. E. Sutherland. No. 976,614; Nov. 22; Sp. p. 5593; Gaz. vol. 160; p. 946.
Wagon-rack, Detachable. J. Weber. No. 957,586; May 10; Sp. p. 2305; Gaz. vol. 154; p. 400.
Wagon-reach. D. Cosner. No. 965,990; Aug. 2; Sp. p. 309; Gaz. vol. 157; p. 51.
Wagon-reach adjuster. W. P. Dunlap. No. 959,483; May 31; Sp. p. 6619; Gaz. vol. 154; p. 1129.
Wagon running-gear. E. Buswell and T. Cascaden, Jr. No. 956,795; May 3; Sp. p. 634; Gaz. vol. 154; p. 101.
Wagon running-gear, Dumping-. L. H. Young. No. 972,670; Oct. 11; Sp. p. 2526; Gaz. vol. 159; p. 430.
Wagon-seat fastener. P. W. Woods. No. 950,361; Feb. 22; Sp. p. 5454; Gaz. vol. 151; p. 956.
Wagon-seat fastener. L. M. Lattimore. No. 959,361; May 24; Sp. p. 6357; Gaz. vol. 154; p. 1063.
Wagon-seat lock. V. W. Heydlauff. No. 948,505; Feb. 8; Sp. p. 1531; Gaz. vol. 151; p. 270.
Wagon-seat-securing device. C. W. Rasmus. No. 947,028; Jan. 18; Sp. p. 4513; Gaz. vol. 150; p. 743.
Wagon, Self-loading. G. M. Forbess. No. 946,028; Jan. 11; Sp. p. 2257; Gaz. vol. 150; p. 375.
Wagon-standard. A. D. Stierheim. No. 969,218; Sept. 6; Sp. p. 160; Gaz. vol. 158; p. 26.
Wagon, Tank-. W. and A. M. Graver. No. 960,165; May 31; Sp. p. 8088; Gaz. vol. 154; p. 1360.
Wagon-top. F. Geiger. No. 979,839; Dec. 27; Sp. p. 5258; Gaz. vol. 161; p. 910.
Wagon, Vending-. D. Boyle. No. 960,802; June 7; Sp. p. 1138; Gaz. vol. 155; p. 190.
Wagons, Dog for log-. H. Golden. No. 951,213; Mar. 8; Sp. p. 1508; Gaz. vol. 152; p. 272.
Wagons, Hinge connection for folding basket-racks for. E. Shipman. No. 967,070; Aug. 9; Sp. p. 2670; Gaz. vol. 157; p. 438.
Wagons, Safety line-hitch for. M. Johnston. No. 956,581; May 3; Sp. p. 160; Gaz. vol. 154; p. 28.
Waiting-stand for dining-tables. B. F. MacMinn. No. 945,848; Jan. 11; Sp. p. 1884; Gaz. vol. 150; p. 313.
Walking, Apparatus for facilitating. W. W. Anderson. No. 979,243; Dec. 20; Sp. p. 3980; Gaz. vol. 161; p. 685.
Walking-rake. W. F. and J. C. Bohling. No. 976,250; Nov. 22; Sp. p. 4803; Gaz. vol. 160; p. 821.
Walking-stick and chair, Combination. J. J. Sheehan. No. 952,366; Mar. 15; Sp. p. 3836; Gaz. vol. 152; p. 686.
Wall. M. B. Ensminger and J. W. Shaffer. No. 949,527; Feb. 15; Sp. p. 3659; Gaz. vol. 151; p. 637.
Wall. T. K. Smith. No. 964,942; July 19; Sp. p. 4228; Gaz. vol. 156; p. 706.
Wall and the like, Brick. W. Stanway. No. 971,159; Sept. 27; Sp. p. 4299; Gaz. vol. 158; p. 756.
Wall, Building-. A. W. Beidler. No. 945,439; Jan. 4; Sp. p. 934; Gaz. vol. 150; p. 146.
Wall-coating and making same. R. A. G. Cale. No. 969,035; Aug. 30; Sp. p. 6796; Gaz. vol. 157; p. 1184.
Wall construction. G. W. Lambert. No. 951,010; Mar. 1; Sp. p. 1124; Gaz. vol. 152; p. 182.
Wall construction. G. W. Lambert. No. 951,011; Mar. 1; Sp. p. 1127; Gaz. vol. 152; p. 183.
Wall construction. J. K. Hoffman. No. 973,659; Oct. 25; Sp. p. 4731; Gaz. vol. 159; p. 821.
Wall construction, Composite. R. H. Robinson. No. 969,408; Sept. 6; Sp. p. 544; Gaz. vol. 158; p. 87.
Wall-covering. P. C. N. Pederson. No. 955,429; Apr. 19; Sp. p. 3743; Gaz. vol. 153; p. 657.
Wall-facing, Interior. F. Pedrick. No. 946,731; Jan. 18; Sp. p. 3836; Gaz. vol. 150; p. 640.
Wall-forming device. W. A. Kurman. No. 954,636; Apr. 12; Sp. p. 2017; Gaz. vol. 153; p. 355.
Wall-furring. J. H. Nicholson. No. 965,595; July 26; Sp. p. 5625; Gaz. vol. 156; p. 957.
Wall, Heat-insulating. C. J. Coleman. No. 958,095; May 17; Sp. p. 3598; Gaz. vol. 154; p. 607.
Wall-mold. E. W. Collins. No. 949,521; Feb. 15; Sp. p. 3646; Gaz. vol. 151; p. 635.
Wall-mold. J. W. Holman. No. 953,383; Mar. 29; Sp. p. 6044; Gaz. vol. 152; p. 1086.
Wall or switch box. F. S. Birtwhistle. No. 965,275; July 26; Sp. p. 4905; Gaz. vol. 156; p. 846.
Wall-rack. D. C. Williams. No. 976,110; Nov. 15; Sp. p. 4421; Gaz. vol. 160; p. 749.
Wall, Reinforced partition-. E. Flagg. No. 946,211; Jan. 11; Sp. p. 2637; Gaz. vol. 150; p. 439.
Wall, Retaining-. F. A. Bone. No. 975,381; Nov. 8; Sp. p. 2929; Gaz. vol. 160; p. 472.
Wall-seat wall-bed. A. L. Haley. No. 956,340; Apr. 26; Sp. p. 5756; Gaz. vol. 153; p. 1002.
Wall set. A. H. Weiss. No. 976,962; Nov. 29; Sp. p. 6375; Gaz. vol. 160; p. 1090.
Wall-socket. G. W. Goodridge. No. 977,297; Nov. 29; Sp. p. 7087; Gaz. vol. 160; p. 1206.
Wall-stirrup. P. Kosack. No. 969,289; Sept. 6; Sp. p. 293; Gaz. vol. 158; p. 48.
Wall, Storage-structure. C. A. Perfect. No. 967,426; Aug. 16; Sp. p. 3411; Gaz. vol. 157; p. 588.
Wall structure. A. C. Spitznagel. No. 952,374; Mar. 15; Sp. p. 3848; Gaz. vol. 152; p. 689.
Wall, Temporary. T. C. Clarke. No. 972,059; Oct. 4; Sp. p. 1196; Gaz. vol. 159; p. 202.
Wall-tie. L. H. Selden. No. 960,043; May 31; Sp. p. 7868; Gaz. vol. 154; p. 1321.
Wall-tie. P. Kosack. No. 963,779; July 12; Sp. p. 1670; Gaz. vol. 156; p. 279.
Wall-tie. T. P. Shean. No. 978,948; Dec. 20; Sp. p. 3281; Gaz. vol. 161; p. 581.
Wall-tie for buildings. P. Kosack. No. 963,776; July 12; Sp. p. 1665; Gaz. vol. 156; p. 278.
Wall tie or bond. A. C. Decker. No. 961,584; June 14; Sp. p. 2776; Gaz. vol. 155; p. 481.
Wall tie, Partition-. T. P. Shean. No. 980,132; Dec. 27; Sp. p. 5897; Gaz. vol. 161; p. 1007.
Walls and the like, Bond-tie for. W. H. Brown. No. 947,194; Jan. 18; Sp. p. 4816; Gaz. vol. 150; p. 794.
Walls and the like, Producing jointless material for covering. O. Fauser. No. 945,025; Jan. 4; Sp. p. 31; Gaz. vol. 150; p. 8.
Walls, Apparatus for building retaining-. F. M. Talbot. No. 957,521; May 10; Sp. p. 2190; Gaz. vol. 154; p. 378.
Walls, Apparatus for the construction of plastic. H. C. Babel. No. 955,304; Apr. 19; Sp. p. 3468; Gaz. vol. 153; p. 616.
Walls, Apparatus for the construction of plastic. H. C. Babel. No. 964,604; July 19; Sp. p. 3446; Gaz. vol. 156; p. 589.
Walls, Block-holding means for. P. Kosack. No. 963,778; July 12; Sp. p. 1669; Gaz. vol. 156; p. 279.
Walls, ceilings, &c., Construction of tiled. G. H. Metzer. No. 963,456; July 5; Sp. p. 990; Gaz. vol. 156; p. 148.
Walls, Fastening means for. H. E. Jerauld. No. 961,698; June 14; Sp. p. 2996; Gaz. vol. 155; p. 519.
Walls in shifting soils, Method of and apparatus for building masonry. J. B. Campbell. No. 974,023; Oct. 25; Sp. p. 5473; Gaz. vol. 159; p. 948.
Walls, Making collapsible and expansible corrugated. W. M. Fulton. No. 962,951; June 28; Sp. p. 5682; Gaz. vol. 155; p. 996.
Walls, Making tubular metal. W. M. Fulton. No. 971,838; Oct. 4; Sp. p. 684; Gaz. vol. 159; p. 120.

Walls or ceilings, Composition of matter used as an interior finish for. W. H. Whitney, Jr., and C. W. Griffin. No. 969,432; Sept. 6; Sp. p. 595; Gaz. vol. 158; p. 95.
War-ship. N. Soliani. No. 956,442; Apr. 26; Sp. p. 5972; Gaz. vol. 153; p. 1037.
Wardrobe or closet, Folding. P. J. Benson. No. 963,853; July 12; Sp. p. 1852; Gaz. vol. 156; p. 305.
Wardrobe, Portable. J. Leininger. No. 949,583; Feb. 15; Sp. p. 3776; Gaz. vol. 151; p. 656.
Wardrobes, Garment-support for. M. B. Chandler and M. Oosdyke. No. 945,908; Jan. 11; Sp. p. 2014; Gaz. vol. 150; p. 334.
Wardrobes, Garment-supporting slide for. C. L. Frost. No. 956,696; May 3; Sp. p. 433; Gaz. vol. 154; p. 68.
Ware, Cleansing apparatus for metallic. A. W. Obermann. No. 961,792; June 21; Sp. p. 3202; Gaz. vol. 155; p. 575.
Warm-air furnace. C. E. Stewart. No. 952,476; Mar. 22; Sp. p. 4072; Gaz. vol. 152; p. 752.
Warning apparatus, Automatic trembler particularly applicable to. E. Teste. No. 977,238; Nov. 29; Sp. p. 6982; Gaz. vol. 160; p. 1187.
Warp-beam. G. S. Cox. No. 946,534; Jan. 18; Sp. p. 3439; Gaz. vol. 150; p. 578.
Warp-beam. J. Keeton. No. 946,757; Jan. 18; Sp. p. 3898; Gaz. vol. 150; p. 650.
Warp-drawing machine. A. P. Dietz. No. 945,022; Jan. 4; Sp. p. 22; Gaz. vol. 150; p. 7.
Warp drying-machine, Sized-. G. Masurel. No. 959,570; May 31; Sp. p. 6814; Gaz. vol. 154; p. 1160.
Warp-handling apparatus. H. D. Colman. No. 955,383; Apr. 19; Sp. p. 3648; Gaz. vol. 153; p. 642.
Warp-handling apparatus. H. D. Colman. No. 962,400; June 21; Sp. p. 4521; Gaz. vol. 155; p. 780.
Warp-linking machine. G. B. Cocker. No. 969,155; Sept. 6; Sp. p. 8; Gaz. vol. 158; p. 4.
Warp-machine, Traverse. H. W. Bloemker. No. 967,314; Aug. 16; Sp. p. 3167; Gaz. vol. 157; p. 548.
Warp-printing machines, Prismatic drum for. A. Hofmann. No. 964,023; July 12; Sp. p. 2200; Gaz. vol. 156; p. 361.
Warp-printing machines, Yarn-carrier for. A. Hofmann. No. 964,022; July 12; Sp. p. 2199; Gaz. vol. 156; p. 361.
Warp-reel and hand-loom tension. R. P. Hill. No. 975,618; Nov. 15; Sp. p. 3424; Gaz. vol. 160; p. 581.
Warp stop mechanism. J. W. Bounds and J. C. Ellenburg. No. 973,102; Oct. 18; Sp. p. 3505; Gaz. vol. 159; p. 605.
Warp stop mechanism. J. K. Lanning. No. 976,379; Nov. 22; Sp. p. 5090; Gaz. vol. 160; p. 864.
Warp-threads, Means for clamping and stretching. H. D. Colman. No. 963,871; July 12; Sp. p. 1896; Gaz. vol. 156; p. 311.
Warp-uniting mechanism. H. A. Hansen and M. E. Petersen. No. 954,862; Apr. 12; Sp. p. 2561; Gaz. vol. 153; p. 436.
Warps, Spacing device for. J. G. Gourdeau. No. 954,512; Apr. 12; Sp. p. 1746; Gaz. vol. 153; p. 313.
Warping-machine. C. A. Steere. No. 946,164; Jan. 11; Sp. p. 2536; Gaz. vol. 150; p. 423.
Warping-machine. F. L. Atherton. No. 964,366; July 12; Sp. p. 2885; Gaz. vol. 156; p. 476.
Warping-machine. A. Murphy. No. 970,085; Sept. 13; Sp. p. 2029; Gaz. vol. 158; p. 345.
Warping-machine attachment. T. A. Moore. No. 954,199; Apr. 5; Sp. p. 1064; Gaz. vol. 153; p. 181.
Warping-machines, Tension mechanism for. A. E. Rhoades. No. 951,888; Mar. 15; Sp. p. 2917; Gaz. vol. 152; p. 528.
Washer: *See* Bolt-washer; Bottle-washer; Clothes-washer; Coal-washer; Dish-washer; Filter-pulp washer; Lock-washer; Ore and coal washer; Receptacle-washer; Rotary power-washer; Sand-washer; Securing-washer; Smoke-washer; Spring locking-washer; Tie-plate washer; Vegetable-washer; Vehicle-washer; Wagon-bolster washer; Wool-washer.
Washer. J. B. Vannoy. No. 948,600; Feb. 8; Sp. p. 1738; Gaz. vol. 151; p. 300.
Washer. W. E. Coffin. No. 951,766; Mar. 8; Sp. p. 2645; Gaz. vol. 152; p. 457.
Washer and gasket cutter. J. A. Rose. No. 958,941; May 24; Sp. p. 5502; Gaz. vol. 154; p. 923.
Washers, Making steel spring-. J. E. Wilson. No. 978,974; Dec. 20; Sp. p. 3362; Gaz. vol. 161; p. 591.
Washing and cleaning machine for textile fabrics and the like. P. Güngerich. No. 971,745; Oct. 4; Sp. p. 497; Gaz. vol. 159; p. 86.
Washing and conveying apparatus, Combined. A. L. Duncan. No. 962,628; June 28; Sp. p. 5058; Gaz. vol. 155; p. 884.
Washing and other machines, Squeeze-roll for. F. L. Furbush. No. 963,540; July 5; Sp. p. 1159; Gaz. vol. 156; p. 177.
Washing and rinsing clothes and the like by means of benzene, Apparatus for. H. Resch. No. 969,118; Aug. 30; Sp. p. 6970; Gaz. vol. 157; p. 1213.
Washing apparatus. F. Stocker. No. 966,869; Aug. 9; Sp. p. 2246; Gaz. vol. 157; p. 369.
Washing apparatus, Centrifugal separating. L. C. Trent. No. 978,238; Dec. 13; Sp. p. 1780; Gaz. vol. 161; p. 312.
Washing clothes. G. D. Burton. No. 976,035; Nov. 15; Sp. p. 4260; Gaz. vol. 160; p. 723.
Washing-machine. W. J. Delmage. No. 945,021; Jan. 4; Sp. p. 21; Gaz. vol. 150; p. 6.
Washing-machine. J. H. Hollingsworth. No. 945,095; Jan. 4; Sp. p. 187; Gaz. vol. 150; p. 32.
Washing-machine. C. H. Mallory. No. 945,131; Jan. 4; Sp. p. 249; Gaz. vol. 150; p. 43.
Washing-machine. C. R. Smith. No. 947,134; Jan. 18; Sp. p. 4691; Gaz. vol. 150; p. 775.
Washing-machine. F. Stines. No. 947,285; Jan. 25; Sp. p. 5057; Gaz. vol. 150; p. 855.
Washing-machine. W. R. Kramer. No. 947,555; Jan. 25; Sp. p. 5698; Gaz. vol. 150; p. 946.
Washing-machine. J. Vierling. No. 947,565; Jan. 25; Sp. p. 5718; Gaz. vol. 150; p. 949.
Washing-machine. L. R. English. No. 947,611; Jan. 25; Sp. p. 5817; Gaz. vol. 150; p. 966.
Washing-machine. W. A. E. Henrici. No. 947,776; Jan. 25; Sp. p. 6117; Gaz. vol. 150; p. 1020.
Washing-machine. W. M. Kincaid. No. 947,916; Feb. 1; Sp. p. 284; Gaz. vol. 151; p. 48.
Washing-machine. J. Schwartz. No. 948,255; Feb. 1; Sp. p. 971; Gaz. vol. 151; p. 159.
Washing-machine. H. E. Farrar. No. 950,069; Feb. 22; Sp. p. 4872; Gaz. vol. 151; p. 857.
Washing-machine. H. Paulus. No. 950,209; Feb. 22; Sp. p. 5165; Gaz. vol. 151; p. 906.
Washing-machine. J. H. Ostertag. No. 950,575; Mar. 1; Sp. p. 237; Gaz. vol. 152; p. 39.
Washing-machine. S. S. Blocher. No. 950,743; Mar. 1; Sp. p. 612; Gaz. vol. 152; p. 97.
Washing-machine. T. J. Burgess. No. 951,233; Mar. 8; Sp. p. 1553; Gaz. vol. 152; p. 279.
Washing-machine. J. H. Bullock. No. 951,629; Mar. 8; Sp. p. 2367; Gaz. vol. 152; p. 410.
Washing-machine. C. F. Ladwig. No. 951,951; Mar. 15; Sp. p. 3035; Gaz. vol. 152; p. 549.
Washing-machine. J. E. Gribben. No. 952,192; Mar. 15; Sp. p. 3480; Gaz. vol. 152; p. 627.
Washing-machine. T. F. Vandegrift and J. W. Gordon. No. 952,388; Mar. 15; Sp. p. 3875; Gaz. vol. 152; p. 694.
Washing-machine. F. W. Kranz. No. 952,818; Mar. 22; Sp. p. 4834; Gaz. vol. 152; p. 869.
Washing-machine. F. H. Whitcomb and R. R. Faulkner. No. 953,078; Mar. 29; Sp. p. 5358; Gaz. vol. 152; p. 985.
Washing-machine. C. W. Hill. No. 953,087; Mar. 29; Sp. p. 5391; Gaz. vol. 152; p. 988.
Washing-machine. A. T. Powell. No. 953,227; Mar. 29; Sp. p. 5693; Gaz. vol. 152; p. 1034.
Washing-machine. G. S. Winant. No. 953,882; Apr. 5; Sp. p. 394; Gaz. vol. 153; p. 72.
Washing-machine. R. G. Irey. No. 954,103; Apr. 5; Sp. p. 855; Gaz. vol. 153; p. 147.
Washing-machine. J. Hofmann. No. 954,187; Apr. 5; Sp. p. 1043; Gaz. vol. 153; p. 176.
Washing-machine. D. Hawley. No. 954,802; Apr. 12; Sp. p. 2423; Gaz. vol. 153; p. 414.
Washing-machine. S. R. Maxwell and G. E. Hymer. No. 955,181; Apr. 19; Sp. p. 3196; Gaz. vol. 153; p. 574.
Washing-machine. J. W. Walter. No. 956,458; Apr. 26; Sp. p. 6008; Gaz. vol. 153; p. 1042.
Washing-machine. W. H. Wyman. No. 957,024; May 3; Sp. p. 1140; Gaz. vol. 154; p. 180.
Washing-machine. W. H. Preston. No. 957,475; May 10; Sp. p. 2093; Gaz. vol. 154; p. 363.
Washing-machine. J. F. and W. P. Burkholder. No. 959,992; May 31; Sp. p. 7730; Gaz. vol. 154; p. 1302.
Washing-machine. J. Hulkenberg and B. J. Mattes. No. 960,330; June 7; Sp. p. 178; Gaz. vol. 155; p. 33.
Washing-machine. G. S. Winant. No. 960,473; June 7; Sp. p. 464; Gaz. vol. 155; p. 78.
Washing-machine. S. Evenson. No. 960,866; June 7; Sp. p. 1262; Gaz. vol. 155; p. 211.
Washing-machine. H. S. Judd. No. 962,510; June 28; Sp. p. 4791; Gaz. vol. 155; p. 844.
Washing-machine. J. Vierling. No. 962,803; June 28; Sp. p. 5418; Gaz. vol. 155; p. 946.
Washing-machine. E. C. Brown. No. 963,116; July 5; Sp. p. 238; Gaz. vol. 156; p. 32.
Washing-machine. D. L. Hough. No. 964,106; July 12; Sp. p. 2381; Gaz. vol. 156; p. 390.
Washing-machine. S. Flowers. No. 964,227; July 12; Sp. p. 2614; Gaz. vol. 156; p. 430.
Washing-machine. J. F. Hoglund. No. 964,778; July 19; Sp. p. 3905; Gaz. vol. 156; p. 649.
Washing-machine. D. Cameron. No. 966,080; Aug. 2; Sp. p. 507; Gaz. vol. 157; p. 82.
Washing-machine. L. Wagoner. No. 967,864; Aug. 16; Sp. p. 4287; Gaz. vol. 157; p. 734.
Washing-machine. F. B. Raymond. No. 968,413; Aug. 23; Sp. p. 5483; Gaz. vol. 157; p. 945.
Washing-machine. F. H. Wiard. No. 969,823; Sept. 13; Sp. p. 1474; Gaz. vol. 158; p. 255.
Washing-machine. L. Harris. No. 969,952; Sept. 13; Sp. p. 1743; Gaz. vol. 158; p. 299.
Washing-machine. J. C. Forster. No. 970,205; Sept. 13; Sp. p. 2280; Gaz. vol. 158; p. 385.

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Washing-machine. J. P. Dorau. No. 971,027; Sept. 27; Sp. p. 4015; Gaz. vol. 158; p. 713.
Washing-machine. S. J. Harding. No. 971,993; Oct. 4; Sp. p. 1071; Gaz. vol. 159; p. 179.
Washing-machine. F. Paul, Jr. No. 972,714; Oct. 11; Sp. p. 2623; Gaz. vol. 159; p. 445.
Washing-machine. W. P. Tippit. No. 972,736; Oct. 11; Sp. p. 2672; Gaz. vol. 159; p. 453.
Washing-machine. T. S. Patterson. No. 974,591; Nov. 1; Sp. p. 1178; Gaz. vol. 160; p. 180.
Washing-machine. D. Hawley. No. 976,362; Nov. 22; Sp. p. 5052; Gaz. vol. 160; p. 857.
Washing-machine. I. Yassenoff. No. 977,772; Dec. 6; Sp. p. 779; Gaz. vol. 161; p. 121.
Washing-machine. S. E. Beelman. No. 979,733; Dec. 27; Sp. p. 5007; Gaz. vol. 161; p. 874.
Washing-machine and boiler, Combined. M. McKuen. No. 957,361; May 10; Sp. p. 1868; Gaz. vol. 154; p. 325.
Washing-machine attachment. E. J. McCauley. No. 967,032; Aug. 9; Sp. p. 2591; Gaz. vol. 157; p. 425.
Washing-machine attachment for stationary washtubs. W. Walton, Jr. No. 946,175; Jan. 11; Sp. p. 2572; Gaz. vol. 150; p. 427.
Washing-machine cylinder. J. R. Golter. No. 946,348; Jan. 11; Sp. p. 2938; Gaz. vol. 150; p. 487.
Washing-machine cylinder. T. J. Calloway. No. 956,479; Apr. 26; Sp. p. 6056; Gaz. vol. 153; p. 1050.
Washing-machine cylinder. J. A. McKee. No. 967,818; Aug. 16; Sp .p. 4194; Gaz. vol. 157; p. 718.
Washing-machine cylinders, Sliding door for. F. M. Raymond. No. 947,700; Jan. 25; Sp. p. 5979; Gaz. vol. 150; p. 995.
Washing-machine dolly. R. B. Goodrich. No. 969,359; Sept. 6; Sp. p. 441; Gaz. vol. 158; p. 71.
Washing-machine drive-gearing. F. Kostlan. No. 955,413; Apr. 19; Sp. p. 3713; Gaz. vol. 153; p. 652.
Washing-machine drive mechanism. A. J. Fisher. No. 966,677; Aug. 9; Sp. p. 1789; Gaz. vol. 157; p. 306.
Washing-machine driving mechanism. D. O. Makean. No. 950,725; Mar. 1; Sp. p. 576; Gaz. vol. 152; p. 90.
Washing-machine driving mechanism. W. H. George. No. 965,811; July 26; Sp. p. 6084; Gaz. vol. 156; p. 1031.
Washing-machine gearing. B. A. Stocking and H. Mendenhall. No. 946,790; Jan. 18; Sp. p. 3975; Gaz. vol. 150; p. 661.
Washing-machine gearing. H. L. Staley. No. 958,189; May 17; Sp. p. 3787; Gaz. vol. 154; p. 640.
Washing-machine gearing. O. H. Watkins. No. 958,452; May 17; Sp. p. 4473; Gaz. vol. 154; p. 732.
Washing-machine gearing. R. Winger and L. E. Johnston. No. 968,302; Aug. 23; Sp. p. 5263; Gaz. vol. 157; p. 906.
Washing-machine, Laundry. E. Probst. No. 962,526; June 28; Sp. p. 4831; Gaz. vol. 155; p. 850.
Washing-machine-operating mechanism. J. Edens. No. 946,115; Jan. 11; Sp. p. 2432; Gaz. vol. 150; p. 405.
Washing-machine-operating mechanism. G. N. Meves. No. 961,877; June 21; Sp. p. 3412; Gaz. vol. 155; p. 603.
Washing-machine-operating mechanism. G. N. Meves. No. 961,878; June 21; Sp. p. 3417; Gaz. vol. 155; p. 604.
Washing-machine-operating mechanism. G. N. Meves. No. 961,879; June 21; Sp. p. 3421; Gaz. vol. 155; p. 604.
Washing-machine-operating mechanism. G. N. Meves. No. 962,158; June 21; Sp. p. 4034; Gaz. vol. 155; p. 700.
Washing-machine pounder. F. P. Narber. No. 953,542; Mar. 29; Sp. p. 6382; Gaz. vol. 152; p. 1142.
Washing-machine water-motor. J. D. Williome. No. 968,016; Aug. 23; Sp. p. 4628; Gaz. vol. 157; p. 808.
Washing-machines and other containers, Hasp-handle for. J. P. Holtzhouser. No. 958,745; May 24; Sp. p. 5058; Gaz. vol. 154; p. 854.
Washing-machines, Clothes-pounder for. W. L. Roberts. No. 952,641; Mar. 22; Sp. p. 4448; Gaz. vol. 152; p. 810.
Washing-machines, Motor-mounting for. I. Yassenoff. No. 975,919; Nov. 15; Sp. p. 4057; Gaz. vol. 160; p. 683.
Washing-machines, Sliding door for outer cases of sterilizing. F. M. Raymond. No. 947,701; Jan. 25; Sp. p. 5981; Gaz. vol. 150; p. 995.
Washing-machines, Supply-controller for. S. B. Dane. No. 945,083; Jan. 4; Sp. p. 162; Gaz. vol. 150; p. 27.
Washing, rinsing, draining, and drying textile materials, Benzin apparatus for. U. Röthlisberger. No. 975,078; Nov. 8; Sp. p. 2266; Gaz. vol. 160; p. 369.
Wash bowl and basin trap. A. McIntosh. No. 977,319; Nov. 29; Sp. p. 7126; Gaz. vol. 160; p. 1213.
Washbasin. J. Hartness. No. 971,839; Oct. 4; Sp. p. 688; Gaz. vol. 159; p. 121.
Washbasin-supporting device. D. R. Byron. No. 979,127; Dec. 20; Sp. p. 3727; Gaz. vol. 161; p. 645.
Washbench. J. I. Harrington. No. 957,880; May 17; Sp. p. 2928; Gaz. vol. 154; p. 530.
Washboard. C. A. Weirich. No. 945,354; Jan. 4; Sp. p. 761; Gaz. vol. 150; p. 117.
Washboard. E. N. Maull. No. 946,552; Jan. 18; Sp. p. 3465; Gaz. vol. 150; p. 583.
Washboard. E. Hodgman. No. 946,697; Jan. 18; Sp. p. 3761; Gaz. vol. 150; p. 629.
Washboard. G. F. Ullrich and O. L. Weigert. No. 948,909; Feb. 8; Sp. p. 2378; Gaz. vol. 151; p. 405.
Washboard. J. W. Gribble. No. 954,429; Apr. 12; Sp. p. 1544; Gaz. vol. 153; p. 284.
Washboard. J. Sternad. No. 957,011; May 3; Sp. p. 1112; Gaz. vol. 154; p. 175.
Washboard. D. Stein. No. 957,122; May 3; Sp. p. 1327; Gaz. vol. 154; p. 212.
Washboard. A. Penovi and H. A. Breene. No. 962,046; June 21; Sp. p. 3760; Gaz. vol. 155; p. 660.
Washboard. C. P. St. John. No. 962,598; June 28; Sp. p. 4998; Gaz. vol. 155; p. 875.
Washboard. J. W. Thies. No. 964,335; July 12; Sp. p. 2832; Gaz. vol. 156; p. 467.
Washboard. H. J. Benton. No. 964,372; July 12; Sp. p. 2896; Gaz. vol. 156; p. 478.
Washboard. C. B. Tompkins. No. 973,320; Oct. 18; Sp. p. 3985; Gaz. vol. 159; p. 682.
Washboard. N. O. Bond. No. 979,371; Dec. 20; Sp. p. 4214; Gaz. vol. 161; p. 726.
Washboard attachment. J. R. Casey. No. 962,891; June 28; Sp. p. 5586; Gaz. vol. 155; p. 977.
Washboard-clamp. J. E. Terhune. No. 948,907; Feb. 8; Sp. p. 2376; Gaz. vol. 151; p. 404.
Washboiler. S. C. Logan. No. 948,897; Feb. 8; Sp. p. 2359; Gaz. vol. 151; p. 401.
Washboiler. R. J. Fitzgerald. No. 968,041; Aug. 23; Sp. p. 4678; Gaz. vol. 157; p. 818.
Washboiler. C. J. Linderholm. No. 968,778; Aug. 30; Sp. p. 6291; Gaz. vol. 157; p. 1098.
Washboiler. H. B. Hemphill. No. 970,922; Sept. 20; Sp. p. 3809; Gaz. vol. 158; p. 650.
Washboiler. J. O. Cooper. No. 972,341; Oct. 11; Sp. p. 1790; Gaz. vol. 159; p. 314.
Washboiler. G. Robinson. No. 975,573; Nov. 15; Sp. p. 3337; Gaz. vol. 160; p. 566.
Washboiler. L. A. Le Roy. No. 977,644; Dec. 6; Sp. p. 513; Gaz. vol. 161; p. 77.
Washboiler attachment. W. F. Fessler. No. 948,008; Feb. 1; Sp. p. 472; Gaz. vol. 151; p. 76.
Washboiler attachment. W. H. Rich. No. 949,687; Feb. 15; Sp. p. 3957; Gaz. vol. 151; p. 689.
Washboiler attachment. E. M. Worden. No. 950,711; Mar. 1; Sp. p. 546; Gaz. vol. 152; p. 86.
Washboiler attachment. J. McGregor. No. 975,055; Nov. 8; Sp. p. 2220; Gaz. vol. 160; p. 361.
Washbowl cabinet, Stationary-. A. J. Matter. No. 954,121; Apr. 5; Sp. p. 881; Gaz. vol. 153; p. 153.
Washpail. G. H. Reeves. No. 961,531; June 14; Sp. p. 2667; Gaz. vol. 155; p. 464.
Washstand. T. Dunbar. No. 965,164; July 26; Sp. p. 4674; Gaz. vol. 156; p. 810.
Washstand. L. J. Hoffman. No. 969,694; Sept. 6; Sp. p. 1143; Gaz. vol. 158; p. 185.
Washstand-support. A. V. Conradt. No. 951,597; Mar. 8; Sp. p. 2297; Gaz. vol. 152; p. 399.
Washtray. L. L. Browne. No. 962,419; June 28; Sp. p. 4600; Gaz. vol. 155; p. 812.
Washtub, sink, and drain-board cover, Combined. H. A. Fredenhagen. No. 964,857; July 19; Sp. p. 4062; Gaz. vol. 156; p. 676.
Washtub-support. R. E. Bohrer. No. 979,123; Dec 20; Sp. p. 3717; Gaz. vol. 161; p. 644.
Washtub waste connection. T. G. Andrews. No. 967,483; Aug. 16; Sp. p. 3531; Gaz. vol. 157; p. 606.
Waste and overflow, Basin. W. E. Hinsdale. No. 974,146; Nov. 1; Sp. p. 78; Gaz. vol. 160; p. 15.
Waste and overflow, Combined. H. and P. Mueller. No. 962,577; June 28; Sp. p. 4954; Gaz. vol. 155; p. 808.
Waste and overflow trap. E. W. N. Bocsey. No. 947,786; Feb. 1; Sp. p. 20; Gaz. vol. 151; p. 5.
Waste-plug-controlling device. W. H. Schulte. No. 974,926; Nov. 8; Sp. p. 1923; Gaz. vol. 160; p. 318.
Waste-plug mechanism for lavatories and the like. J. Allingham. No. 948,033; Feb. 1; Sp. p. 532; Gaz. vol. 151; p. 85.
Watch. F. R. Alford. No. 945,667; Jan. 4; Sp. p. 1413; Gaz. vol. 150; p. 221.
Watch. W. B. Mehl and W. H. Ebelhare. No. 946,906; Jan. 18; Sp. p. 4275; Gaz. vol. 150; p. 702.
Watch. C. H. Meylan. No. 952,921; Mar. 22; Sp. p. 5030; Gaz. vol. 152; p. 904.
Watch and clock center-friction. F. Wehinger. No. 958,987; May 24; Sp. p. 5590; Gaz. vol. 154; p. 939.
Watch-barrel. W. B. Mehl. No. 978,613; Dec. 13; Sp. p. 2607; Gaz. vol. 161; p. 444.
Watch dial-foot. W. C. Bail. No. 974,460; Nov. 1; Sp. p. 888; Gaz. vol. 160; p. 131.
Watch, Eight-day. J. F. Sandoz. No. 963,398; July 5; Sp. p. 876; Gaz. vol. 156; p. 129.
Watch-holder for motor-vehicles. H. T. Adams. No. 961,571; June 14; Sp. p. 2755; Gaz. vol. 155; p. 477.
Watch-holding case. W. E. Porter. No. 947,936; Feb. 1; Sp. p. 338; Gaz. vol. 151; p. 54.
Watch-holding case. W. E. Porter. No. 947,937; Feb. 1; Sp. p. 339; Gaz. vol. 151; p. 54.
Watch-holding case. W. E. Porter. No. 949,364; Feb. 15; Sp. p. 3328; Gaz. vol. 151; p. 583.
Watch maker's and repairer's tool. E. N. Mann. No. 957,228; May 10; Sp. p. 1583; Gaz. vol. 154; p. 279.
Watch-movement. W. B. Mehl. No. 946,385; Jan. 11; Sp. p. 3113; Gaz. vol. 150; p. 500.
Watch-movement. W. B. Mehl. No. 977,320; Nov. 29; Sp. p. 7128; Gaz. vol. 160; p. 1213.

Watch-movement. W. B. Mehl. No. 977,321; Nov. 29; Sp. p. 7129; Gaz. vol. 160; p. 1214.
Watch-movement click. W. H. Ebelhare. No. 951,106; Mar. 8; Sp. p. 1306; Gaz. vol. 152; p. 239.
Watch-movement ratchet mechanism. W. H. Ebelhare. No. 971,496; Sept. 27; Sp. p. 4946; Gaz. vol. 158; p. 866.
Watch-movement ratchet mechanism. H. M. Groff. No. 971,500; Sept. 27; Sp. p. 4955; Gaz. vol. 158; p. 867.
Watch-movement ratchet mechanism. W. H. Ebelhare. No. 977,286; Nov. 29; Sp. p. 7071; Gaz. vol. 160; p. 1203.
Watch-movements, End-stone cap for. W. B. Mehl. No. 978,612; Dec. 13; Sp. p. 2606; Gaz. vol. 161; p. 444.
Watch-movements, Tool for removing the rollers of balance-wheel staffs in. A. F. Robbins. No. 979,562; Dec. 27; Sp. p. 4638; Gaz. vol. 161; p. 814.
Watch-pocket. M. W. Dana. No. 964,620; July 19; Sp. p. 3476; Gaz. vol. 156; p. 594.
Watch-protector. B. Greenberg. No. 953,527; Mar. 29; Sp. p. 6355; Gaz. vol. 152; p. 1138.
Watch-regulator. W. E. Porter. No. 948,652; Feb. 8; Sp. p. 1849; Gaz. vol. 151; p. 319.
Watch, Repeating. H. M. and O. Reiner. No. 959,165; May 24; Sp. p. 5972; Gaz. vol. 154; p. 998.
Watch-stem movement. G. W. Grisdale, Jr. No. 960,166; May 31; Sp. p. 8091; Gaz. vol. 154; p. 1361.
Watch, Stem winding and setting. F. Wehinger. No. 968,436; Aug. 23; Sp. p. 5526; Gaz. vol. 157; p. 953.
Watch, Stop-. E. A. Dupuis. No. 972,520; Oct. 11; Sp. p. 2194; Gaz. vol. 159; p. 379.
Watch winding and setting mechanism. E. Wolf. No. 966,149; Aug. 2; Sp. p. 650; Gaz. vol. 157; p. 104.
Watch winding-indicator. L. L. D. Elderkin. No. 966,671; Aug. 9; Sp. p. 1779; Gaz. vol. 157; p. 304.
Watch-winding machine. L. T. Scott. No. 949,781; Feb. 22; Sp. p. 4185; Gaz. vol. 151; p. 756.
Watches and watch-clocks, Self-mounting case for. E. Hart. No. 950,780; Mar. 1; Sp. p. 691; Gaz. vol. 152; p. 110.
Watches, Crown for winding-stems of. H. Axtell. No. 951,672; Mar. 8; Sp. p. 2457; Gaz. vol. 152; p. 425.
Watches, Stem winding and setting mechanism for. G. Kern. No. 955,336; Apr. 19; Sp. p. 3548; Gaz. vol. 153; p. 627.
Watchcase. E. J. Wittnauer. No. 969,589; Sept. 6; Sp. p. 949; Gaz. vol. 158; p. 150.
Watchcase. J. K. Worrell. No. 969,680; Sept. 6; Sp. p. 1122; Gaz. vol. 158; p. 181.
Watchcase-bow. B. Levy. No. 971,053; Sept. 27; Sp. p. 4081; Gaz. vol. 158; p. 722.
Watchcase-bows, Forming. J. Ullberg and B. Levy. No. 946,082; Jan. 11; Sp. p. 2370; Gaz. vol. 150; p. 394.
Watchmaker's loop. W. Faustman. No. 961,592; June 14; Sp. p. 2803; Gaz. vol. 155; p. 484.
Watchmaker's tool. R. G. Watts. No. 964,347; July 12; Sp. p. 2857; Gaz. vol. 156; p. 471.
Watchmaker's tool, Combination. H. Lutz. No. 978,317; Dec. 13; Sp. p. 1953; Gaz. vol. 161; p. 341.
Water and air proof composition of matter. H. Mielck and F. C. von Heydebrand. No. 977,423; Nov. 29; Sp. p. 7388; Gaz. vol. 160; p. 1249.
Water, Apparatus for purification of. A. O. Anderberg. No. 961,926; June 21; Sp. p. 3507; Gaz. vol. 155; p. 620.
Water, Apparatus for raising temperature of. J. W. Parker and F. L. Hurtt. No. 962,405; June 21; Sp. p. 4534; Gaz. vol. 155; p. 782.
Water, Apparatus for the continuous purification of. C. H. Koyl. No. 960,959; June 7; Sp. p. 1438; Gaz. vol. 155; p. 242.
Water as motive power, Device for utilizing tide-. S. M. Smith. No. 946,585; Jan. 18; Sp. p. 3521; Gaz. vol. 150; p. 593.
Water, Automatic supply and heating. R. C. Sayer. No. 951,514; Mar. 8; Sp. p. 2140; Gaz. vol. 152; p. 371.
Water-closet. P. J. O'Brien. No. 946,861; Jan. 18; Sp. p. 4151; Gaz. vol. 150; p. 686.
Water-closet. J. A. Barr. No. 947,782; Feb. 1; Sp. p. 9; Gaz. vol. 151; p. 4.
Water-closet. C. H. Moore. No. 953,484; Mar. 29; Sp. p. 6254; Gaz. vol. 152; p. 1121.
Water-closet. W. G Miller. No. 956,988; May 3; Sp. p. 1065; Gaz. vol. 154; p. 167.
Water-closet. S. A. Quinn. No. 968,411; Aug. 23; Sp. p. 5480; Gaz. vol. 157; p. 944.
Water-closet. G. Wachenfeld. No. 971,706; Oct. 4; Sp. p. 406; Gaz. vol. 159; p. 71.
Water-closet. S. W. Lewis. No. 972,388; Oct. 11; Sp. p. 1890; Gaz. vol. 159; p. 332.
Water-closet. P. A. Curtin. No. 975,678; Nov. 15; Sp. p. 3573; Gaz. vol. 160; p. 601.
Water-closet attachment. J. W. Spalding. No. 953,302; Mar. 29; Sp. p. 5853; Gaz. vol. 152; p. 1058.
Water-closet bowl. J. F. Kelly. No. 952,531; Mar. 22; Sp. p. 4194; Gaz. vol. 152; p. 770.
Water-closet bowl. A. T. Lueckenbach. No. 975,550; Nov. 15; Sp. p. 3290; Gaz. vol. 160; p. 558.
Water-closet bowl, Vented. J. F. Kelly. No. 963,297; July 5; Sp. p. 676; Gaz. vol. 156; p. 95.
Water-closet cistern. R. E. Crane. No. 954,934; Apr. 12; Sp. p. 2720; Gaz. vol. 153; p. 460.
Water-closet connection. J. J. Cosgrove. No. 961,685; June 14; Sp. p. 2978; Gaz. vol. 155; p. 515.
Water-closet connection. J. J. Cosgrove. No. 962,943; June 28; Sp. p. 5671; Gaz. vol. 155; p. 993.
Water-closet connection. J. J. Cosgrove. No. 963,688; July 5; Sp. p. 1440; Gaz. vol. 156; p. 226.
Water-closet-flushing attachment. P. J. Madden. No. 978,914; Dec. 20; Sp. p. 3201; Gaz. vol. 161; p. 569.
Water-closet hinge connection. J. H. Pryor. No. 976,395; Nov. 22; Sp. p. 5135; Gaz. vol. 160; p. 870.
Water-closet, Portable sanitary. P. F. Tarnawski. No. 971,803; Oct. 4; Sp. p. 606; Gaz. vol. 159; p. 106.
Water-closet seat. H. S. Rumsey. No. 949,199; Feb. 15; Sp. p. 2978; Gaz. vol. 151; p. 527.
Water-closet seat. P. Shwab. No. 963,820; July 12; Sp. p. 1770; Gaz. vol. 156; p. 293.
Water-closet seat. J. H. Becker. No. 965,063; July 19; Sp. p. 4478; Gaz. vol. 156; p. 745.
Water-closet seat and cover, Metallic. F. A. Stephan. No. 969,144; Aug. 30; Sp. p. 7028; Gaz. vol. 157; p. 1222.
Water-closet seat, Auxiliary. J. G. Steffee. No. 948,798; Feb. 8; Sp. p. 2161; Gaz. vol. 151; p. 368.
Water-closet spring attachment. J. W. Spalding. No. 952,956; Mar. 22; Sp. p. 5103; Gaz. vol. 152; p. 916.
Water-closet, &c., tank. G. H. Bailey. No. 948,657; Feb. 8; Sp. p. 1858; Gaz. vol. 151; p. 320.
Water-closet, &c., tank. G. H. Bailey. No. 948,658; Feb. 8; Sp. p. 1859; Gaz. vol. 151; p. 321.
Water-closet tanks, Push-lever for. R. E. Crane. No. 977,937; Dec. 6; Sp. p. 1118; Gaz. vol. 161; p. 179.
Water-closet valve. G. W. Fleming. No. 955,780; Apr. 19; Sp. p. 4503; Gaz. vol. 153; p. 778.
Water-closet valve. B. T. Beardsley. No. 966,407; Aug. 2; Sp. p. 1162; Gaz. vol. 157; p. 188.
Water-closet valve. E. G. Watrous. No. 974,939; Nov. 8; Sp. p. 1954; Gaz. vol. 160; p. 322.
Water-closet valve. E. G. Watrous. No. 975,664; Nov. 15; Sp. p. 3545; Gaz. vol. 160; p. 597.
Water-closet-valve-operating connection. E. G. Watrous. No. 975,812; Nov. 15; Sp. p. 3835; Gaz. vol. 160; p. 646.
Water-closet-ventilating device. A. A. and A. J. Bruder. No. 962,490; June 28; Sp. p. 4755; Gaz. vol. 155; p. 837.
Water-closets, urinals, &c., Apparatus for the automatic delivery of disinfectants to the flushing-water of. A. E. Smith. No. 969,729; Sept. 6; Sp. p. 1220; Gaz. vol. 158; p. 197.
Water-column spout. F. C. Anderson. No. 969,321; Sept. 6; Sp. p. 356; Gaz. vol. 158; p. 58.
Water-conserving system, Hot-. J. E. Rollins. No. 977,841; Dec. 6; Sp. p. 913; Gaz. vol. 161; p. 144.
Water-controlling device. E. P. Gaylord. No. 955,150; Apr. 19; Sp. p. 3136; Gaz. vol. 153; p. 563.
Water-cooler. A. N. Rose. No. 962,529; June 28; Sp. p. 4837; Gaz. vol. 155; p. 851.
Water-cooler. R. W. Ammons. No. 964,734; July 19; Sp. p. 3810; Gaz. vol. 156; p. 634.
Water-cooler. A. W. Cram and W. A. Claridge. No. 979,440; Dec. 27; Sp. p. 4364; Gaz. vol. 161; p. 772.
Water cooler and filter, Combined. W. A. Hull. No. 970,504; Sept. 20; Sp. p. 2899; Gaz. vol. 158; p. 507.
Water-cooler, Hygienic. A. H. Tyson. No. 953,648; Mar. 29; Sp. p. 6594; Gaz. vol. 152; p. 1178.
Water crib or caisson. F. P. Fensky. No. 976,257; Nov. 22; Sp. p. 4823; Gaz. vol. 160; p. 823.
Water-current power system. C. F. A. Röell. No. 954,999; Apr. 12; Sp. p. 2839; Gaz. vol. 153; p. 482.
Water-currents, Soil-reclaiming means for. J. W. Kellner. No. 949,933; Feb. 22; Sp. p. 4537; Gaz. vol. 151; p. 810.
Water electrolytically, Purifying. H. B. Hartman. No. 951,311; Mar. 8; Sp. p. 1724; Gaz. vol. 152; p. 304.
Water-elevating apparatus. R. H. Richardson. No. 964,693; July 19; Sp. p. 3732; Gaz. vol. 156; p. 620.
Water-elevating apparatus. O. A. Roed. No. 969,727; Sept. 6; Sp. p. 1215; Gaz. vol. 158; p. 197.
Water-elevating device. J. R. Hall. No. 967,122; Aug. 9; Sp. p. 2785; Gaz. vol. 157; p. 456.
Water-elevating device, Automatic. G. Baldwin. No. 960,775; June 7; Sp. p. 1088; Gaz. vol. 155; p. 182.
Water-elevator. J. L. Wray. No. 955,301; Apr. 19; Sp. p. 3464; Gaz. vol. 153; p. 615.
Water-elevator. J. B. Kirk. No. 965,304; July 26; Sp. p. 4974; Gaz. vol. 156; p. 856.
Water elevator and distributer. R. L. Sanders. No. 950,960; Mar. 1; Sp. p. 1045; Gaz. vol. 152; p. 167.
Water-elevator, Automatic. A. E. Hodder. No. 968,661; Aug. 30; Sp. p. 6024; Gaz. vol. 157; p. 1058.
Water-elevator, Compressed-air. E. C. Smith and W. A. Crumpacker. No. 976,004; Nov. 15; Sp. p. 4207; Gaz. vol. 160; p. 712.
Water-feed regulator. W. A. Kitts, Sr. and Jr. No. 946,139; Jan. 11; Sp. p. 2474; Gaz. vol. 150; p. 413.
Water from its contained iron in a continuous circuit, Apparatus for freeing. L. H. Darapsky. No. 973,263; Oct. 18; Sp. p. 3870; Gaz. vol. 159; p. 662.
Water-gage. H. C. Burns. No. 946,106; Jan. 11; Sp. p. 2413; Gaz. vol. 150; p. 401.
Water-gage. J. Torok. No. 952,999; Mar. 22; Sp. p. 5183; Gaz. vol. 152; p. 930.
Water-gage. F. Baker. No. 958,072; May 17; Sp. p. 3559; Gaz. vol. 154; p. 599.

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Water-gage. C. W. Johnson and C. M. Rathke. No. 960,944; June 7; Sp. p. 1404; Gaz. vol. 155; p. 237.
Water-gage. W. K. Arnold. No. 965,356; July 26; Sp. p. 5095; Gaz. vol. 156; p. 875.
Water-gage. G. H. Goodwin. No. 967,634; Aug. 16; Sp. p. 3828; Gaz. vol. 157; p. 657.
Water-gage. H. Boushear. No. 969,454; Sept. 6; Sp. p. 632; Gaz. vol. 158; p. 101.
Water-gage. C. L. Dickerson. No. 977,375; Nov. 29; Sp. p. 7267; Gaz. vol. 160; p. 1233.
Water-gage attachment. Z. C. Ferris. No. 966,323; Aug. 2; Sp. p. 997; Gaz. vol. 157; p. 161.
Water-gage glass. N. Zucke. No. 966,289; Aug. 2; Sp. p. 946; Gaz. vol. 157; p. 150.
Water-gage guard. D. Buissono. No. 948,412; Feb. 8; Sp. p. 1335; Gaz. vol. 151; p. 238.
Water-gate. G. E. Kellar. No. 967,524; Aug. 16; Sp. p. 3618; Gaz. vol. 157; p. 621.
Water-glass, Automatic-shut-off. C. F. Moore. No. 952,833; Mar. 22; Sp. p. 4865; Gaz. vol. 152; p. 876.
Water-heater. W. L. Blackwell. No. 945,214; Jan. 4; Sp. p. 428; Gaz. vol. 150; p. 71.
Water-heater. A. E. and A. S. Higley. No. 946,222; Jan. 11; Sp. p. 2660; Gaz. vol. 150; p. 443.
Water-heater. F. J. Randall. No. 947,521; Jan. 25; Sp. p. 5631; Gaz. vol. 150; p. 935.
Water-heater. E. W. Sawtelle. No. 950,516; Mar. 1; Sp. p. 119; Gaz. vol. 152; p. 19.
Water-heater. A. F. Millan. No. 951,215; Mar. 8; Sp. p. 1513; Gaz. vol. 152; p. 273.
Water-heater. O. A. Marquardt. No. 951,444; Mar. 8; Sp. p. 1996; Gaz. vol. 152; p. 347.
Water-heater. W. S. Bullard. No. 951,904; Mar. 15; Sp. p. 2948; Gaz. vol. 152; p. 534.
Water-heater. F. J. Ruppel. No. 952,280; Mar. 15; Sp. p. 3671; Gaz. vol. 152; p. 658.
Water-heater. H. S. Humphrey. No. 952,618; Mar. 22; Sp. p. 4388; Gaz. vol. 152; p. 801.
Water-heater. C. C. Burgener. No. 952,874; Mar. 22; Sp. p. 4939; Gaz. vol. 152; p. 889.
Water-heater. J. W. Hardie. No. 953,690; Apr. 5; Sp. p. 22; Gaz. vol. 153; p. 7.
Water-heater. H. N. Moody. No. 956,989; May 3; Sp. p. 1066; Gaz. vol. 154; p. 167.
Water-heater. H. T. Raser. No. 957,375; May 10; Sp. p. 1896; Gaz. vol. 154; p. 329.
Water-heater. W. T. Hicks. No. 958,499; May 17; Sp. p. 4559; Gaz. vol. 154; p. 747.
Water-heater. T. A. Steller. No. 960,123; May 31; Sp. p. 8020; Gaz. vol. 154; p. 1347.
Water-heater. I. J. O'Malley. No. 960,387; June 7; Sp. p. 304; Gaz. vol. 155; p. 51.
Water-heater. H. S. Humphrey. No. 960,933; June 7; Sp. p. 1382; Gaz. vol. 155; p. 232.
Water-heater. J. R. Armington. No. 962,294; June 21; Sp. p. 4318; Gaz. vol. 155; p. 745.
Water-heater. L. C. Rhea. No. 963,177; July 5; Sp. p. 380; Gaz. vol. 156; p. 54.
Water-heater. W. E. Beilman. No. 963,415; July 5; Sp. p. 911; Gaz. vol. 156; p. 135.
Water-heater. H. W. Donaldson. No. 963,424; July 5; Sp. p. 927; Gaz. vol. 156; p. 138.
Water-heater. O. Fox. No. 965,100; July 19; Sp. p. 4547; Gaz. vol 156; p. 758.
Water-heater. T W. Pitcher. No. 965,536; July 26; Sp. p. 5501; Gaz. vol. 156; p. 937.
Water-heater. D. B. Morison. No. 967,142; Aug. 9; Sp. p. 2826; Gaz. vol. 157; p. 463.
Water-heater. C. J. Karnopp. No. 967,523; Aug. 16; Sp. p. 3615; Gaz. vol. 157; p. 620.
Water-heater. A. W. Brand. No. 967,715; Aug. 16; Sp. p. 3990; Gaz. vol. 157; p. 684.
Water-heater. G. D. Cooper. No. 968,129; Aug. 23; Sp. p. 4877; Gaz. vol. 157; p. 846.
Water-heater. W. L. Blackwell. No. 971,167; Sept. 27; Sp. p. 4324; Gaz. vol. 158; p. 759.
Water-heater. T. J. Radke. No. 972,717; Oct. 11; Sp. p. 2629; Gaz. vol. 159; p. 446.
Water-heater. J. N. Middendorf. No. 973,536; Oct. 25; Sp. p. 4459; Gaz. vol. 159; p. 778.
Water-heater. W. P. Cosper. (Reissue.) No. 13,166; Nov. 8; Sp. p. 2947; Gaz. vol. 160; p. 475.
Water-heater. C. A. Borein. No. 975,824; Nov. 15; Sp. p. 3854; Gaz. vol. 160; p. 650.
Water-heater. H. C. Odenkirk. No. 977,538; Dec. 6; Sp. p. 283; Gaz. vol. 161; p. 41.
Water-heater. I. J. O'Malley. No. 978,196; Dec. 13; Sp. p. 1690; Gaz. vol. 161; p. 297.
Water-heater. B. A. Geurink. No. 980,095; Dec. 27; Sp. p. 5794; Gaz. vol. 161; p. 993.
Water-heater and clothes-boiler. Revolving. A. L. Estes. No. 953,324; Mar. 29; Sp. p. 5897; Gaz. vol. 152; p. 1065.
Water heater and purifier. H. White. No. 958,845; May 24; Sp. p. 5293; Gaz. vol. 154; p. 892.
Water heater and purifier. W. A. Gibson. No. 973,773; Oct. 25; Sp. p. 4948; Gaz. vol. 159; p. 861.
Water-heater, Automatic. A. E. Miller. No. 959,573; May 31; Sp. p. 6819; Gaz. vol. 154; p. 1161.
Water-heater burner. J. Muirhead. No. 977,214; Nov. 29; Sp. p. 6934; Gaz. vol. 160; p. 1178.
Water-heater-controlling apparatus. R. C. Frampton. No. 973,647; Oct. 25; Sp. p. 4698; Gaz. vol. 159; p. 816.
Water-heater, Electric. W. F. Cutler. No. 961,937; June 21; Sp. p. 3531; Gaz. vol. 155; p. 623.
Water-heater, Electric. F. A. Robinson. No. 965,332; July 26; Sp. p. 5041; Gaz. vol. 156; p. 866.
Water-heater, Electric. F. A. Robinson. No. 965,333; July 26; Sp. p. 5044; Gaz. vol. 156; p. 867.
Water-heater, Electric. H. N. Roche. No. 967,058; Aug. 9; Sp. p. 2641; Gaz. vol. 157; p. 434.
Water-heater, Electric circulation. J. I. Ayer. No. 978,808; Dec. 13; Sp. p. 2983; Gaz. vol. 161; p. 505.
Water-heater, Electrical. H. D. Wood, Jr. No. 958,846; May 24; Sp. p. 5296; Gaz. vol. 154; p. 892.
Water-heater, Instantaneous. S. Tache. No. 958,563; May 17; Sp. p. 4682; Gaz. vol. 154; p. 769.
Water-heater, Instantaneous. R. C. Frampton. No. 973,646; Oct. 25; Sp. p. 4697; Gaz. vol. 159; p. 816.
Water-heater or steam-generator. A. Anderson. No. 953,453; Mar. 29; Sp. p. 6190; Gaz. vol. 152; p. 1110.
Water-heater, Portable. O. P. Churchill and M. E. Risk. No. 962,941; June 28; Sp. p. 5668; Gaz. vol. 155; p. 993.
Water-heater, Stovepipe. J. F. and J. F. Busey, Jr. No. 956,934; May 3; Sp. p. 936; Gaz. vol. 154; p. 149.
Water-heaters, Automatic regulator for. E. P. Nole. No. 953,543; Mar. 29; Sp. p. 6383; Gaz. vol. 152; p. 1143.
Water-heating apparatus. W. W. Rich. No. 947,308; Jan. 25; Sp. p. 5117; Gaz. vol. 150; p. 864.
Water-heating apparatus. D. N. Gibson. No. 949,298; Feb. 15; Sp. p. 3179; Gaz. vol. 151; p. 560.
Water-heating apparatus for urns. A. F. Moneuse. No. 965,724; July 26; Sp. p. 5898; Gaz. vol. 156; p. 1002.
Water-jacket stay or support. S. W. Traylor. No. 960,737; June 7; Sp. p. 1009; Gaz. vol. 155; p. 169.
Water-level controller. E. P. Noyes. No. 967,228; Aug. 16; Sp. p. 3001; Gaz. vol. 157; p. 519.
Water-level regulator. N. G. Copley. No. 970,421; Sept. 13; Sp. p. 2704; Gaz. vol. 158; p. 457.
Water-level regulator and indicator. G. Lane. No. 976,741; Nov. 22; Sp. p. 5830; Gaz. vol. 160; p. 987.
Water-meter. W. H. Sitts. No. 950,544; Mar. 1; Sp. p. 170; Gaz. vol. 152; p. 29.
Water-meter. E. E. Gamon. No. 953,199; Mar. 29; Sp. p. 5639; Gaz. vol. 152; p. 1025.
Water-meter. E. E. Gamon. No. 953,200; Mar. 29; Sp. p. 5640; Gaz. vol. 152; p. 1025.
Water-meter. J. H. Connell. No. 955,766; Apr. 19; Sp. p. 4480; Gaz. vol. 153; p. 773.
Water-meter. M. Maffitt and P. H. Williams. No. 956,121; Apr. 26; Sp. p. 5275; Gaz. vol. 153; p. 926.
Water-meter. O. F. Kadow. No. 958,408; May 17; Sp. p. 4381; Gaz. vol. 154; p. 716.
Water-meter. E. E. Gamon. No. 961,116; June 14; Sp. p. 1770; Gaz. vol. 155; p. 321.
Water-meter. H. I. Dilts. No. 966,316; Aug. 2; Sp. p. 987; Gaz. vol. 157; p. 158.
Water-meter. H. I. Dilts. No. 966,317; Aug. 2; Sp. p. 988; Gaz. vol. 157; p. 159.
Water-meter. H. I. Dilts. No. 966,318; Aug. 2; Sp. p. 989; Gaz. vol. 157; p. 159.
Water-meter. H. I. Dilts. No. 966,319; Aug. 2; Sp. p. 991; Gaz. vol. 157; p. 159.
Water-meter. H. I. Dilts. No. 966,388; Aug. 2; Sp. p. 1123; Gaz. vol. 157; p. 181.
Water-meter. J. P. Kelly. No. 969,286; Sept. 6; Sp. p. 286; Gaz. vol. 158; p. 47.
Water-meter. J. B. Koelblen. No. 972,200; Oct. 11; Sp. p. 1502; Gaz. vol. 159; p. 266.
Water-meter. E. E. Gamon. No. 974,256; Nov. 1; Sp. p. 387; Gaz. vol. 160; p. 57.
Water-meter. W. H. Larrabee. No. 979,518; Dec. 27; Sp. p. 4523; Gaz. vol. 161; p. 799.
Water-meter alarm. A. Rioux. No. 975,072; Nov. 8; Sp. p. 2253; Gaz. vol. 160; p. 367.
Water-meter connection. G. B. Bassett. No. 953,505; Mar. 29; Sp. p. 6302; Gaz. vol. 152; p. 1130.
Water-meter, Self-registering. F. W. Hanna. No. 946,128; Jan. 11; Sp. p. 2454; Gaz. vol. 150; p. 409.
Water-meters, Stuffing-box for. E. E. Gamon. No. 954,621; Apr. 12; Sp. p. 1974; Gaz. vol. 153; p. 350.
Water-motor. C. O. Blauel. No. 945,367; Jan. 4; Sp. p. 790; Gaz. vol. 150; p. 121.
Water-motor. A. Bratschie. No. 945,746; Jan. 11; Sp. p. 1646; Gaz. vol. 150; p. 276.
Water-motor. L. L. Dodds. No. 948,501; Feb. 8; Sp. p. 1525; Gaz. vol. 151; p. 269.
Water-motor. H. C. Phillippi. No. 949,715; Feb. 15; Sp. p. 4016; Gaz. vol. 151; p. 699.
Water-motor. H. R. Irwin and H. C. Chambers. No. 951,913; Mar. 15; Sp. p. 2968; Gaz. vol. 152; p. 537.
Water-motor. C. A. Whelan. No. 952,969; Mar. 22; Sp. p. 5126; Gaz. vol. 152; p. 920.
Water-motor. J. H. Hendrickson. No. 954,433; Apr. 12; Sp. p. 1550; Gaz. vol. 153; p. 285.
Water-motor. H. T. Farnsworth. No. 955,148; Apr. 19; Sp. p. 3131; Gaz. vol. 153; p. 562.
Water-motor. G. W. Coffield. No. 955,501; Apr. 19; Sp. p. 3894; Gaz. vol. 153; p. 684.
Water-motor. W. G. Stowell. No. 956,225; Apr. 26; Sp. p. 5518; Gaz. vol. 153; p. 963.

Alphabetical list of inventions—Continued.

Water-motor. H. W. Mezger. No. 958,152; May 17; Sp. p. 3712; Gaz. vol. 154; p. 627.
Water-motor. J. N. Hardy. No. 958,492; May 17; Sp. p. 4549; Gaz. vol. 154; p. 746.
Water-motor. H. T. Farnsworth. No. 959,491; May 31; Sp. p. 6642; Gaz. vol. 154; p. 1132.
Water-motor. J. E. Bell. No. 961,749; June 21; Sp. p. 3114; Gaz. vol. 155; p. 561.
Water-motor. E. R. McCreary. No. 972,010; Oct. 4; Sp. p. 1102; Gaz. vol. 159; p. 184.
Water-motor. N. A. Stamm. No. 973,823; Oct. 25; Sp. p. 5050; Gaz. vol. 159; p. 878.
Water-motor. L. M. Wilber. No. 974,221; Nov. 1; Sp. p. 261; Gaz. vol. 160; p. 44.
Water-motor. H. W. Yost. No. 976,972; Nov. 29; Sp. p. 6406; Gaz. vol. 160; p. 1094.
Water-motor. H. F. Blackwell. No. 977,264; Nov. 29; Sp. p. 7028; Gaz. vol. 160; p. 1195.
Water-motor, Current. H. B. Fenner. No. 948,544; Feb. 8; Sp. p. 1603; Gaz. vol. 151; p. 282.
Water-motor, Hydraulic. L. L. Osborn. No. 962,382; June 21; Sp. p. 4486; Gaz. vol. 155; p. 774.
Water or like motor or pump. E. Courtright. No. 945,701; Jan. 4; Sp. p. 1480; Gaz. vol. 150; p. 231.
Water or other fluid heating apparatus. G. A. Fowler. No. 955,393; Apr. 19; Sp. p. 3679; Gaz. vol. 153; p. 646.
Water or other fluid, Means of regulating, treating, and distributing. D. Cochrane. No. 964,613; July 19; Sp. p. 3461; Gaz. vol. 156; p. 592.
Water or solution from solids, such as slimy ores, pulp, and the like, Means for separating. W. L. Holms, L. M. Green, and J. S. Pattinson. No. 957,775; May 10; Sp. p. 2705; Gaz. vol. 154; p. 464.
Water-pipe. D. Alton. No. 978,349; Dec. 13; Sp. p. 2020; Gaz. vol. 161; p. 352.
Water-power paddle-motor, Endless. A. J. Beelman, Jr. No. 953,455; Mar. 29; Sp. p. 6194; Gaz. vol. 152; p. 1110.
Water-power plant. C. A. Nobis. No. 963,241; July 5; Sp. p. 538; Gaz. vol. 156; p. 76.
Water-power plants, Supply system for. C. F. Clark. No. 970,796; Sept. 20; Sp. p. 3565; Gaz. vol. 158; p. 610.
Water-purifier. M. B. Cresswell. No. 950,439; Feb. 22; Sp. p. 5663; Gaz. vol. 151; p. 982.
Water-purifier. F. Dinghaus. No. 963,529; July 5; Sp. p. 1142; Gaz. vol. 156; p. 173.
Water-purifier and boiler-cleaner. J. A. Ray. No. 968,077; Aug. 23; Sp. p. 4769; Gaz. vol. 157; p. 829.
Water purifier and clarifier. J. E. Angell. No. 961,091; June 14; Sp. p. 1726; Gaz. vol. 155; p. 313.
Water-purifier, Centrifugal. W. K. Richardson. No. 958,770; May 24; Sp. p. 5107; Gaz. vol. 154; p. 863.
Water, Purifying. J. Roche and A. Oliver. No. 952,842; Mar. 22; Sp. p. 4882; Gaz. vol. 152; p. 879.
Water, Purifying. J. E. Angell. No. 965,148; July 26; Sp. p. 4647; Gaz. vol. 156; p. 805.
Water, Purifying and sterilizing. A. Baudry. No. 958,848; May 24; Sp. p. 5303; Gaz. vol. 154; p. 893.
Water-purifying apparatus. J. P. Lajoie. No. 948,785; Feb. 8; Sp. p. 2140; Gaz. vol. 151; p. 364.
Water-purifying apparatus. J. C. W. Greth. No. 973,424; Oct. 18; Sp. p. 4216; Gaz. vol. 159; p. 718.
Water-purifying apparatus, Automatic circuit-controller for. H. B. Hartman. No. 948,648; Feb. 8; Sp. p. 1841; Gaz. vol. 151; p. 317.
Water-purifying apparatus, Control valve mechanism for electrolytic. H. B. Hartman. No. 951,312; Mar. 8; Sp. p. 1728; Gaz. vol. 152; p. 304.
Water-purifying apparatus, Electrolytic. H. B. Hartman. No. 951,313; Mar. 8; Sp. p. 1732; Gaz. vol. 152; p. 305.
Water-purifying compound. S. O. Johnson. No. 966,559; Aug. 9; Sp. p. 1570; Gaz. vol. 157; p. 267.
Water, Purifying or clarifying. W. K. Richardson. No. 958,769; May 24; Sp. p. 5105; Gaz. vol. 154; p. 863.
Water-raising device. J. M. Swanstrom. No. 979,107; Dec. 20; Sp. p. 3669; Gaz. vol. 161; p. 637.
Water regulator and surface blow-off, Automatic. D. M. Maxon. No. 969,294; Sept. 6; Sp. p. 300; Gaz. vol. 158; p. 49.
Water, Removing iron and organic germs from. R. Gans. No. 951,641; Mar. 8; Sp. p. 2391; Gaz. vol. 152; p. 414.
Water-seal trap. J. P. Putnam. No. 978,485; Dec. 13; Sp. p. 2311; Gaz. vol. 161; p. 398.
Water, Softening. R. Gans. No. 960,887; June 7; Sp. p. 1303; Gaz. vol. 155; p. 218.
Water-softening apparatus. H. Russell. No. 958,831; May 24; Sp. p. 5257; Gaz. vol. 154; p. 886.
Water-softening apparatus. H. Russell. No. 958,832; May 24; Sp. p. 5262; Gaz. vol. 154; p. 887.
Water-softening apparatus. K. W. Bartlett. No. 966,071; Aug. 2; Sp. p. 491; Gaz. vol. 157; p. 79.
Water-sprinkler. J. M. Alden. No. 963,199; July 5; Sp. p. 436; Gaz. vol. 156; p. 62.
Water-supply, Automatic device for controlling. J. A. Anderson. No. 948,303; Feb. 8; Sp. p. 1087; Gaz. vol. 151; p. 201.
Water tank, Hot-. J. J. Kelly. No. 953,958; Apr. 5; Sp. p. 536; Gaz. vol. 153; p. 97.
Water tank, Vacuum-wall hot-. G. C. H. McPheeters. No. 970,095; Sept. 13; Sp. p. 2051; Gaz. vol. 158; p. 348.
Water-tanks, Automatic regulating device for. W. L. Brubaker. No. 949,616; Feb. 15; Sp. p. 3834; Gaz. vol. 151; p. 668.
Water-tight coupling. W. J. Donnelley. No. 976,787; Nov. 22; Sp. p. 5951; Gaz. vol. 160; p. 1004.
Water-tight seam. G. H. Hildreth. No. 977,741; Dec. 6; Sp. p. 707; Gaz. vol. 161; p. 110.
Water to windmill-tanks, Device for controlling the supply of. W. B. De Carteret. No. 966,664; Aug. 9; Sp. p. 1770; Gaz. vol. 157; p. 302.
Water, Treating and storing. W. A. Powers. No. 946,463; Jan. 11; Sp. p. 3282; Gaz. vol. 150; p. 527.
Water-tube boiler. W. S. Lycan. No. 945,130; Jan. 4; Sp. p. 247; Gaz. vol. 150; p. 43.
Water-tube boiler. C. Mahlke. No. 956,388; Apr. 26; Sp. p. 5856; Gaz. vol. 153; p. 1018.
Water-tube boiler. S. C. Munoz. No. 962,454; June 28; Sp. p. 4672; Gaz. vol. 155; p. 825.
Water-tube boiler. J. Miyabara. No. 973,541; Oct. 25; Sp. p. 4466; Gaz. vol. 159; p. 780.
Water-wheel. F. Bangerter. No. 948,755; Feb. 8; Sp. p. 2077; Gaz. vol. 151; p. 353.
Water-wheel. B. W. Masterson. No. 952,919; Mar. 22; Sp. p. 5025; Gaz. vol. 152; p. 903.
Water-wheel. W. E. Seelye. No. 955,478; Apr. 19; Sp. p. 3842; Gaz. vol. 153; p. 676.
Water-wheel. R. P. Robinson. No. 957,099; May 3; Sp. p. 1286; Gaz. vol. 154; p. 204.
Water-wheel. F. H. Hayner and D. O. Baer. No. 962,345; June 21; Sp. p. 4424; Gaz. vol. 155; p. 762.
Water-wheel. T. A. Macdonald. No. 967,402; Aug. 16; Sp. p. 3366; Gaz. vol. 157; p. 580.
Water-wheel. Z. C. Ferris. No. 973,419; Oct. 18; Sp. p. 4206; Gaz. vol. 159; p. 716.
Water-wheel. A. Pfau. No. 978,335; Dec. 13; Sp. p. 1994; Gaz. vol. 161; p. 347.
Water-wheel, Current. L. Lemert. No. 951,616; Mar. 8; Sp. p. 2339; Gaz. vol. 152; p. 405.
Water-wheel, Current. G. A. Hesse. No. 965,108; July 19; Sp. p. 4558; Gaz. vol. 156; p. 760.
Water-wheel gates, Apparatus for operating. W. W. White. No. 959,280; May 24; Sp. p. 6200; Gaz. vol. 154; p. 1036.
Water-wheel governor. W. D. White. No. 955,568; Apr. 19; Sp. p. 4024; Gaz. vol. 153; p. 706.
Water-wheel stop. W. D. White. No. 971,095; Sept. 27; Sp. p. 4170; Gaz. vol. 158; p. 736.
Water-wheel, Submerged. W. B. Campbell. No. 948,105; Feb. 1; Sp. p. 680; Gaz. vol. 151; p. 110.
Water-wheels, Gate-controlling mechanism for. W. W. White. No. 955,569; Apr. 19; Sp. p. 4026; Gaz. vol. 153; p. 706.
Waterer, Stock-. J. E. Townsend. No. 972,738; Oct. 11; Sp. p. 2677; Gaz. vol. 159; p. 454.
Waterer, Stock-. B. Wise. No. 977,990; Dec. 6; Sp. p. 1223; Gaz. vol. 161; p. 197.
Watering device for stock, Automatic. H. B. McKinney. No. 946,802; Jan. 18; Sp. p. 4018; Gaz. vol. 150; p. 666.
Watering-device heater, Poultry-. C. H. Felker. No. 946,667; Jan. 18; Sp. p. 3705; Gaz. vol. 150; p. 619.
Watering device, Poultry-. C. H. Felker. No. 946,666; Jan. 18; Sp. p. 3703; Gaz. vol. 150; p. 619.
Watering device, Stock-. W. S. Crum. No. 945,706; Jan. 4; Sp. p. 1494; Gaz. vol. 150; p. 233.
Watering device, Stock-. F. E. Williamson. No. 950,420; Feb. 22; Sp. p. 5567; Gaz. vol. 151; p. 976.
Watering tank, Stock-. B. H. Gedge. No. 974,873; Nov. 8; Sp. p. 1802; Gaz. vol. 160; p. 299.
Watering-trough. B. R. Spencer. No. 947,704; Jan. 25; Sp. p. 5988; Gaz. vol. 150; p. 997.
Watering-trough. T. C. Pereboom. No. 958,528; May 17; Sp. p. 4616; Gaz. vol. 154; p. 758.
Watering-trough. C. J. Van Ostrand. No. 968,613; Aug. 30; Sp. p. 5908; Gaz. vol. 157; p. 1041.
Watering-trough. S. Jeffery. No. 968,769; Aug. 30; Sp. p. 6274; Gaz. vol. 157; p. 1095
Watering-trough. A. C. Michael. No. 970,079; Sept. 13; Sp. p. 2021; Gaz. vol. 158; p. 343.
Watering-trough. B. Hasman, Jr. No. 976,874; Nov. 29; Sp. p. 6143; Gaz. vol. 160; p. 1059.
Watering-trough. A. G. Simmons. No. 977,561; Dec. 6; Sp. p. 339; Gaz. vol. 161; p. 49.
Watering-trough, Automatic. M. D. McDougall. No. 975,554; Nov. 15; Sp. p. 3300; Gaz. vol. 160; p. 560.
Waterproof construction. B. H. Leather. No. 968,573; Aug. 30; Sp. p. 5831; Gaz. vol. 157; p. 1027.
Waterproof fabric. G. Streat. No. 959,178; May 24; Sp. p. 5997; Gaz. vol. 154; p. 1002.
Wave-motor. C. O. Blaucl. No. 947,321; Jan. 25; Sp. p. 5148; Gaz. vol. 150; p. 869.
Wave-motor. S. Skirtun. No. 950,460; Feb. 22; Sp. p. 5630; Gaz. vol. 151; p. 988.
Wave-motor. J. M. Butler. No. 956,796; May 3; Sp. p. 634; Gaz. vol. 154; p. 101.
Wave-motor. E. H. Angell. No. 967,101; Aug. 9; Sp. p. 2726; Gaz. vol. 157; p. 449.
Wave-motor. A. W. Reynolds. No. 967,437; Aug. 16; Sp. p. 3425; Gaz. vol. 157; p. 590.
Wave-motor. E. E. Shinn. No. 969,665; Sept. 6; Sp. p. 1090; Gaz. vol. 158; p. 175.

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Wave-motor. W. L. Raht. No. 969,903; Sept. 13; Sp. p. 1642; Gaz. vol. 158; p. 283.
Wave-motor. N. O. Harmon. No. 970,048; Sept. 13; Sp. p. 1959; Gaz. vol. 158; p. 333.
Wave-motor. T. La Brum. No. 974,282; Nov. 1; Sp. p. 461; Gaz. vol. 160; p. 67.
Wave-motor. F. H. Farmer. No. 974,869; Nov. 8; Sp. p. 1794; Gaz. vol. 160; p. 298.
Wave-motor. W. K. Bowerman. No. 974,948; Nov. 8; Sp. p. 1977; Gaz. vol. 160; p. 326.
Wave-motor. B. Cutler. No. 976,988; Nov. 29; Sp. p. 6438; Gaz. vol. 160; p. 1099.
Wave-motor. T. Nixon. No. 978,628; Dec. 13; Sp. p. 2636; Gaz. vol. 161; p. 449.
Wave or current motor. J. E. Bennett. No. 958,467; May 17; Sp. p. 4502; Gaz. vol. 154; p. 737.
Wave-power. S. B. Goff. No. 959,214; May 24; Sp. p. 6064; Gaz. vol. 154; p. 1014.
Wave-receiving device. F. G. Sargent. No. 959,967; May 31; Sp. p. 7678; Gaz. vol. 154; p. 1294.
Waves, Apparatus for utilizing the movement of the sea-. A. Ravelli. No. 947,846; Feb. 1; Sp. p. 143; Gaz. vol. 151; p. 24.
Wax cake. M. B. Hood. No. 964,422; July 12; Sp. p. 2998; Gaz. vol. 156; p. 494.
Wax, Electrical apparatus for melting sealing-. W. T. von Tillow. No. 945,822; Jan. 11; Sp. p. 1811; Gaz. vol. 150; p. 304.
Wax finish, Liquid. J. D. Bryant. No. 975,394; Nov. 15; Sp. p. 2962; Gaz. vol. 160; p. 503.
Wax melting and applying device, Sealing-. S. C. Matthews. No. 962,375; June 21; Sp. p. 4476; Gaz. vol. 155; p. 772.
Waxing apparatus. I. B. Barrire. No. 967,156; Aug. 16; Sp. p. 2856; Gaz. vol. 157; p. 494.
Waxing device. H. F. Haussmann. No. 946,436; Jan. 11; Sp. p. 3224; Gaz. vol. 150; p. 518.
Weaner. M. Eide. No. 975,680; Nov. 15; Sp. p. 3576; Gaz. vol. 160; p. 602.
Weaner, Calf-. C. B. Wagner, Jr. No. 967,468; Aug. 16; Sp. p. 3484; Gaz. vol. 157; p. 601.
Weaner, Calf-. J. S. Weathers. No. 977,352; Nov. 29; Sp. p. 7205; Gaz. vol. 160; p. 1225.
Weaner, Colt and calf. C. H. Patterson. No. 974,421; Nov. 1; Sp. p. 769; Gaz. vol. 160; p. 116.
Weaner, Calf or colt. E. L. Alvord. No. 962,290; June 21; Sp. p. 4305; Gaz. vol. 155; p. 744.
Weaner, Calf or colt. J. Pivny. No. 973,969; Oct. 25; Sp. p. 5345; Gaz. vol. 159; p. 930.
Weather-boarding gage. J. W. Dougherty. No. 977,715; Dec. 6; Sp. p. 666; Gaz. vol. 161; p. 102.
Weather-strip. J. P. Stahl. No. 954,896; Apr. 12; Sp. p. 2645; Gaz. vol. 153; p. 448.
Weather-strip. V. E. Tischler. No. 956,002; Apr. 26; Sp. p. 5010; Gaz. vol. 153; p. 885.
Weather-strip. C. H. Faulkner. No. 957,549; May 10; Sp. p. 2247; Gaz. vol. 154; p. 389.
Weather-strip. C. R. Ingham. No. 960,331; June 7; Sp. p. 180; Gaz. vol. 155; p. 33.
Weather-strip. O. W. Hooppaw. No. 962,351; June 21; Sp. p. 4434; Gaz. vol. 155; p. 764.
Weather-strip. J. Kammerer. No. 968,163; Aug. 23; Sp. p. 4972; Gaz. vol. 157; p. 858.
Weather-strip. G. Langefeld. No. 968,775; Aug. 30; Sp. p. 6285; Gaz. vol. 157; p. 1097.
Weather-strip. J. H. Foote. No. 971,001; Sept. 20; Sp. p. 3952; Gaz. vol. 158; p. 676.
Weather-strip. S. F. Haskell. No. 971,374; Sept. 27; Sp. p. 4731; Gaz. vol. 158; p. 827.
Weather-strip. C. A. Penny. No. 974,706; Nov. 1; Sp. p. 1433; Gaz. vol. 160; p. 220.
Weather-strip. J. Dumont. No. 975,337; Nov. 8; Sp. p. 2828; Gaz. vol. 160; p. 458.
Weather-strip. F. A. Yeager. No. 979,631; Dec. 27; Sp. p. 4787; Gaz. vol. 161; p. 840.
Weather-strip, Adjustable. C. Anderson. No. 961,383; June 14; Sp. p. 2349; Gaz. vol. 155; p. 415.
Weather-strip, Automatic or self-adjustable. F. L. Barnick. No. 946,482; Jan. 11; Sp. p. 3323; Gaz. vol. 150; p. 534.
Weather-strip, Door. C. W. Bell. No. 951,793; Mar. 15; Sp. p. 2716; Gaz. vol. 152; p. 496.
Weather-strip for doors. H. L. Davis. No. 974,242; Nov. 1; Sp. p. 361; Gaz. vol. 160; p. 52.
Weather-strip, Metal. P. L. Hedberg. No. 963,023; June 28; Sp. p. 5825; Gaz. vol. 155; p. 1020.
Weather-strip, Metallic. A. E. Gould. No. 956,702; May 3; Sp. p. 441; Gaz. vol. 154; p. 70.
Weaving fabrics. J. C. Brooks. No. 951,359; Mar. 8; Sp. p. 1827; Gaz. vol. 152; p. 320.
Weaving, Harness for cross-. W. B. Dixon. No. 966,668; Aug. 9; Sp. p. 1776; Gaz. vol. 157; p. 303.
Weaving machine, Slat-. E. Walton. No. 968,099; Aug. 23; Sp. p. 4812; Gaz. vol. 157; p. 836.
Weaving mechanism. W. H. Drury. No. 972,349; Oct. 11; Sp. p. 1806; Gaz. vol. 159; p. 318.
Weaving, Pattern mechanism for. G. Beaumont. No. 956,510; May 3; Sp. p. 9; Gaz. vol. 154; p. 4.
Weaving pile fabrics. J. Buckler. No. 959,306; May 24; Sp. p. 6247; Gaz. vol. 154; p. 1045.
Weaving tubular fabrics. C. Alvord. No. 966,416; Aug. 9; Sp. p. 1187; Gaz. vol. 157; p. 216.
Web feeding and cutting attachment. M. H. Mann, W. M. and W. M. Oungst. No. 954,817; Apr. 12; Sp. p. 2454; Gaz. vol. 153; p. 419.
Web-feeding mechanism. M. H. Mann. No. 954,751; Apr. 12; Sp. p. 2289; Gaz. vol. 153; p. 397.
Web-feeding mechanism. C. B. Stilwell. No. 964,130; July 12; Sp. p. 2430; Gaz. vol. 156; p. 398.
Web-guiding device, Automatic. W. I. Lewis. No. 973,945; Oct. 25; Sp. p. 5303; Gaz. vol. 159; p. 921.
Web-manipulating mechanism. J. P. Knapp and G. E. Pancoast. No. 948,548; Feb. 8; Sp. p. 1613; Gaz. vol. 151; p. 284.
Web-press, Rotary. C. N. Smith. No. 974,607; Nov. 1; Sp. p. 1203; Gaz. vol. 160; p. 185.
Web-roll-tension device. G. F. Read. No. 971,073; Sept. 27; Sp. p. 4130; Gaz. vol. 158; p. 729.
Wedge. J. L. Thomas. No. 961,325; June 14; Sp. p. 2246; Gaz. vol. 155; p. 396.
Wedge, Attaching-. J. L. Clarke. No. 954,669; Apr. 12; Sp. p. 2096; Gaz. vol. 153; p. 367.
Wedge-cutting machine. H. Lechtenberg. No. 951,320; Mar. 8; Sp. p. 1751; Gaz. vol. 152; p. 308.
Wedge-expanding device. F. C. Krüger. No. 956,712; May 3; Sp. p. 461; Gaz. vol. 154; p. 74.
Wedge, Handle-fastening. T. Hooker. No. 959,862; May 31; Sp. p. 7430; Gaz. vol. 154; p. 1257.
Weed and grass destroyer. H. B. Koressel. No. 968,772; Aug. 30; Sp. p. 6278; Gaz. vol. 157; p. 1096.
Weed-burner. P. G. Davidson. No. 947,297; Jan. 25; Sp. p. 5086; Gaz. vol. 150; p. 859.
Weed-burning appliance. G. L. O'Neale. No. 955,425; Apr. 19; Sp. p. 3738; Gaz. vol. 153; p. 656.
Weed-cutter. M. Pruyn. No. 949,597; Feb. 15; Sp. p. 3794; Gaz. vol. 151; p. 660.
Weed-cutter. E. Laas. No. 950,624; Mar. 1; Sp. p. 342; Gaz. vol. 152; p. 56.
Weed-destroyer. P. Hall. No. 947,906; Feb. 1; Sp. p. 269; Gaz. vol. 151; p. 44.
Weed-destroyer. H. Thoeni. No. 970,666; Sept. 20; Sp. p. 3263; Gaz. vol. 158; p. 563.
Weed-eradicator. H. M. Johnson. No. 964,266; July 12; Sp. p. 2691; Gaz. vol. 156; p. 444.
Weed-hook. C. P. Thompson. No. 956,653; May 3; Sp. p. 320; Gaz. vol. 154; p. 52.
Weed-hook, Adjustable spring. A. M. Moe. No. 947,119; Jan. 18; Sp. p. 4670; Gaz. vol. 150; p. 771.
Weed-hook, Sectional. H. E. Woodin. No. 958,055; May 17; Sp. p. 3470; Gaz. vol. 154; p. 594.
Weed, stubble, and seed burning machine. L. L. Goheen. No. 978,875; Dec. 20; Sp. p. 3122; Gaz. vol. 161; p. 554.
Weeds, Destroying. W. Hoskins. No. 965,905; Aug. 2; Sp. p. 126; Gaz. vol. 157; p. 21.
Weeds, Destroying. W. Hoskins. No. 970,375; Sept. 13; Sp. p. 2626; Gaz. vol. 158; p. 442.
Weeder. C. F. Billau. No. 952,697; Mar. 22; Sp. p. 4560; Gaz. vol. 152; p. 829.
Weeder. H. H. Qua. No. 959,604; May 31; Sp. p. 6878; Gaz. vol. 154; p. 1170.
Weeder. S. E. Ball. No. 960,247; June 7; Sp. p. 9; Gaz. vol. 155; p. 4.
Weeder. R. M. Chambers. No. 962,940; June 28; Sp. p. 5666; Gaz. vol. 155; p. 992.
Weeder. L. C. Pond. No. 972,404; Oct. 11; Sp. p. 1922; Gaz. vol. 159; p. 338.
Weeder, Track-. D. A. Chisholm. No. 972,058; Oct. 4; Sp. p. 1192; Gaz. vol. 159; p. 201.
Weeding and pruning implement. J. H. Blake. No. 946,322; Jan. 11; Sp. p. 2888; Gaz. vol. 150; p. 479.
Weeding-machine. H. H. Goe. No. 970,212; Sept. 13; Sp. p. 2308; Gaz. vol. 158; p. 388.
Weeding-machine. J. H. Atkins. No. 979,407; Dec. 27; Sp. p. 4298; Gaz. vol. 161; p. 762.
Weevil destroyer, Boll-. R. P. Johnson and E. W. Ramsey. No. 951,441; Mar. 8; Sp. p. 1991; Gaz. vol. 152; p. 346.
Weevil exterminator, Boll-. P. E. Hebert. No. 954,629; Apr. 12; Sp. p. 1999; Gaz. vol. 153; p. 355.
Weevil exterminator, Boll-. P. J. Coco. No. 974,751; Nov. 1; Sp. p. 1526; Gaz. vol. 160; p. 234.
Weevils, Machine for destroying cotton-boll. L. M. Prudhomme. No. 946,561; Jan. 18; Sp. p. 3481; Gaz. vol. 150; p. 585.
Weft-fork mechanism. J. Northrop. No. 973,126; Oct. 18; Sp. p. 3548; Gaz. vol. 159; p. 614.
Weft-fork spring. R. Smith. No. 975,647; Nov. 15; Sp. p. 3487; Gaz. vol. 160; p. 591.
Weigher, Fruit-. G. D. Parker. No. 947,255; Jan. 25; Sp. p. 4964; Gaz. vol. 150; p. 844.
Weighing and bagging machine. G. T. Wade. No. 975,005; Nov. 8; Sp. p. 2120; Gaz. vol. 160; p. 345.
Weighing and bagging machine, Automatic. J. B. Williams. No. 946,184; Jan. 11; Sp. p. 2587; Gaz. vol. 150; p. 429.
Weighing and filling machine. H. Dunkerly. No. 977,378; Nov. 29; Sp. p. 7271; Gaz. vol. 160; p. 1234.
Weighing apparatus, Automatic. A. Sonander. No. 952,587; Mar. 22; Sp. p. 4315; Gaz. vol. 152; p. 790.
Weighing apparatus, Automatic. C. R. Hutchinson. No. 977,014; Nov. 29; Sp. p. 6499; Gaz. vol. 160; p. 1108.

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Weighing apparatus, Car-. A. W. Epright. No. 956,323; Apr. 26; Sp. p. 5726; Gaz. vol. 153; p. 996.
Weighing apparatus for portable cars. J. Malensheck and F. Kachewski. No. 977,891; Dec. 6; Sp. p. 1024; Gaz. vol. 161; p. 162.
Weighing apparatus, Liquid-. W. Leinert. (Reissue.) No. 13,074; Jan. 4; Sp. p. 1607; Gaz. vol. 150; p. 249.
Weighing, bagging, and packing apparatus. H. Richardson. No. 962,918; June 28; Sp. p. 5627; Gaz. vol. 155; p. 985.
Weighing device. E. S. Kneeland. No. 967,935; Aug. 23; Sp. p. 4438; Gaz. vol. 157; p. 781.
Weighing device, Infant-. K. B. Hayden. No. 945,530; Jan. 4; Sp. p. 1130; Gaz. vol. 150; p. 174.
Weighing device, Spring-scale. H. B. Puffenberger. No. 958,172; May 17; Sp. p. 3759; Gaz. vol. 154; p. 635.
Weighing liquids in storage-tanks, Apparatus for. T. C. J. Hillmer. No. 967,378; Aug. 16; Sp. p. 3296; Gaz. vol. 157; p. 571.
Weighing-machine. J. T. F. Conti. No. 950,528; Mar. 1; Sp. p. 144; Gaz. vol. 152; p. 23.
Weighing-machine. G. H. Denison. No. 951,777; Mar. 8; Sp. p. 2663; Gaz. vol. 152; p. 460.
Weighing-machine. F. Verplast. No. 952,157; Mar. 15; Sp. p. 3426; Gaz. vol. 152; p. 616.
Weighing-machine. H. Richardson. No. 962,919; June 28; Sp. p. 5631; Gaz. vol. 155; p. 986.
Weighing-machine. J. W. Allison. No. 967,299; Aug. 16; Sp. p. 3139; Gaz. vol. 157; p. 543.
Weighing-machine. J. M. Chappel. No. 970,465; Sept. 20; Sp. p. 2815; Gaz. vol. 158; p. 493.
Weighing-machine. H. A. Benson. No. 973,909; Oct. 25; Sp. p. 5240; Gaz. vol. 159; p. 908.
Weighing-machine. H. Richardson. No. 975,158; Nov. 8; Sp. p. 2442; Gaz. vol. 160; p. 397.
Weighing-machine. P. J. A. Stockmann. No. 976,228; Nov. 22; Sp. p. 4734; Gaz. vol. 160; p. 812.
Weighing-machine, Automatic. P. Edtbauer. No. 945,767; Jan. 11; Sp. p. 1690; Gaz. vol. 150; p. 284.
Weighing-machine, Automatic. A. J. Ball. No. 947,986; Feb. 1; Sp. p. 432; Gaz. vol. 151; p. 69.
Weighing-machine, Automatic. G. Hoepner. No. 956,853; May 3; Sp. p. 772; Gaz. vol. 154; p. 122.
Weighing-machine, Automatic. H. Richardson. No. 960,108; May 31; Sp. p. 7987; Gaz. vol. 154; p. 1342.
Weighing-machine, Automatic. A. Sonander. No. 965,959; Aug. 2; Sp. p. 231; Gaz. vol. 157; p. 39.
Weighing-machine, Automatic. S. Ciarkowski. No. 967,868; Aug. 16; Sp. p. 4293; Gaz. vol. 157; p. 735.
Weighing-machine, Coin-controlled. G. W. Bowers. No. 979,372; Dec. 20; Sp. p. 4216; Gaz. vol. 161; p. 727.
Weighing machine, Tack-. W. O. Taylor. No. 946,171; Jan. 11; Sp. p. 2559; Gaz. vol. 150; p. 426.
Weighing-machines, Compensator for. S. G. Murray. No. 963,623; July 5; Sp. p. 1325; Gaz. vol. 156; p. 205.
Weighing-machines, Electrical controlling mechanism for. H. Richardson. No. 955,693; Apr. 19; Sp. p. 4329; Gaz. vol. 153; p. 749.
Weighing machines, Receptacle for liquid-. H. W. Meyer. No. 956,775; May 3; Sp. p. 591; Gaz. vol. 154; p. 94.
Weighing mechanism for grocers' bins. A. H. Thiele. No. 968,610; Aug. 30; Sp. p. 5902; Gaz. vol. 157; p. 1040.
Weighing mechanism for traveling cranes. A. H. McDougall. No. 961,888; June 21; Sp. p. 3434; Gaz. vol. 155; p. 607.
Weighing-scoop. D. J. Clupka. No. 956,626; May 3; Sp. p. 256; Gaz. vol. 154; p. 43.
Weight-compensator for windows, doors, and the like. W. C. Stephen. No. 965,763; July 26; Sp. p. 5976; Gaz. vol. 156; p. 1015.
Weight, Dress-. E. J. Brooks. No. 970,175; Sept. 13; Sp. p. 2202; Gaz. vol. 158; p. 375.
Weight-hanger, Automatic. G. Reddish. No. 962,721; June 28; Sp. p. 5253; Gaz. vol. 155; p. 917.
Weight machine, Electro-automatic net-. C. L. Bond. No. 966,885; Aug. 9; Sp. p. 2284; Gaz. vol. 157; p. 375.
Weight-motor. J. A. Wilson. No. 961,279; June 14; Sp. p. 2119; Gaz. vol. 155; p. 379.
Weight, Sash-. E. A. Custer. No. 973,176; Oct. 18; Sp. p. 3692; Gaz. vol. 159; p. 632.
Weight, Window-. F. L. Maupin. No. 972,887; Oct. 18; Sp. p. 3020; Gaz. vol. 159; p. 532.
Weir and the like. F. Schnapp. No. 979,574; Dec. 27; Sp. p. 4665; Gaz. vol. 161; p. 819.
Weir, Prorating-. D. A. Callway. No. 947,325; Jan. 25; Sp. p. 5157; Gaz. vol. 150; p. 870.
Weirs, &c., Automatic valve or gate for. H. Büchler. No. 972,992; Oct. 18; Sp. p. 3273; Gaz. vol. 159; p. 570.
Welded fabric. C. Swinscoe. No. 949,668; Feb. 15; Sp. p. 3919; Gaz. vol. 151; p. 683.
Welding and repairing, Electric. H. L. J. Siemund. No. 967,578; Aug. 16; Sp. p. 3719; Gaz. vol. 157; p. 640.
Welding and repairing, Electric. H. L. J. Siemund. No. 967,579; Aug. 16; Sp. p. 3722; Gaz. vol. 157; p. 640.
Welding apparatus. E. G. Budd. No. 948,965; Feb. 8; Sp. p. 2484; Gaz. vol. 151; p. 423.
Welding apparatus, Electric. A. E. Buchenberg. No. 966,382; Aug. 2; Sp. p. 1110; Gaz. vol. 157; p. 179.
Welding, brazing, or soldering, Electric. O. Kjellberg. No. 948,764; Feb. 8; Sp. p. 2102; Gaz. vol. 151; p. 357.
Welding-burner. A. B. Dräger. No. 971,430; Sept. 27; Sp. p. 4826; Gaz. vol. 158; p. 844.
Welding composition. H. L. J. Siemund. No. 967,580; Aug. 16; Sp. p. 3725; Gaz. vol. 157; p. 641.
Welding, cutting, or soldering metals, Autogenous. B. Hoffmann. No. 972,079; Oct. 4; Sp. p. 1231; Gaz. vol. 159; p. 209.
Welding, Electric. M. Lachman. No. 945,555; Jan. 4; Sp. p. 1190; Gaz. vol. 150; p. 183.
Welding, Electric. J. F. Craven. No. 977,711; Dec. 6; Sp. p. 658; Gaz. vol. 161; p. 101.
Welding, Electric. L. S. Lachman. No. 979,970; Dec. 27; Sp. p. 5511; Gaz. vol. 161; p. 952.
Welding-machine. J. H. Taylor. No. 949,860; Feb. 22; Sp. p. 4378; Gaz. vol. 151; p. 784.
Welding-machine clamp, Electric-. G. E. Barstow. No. 953,579; Mar. 29; Sp. p. 6464; Gaz. vol. 152; p. 1155.
Welding-machine, Electric. A. E. Buchenberg. No. 959,305; May 24; Sp. p. 6245; Gaz. vol. 154; p. 1045.
Welding-machine, Electric. S. Z. de Ferranti. No. 972,838; Oct. 18; Sp. p. 2882; Gaz. vol. 159; p. 513.
Welding machine, Electric chain-. C. L. Hoff. No. 978,160; Dec. 13; Sp. p. 1609; Gaz. vol. 161; p. 286.
Welding machine, Electrical spot-. W. C. Winfield. No. 978,418; Dec. 13; Sp. p. 2166; Gaz. vol. 161; p. 376.
Welding metallic filaments to lead-wires. K. Farkas. No. 975,845; Nov. 15; Sp. p. 3893; Gaz. vol. 160; p. 657.
Welding of sheet metal, Electrical. E. Thomson. No. 973,586; Oct. 25; Sp. p. 4556; Gaz. vol. 159; p. 795.
Welding purposes, Transportable clamping apparatus for. H. Goldschmidt and F. Lange. No. 964,640; July 19; Sp. p. 3514; Gaz. vol. 156; p. 601.
Welding the meeting edges of metallic articles, Apparatus for. F. C. Sanford and A. E. Brion. No. 950,626; Mar. 1; Sp. p. 347; Gaz. vol. 152; p. 57.
Welding thin tubing. H. Lemp. No. 956,984; May 3; Sp. p. 1059; Gaz. vol. 154; p. 166.
Welding-tool. L. Wolf. No. 952,089; Mar. 15; Sp. p. 3293; Gaz. vol. 152; p. 593.
Well adjuster, Oil-. L. C. Moore. No. 968,181; Aug. 23; Sp. p. 5017; Gaz. vol. 157; p. 865.
Well-boring apparatus. A. A. Steel. No. 947,862; Feb. 1; Sp. p. 177; Gaz. vol. 151; p. 30.
Well-boring box and pin, Rotary. M. H. Whittier. No. 964,353; July 12; Sp. p. 2865; Gaz. vol. 156; p. 473.
Well-boring machine. P. A. Bouchet. No. 970,880; Sept. 20; Sp. p. 3726; Gaz. vol. 158; p. 637.
Well-boring machine. S. H. Coleman. No. 978,699; Dec. 13; Sp. p. 2768; Gaz. vol. 161; p. 472.
Well-casing. P. Hardy. No. 965,181; July 26; Sp. p. 4710; Gaz. vol. 156; p. 815.
Well-casing-repairing tool. J. C. Mettler. No. 958,517; May 17; Sp. p. 4598; Gaz. vol. 154; p. 754.
Well-casings, Shoe-guide for. A. C. Graham. No. 970,812; Sept. 20; Sp. p. 3608; Gaz. vol. 158; p. 615.
Well-cover. B. D. Hunting. No. 948,329; Feb. 8; Sp. p. 1143; Gaz. vol. 151; p. 210.
Well-digging apparatus. M. Latta. No. 955,813; Apr. 19; Sp. p. 4570; Gaz. vol. 153; p. 789.
Well-drill machine. R. Anthony. No. 945,437; Jan. 4; Sp. p. 929; Gaz. vol. 150; p. 145.
Well-drilling apparatus. L. Schultz. No. 963,657; July 5; Sp. p. 1388; Gaz. vol. 156; p. 216.
Well-drilling derrick. W. D. Deschamp and G. C. Jones. No. 979,133; Dec. 20; Sp. p. 3742; Gaz. vol. 161; p. 648.
Well-drilling device. J. S. Stewart. No. 974,305; Nov. 1; Sp. p. 509; Gaz. vol. 160; p. 75.
Well-drilling machine. G. D. Loomis. No. 948,425; Feb. 8; Sp. p. 1364; Gaz. vol. 151; p. 243.
Well-drilling machine. W. C. Stevens. No. 955,612; Apr. 19; Sp. p. 4142; Gaz. vol. 153; p. 721.
Well-drilling machine. C. H. Waterman. No. 960,459; June 7; Sp. p. 435; Gaz. vol. 155; p. 74.
Well-drilling machine. W. D. Deschamp and G. C. Jones. No. 969,044; Aug. 30; Sp. p. 6812; Gaz. vol. 157; p. 1187.
Well-drilling-machine attachment. G. Hombarg. No. 979,954; Dec. 27; Sp. p. 5484; Gaz. vol. 161; p. 948.
Well-drilling machinery, Crank-pin connection for. J. F. Keith. No. 971,897; Oct. 4; Sp. p. 836; Gaz. vol. 159; p. 143.
Well heater, Oil-. W. E. Gardner and G. A. Israelson. No. 945,321; Jan. 4; Sp. p. 689; Gaz. vol. 150; p. 107.
Well-hook. A. Soss. No. 974,533; Nov. 1; Sp. p. 1060; Gaz. vol. 160; p. 158.
Well mechanism. M. E. Layne. No. 957,974; May 17; Sp. p. 3201; Gaz. vol. 154; p. 564.
Well-packer. W. Hemme. No. 976,737; Nov. 22; Sp. p. 5820; Gaz. vol. 160; p. 986.
Well pick-up, Oil-. H. A. Sills. No. 980,018; Dec. 27; Sp. p. 5605; Gaz. vol. 161; p. 696.
Well-point, Drive. T. L. Decker. No. 945,490; Jan. 4; Sp. p. 1054; Gaz. vol. 150; p. 162.
Well riggings, Derrick and masts for oil-. D. B. Campbell. No. 947,034; Jan. 18; Sp. p. 4521; Gaz. vol. 150; p. 745.
Well-rod lifter. C. J. Atleson. No. 945,902; Jan. 11; Sp. p. 2004; Gaz. vol. 150; p. 332.
Well-screen. H. M. Dahl. No. 951,416; Mar. 8; Sp. p. 1951; Gaz. vol. 152; p. 338.

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Well-screen. S. N. Hall. No. 956,080; Apr. 26; Sp. p. 5183; Gaz. vol. 153; p. 913.
Well-screen. W. Harmon. No. 963,549; July 5; Sp. p. 1175; Gaz. vol. 156; p. 180.
Well-screen. H. R. Decker. No. 975,333; Nov. 8; Sp. p. 2823; Gaz. vol. 160; p. 457.
Well-screen. H. R. Decker and R. W. Houk. No. 975,334; Nov. 8; Sp. p. 2824; Gaz. vol. 160; p. 457.
Well-screen. H. R. Decker. No. 979,748; Dec. 27; Sp. p. 5050; Gaz. vol. 161; p. 879.
Well-sinking apparatus. J. T. Rea. No. 952,636; Mar. 22; Sp. p. 4436; Gaz. vol. 152; p. 808.
Well strainer, Driven-. C. G. Smith. No. 971,156; Sept. 27; Sp. p. 4289; Gaz. vol. 158; p. 755.
Well strainer, Oil and water. H. R. Decker. No. 958,100; May 17; Sp. p. 3611; Gaz. vol. 154; p. 608.
Well-tools, &c., Joint for. C. M. Heeter. No. 959,341; May 24; Sp. p. 6323; Gaz. vol. 154; p. 1057.
Well-tube holder. L. L. Preston. No. 957,091; May 3; Sp. p. 1274; Gaz. vol. 154; p. 202.
Well-tube lowering and raising tool. P. Hardy. No. 965,182; July 26; Sp. p. 4710; Gaz. vol. 156; p. 815.
Well-tubes, Unscrewing mechanism for. H. G. Johnston. No. 959,351; May 24; Sp. p. 6341; Gaz. vol. 154; p. 1060.
Well-tubing, Rotary for. S. N. Hall. No. 956,081; Apr. 26; Sp. p. 5184; Gaz. vol. 153; p. 913.
Wells, Apparatus for forcing fluids from. W. C. Holliday. No. 971,612; Oct. 4; Sp. p. 224; Gaz. vol. 159; p. 40.
Wells, Bailer for oil and like. L. C. Sands. No. 951,408; Mar. 8; Sp. p. 1936; Gaz. vol. 152; p. 336.
Wells, Bailing-bucket for oil-. D. B. Whitehill. No. 952,393; Mar. 15; Sp. p. 3884; Gaz. vol. 152; p. 695.
Wells, Cementing. A. S. Cooper. No. 978,359; Dec. 13; Sp. p. 2036; Gaz. vol. 161; p. 355.
Wells, Cleaning oil-. F. A. Flanegin. No. 949,567; Feb. 15; Sp. p. 3749; Gaz. vol. 151; p. 651.
Wells, Drilling and cementing. W. W. Pedder. No. 975,065; Nov. 8; Sp. p. 2238; Gaz. vol. 160; p. 365.
Wells, Electric heater for oil-. O. B. Linquest. No. 957,785; May 10; Sp. p. 2732; Gaz. vol. 154; p. 468.
Wells, Electric heater for oil-. J. E. Williamson. No. 972,308; Oct. 11; Sp. p. 1734; Gaz. vol. 159; p. 304.
Wells, Gas-separator for oil-. L. W. Brown. No. 968,534; Aug. 30; Sp. p. 5742; Gaz. vol. 157; p. 1012.
Wells, Method and apparatus for cleaning oil-. J. Illy. No. 968,851; Aug. 30; Sp. p. 6430; Gaz. vol. 157; p. 1121.
Wells, Tile-setter for. A. H. Klucking. No. 971,508; Sept. 27; Sp. p. 4969; Gaz. vol. 158; p. 870.
Wells, Treating oil-. A. P. Elten. No. 956,058; Apr. 26; Sp. p. 5133; Gaz. vol. 153; p. 905.
Wells, Working-barrel for oil-. W. H. Walker and W. H. McDevitt. No. 955,024; Apr. 12; Sp. p. 2902; Gaz. vol. 153; p. 491.
Welt-attaching apparatus. G. Goddu. No. 970,702; Sept. 20; Sp. p. 3346; Gaz. vol. 158; p. 575.
Welt-beaters, Work-support for. J. J. Doidge. No. 975,841; Nov. 15; Sp. p. 3886; Gaz. vol. 160; p. 656.
Welt-beveling machine. W. B. Keighley. No. 959,223; May 24; Sp. p. 6086; Gaz. vol. 154; p. 1017.
Welt grooving and beveling machine. E. E. Winkley. No. 977,496; Dec. 6; Sp. p. 148; Gaz. vol. 161; p. 26.
Welt laying and attaching machine. G. T. McLeod. No. 957,987; May 17; Sp. p. 3234; Gaz. vol. 154; p. 568.
Welt-preparing machine. C. P. Stanbon. No. 966,484; Aug. 9; Sp. p. 1360; Gaz. vol. 157; p. 241.
Welt-reinforcing machine. J. B. Hadaway. No. 971,674; Oct. 4; Sp. p. 344; Gaz. vol. 159; p. 60.
Welt-slitting machine. J. Busfield. No. 977,851; Dec. 6; Sp. p. 935; Gaz. vol. 161; p. 148.
Welts, Machine for operating on. J. B. Hadaway. No. 962,138; June 21; Sp. p. 3987; Gaz. vol. 155; p. 692.
Welts, Machine for operating upon. J. B. Hadaway. No. 963,708; July 5; Sp. p. 1494; Gaz. vol. 156; p. 233.
Wheat-heater. J. G. Hagmann. No. 945,089; Jan. 4; Sp. p. 176; Gaz. vol. 150; p. 29.
Wheat, Machine for separating garlic from. J. W. McGehee. No. 979,186; Dec. 20; Sp. p. 3852; Gaz. vol. 161; p. 666.
Wheel: *See* Abrading-wheel; Auto-wheel; Autocar-wheel; Automobile-wheel; Automobile steering-wheel; Automobile wind-wheel; Balance-wheel; Ball-bearing wheel; Band-saw wheel; Buffing or polishing wheel; Bull-wheel; Car-wheel; Car and brake wheel; Car safety-wheel; Caster-wheel; Current-wheel; Cushion-wheel; Cushion-tire wheel; Cutting-wheel; Drive-wheel; Drive gear-wheel; Elastic wheel; Elevator-wheel; Equalizing-wheel; Fifth-wheel; Fly-wheel; Follower-wheel; Gapped wheel; Gear-wheel; Grinding-wheel; Hill-climbing wheel; Metal wheel; Metallic wheel; Motor-wheel; Mower-wheel; Paddle-wheel; Polishing-wheel; Polishing or buffing wheel; Printing-wheel; Propeller-wheel; Reducing-wheel; Removable-rim wheel; Resilient wheel; Rim-bearing wheel; Roller-bearing wheel; Sand-wheel; Self-cushioning wheel; Spare wheel; Spring-wheel; Sprocket-wheel; Steering-wheel; Supplemental wheel; Timepiece balance-wheel; Traction-wheel; Trolley-wheel; Vehicle-wheel; Vehicle spring-wheel; Vehicle steering-wheel; Water-wheel.
Wheel. E. Bozarth. No. 945,688; Jan. 4; Sp. p. 1455; Gaz. vol. 150; p. 227.
Wheel. T. H. Walbridge. No. 945,824; Jan. 11; Sp. p. 1818; Gaz. vol. 150; p. 305.
Wheel. H. S. Saylor. No. 946,617; Jan. 18; Sp. p. 3592; Gaz. vol. 150; p. 604.
Wheel. L. A. Caswell. No. 947,215; Jan. 18; Sp. p. 4865; Gaz. vol. 150; p. 802.
Wheel. T. Berntson. No. 948,408; Feb. 8; Sp. p. 1327; Gaz. vol. 151; p. 237.
Wheel. R. R. Sandham. No. 948,978; Feb. 8; Sp. p. 2518; Gaz. vol. 151; p. 428.
Wheel. M. Lachman. No. 948,997; Feb. 15; Sp. p. 2563; Gaz. vol. 151; p. 461.
Wheel. M. Lachman. No. 948,998; Feb. 15; Sp. p. 2564; Gaz. vol. 151; p. 461.
Wheel. J. H. Lau. No. 951,687; Mar. 8; Sp. p. 2477; Gaz. vol. 152; p. 429.
Wheel. H. Mayer. No. 952,012; Mar. 15; Sp. p. 3159; Gaz. vol. 152; p. 568.
Wheel. J. H. Story and F. C. Winkel. No. 953,645; Mar. 29; Sp. p. 6591; Gaz. vol. 152; p. 1177.
Wheel. C. W. Price. No. 954,048; Apr. 5; Sp. p. 733; Gaz. vol. 153; p. 128.
Wheel. E. G. Murtaugh. No. 954,124; Apr. 5; Sp. p. 885; Gaz. vol. 153; p. 154.
Wheel. J. L. Jackson. No. 959,058; May 24; Sp. p. 5728; Gaz. vol. 154; p. 962.
Wheel. M. J. Clark. No. 964,215; July 12; Sp. p. 2584; Gaz. vol. 156; p. 426.
Wheel. S. Bagnell. No. 965,681; July 26; Sp. p. 5812; Gaz. vol. 156; p. 987.
Wheel. W. W. Neighbour. No. 968,392; Aug. 23; Sp. p. 5441; Gaz. vol. 157; p. 938.
Wheel. E. E. Thomas. No. 969,673; Sept. 6; Sp. p. 1103; Gaz. vol. 158; p. 178.
Wheel. J. C. Lighthouse. No. 969,886; Sept. 13; Sp. p. 1607; Gaz. vol. 158; p. 277.
Wheel. J. C. Lighthouse. No. 969,887; Sept. 13; Sp. p. 1609; Gaz. vol. 158; p. 277.
Wheel. W. L. Dodd. No. 970,476; Sept. 20; Sp. p. 2844; Gaz. vol. 158; p. 497.
Wheel. K. K. Strube. No. 970,569; Sept. 20; Sp. p. 3040; Gaz. vol. 158; p. 529.
Wheel. R. D. Moon. No. 971,463; Sept. 27; Sp. p. 4881; Gaz. vol. 158; p. 855.
Wheel. L. K. Thorspeck. No. 972,485; Oct. 11; Sp. p. 2095; Gaz. vol. 159; p. 365.
Wheel. G. H. Langton. No. 973,054; Oct. 18; Sp. p. 3407; Gaz. vol. 159; p. 590.
Wheel. C. Carpenter. No. 973,916; Oct. 25; Sp. p. 5253; Gaz. vol. 159; p. 911.
Wheel. H. E. Walker. No. 974,320; Nov. 1; Sp. p. 562; Gaz. vol. 160; p. 81.
Wheel. W. L. Jacoby and F. B. Bell. No. 974,798; Nov. 8; Sp. p. 1622; Gaz. vol. 160; p. 273.
Wheel. F. C. Foster. No. 975,407; Nov. 15; Sp. p. 2981; Gaz. vol. 160; p. 507.
Wheel. M. C. Shea. No. 977,559; Dec. 6; Sp. p. 334; Gaz. vol. 161; p. 49.
Wheel. T. Berntson. (Reissue.) No. 13,177; Dec. 6; Sp. p. 1522; Gaz. vol. 161; p. 245.
Wheel. J. W. Holmes. No. 978,161; Dec. 13; Sp. p. 1614; Gaz. vol. 161; p. 286.
Wheel. S. J. Turner. No. 978,516; Dec. 13; Sp. p. 2370; Gaz. vol. 161; p. 409.
Wheel. F. L. White. No. 979,816; Dec. 27; Sp. p. 5202; Gaz. vol. 161; p. 902.
Wheel and tire. J. C. Lighthouse. No. 969,888; Sept. 13; Sp. p. 1610; Gaz. vol. 158; p. 278.
Wheel and tire therefor. G. D. Moore. No. 961,882; June 21; Sp. p. 3426; Gaz. vol. 155; p. 605.
Wheel attachment. J. C. Butterfield. No. 967,723; Aug. 16; Sp. p. 4009; Gaz. vol. 157; p. 687.
Wheel attachment. I. R. Thompson. No. 976,315; Nov. 22; Sp. p. 4943; Gaz. vol. 160; p. 842.
Wheel attachment, Vehicle-. G. E. Kimmel. No. 951,533; Mar. 8; Sp. p. 2181; Gaz. vol. 152; p. 378.
Wheel-brake. W. A. Paris. No. 951,146; Mar. 8; Sp. p. 1384; Gaz. vol. 152; p. 251.
Wheel connection, Vehicle-. A. F. Rockwell. No. 962,247; June 21; Sp. p. 4201; Gaz. vol. 155; p. 730.
Wheel construction. O. A. Frick. No. 962,207; June 21; Sp. p. 4127; Gaz. vol. 155; p. 716.
Wheel construction. C. A. Frick. No. 962,631; June 28; Sp. p. 5062; Gaz. vol. 155; p. 885.
Wheel coupling, Grinding and polishing. M. Cummins. No. 962,627; June 28; Sp. p. 5056; Gaz. vol. 155; p. 884.
Wheel-cutting machine. M. Pedersen. No. 959,588; May 31; Sp. p. 6847; Gaz. vol. 154; p. 1165.
Wheel drive, Magnetic traction-. C. Scott. No. 948,381; Feb. 8; Sp. p. 1267; Gaz. vol. 151; p. 228.
Wheel-fender. C. R. Folsom. No. 968,239; Aug. 23; Sp. p. 5133; Gaz. vol. 157; p. 884.
Wheel for motor and other road vehicles. H. Perrins. No. 975,453; Nov. 15; Sp. p. 3066; Gaz. vol. 160; p. 524.
Wheel-guard. J. M. Yount. No. 958,791; May 24; Sp. p. 5172; Gaz. vol. 154; p. 871.
Wheel-guard. A. Fiedler. No. 962,826; June 28; Sp. p. 5458; Gaz. vol. 155; p. 953.
Wheel link, Spring-controlled vehicle-. H. Ewing. No. 951,000; Mar. 1; Sp. p. 1111; Gaz. vol. 152; p. 179.

Wheel link, Spring-controlled vehicle-. H. Ewing. No. 951,096; Mar. 1; Sp. p. 1282; Gaz. vol. 152; p. 210.
Wheel lock, Bicycle or other. B. Schestopol. No. 977,228; Nov. 29; Sp. p. 6956; Gaz. vol. 160; p. 1182.
Wheel lubricator, Vehicle-. W. Morris. No. 957,079; May 3; Sp. p. 1247; Gaz. vol. 154; p. 198.
Wheel mount and axle. G. D. Munsing. No. 966,577; Aug. 9; Sp. p. 1604; Gaz. vol. 157; p. 273.
Wheel mount, Dirigible-. S. B. Gray. No. 951,883; Mar. 15; Sp. p. 2902; Gaz. vol. 152; p. 526.
Wheel or roller. F. S. Morton. No. 948,063; Feb. 1; Sp. p. 600; Gaz. vol. 151; p. 96.
Wheel-press. A. Wood. No. 946,930; Jan. 18; Sp. p. 4322; Gaz. vol. 150; p. 710.
Wheel removable rim, Vehicle-. A. N. Hood. No. 974,770; Nov. 1; Sp. p. 1566; Gaz. vol. 160; p. 241.
Wheel-rim, Demountable. H. J. Mortensen. No. 957,080; May 3; Sp. p. 1248; Gaz. vol. 154; p. 198.
Wheel-rim, Demountable. R. Healy. No. 975,767; Nov. 15; Sp. p. 3743; Gaz. vol. 160; p. 631.
Wheel rim, Demountable vehicle-. F. N. Bendelari. No. 967,599; Aug. 16; Sp. p. 3762; Gaz. vol. 157; p. 646.
Wheel-rim, Detachable. T. W. Broomell. No. 966,993; Aug. 9; Sp. p. 2503; Gaz. vol. 157; p. 412.
Wheel-rim, Detachable. T. W. Broomell. No. 966,994; Aug. 9; Sp. p. 2505; Gaz. vol. 157; p. 412.
Wheel-rim, Detachable. G. E. Kipp. No. 972,541; Oct. 11; Sp. p. 2237; Gaz. vol. 159; p. 386.
Wheel-rim, Detachable. R. Janclaes and W. Kaulhausen. No. 974,668; Nov. 1; Sp. p. 1336; Gaz. vol. 160; p. 208.
Wheel-rim holder, Demountable-. L. Wolff, Jr. No. 978,976; Dec. 20; Sp. p. 3365; Gaz. vol. 161; p. 591.
Wheel rim or felly for pneumatic or solid tires. J. B. Bradshaw. No. 948,267; Feb. 1; Sp. p. 989; Gaz. vol. 151; p. 163.
Wheel-rim, Removable. J. C. Cole. No. 948,813; Feb. 8; Sp. p. 2198; Gaz. vol. 151; p. 373.
Wheel rim, Removable vehicle-. A. Michelin. No. 967,536; Aug. 16; Sp. p. 3634; Gaz. vol. 157; p. 625.
Wheel-rim-securing means. O. R. Schoenrock. No. 955,213; Apr. 19; Sp. p. 3278; Gaz. vol. 153; p. 586.
Wheel-rim, Supplemental. J. L. Hecht. No. 948,138; Feb. 1; Sp. p. 743; Gaz. vol. 151; p. 121.
Wheel rim, Vehicle-. W. E. Greer. No. 959,732; May 31; Sp. p. 7143; Gaz. vol. 154; p. 1212.
Wheel rim, Vehicle-. J. M. Alderfer. No. 965,847; Aug. 2; Sp. p. 1; Gaz. vol. 157; p. 3.
Wheel rim, Vehicle-. J. R. Gammeter. No. 969,779; Sept. 13; Sp. p. 1364; Gaz. vol. 158; p. 240.
Wheel rim, Vehicle-. E. C. Shaw. No. 971,318; Sept. 27; Sp. p. 4616; Gaz. vol. 158; p. 808.
Wheel rim, Vehicle-. S. A. Huntley. No. 974,796; Nov. 8; Sp. p. 1619; Gaz. vol. 160; p. 273.
Wheel rim, Vehicle-. P. B. Bosworth. No. 977,590; Dec. 6; Sp. p. 400; Gaz. vol. 161; p. 58.
Wheel-scraper dumper. T. G. Jacklin. No. 955,878; Apr. 26; Sp. p. 4759; Gaz. vol. 153; p. 842.
Wheel-securing means. R. E. Bergmann. No. 956,031; Apr. 26; Sp. p. 5065; Gaz. vol. 153; p. 895.
Wheel support, Vehicle-. C. H. Givens. No. 955,790; Apr. 19; Sp. p. 4526; Gaz. vol. 153; p. 782.
Wheel support, Vehicle-. P. J. MacConnell. No. 970,841; Sept. 20; Sp. p. 3658; Gaz. vol. 158; p. 625.
Wheel-truing device. E. E. Green. No. 952,038; Mar. 15; Sp. p. 3207; Gaz. vol. 152; p. 577.
Wheels and means for temporarily securing a pneumatic tire thereto, Rim of. A. Michelin. No. 965,593; July 26; Sp. p. 5623; Gaz. vol. 156; p. 957.
Wheels, Antiskidding device for vehicle-. M. Clark. No. 964,610; July 19; Sp. p. 3455; Gaz. vol. 156; p. 591.
Wheels, Construction of elastic. J. Spÿker. No. 972,725; Oct. 11; Sp. p. 2646; Gaz. vol. 159; p. 449.
Wheels, Detachable and sectional rim for vehicle-. J. W. Miller. No. 976,900; Nov. 29; Sp. p. 6202; Gaz. vol. 160; p. 1067.
Wheels, Extension-rim for traction-engine. T. Schele. No. 954,214; Apr. 5; Sp. p. 1117; Gaz. vol. 153; p. 186.
Wheels in divided metallic molds, Apparatus for producing. C. Grunwald. No. 958,635; May 17; Sp. p. 4822; Gaz. vol. 154; p. 792.
Wheels, Making. A. Thompson. No. 980,022; Dec. 27; Sp. p. 5612; Gaz. vol. 161; p. 970.
Wheels, Manufacture of. E. E. Slick. No. 965,032; July 19; Sp. p. 4403; Gaz. vol. 156; p. 735.
Wheels, Manufacture of. E. E. Slick. No. 965,035; July 19; Sp. p. 4412; Gaz. vol. 156; p. 736.
Wheels, Means for forcing wires into the grooves of. G. L. Lewis. No. 969,067; Aug. 30; Sp. p. 6868; Gaz. vol. 157; p. 1195.
Wheels of vehicles, Means for securing spare rims to. W. R. Hughes and P. Cave-Moyle. No. 946,674; Jan. 18; Sp. p. 3716; Gaz. vol. 150; p. 622.
Wheels or circular bodies having peripheral treads, Making. E. E. Slick. No. 965,033; July 19; Sp. p. 4406; Gaz. vol. 156; p. 735.
Wheels, Separable rim for vehicle-. T. J. Mell. No. 960,983; June 7; Sp. p. 1488; Gaz. vol. 155; p. 250.
Wheels, Sled-runner attachment for vehicle-. J. M. Mittleman. No. 965,313; July 26; Sp. p. 4995; Gaz. vol. 156; p. 860.
Wheels to axles, Means for securing. H. C. Grant. No. 965,705; July 26; Sp. p. 5862; Gaz. vol. 156; p. 996.
Wheelbarrow. J. M. Harris. No. 961,609; June 14; Sp. p. 2831; Gaz. vol. 155; p. 490.
Wheelbarrow. A. O. Hubbard. No. 961,719; June 14; Sp. p. 3041; Gaz. vol. 155; p. 527.
Wheelbarrow. P. E. Newcomb. No. 974,909; Nov. 8; Sp. p. 1878; Gaz. vol. 160; p. 311.
Wheelbarrow. H. M. Verplanck. No. 977,056; Nov. 29; Sp. p. 6576; Gaz. vol. 160; p. 1122.
Wheelbarrow attachment. A. Lussky. No. 968,248; Aug. 23; Sp. p. 5154; Gaz. vol. 157; p. 887.
Wheelbarrow attachment. W. C. Johnson. No. 974,571; Nov. 1; Sp. p. 1144; Gaz. vol. 160; p. 173.
Wheelwright-machine. A. A. Merrill. No. 952,623; Mar. 22; Sp. p. 4409; Gaz. vol. 152; p. 804.
Wheelwright-machine. J. W. Kaldenbach. No. 978,166; Dec. 13; Sp. p. 1626; Gaz. vol. 161; p. 287.
Whetstone, Reversible. F. D. Martin. No. 951,956; Mar. 15; Sp. p. 3044; Gaz. vol. 152; p. 550.
Whiffletree. F. S. Burbee. No. 946,956; Jan. 18; Sp. p. 4365; Gaz. vol. 150; p. 717.
Whiffletree. L. E. Feinstein. No. 949,174; Feb. 15; Sp. p. 2927; Gaz. vol. 151; p. 519.
Whiffletree. W. V. Gist. No. 957,551; May 10; Sp. p. 2250; Gaz. vol. 154; p. 389.
Whiffletree. J. J. Bunting. No. 958,089; May 17; Sp. p. 3588; Gaz. vol. 154; p. 605.
Whiffletree. D. Hurd. No. 969,629; Sept. 6; Sp. p. 1018; Gaz. vol. 158; p. 163.
Whiffletree clip and hook. J. Pierson. No. 945,593; Jan. 4; Sp. p. 1259; Gaz. vol. 150; p. 196.
Whiffletree connection. J. H. Whan. No. 963,411; July 5; Sp. p. 903; Gaz. vol. 156; p. 133.
Whiffletree-coupling. F. Fellhauer. No. 966,437; Aug. 9; Sp. p. 1235; Gaz. vol. 157; p. 224.
Whiffletree-coupling. T. J. Bullock. No. 979,059; Dec. 20; Sp. p. 3541; Gaz. vol. 161; p. 619.
Whiffletree-hanger. J. I. Shaw. No. 968,703; Aug. 30; Sp. p. 6143; Gaz. vol. 157; p. 1072.
Whiffletree-hook. J. M. Tappan. No. 948,354; Feb. 8; Sp. p. 1197; Gaz. vol. 151; p. 219.
Whiffletree-hook. P. H. Skavlen. No. 948,527; Feb. 8; Sp. p. 1573; Gaz. vol. 151; p. 277.
Whiffletree-hook. W. M. Wadleigh. No. 949,556; Feb. 15; Sp. p. 3721; Gaz. vol. 151; p. 647.
Whiffletree-hook. C. E. Jones. No. 954,810; Apr. 12; Sp. p. 2440; Gaz. vol. 153; p. 417.
Whiffletree-hook. T. E. Ewer. No. 956,630; May 3; Sp. p. 262; Gaz. vol. 154; p. 44.
Whiffletree, Quick-detaching. C. G. Taylor. No. 977,484; Dec. 6; Sp. p. 128; Gaz. vol. 161; p. 22.
Whip-handle. A. O. Neuhaus. No. 952,344; Mar. 15; Sp. p. 3797; Gaz. vol. 152; p. 674.
Whip-holder. M. G. Brown. No. 951,361; Mar. 8; Sp. p. 1829; Gaz. vol. 152; p. 320.
Whip-label guard. N. F. Alston. No. 959,686; May 31; Sp. p. 7047; Gaz. vol. 154; p. 1197.
Whip-lock. E. Goff. No. 951,730; Mar. 8; Sp. p. 2558; Gaz. vol. 152; p. 443.
Whip-lock. J. Erickson. No. 955,588; Apr. 19; Sp. p. 4082; Gaz. vol. 153; p. 712.
Whip-lock. J. A. Frazer. No. 963,286; July 5; Sp. p. 657; Gaz. vol. 156; p. 92.
Whip-lock. J. E. Duffy. No. 965,696; July 26; Sp. p. 5846; Gaz. vol. 156; p. 993.
Whip-lock. L. Dietrich. No. 977,855; Dec. 6; Sp. p. 946; Gaz. vol. 161; p. 149.
Whip-lock and robe-fastener. L. L. Noakes. No. 955,535; Apr. 19; Sp. p. 3958; Gaz. vol. 153; p. 695.
Whip lock and socket, Combined. S. Lilland. No. 947,716; Jan. 25; Sp. p. 6011; Gaz. vol. 150; p. 1001.
Whip-rack. E. Dillabaugh. No. 966,315; Aug. 2; Sp. p. 984; Gaz. vol. 157; p. 158.
Whip-rack. P. H. Shafer. No. 978,945; Dec. 20; Sp. p. 3277; Gaz. vol. 161; p. 581.
Whip-socket. W. H. Goldenstein and T. Voigt. No. 948,319; Feb. 8; Sp. p. 1124; Gaz. vol. 151; p. 206.
Whip-socket. C. A. Keller. No. 956,494; Apr. 26; Sp. p. 6096; Gaz. vol. 153; p. 1055.
Whip-socket. H. Ingram. No. 962,353; June 21; Sp. p. 4438; Gaz. vol. 155; p. 765.
Whip-socket. J. S. Stevenson. No. 970,658; Sept. 20; Sp. p. 3250; Gaz. vol. 158; p. 560.
Whip-socket. M. Jones, Jr. No. 973,941; Oct. 25; Sp. p. 5297; Gaz. vol. 159; p. 920.
Whip socket and lock. M. P. Ballenger. No. 964,894; July 19; Sp. p. 4141; Gaz. vol. 156; p. 689.
Whip socket and lock. C. C. Shaw. No. 966,776; Aug. 9; Sp. p. 2051; Gaz. vol. 157; p. 341.
Whip-socket lock. J. R. Schwears. No. 955,701; Apr. 19; Sp. p. 4352; Gaz. vol. 153; p. 751.
Whip-socket lock. G. Gabel. No. 959,501; May 31; Sp. p. 6665; Gaz. vol. 154; p. 1136.
Whip-socket lock. F. E. Erickson. No. 970,696; Sept. 20; Sp. p. 3335; Gaz. vol. 158; p. 573.
Whisking-machine. W. Wenk. No. 966,501; Aug. 9; Sp. p. 1411; Gaz. vol. 157; p. 247.
Whistle and cut-out. F. G. Terwilliger. No. 976,008; Nov. 15; Sp. p. 4214; Gaz. vol. 160; p. 714.

Alphabetical list of inventions—Continued.

Whistle, Automatic warning-. T. E. Kinney. No. 977,017; Nov. 29; Sp. p. 6507; Gaz. vol. 160; p. 1110.
Whistle, Boat-. V. Fendrich. No. 945,311; Jan. 4; Sp. p. 670; Gaz. vol. 150; p. 104.
Whistle, Chime-. H. W. Aylward. No. 951,877; Mar. 15; Sp. p. 2893; Gaz. vol. 152; p. 524.
Whistle, siren, or the like. L. A. Delpeuch. No. 957,661; May 10; Sp. p. 2469; Gaz. vol. 154; p. 427.
Whiting, Manufacturing. W. Nelan. No. 950,793; Mar. 1; Sp. p. 721; Gaz. vol. 152; p. 115.
Wick blue-flame burner. A. J. Blackford. No. 952,870; Mar. 22; Sp. p. 4931; Gaz. vol. 152; p. 887.
Wick-gage. G. A. Ritzler. No. 974,522; Nov. 1; Sp. p. 1030; Gaz. vol. 160; p. 153.
Wick, Lamp-. G. A. Horn. No. 951,122; Mar. 8; Sp. p. 1336; Gaz. vol. 152; p. 244.
Wick-tube. W. R. Jeavons. No. 964,263; July 12; Sp. p. 2684; Gaz. vol. 156; p. 443.
Willow-stripping machine. G. S. and C. J. Herrick. No. 959,741; May 31; Sp. p. 7157; Gaz. vol. 154; p. 1215.
Winch. P. W. Sieurin. No. 945,478; Jan. 4; Sp. p. 1009; Gaz. vol. 150; p. 158.
Winch. H. N. Covell. No. 967,331; Aug. 16; Sp. p. 3207; Gaz. vol. 157; p. 555.
Winch. F. Metcalf and J. E. Carson. No. 975,558; Nov. 15; Sp. p. 3306; Gaz. vol. 160; p. 561.
Winch. F. Metcalf and J. E. Carson. No. 975,559; Nov. 15; Sp. p. 3310; Gaz. vol. 160; p. 562.
Wind-instrument tubing. M. M. Rubright. No. 968,694; Aug. 30; Sp. p. 6128; Gaz. vol. 157; p. 1069.
Wind-motor. D. D. McIntyre. No. 949,027; Feb. 15; Sp p. 2642; Gaz. vol. 151; p. 470.
Wind-motor. A. W. Bailey. No. 955,305; Apr. 19; Sp. p. 3470; Gaz. vol. 153; p. 616.
Wind-motor. A. W. Pickering. No. 960,394; June 7; Sp. p. 325; Gaz. vol. 155; p. 54.
Wind-motor. T. H. E. Folger. No. 961,766; June 21; Sp. p. 3159; Gaz. vol. 155; p. 567.
Wind-motor. W. A. Williams. No. 969,587; Sept. 6; Sp. p. 945; Gaz. vol. 158; p. 149.
Wind-motor. J. Schies. No. 974,995; Nov. 8; Sp. p. 2095; Gaz. vol. 160; p. 341.
Wind-motor. J. Scheubeck. No. 979,098; Dec. 20; Sp. p. 3639; Gaz. vol. 161; p. 633.
Wind-shield. H. B. Pitner. No. 952,353; Mar. 15; Sp. p. 3813; Gaz. vol. 152; p. 682.
Wind-shield. E. J. Montigny. No. 959,374; May 24; Sp. p. 6384; Gaz. vol. 154; p. 1067.
Wind-shield. E. S. Adams. No. 962,406; June 28; Sp. p. 4539; Gaz. vol. 155; p. 807.
Wind-shield. A. L. Banker. No. 968,637; Aug. 30; Sp. p. 5959; Gaz. vol. 157; p. 1049.
Wind-shield. F. Parizek. No. 973,206; Oct. 18; Sp. p. 3764; Gaz. vol. 159; p. 643.
Wind-shield. L. J. Sanker. No. 973,706; Oct. 25; Sp. p. 4820; Gaz. vol. 159; p. 838.
Wind-shield. J. Hadka. No. 975,414; Nov. 15; Sp. p. 2992; Gaz. vol. 160; p. 509.
Windmill. H. S. Banks. No. 945,210; Jan. 4; Sp. p. 422; Gaz. vol. 150; p. 70.
Windmill. J. P. Woydziak. No. 949,312; Feb. 15; Sp. p. 3204; Gaz. vol. 151; p. 565.
Windmill. F. C. De Guire. No. 953,195; Mar. 29; Sp. p. 5633; Gaz. vol. 152; p. 1024.
Windmill. N. and J. Wagner. No. 953,566; Mar. 29; Sp. p. 6428; Gaz. vol. 152; p. 1150.
Windmill. C. S. Agre. No. 953,890; Apr. 5; Sp. p. 406; Gaz. vol. 153; p. 74.
Windmill. A. T. Scott. No. 955,289; Apr. 19; Sp. p. 3433; Gaz. vol. 153; p. 610.
Windmill. A. M. Cox. No. 955,768; Apr. 19; Sp. p. 4484; Gaz. vol. 153; p. 774.
Windmill. A. M. Vold. No. 961,271; June 14; Sp. p. 2097; Gaz. vol. 155; p. 375.
Windmill. J. A. Swanson. No. 961,658; June 14; Sp. p. 2925; Gaz. vol. 155; p. 507.
Windmill. L. C. Matthews. No. 961,705; June 14; Sp. p. 3015; Gaz. vol. 155; p. 522.
Windmill. M. S. Swanstrom. No. 963,335; July 5; Sp. p. 746; Gaz. vol. 156; p. 108.
Windmill. S. Bey. No. 964,374; July 12; Sp. p. 2900; Gaz. vol. 156; p. 479.
Windmill. H. I. Hawxhurst. No. 965,387; July 26; Sp. p. 5150; Gaz. vol. 156; p. 883.
Windmill. R. W. Vaughan. No. 968,003; Aug. 23; Sp. p. 4588; Gaz. vol. 157; p. 804.
Windmill. J. A. Carlson. No. 969,522; Sept. 6; Sp. p. 791; Gaz. vol. 158; p. 124.
Windmill. J. W. Coleman. No. 978,433; Dec. 13; Sp. p. 2192; Gaz. vol. 161; p. 380.
Windmill. J. L. Dwight. No. 978,716; Dec. 13; Sp. p. 2820; Gaz. vol. 161; p. 478.
Windmill. W. P. Brett. No. 980,172; Dec. 27; Sp. p. 5985; Gaz. vol. 161; p. 1020.
Windmill construction. E. F. Baldwin. No. 951,899; Mar. 15; Sp. p. 2938; Gaz. vol. 152; p. 531.
Windmill-coupling, Safety-key. E. C. Danker. No. 954,671; Apr. 12; Sp. p. 2099; Gaz. vol. 153; p. 368.
Windmill-drive. R. B. Cummins. No. 952,979; Mar. 22; Sp. p. 5141; Gaz. vol. 152; p. 923.
Windmill-governor. L. M. Nelson. No. 950,077; Feb. 22; Sp. p. 4884; Gaz. vol. 151; p. 860.
Windmill-regulator. C. T. Echols. No. 964,408; July 12; Sp. p. 2970; Gaz. vol. 156; p. 490.
Windmill-regulator. L. S. and A. W. Hagerman. No. 969,366; Sept. 6; Sp. p. 458; Gaz. vol. 158; p. 74.
Windage losses, Means for decreasing. J. E. Noeggerath. No. 957,243; May 10; Sp. p. 1609; Gaz. vol. 154; p. 284.
Winder, Skein-. V. Lafont. No. 957,427; May 10; Sp. p. 2009; Gaz. vol. 154; p. 347.
Winding and like machine, Yarn or thread. J. Higginson, Jr., and H. Arundel. No. 951,396; Mar. 8; Sp. p. 1908; Gaz. vol. 152; p. 332.
Winding apparatus. M. Leitch. No. 977,104; Nov. 29; Sp. p. 6691; Gaz. vol. 160; p. 1139.
Winding cones and tubes, Machine for. J. C. Coram. No. 980,069; Dec. 27; Sp. p. 5727; Gaz. vol. 161; p. 985.
Winding device. J. Jacobson. No. 975,133; Nov. 8; Sp. p. 2395; Gaz. vol. 160; p. 388.
Winding device, Lace-. J. E. Nace. No. 965,648; July 26; Sp. p. 5741; Gaz. vol. 156; p. 976.
Winding device, Rope-. A. L. Fahrenholz. No. 965,146; July 19; Sp. p. 4631; Gaz. vol. 156; p. 773.
Winding device, Safety. E. Hawkins. No. 970,221; Sept. 13; Sp. p. 2323; Gaz. vol. 158; p. 390.
Winding-frames, Measuring and thread-cutting device for. M. Ebeling, Jr. No. 949,171; Feb. 15; Sp. p. 2919; Gaz. vol. 151; p. 518.
Winding-machine. S. W. Wardwell. No. 946,831; Jan. 18; Sp. p. 4082; Gaz. vol. 150; p. 676.
Winding-machine. J. O. McKean. No. 952,015; Mar. 15; Sp. p. 3163; Gaz. vol. 152; p. 569.
Winding-machine. L. H. Ballou. No. 952,497; Mar. 22; Sp. p. 4119; Gaz. vol. 152; p. 758.
Winding-machine. J. J. Warren. No. 978,967; Dec. 20; Sp. p. 3345; Gaz. vol. 161; p. 588.
Winding machine, Bobbin-. J. R. Fitton. No. 951,906; Mar. 15; Sp. p. 2954; Gaz. vol. 152; p. 535.
Winding machine, Cop-. E. H. Ryon. No. 976,698; Nov. 22; Sp. p. 5747; Gaz. vol. 160; p. 973.
Winding-machine reel. L. H. Ballou. No. 975,821; Nov 15; Sp. p. 3849; Gaz. vol. 160; p. 649.
Winding machine, Yarn-. H. S. Golland. No. 948,320; Feb. 8; Sp. p. 1125; Gaz. vol. 151; p. 207.
Winding-machines, Lubricating attachment for. S. Broadwin. No. 954,374; Apr. 5; Sp. p. 1432; Gaz. vol. 153; p. 239.
Winding-machines, Movement-adjusting device for traverse-motion mechanisms for. R. S. Matteson. No. 953,388; Mar. 29; Sp. p. 6057; Gaz. vol. 152; p. 1088.
Winding machines, Stopping mechanism for yarn-. H. C. Miller. No. 955,657; Apr. 19; Sp. p. 4249; Gaz. vol. 153; p. 736.
Winding-reel. J. A. Heany. No. 960,913; June 7; Sp. p. 1349; Gaz. vol. 155; p. 227.
Winding-reels, &c., when a predetermined length of material has been wound thereon, Apparatus for stopping. J. Clayton. No. 967,730; Aug. 16; Sp. p. 4022; Gaz. vol. 157; p. 689.
Winding-roll speed-regulator. S. L. Nicholson. No. 947,344; Jan. 25; Sp. p. 5210; Gaz. vol. 150; p. 877.
Winding-shafts, Stop-collar for. E. T. Gowing. No. 969,268; Sept. 6; Sp. p. 248; Gaz. vol. 158; p. 41.
Windlass. J. S. Oram. No. 954,332; Apr. 5; Sp. p. 1358; Gaz. vol. 153; p. 225.
Windlass. C. Andrade, Jr. No. 970,597; Sept. 20; Sp. p. 3091; Gaz. vol. 158; p. 538.
Windlass. C. Andrade, Jr. No. 971,716; Oct. 4; Sp. p. 426; Gaz. vol. 159; p. 74.
Windlass. C. Andrade, Jr. No. 972,982; Oct. 18; Sp. p. 3251; Gaz. vol. 159; p. 566.
Windlass. C. Andrade, Jr. No. 974,456; Nov. 1; Sp. p. 879; Gaz. vol. 160; p. 129.
Windlass. W. A. Samuell. No. 979,710; Dec. 27; Sp. p. 4937; Gaz. vol. 161; p. 865.
Window. O. Baigné. No. 946,491; Jan. 11; Sp. p. 3340; Gaz. vol. 150; p. 536.
Window. H. J. Davison. No. 948,956; Feb. 8; Sp. p. 2470; Gaz. vol. 151; p. 419.
Window. G. Hoehne. No. 949,574; Feb. 15; Sp. p. 3763; Gaz. vol. 151; p. 654.
Window. E. P. Carl. No. 949,973; Feb. 22; Sp. p. 4620; Gaz. vol. 151; p. 825.
Window. M. Lande. No. 951,442; Mar. 8; Sp. p. 1992; Gaz. vol. 152; p. 346.
Window. P. J. A. Smith. No. 952,689; Mar. 22; Sp. p. 4547; Gaz. vol. 152; p. 826.
Window. E. and L. H. Stanecky. No. 954,356; Apr. 5; Sp. p. 1401; Gaz. vol. 153; p. 232.
Window. W. L. Bliss. No. 957,728; May 10; Sp. p. 2601; Gaz. vol. 154; p. 450.
Window. A. F. Cizek. No. 958,596; May 17; Sp. p. 4747; Gaz. vol. 154; p. 780.
Window. I. A. Boyd. No. 959,989; May 31; Sp. p. 7725; Gaz. vol. 154; p. 1302.
Window. O. M. Edwards. No. 965,995; Aug. 2; Sp. p. 316; Gaz. vol. 157; p. 53.
Window. S. C. Franks. No. 969,778; Sept. 13; Sp. p. 1362; Gaz. vol. 158; p. 239.
Window. F. G. Baechlin. No. 970,009; Sept. 13; Sp. p. 1875; Gaz. vol. 158; p. 319.

Window. J. E. Richardson. No. 970,114; Sept. 13; Sp. p. 2083; Gaz. vol. 158; p. 354.
Window. R. Biel. No. 970,980; Sept. 20; Sp. p. 3918; Gaz. vol. 158; p. 669.
Window. S. E. Cibulas. No. 970,988; Sept. 20; Sp. p. 3930; Gaz. vol. 158; p. 671.
Window. C. Hedwig. No. 971,610; Oct. 4; Sp. p. 221; Gaz. vol. 159; p. 39.
Window. P. D. Corrigan. No. 972,681; Oct. 11; Sp. p. 2544; Gaz. vol. 159; p. 433.
Window. H. J. Davison. (Reissue.) No. 13,160; Oct. 25; Sp. p. 5631; Gaz. vol. 159; p. 977.
Window. W. A. Farmer. No. 974,870; Nov. 8; Sp. p. 1796; Gaz. vol. 160; p. 298.
Window. A. Wolff. No. 976,534; Nov. 22; Sp. p. 5431; Gaz. vol. 160; p. 917.
Window. E. Marshall. No. 978,768; Dec. 13; Sp. p. 2921; Gaz. vol. 161; p. 494.
Window adjuster, Casement-. G. L. Wilkins. No. 961,565; June 14; Sp. p. 2746; Gaz. vol. 155; p. 475.
Window adjusting and locking means, Casement-. H. G. Voight. No. 952,056; Mar. 15; Sp. p. 3240; Gaz. vol. 152; p. 583.
Window adjusting device and lock, Casement-. H. G. Voight. No. 960,452; June 7; Sp. p. 420; Gaz. vol. 155; p. 71.
Window-alarm. A. D. Girard. No. 945,935; Jan. 11; Sp. p. 2073; Gaz. vol. 150; p. 345.
Window and door screen. W. S. Caldwell. No. 975,931; Nov. 15; Sp. p. 4071; Gaz. vol. 160; p. 687.
Window and sash frame, Metallic. J. F. Weitzel. No. 964,590; July 19; Sp. p. 3418; Gaz. vol. 156; p. 584.
Window and window-frame. R. W. E. Buttlar. No. 951,362; Mar. 8; Sp. p. 1831; Gaz. vol. 152; p. 321.
Window appliance. C. L. Chester. No. 977,930; Dec. 6; Sp. p. 1104; Gaz. vol. 161; p. 176.
Window attachment. J. A. Beckert. No. 946,319; Jan. 11; Sp. p. 2882; Gaz. vol. 150; p. 478.
Window attachment. C. B. Dix. No. 979,267; Dec. 20; Sp. p. 4031; Gaz. vol. 161; p. 693.
Window attachment, Storm-. A. J. Parmeter. No. 975,992; Nov. 15; Sp. p 4180; Gaz. vol. 160; p. 708.
Window, Attic-. M. Just, F. H. Wittig, and M. Seyferth. No. 968,480; Aug. 23; Sp. p. 5609; Gaz. vol. 157; p. 968.
Window-bar. G. L. Fox. No. 953,197; Mar. 29; Sp. p. 5636; Gaz. vol. 152; p. 1024.
Window-bead fastener and the like. H. E. Church and W. V. Cowden. No. 979,430; Dec. 27; Sp. p. 4336; Gaz. vol. 161; p. 769.
Window-box support. J. S. Newgarden. No. 964,303; July 12; Sp. p. 2775; Gaz. vol. 156; p. 457.
Window-bracket. J. H. Ashmead. No. 968,311; Aug. 23; Sp. p. 5281; Gaz. vol. 157; p. 910.
Window-bracket. J. N. Parrahm. No. 977,039; Nov. 29; Sp. p. 6545; Gaz. vol. 160; p. 1117.
Window-came. W. Henderson. No. 978,745; Dec. 13; Sp. p. 2881; Gaz. vol. 161; p. 488.
Window-chair. J. J. Ronan. No. 967,676; Aug. 16; Sp. p. 3907; Gaz. vol. 157; p. 670.
Window-cleaner. M. Ax. No. 947,145; Jan. 18; Sp. p. 4708; Gaz. vol. 150; p. 778.
Window-cleaner. J. R. Lane. No. 948,631; Feb. 8; Sp. p. 1807; Gaz. vol. 151; p. 311.
Window-cleaner. H. L. Bailey. No. 948,641; Feb. 8; Sp. p. 1831; Gaz. vol. 151; p. 314.
Window-cleaner. S. Y. Yoshikawa. No. 953,729; Apr. 5; Sp. p. 93; Gaz. vol. 153; p. 19.
Window-cleaner. L. H. Arzt. No. 954,158; Apr. 5; Sp. p. 983; Gaz. vol. 153; p. 166.
Window-cleaner. P. C. Schwalen. No. 970,563; Sept. 20; Sp. p. 3031; Gaz. vol. 158; p. 527.
Window-cleaner. E. J. Schowalter. No. 974,193; Nov. 1; Sp. p. 200; Gaz. vol. 160; p. 34.
Window-cleaner. W. Stadt and W. Veltman. No. 975,474; Nov. 15; Sp. p. 3116; Gaz. vol. 160; p. 532.
Window-cleaning apparatus. P. F. Daly. No. 966,660; Aug. 9; Sp. p. 1763; Gaz. vol. 157; p. 300.
Window-cleaning chair. J. G. Babio. No. 947,191; Jan. 18; Sp. p. 4811; Gaz. vol. 150; p. 793.
Window-cleaning device. E. H. Brown. No. 950,991; Mar. 1; Sp. p. 1097; Gaz. vol. 152; p. 176.
Window-cleaning device. W. E. Allen. No. 951,431; Mar. 8; Sp. p. 1972; Gaz. vol. 152; p. 343.
Window-cleaning utensil. C. W. Coover. No. 952,309; Mar. 15; Sp. p. 3729; Gaz. vol. 152; p. 667.
Window-cleaning utensil. C. W. Coover. No. 960,276; June 7; Sp. p. 74; Gaz. vol. 155; p. 16.
Window-closing device, Automatic. C. A. Magaw and D. MacVicar. No. 946,244; Jan. 11; Sp. p. 2716; Gaz. vol. 150; p. 451.
Window closure, Self-locking ticket-. J. M. Gamble. No. 970,912; Sept. 20; Sp. p. 3788; Gaz. vol. 158; p. 647.
Window construction. J. Z. H. Baker. No. 954,606; Apr. 12; Sp. p. 1945; Gaz. vol. 153; p. 345.
Window construction. E. H. Lunken and C. M. Conklin. No. 957,693; May 10; Sp. p. 2532; Gaz. vol. 154; p. 438.
Window construction. A. J. Ellis. No. 963,363; July 5; Sp. p. 799; Gaz. vol. 156; p. 118.
Window construction. J. Roberton. No. 976,297; Nov. 22; Sp. p. 4906; Gaz. vol. 160; p. 837.
Window cooling-box. A. A. Svensen. No. 946,474; Jan. 11; Sp. p. 3303; Gaz. vol. 150; p. 531.
Window, door, and the like. H. J. Martin. No. 977,461; Dec. 6; Sp. p. 69; Gaz. vol. 161; p. 14.
Window, Double-sliding-sash. J. Mayr. No. 961,726; June 14; Sp. p. 3053; Gaz. vol. 155; p. 529.
Window-fastener. A. John. No. 961,778; June 21; Sp. p. 3177; Gaz. vol. 155; p. 570.
Window-fastener. T. T. Smith. No. 976,005; Nov. 15; Sp. p. 4208; Gaz. vol. 160; p. 713.
Window-fastener. H. M. Crawford. No. 977,854; Dec. 6; Sp. p. 945; Gaz. vol. 161; p. 149.
Window-fastener. C. M. Berry. No. 979,251; Dec. 20; Sp. p. 4003; Gaz. vol. 161; p. 688.
Window-fastening device. J. L. Mallory. No. 961,627; June 14; Sp. p. 2868; Gaz. vol. 155; p. 496.
Window-fixture. J. A. and F. Haas. No. 970,814; Sept. 20; Sp. p. 3611; Gaz. vol. 158; p. 616.
Window-frame. J. Herrmann. No. 950,850; Mar. 1; Sp. p. 828; Gaz. vol. 152; p. 133.
Window-frame. W. B. Harris. No. 957,881; May 17; Sp. p. 2929; Gaz. vol. 154; p. 530.
Window-frame. A. H. Newpher. No. 964,932; July 19; Sp. p. 4209; Gaz. vol. 156; p. 702.
Window-frame. F. E. Frisbee. No. 971,261; Sept. 27; Sp. p. 4519; Gaz. vol. 158; p. 790.
Window-frame. F. Schneider. No. 979,576; Dec. 27; Sp. p. 4669; Gaz. vol. 161; p. 820.
Window frame and sash. F. I. Fischer. No. 950,765; Mar. 1; Sp. p. 647; Gaz. vol. 152; p. 105.
Window frame and sash. O. V. Nystrom. No. 956,151; Apr. 26; Sp. p. 5338; Gaz. vol. 153; p. 938.
Window-frame attachment. W. W. Lind. No. 950,023; Feb. 22; Sp. p. 4796; Gaz. vol. 151; p. 843.
Window-frame, Sectional metallic. W. D. Smith. No. 976,308; Nov. 22; Sp. p. 4932; Gaz. vol. 160; p. 841.
Window-frame, Ventilated. D. J. Murnane. No. 967,955; Aug. 23; Sp. p. 4477; Gaz. vol. 157; p. 788.
Window-glass holder. E. M. Best. No. 973,744; Oct. 25; Sp. p. 4892; Gaz. vol. 159; p. 850.
Window-glass-securing strip. A. R. Bair. No. 974,013; Oct. 25; Sp. p. 5456; Gaz. vol. 159; p. 945.
Window-glass-setting gage. E. S. Rhoads. No. 978,781; Dec. 13; Sp. p. 2946; Gaz. vol. 161; p. 498.
Window-grating. J. D. Hughes and F. A. Rettig. No. 951,643; Mar. 8; Sp. p. 2393; Gaz. vol. 152; p. 414.
Window-guard. R. H. Wilson. No. 973,733; Oct. 25; Sp. p. 4875; Gaz. vol. 159; p. 847.
Window gutter and flashing, Show-. H. H. Treffer. No. 947,656; Jan. 25; Sp. p. 5913; Gaz. vol. 150; p. 982.
Window-lighter. A. J. Sanford. No. 964,057; July 12; Sp. p. 2274; Gaz. vol. 156; p. 374.
Window-lighter. A. J. Sanford. No. 964,058; July 12; Sp. p. 2276; Gaz. vol. 156; p. 374.
Window-lock. G. MacFarland. No. 946,611; Jan. 18; Sp. p. 3578; Gaz. vol. 150; p. 602.
Window-lock. W. B. Davis. No. 953,322; Mar. 29; Sp. p. 5890; Gaz. vol. 152; p. 1063.
Window-lock. A. Lewandowski. No. 954,638; Apr. 12; Sp. p. 2025; Gaz. vol. 153; p. 356.
Window-lock. W. R. Scurlock. No. 954,892; Apr. 12; Sp. p. 2625; Gaz. vol. 153; p. 446.
Window-lock. R. R. Reynolds. No. 955,476; Apr. 19; Sp. p. 3837; Gaz. vol. 153; p. 675.
Window-lock. J. F. Sydow. No. 957,124; May 3; Sp. p. 1330; Gaz. vol. 154; p. 212.
Window-lock. F. G. Andrews. No. 975,818; Nov. 15; Sp. p. 3843; Gaz. vol. 160; p. 648.
Window-lock. F. J. McClaskey. No. 979,017; Dec. 20; Sp. p. 3454; Gaz. vol. 161; p. 606.
Window-locking device. W. Cole. No. 963,994; July 12; Sp. p. 2151; Gaz. vol. 156; p. 351.
Window-locking device. J. H. Myers. No. 979,025; Dec. 20; Sp. p. 3471; Gaz. vol. 161; p. 609.
Window-opener, Automatic. A. A. Monson. No. 970,380; Sept. 13; Sp. p. 2632; Gaz. vol. 158; p. 444.
Window operating and locking mechanism. F. Karsitz. No. 976,575; Nov. 22; Sp. p. 5516; Gaz. vol. 160; p. 932.
Window-operating device. S. E. Cibulas. No. 954,851; Apr. 12; Sp. p. 2532; Gaz. vol. 153; p. 432.
Window-operating mechanism. J. E. Ulsh. No. 946,292; Jan. 11; Sp. p. 2823; Gaz. vol. 150; p. 469.
Window-operating mechanism. C. A. Washburn. No. 949,813; Feb. 22; Sp. p. 4255; Gaz. vol. 151; p. 767.
Window or door. A. A. Reaves. No. 961,896; June 21; Sp. p. 3443; Gaz. vol. 155; p. 609.
Window or door screen. A. Miller. No. 963,054; July 5; Sp. p. 54; Gaz. vol. 156; p. 11.
Window or screen hanger, Storm-. G. W. Darlinton. No. 974,953; Nov. 8; Sp. p. 1991; Gaz. vol. 160; p. 328.
Window-pane fastener. W. G. Kueter. No. 948,957; Feb. 8; Sp. p. 2471; Gaz. vol. 151; p. 420.
Window-pane fastener. J. E. Smith. No. 953,866; Apr. 5; Sp. p. 368; Gaz. vol. 153; p. 66.
Window-pane fastener. J. W. Van Newkirk. No. 954,484; Apr. 12; Sp. p. 1678; Gaz. vol. 153; p. 304.
Window-pane fastener. W. H. West, Jr. No. 969,820; Sept. 13; Sp. p. 1469; Gaz. vol. 158; p. 254.
Window-pane fastener. W. N. Baker. No. 971,816; Oct. 4; Sp. p. 635; Gaz. vol. 159; p. 112.

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Window, Pivoted sliding. M. Häberle. No. 956,527; May 3; Sp. p. 37; Gaz. vol. 154; p. 9.
Window provision-box. C. C. Bishop. No. 974,852; Nov. 8; Sp. p. 1752; Gaz. vol. 160; p. 292.
Window provision-holder. A. W. Sutherland. No. 966,266; Aug. 2; Sp. p. 896; Gaz. vol. 157; p. 143.
Window provision-receptacle. W. P. Sellers. No. 953,803; Apr. 5; Sp. p. 245; Gaz. vol. 153; p. 43.
Window, Reversible. N. Poulson. No. 954,587; Apr. 12; Sp. p. 1900; Gaz. vol. 153; p. 338.
Window, Reversible. G. F. Lindgren. No. 954,746; Apr. 12; Sp. p. 2280; Gaz. vol. 153; p. 395.
Window, Reversible. D. E. Hipolito. No. 958,962; May 24; Sp. p. 5541; Gaz. vol. 154; p. 931.
Window-screen. W. S. Marquis. No. 946,577; Jan. 18; Sp. p. 3505; Gaz. vol. 150; p. 590.
Window-screen. L. I. Brighton. No. 948,844; Feb. 8; Sp. p. 2259; Gaz. vol. 151; p. 383.
Window-screen. J. H. Chamberlin. No. 950,746; Mar. 1; Sp. p. 618; Gaz. vol. 152; p. 98.
Window-screen. W. J. Baker. No. 953,680; Apr. 5; Sp. p. 4; Gaz. vol. 153; p. 3.
Window-screen. W. W. Payntar. No. 953,758; Apr. 5; Sp. p. 153; Gaz. vol. 153; p. 29.
Window-screen. B. Worthington. No. 956,017; Apr. 26; Sp. p. 5039; Gaz. vol. 153; p. 891.
Window-screen. P. Ried. No. 957,906; May 17; Sp. p. 2995; Gaz. vol. 154; p. 539.
Window-screen. H. Higgin. No. 959,859; May 31; Sp. p. 7411; Gaz. vol. 154; p. 1256.
Window-screen. A. E. Paddison. No. 960,388; June 7; Sp. p. 308; Gaz. vol. 155; p. 52.
Window-screen. W. L. Kane. No. 963,373; July 5; Sp. p. 818; Gaz. vol. 156; p. 121.
Window-screen. E. Riback. No. 963,393; July 5; Sp. p. 866; Gaz. vol. 156; p. 128.
Window-screen. A., C. R., and O. J. Scharlandt. No. 964,700; July 19; Sp. p. 3744; Gaz. vol. 156; p. 622.
Window-screen. C. J. Wallen. No. 966,065; Aug. 2; Sp. p. 481; Gaz. vol. 157; p. 77.
Window-screen. F. L. Ricker. No. 969,079; Aug. 30; Sp. p. 6890; Gaz. vol. 157; p. 1199.
Window-screen. H. Petersen. No. 969,977; Sept. 13; Sp. p. 1805; Gaz. vol. 158; p. 307.
Window-screen. A. H. Newpher. No. 971,304; Sept. 27; Sp. p. 4589; Gaz. vol. 158; p. 803.
Window-screen. E. Walrath and F. W. Austin. No. 971,422; Sept. 27; Sp. p. 4811; Gaz. vol. 158; p. 842.
Window-screen. E. H. Talbert. No. 971,477; Sept. 27; Sp. p. 4910; Gaz. vol. 158; p. 859.
Window-screen. J. B. Ogborn. No. 971,922; Oct. 4; Sp. p. 884; Gaz. vol. 159; p. 152.
Window-screen. F. Sprague. No. 972,481; Oct. 11; Sp. p. 2089; Gaz. vol. 159; p. 364.
Window-screen. F. L. Michaels and G. Welling. No. 974,689; Nov. 1; Sp. p. 1387; Gaz. vol. 160; p. 215.
Window-screen. L. Manelius. No. 975,146; Nov. 8; Sp. p. 2418; Gaz. vol. 160; p. 392.
Window-screen. J. S. Speer. No. 975,172; Nov. 8; Sp. p. 2485; Gaz. vol. 160; p. 402.
Window-screen. A. H. Newpher. No. 978,624; Dec. 13; Sp. p. 2625; Gaz. vol. 161; p. 447.
Window-screen. P. R. Breither. No. 978,838; Dec. 20; Sp. p. 3043; Gaz. vol. 161; p. 541.
Window-screen bracket. F. J. Warner. No. 946,526; Jan. 11; Sp. p. 3423; Gaz. vol. 150; p. 548.
Window-screen, Roller. C. C. Boykin. No. 962,302; June 21; Sp. p. 4330; Gaz. vol. 155; p. 748.
Window-seat. G. Hinman. No. 951,642; Mar. 8; Sp. p. 2392; Gaz. vol. 152; p. 414.
Window-seat. T. S. Richardson. No. 962,468; June 28; Sp. p. 4709; Gaz. vol. 155; p. 830.
Window, Sheet-metal. A. Fromhold. No. 977,611; Dec. 6; Sp. p. 445; Gaz. vol. 161; p. 66.
Window-sill. G. H. Geraerdts. No. 977,946; Dec. 6; Sp. p. 1133; Gaz. vol. 161; p. 182.
Window-sill, Metal. J. T. Ferres. No. 967,626; Aug. 16; Sp. p. 3815; Gaz. vol. 157; p. 655.
Window-tent. J. G. Allen. No. 956,258; Apr. 26; Sp. p. 5583; Gaz. vol. 153; p. 973.
Window-tent. C. A. Hercules. No. 962,707; June 28; Sp. p. 5221; Gaz. vol. 155; p. 912.
Window-tent. G. R. Smith. No. 964,455; July 12; Sp. p. 3068; Gaz. vol. 156; p. 504.
Window-tent. J. G. Allen. No. 977,154; Nov. 29; Sp. p. 6805; Gaz. vol. 160; p. 1156.
Window ventilating device. W. B. Wilson. No. 950,465; Feb. 22; Sp. p. 5650; Gaz. vol. 151; p. 990.
Window ventilating device. W. H. Witmer. No. 972,311; Oct. 11; Sp. p. 1738; Gaz. vol. 159; p. 305.
Window ventilation. J. J. Best. No. 948,779; Feb. 8; Sp. p. 2127; Gaz. vol. 151; p. 362.
Window-ventilator. J. O. Barker. No. 946,097; Jan. 11; Sp. p. 2401; Gaz. vol. 150; p. 399.
Window-ventilator. J. H. Franke. No. 946,213; Jan. 11; Sp. p. 2640; Gaz. vol. 150; p. 439.
Window-ventilator. J. R. Emslie. No. 947,060; Jan. 18; Sp. p. 4563; Gaz. vol. 150; p. 752.
Window-ventilator. W. G. Lewis. No. 950,180; Feb. 22; Sp. p. 5103; Gaz. vol. 151; p. 895.
Window-ventilator. H. C. Bunnell. No. 961,403; June 14; Sp. p. 2378; Gaz. vol. 155; p. 421.
Window-ventilator. J. X. O'Meara. No. 963,637; July 5; Sp. p. 1354; Gaz. vol. 156; p. 210.
Window-ventilator. W. L. Thorne. No. 963,831; July 12; Sp. p. 1811; Gaz. vol. 156; p. 298.
Window-ventilator. J. C. McClain. No. 966,942; Aug. 9; Sp. p. 2395; Gaz. vol. 157; p. 393.
Window-ventilator. H. A. Dirkes. No. 967,346; Aug. 16; Sp. p. 3235; Gaz. vol. 157; p. 560.
Window-ventilator. J. B. Scureman. No. 971,412; Sept. 27; Sp. p. 4794; Gaz. vol. 158; p. 839.
Window-ventilator. A. A. Matheson. No. 977,413; Nov. 29; Sp. p. 7371; Gaz. vol. 160; p. 1246.
Window-ventilator. C. Herrmann. No. 977,739; Dec. 6; Sp. p. 704; Gaz. vol. 161; p. 110.
Window-ventilator and curtain-guard. P. H. Neffien and J. F. Giffen. No. 973,958; Oct. 25; Sp. p. 5325; Gaz. vol. 159; p. 925.
Window-ventilator and shade-guard. P. H. Neffien. No. 973,959; Oct. 25; Sp. p. 5327; Gaz. vol. 159; p. 926.
Window-ventilator and storm-shield. R. A. Dunlap. No. 948,417; Feb. 8; Sp. p. 1342; Gaz. vol. 151; p. 240.
Window-wiping device. C. A. Kellogg. No. 956,770; May 3; Sp. p. 581; Gaz. vol. 154; p. 92.
Windows and window-screens, Fastener for storm-. J. Michaelson. No. 946,250; Jan. 11; Sp. p. 2730; Gaz. vol. 150; p. 454.
Windows, Antirattler for. E. E. Clark and A. Rosenberg. No. 965,988; Aug. 2; Sp. p. 307; Gaz. vol. 157; p. 51.
Windows, Antirattling dust and weather guard for. I. H. Athey. No. 965,851; Aug. 2; Sp. p. 10; Gaz. vol. 157; p. 4.
Windows, Dust and air guard for. O. C. Call. No. 957,493; May 10; Sp. p. 2134; Gaz. vol. 154; p. 369.
Windows, screens, &c., Device for hanging storm-. E. C. Brown. No. 963,417; July 5; Sp. p. 915; Gaz. vol. 156; p. 135.
Windows tight against the ingress and egress of air, Device for making. H. Higgin. No. 955,157; Apr. 19; Sp. p. 3151; Gaz. vol. 153; p. 566.
Windows, Ventilating stop and lock for. R. B. Hoermann. No. 974,791; Nov. 8; Sp. p. 1613; Gaz. vol. 160; p. 271.
Wine-press. J. Pignocco. No. 970,391; Sept. 13; Sp. p. 2651; Gaz. vol. 158; p. 447.
Wing-carrier. W. F. Brown. No. 976,629; Nov. 22; Sp. p. 5621; Gaz. vol. 160; p. 951.
Wire-bending machine. W. H. Parker. No. 957,245; May 10; Sp. p. 1612; Gaz. vol. 154; p. 285.
Wire-bending machine. A. H. Nilson and M. Olson. No. 969,488; Sept. 6; Sp. p. 711; Gaz. vol. 158; p. 113.
Wire-bending machine. J. R. Dean. No. 977,515; Dec. 6; Sp. p. 211; Gaz. vol. 161; p. 33.
Wire-blocks, Safety-stop for. C. W. Vaughn. No. 977,490; Dec. 6; Sp. p. 139; Gaz. vol. 161; p. 24.
Wire-cable cutter. N. J. Grandchamp and L. S. Barnard. No. 964,860; July 19; Sp. p. 4067; Gaz. vol. 156; p. 678.
Wire cable, Repairing. W. McIntosh and F. Bain. No. 963,800; July 12; Sp. p. 1721; Gaz. vol. 156; p. 287.
Wire cable, socket, and coupling. C. Stevenson. No. 974,719; Nov. 1; Sp. p. 1454; Gaz. vol. 160; p. 224.
Wire chain. I. A. Brown. No. 955,129; Apr. 19; Sp. p. 3090; Gaz. vol. 153; p. 555.
Wire-clamp. H. R. Ritter. No. 966,243; Aug. 2; Sp. p. 855; Gaz. vol. 157; p. 136.
Wire-clamp. D. P. Page. No. 976,906; Nov. 29; Sp. p. 6215; Gaz. vol. 160; p. 1070.
Wire-clamping mechanism. E. Lewis and F. H. Nullmeyer. No. 969,546; Sept. 6; Sp. p. 851; Gaz. vol. 158; p. 134.
Wire-clip. O. A. Beliveau. No. 957,485; May 10; Sp. p. 2111; Gaz. vol. 154; p. 366.
Wire-coiling apparatus. C. L. Ritter. No. 952,582; Mar. 22; Sp. p. 4307; Gaz. vol. 152; p. 789.
Wire-coiling machine. C. Wright, Jr. No. 963,197; July 5; Sp. p. 429; Gaz. vol. 156; p. 61.
Wire-connector. P. F. Williams. No. 976,111; Nov. 15; Sp. p. 4423; Gaz. vol. 160; p. 750.
Wire connector, Ground-. F. E. McKenna. No. 949,743; Feb. 15; Sp. p. 4089; Gaz. vol. 151; p. 709.
Wire cord, Spring grip-holder for. C. L. Glynn. No. 977,384; Nov. 29; Sp. p. 7283; Gaz. vol. 160; 1237.
Wire cramps and driving them into pasteboard and other material, Mechanism for forming. F. Bonnesen and G. A. Engblom. No. 964,202; July 12; Sp. p. 2556; Gaz. vol. 156; p. 421.
Wire-cutter. A. B. Schofield. No. 955,287; Apr. 19; Sp. p. 3430; Gaz. vol. 153; p. 610.
Wire-cutter. W. Peters. No. 961,794; June 21; Sp. p. 3207; Gaz. vol. 155; p. 576.
Wire-cutter. T. A. Briggs. No. 971,247; Sept. 27; Sp. p. 4495; Gaz. vol. 158; p. 786.
Wire, Cutting pile-. G. Crossland. No. 978,116; Dec. 6; Sp. p. 1496; Gaz. vol. 161; p. 241.
Wire-drawing block. H. B. Humphrey. No. 961,449; June 14; Sp. p. 2484; Gaz. vol. 155; p. 437.
Wire-drawing die. G. A. Joyce. No. 978,301; Dec. 13; Sp. p. 1923; Gaz. vol. 161; p. 336.
Wire-drawing dies, Cooling attachment for. J. A. Horton. No. 957,464; May 10; Sp. p. 2072; Gaz. vol. 154; p. 359.

Wire-drawing machine. E. H. Carroll. No. 956,885; May 3; Sp. p. 842; Gaz. vol. 154; p. 133.
Wire-drawing machine. H. E. P. Taylor. No. 974,723; Nov. 1; Sp. p. 1465; Gaz. vol. 160; p. 225.
Wire-drawing machine. R. L. Morgan. No. 975,979; Nov. 15; Sp. p. 4159; Gaz. vol. 160; p. 703.
Wire-drawing machine and uncoiling appliance therefor. J. A. Horton. No. 960,016; May 31; Sp. p. 7791; Gaz. vol. 154; p. 1311.
Wire-drawing machine, Continuous-. H. Saville. No. 975,641; Nov. 15; Sp. p. 3478; Gaz. vol. 160; p. 589.
Wire-drawing machinery. A. Rathbone. No. 957,093; May 3; Sp. p. 1277; Gaz. vol. 154; p. 202.
Wire-drawing machinery, Continuous-. H. Saville. No. 954,888; Apr. 12; Sp. p. 2619; Gaz. vol. 153; p. 445.
Wire fabric. C. H. Gail. No. 946,120; Jan. 11; Sp. p. 2442; Gaz. vol. 150; p. 406.
Wire fabric. H. E. White. No. 955,110; Apr. 12; Sp. p. 3040; Gaz. vol. 153; p. 516.
Wire fabric. W. F. White. No. 962,541; June 28; Sp. p. 4865; Gaz. vol. 155; p. 855.
Wire fabric. J. L. Isaacs. No. 970,713; Sept. 20; Sp. p. 3377; Gaz. vol. 158; p. 579.
Wire fabric. W. E. Frank and C. C. Taylor. No. 978,149; Dec. 13; Sp. p. 1590; Gaz. vol. 161; p. 282.
Wire fabric for screens, Woven-. M. P. Reynolds. No. 966,599; Aug. 9; Sp. p. 1649; Gaz. vol. 157; p. 281.
Wire-fabric machine. F. E. Willits. No. 975,492; Nov. 15; Sp. p. 3147; Gaz. vol. 160; p. 537.
Wire-fabric-making machine. W. N. Parrish. No. 958,888; May 24; Sp. p. 5401; Gaz. vol. 154; p. 906.
Wire-fabric-making machine. A. L. Kitselman. No. 980,104; Dec. 27; Sp. p. 5815; Gaz. vol. 161; p. 997.
Wire-fastener. J. Life. No. 959,766; May 31; Sp. p. 7210; Gaz. vol. 154; p. 1224.
Wire-fastener. G. C. Wilkison. No. 969,231; Sept. 6; Sp. p. 187; Gaz. vol. 158; p. 31.
Wire-fastener. W. C. Kramer, Jr. No. 970,722; Sept. 20; Sp. p. 3392; Gaz. vol. 158; p. 582.
Wire-forming machine. L. R. Compton. No. 947,296; Jan. 25; Sp. p. 5079; Gaz. vol. 150; p. 859.
Wire-grip. C. A. Svensson. No. 977,236; Nov. 29; Sp. p. 6973; Gaz. vol. 160; p. 1186.
Wire-holder. H. Holden. No. 961,611; June 14; Sp. p. 2833; Gaz. vol. 155; p. 490.
Wire hoops, Lock-forming device for. J. Rolston. No. 954,886; Apr. 12; Sp. p. 2616; Gaz. vol. 153; p. 444.
Wire machine, Barbed-. D. C. Smith. No. 972,657; Oct. 11; Sp. p. 2499; Gaz. vol. 159; p. 426.
Wire, Making seamless. T. F. Carlisle. No. 978,846; Dec. 20; Sp. p. 3056; Gaz. vol. 161; p. 544.
Wire mat. I. J. Young. No. 970,595; Sept. 20; Sp. p. 3089; Gaz. vol. 158; p. 538.
Wire, Means for applying coverings to. J. A. Heany. No. 948,324; Feb. 8; Sp. p. 1134; Gaz. vol. 151; p. 208.
Wire nail. H. P. McMillan. No. 978,185; Dec. 13; Sp. p. 1672; Gaz. vol. 161; p. 294.
Wire-netting. A. E. Barlow. No. 971,656; Oct. 4; Sp. p. 305; Gaz. vol. 159; p. 54.
Wire-netting and field-fencing, Machine for making. J. A. Holmquist. No. 951,610; Mar. 8; Sp. p. 2321; Gaz. vol. 152; p. 403.
Wire-netting, Machine for weaving. A. W. Storey. No. 976,946; Nov. 29; Sp. p. 6327; Gaz. vol. 160; p. 1084.
Wire netting, Manufacture of woven-. A. W. Storey. No. 966,137; Aug. 2; Sp. p. 606; Gaz. vol. 157; p. 100.
Wire-netting-weaving machine. C. E. Begg. No. 957,643; May 10; Sp. p. 2426; Gaz. vol. 154; p. 420.
Wire or band tightening implement. N. and J. N. Thomas. No. 954,226; Apr. 5; Sp. p. 1140; Gaz. vol. 153; p. 189.
Wire-plating machine. G. L. Wallace. No. 954,833; Apr. 12; Sp. p. 2492; Gaz. vol. 153; p. 425.
Wire reel, Barb-. W. P. Kassulker. No. 974,070; Oct. 25; Sp. p. 5566; Gaz. vol. 159; p. 964.
Wire rope. H. Leschen. No. 975,541; Nov. 15; Sp. p. 3273; Gaz. vol. 160; p. 556.
Wire-rope clamp. C. A. McCarthy. No. 951,095; Mar. 1; Sp. p. 1281; Gaz. vol. 152; p. 210.
Wire rope, Non-rotating. G. S. Whyte. No. 952,161; Mar. 15; Sp. p. 3431; Gaz. vol. 152; p. 617.
Wire-splicer. A. V. Anderson. No 966,152; Aug. 2; Sp. p. 659; Gaz. vol. 157; p. 105.
Wire-splicer. M. Friday. No. 972,844; Oct. 18; Sp. p. 2900; Gaz. vol. 159; p. 516.
Wire spring, Folding woven-. H. N. Werner. No. 975,007; Nov. 8; Sp. p. 2123; Gaz. vol. 160; p. 346.
Wire-stapling machine. C. D. Mackay. No. 968,863; Aug. 30; Sp. p. 6455; Gaz. vol. 157; p. 1124.
Wire-stitcher. T. A. Briggs. No. 970,461; Sept. 20; Sp. p. 2796; Gaz. vol. 158; p. 491.
Wire-stitching machine. C. G. Glover. No. 946,799; Jan. 18; Sp. p. 4008; Gaz. vol. 150; p. 665.
Wire-stock, Die for helically fluting. C. H. Ballou. No. 946,631; Jan. 18; Sp. p. 3626; Gaz. vol. 150; p. 609.
Wire-stretcher. J. B. Davis and F. S. Adams. No. 945,493; Jan. 4; Sp. p. 1060; Gaz. vol. 150; p. 163.
Wire-stretcher. C. T. Newland. No. 947,739; Jan. 25; Sp. p. 6050; Gaz. vol. 150; p. 1008.
Wire-stretcher. J. Wright. No. 949,458; Feb. 15; Sp. p. 3517; Gaz. vol. 151; p. 614.
Wire-stretcher. R. Ten Broeck. No. 949,968; Feb. 22; Sp. p. 4606; Gaz. vol. 151; p. 822.
Wire-stretcher. S. B. Elder. No. 950,098; Feb. 22; Sp. p. 4929; Gaz. vol. 151; p. 867.
Wire-stretcher. R. Whitlock. No. 950,883; Mar. 1; Sp. p. 889; Gaz. vol. 152; p. 142.
Wire-stretcher. E. Godwin. No. 951,111; Mar. 8; Sp. p. 1313; Gaz. vol. 152; p. 241.
Wire-stretcher. E. B. Zimmerman. No. 951,355; Mar. 8; Sp. p. 1815; Gaz. vol. 152; p. 318.
Wire-stretcher. E. J. McCain. No. 951,963; Mar. 15; Sp. p. 3058; Gaz. vol. 152; p. 553.
Wire-stretcher. J. P. Carnes. No. 953,257; Mar. 29; Sp. p. 5766; Gaz. vol. 152; p. 1044.
Wire-stretcher. J. H. Forshee. No. 956,328; Apr. 26; Sp. p. 5734; Gaz. vol. 153; p. 998.
Wire-stretcher. B. B. Bobb. No. 959,988; May 31; Sp. p. 7724; Gaz. vol. 154; p. 1301.
Wire-stretcher. L. E. Cooper. No. 960,511; June 7; Sp. p. 548; Gaz. vol. 155; p. 90.
Wire-stretcher. J. H. Rager. No. 964,552; July 19; Sp. p. 3327; Gaz. vol. 156; p. 569.
Wire-stretcher. J. Habben. No. 966,828; Aug. 9; Sp. p. 2169; Gaz. vol. 157; p. 357.
Wire-stretcher. W. H. Hannah. No. 969,951; Sept. 13; Sp. p. 1742; Gaz. vol. 158; p. 299.
Wire-stretcher. C. W. Babb. No. 972,049; Oct. 4; Sp. p. 1177; Gaz. vol. 159; p. 198.
Wire-stretcher. W. F. Shipman. No. 972,268; Oct. 11; Sp. p. 1653; Gaz. vol. 159; p. 290.
Wire-stretcher. A. A. Boe. No. 974,228; Nov. 1; Sp. p. 274; Gaz. vol. 160; p. 46.
Wire-stretcher. A. Green. No. 974,258; Nov. 1; Sp. p. 394; Gaz. vol. 160; p. 58.
Wire-stretcher. J. H. Lewis. No. 974,403; Nov. 1; Sp. p. 726; Gaz. vol. 160; p. 110.
Wire-stretcher. J. E. Johnson, J. M. Perry, and B. McMahon. No. 975,247; Nov. 8; Sp. p. 2650; Gaz. vol. 160; p. 428.
Wire-stretcher. W. R. Buchanan. No. 975,324; Nov. 8; Sp. p. 2810; Gaz. vol. 160; p. 454.
Wire-stretcher. A. Vallem. No. 978,240; Dec. 13; Sp. p. 1784; Gaz. vol. 161; p. 313.
Wire-stretcher. A. Curren. No. 978,989; Dec. 20; Sp. p. 3392; Gaz. vol. 161; p. 597.
Wire-stretcher. J. W. Baggett. No. 979,915; Dec. 27; Sp. p. 5410; Gaz. vol. 161; p. 935.
Wire stretcher and splicer. H. C. Jacobs. No. 961,237; June 14; Sp. p. 2024; Gaz. vol. 155; p. 365.
Wire stretcher and splicer. G. D. Hayes. No. 977,869; Dec. 6; Sp. p. 976; Gaz. vol. 161; p. 154.
Wire-stretching clamp. O. J. Nederloe. No. 971,065; Sept. 27; Sp. p. 4104; Gaz. vol. 158; p. 726.
Wire-stripping device. F. A. Swan. No. 967,998; Aug. 23; Sp. p. 4580; Gaz. vol. 157; p. 803.
Wire structure. T. G. Melish. No. 950,236; Feb. 22; Sp. p. 5225; Gaz. vol. 151; p. 916.
Wire structure. T. G. Melish and M. W. Gatch. No. 957,619; May 10; Sp. p. 2377; Gaz. vol. 154; p. 412.
Wire, Treating rods for. J. Remmen and G. V. Sborigi. No. 955,552; Apr. 19; Sp. p. 4000; Gaz. vol. 153; p. 701.
Wire twisting and weaving machine. J. Cevasco, N. J. Cavagnaro, and C. Ambrette. No. 976,548; Nov. 22; Sp. p. 5460; Gaz. vol. 160; p. 923.
Wire-twisting implement. A. Kaspar. No. 978,028; Dec. 6; Sp. p. 1303; Gaz. vol. 161; p. 209.
Wire-twisting machine. J. F. Foley. No. 960,162; May 31; Sp. p. 8084; Gaz. vol. 154; p. 1359.
Wire-winding machine. C. E. Fetherolf. No. 952,005; Mar. 15; Sp. p. 3140; Gaz. vol. 152; p. 566.
Wire-winding machine. J. N. Johnson. No. 972,623; Oct. 11; Sp. p. 2434; Gaz. vol. 159; p. 415.
Wire-winding machines, Notching attachment for. G. W. Stancliff. No. 961,038; June 7; Sp. p. 1606; Gaz. vol. 155; p. 269.
Wire with yarn or its equivalent, Machine for covering or insulating. D. Noble. No. 965,928; Aug. 2; Sp. p. 166; Gaz. vol. 157; p. 28.
Wire with yarn or its equivalent, Machine for covering or insulating. D. Noble. No. 970,098; Sept. 13; Sp. p. 2055; Gaz. vol. 158; p. 349.
Wire-working, needle-pointing, or the like, Machine for. F. R. Eden. No. 953,741; Apr. 5; Sp. p. 119; Gaz. vol. 153; p. 23.
Wires, &c., Apparatus for stringing. P. D. Kline and B. A. D. Ward. No. 965,528; July 26; Sp. p. 5482; Gaz. vol. 156; p. 933.
Wires or conductors, Connection for. E. Schmidmer. No. 947,601; Jan. 25; Sp. p. 5797; Gaz. vol. 150; p. 963.
Wires, strips, or pieces of metal, Uniting together. S. Woods. No. 965,788; July 26; Sp. p. 6028; Gaz. vol. 156; p. 1024.
Wires to one another, Method and means for attaching. J. G. D. Mack. No. 945,401; Jan. 4; Sp. p. 857; Gaz. vol. 150; p. 133.
Wired edges, Machine for making. H. Gansslen. No. 976,353; Nov. 22; Sp. p. 5033; Gaz. vol. 160; p. 854.
Wiring, Combined cleat and switch for house-. H. R. Sargent. No. 953,236; Mar. 29; Sp. p. 5710; Gaz. vol. 152; p. 1037.

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Wiring device, Portable. J. A. Kray. No. 979,514; Dec. 27; Sp. p. 4516; Gaz. vol. 161; p. 797.
Wireless apparatus. F. G. Sargent. No. 974,191; Nov. 1; Sp. p. 197; Gaz. vol. 160; p. 33.
Wireless communication, Detector for. J. L. Hogan, Jr. No. 950,781; Mar. 1; Sp. p. 692; Gaz. vol. 152; p. 110.
Wireless controlling device. C. L. Coleman. No. 951,524; Mar. 8; Sp. p. 2160; Gaz. vol. 152; p. 375.
Wireless transmission apparatus for controlling the movements of vessels. V. C. de Ybarrondo. No. 970,592; Sept. 20; Sp. p. 3083; Gaz. vol. 158; p. 537.
Wireless transmitting system. J. Muth and C. F. Heinkel. No. 953,635; Mar. 29; Sp. p. 6575; Gaz. vol. 152; p. 1174.
Wood, Bath for extracting products from. F. Popè. No. 947,420; Jan. 25; Sp. p. 5381; Gaz. vol. 150; p. 902.
Wood bending and hardening machine. M. S. E. Anduaga and H. Bourrelly. No. 966,983; Aug. 9; Sp. p. 2481; Gaz. vol. 157; p. 408.
Wood-bending machine. H. W. Bason. No. 954,848; Apr. 12; Sp. p. 2527; Gaz. vol. 153; p. 431.
Wood-bending machine. J. B. Cameron. No. 959,993; May 31; Sp. p. 7732; Gaz. vol. 154; p. 1303.
Wood-bending machine. C. W. Elliott. No. 960,525; June 7; Sp. p. 571; Gaz. vol. 155; p. 95.
Wood-bending machine. S. R. Bailey. No. 973,401; Oct. 18; Sp. p. 4169; Gaz. vol. 159; p. 711.
Wood-bending machine. W. A. Knilans. No. 977,804; Dec. 6; Sp. p. 838; Gaz. vol. 161; p. 132.
Wood, Coloring. L. S. Gardner. No. 952,245; Mar. 15; Sp. p. 3592; Gaz. vol. 152; p. 646.
Wood, Coloring and fireproofing. W. A. Hall. No. 961,123; June 14; Sp. p. 1786; Gaz. vol. 155; p. 323.
Wood, Composition of matter for cleaning and shining. P. J. Shaffer. No. 961,903; June 21; Sp. p. 3457; Gaz. vol. 155; p. 612.
Wood, Creosoting. P. F. Dundon. No. 952,888; Mar. 22; Sp. p. 4965; Gaz. vol. 152; p. 893.
Wood-cutter or countersink. P. M. Grandperrin. No. 961,770; June 21; Sp. p. 3165; Gaz. vol. 155; p. 568.
Wood, Extracting products from. F. Pope. No. 959,599; May 31; Sp. p. 6868; Gaz. vol. 154; p. 1169.
Wood, Impregnating. W. B. Chisolm. No. 965,154; July 26; Sp. p. 4659; Gaz. vol. 156; p. 807.
Wood in salt water, Protecting. C. P. Tatro and G. Delius. No. 948,355; Feb. 8; Sp. p. 1199; Gaz. vol. 151; p. 219.
Wood lamina, Expanded. A. M. Stoltey. No. 974,536; Nov. 1; Sp. p. 1067; Gaz. vol. 160; p. 159.
Wood-molding machine. F. D. Green. No. 946,507; Jan. 11; Sp. p. 3379; Gaz. vol. 150; p. 542.
Wood-ornamenting machine. G. Sander. No. 966,605; Aug. 9; Sp. p. 1657; Gaz. vol. 157; p. 283.
Wood, Preserving. J. Chateau and J. Merklen. No. 945,693; Jan. 4; Sp. p. 1462; Gaz. vol. 150; p. 229.
Wood, Preserving. W. B. Chisolm. No. 955,762; Apr. 19; Sp. p. 4471; Gaz. vol. 153; p. 772.
Wood, Preserving. J. Gerlache. No. 959,505; May 31; Sp. p. 6683; Gaz. vol. 154; p. 1137.
Wood, Preserving. G. Hartmann and O. A. Schwerdtner. No. 974,962; Nov. 8; Sp. p. 2020; Gaz. vol. 160; p. 331.
Wood-preserving apparatus. P. F. Dundon. No. 952,887; Mar. 22; Sp. p. 4964; Gaz. vol. 152; p. 893.
Wood-preserving solution. F. Hasselmann. No. 971,194; Sept. 27; Sp. p. 4380; Gaz. vol. 158; p. 769.
Wood-pulp, Machine to manufacture soda and sulfite. P. B. Palmer. No. 956,728; May 3; Sp. p. 493; Gaz. vol. 154; p. 79.
Wood-scoring device for planes and the like. C. Bodner. No. 968,508; Aug. 23; Sp. p. 5634; Gaz. vol. 157; p. 978.
Wood-shaping machines, Safety device for. J. M. Jones. No. 955,408; Apr. 19; Sp. p. 3706; Gaz. vol. 153; p. 651.
Wood-smoothing machine. J. A. Crismore. No. 963,523; July 5; Sp. p. 1129; Gaz. vol. 156; p. 171.
Wood-splitting machine. M. J. Power. No. 946,705; Jan. 18; Sp. p. 3775; Gaz. vol. 150; p. 632.
Wood-surfacing machine. J. W. Bell. No. 970,875; Sept. 20; Sp. p. 3719; Gaz. vol. 158; p. 636.
Wood, Transforming. W. A. Hall. No. 964,017; July 12; Sp. p. 2192; Gaz. vol. 156; p. 359.
Wood, Treating. F. J. Taylor. No. 979,901; Dec. 27; Sp. p. 5381; Gaz. vol. 161; p. 930.
Wooden articles and preventing straightening thereof, Forming bent. T. R. Bruffy. No. 966,308; Aug. 2; Sp. p. 973; Gaz. vol. 157; p. 156.
Wooden core and making the same. D. C. Meehan. No. 974,984; Nov. 8; Sp. p. 2070; Gaz. vol. 160; p. 338.
Woodworker's press for glued work. J. M. Darr. No. 974,240; Nov. 1; Sp. p. 357; Gaz. vol. 160; p. 51.
Woodworking-cutter. K. J. Spieth. No. 947,462; Jan. 25; Sp. p. 5476; Gaz. vol. 150; p. 915.
Woodworking-machine. F. D. Green. No. 946,508; Jan. 11; Sp. p. 3387; Gaz. vol. 150; p. 543.
Woodworking-machine. A. B. Norris. No. 959,583; May 31; Sp. p. 6834; Gaz. vol. 154; p. 1163.
Woodworking-machine. C. W. Borg. No. 965,983; Aug. 2; Sp. p. 292; Gaz. vol. 157; p. 48.
Woodworking-machine. H. Rieck. No. 972,249; Oct. 11; Sp. p. 1616; Gaz. vol. 159; p. 284.
Woodworking-machine. A. D. Catlin. No. 979,824; Dec. 27; Sp. p. 5216; Gaz. vol. 161; p. 905.
Woodworking-machine attachment. A. C. Tippett. No. 952,964; Mar. 22; Sp. p. 5115; Gaz. vol. 152; p. 919.
Woodworking-machine guard. L. J. Halverstadt. No. 969,618; Sept. 6; Sp. p. 999; Gaz. vol. 158; p. 159.
Woodworking-machine guard. A. F. W. Zastrow. No. 973,837; Oct. 25; Sp. p. 5084; Gaz. vol. 159; p. 883.
Woodworking-machine, Universal. A. C. Getz. No. 970,917; Sept. 20; Sp. p. 3794; Gaz. vol. 158; p. 648.
Woodworking-machines, Guide and chip-breaker for. C. W. Borg. No. 965,984; Aug. 2; Sp. p. 298; Gaz. vol. 157; p. 49.
Woodworking-machines, Split cap for. C. Helbing, Jr. No. 953,203; Mar. 29; Sp. p. 5648; Gaz. vol. 152; p. 1026.
Woodworking-machines, Spring-post for. C. T. Cunnius. No. 947,211; Jan. 18; Sp. p. 4856; Gaz. vol. 150; p. 801.
Woodworking machinery. W. E. Brock. No. 945,373; Jan. 4; Sp. p. 801; Gaz. vol. 150; p. 123.
Woodworking machinery, Cutter-head for. W. O. Vivarttas. No. 978,414; Dec. 13; Sp. p. 2157; Gaz vol. 161; p. 375.
Woodworking-shaper. J. Hauser. No. 953,949; Apr. 5; Sp. p. 523; Gaz. vol. 153; p. 95.
Woodworking-tool. R. N. Adams. No. 975,494; Nov. 15; Sp. p. 3154; Gaz. vol. 160; p. 538.
Wool, Apparatus for removing the grease and yolk from. R. Vandatte and B. Lagye. No. 961,468; June 14; Sp. p. 2530; Gaz. vol. 155; p. 443.
Wool-washer. F. L. Furbush. No. 954,728; Apr. 12; Sp. p. 2234; Gaz. vol. 153; p. 388.
Wool-washer. F. G. Sargent. No. 973,388; Oct. 18; Sp. p. 4137; Gaz. vol. 159; p. 705.
Wool-washing machine and the like. F. G. Sargent. No. 961,023; June 7; Sp. p. 1575; Gaz. vol. 155; p. 264.
Wool-washing-machine carrier. F. G. Sargent. No. 970,118; Sept. 13; Sp. p. 2090; Gaz. vol. 158; p. 356.
Work-bench drawer and portable tool-chest, Combined. E. E. Berthold and H. Horstmann. No. 971,584; Oct. 4; Sp. p. 158; Gaz. vol. 159; p. 29.
Work-holder. J. Demarchi. No. 967,175; Aug. 16; Sp. p. 2896; Gaz. vol. 157; p. 502.
Work-holder. D. S. Whitaker. No. 970,586; Sept. 20; Sp. p. 3073; Gaz. vol. 158; p. 535.
Work-stand. S. Dymoke. No. 962,325; June 21; Sp. p. 4377; Gaz. vol. 155; p. 756.
Work-support. E. Fagan. No. 970,902; Sept. 20; Sp. p. 3771; Gaz. vol. 158; p. 644.
Work-support or mandrel. G. E. Evans. No. 966,673; Aug. 9; Sp. p. 1783; Gaz. vol. 157; p. 305.
Work-table for bars, soda-fountain counters, &c. J. J. Betzold. No. 947,609; Jan. 25; Sp. p. 5813; Gaz. vol. 150; p. 965.
Worming-tool. A. W. Poole. No. 972,237; Oct. 11; Sp. p. 1593; Gaz. vol. 159; p. 280.
Woven fabric. C. L. Fetterly. No. 975,940; Nov. 15; Sp. p. 4092; Gaz. vol. 160; p. 690.
Woven fabric, Asbestos-faced. G. H. Smith. No. 963,013; June 28; Sp. p. 5807; Gaz. vol. 155; p. 1017.
Wrap. N. T. Mercey. No. 965,921; Aug. 2; Sp. p. 153; Gaz. vol. 157; p. 26.
Wrapper. J. Greenberg. No. 960,311; June 7; Sp. p. 143; Gaz. vol. 155; p. 27.
Wrapper. G. S. Hutchings. No. 979,307; Dec. 20; Sp. p. 4103; Gaz. vol. 161; p. 706.
Wrapper or receptacle. A. W. Nack. No. 963,313; July 5; Sp. p. 700; Gaz. vol. 156; p. 100.
Wrapper, Tubular. H. J. Blocki. No. 962,614; June 28; Sp. p. 5028; Gaz. vol. 155; p. 880.
Wrappers from strips, Mechanism for cutting. H. Y. Armstrong. No. 979,406; Dec. 27; Sp. p. 4293; Gaz. vol. 161; p. 762.
Wrapping and labeling machine. T. G. McGirr. No. 949,804; Feb. 22; Sp. p. 4231; Gaz. vol. 151; p. 764.
Wrapping and nesting hollow articles, Machine for. F. A. G. Robin. No. 945,730; Jan. 4; Sp. p. 1570; Gaz. vol. 150; p. 242.
Wrapping-machine. T. G. McGirr. No. 949,801; Feb. 22; Sp. p. 4223; Gaz. vol. 151; p. 762.
Wrapping-machine. T. G. McGirr. No. 949,802; Feb. 22; Sp. p. 4226; Gaz. vol. 151; p. 763.
Wrapping-machine. T. G. McGirr. No. 949,803; Feb. 22; Sp. p. 4228; Gaz. vol. 151; p. 763.
Wrapping-machine. J. N. Jacobsen. No. 952,256; Mar. 15; Sp. p. 3610; Gaz. vol. 152; p. 650.
Wrapping-machine. C. C. Page. No. 952,273; Mar. 15; Sp. p. 3648; Gaz. vol. 152; p. 655.
Wrapping-machine. R. Britton. No. 956,473; Apr. 26; Sp. p. 6040; Gaz. vol. 153; p. 1048.
Wrapping-machine. F. Grover. No. 973,863; Oct. 25; Sp. p. 5133; Gaz. vol. 159; p. 892.
Wrapping-machine. L. H. Wilbur. No. 974,453; Nov. 1; Sp. p. 864; Gaz. vol. 160; p. 127.
Wrapping machine, Newspaper-. I. R. Hutchinson. No. 971,893; Oct. 4; Sp. p. 818; Gaz. vol. 159; p. 141.
Wrapping machine, Package-. J. H. Felmlee and E. Felumlee. No. 967,624; Aug. 16; Sp. p. 3807; Gaz. vol. 157; p. 654.
Wrapping mechanisms, Apparatus for feeding articles to. H. Rose. No. 972,649; Oct. 11; Sp. p. 2486; Gaz. vol. 159; p. 423.
Wrapping various articles, Machine for. F. Giroud. No. 968,146; Aug. 23; Sp. p. 4917; Gaz. vol. 157; p. 852.

Wreck-preventer. E. B. Poole. No. 951,698; Mar. 8; Sp. p. 2491; Gaz. vol. 152; p. 433.
Wrecking apparatus. J. M. W. Hassing and J. V. Fitzsimmons. No. 959,526; May 31; Sp. p. 6717; Gaz. vol. 154; p. 1143.
Wrecking bodies sunk in water, Method and apparatus for. R. O. King. No. 975,534; Nov. 15; Sp. p. 3259; Gaz. vol. 160; p. 553.
Wrench: *See* Adjustable wrench; Casing-wrench; Combination-wrench; Jar-wrench; Monkey-wrench; Pipe-wrench; Pipe and nut wrench; Quick-acting wrench; Quick-adjusting wrench; Ratchet-wrench; Socket-wrench; Spanner-wrench; Tap-wrench.
Wrench. G. H. Straight. No. 945,633; Jan. 4; Sp. p. 1345; Gaz. vol. 150; p. 209.
Wrench. W. J. Marks and J. Lueckert. No. 946,383; Jan. 11; Sp. p. 3110; Gaz. vol. 150; p. 500.
Wrench. J. F. Crowl. No. 946,498; Jan. 11; Sp. p. 3354; Gaz. vol. 150; p. 538.
Wrench. H. A. Paquette. No. 947,346; Jan. 25; Sp. p. 5214; Gaz. vol. 150; p. 878.
Wrench. S. O. Orr. No. 947,619; Jan. 25; Sp. p. 5837; Gaz. vol. 150; p. 969.
Wrench. I. J. Basken. No. 948,035; Feb. 1; Sp. p. 535; Gaz. vol. 151; p. 86.
Wrench. F. Knobel. No. 948,332; Feb. 8; Sp. p. 1146; Gaz. vol. 151; p. 211.
Wrench. L. L. Barrick. No. 948,870; Feb. 8; Sp. p. 2299; Gaz. vol. 151; p. 391.
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Wrench. F. Mossberg. No. 949,083; Feb. 15; Sp. p. 2748; Gaz. vol. 151; p. 488.
Wrench. C. A. and E. Rayman. No. 949,685; Feb. 15; Sp. p. 3954; Gaz. vol. 151; p. 689.
Wrench. H. H. Warner. No. 950,584; Mar. 1; Sp. p. 253; Gaz. vol. 152; p. 42.
Wrench. H. H. Warner. No. 950,585; Mar. 1; Sp. p. 254; Gaz. vol. 152; p. 42.
Wrench. J. F. Pontius. No. 951,025; Mar. 1; Sp. p. 1151; Gaz. vol. 152; p. 188.
Wrench. S. C. Clark. No. 951,056; Mar. 1; Sp. p. 1198; Gaz. vol. 152; p. 197.
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Wrench. G. Johnson. No. 951,398; Mar. 8; Sp. p. 1916; Gaz. vol. 152; p. 333.
Wrench. J. Sipos. No. 951,849; Mar. 15; Sp. p. 2827; Gaz. vol. 152; p. 515.
Wrench. G. A. McIntire. No. 952,079; Mar. 15; Sp. p. 3275; Gaz. vol. 152; p. 590.
Wrench. B. W. Woodward. No. 952,223; Mar. 15; Sp. p. 3555; Gaz. vol. 152; p. 639.
Wrench. H. Julich. No. 952,261; Mar. 15; Sp. p. 3626; Gaz. vol. 152; p. 651.
Wrench. H. and T. Hand. No. 952,327; Mar. 15; Sp. p. 3763; Gaz. vol. 152; p. 674.
Wrench. M. A. Shoop. No. 952,955; Mar. 22; Sp. p. 5102; Gaz. vol. 152; p. 916.
Wrench. J. Newbauer. No. 953,346; Mar. 29; Sp. p. 5957; Gaz. vol. 152; p. 1073.
Wrench. A. B. Carll. No. 953,515; Mar. 29; Sp. p. 6323; Gaz. vol. 152; p. 1133.
Wrench. E. G. Hamilton. No. 953,611; Mar. 29; Sp. p. 6526; Gaz. vol. 152; p. 1166.
Wrench. W. G. Royal. No. 954,213; Apr. 5; Sp. p. 1116; Gaz. vol. 153; p. 185.
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Wrench. H. Page. No. 954,335; Apr. 5; Sp. p. 1366; Gaz. vol. 153; p. 226.
Wrench. J. B. Irwin. No. 954,964; Apr. 12; Sp. p. 2780; Gaz. vol. 153; p. 471.
Wrench. W. O. and J. C. Singer. No. 955,004; Apr. 12; Sp. p. 2853; Gaz. vol. 153; p. 484.
Wrench. I. H. Flory. No. 955,781; Apr. 19; Sp. p. 4505; Gaz. vol. 153; p. 778.
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Wrench. J. R. Long. No. 955,974; Apr. 26; Sp. p. 4956; Gaz. vol. 153; p. 876.
Wrench. E. H. Gotshall. No. 956,074; Apr. 26; Sp. p. 5172; Gaz. vol. 153; p. 911.
Wrench. A. O. Semsmon. No. 956,197; Apr. 26; Sp. p. 5448; Gaz. vol. 153; p. 954.
Wrench. G. Bryar. No. 956,280; Apr. 26; Sp. p. 5624; Gaz. vol. 153; p. 981.
Wrench. S. D. and T. F. Ator. No. 956,924; May 3; Sp. p. 922; Gaz. vol. 154; p. 146.
Wrench. R. W. Armstrong. No. 957,726; May 10; Sp. p. 2594; Gaz. vol. 154; p. 449.
Wrench. L. C. Lawrence. No. 957,778; May 10; Sp. p. 2717; Gaz. vol. 154; p. 465.
Wrench. F. Schneider. No. 959,029; May 24; Sp. p. 5669; Gaz. vol. 154; p. 953.
Wrench. W. Ducharme. No. 959,322; May 24; Sp. p. 6278; Gaz. vol. 154; p. 1050.
Wrench. F. Hachmann. No. 959,931; May 31; Sp. p. 7585; Gaz. vol. 154; p. 1281.
Wrench. L. Panzer. No. 960,691; June 7; Sp. p. 925; Gaz. vol. 155; p. 153.
Wrench. H. Henricks. No. 961,296; June 14; Sp. p. 2160; Gaz. vol. 155; p. 386.
Wrench. A. C. Howe. No. 961,447; June 14; Sp. p. 2482; Gaz. vol. 155; p. 436.
Wrench. R. A. Montgomery. No. 961,515; June 14; Sp. p. 2628; Gaz. vol. 155; p. 458.
Wrench. G. E. Miller. No. 961,632; June 14; Sp. p. 2879; Gaz. vol. 155; p. 498.
Wrench. I. J. Basken. No. 961,673; June 14; Sp. p. 2959; Gaz. vol. 155; p. 511.
Wrench. R. H. Peters. No. 961,894; June 21; Sp. p. 3441; Gaz. vol. 155; p. 609.
Wrench. W. B. Brown. No. 962,304; June 21; Sp. p. 4337; Gaz. vol. 155; p. 749.
Wrench. J. A. Bledsoe. No. 962,738; June 28; Sp. p. 5286; Gaz. vol. 155; p. 923.
Wrench. B. Goodman. No. 963,287; July 5; Sp. p. 658; Gaz. vol. 156; p. 92.
Wrench. R. E. Harshell. No. 963,550; July 5; Sp. p. 1176; Gaz. vol. 156; p. 180.
Wrench. W. E. Elliott. No. 963,700; July 5; Sp. p. 1480; Gaz. vol. 156; p. 230.
Wrench. A. S. Steen. No. 964,067; July 12; Sp. p. 2289; Gaz. vol. 156; p. 377.
Wrench. F. Garpheide and W. Westerheide. No. 964,100; July 12; Sp. p. 2370; Gaz. vol. 156; p. 388.
Wrench. J. G. Portteus. No. 964,313; July 12; Sp. p. 2787; Gaz. vol. 156; p. 460.
Wrench. W. M. Potter. No. 964,314; July 12; Sp. p. 2788; Gaz. vol. 156; p. 460.
Wrench. G. H. Watson. No. 964,346; July 12; Sp. p. 2857; Gaz. vol. 156; p. 471.
Wrench. W. E. Paulson. No. 965,929; Aug. 2; Sp. p. 170; Gaz. vol. 157; p. 29.
Wrench. W. C. Schneider. No. 966,130; Aug. 2; Sp. p. 597; Gaz. vol. 157; p. 98.
Wrench. H. J. Munday. No. 966,698; Aug. 9; Sp. p. 1835; Gaz. vol. 157; p. 313.
Wrench. A. C. Clements. No. 966,888; Aug. 9; Sp. p. 2293; Gaz. vol. 157; p. 376.
Wrench. H. McDonald. No. 966,943; Aug. 9; Sp. p. 2397; Gaz. vol. 157; p. 394.
Wrench. D. M. Russell. No. 967,062; Aug. 9; Sp. p. 2647; Gaz. vol. 157; p. 435.
Wrench. M. G. Ewer. No. 967,355; Aug. 16; Sp. p. 3248; Gaz. vol. 157; p. 563.
Wrench. L. Kovatch. No. 967,788; Aug. 16; Sp. p. 4139; Gaz. vol. 157; p. 709.
Wrench. J. J. O. Dethlefs and W. Wisner. No. 967,889; Aug. 23; Sp. p. 4338; Gaz. vol. 157; p. 766.
Wrench. W. E. Golden. No. 967,899; Aug. 23; Sp. p. 4360; Gaz. vol. 157; p. 769.
Wrench. M. K. Olson. No. 967,962; Aug. 23; Sp. p. 4493; Gaz. vol. 157; p. 790.
Wrench. O. Zimmermann. No. 968,106; Aug. 23; Sp. p. 4830; Gaz. vol. 157; p. 839.
Wrench. T. H. Thorne. No. 968,816; Aug. 30; Sp. p. 6361; Gaz. vol. 157; p. 1109.
Wrench. W. E. Pearce. No. 968,970; Aug. 30; Sp. p. 6666; Gaz. vol. 157; p. 1161.
Wrench. F. A. Rademacher. No. 969,189; Sept. 6; Sp. p. 98; Gaz. vol. 158; p. 16.
Wrench. G. W. Jessup, Jr. No. 969,538; Sept. 6; Sp. p. 827; Gaz. vol. 158; p. 131.
Wrench. W. G. Keller. No. 969,880; Sept. 13; Sp. p. 1597; Gaz. vol. 158; p. 275.
Wrench. A. and B. W. Fresko. No. 970,209; Sept. 13; Sp. p. 2287; Gaz. vol. 158; p. 387.
Wrench. U. C. Greggs. No. 970,371; Sept. 13; Sp. p. 2618; Gaz. vol. 158; p. 441.
Wrench. O. Stenerson. No. 970,762; Sept. 20; Sp. p. 3485; Gaz. vol. 158; p. 597.
Wrench. P. M. Clark. No. 970,990; Sept. 20; Sp. p. 3933; Gaz. vol. 158; p. 672.
Wrench. F. A. Trahin. No. 971,325; Sept. 27; Sp. p. 4630; Gaz. vol. 158; p. 811.
Wrench. P. Bajusz and A. Kondás. No. 971,341; Sept. 27; Sp. p. 4668; Gaz. vol. 158; p. 816.
Wrench. J. Boulieu. No. 972,052; Oct. 4; Sp. p. 1182; Gaz. vol. 159; p. 199.
Wrench. C. A. De Vaul. No. 972,604; Oct. 11; Sp. p. 2391; Gaz. vol. 159; p. 408.
Wrench. H. H. Schlueter. No. 973,218; Oct. 18; Sp. p. 3788; Gaz. vol. 159; p. 647.
Wrench. W. W. Case. No. 974,121; Nov. 1; Sp. p. 27; Gaz. vol. 160; p. 8.
Wrench. J. Aasen. No. 974,331; Nov. 1; Sp. p. 581; Gaz. vol. 160; p. 86.
Wrench. J. A. Morris. No. 974,587; Nov. 1; Sp. p. 1172; Gaz. vol. 160; p. 178.
Wrench. J. A. Trambley. No. 974,725; Nov. 1; Sp. p. 1469; Gaz. vol. 160; p. 226.
Wrench. J. A. Trambley. No. 974,726; Nov. 1; Sp. p. 1470; Gaz. vol. 160; p. 226.
Wrench. M. C. Bersted. No. 974,772; Nov. 8; Sp. p. 1573; Gaz. vol. 160; p. 265.
Wrench. J. N. Shaw. No. 975,375; Nov. 8; Sp. p. 2915; Gaz. vol. 160; p. 470.
Wrench. J. H. Ferguson. No. 975,609; Nov. 15; Sp. p. 3410; Gaz. vol. 160; p. 578.

Alphabetical list of inventions—Continued.

Wrench. W. F. Bailey. No. 975,671; Nov. 15; Sp. p. 3564; Gaz. vol. 160; p. 599.
Wrench. D. K. Hill. No. 975,950; Nov. 15; Sp. p. 4109; Gaz. vol. 160; p. 694.
Wrench. E. R. Gilbert. No. 976,064; Nov. 15; Sp. p. 4314; Gaz. vol. 160; p. 732.
Wrench. T. O'Hare. No. 976,391; Nov. 22; Sp. p. 5125; Gaz. vol. 160; p. 869.
Wrench. S. A. Holman. No. 976,740; Nov. 22; Sp. p. 5827; Gaz. vol. 160; p. 987.
Wrench. P. Reilly. No. 978,208; Dec. 13; Sp. p. 1718; Gaz. vol. 161; p. 302.
Wrench. E. L. Brown. No. 978,688; Dec. 13; Sp. p. 2750; Gaz. vol. 161; p. 469.
Wrench. J. A. Overlander. No. 978,748; Dec. 13; Sp. p. 2883; Gaz. vol. 161; p. 488.
Wrench. J. F. Anderson. No. 978,827; Dec. 20; Sp. p. 3019; Gaz. vol. 161; p. 537.
Wrench. J. R. Davis. No. 978,856; Dec. 20; Sp. p. 3080; Gaz. vol. 161; p. 547.
Wrench. H. A. Morrill. No. 979,327; Dec. 20; Sp. p. 4141; Gaz. vol. 161; p. 713.
Wrench. J. C. Noll. No. 979,330; Dec. 20; Sp. p. 4145; Gaz. vol. 161; p. 714.
Wrench. H. D. Smith. No. 979,348; Dec. 20; Sp. p. 4171; Gaz. vol. 161; p. 719.
Wrench. A. E. Smiley. No. 979,805; Dec. 27; Sp. p. 5181; Gaz. vol. 161; p. 898.
Wrench attachment. O. H. Ford. No. 971,033; Sept. 27; Sp. p. 4036; Gaz. vol. 158; p. 715.
Wrench attachment, Monkey-. F. Fisher. No. 964,010; July 12; Sp. p. 2178; Gaz. vol. 156; p. 357.
Wrench, Bushed combination casing-. W. L. Dunn. No. 968,454; Aug. 23; Sp. p. 5560; Gaz. vol. 157; p. 959.
Wrench for screwing flanges or sockets on pipes. M. McLane. No. 949,711; Feb. 15; Sp. p. 4009; Gaz. vol. 151; p. 697.
Wrench handle, Pipe-. A. L. Moore. No. 949,731; Feb. 15; Sp. p. 4057; Gaz. vol. 151; p. 704.
Wrench structure. C. B. Grim. No. 959,056; May 24; Sp. p. 5725; Gaz. vol. 154; p. 962.
Wringer: *See* Clothes-wringer; Mop-wringer; Sponge-cloth wringer; Tobacco-wringer.
Wringer-base for laundry-tubs. P. J. Madden. No. 955,341; Apr. 19; Sp. p. 3557; Gaz. vol. 153; p. 629.
Wringer-roll. E. Bruegel. No. 949,564; Feb. 15; Sp. p. 3745; Gaz. vol. 151; p. 651.
Wrist-pin. S. B. Welcome. No. 968,213; Aug. 23; Sp. p. 5080; Gaz. vol. 157; p. 875.
Writing implement. A. H. Grantham. No. 979,843; Dec. 27; Sp. p. 5264; Gaz. vol. 161; p. 911.
Writing-machine. E. B. Hess. No. 946,359; Jan. 11; Sp. p. 2956; Gaz. vol. 150; p. 491.
Writing-machine. E. B. Hess. No. 948,973; Feb. 8; Sp. p. 2505; Gaz. vol. 151; p. 426.
Writing-machine. E. B. Hess. No. 958,497; May 17; Sp. p. 4556; Gaz. vol. 154; p. 747.
Writing-machine. E. B. Hess and J. M. Stoughton. No. 967,915; Aug. 23; Sp. p. 4399; Gaz. vol. 157; p. 775.
Writing-machine. E. B. Hess and J. M. Stoughton. No. 967,916; Aug. 23; Sp. p. 4402; Gaz. vol. 157; p. 775.
Writing-machine attachment. L. D. Camps. No. 955,846; Apr. 26; Sp. p. 4662; Gaz. vol. 153; p. 830.
Writing-machine, Automatic. G. P. Riggs. No. 972,920; Oct. 18; Sp. p. 3111; Gaz. vol. 159; p. 545.
Writing machine, Check-. G. M. Barker. No. 957,595; May 10; Sp. p. 2321; Gaz. vol. 154; p. 403.
Writing-machine cushion-key. H. M. Hay. No. 974,487; Nov. 1; Sp. p. 954; Gaz. vol. 160; p. 141.
Writing machine, Draft-. H. C. Hartley. No. 969,369; Sept. 6; Sp. p. 464; Gaz. vol. 158; p. 75.
Writing-machine for the use of the blind. A. Swindler. No. 977,237; Nov. 29; Sp. p. 6976; Gaz. vol. 160; p. 1186.
Writing-machine paper-adjusting device. A. Halász. No. 972,445; Oct. 11; Sp. p. 2002; Gaz. vol. 159; p. 352.
Writing-machines, Cushion-cap for the keys of. H. H. Shepard. No. 971,221; Sept. 27; Sp. p. 4442; Gaz. vol. 158; p. 778.
Writing-position adjuster. C. A. Faust. No. 945,026; Jan. 4; Sp. p. 32; Gaz. vol. 150; p. 8.
X-ray apparatus. A. Granger. No. 961,607; June 14; Sp. p. 2827; Gaz. vol. 155; p. 489.
X-ray apparatus. H. F. Waite. No. 967,469; Aug. 16; Sp. p. 3486; Gaz. vol. 157; p. 601.
X-ray negatives, Method and apparatus for marking. W. H. Merrill. No. 966,696; Aug. 9; Sp. p. 1833; Gaz. vol. 157; p. 313.
X-ray screen or shield. C. H. Myers. No. 965,533; July 26; Sp. p. 5491; Gaz. vol. 156; p. 935.
X-ray system. H. C. Snook. No 954,056; Apr 5; Sp. p. 744; Gaz. vol. 153; p. 130.
X-ray tube. H. Green. No. 958,488; May 17; Sp. p. 4541; Gaz. vol. 154; p. 744.
Xylophone-stand, Collapsible. C. B. Wanamaker. No. 967,471; Aug. 16; Sp. p. 3496; Gaz. vol. 157; p. 602.
Yarn and making same. J. G. Harrison. No. 961,441; June 14; Sp. p. 2470; Gaz. vol. 155; p. 434.
Yarn and the like, Apparatus for opening and separating threads of. J. Keith and W. W. Wardle. No. 957,610; May 10; Sp. p. 2350; Gaz. vol. 154; p. 409.
Yarn ball, Cylindrical. A. E. Rhoades. No. 954,344; Apr. 5; Sp. p. 1386; Gaz. vol. 153; p. 229.
Yarn-dressing machine. P. Turlur. No. 951,858; Mar. 15; Sp. p. 2844; Gaz. vol. 152; p. 518.
Yarn-moistening apparatus. P. Schilde. No. 955,001; Apr. 12; Sp. p. 2849; Gaz. vol. 153; p. 483.
Yarn or thread, Producing. I. E. Palmer. No. 952,757; Mar. 22; Sp. p. 4696; Gaz. vol. 152; p. 849.
Yarn-stripper. J. B. Bolton. No. 964,484; July 19; Sp. p. 3142; Gaz. vol. 156; p. 546.
Yarn tension device, Chain-. D. Lowe. No. 946,379; Jan. 11; Sp. p. 3100; Gaz. vol. 150; p. 498.
Yarn-waxing device. N. E. Kahn. No. 960,335; June 7; Sp. p. 199; Gaz. vol. 155; p. 34.
Yarns and fabrics by the special utilization of washed flax-waste, Manufacturing. E. Korselt and A. Thomas. No. 951,251; Mar. 8; Sp. p. 1588; Gaz. vol. 152; p. 284.
Yeast and spirit, Fermentation for use in manufacture of. D. Forster and P. Finitzer. No. 978,282; Dec. 13; Sp. p. 1880; Gaz. vol. 161; p. 329.
Yellow lake. E. Meckbach. No. 970,072; Sept. 13; Sp. p. 2010; Gaz. vol. 158; p. 341.
Yellow lake, New. E. Meckbach. No. 970,073; Sept. 13; Sp. p. 2011; Gaz. vol. 158; p. 341.
Yoke-attaching device, Wagon-tongue-. F. G. Mitchell. No. 970,254; Sept. 13; Sp. p. 2392; Gaz. vol. 158; p. 403.
Yoke, Carrying-. O. Knoerzer. No. 966,562; Aug. 9; Sp. p. 1575; Gaz. vol. 157; p. 268.
Yoke, Cattle-. C. T. Carleton. No. 977,928; Dec. 6; Sp. p. 1099; Gaz. vol. 161; p. 175.
Yoke center, Neck-. J. C. Wise. No. 951,038; Mar. 1; Sp. p. 1170; Gaz. vol. 152; p. 192.
Yoke center, Neck-. G. A. Lambert. No. 958,141; May 17; Sp. p. 3692; Gaz. vol. 154; p. 624.
Yoke center, Neck-. S. A. Steadman. No. 970,657; Sept. 20; Sp. p. 3249; Gaz. vol. 158; p. 560.
Yoke, Coupling-. J. A. Jackson. No. 946,603; Jan. 18; Sp. p. 3561; Gaz. vol. 150; p. 599.
Yoke, Detachable neck-. J. Barry, Jr. No. 957,179; May 10; Sp. p. 1463; Gaz. vol. 154; p. 261.
Yoke fastener, Neck-. A. P. Hoard. No. 945,783; Jan. 11; Sp. p. 1723; Gaz. vol. 150; p. 289.
Yoke for globe suspension. T. H. Costello. No. 945,379; Jan. 4; Sp. p. 813; Gaz. vol. 150; p. 126.
Yoke, Globe-. T. H. Costello. No. 945,378; Jan. 4; Sp. p. 812; Gaz. vol. 150; p. 125.
Yoke, Hog-. W. R. McCarroll. No. 974,901; Nov. 8; Sp. p. 1856; Gaz. vol. 160; p. 308.
Yoke holder, Neck-. H. E. Dey. No. 965,993; Aug. 2; Sp. p. 313; Gaz. vol. 157; p. 52.
Yoke, Neck-. J. Hullt. No. 953,620; Mar. 29; Sp. p. 6544; Gaz. vol. 152; p. 1169.
Yoke, Neck-. G. W. Frame. No. 956,634; May 3; Sp. p. 273; Gaz. vol. 154; p. 45.
Yoke, Neck-. D. F. Tanner. No. 964,134; July 12; Sp. p. 2436; Gaz. vol. 156; p. 400.
Yoke, Neck-. G. A. Bulles. No. 965,153; July 26; Sp. p. 4658; Gaz. vol. 156; p. 806.
Yoke, Neck-. J. N. Novotny. No. 968,393; Aug. 23; Sp. p. 5442; Gaz. vol. 157; p. 938.
Yoke, Neck-. D. C. Bowers. No. 974,115; Nov. 1; Sp. p. 19; Gaz. vol. 160; p. 6.
Yoke, Neck-. T. Sorensen. No. 977,482; Dec. 6; Sp. p. 125; Gaz. vol. 161; p. 21.
Yoke-tie for cattle. W. D. James. No. 949,768; Feb. 22; Sp. p. 4156; Gaz. vol. 151; p. 751.
Yokes and vehicle-tongues, Coupling for neck-. D. S. Dillenback. No. 970,996; Sept. 20; Sp. p. 3947; Gaz. vol. 158; p. 674.
Zeroising mechanism. A. J. Postans. No. 967,829; Aug. 16; Sp. p. 4223; Gaz. vol. 157; p. 722.
Zinc, Extraction of. C. S. Brand. No. 963,416; July 5; Sp. p. 913; Gaz. vol. 156; p. 135.
Zinc from zinkiferous materials, Obtaining. H. Pape. No. 948,740; Feb. 8; Sp. p. 2041; Gaz. vol. 151; p. 349.
Zinc, Manufacture of. O. Loiseau. No. 947,831; Feb. 1; Sp. p. 88; Gaz. vol. 151; p. 19.
Zinc ores by the precipitation process, Treatment of. A. Desgraz. No. 975,217; Nov. 8; Sp. p. 2590; Gaz. vol. 160; p. 418.
Zinc oxid, Apparatus for the production of. W. and H. Simm. No. 946,688; Jan. 18; Sp. p. 3747; Gaz. vol. 150; p. 626.
Zinc oxid for reduction, Preparation of. H. Pape. No. 947,399; Jan. 25; Sp. p. 5329; Gaz. vol. 150; p. 895.
Zinc oxid from zinc ores and products, Obtaining. W. Hommel and H. L. Sulman. No. 966,209; Aug. 2; Sp. p. 795; Gaz. vol. 157; p. 125.
Zinc pigments from liquors obtained from pyrites or pyrites-cinder and the like, Producing. J. H. Thwaites. No. 975,907; Nov. 15; Sp. p. 4024; Gaz. vol. 160; p. 679.
Zinc, Producing metallic. O. B. Dawson. No. 976,557; Nov. 22; Sp. p. 5481; Gaz. vol. 160; p. 926.
Zinkiferous substances, Treating. G. Mojana. No. 961,514; June 14; Sp. p. 2625; Gaz. vol. 155; p. 458.
Zither. J. Krienitz. No. 963,588; July 5; Sp. p. 1262; Gaz. vol. 156; p. 193.

ALPHABETICAL LIST OF DESIGNS.

Altar sick-call outfit. J. T. Homan. No. 40,429; Jan. 11; Gaz. vol. 150; p. 551.
Apron. M. A. and J. S. Mulligan. No. 40,967; Nov. 1; Gaz. vol. 160; p. 244.
Automobile-body. E. J. Gulick. No. 40,639; Apr. 12; Gaz. vol. 153; p. 527.
Automobile-body. E. Gruenfeldt. No. 40,681; May 3; Gaz. vol. 154; p. 236.
Automobile-body. E. L. Thomas. No. 40,757; July 5; Gaz. vol. 156; p. 244.
Automobile-body. E. Heyl. No. 40,922; Sept. 27; Gaz. vol. 158; p. 873.
Automobile-body. F. P. Stone. No. 41,061; Dec. 27; Gaz. vol. 161; p. 1029.
Automobiles. License-panel bracket-arm for. T. Harper. No. 40,984; Nov. 8; Gaz. vol. 160; p. 480.
Badge. M. A. Hudson. No. 40,455; Jan. 25; Gaz. vol. 150; p. 1023.
Badge. R. C. Thompson. No. 40,456; Jan. 25; Gaz. vol. 150; p. 1024.
Badge. T. F. Gaynor. No. 40,516; Feb. 22; Gaz. vol. 151; p. 992.
Badge. C. H. Stees. No. 40,573; Mar. 15; Gaz. vol. 152; p. 714.
Badge. J. De Freeze. No. 40,683; May 10; Gaz. vol. 154; p. 495.
Badge. R. C. Thompson. No. 40,720; June 7; Gaz. vol. 155; p. 287.
Badge. C. J. Dieges. No. 40,830; Aug. 23; Gaz. vol. 157; p. 984.
Badge. C. B. Pemberton. No. 40,951; Oct. 25; Gaz. vol. 159; p. 979.
Badge. A. Schickerling. No. 40,968; Nov. 8; Gaz. vol. 160; p. 477.
Badge or jewel. G. E. Nerney. No. 41,049; Dec. 20; Gaz. vol. 161; p. 737.
Badge or similar article. J. T. Bailey. No. 40,495; Feb. 8; Gaz. vol. 151; p. 431.
Badge or similar article. A. J. Moss. No. 40,560; Mar. 8; Gaz. vol. 152; p. 468.
Badge or similar article. J. Adler. No. 40,653; Apr. 26; Gaz. vol. 153; p. 1060.
Badge or similar article. J. J. Didcoct. No. 40,709; May 31; Gaz. vol. 154; p. 1390.
Badge or similar article. J. G. Hardy. No. 40,822; Aug. 16; Gaz. vol. 157; p. 738.
Badge, Puzzle-. W. B. Bliss. No. 40,914; Sept. 27; Gaz. vol. 158; p. 871.
Bag-frame. C. Hiering and A. Fuller. No. 40,648; Apr. 19; Gaz. vol. 153; p. 805.
Bandeau. E. C. Prevear. No. 40,759; July 12; Gaz. vol. 156; p. 516.
Bedspread. M. D'onofrio. No. 40,626; Apr. 12; Gaz. vol. 153; p. 524.
Bedstead-rail. O. R. Hunt. No. 40,847; Aug. 30; Gaz. vol. 157; p. 1226.
Bell and support therefor. M. S. Purple. No. 40,954; Oct. 25; Gaz. vol. 159; p. 979.
Bonnet. W. R. Blough. No. 40,957; Oct. 25; Gaz. vol. 159; p. 980.
Bookcase, writing-desk, and photo-displaying cabinet. M. Mickel. No. 40,436; Jan. 11; Gaz. vol. 150; p. 552.
Border-section. W. Mischler. No. 40,609; Apr. 5; Gaz. vol. 153; p. 255.
Bottle. S. Hochstadter. No. 40,426; Jan. 4; Gaz. vol. 150; p. 251.
Bottle. N. H. Patno. No. 40,500; Feb. 8; Gaz. vol. 151; p. 432.
Bottle. B. Hoff. No. 40,666; Apr. 26; Gaz. vol. 153; p. 1062.
Bowl, Sugar-. R. Haley. No. 41,034; Dec. 13; Gaz. vol. 161; p. 512.
Box. A. Müller. No. 40,506; Feb. 8; Gaz. vol. 151; p. 434.
Box-mat. R. Gair. No. 40,511; Feb. 15; Gaz. vol. 151; p. 714.
Box-mat. R. Gair. No. 40,827; Aug. 16; Gaz. vol. 157; p. 739.
Box-mat. R. Gair. Nos. 40,916–17; Sept. 27; Gaz. vol. 158; p. 872.
Box, Wooden. W. C. Estes. No. 40,467; Jan. 25; Gaz. vol. 150; p. 1025.
Boxes, Paper wing for. R. Gair. No. 40,478; Feb. 1; Gaz. vol. 151; p. 177.
Bracelet or similar article. J. Finburg. No. 40,581; Mar. 22; Gaz. vol. 152; p. 939.
Braid. F. Doebeli. No. 40,507; Feb. 8; Gaz. vol. 151; p. 434.
Brush-back and mirror. H. O. Bigney. No. 40,989; Nov. 15; Gaz. vol. 160; p. 760.
Brush, Clothes-. J. Webster. No. 40,789; July 26; Gaz. vol. 156; p. 1047.
Brushes or similar articles, Back for. G. L. Crowell. No. 40,841; Aug. 30; Gaz. vol. 157; p. 1225.
Brushes or similar articles, Back of. G. L. Turner. No. 40,970; Nov. 8; Gaz. vol. 160; p. 477.
Buckle. J. R. Smith. No. 40,697; May 17; Gaz. vol. 154; p. 820.
Buckle-shield. H. S. Kemp. No. 40,432; Jan. 11; Gaz. vol. 150; p. 551.
Button. A. S. Rollings. No. 40,705; May 24; Gaz. vol. 154; p. 1090.
Button. R. Liebmann. No. 40,829; Aug. 23; Gaz. vol. 157; p. 984.
Cabinet or similar article. C. N. Wheaton. No. 40,468; Jan. 25; Gaz. vol. 150; p. 1025.
Cabinet, Phonograph-. E. F. Pooley. Nos. 40,816–17; Aug. 9; Gaz. vol. 157; pp. 468–9.
Can. E. R. L. Thayer. No. 40,952; Oct. 25; Gaz. vol. 159; p. 979.
Can. E. R. L. Thayer. No. 41,028; Dec. 6; Gaz. vol. 161; p. 252.
Candlestick or similar article. E. A. Nielsen and F. C. Petersen. No. 40,778; July 19; Gaz. vol. 156; p. 778.
Card-case or similar article. E. R. Sheppard. No. 40,859; Sept. 6; Gaz. vol. 158; p. 212.
Cards, Back of playing-. J. A. Radcliffe. No. 40,575; Mar. 15; Gaz. vol. 152; p. 714.
Carpet. E. G. Sauer. No. 40,438; Jan. 11; Gaz. vol. 150; p. 552.
Carpet. W. M. Morton. Nos. 40,439–47; Jan. 11; Gaz. vol. 150; pp. 553–4.
Carpet. E. G. Sauer. No. 40,512; Feb. 15; Gaz. vol. 151; p. 714.
Carpet. J. Merry. No. 40,513; Feb. 15; Gaz. vol. 151; p. 714.
Carpet. W. M. Morton. No. 40,580; Mar. 15; Gaz. vol. 152; p. 715.
Carpet. J. H. Witzel. No. 40,629; Apr. 12; Gaz. vol. 153; p. 524.
Carpet. J. Merry. Nos. 40,649–52; Apr. 19; Gaz. vol. 153; p. 806.
Carpet. J. B. Moffat. No. 40,869; Sept. 6; Gaz. vol. 158; p. 214.
Carpet. W. M. Morton. Nos. 40,870–2; Sept. 6; Gaz. vol. 158; pp. 214–15.
Carpet. W. A. Elliott. No. 40,884; Sept. 13; Gaz. vol. 158; p. 470.
Carpet. W. A. Elliot. Nos. 40,940–1; Oct. 11; Gaz. vol. 159; p. 475.
Carpet. W. A. Elliot. No. 41,014; Nov. 29; Gaz. vol. 160; p. 1255.
Carpet. W. A. Spring. No. 41,015; Nov. 29; Gaz. vol. 160; p. 1255.
Carpet or rug. H. Ulmer. Nos. 40,627–8; Apr. 12; Gaz. vol. 153; p. 524.
Carton. L. Hirschfeld. No. 40,728; June 14; Gaz. vol. 155; p. 538.
Casket corner-plate, Burial-. P. R. Zinser. No. 40,779; July 19; Gaz. vol. 156; p. 778.
Casket-handle. P. R. Zinser. No. 40,811; Aug. 2; Gaz. vol. 157; p. 193.
Casket handle, Burial-. C. Blesch. Nos. 40,464–6; Jan. 25; 29; Gaz. vol. 152; p. 1190.
Casket handle, Burial-. C. Blesch. Nos. 40,595–7; Mar. Gaz. vol. 150; p. 1025.
Casket handle, Burial-. C. Blesch. No. 40,610; Apr. 5; Gaz. vol. 153; p. 255.
Casket handle, Burial-. C. Blesch. No. 40,791; July 26; Gaz. vol. 156; p. 1047.
Casket handle, Burial-. C. Blesch. No. 40,946; Oct. 18; Gaz. vol. 159; p. 734.
Casket handle, Burial-. C. Blesch. No. 41,030; Dec. 6; Gaz. vol. 161; p. 253.
Casket handle-plate. F. K. Allen. Nos 40,715–16; May 31; Gaz. vol. 154; p. 1391.
Casket handle-plate. F. K. Allen. No. 40,729; June 14; Gaz. vol. 155; p. 538.
Casket name-plate. F. K. Allen. No. 40,730; June 14; Gaz. vol. 155; p. 538.
Casket-trimming. W. E. Stevens. Nos. 40,792–3; July 26; Gaz. vol. 156; p. 1047.
Caskets, coffins, or similar articles, Name-block or saddle for. C. F. Wetmore. Nos. 40,532–4; Feb. 22; Gaz. vol. 151; p. 995.
Caskets or coffins, Lug for. P. R. Zinser. No. 40,758; July 5; Gaz. vol. 156; p. 244.
Caskets or coffins, Lug for. P. R. Zinser. No. 40,947; Oct. 18; Gaz. vol. 159; p. 734.
Ceiling-plate. H. Gothberg. No. 40,936; Oct. 11; Gaz. vol. 159; p. 474.
Centrifugal-machine frame. M. L. Hoyt. No. 41,009; Nov. 29; Gaz. vol. 160; p. 1254.

Alphabetical list of designs—Continued.

Chafing-dish stand. A. H. S. Swan. No. 40,823; Aug. 16; Gaz. vol. 157; p. 738.
Chafing-dishes, percolators, &c., Leg for. E. A. Gutermann. No. 40,522; Feb. 22; Gaz. vol. 151; p. 993.
Chains, Link for ornamental. O. B. Crossman. No. 40,775; July 19; Gaz. vol. 156; p. 777.
Chair. L. Killian. No. 40,469; Jan. 25; Gaz. vol. 150; p. 1026.
Chair. W. A. Voncanon. No. 40,588; Mar. 22; Gaz. vol. 152; p. 941.
Chair. W. T. Waters, Jr. No. 40,613; Apr. 5; Gaz. vol. 153; p. 255.
Chair. L. Killian. No. 41,012; Nov. 29; Gaz. vol. 160; p. 1254.
Chair, Barber's. E. E. Koken. No. 40,679; May 3; Gaz. vol. 154; p. 236.
Chandelier-trimming. H. Gothberg. No. 40,660; Apr. 26; Gaz. vol. 153; p. 1061.
Checkrein-holder. A. F. Dietz. No. 40,741; June 21; Gaz. vol. 155; p. 784.
Chocolate drop. A. Schopf. No. 40,615; Apr. 5; Gaz. vol. 153; p. 256.
Cigar-band. L. Ettlinger. No. 40,576; Mar. 15; Gaz. vol. 152; p. 714.
Cigar or cigarette holder. A. Q. Walsh. No. 40,677; May 3; Gaz. vol. 154; p. 235.
Cleaning apparatus, Casing for portable suction. I. K. Baxter and C. F. Barrett. No. 41,007; Nov. 29; Gaz. vol. 160; p. 1253.
Clock and hall stand. L. A. Breitinger. No. 40,921; Sept. 27; Gaz. vol. 158; p. 873.
Clock-case. J. M. Pease. No. 40,663; Apr. 26; Gaz. vol. 153; p. 1062.
Clock-frame. J. W. Holloway. No. 40,425; Jan. 4; Gaz. vol. 150; p. 251.
Clock-frame. J. W. Holloway. No. 40,502; Feb. 8; Gaz. vol. 151; p. 433.
Clock-frame. G. Cannata. No. 40,574; Mar. 15; Gaz. vol. 152; p. 714.
Clock or watch support. P. J. Shepard. No. 40,592; Mar. 29; Gaz. vol. 152; p. 1189.
Clocks, Handle for alarm-. C. P. Catlin. No. 40,972; Nov. 8; Gaz. vol. 160; p. 477.
Clothes-rack. C. D. Golden. Nos. 40,688–9; May 10; Gaz. vol. 154; pp. 496–7.
Coffee-counter. F. F. Wear. No. 40,896; Sept. 20; Gaz. vol. 158; p. 685.
Coffee-urn, chafing-dish, or similar article, Leg for a. E. A. Gutermann. No. 40,642; Apr. 19; Gaz. vol. 153; p. 805.
Coffins or caskets, Lug for. P. R. Zinser. No. 40,665; Apr. 26; Gaz. vol. 153; p. 1062.
Coin-holder and vinaigrette. S. O. Bigney. No. 40,858; Sept. 6; Gaz. vol. 158; p. 212.
Coupon, Trade-. C. A. Sweetland. No. 40,616; Apr. 5; Gaz. vol. 153; p. 256.
Crumb-scraper or similar article. A. H. S. Swan. No. 40,459; Jan. 25; Gaz. vol. 150; p. 1024.
Cuff-link or similar article. M. C. Meyer. No. 40,448; Jan. 18; Gaz. vol. 150; p. 809.
Curtain-pole. M. R. Ward. No. 40,571; Mar. 8; Gaz. vol. 152; p. 470.
Cut-glass dish. A. E. Meier. No. 40,671; May 3; Gaz. vol. 154; p. 234.
Desk. K. R. Dunton. No. 41,058; Dec. 27; Gaz. vol. 161; p. 1029.
Dish. P. R. Zinser. No. 40,753; July 5; Gaz. vol. 156; p. 243.
Dish. W. H. Krebs. No. 41,027; Dec. 6; Gaz. vol. 161; p. 252.
Dish, Covered. L. Rouquart. No. 40,643; Apr. 19; Gaz. vol. 153; p. 805.
Dish or similar article. H. Creange. No. 40,726; June 14; Gaz. vol. 155; p. 538.
Dish or similar article, Covered. C. Ziegler. No. 40,508; Feb. 15; Gaz. vol. 151; p. 713.
Dish or similar article, Covered. C. E. Haviland. No. 40,520; Feb. 22; Gaz. vol. 151; p. 992.
Dish or similar article, Covered. C. Ziegler. No. 40,551; Mar. 1; Gaz. vol. 152; p. 213.
Dish or similar article, Covered. H. Creange. No. 40,836; Aug. 23; Gaz. vol. 157; p. 986.
Display-cabinet. S. Bachrach. No. 40,762; July 12; Gaz. vol. 156; p. 516.
Display-rack. C. M. Owens. No. 40,612; Apr. 5; Gaz. vol. 153; p. 255.
Doily. R. Gair. Nos. 40,450–4; Jan. 18; Gaz. vol. 150; pp. 809–10.
Doily. R. Gair. Nos. 40,535–6; Feb. 22; Gaz. vol. 151; p. 995.
Doily. R. Gair. No. 40,798; July 26; Gaz. vol. 156; p. 1048.
Doily. R. Gair. No. 40,820; Aug. 9; Gaz. vol. 157; p. 469.
Doily. R. Gair. No. 40,879; Sept. 13; Gaz. vol. 158; p. 469.
Doily. R. Gair. No. 40,958; Oct. 25; Gaz. vol. 159; p. 980.
Doily. R. Gair. Nos. 41,020–1; Nov. 29; Gaz. vol. 160; p. 1256.
Doll. F. C. A. Richardson. No. 40,722; June 7; Gaz. vol. 155; p. 287.
Doll. H. F. Samstag. No. 40,986; Nov. 8; Gaz. vol. 160; p. 480.
Doll. D. T. Hails. No. 41,022; Nov. 29; Gaz. vol. 160; p. 1256.
Doll-pattern. F. A. Hays. No. 40,749; June 28; Gaz. vol. 155; p. 1026.
Drinking vessel. A Gredelue. Nos. 40,673–6; May 4; Gaz. vol. 154; pp. 234–5.
Drinking vessel. A. Gredelus. No. 40,999; Nov. 29; Gaz. vol. 160; p. 1251.
Edging, Woven. F. W. Oehrle. No. 40,647; Apr. 19; Gaz. vol. 153; p. 805.
Emblem. C. B. Hunkins. No. 40,517; Feb. 22; Gaz. vol. 151; p. 992.
Emblem. J. H. O'Neil. No. 40,561; Mar. 8; Gaz. vol. 152; p. 468.
Emblem. A. L. Westgard. No. 40,734; June 21; Gaz. vol. 155; p. 783.
Emblem. C. L. Thatcher. No. 40,932; Oct. 11; Gaz. vol. 159; p. 473.
Emblem. J. W. Lane. No. 40,996; Nov. 29; Gaz. vol. 160; p. 1251.
Emblem. N. Joseph. No. 41,023; Dec. 6; Gaz. vol. 161; p. 252.
Emblem. H. O. Bigney. No. 41,033; Dec. 13; Gaz. vol. 161; p. 512.
Emblem, Fraternal. G. E. Nerney. No. 41,024; Dec. 6; Gaz. vol. 161; p. 252.
Fabric. H. E. Schultz, Jr. No. 40,482; Feb. 1; Gaz. vol. 151; p. 177.
Fabric, Textile. J. Korzinek. Nos. 40,514–15; Feb. 15; Gaz. vol. 151; p. 714.
Fabric, Textile. D. E. Bonner. No. 40,691; May 10; Gaz. vol. 154; p. 497.
Fabric, Textile. E. W. Doughty. No. 40,781; July 19; Gaz. vol. 156; p. 778.
Fabric, Textile. A. Olson. No. 40,782; July 19; Gaz. vol. 156; p. 779.
Fabric, Textile. E. Sins. No. 40,839; Aug. 23; Gaz. vol. 157; p. 986.
Fabric, Textile. P. Mouton. Nos. 40,880–1; Sept. 13; Gaz. vol. 158; p. 469.
Fabric, Textile. E. Sins. No. 40,882; Sept. 13; Gaz. vol. 158; p. 469.
Fabric, Textile. S. L. Crownfield. No. 40,898; Sept. 20; Gaz. vol. 158; p. 686.
Fabric, Textile. R. Gattiker. Nos. 40,899–900; Sept. 20; Gaz. vol. 158; p. 686.
Fabric, Textile. P. Mouton. Nos. 40,901–4; Sept. 20; Gaz. vol. 158; p. 687.
Fabric, Textile. E. Sins. No. 40,905; Sept. 20; Gaz. vol. 158; p. 688.
Fabric, Textile. E. Sins. Nos. 40,937–8; Oct. 11; Gaz. vol. 159; p. 474.
Fabric, Textile. P. Dupont. No. 40,939; Oct. 11; Gaz. vol. 159; p. 474.
Fence fabric, Wire-. J. P. Arthur. No. 40,755; July 5; Gaz. vol. 156; p. 244.
Fireplace-frame. T. M. Dudgeon. No. 40,437; Jan. 11; Gaz. vol. 150; p. 552.
Flower-holder. R. Haley. No. 41,025; Dec. 6; Gaz. vol. 161; p. 252.
Fob and vinaigrette. S. O. Bigney. No. 40,987; Nov. 15; Gaz. vol. 160; p. 760.
Font, Dispensing-. J. M. Travis. No. 40,985; Nov. 8; Gaz. vol. 160; p. 480.
Fork. A. M. Latham. No. 40,670; May 3; Gaz. vol. 154; p. 234.
Fountain, Liquid-dispensing. F. W. Calvert. No. 40,558; Mar. 1; Gaz. vol. 152; p. 214.
Furniture-brace. A. Wanner, Jr. No. 40,572; Mar. 8; Gaz. vol. 152; p. 470.
Game-board. H. W. Allen and G. R. Meeker. No. 40,945; Oct. 18; Gaz. vol. 159; p. 734.
Game-board or similar article. G. N. Rock. No. 40,915; Sept. 27; Gaz. vol. 158; p. 871.
Garments, Ornament for. A. Ireland. No. 40,682; May 3; Gaz. vol. 154; p. 236.
Gimp. S. D. Wright. No. 40,724; June 7; Gaz. vol. 155; p. 287.
Glass, Decorative sheet-. C. S. Magon and W. W. Winchester. No. 40,794; July 26; Gaz. vol. 156; p. 1047.
Glass dish. S. Herbert. No. 40,807; Aug. 2; Gaz. vol. 157; p. 192.
Glass dish. T. C. Steimer. No. 40,990; Nov. 15; Gaz. vol. 160; p. 760.
Glass goblet or similar article. C. O. Northwood. Nos. 40,497–9; Feb. 8; Gaz. vol. 151; p. 432.
Glass goblet or similar article. C. O. Northwood. No. 40,876; Sept. 13; Gaz. vol. 158; p. 468.
Glass receptacle. A. J. Sanford. No. 40,460; Jan. 25; Gaz. vol. 150; p. 1024.
Glass, Sheet-. E. J. Walsh. Nos. 40,795–6; July 26; Gaz. vol. 156; p. 1048.
Glass, Sheet-. C. Jungers. No. 40,845; Aug. 30; Gaz. vol. 157; p. 1226.
Glass spindle. F. J. Van Doren. Nos. 40,523–5; Feb. 22; Gaz. vol. 151; p. 993.
Glass vessel. R. Haley. No. 40,591; Mar. 29; Gaz. vol. 152; p. 1189.

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Glass vessel. J. J. Heedy. No. 40,672; May 3; Gaz. vol. 154; p. 234.
Glass vessel. A. J. Sanford. No. 40,686; May 10; Gaz. vol. 154; p. 496.
Glass vessel. B. F. Davies. No. 40,742; June 28; Gaz. vol. 155; p. 1025.
Glass vessel. H. A. Silsbee. No. 40,760; July 12; Gaz. vol. 156; p. 516.
Glass vessel or similar article. H. P. Sinclaire. No. 40,603; Apr. 5; Gaz. vol. 153; p. 253.
Glass vessel or similar article. T. G. Hawkes. No. 41,000; Nov. 29; Gaz. vol. 160; p. 1251.
Goblet or similar article. J. H. Venon. No. 40,710; May 31; Gaz. vol. 154; p. 1390.
Hammock. H. Hohlfeld. No. 40,797; July 26; Gaz. vol. 156; p. 1048.
Hand-bag. I. J. Levy. No. 40,461; Jan. 25; Gaz. vol. 150; p. 1024.
Hand-bag. I. J. Levy. Nos. 40,565–6; Mar. 8; Gaz. vol. 152; p. 469.
Harness-spreader. C. H. Anderson. No. 40,569; Mar. 8; Gaz. vol. 152; p. 470.
Hat and coat hanger. D. F. Buchmiller and E. Schwarz. No. 41,006; Nov. 29; Gaz. vol. 160; p. 1253.
Hat and coat hook. W. J. Kirchner. No. 40,578; Mar. 15; Gaz. vol. 152; p. 715.
Hat-pin. H. W. Schwalb. No. 40,640; Apr. 19; Gaz. vol. 153; p. 804.
Hat-pin. S. O. Bigney. No. 40,885; Sept. 20; Gaz. vol. 158; p. 683.
Hat-pin holder. W. R. Noe, Jr. No. 40,449; Jan. 18; Gaz. vol. 150; p. 809.
Headlight. R. H. Welles. No. 40,844; Aug. 30; Gaz. vol. 157; p. 1226.
Headlight. R. H. Welles. No. 40,991; Nov. 15; Gaz. vol. 160; p. 760.
Headlight. R. H. Welles. No. 41,052; Dec. 20; Gaz. vol. 161; p. 738.
Heater-casing. G. H. Minier and T. Lowe. Nos. 40,979–81; Nov. 8; Gaz. vol. 160; p. 479.
Hinge-leaf. W. H. Hart. No. 40,594; Mar. 29; Gaz. vol. 152; p. 1190.
Horn. V. Pascucci. No. 40,698; May 17; Gaz. vol. 154; p. 821.
Ice-cream cornucopia. B. Rea. No. 40,739; June 21; Gaz. vol. 155; p. 784.
Indicator-dial. R. L. Williams. No. 40,662; Apr. 26; Gaz. vol. 153; p. 1061.
Ink-well. R. Keller. No. 40,777; July 19; Gaz. vol. 156; p. 777.
Inkstand. C. H. Numan. No. 40,582; Mar. 22; Gaz. vol. 152; p. 939.
Jar. A. J. Sanford. No. 40,837; Aug. 23; Gaz. vol. 157; p. 986.
Jar. E. R. L. Thayer. No. 40,953; Oct. 25; Gaz. vol. 159; p. 979.
Jar. D. C. Ripley and C. E. Schmunk. Nos. 41,001–2; Nov. 29; Gaz. vol. 160; p. 1252.
Jewel-setting for finger-rings or similar articles. M. C. Meyer. No. 40,702; May 24; Gaz. vol. 154; p. 1089.
Jewelry ornament. H. W. Fishel. Nos. 40,886–9; Sept. 20; Gaz. vol. 158; pp. 683–4.
Jewelry ornament. H. W. Fishel. No. 40,988; Nov. 15; Gaz. vol. 160; p. 760.
Jug. E. W. Gaube. No. 40,815; Aug. 9; Gaz. vol. 157; p. 468.
Knife and fork holder. C. Myland. No. 40,746; June 28; Gaz. vol. 155; p. 1026.
Knife handle, Pocket-. R. C. vom Cleff. No. 40,998; Nov. 29; Gaz. vol. 160; p. 1251.
Label. W. M. Updegrave. No. 40,577; Mar. 15; Gaz. vol. 152; p. 715.
Label-blank. S. Cohn. Nos. 40,433–4; Jan. 11; Gaz. vol. 150; p. 552.
Label-blank. G. Hochstadter. No. 40,435; Jan. 11; Gaz. vol. 150; p. 552.
Label-blank. S. Cohn. Nos. 40,530–1; Feb. 22; Gaz. vol. 151; pp. 994–5.
Label-blank. W. C. Henderson. No. 40,568; Mar. 8; Gaz. vol. 152; p. 469.
Label-blank. H. Furste. No. 40,959; Nov. 1; Gaz. vol. 160; p. 243.
Lace edging. W. E. Keach. No. 40,828; Aug. 16; Gaz. vol. 157; p. 739.
Lace, Levers. C. W. Birkin. Nos. 41,016–19; Nov. 29; Gaz. vol. 160; pp. 1255–6.
Lace-paper mat. W. W. Bevan. Nos. 40,707–8; May 24; Gaz. vol. 154; p. 1090.
Lamp. P. Q. Wray. No. 40,738; June 21; Gaz. vol. 155; p. 784.
Lamp. N. Blount. No. 41,004; Nov. 29; Gaz. vol. 160; p. 1252.
Lamp, Automobile-. H. Futterman. No. 40,463; Jan. 25; Gaz. vol. 150; p. 1025.
Lamp, Automobile-. B. V. Seevers. No. 40,808; Aug. 2; Gaz. vol. 157; p. 193.
Lamp, Automobile-. F. S. Stafford. No. 40,955; Oct. 25; Gaz. vol. 159; p. 979.
Lamp, Candle-. P. Ebeling. No. 40,462; Jan. 25; Gaz. vol. 150; p. 1024.
Lamp-casing. W. H. Gardiner. No. 40,995; Nov. 22; Gaz. vol. 160; p. 1014.
Lamp casing, Gas-. J. Lederer. No. 40,585; Mar. 22; Gaz. vol. 152; p. 940.
Lamp-post. J. D. Ross. No. 40,809; Aug. 2; Gaz. vol. 157; p. 193.
Lamp-post. W. W. Bosworth. No. 40,826; Aug. 16; Gaz. vol. 157; p. 739.
Lamp-shade. H. S. Evans. Nos. 40,553–5; Mar. 1; Gaz. vol. 152; p. 213.
Lamp-shade. L. W. Young. Nos. 40,556–7; Mar. 1; Gaz. vol. 152; p. 214.
Lamp-shade. J. Kappler. No. 40,624; Apr. 12; Gaz. vol. 153; p. 523.
Lamp-shade. H. McAfee. No. 40,712; May 31; Gaz. vol. 154; p. 1391.
Lamp-shade. P. J. Handel. No. 40,721; June 7; Gaz. vol. 155; p. 287.
Lamp-shade. H. A. Schnelbach. No. 40,893; Sept. 20; Gaz. vol. 158; p. 685.
Lamp-shade. H. A. Schnelbach. No. 41,005; Nov. 29; Gaz. vol. 160; p. 1253.
Lamp-shade. H. A. Schnelbach. No. 41,035; Dec. 13; Gaz. vol. 161; p. 512.
Lamp shade and reflector. J. Kappler. No. 40,503; Feb. 8; Gaz. vol. 151; p. 433.
Lamp shade or reflector. J. Kappler. Nos. 40,605–6; Apr. 5; Gaz. vol. 153; p. 254.
Lamp shade or reflector. J. Kappler. No. 40,645; Apr. 19; Gaz. vol. 153; p. 805.
Lamp shade or reflector. J. Kappler. No. 40,727; June 14; Gaz. vol. 155; p. 538.
Lamp shade or reflector. J. Kappler. Nos. 40,919–20; Sept. 27; Gaz. vol. 158; p. 872.
Lamp-stand. C. Hatfield. No. 40,604; Apr. 5; Gaz. vol. 153; p. 254.
Lamp, Street-. L. C. Tarras. Nos. 40,509–10; Feb. 15; Gaz. vol. 151; pp. 713–14.
Lamp, Street-. B. D. Munhall. No. 40,737; June 21; Gaz. vol. 155; p. 784.
Lamp-support or similar article. J. Mitchell. No. 40,646; Apr. 19; Gaz. vol. 153; p. 805.
Lamp, Vehicle-. R. H. Welles. No. 40,747; June 28; Gaz. vol. 155; p. 1026.
Lamp, Vehicle-. H. M. Dawley. No. 40,761; July 12; Gaz. vol. 156; p. 516.
Lavatory. J. S. Rowe. No. 41,059; Dec. 27; Gaz. vol. 161; p. 1029.
Lavatory-pedestal. J. H. Danver. No. 41,037; Dec. 13; Gaz. vol. 161; p. 512.
Leather. S. D. Brightman. No. 40,843; Aug. 30; Gaz. vol. 157; p. 1225.
Letter-head. C. P. Bruch. No. 40,529; Feb. 22; Gaz. vol. 151; p. 994.
Lifting-jack standard and casing. E. K. Conover. No. 40,874; Sept. 6; Gaz. vol. 158; p. 215.
Light-shade. A. J. Sanford. No. 40,427; Jan. 4; Gaz. vol. 150; p. 251.
Light-shade. A. J. Sanford. Nos. 40,473–6; Jan. 25; Gaz. vol. 150; p. 1027.
Light-shade. A. J. Sanford. No. 40,479; Feb. 1; Gaz. vol. 151; p. 177.
Light-shade. A. J. Sanford. Nos. 40,943–4; Oct. 18; Gaz. vol. 159; p. 733.
Light-shade. A. J. Sanford. No. 40,978; Nov. 8; Gaz. vol. 160; p. 479.
Light shade, Artificial-. K. Booth. No. 40,526; Feb. 22; Gaz. vol. 151; p. 994.
Light shade, Artificial-. K. Booth. No. 40,625; Apr. 12; Gaz. vol. 153; p. 523.
Light shade, Artificial-. M. W. Gleason. Nos. 40,656–7; Apr. 26; Gaz. vol. 153; pp. 1060–1.
Light shade, Artificial-. P. Schilling. No. 40,658; Apr. 26; Gaz. vol. 153; p. 1061.
Light shade, Artificial-. C. E. Perring. No. 40,706; May 24; Gaz. vol. 154; p. 1090.
Light shade, Artificial-. K. Booth. Nos. 40,824–5; Aug. 16; Gaz. vol. 157; p. 738.
Light shade, Artificial-. K. Booth. Nos. 40,891–2; Sept. 20; Gaz. vol. 158; p. 684.
Lobster-cracker. P. J. Zehnder. No. 40,611; Apr. 5; Gaz. vol. 153; p. 255.
Locket and vinaigrette. S. O. Bigney. No. 40,873; Sept. 6; Gaz. vol. 158; p. 215.
Mat. A. Henderson. No. 41,013; Nov. 29; Gaz. vol. 160; p. 1255.
Match-holder. I. L. Hall. No. 40,477; Feb. 1; Gaz. vol. 151; p. 176.
Medal. E. Mullan. No. 40,821; Aug. 16; Gaz. vol. 157; p. 738.
Medal or similar article. H. W. Shepard. No. 40,969; Nov. 8; Gaz. vol. 160; p. 477.
Mirror or similar article. S. B. Beach. No. 40,472; Jan. 25; Gaz. vol. 150; p. 1026.
Mirrors, brushes, or similar toilet articles, Back for. G. H. Berry. Nos. 40,803–5; Aug. 2; Gaz. vol. 157; p. 192.
Mirrors, brushes, or similar toilet articles, Back for. G. H. Berry. Nos. 40,960–1; Nov. 1; Gaz. vol. 160; p. 243.

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Mirrors, pictures, or similar articles, Frame for. J. R. Foster. No. 41,003; Nov. 29; Gaz. vol. 160; p. 1252.
Molasses-pitcher. A. J. Sanford. Nos. 40,600–1; Apr. 5; Gaz. vol. 153; p. 253.
Monument. E. O. Townsend. No. 41,062; Dec. 27; Gaz. vol. 161; p. 1029.
Muff. J. Karpeles. No. 40,918; Sept. 27; Gaz. vol. 158; p. 872.
Musical-instrument body, Stringed-. A. Shutt. No. 40,564; Mar. 8; Gaz. vol. 152; p. 468.
Musical-instrument pedal. H. Sandner. No. 40,935; Oct. 11; Gaz. vol. 159; p. 474.
Neckscarf or muffler. S. S. Sampliner. Nos. 41,031–2; Dec. 6; Gaz. vol. 161; p. 253.
Paper or similar fabric, Wall-. V. R. Haskins. No. 40,723; June 7; Gaz. vol. 155; p. 287.
Paper, Wall-. H. W. Wild. Nos. 40,483–94; Feb. 1; Gaz. vol. 151; pp. 177–9.
Paper, Wall-. R. Griffin. No. 40,819; Aug. 9; Gaz. vol. 157; p. 469.
Paper-weight. C. F. Sauereisen. No. 40,583; Mar. 22; Gaz. vol. 152; p. 939.
Paper, Wrapping-. D. C. Everest. No. 40,992; Nov. 15; Gaz. vol. 160; p. 761.
Percolator-cover. C. F. Smith. No. 40,934; Oct. 11; Gaz. vol. 159; p. 474.
Perfume atomizer-tube. T. A. De Vilbiss. No. 40,790; July 26; Gaz. vol. 156; p. 1047.
Pen-rack and paper-clip holder. W. H. Paige. No. 41,026; Dec. 6; Gaz. vol. 161; p. 252.
Phonograph-cabinet. T. A. Edison. No. 40,527; Feb. 22; Gaz. vol. 151; p. 994.
Piano-case. A. C. Abramson. No. 40,678; May 3; Gaz. vol. 154; p. 235.
Piano-casing. T. P. Brown. No. 40,559; Mar. 1; Gaz. vol. 152; p. 214.
Piano casing, Player-. S. W. Wirts. No. 40,504; Feb. 8; Gaz. vol. 151; p. 433.
Piano fall-board. C. L. Peters. No. 40,587; Mar. 22; Gaz. vol. 152; p. 940.
Picture-frame. C. A. Carlson. No. 40,552; Mar. 1; Gaz. vol. 152; p. 213.
Picture-frame. M. Jankiewitz. No. 40,806; Aug. 2; Gaz. vol. 157; p. 192.
Picture-frame. G. I. Silbert and C. E. Carlson. No. 40,877; Sept. 13; Gaz. vol. 158; p. 468.
Picture-mount. E. A. Evans. Nos. 40,974–7; Nov. 8; Gaz. vol. 160; p. 478.
Pictures, mirrors, or similar articles, Frame for. J. R. Foster. No. 40,994; Nov. 22; Gaz. vol. 160; p. 1014.
Pincushion. G. Milligan. No. 40,965; Nov. 1; Gaz. vol. 160; p. 244.
Plaiting. E. M. Hacker. Nos. 41,047–8; Dec. 13; Gaz. vol. 161; p. 514.
Plaque. A. G. Spalding. Nos. 40,834–5; Aug. 23; Gaz. vol. 157; p. 985.
Plate. E. Ross. No. 40,602; Apr. 5; Gaz. vol. 153; p. 253.
Plate, China. C. J. Ahrenfeldt. No. 40,860; Sept. 6; Gaz. vol. 158; p. 212.
Plate or similar article. C. Kühnl. No. 40,501; Feb. 8; Gaz. vol. 151; p. 433.
Plate or similar article. J. H. Venon. No. 40,711; May 31; Gaz. vol. 154; p. 1390.
Plate or similar article. J. E. Goodwin. No. 40,736; June 21; Gaz. vol. 155; p. 783.
Plate or similar article. J. H. Venon. Nos. 40,743–4; June 28; Gaz. vol. 155; pp. 1025–6.
Plate or similar article. A. A. Blankenmeister. No. 40,963; Nov. 1; Gaz. vol. 160; p. 244.
Plate or similar article. J. J. Miller. No. 40,973; Nov 8; Gaz. vol. 160; p. 477.
Plate or similar article. J. W. Wadsworth. No. 41,051; Dec. 20; Gaz. vol. 161; p. 737.
Platter. W. E. Graves. No. 40,521; Feb. 22; Gaz. vol. 151; p. 993.
Pneumatic-cleaning-machine casing. C. E. Harker. No. 40,848; Aug. 30; Gaz. vol. 157; p. 1226.
Pneumatic-cleaning-machine casing. A. J. Stecker. No. 40,982; Nov. 8; Gaz. vol. 160; p. 479.
Pocket-book. G. E. Avery. No. 40,518; Feb. 22; Gaz. vol. 151; p. 992.
Post-card. F. S. Ritter. No. 40,754; July 5; Gaz. vol. 156; p. 243.
Post for furniture or similar articles. P. Pilon. No. 40,983; Nov. 8; Gaz. vol. 160; p. 480.
Prescription-case. C. F. Kurz. No. 40,700; May 17; Gaz. vol. 154; p. 821.
Pump casing, Air-. W. L. Root. No. 40,579; Mar. 15; Gaz. vol. 152; p. 715.
Railing-block. D. B. Luten. No. 40,667; Apr. 26; Gaz. vol. 153; p. 1062.
Range, Gas-. G. M. Koke. No. 40,701; May 17; Gaz. vol. 154; p. 821.
Range, Gas and coal. G. A. Tinnerman. No. 40,638; Apr. 12; Gaz. vol. 153; p. 527.
Reflector. C. H. Sharp. No. 40,644; Apr. 19; Gaz. vol. 153; p. 805.
Reflector or similar article. O. H. Mygatt. No. 40,623; Apr. 12; Gaz. vol. 153; p. 523.
Reflector or similar article. W. A. Dorey. No. 41,029; Dec. 6; Gaz. vol. 161; p. 253.
Refrigerator. H. Silver. No. 40,528; Feb. 22; Gaz. vol. 151; p. 994.
Refrigerator. J. Colonel. No. 40,838; Aug. 23; Gaz. vol. 157; p. 986.
Ring. L. A. Larson. No. 40,928; Oct. 4; Gaz. vol. 159; p. 229.
Rosette, Illuminated. L. Gudeman. No. 40,740; June 21; Gaz. vol. 155; p. 784.
Rubber binding for matting ends or similar articles. C. H. Oakley. No. 40,863; Sept. 6; Gaz. vol. 158; p. 213.
Rubber hose. W. F. Bowers. No. 40,763; July 12; Gaz. vol. 156; p. 517.
Rug. C. L. Fetterly. No. 40,470; Jan. 25; Gaz. vol. 150; p. 1026.
Rug. J. Merry. No. 40,471; Jan. 25; Gaz. vol. 150; p. 1026.
Rug. F. A. Haas. No. 40,537; Feb. 22; Gaz. vol. 151; p. 996.
Rug. W. A. Perry. No. 40,538; Feb. 22; Gaz. vol. 151; p. 996.
Rug. J. H. Witzel. Nos. 40,539–40; Feb. 22; Gaz. vol. 151; p. 996.
Rug. W. A. Spring. Nos. 40,541–4; Feb. 22; Gaz. vol. 151; p. 997.
Rug. W. G. Reith. No. 40,545; Feb. 22; Gaz. vol. 151; p. 998.
Rug. A. Petzold. No. 40,546; Feb. 22; Gaz. vol. 151; p. 998.
Rug. J. H. Witzel. Nos. 40,630–3; Apr. 12; Gaz. vol. 153; p. 525.
Rug. W. A. Spring. Nos. 40,634–6; Apr. 12; Gaz. vol. 153; p. 526.
Rug. W. G. Reith. No. 40,637; Apr. 12; Gaz. vol. 153; p. 527.
Rug. A. Petzold. No. 40,692; May 10; Gaz. vol. 154; p. 497.
Rug. A. Petzold. No. 40,719; May 31; Gaz. vol. 154; p. 1392.
Rug. E. G. Sauer. Nos. 40,765–7; July 12; Gaz. vol. 156; pp. 517–18.
Rug. A. Petzold. Nos. 40,768–74; July 12; Gaz. vol. 156; pp. 518–19.
Rug. A. Petzold. Nos. 40,783–5; July 19; Gaz. vol. 156; p. 779.
Rug. J. Merry. Nos. 40,786–7; July 19; Gaz. vol. 156; p. 779.
Rug. J. Merry. No. 40,799; July 26; Gaz. vol. 156; p. 1049.
Rug. E. G. Sauer. Nos. 40,800–2; July 26; Gaz. vol. 156; p. 1049.
Rug. W. A. Spring. Nos. 40,849–51; Aug. 30; Gaz. vol. 157; p. 1227.
Rug. W. G. Reith. Nos. 40,852–3; Aug. 30; Gaz. vol. 157; pp. 1227–8.
Rug. F. Schindler. No. 40,854; Aug. 30; Gaz. vol. 157; p. 1228.
Rug. J. Merry. No. 40,855; Aug. 30; Gaz. vol. 157; p. 1228.
Rug. J. H. Witzel. No. 40,856; Aug. 30; Gaz. vol. 157; p. 1228.
Rug. C. Forrester. No. 40,864; Sept. 6; Gaz. vol. 158; p. 213.
Rug. W. G. Reith. No. 40,865; Sept. 6; Gaz. vol. 158; p. 213.
Rug. E. G. Sauer. No. 40,866; Sept. 6; Gaz. vol. 158; p. 213.
Rug. W. A. Spring. No. 40,867; Sept. 6; Gaz. vol. 158; p. 214.
Rug. J. H. Witzel. No. 40,868; Sept. 6; Gaz. vol. 158; p. 214.
Rug. W. A. Spring. No. 40,883; Sept. 13; Gaz. vol. 158; p. 470.
Rug. J. Merry. Nos. 40,906–7; Sept. 20; Gaz. vol. 158; p. 688.
Rug. W. G. Reith. Nos. 40,908–9; Sept. 20; Gaz. vol. 158; p. 688.
Rug. W. A. Spring. Nos. 40,910–11; Sept. 20; Gaz. vol. 158; p. 689.
Rug. J. H. Witzel. Nos. 40,912–13; Sept. 20; Gaz. vol. 158; p. 689.
Rug. E. G. Sauer. No. 40,926; Sept. 27; Gaz. vol. 158; p. 874.
Rug. J. Spring. No. 40,927; Sept. 27; Gaz. vol. 158; p. 874.
Rug. E. H. Hill. No. 40,993; Nov. 15; Gaz. vol. 160; p. 761.
Rug. A. Petzold. Nos. 41,039–46; Dec. 13; Gaz. vol. 161; pp. 513–14.
Ruler. J. W. Guillott. No. 40,812; Aug. 2; Gaz. vol. 157; p. 193.
Scale housing, Computing-. A. De Vilbiss, Jr. No. 40,593; Mar. 29; Gaz. vol. 152; p. 1190.
Sewing-stand. L. B. Laridon. No. 40,861; Sept. 6; Gaz. vol. 158; p. 212.
Shade. H. McAfee. No. 40,895; Sept. 20; Gaz. vol. 158; p. 685.
Shade or reflector or similar article. O. A. Mygatt. No. 40,659; Apr. 26; Gaz. vol. 153; p. 1061.
Shade or similar article for artificial lights. O. A. Mygatt. No. 40,607; Apr. 5; Gaz. vol. 153; p. 254.

Alphabetical list of designs—Continued.

Shade, reflector, or similar article. O. A. Mygatt. Nos. 40,713–14; May 31; Gaz. vol. 154; p. 1391.
Shade-roller and curtain-pole bracket. F. F. Wright and H. M. Kell. No. 40,481; Feb. 1; Gaz. vol. 151; p. 177.
Shade-roller bracket. C. S. Keeble and R. B. Wakeley. No. 41,036; Dec. 13; Gaz. vol. 161; p. 512.
Shaving-set holder. A. Pujols. No. 40,622; Apr. 12; Gaz. vol. 153; p. 523.
Sheet-metal plate. L. Loeffler. No. 40,608; Apr. 5; Gaz. vol. 153; p. 254.
Show-case. F. F. Wear. No. 40,818; Aug 9; Gaz. vol. 157; p. 469.
Shrine. F. H. McCann. No. 40,857; Sept. 6; Gaz. vol. 158; p. 212.
Sign-board. F. Cestero. No. 40,956; Oct. 25; Gaz. vol. 159; p. 979.
Sign-plate. M. McClarence and L. B. Thurlow. No. 40,480; Feb. 1; Gaz. vol. 151; p. 177.
Spoon. G. Strohhaker. No. 40,684; May 10; Gaz. vol. 154; p. 496.
Spoon. J. Clulee. No. 40,703; May 24; Gaz. vol. 154; p. 1090.
Spoon, fork, or similar article. G. Strohhaker. No. 40,424; Jan. 4; Gaz. vol. 150; p. 251.
Spoon, fork, or similar article. L. A. Brown. No. 40,430; Jan. 11; Gaz. vol. 150; p. 551.
Spoon, fork, or similar article. W. A. Jameson. No. 40,458; Jan. 25; Gaz. vol. 150; p. 1024.
Spoon, fork, or similar article. H. Hillbom. No. 40,549; Mar. 1; Gaz. vol. 152; p. 212.
Spoon, fork, or similar article. J. R. Dean. No. 40,599; Apr. 5; Gaz. vol. 153; p. 253.
Spoon, fork, or similar article. H. Hillbom. No. 40,619; Apr. 12; Gaz. vol. 153; p. 522.
Spoon, fork, or similar article. F. E. Pretat. No. 40,620; Apr. 12; Gaz. vol. 153; p. 522.
Spoon, fork, or similar article. R. R. Kintz. No. 40,704; May 24; Gaz. vol. 154; p. 1090.
Spoon, fork, or similar article. J. R. Dean. No. 40,735; June 21; Gaz. vol. 155; p. 783.
Spoon, fork, or similar article. L. A. Brown. No. 40,776; July 19; Gaz. vol. 156; p. 777.
Spoon, fork, or similar article. M. A. Anzelewitz. No. 40,814; Aug. 9; Gaz. vol. 157; p. 468.
Spoon, fork, or similar article. G. L. Crowell, Jr. Nos. 40,832–3; Aug. 23; Gaz. vol. 157; p. 985.
Spoon, fork, or similar article. J. R. Dean. No. 40,890; Sept. 20; Gaz. vol. 158; p. 684.
Spoon, fork, or similar article. G. Strohhaker. No. 40,997; Nov. 29; Gaz. vol. 160; p. 1251.
Spoon, fork, or similar article, Handle of. W. C. Codman. No. 40,548; Feb. 22; Gaz. vol. 151; p. 998.
Spoon, Olive-. M. Burgunder. No. 40,696; May 17; Gaz. vol. 154; p. 820.
Spoon or fork. A. C. Miller. No. 40,496; Feb. 8; Gaz. vol. 151; p. 431.
Spoon or similar article. W. A. Jameson. No. 40,550; Mar. 1; Gaz. vol. 152; p. 212.
Spoon or similar article. W. A. Jameson. Nos. 41,054–7; Dec. 27; Gaz. vol. 161; p. 1028.
Spoons, forks, and similar articles, Handle for. C. Osborne. No. 40,669; May 3; Gaz. vol. 154; p. 233.
Spoons, forks, or similar articles, Handle for. F. Habensack. No. 40,431; Jan. 11; Gaz. vol. 150; p. 551.
Spoons, forks, or similar articles, Handle for. W. C. Bowlen. No. 40,641; Apr. 19; Gaz. vol. 153; p. 804.
Spoons, forks, or similar articles, Handle for. G. F. Kolb. Nos. 40,654–5; Apr. 26; Gaz. vol. 153; p. 1060.
Spoons, forks, or similar articles, Handle for. W. C. Codman. No. 40,685; May 10; Gaz. vol. 154; p. 496.
Spoons, forks, or similar articles, Handle for. C. Osborne. No. 40,745; June 28; Gaz. vol. 155; p. 1026.
Spoons, forks, or similar articles, Handle for. G. C. Lunt. No. 40,788; July 26; Gaz. vol. 156; p. 1046.
Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 40,840; Aug. 30; Gaz. vol. 157; p. 1225.
Spoons, forks, or similar articles, Handle for. T. B. Lasher. No. 40,933; Oct. 11; Gaz. vol. 159; p. 473.
Spoons, forks, or similar articles, Handle for. B. P. Jenks. No. 40,971; Nov. 8; Gaz. vol. 160; p. 477.
Spoons, forks, or similar articles, Handle of. W. C. Codman. No. 40,519; Feb. 22; Gaz. vol. 151; p. 992.
Stamp. A. Neuwohner. No. 40,875; Sept. 13; Gaz. vol. 158; p. 468.
Statuette. G. McManus. No. 40,457; Jan. 25; Gaz. vol. 150; p. 1024.
Statuette. E. T. Richards. No. 40,621; Apr. 12; Gaz. vol. 153; p. 523.
Statuette. C. W. Diehl. No. 41,050; Dec. 20; Gaz. vol. 161; p. 737.
Steam separator-casing, Exhaust-. J. W. Gamble. No. 41,060; Dec. 27; Gaz. vol. 161; p. 1029.
Stone, Cut. E. G. H. Schenck. No. 40,693; May 17; Gaz. vol. 154; p. 820.
Stove. J. Becvar. No. 40,505; Feb. 8; Gaz. vol. 151; p. 433.
Stove. T. R. Kennedy and E. J. King. No. 40,614; Apr. 5; Gaz. vol. 153; p. 255.
Stove. W. L. Bertram. Nos. 40,732–3; June 14; Gaz. vol. 155; p. 539.
Stove. G. W. Cope and W. L. Bertram. No. 40,810; Aug. 2; Gaz. vol. 157; p. 193.
Stove. S. P. Landcraft. No. 40,897; Sept. 20; Gaz. vol. 158; p. 686.
Stove. S. P. Landcraft. No. 40,923; Sept. 27; Gaz. vol. 158; p. 873.
Stove. M. R. Lehman. Nos. 40,924–5; Sept. 27; Gaz. vol. 158; p. 873.
Stove. J. Davids. No. 40,964; Nov. 1; Gaz. vol. 160; p. 244.
Stove, Heating-. J. B. Howard. No. 40,680; May 3; Gaz. vol. 154; p. 236.
Stove, Heating-. J. B. Howard. No. 40,764; July 12; Gaz. vol. 156; p. 517.
Stove, Heating-. J. S. Van Buren. No. 40,962; Nov. 1; Gaz. vol. 160; p. 243.
Stove top-plate and oven, Gas-. J. G. Harvey. No. 40,690; May 10; Gaz. vol. 154; p. 497.
Suction cleaning-machines, Casing for portable. D. P. Moore and S. B. Pack. No. 40,748; June 28; Gaz. vol. 155; p. 1026.
Table decoration, Electric. J. Germin. No. 41,010; Nov. 29; Gaz. vol. 160; p. 1254.
Table utensil. J. Laurin. No. 40,842; Aug. 30; Gaz. vol. 157; p. 1225.
Talking-machine cabinet. M. Keen. No. 40,699; May 17; Gaz. vol. 154; p. 821.
Talking-machine cabinet. J. C. English. No. 41,008; Nov. 29; Gaz. vol. 160; p. 1253.
Thermostat-casing. H. A. Ames. No. 40,942; Oct. 18; Gaz. vol. 159; p. 733.
Tire, Automobile-. I. B. Kempshall. No. 40,570; Mar. 8; Gaz. vol. 152; p. 470.
Tire, Automobile-. I. B. Kempshall. No. 40,586; Mar. 22; Gaz. vol. 152; p. 940.
Toilet-rack. C. D. Golden. No. 40,687; May 10; Gaz. vol. 154; p. 496.
Tray. C. Fox. No. 40,590; Mar. 29; Gaz. vol. 152; p. 1189.
Trimming. D. F. Weyl. No. 40,589; Mar. 22; Gaz. vol. 152; p. 941.
Trimming. F. Wood. Nos. 40,948–50; Oct. 18; Gaz. vol. 159; p. 734.
Trimming. W. Hinchliffe. No. 40,966; Nov. 1; Gaz. vol. 160; p. 244.
Trophy. A. G. Spalding. Nos. 40,929–30; Oct. 4; Gaz. vol. 159; pp. 229–30.
Tumblers or other articles, Holder for. H. B. Taylor. No. 40,931; Oct. 4; Gaz. vol. 159; p. 230.
Tureen or similar article. H. Creange. No. 40,725; June 14; Gaz. vol. 155; p. 537.
Type, Font of. S. C. Gaunt. Nos. 40,617–18; Apr. 5; Gaz. vol. 153; p. 256.
Type, Font of. W. A. Schraubstadter. No. 40,718; May 31; Gaz. vol. 154; p. 1392.
Type, Font of. W. E. Elcome. No. 40,862; Sept. 6; Gaz. vol. 158; p. 213.
Unitary chair and table. E. Hick. No. 41,011; Nov. 29; Gaz. vol. 160; p. 1254.
Vacuum-cleaner casing. M. May. No. 40,756; July 5; Gaz. vol. 156; p. 244.
Vase. H. M. Dawley. Nos. 40,562–3; Mar. 2; Gaz. vol. 152; p. 468.
Vase. D. H. Moore. No. 40,584; Mar. 22; Gaz. vol. 152; p. 940.
Vehicle-body. C. E. Lang and M. W. Gaffney. No. 41,038; Dec. 13; Gaz. vol. 161; p. 513.
Vehicle-body. O. P. Fritchle. No. 41,053; Dec. 20; Gaz. vol. 161; p. 738.
Vehicles, Radiator-cap for motor-. L. C. Phipps, Jr. No. 40,664; Apr. 26; Gaz. vol. 153; p. 1062.
Wafer, Paper seal-. E. Taunton. No. 40,661; Apr. 26; Gaz. vol. 153; p. 1061.
Wagon-body. D. Boyle. No. 40,878; Sept. 13; Gaz. vol. 158; p. 469.
Wall-paper. E. Zilling. No. 40,547; Feb. 22; Gaz. vol. 151; p. 998.
Watch bow-socket. S. Y. Ball. No. 40,668; May 3; Gaz. vol. 154; p. 233.
Watch-charm. R. A. Pohlmann. No. 40,694; May 17; Gaz. vol. 154; p. 820.
Watch-charm or similar article. H. Bashinski. No. 40,750; July 5; Gaz. vol. 156; p. 243.
Watch-fob. J. M. Green. No. 40,831; Aug. 23; Gaz. vol. 157; p. 985.
Watch-fob or similar article. T. F. Pryor, Jr. No. 40,598; Apr. 5; Gaz. vol. 153; p. 252.
Watch-movements, Bridge-plate for. J. Pettavel. No. 40,813; Aug. 9; Gaz. vol. 157; p. 468.
Watchcase. A. M. Bissig. No. 40,695; May 17; Gaz. vol. 154; p. 820.
Water-heater. H. E. Bandlow. No. 40,846; Aug. 30; Gaz. vol. 157; p. 1226.
Water traps, Bowl for waste-. W. R. Willetts. No. 40,780; July 19; Gaz. vol. 156; p. 778.
Wheel, Hand-. W. Nelson. No. 40,717; May 31; Gaz. vol. 154; p. 1391.
Whiffletree-ring screw. J. S. Hibschman. No. 40,731; June 14; Gaz. vol. 155; p. 538.
Whisk-broom and brush holder. C. O. Seaman. No. 40,567; Mar. 8; Gaz. vol. 152; p. 469.

ALPHABETICAL LIST OF TRADE-MARKS.

Abdominal supporters, bandages, and suspensories. The Ohio Truss Co. No. 80,237; Nov. 22; Gaz. vol. 160; p. 1034.

Abrasives, Certain. The Vitrified Wheel Company. No. 76,729; Feb. 8; Gaz. vol. 151; p. 447.

Accordions. Rudolph Wurlitzer Co. No. 78,389; June 7; Gaz. vol. 155; p. 303.

Acid bacteria and dietetical preparations, Lactic-. Dr. Löloff & Dr. Mayer. No. 77,657; Apr. 26; Gaz. vol. 153; p. 1078.

Acid pyrogallic crystals. C. S. Hollander. No. 79,579; Sept. 20; Gaz. vol. 158; p. 698.

Adhesive cement and glue. Charles H. Besly & Company. No. 78,571; June 28; Gaz. vol. 155; p. 1037.

Adhesive paste. Clark Paper and Manufacturing Co. No. 78,587; June 28; Gaz. vol. 155; p. 1037.

Adhesive pastes, mucilage, gums, and glues. Monarch Paste Co. No. 79,846; Oct. 11; Gaz. vol. 159; p. 486.

Advertising-signs. A. M. Engelhard. No. 80,113; Nov. 8; Gaz. vol. 160; p. 489.

Agricultural implements. Potato Implement Company. No. 76,458; Jan. 18; Gaz. vol. 150; p. 822.

Agricultural implements and machines. Parlin & Orendorff Co. No. 76,343; Jan. 4; Gaz. vol. 150; p. 263.

Agricultural machinery, Certain. F. R. Crothers & Co. No. 76,785; Feb. 15; Gaz. vol. 151; p. 726.

Agricultural machines, Certain. Walter A. Wood Mowing and Reaping Machine Company. No. 77,079; Mar. 8; Gaz. vol. 152; p. 484.

Ale. F. T. Morrissey. No. 76,628; Feb. 1; Gaz. vol. 151; p. 191.

Ale. True W. Jones Brewing Company. No. 77,851; May 10; Gaz. vol. 154; p. 511.

Ale and syrup therefor, Ginger-. Parker-Browne Company. No. 77,953; May 17; Gaz. vol. 154; p. 832.

Ale, beer, porter, and stout. T. B. Hall & Company. No. 77,846; May 10; Gaz. vol. 154; p. 510.

Ale, beer, porter, stout, &c. P. Ballantine & Sons. No. 79,391; Sept. 6; Gaz. vol. 158; p. 223.

Ale, beer, porter, stout, &c. P. Ballantine & Sons. No. 79,462; Sept. 13; Gaz. vol. 158; p. 477.

Ales. Standard Brewing Company. No. 78,743; July 5; Gaz. vol. 156; p. 255.

Alfalfa-meal and alfalfa-meal stock food. Roswell Wool & Hide Company. No. 76,773; Feb. 15; Gaz. vol. 151; p. 726.

Alkaline salts. A. G. Lansing. No. 78,981; July 26; Gaz. vol. 156; p. 1062.

Alloy for repairing wagon-wheels. Universal Tire Setter Company. No. 80,294; Nov. 29; Gaz. vol. 160; p. 1268.

Alloy of copper and zinc. S. Q. Bass. No. 76,777; Feb. 15; Gaz. vol. 151; p. 726.

Alloys of precious metals and castings and forgings thereof. Hayes & Macfarland. No. 80,183; Nov. 15; Gaz. vol. 160; p. 769.

Almonds, Shelled. Habicht, Braun & Co. Nos. 76,881–4; Feb. 22; Gaz. vol. 151; p. 1010.

Almonds, Shelled. Habicht, Braun & Co. No. 76,935; Feb. 22; Gaz. vol. 151; p. 1011.

Aluminum, magnesium, &c. Magnalium-Industrie Gesellschaft, m. b. H. No. 76,671; Feb. 8; Gaz. vol. 151; p. 446.

Anesthetic, Perident. C. E. Gillam. No. 80,352; Dec. 13; Gaz. vol. 161; p. 525.

Anesthetics, Local. Miller and Blake Chemical Co. No. 78,117; May 31; Gaz. vol. 154; p. 1405.

Animal-traps. Oneida Community. No. 76,332; Jan. 4; Gaz. vol. 150; p. 263.

Animal-traps. Oneida Community. No. 79,513; Sept. 13; Gaz. vol. 158; p. 478.

Animal-traps. A. M. Young. No. 79,540; Sept. 13; Gaz. vol. 158; p. 479.

Ant-exterminating composition. Hine, Thome Company. No. 79,055; Aug. 2; Gaz. vol. 157; p. 203.

Antidote for malaria, chills, fever, and dumb ague. New York Chemical Company. No. 80,490; Dec. 27; Gaz. vol. 161; p. 1040.

Antiseptic. J. H. Winstanley. No. 76,635; Feb. 1; Gaz. vol. 151; p. 191.

Antiseptic. G. L. Widup. No. 79,803; Oct. 4; Gaz. vol. 159; p. 239.

Antiseptic. Samuel Cabot, Inc. No. 80,267; Nov. 29; Gaz. vol. 160; p. 1267.

Antiseptic, Alkaline. A. E. Felch. No. 77,689; Apr. 26; Gaz. vol. 153; p. 1079.

Antiseptic and disinfectant. The Oakland Chemical Company. No. 79,362; Aug. 30; Gaz. vol. 157; p. 1240.

Antiseptic and immobilizing fluids. B. I. Wiener. No. 77,503; Apr. 12; Gaz. vol. 153; p. 543.

Antiseptic, Gastro intestinal. Burrough Brothers Manufacturing Company. No. 78,935; July 26; Gaz. vol. 156; p. 1061.

Antiseptic germicide. F. S. Walker. No. 78,750; July 5; Gaz. vol. 156; p. 255.

Antiseptic liquid preparation. The Medicinal Products Company. No. 78,810; July 12; Gaz. vol. 156; p. 534.

Antiseptic mouth-wash. Chemische Werke vorm. Dr. Heinrich Byk. No. 78,065; May 31; Gaz. vol. 154; p. 1403.

Antiseptic refrigerant. H. P. Meyer. No. 76,549; Jan. 25; Gaz. vol. 150; p. 1038.

Antiseptic root-canal filling. W. D. Snyder. No. 78,652; June 28; Gaz. vol. 155; p. 1039.

Antiseptic sheets for medicinal and surgical use. V. von Alpenburg. No. 79,951; Oct. 25; Gaz. vol. 159; p. 987.

Antiseptic tablets, Urinary. A. E. Teichert. No. 76,634; Feb. 1; Gaz. vol. 151; p. 191.

Antiseptic tartar-remover. M. C. Olson. No. 76,372; Jan. 11; Gaz. vol. 150; p. 565.

Antiskidding devices, Cross-chains and hooks for. Newhall Chain Forge & Iron Co. No. 80,143; Nov. 8; Gaz. vol. 160; p. 490.

Anvils. Swedish Iron & Steel Corporation. No. 79,376; Aug. 30; Gaz. vol. 157; p. 1240.

Apparatus and parts thereof, Certain. The Gas Machinery Co. No. 79,415; Sept. 6; Gaz. vol. 158; p. 224.

Apple and grape juice. American Fruit Product Co. No. 78,052; May 31; Gaz. vol. 154; p. 1403.

Apples, Evaporated. J. Wassermann & Co. No. 79,800; Oct. 4; Gaz. vol. 159; p. 239.

Apples, Fresh. Grand Isle Fruit Company. No. 79,207; Aug. 16; Gaz. vol. 157; p. 749.

Apples, Fresh or green. Nelson Brothers Fruit Company. No. 79,509; Sept. 13; Gaz. vol. 158; p. 478.

Artists' colors and artists' varnishes. G. Rowney & Co. No. 80,495; Dec. 27; Gaz. vol. 161; p. 1040.

Asbestos products, Certain. United States Asbestos Co. No. 78,050; May 24; Gaz. vol. 154; p. 1105.

Asphalt. California Liquid Asphalt Company. No. 78,584; June 28; Gaz. vol. 155; p. 1037.

Asphalt. R. F. Conway Company. No. 80,346; Dec. 13; Gaz. vol. 161; p. 525.

Asphalt and certain asphalt products. Barber Asphalt Paving Company. No. 76,877; Feb. 22; Gaz. vol. 151; p. 1009.

Automobile accessories, Certain. Victor Auto Supply M'f'g Co. No. 79,539; Sept. 13; Gaz. vol. 158; p. 479.

Automobile pedal-covers. The American Pedal Co. No. 80,398; Dec. 20; Gaz. vol. 161; p. 749.

Automobile tool kits. H. Channon Company. No. 78,939; July 26; Gaz. vol. 156; p. 1061.

Automobile-tops. Vehicle Top & Supply Company. No. 77,428; Apr. 5; Gaz. vol. 153; p. 268.

Automobiles. Everitt-Metzger-Flanders Co. No. 76,308; Jan. 4; Gaz. vol. 150; p. 262.

Automobiles. Apperson Bros. Automobile Company. No. 76,665; Feb. 8; Gaz. vol. 151; p. 445.

Automobiles. F. C. Binkley. No. 77,019; Mar. 1; Gaz. vol. 152; p. 227.

Automobiles. G. R. Lodge. No. 77,874; May 10; Gaz. vol. 154; p. 511.

Automobiles. Société des Automobiles Brasier. No. 78,281; May 31; Gaz. vol. 154; p. 1409.

Automobiles. Selden Motor Vehicle Co. No. 78,457; June 14; Gaz. vol. 155; p. 551.

Automobiles. K. Crittenden. No. 78,943; July 26; Gaz. vol. 156; p. 1061.

Automobiles. Chalmers Motor Co. No. 79,102; Aug. 9; Gaz. vol. 157; p. 481.

Automobiles. E. R. Thomas Motor Company. No. 79,534; Sept. 13; Gaz. vol. 158; p. 479.

Automobiles. Detroit-Dearborn Motor Car Co. No. 80,306; Dec. 6; Gaz. vol. 161; p. 263.

Automobiles, cycles, and certain named parts. Schweinfurter Präcisions-Kugel-Lager-Werke, Fichtel & Sachs. No. 77,886; May 10; Gaz. vol. 154; p. 512.

Awls and awl-hafts. United Awl & Needle Company. Nos. 77,009–10; Mar. 1; Gaz. vol. 152; p. 226.

Awls and awl-hafts. United Awl & Needle Company. No. 77,345; Mar. 29; Gaz. vol. 152; p. 1220.

Axle-boxes and fittings therefor. The Patent Axle Box and Foundry Company. No. 80,375; Dec. 13; Gaz. vol. 161; p. 526.

Axles, not including bicycle-axles, Vehicle-. Sheldon Axle Company. No. 76,379; Jan. 11; Gaz. vol. 150; p. 566.

Baby-pacifiers. W. L. Strauss & Co. No. 78,463; June 14; Gaz. vol. 155; p. 551.

Bacon. Fred. Eckart Packing Co. No. 77,128; Mar. 15; Gaz. vol. 152; p. 727.

Bacteriological product. Franco-American Ferment Company. No. 76,471; Jan. 18; Gaz. vol. 150; p. 822.

Alphabetical list of trade-marks—Continued.

Bagging for baling cotton, Jute. American Manufacturing Company. No. 76,806; Feb. 15; Gaz. vol. 151; p. 727.
Bags and trunks, Traveling-. Dresdner Reiseutensilien-& Lederwarenfabrik, G. L. Lippold. No. 77,623; Apr. 26; Gaz. vol. 153; p. 1077.
Bags, Feed-. Avey Humane Feed Bag Company. No. 80,021; Nov. 1; Gaz. vol. 160; p. 253.
Bags, Ladies' hand-. Lehman & Company. No. 79,286; Aug. 23; Gaz. vol. 157; p. 996.
Bags, satchels, and pocket-books, Hand-. The S. A. Diamond & Bro. Co. No. 77,571; Apr. 19; Gaz. vol. 153; p. 819.
Bags, trunks, valises, and satchels, Traveling-. H. Loeb. No. 77,552; Apr. 19; Gaz. vol. 153; p. 818.
Baking-pans. J. Mathy. No. 78,334; June 7; Gaz. vol. 155; p. 302.
Baking-powder. Panknin's Imperial Baking Powder Company. No. 76,296; Jan. 4; Gaz. vol. 150; p. 261.
Baking-powder. C. R. Groff. No. 77,090; Mar. 8; Gaz. vol. 152; p. 484.
Baking-powder. F. B. Chamberlain Company. No. 77,628; Apr. 26; Gaz. vol. 153; p. 1077.
Baking-powder. Oliver-Finnie Co. No. 77,753; May 3; Gaz. vol. 154; p. 248.
Baking-powder. The Ennis Manufacturing Co. No. 78,782; July 12; Gaz. vol. 156; p. 533.
Baking-powder. Royal Baking Powder Company. No. 78,828; July 12; Gaz. vol. 156; p. 535.
Baking-powder. Nash-Smith Tea & Coffee Co. No. 78,896; July 19; Gaz. vol. 156; p. 794.
Baking-powder. The Scudders-Gale Grocer Co. No. 78,912; July 19; Gaz. vol. 156; p. 794.
Baking-powder. Haas, Baruch & Co. No. 78,967; July 26; Gaz. vol. 156; p. 1062.
Baking-powder. The Ennis Manufacturing Co. No. 79,266; Aug. 23; Gaz. vol. 157; p. 995.
Baking-powder. The Cabell Company. No. 79,541; Sept. 13; Gaz. vol. 158; p. 479.
Baking-powder. Absopure Baking Powder Company. No. 79,542; Sept. 20; Gaz. vol. 158; p. 697.
Baking-powder, ammonia, soda, &c. Closset & Devers. No. 78,401; June 14; Gaz. vol. 155; p. 549.
Baking-powder and baking-soda. St. Louis Coffee & Spice Mills. No. 78,214; May 31; Gaz. vol. 154; p. 1407.
Baking-powder and baking-soda. Ideal Coffee and Tea Company. No. 78,422; June 14; Gaz. vol. 155; p. 550.
Baking-powder and chemicals. The French Manufacturing Company. No. 78,704; July 5; Gaz. vol. 156; p. 254.
Baling cotton, Jute bagging for. The American Manufacturing Company. Nos. 77,602–3; Apr. 26; Gaz. vol. 153; p. 1077.
Balls, Game-. P. Goldsmith's Sons. No. 77,233; Mar. 22; Gaz. vol. 152; p. 954.
Balms and lotions, Face. J. F. Schutz. No. 76,481; Jan. 18; Gaz. vol. 150; p. 822.
Bananas and coffee, Roasted. International Banana Food Co. No. 76,447; Jan. 18; Gaz. vol. 150; p. 821.
Banjos. The Rudolph Wurlitzer Co. No. 77,760; May 3; Gaz. vol. 154; p. 249.
Bath-tubs, sinks, washbowls, &c. Kerner Manufacturing Company. No. 80,059; Nov. 1; Gaz. vol. 160; p. 254.
Batteries, Dry. Chicago Carbon Company. No. 76,850; Feb. 22; Gaz. vol. 151; p. 1009.
Batteries, Dry-cell. Longlife Battery Co. No. 77,659; Apr. 26; Gaz. vol. 153; p. 1078.
Batteries, Storage. Benoist Bros. Mfg. Co. No. 76,778; Feb. 15; Gaz. vol. 151; p. 726.
Battery cells, Dry-. Anhydrous Battery Company. No. 77,697; May 3; Gaz. vol. 154; p. 247.
Bearings, Antifriction-. Hesse-Bright Manufacturing Company. No. 76,687; Feb. 8; Gaz. vol. 151; p. 446.
Bed-comforts. Louisville Pillow Co. No. 79,289; Aug. 23; Gaz. vol. 157; p. 996.
Bed-mattress protectors. Excelsior Quilting Company. No. 80,221; Nov. 22; Gaz. vol. 160; p. 1033.
Beds, couches, davenports, and ship-bunks. Pacific Steel Furniture Mfg. Co. No. 77,691; Apr. 26; Gaz. vol. 153; p. 1079.
Beds, cribs, bed-springs, and mattresses. Barcalo Manufacturing Company. No. 79,809; Oct. 11; Gaz. vol. 159; p. 485.
Beds, Spring-. Leggett & Platt Spring Bed & Mfg. Co. No. 80,366; Dec. 13; Gaz. vol. 161; p. 526.
Bedsteads. Davis, Horwich & Steinman. No. 76,278; Jan. 4; Gaz. vol. 150; p. 261.
Beef and bacon, Sliced. C. E. Nessle Packing Company. No. 77,824; May 10; Gaz. vol. 154; p. 510.
Beef-fat and cotton-seed oil, Compound of. Halstead & Company. No. 76,589; Feb. 1; Gaz. vol. 151; p. 189.
Beef, Sliced. Marin & Goldberg. No. 78,719; July 5; Gaz. vol. 156; p. 254.
Beef, Smoked chipped. Hicks & Griffith. No. 77,539; Apr. 19; Gaz. vol. 153; p. 818.
Beer. Krantz Brewing Co. No. 76,490; Jan. 18; Gaz. vol. 150; p. 823.
Beer. Bartholomay Brewery Company. No. 76,539; Jan. 25; Gaz. vol. 150; p. 1038.
Beer. Los Angeles Brewing Co. No. 77,932; May 17; Gaz. vol. 154; p. 832.
Beer. Lexington Brewing Company. No. 78,427; June 14; Gaz. vol. 155; p. 550.
Beer. Actien-Gesellschaft Hackerbräu. No. 78,564; June 28; Gaz. vol. 155; p. 1037.
Beer. Pennsylvania Central Brewing Company. No. 78,734; July 5; Gaz. vol. 156; p. 255.
Beer. Gibson Canning Company. No. 78,960; July 26; Gaz. vol. 156; p. 1062.
Beer. Indianapolis Brewing Co. No. 79,214; Aug. 16; Gaz. vol. 157; p. 750.
Beer. Augusta Brewing Co. No. 79,388; Sept. 6; Gaz. vol. 158; p. 223.
Beer. Actien-Gesellschaft Hackerbräu. No. 79,420; Sept. 6; Gaz. vol. 158; p. 224.
Beer. The Oshkosh Brewing Company. No. 79,442; Sept. 6; Gaz. vol. 158; p. 224.
Beer. G. Sedlmayr, Brauerei zum Spaten. No. 79,794; Oct. 4; Gaz. vol. 159; p. 239.
Beer. Köbányai Polgári Serfözö Részvény Társaság. No. 79,841; Oct. 11; Gaz. vol. 159; p. 486.
Beer. G. Sedlmayr, Brauerei zum Spaten. No. 80,242; Nov. 22; Gaz. vol. 160; p. 1034.
Beer. Ashland Brewing Co. No. 80,264; Nov. 29; Gaz. vol. 160; p. 1267.
Beer, Bottled. Millstadt Brewery Company. No. 77,820; May 10; Gaz. vol. 154; p. 510.
Beer, Bottled. Broadway Brewing & Malting Co. No. 80,342; Dec. 13; Gaz. vol. 161; p. 525.
Beer, Bottled. A. Schreiber Brewing Company. No. 80,443; Dec. 20; Gaz. vol. 161; p. 750.
Beer, Extracts for making. J. Hofmeister. No. 78,973; July 26; Gaz. vol. 156; p. 1062.
Beers and malt extracts. A. Coors Company. No. 79,624; Sept. 20; Gaz. vol. 158; p. 699.
Beers, Imported. W. C. Beutel. No. 80,167; Nov. 15; Gaz. vol. 160; p. 769.
Bells. Bevin Brothers Manufacturing Company. No. 78,857; July 19; Gaz. vol. 156; p. 793.
Bells, gongs, and chimes. Bevin Brothers Manufacturing Company. No. 77,219; Mar. 22; Gaz. vol. 152; p. 953.
Belt-lap. New York Leather Belting Co. No. 78,266; May 31; Gaz. vol. 154; p. 1409.
Belts, Abdominal. R. E. Moore. No. 77,746; May 3; Gaz. vol. 154; p. 248.
Belts and bands, Machinery-driving. R. & J. Dick. No. 79,327; Aug. 30; Gaz. vol. 157; p. 1239.
Belts and girdles. Brown Durrell Co. No. 79,888; Oct. 18; Gaz. vol. 159; p. 743.
Belts and ropes, Preservatives for transmission. Cling-Surface Company. No. 79,104; Aug. 9; Gaz. vol. 157; p. 481.
Belts for personal wear. S. Gutman. No. 80,181; Nov. 15; Gaz. vol. 160; p. 769.
Belts, Metallic fasteners for pulley and conveyer. D. T. Graham. No. 77,308; Mar. 29; Gaz. vol. 152; p. 1219.
Belts, Power-transmitting and conveyer. The Republic Rubber Company. No. 79,366; Aug. 30; Gaz. vol. 157; p. 1240.
Belts, Waist-. Hewes & Potter. Nos. 77,462–3; Apr. 12; Gaz. vol. 153; p. 542.
Belting. Sawyer Belting Company. Nos. 77,077–8; Mar. 8; Gaz. vol. 152; pp. 483–4.
Belting. The B. F. Goodrich Company. No. 79,667; Sept. 27; Gaz. vol. 158; p. 879.
Belting and hose composed of rubber or rubber and fabric. New York Belting and Packing Company, Limited. No. 77,326; Mar. 29; Gaz. vol. 152; p. 1220.
Belting, Balata. Turner Brothers. No. 78,552; June 21; Gaz. vol. 155; p. 797.
Belting, hose, and machinery packing. Revere Rubber Company. No. 76,301; Jan. 4; Gaz. vol. 150; p. 262.
Belting, hose, and tires. Revere Rubber Company. No. 77,189; Mar. 15; Gaz. vol. 152; p. 729.
Belting, Leather. Detroit Oak Belting Co. No. 76,279; Jan. 4; Gaz. vol. 150; p. 261.
Belting, Leather. Graton & Knight Mfg. Co. Nos. 76,285–6; Jan. 4; Gaz. vol. 150; p. 261.
Belting, Leather. Philadelphia Belting Company. No. 76,297; Jan. 4; Gaz. vol. 150; p. 262.
Belting, Leather. Southern Belting Company of New Orleans. No. 78,543; June 21; Gaz. vol. 155; p. 796.
Belting, Leather. Charles A. Schieren Company. No. 78,646; June 28; Gaz. vol. 155; p. 1039.
Belting, Leather. The Akron Belting Company. No. 79,459; Sept. 13; Gaz. vol. 158; p. 477.
Belting, Stitched canvas. W. S. Langford. No. 78,249; May 31; Gaz. vol. 154; p. 1408.
Belting Stitched canvas. The American Belting Company. No. 79,315; Aug. 30; Gaz. vol. 157; p. 1239.
Belting, Stitched canvas and woven. Carton Belting Company. No. 77,704; May 3; Gaz. vol. 154; p. 247.
Belting, Woven. American Fabric Belting Co. No. 80,455; Dec. 27; Gaz. vol. 161; p. 1039.
Beverage, Carbonated. Millirons' Bottling Works. No. 77,258; Mar. 22; Gaz. vol. 152; p. 954.
Beverage, Cereal. M. Heerdt. No. 79,126; Aug. 9; Gaz. vol. 157; p. 482.
Beverage, Non-alcoholic. H. H. Fries. No. 79,334; Aug. 30; Gaz. vol. 157; p. 1239.

Alphabetical list of trade-marks—Continued.

Beverage, Non-alcoholic. H. C. Blair. No. 80,341; Dec. 13; Gaz. vol. 161; p. 525.
Beverage, Preparation for making a. William Cluff Company. No. 80,411; Dec. 20; Gaz. vol. 161; p. 749.
Beverages and syrups for making the same. New York Liquid Dispensing Machine Company. No. 77,119; Mar. 8; Gaz. vol. 152; p. 485.
Beverages and syrups for making the same. New York Liquid Dispensing Machine Company. No. 77,426; Apr. 5; Gaz. vol. 153; p. 268.
Beverages, Certain. Majestic Bottling Co. No. 76,626; Feb. 1; Gaz. vol. 151; p. 190.
Beverages, Certain. T. Hill. No. 76,790; Feb. 15; Gaz, vol. 151; p. 726.
Beverages, Certain. The Alhambra Natural Mineral Water Co. No. 77,412; Apr. 5; Gaz. vol. 153; p. 268.
Beverages, Certain. Merchants Ice & Cold Storage Co. No. 77,423; Apr. 5; Gaz. vol. 153; p. 268.
Beverages, Certain. The Canton City Bottling Company. No. 78,309; June 7; Gaz. vol. 155; p. 301.
Beverages, Certain alcoholic. Park & Tilford. No. 76,493; Jan. 18; Gaz. vol. 150; p. 823.
Beverages, Certain alcoholic. H. B. Kirk & Co. No. 77,536; Apr. 19; Gaz. vol. 153; p. 818.
Beverages, Certain alcoholic. M. B. Foster & Sons. No. 78,040; May 24; Gaz. vol. 154; p. 1104.
Beverages, Certain alcoholic. G. Janssen. No. 78,242; May 31; Gaz. vol. 154; p. 1408.
Beverages, Certain non-alcoholic. S. Clague. No. 80,409; Dec. 20; Gaz. vol. 161; p. 749.
Beverages, Compound alcoholic. J. Weichselbaum. No. 79,873; Oct. 11; Gaz. vol. 159; p. 487.
Beverages, Fruit. Franz Hartmann Sinalco Aktiengesellschaft. No. 76,619; Feb. 1; Gaz. vol. 151; p. 190.
Beverages, Non-alcoholic tonic. L. E. Maynard. No. 79,222; Aug. 16; Gaz. vol. 157; p. 750.
Bicycles. Appeal Manufacturing & Jobbing Co. No. 76,847; Feb. 22; Gaz. vol. 151; p. 1009.
Bicycles. M. E. Johnson, trustee. No. 78,331; June 7; Gaz. vol. 155; p. 302.
Bicycles and bicycle and motor-cycle crank-hangers. Elyea-Austell Co. No. 79,265; Aug. 23; Gaz. vol. 157; p. 995.
Bicycles and tricycles. National Cycle Manufacturing Company. No. 79,595; Sept. 20; Gaz. vol. 158; p. 698.
Bill, sign, and advertising boards, Sheet-metal. American Posting Service. No. 78,928; July 26; Gaz. vol. 156; p. 1061.
Bird-seed. Francis H. Leggett & Co. Nos. 79,768–9; Oct. 4; Gaz. vol. 159; p. 238.
Biscuit. National Biscuit Company. No. 77,424; Apr. 5; Gaz. vol. 153; p. 268.
Biscuit. National Biscuit Company. No. 77,556; Apr. 19; Gaz. vol. 153; p. 818.
Biscuit. Independent Baking Co. No. 78,329; June 7; Gaz. vol. 155; p. 302.
Biscuit. Francis H. Leggett & Co. No. 80,132; Nov. 8; Gaz. vol. 160; p. 490.
Biscuit, Chocolate-covered. J. P. Cobb. No. 80,174; Nov. 15; Gaz. vol. 160; p. 769.
Biscuits. H. Hamstra and Company. No. 76,362; Jan. 11; Gaz. vol. 150; p. 565.
Biscuits. Iten Biscuit Co. No. 78,241; May 31; Gaz. vol. 154; p. 1408.
Biscuits. The Marjenhoff Company. No. 80,137; Nov. 8; Gaz. vol. 160; p. 490.
Biscuits, crackers, and candies. The Marjenhoff Company. No. 76,834; Feb. 15; Gaz. vol. 151; p. 728.
Bismuth oxyiodo-gallate. The Hoffmann-La Roche Chemical Works. No. 79,760; Oct. 4; Gaz. vol. 159; p. 238.
Bit-braces. Markt & Co. No. 80,233; Nov. 22; Gaz. vol. 160; p. 1034.
Bit-braces, chucks, and chuck-jaws. The Peck, Stow & Wilcox Co. No. 80,437; Dec. 20; Gaz. vol. 161; p. 750.
Bitters, Orange. Booth's distillery. No. 79,552; Sept. 20; Gaz. vol. 158; p. 697.
Bitters, Stomach-. J. Schmelzer. No. 77,190; Mar. 15; Gaz. vol. 152; p. 729.
Bitters, Stomach-. C. Bienek. No. 79,716; Oct. 4; Gaz. vol. 159; p. 237.
Bitters, Stomach-. H. Kantorowicz. No. 79,762; Oct. 4; Gaz. vol. 159; p. 238.
Bitumen or asphaltum. John S. Lamson and Brother. No. 77,735; May 3; Gaz. vol. 154; p. 248.
Blankets and spreads. A. F. Bornot. No. 77,289; Mar. 29; Gaz. vol. 152; p. 1219.
Blankets, Cotton. German-American Company. No. 77,461; Apr. 12; Gaz. vol. 153; p. 542.
Blankets, Wool. The Pittsburgh Dry Goods Company. No. 76,657; Feb. 8; Gaz. vol. 151; p. 445.
Blankets, Wool. The Pittsburgh Dry Goods Company. Nos. 76,770–1; Feb. 15; Gaz. vol. 151; p. 726.
Blankets, Wool. The Pittsburgh Dry Goods Company. Nos. 77,057–8; Mar. 8; Gaz. vol. 152; p. 483.
Blankets, Wool. The Pittsburgh Dry Goods Company. No. 77,487; Apr. 12; Gaz. vol. 153; p. 542.
Blemish-eradicator. The Duke H. Watson Co. No. 80,395; Dec. 13; Gaz. vol. 161; p. 526.
Block and tackle. J. S. Hall. No. 77,395; Apr. 5; Gaz. vol. 153; p. 268.
Bloomers, dress waists and skirts, and dresses. Cohen & Perlstein. No. 76,851; Feb. 22; Gaz. vol. 151; p. 1009.
Blouses and jumpers, Women's and children's. Morris & Co. No. 78,726; July 5; Gaz. vol. 156; p. 254.
Blue, Laundry. A. Danwitz. No. 76,470; Jan. 18; Gaz. vol. 150; p. 822.
Boiler compounds. E. M. Deal. No. 76,810; Feb. 15; Gaz. vol. 151; p. 727.
Boiler compounds. L. Steinfirst. No. 77,167; Mar. 15; Gaz. vol. 152; p. 728.
Boiler incrustations, Compounds for preventing and removing. H. Y. B. Osgood. No. 79,149; Aug. 9; Gaz. vol. 157; p. 482.
Boiler steam condensers, evaporators, and preheaters. G. & J. Weir. No. 77,805; May 10; Gaz. vol. 154; p. 509.
Boiler steam condensers, evaporators, and preheaters. G. & J. Weir. No. 78,144; May 31; Gaz. vol. 154; p. 1405.
Boilers and radiators, Steam and hot-water. Pressed Radiator Company of America. No. 79,152; Aug. 9; Gaz. vol. 157; p. 482.
Boilers, Compound for the removal of scale from. Sugar Beets Products Co. No. 79,450; Sept. 6; Gaz. vol. 158; p. 225.
Bookcases. John Danner Manufacturing Company. No. 79,038; Aug. 2; Gaz. vol. 157; p. 203.
Books. Hurst & Company. No. 80,476; Dec. 27; Gaz. vol. 161; p. 1039.
Books, Account-. Midland Publishing Co. No. 78,116; May 31; Gaz. vol. 154; p. 1404.
Books and printed pamphlets, Instruction-. Brotherhood of Locomotive Firemen and Enginemen. No. 79,407; Sept. 6; Gaz. vol. 158; p. 223.
Books and stationery, Certain blank. Roberts & Meck. No. 77,030; Mar. 1; Gaz. vol. 152; p. 227.
Books, binders, and bond-paper, Loose-leaf. Saugerties Manufacturing Company. No. 80,154; Nov. 8; Gaz. vol. 160; p. 490.
Books, Blank. Corlies, Macy & Co. No. 77,185; Mar. 15; Gaz. vol. 152; p. 729.
Books, Blank. Kiggins & Tooker Co. No. 79,587; Sept. 20; Gaz. vol. 158; p. 698.
Books, Cook-. W. H. Lee. No. 77,149; Mar. 15; Gaz. vol. 152; p. 727.
Books, Illustrated sample and fashion. U. S. Fashion & Sample Book Co. No. 79,174; Aug. 9; Gaz. vol. 157; p. 483.
Books, Manifolding-. The McCaskey Register Company. No. 80,138; Nov. 8; Gaz. vol. 160; p. 490.
Books, Music-. G. Schirmer. No. 77,391; Apr. 5; Gaz. vol. 153; p. 267.
Books of a literary nature. Brentano's. No. 79,553; Sept. 20; Gaz. vol. 158; p. 697.
Books of fiction. Lothrop, Lee & Shepard Company. No. 76,977; Mar. 1; Gaz. vol. 152; p. 225.
Books of fiction. Reilly & Britton Company. No. 77,151; Mar. 15; Gaz. vol. 152; p. 728.
Books, pamphlets, cards, and leaflets. The Building Brick Association of America. No. 80,171; Nov. 15; Gaz. vol. 160; p. 769.
Books, Personal and household monthly-expense. C. J. Albert. No. 80,453; Dec. 27; Gaz. vol. 161; p. 1039.
Boot and shoe finisher, Leather. A. G. Saunders. No. 77,141; Mar. 15; Gaz. vol. 152; p. 727.
Boot-protectors. Blakey's Boot Protectors. No. 77,509; Apr. 19; Gaz. vol. 153; p. 817.
Boot-protectors, Metal. John Giles & Sons. No. 76,571; Feb. 1; Gaz. vol. 151; p. 189.
Boots and shoes. D. Sommers. No. 77,769; May 3; Gaz. vol. 154; p. 249.
Boots and shoes. Hayden & Collins. No. 78,515; June 21; Gaz. vol. 155; p. 796.
Boots and shoes. Beals & Torrey Shoe Co. No. 80,101; Nov. 8; Gaz. vol. 160; p. 489.
Boots and shoes and slippers. Edwin C. Burt Company. No. 79,958; Oct. 25; Gaz. vol. 159; p. 987.
Boots and shoes, Cloth. P. J. Harney Shoe Company. No. 77,561; Apr. 19; Gaz. vol. 153; p. 818.
Boots and shoes, Cloth and leather. The Florsheim Shoe Company. No. 77,632; Apr. 26; Gaz. vol. 153; p. 1078.
Boots and shoes, Leather. Utz & Dunn. No. 76,464; Jan. 18; Gaz. vol. 150; p. 822.
Boots and shoes, Leather. Beasley Shoe Co. No. 76,501; Jan. 25; Gaz. vol. 150; p. 1037.
Boots and shoes, Leather. Northern Shoe Co. No. 76,793; Feb. 15; Gaz. vol. 151; p. 726.
Boots and shoes, Leather. Bradley & Metcalf Co. No. 76,848; Feb. 22; Gaz. vol. 151; p. 1009.
Boots and shoes, Leather. J. E. & W. G. Wesson. No. 77,277; Mar. 22; Gaz. vol. 152; p. 955.
Boots and shoes, Leather. Thompson-Ehlers Co. No. 77,382; Apr. 5; Gaz. vol. 153; p. 267.
Boots and shoes, Leather. The Huiskamp Bros. Co. No. 77,650; Apr. 26; Gaz. vol. 153; p. 1078.
Boots and shoes, Leather. Northern Shoe Co. No. 77,749; May 3; Gaz. vol. 154; p. 248.
Boots and shoes, Leather. The Plant-Butler Co. No. 77,829; May 10; Gaz. vol. 154; p. 510.
Boots and shoes, Leather. Hamburger Bros. No. 78,090; May 31; Gaz. vol. 154; p. 1404.
Boots and shoes, Leather. W. J. Martinez & Bros. No. 78,113; May 31; Gaz. vol. 154; p. 1404.

Boots and shoes, Leather. J. E. & W. G. Wesson. No. 78,145; May 31; Gaz. vol. 154; p. 1405.
Boots and shoes, Leather. R. L. Summers. No. 78,216; May 31; Gaz. vol. 154; p. 1407.
Boots and shoes, Leather. The Rickard-Gregory Shoe Co. No. 78,447; June 14; Gaz. vol. 155; p. 550.
Boots and shoes, Leather. James Clark Leather Company. No. 78,494; June 21; Gaz. vol. 155; p. 795.
Boots and shoes, Leather. Hamburger Bros. No. 79,052; Aug. 2; Gaz. vol. 157; p. 203.
Boots and shoes, Leather. Utz & Dunn. No. 79,242; Aug. 16; Gaz. vol. 157; p. 750.
Boots and shoes, Leather. Burt and Packard Company. No. 79,409; Sept. 6; Gaz. vol. 158; p. 223.
Boots and shoes, Leather. W. J. Martinez & Bros. No. 79,436; Sept. 6; Gaz. vol. 158; p. 224.
Boots and shoes, Leather. John Pilling Shoe Company. No. 79,689; Sept. 27; Gaz. vol. 158; p. 880.
Boots and shoes, Leather and cloth. A. E. Little & Company. No. 79,681; Sept. 27; Gaz. vol. 158; p. 880.
Boots and shoes made wholly or partially of leather. Woodbury Shoe Company. Nos. 76,866–7; Feb. 22; Gaz. vol. 151; p. 1009.
Boots, Leather automobile-. Roberts, Johnson & Rand Shoe Company. No. 77,380; Apr. 5; Gaz. vol. 153; p. 267.
Boots, shoes, and leggings, Leather. Ellet-Kendall Shoe Company. No. 79,659; Sept. 27; Gaz. vol. 158; p. 879.
Boots, shoes, and leggings, Leather. Ellet-Kendall Shoe Company. No. 79,905; Oct. 18; Gaz. vol. 159; p. 743.
Boots, shoes, and slippers. Nath'l Fisher & Co. No. 79,665; Sept. 27; Gaz. vol. 158; p. 879.
Boots, shoes, oxfords, and slippers. B. Rich's Sons. No. 76,796; Feb. 15; Gaz. vol. 151; p. 726.
Boots, shoes, slippers, and overshoes. F. P. Kirkendall & Co. No. 76,507; Jan. 25; Gaz. vol. 150; p. 1037.
Borax. Sterling Borax Company. No. 80,005; Oct. 25; Gaz. vol. 159; p. 988.
Borax. Francis H. Leggett & Co. No. 80,068; Nov. 1; Gaz. vol. 160; p. 254.
Bottle-holder. The Holz Manufacturing Co. No. 79,582; Sept. 20; Gaz. vol. 158; p. 698.
Bottle-stoppers. Brooklyn Bottle Stopper Co. No. 77,036; Mar. 1; Gaz. vol. 125; p. 227.
Bottle-stoppers. International Cork Company. No. 77,041; Mar. 1; Gaz. vol. 152; p. 227.
Bottle-stoppers. New York Specialty Co. No. 78,727; July 5; Gaz. vol. 156; p. 254.
Bottle-stoppers, Composition. Century Cork Co. No. 78,687; July 5; Gaz. vol. 156; p. 253.
Bottles, Nursing-. R. A. Vancleave. No. 76,406; Jan. 11; Gaz. vol. 150; p. 566.
Bottling machinery and parts of the same. The Crown Cork & Seal Company. No. 79,897; Oct. 18; Gaz. vol. 159; p. 743.
Boxes and cases, Packing. A. J. Warne-Browne. No. 79,175; Aug. 9; Gaz. vol. 157; p. 483.
Boxes, cartons, and blanks therefor. National Metal Edge Box Company. No. 78,339; June 7; Gaz. vol. 155; p. 302.
Boxes, Jewelry-. L. Ettlinger & Sons. No. 76,566; Feb. 1; Gaz. vol. 151; p. 189.
Boxes, Metallic. Société Edouard Broussaud et Alfred Bonfils. No. 78,678; July 5; Gaz. vol. 156; p. 253.
Boxes or cartons, Knockdown. Scoop Folding Box Company. No. 77,270; Mar. 22; Gaz. vol. 152; p. 955.
Braid. August Moll Mfg. Co. No. 79,223; Aug. 16; Gaz. vol. 157; p. 750.
Braids and soutaches. Union Novelty Co. No. 78,918; July 19; Gaz. vol. 156; p. 795.
Brake-blocks. The Herbert Frood Company. No. 79,487; Sept. 13; Gaz. vol. 158; p. 477.
Brake-linings. W. E. Pruden Hardware Co. No. 79,078; Aug. 2; Gaz. vol. 157; p. 204.
Brandy. M. Weiner. No. 78,294; May 31; Gaz. vol. 154; p. 1409.
Brandy. J. Gautret Fils. Nos. 79,626–8; Sept. 20; Gaz. vol. 158; p. 699.
Brandy. Maison Boulestin. No. 80,105; Nov. 8; Gaz. vol. 160; p. 489.
Brandy. Rosenblatt Co. No. 80,241; Nov. 22; Gaz. vol. 160; p. 1034.
Brandy, Grape. Italian Swiss Colony. No. 78,182; May 31; Gaz. vol. 154; p. 1406.
Brandy, Wine-. Carmel Wine Company. No. 80,406; Dec. 20; Gaz. vol. 161; p. 749.
Bread. Lonsdale Bakery Co. No. 77,004; Mar. 1; Gaz. vol. 152; p. 226.
Bread. Haller Bread Company. No. 79,123; Aug. 9; Gaz. vol. 157; p. 481.
Bread. S. Dimitroff. No. 80,042; Nov. 1; Gaz. vol. 160; p. 253.
Brick. The Claycraft Brick Company. No. 79,469; Sept. 13; Gaz. vol. 158; p. 477.
Brick. Ricketson & Schwarz. No. 79,523; Sept. 13; Gaz. vol. 158; p. 479.
Bricks. Wisconsin Lime and Cement Company. No. 78,368; June 7; Gaz. vol. 155; p. 303.
Bricks. Thomas Moulding Company. No. 79,172; Aug. 9; Gaz. vol. 157; p. 483.
Bricks. Ridgway Brick Co. No. 79,697; Sept. 27; Gaz. vol. 158; p. 880.
Bricks. Pearl Clay Products Company. No. 80,079; Nov. 1; Gaz. vol. 160; p. 254.
Briquets. R. A. Carter, Jr. No. 79,256; Aug. 23; Gaz. vol. 157; p. 995.
Brooches and stick-pins. Ben Strauss Company. No. 77,613; Apr. 26; Gaz. vol. 153; p. 1077.
Brooders. A. P. Ward Brooder Co. No. 76,748; Feb. 15; Gaz. vol. 151; p. 725.
Brooders. Park & Pollard Company. No. 78,124; May 31; Gaz. vol. 154; p. 1405.
Brooms. Joseph Lay Company. No. 76,515; Jan. 25; Gaz. vol. 150; p. 1037.
Brooms. Merkle Wiley Broom Co. Nos. 77,660–1; Apr. 26; Gaz. vol. 153; p. 1078.
Brooms. American Broom Mfg. Co. No. 77,978; May 24; Gaz. vol. 154; p. 1103.
Brooms. Gardner Broom Company. No. 79,048; Aug. 2; Gaz. vol. 157; p. 203.
Brooms. Joseph Lay Company. No. 79,065; Aug. 2; Gaz. vol. 157; p. 204.
Brooms. J. S. Liddle. No. 79,432; Sept. 6; Gaz. vol. 158; p. 224.
Brooms. Francis H. Leggett & Co. No. 79,680; Sept. 27; Gaz. vol. 158; p. 880.
Brooms. The O. K. Broom Works. No. 79,854; Oct. 11; Gaz. vol. 159; p. 486.
Brooms. Lee Broom & Duster Company. Nos. 80,062–6; Nov. 1; Gaz. vol. 160; p. 254.
Brooms. Lee Broom & Duster Company. No. 80,365; Dec. 13; Gaz. vol. 161; p. 526.
Brooms. The Joseph Lay Company. Nos. 80,430–1; Dec. 20; Gaz. vol. 161; p. 750.
Brooms, brushes, and mops. Indianapolis Brush & Broom Mfg. Co. No. 76,545; Jan. 25; Gaz. vol. 150; p. 1038.
Brooms, dust-brushes, and dusters. M. Ozlek. No. 77,952; May 17; Gaz. vol. 154; p. 832.
Brooms, whisk-brooms, and scrub-brushes. Kimball Brothers Company. No. 76,973; Mar. 1; Gaz. vol. 152; p. 225.
Brushes. Rennous Kleinle & Co. No. 77,409; Apr. 5; Gaz. vol. 153; p. 268.
Brushes. Alfred H. Smith Co. No. 78,210; May 31; Gaz. vol. 154; p. 1407.
Brushes. The Davis Chemical Company. No. 78,404; June 14; Gaz. vol. 155; p. 549.
Brushes. Sakabe & Sekine. No. 79,862; Oct. 11; Gaz. vol. 159; p. 486.
Brushes. Deitsch Brothers. No. 80,305; Dec. 6; Gaz. vol. 161; p. 263.
Brushes and detachable parts thereof, Shaving-. C. E. Thompson. No. 77,584; Apr. 19; Gaz. vol. 153; p. 819.
Brushes, Clothes-. G. B. Dexter. No. 79,264; Aug. 23; Gaz. vol. 157; p. 995.
Brushes, Fountain-. Cardinet Fountain Brush Co. No. 78,399; June 14; Gaz. vol. 155; p. 549.
Brushes, Horse-. Norvell-Shapleigh Hardware Company. No. 77,260; Mar. 22; Gaz. vol. 152; p. 955.
Brushes of all kinds. The Baltimore Brush Co. No. 78,393; June 14; Gaz. vol. 155; p. 549.
Brushes, Painters'. Rennous Kleinle & Co. of Baltimore City. No. 76,978; Mar. 1; Gaz. vol. 152; p. 225.
Brushes, Tooth-. O. Reiffarth. No. 77,408; Apr. 5; Gaz. vol. 153; p. 268.
Brushes, Tooth-. A. P. Baumann. No. 77,980; May 24; Gaz. vol. 154; p. 1103.
Brushes, Tooth-. Smith, Kline & French Company. No. 78,741; July 5; Gaz. vol. 156; p. 255.
Brushes, Tooth-. Smith Kline & French Company. No. 78,914; July 19; Gaz. vol. 156; p. 794.
Buckles for clothing. Alma Manufacturing Company of Baltimore City. No. 78,478; June 21; Gaz. vol. 155; p. 795.
Buggies, carriages, and wagons. Carolina Buggy M'f'g Co. No. 78,775; July 12; Gaz. vol. 156; p. 533.
Building materials, Certain. Simons Brick Company. No. 80,156; Nov. 8; Gaz. vol. 160; p. 490.
Butter. W. H. Constable. No. 76,784; Feb. 15; Gaz. vol. 151; p. 726.
Butter. The S. P. Pond Company. No. 76,840; Feb. 15; Gaz. vol. 151; p. 728.
Butter. E. Pattison. No. 77,137; Mar. 15; Gaz. vol. 152; p. 727.
Butter. Bohn-Lenartz Commission Company. No. 77,288; Mar. 29; Gaz. vol. 152; p. 1219.
Butter. Ohio & Pittsburg Milk Company. No. 77,406; Apr. 5; Gaz. vol. 153; p. 268.
Butter. H. H. Brown. No. 77,616; Apr. 26; Gaz. vol. 153; p. 1077.
Butter. J. R. Tichenor. No. 78,029; May 24; Gaz. vol. 154; p. 1104.
Butter. American Butter and Cheese Co. No. 79,884; Oct. 18; Gaz. vol. 159; p. 743.
Butter. Merrell-Soule Co. No. 80,142; Nov. 8; Gaz. vol. 160; p. 490.
Butter and eggs. Ohio Grocery and Baking Company. No. 76,529; Jan. 25; Gaz. vol. 150; p. 1037.
Butter, Creamery-. Caldwell Idaho Creamery Co. No. 77,065; Mar. 8; Gaz. vol. 152; p. 483.

Alphabetical list of trade-marks—Continued.

Butter, Vegetable. W. I. Gordon, Sr. No. 79,571; Sept. 20; Gaz. vol. 158; p. 697.
Buttermilk. Middletown Farms. No. 80,434; Dec. 20; Gaz. vol. 161; p. 750.
Button-fasteners. G. Rafflenbeul. No. 77,266; Mar. 22; Gaz. vol. 152; p. 955.
Button-fastening machines. G. Rafflenbeul. No. 77,671; Apr. 26; Gaz. vol. 153; p. 1079.
Button molds and rims. Independent Button & Machine Company. No. 78,007; May 24; Gaz. vol. 154; p. 1104.
Buttons and beads, Porcelain. Risler & Cie. No. 79,231; Aug. 16; Gaz. vol. 157; p. 750.
Buttons made of precious metal, Collar-. Stern Bros. & Company. No. 77,059; Mar. 8; Gaz. vol. 152; p. 483.
Buttons, Snap-. Waldes & Co. No. 80,095; Nov. 1; Gaz. vol. 160; p. 255.
Butts or hinges, Steel. Stanley Works. No. 80,387; Dec. 13; Gaz. vol. 161; p. 526.
Cable rings and hangers. Diamond Expansion Bolt Co. No. 78,592; June 28; Gaz. vol. 155; p. 1037.
Cake. The F. O. Stone Baking Company. No. 77,415; Apr. 5; Gaz. vol. 153; p. 268.
Cake icing and filling. Manufacturing Company of America. No. 77,404; Apr. 5; Gaz. vol. 153; p. 268.
Cakes. Maryland Biscuit Co. No. 77,474; Apr. 12; Gaz. vol. 153; p. 542.
Cakes and biscuits. W. B. Van Doesburg. No. 77,888; May 10; Gaz. vol. 154; p. 512.
Cakes, plum-pudding, and clam-chowder, Cassava-. Francis H. Leggett & Co. No. 80,135; Nov. 8; Gaz. vol. 160; p. 490.
Calcimine. Adams & Elting Co. Nos. 76,663–4; Feb. 8; Gaz. vol. 151; p. 445.
Calcium carbid. Union Carbide Company. No. 78,367; June 7; Gaz. vol. 155; p. 303.
Calcium-carbid blocks or cakes. C. C. Wakefield & Company. No. 77,168; Mar. 15; Gaz. vol. 152; p. 728.
Calculating-machines. Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien. No. 80,313; Dec. 6; Gaz. vol. 161; p. 263.
Cambric, Linen-thread. Sherman & Sons Co. No. 77,576; Apr. 19; Gaz. vol. 153; p. 819.
Candied popcorn. Rueckheim Bros. & Eckstein. No. 79,010; July 26; Gaz. vol. 156; p. 1063.
Candies. The Darling Candy Company. No. 77,519; Apr. 19; Gaz. vol. 153; p. 817.
Candies. Advance Novelty Candy Manufacturing Company. No. 77,890; May 17; Gaz. vol. 154; p. 831.
Candies. Celby Candy Co. No. 77,984; May 24; Gaz vol. 154; p. 1103.
Candies. J. G. Smith. No. 78,833; July 12; Gaz. vol. 156; p. 535.
Candies. Clifford Brothers. No. 78,862; July 19; Gaz. vol. 156; p. 793.
Candies. R. B. Horn Company. No. 79,127; Aug. 9; Gaz. vol. 157; p. 482.
Candies. Gottmann & Kretchmer. No. 79,274; Aug. 23; Gaz. vol. 157; p. 995.
Candies. G. E. Doolittle. No. 79,329; Aug. 30; Gaz. vol. 157; p. 1239.
Candies. I. E. Block. No. 79,551; Sept. 20; Gaz. vol. 158; p. 697.
Candies. The Fremont Candy Company. No. 79,581; Sept. 20; Gaz. vol. 158; p. 698.
Candies. J. T. Reed. No. 79,696; Sept. 27; Gaz. vol. 158; p. 880.
Candies. Central Candy Company. No. 79,719; Oct. 4; Gaz. vol. 159; p. 237.
Candies. C. D. Lane. No. 79,766; Oct. 4; Gaz. vol. 159; p. 238.
Candies. New England Confectionery Co. No. 80,077; Nov. 1; Gaz. vol. 160; p. 254.
Candies. I. E. Block. No. 80,301; Dec. 6; Gaz. vol. 161; p. 263.
Candies, Chocolate. The Darling Candy Company. No. 77,622; Apr. 26; Gaz. vol. 153; p. 1077.
Candies, Chocolate. The Sims-Jeffries Company. No. 77,692; Apr. 26; Gaz. vol. 153; p. 1079.
Candies, Chocolate. Snyder-Chaffee Co. No. 79,449; Sept. 6; Gaz. vol. 158; p. 225.
Candies, Chocolate. W. F. Schrafft & Sons Corporation. No. 80,199; Nov. 15; Gaz. vol. 160; p. 770.
Candies, chocolates, and sweetmeats. Webers. No. 76,407; Jan. 11; Gaz. vol. 150; p. 566.
Candies, ice-cream, and ices. E. A. G. Intemann, Jr. No. 76,446; Jan. 18; Gaz. vol. 150; p. 821.
Candy. Macdiarmid Company Nos. 76,291–2; Jan. 4; Gaz. vol. 150; p. 261.
Candy. Geo. Blome & Son Co. No. 76,587; Feb. 1; Gaz. vol. 151; p. 189.
Candy. J. W. Hamilton. No. 76,590; Feb. 1; Gaz. vol. 151; p. 189.
Candy. L. V. Curry. No. 77,156; Mar. 15; Gaz. vol. 152; p. 728.
Candy. Dreyfus Brothers. No. 77,301; Mar. 29; Gaz. vol. 152; p. 1219.
Candy. Lipps-Murbach Company of Baltimore City. No. 77,931; May 17; Gaz. vol. 154; p. 832.
Candy. National Candy Company. No. 78,018; May 24; Gaz. vol. 154; p. 1104.
Candy. The Reinhart & Newton Company. No. 78,353; June 7; Gaz. vol. 155; p. 302.
Candy. H. L. Schlesinger. No. 78,542; June 21; Gaz. vol. 155; p. 796.
Candy. Rochester Candy Works. No. 79,154; Aug. 9; Gaz. vol. 157; p. 482.
Candy. Huyler's. No. 79,283; Aug. 23; Gaz. vol. 157; p. 996.
Candy. S. Kann Sons & Co. No. 79,344; Aug. 30; Gaz. vol. 157; p. 1240.
Candy. Paul F. Beich Company. No. 79,547; Sept. 20; Gaz. vol. 158; p. 697.
Candy. Greek American Confectionery Co. No. 79,572; Sept. 20; Gaz. vol. 158; p. 697.
Candy. The National Candy Company. No. 79,778; Oct. 4; Gaz. vol. 159; p. 238.
Candy. Sour Krout Candy Co. No. 80,243; Nov. 22; Gaz. vol. 160; p. 1034.
Candy. A. C. Todd. No. 80,391; Dec. 13; Gaz. vol. 161; p. 526.
Candy. T. C. Dusenberg. No. 80,468; Dec. 27; Gaz. vol. 161; p. 1039.
Candy and chocolate. Huyler's. No. 78,606; June 28; Gaz. vol. 155; p. 1038.
Candy, Chocolate. B. Allegretti. No. 77,122; Mar. 15; Gaz. vol. 152; p. 727.
Candy, Chocolate. W. F. Schrafft & Sons Corporation. No. 80,291; Nov. 29; Gaz. vol. 160; p. 1268.
Candy, chocolates, bonbons, and ice-cream. A. E. Hero. No. 77,312; Mar. 29; Gaz. vol. 152; p. 1219.
Candles. The Will & Baumer Company. Nos. 78,149–51; May 31; Gaz. vol. 154; p. 1405.
Candles. Syracuse Candle Company. No. 78,661; June 28; Gaz. vol. 155; p. 1039.
Canned anchovies and sardines. J. Conradsen, A/S. No. 79,190; Aug. 16; Gaz. vol. 157; p. 749.
Canned asparagus. Golden State Asparagus Co. No. 76,284; Jan. 4; Gaz. vol. 150; p. 261.
Canned asparagus. Golden State Asparagus Co. No. 79,417; Sept. 6; Gaz. vol. 158; p. 224.
Canned corn. Martin & Nurre Canning Co. Nos. 76,693–4; Feb. 8; Gaz. vol. 151; p. 446.
Canned corn. Elgin Canning Co. No. 77,210; Mar. 22; Gaz. vol. 152; p. 953.
Canned corn. Samels Bros. & White Canning Co. No. 78,356; June 7; Gaz. vol. 155; p. 302.
Canned corn. The Kroger Grocery & Baking Company. No. 79,589; Sept. 20; Gaz. vol. 158; p. 698.
Canned corn. The Kroger Grocery & Baking Company. No. 80,187; Nov. 15; Gaz. vol. 160; p. 769.
Canned crab-meat. Parrott & Co. No. 79,930; Oct. 18; Gaz. vol. 159; p. 744.
Canned fish. Monterey Packing Company. No. 76,517; Jan. 25; Gaz. vol. 150; p. 1037.
Canned foods. J. W. Rider. No. 77,830; May 10; Gaz. vol. 154; p. 510.
Canned foods. L. Pickert Fish Co. No. 78,273; May 31; Gaz. vol. 154; p. 1409.
Canned foods. The Sears & Nichols Company. No. 79,935; Oct. 18; Gaz. vol. 159; p. 744.
Canned foods and coffee. The Bittman-Todd Grocer Company. No. 78,573; June 28; Gaz. vol. 155; p. 1037.
Canned fruit. California Fruit Canners Association. No. 77,223; Mar. 22; Gaz. vol. 152; p. 954.
Canned fruit and vegetables. California Fruit Canners Association. No. 76,431; Jan. 18; Gaz. vol. 150; p. 821.
Canned fruit, vegetables, fish, and oysters. The P. S. Hessler Mercantile Company. No. 79,834; Oct. 11; Gaz. vol. 159; p. 485.
Canned fruits. California Fruit Canners Association. No. 76,930; Feb. 22; Gaz. vol. 151; p. 1011.
Canned fruits. California Fruit Canners Association. Nos. 77,172–3; Mar. 15; Gaz. vol. 152; p. 728.
Canned fruits. Carquinez Packing Co. Nos. 77,197–8; Mar. 22; Gaz. vol. 152; p. 953.
Canned fruits. Modesto Canning Company. No. 77,665; Apr. 26; Gaz. vol. 153; p. 1078.
Canned fruits. Golden Gate Packing Company. No. 77,726; May 3; Gaz. vol. 154; p. 248.
Canned fruits. Hunt Brothers Company. No. 77,731; May 3; Gaz. vol. 154; p. 248.
Canned fruits. Hunt Brothers Company. No. 78,421; June 14; Gaz. vol. 155; p. 550.
Canned fruits. California Fruit Canners Association. No. 78,681; July 5; Gaz. vol. 156; p. 253.
Canned fruits. Golden Gate Packing Company. No. 79,050; Aug. 2; Gaz. vol. 157; p. 203.
Canned fruits. Golden Gate Packing Company. No. 79,754; Oct. 4; Gaz. vol. 159; p. 238.
Canned fruits. California Fruit Canners Association. No. 80,173; Nov. 15; Gaz. vol. 160; p. 769.
Canned fruits. Hunt Brothers Company. No. 80,475; Dec. 27; Gaz. vol. 161; p. 1039.
Canned fruits and raisins. California Fruit Canners Association. No. 80,209; Nov. 22; Gaz. vol. 160; p. 1033.
Canned fruits and vegetables. California Fruit Canners Association. No. 76,483; Jan. 18; Gaz. vol. 150; p. 822.
Canned fruits and vegetables. Pratt-Low Preserving Company. No. 76,599; Feb. 1; Gaz. vol. 151; p. 190.

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Canned fruits and vegetables. F. Sardou. No. 76,605; Feb. 1; Gaz. vol. 151; p. 190.
Canned fruits and vegetables. Pratt-Low Preserving Company. No. 76,698; Feb. 8; Gaz. vol. 151; p. 446.
Canned fruits and vegetables. F. Sardou. No. 76,797; Feb. 15; Gaz. vol. 151; p. 726.
Canned fruits and vegetables. California Fruit Canners Association. Nos. 77,085–6; Mar. 8; Gaz. vol. 152; p. 484.
Canned fruits and vegetables. Pratt-Low Preserving Company. No. 77,138; Mar. 15; Gaz. vol. 152; p. 727.
Canned fruits and vegetables. See & Company. No. 77,164; Mar. 15; Gaz. vol. 152; p. 728.
Canned fruits and vegetables. Code-Portwood Canning Co. No. 77,202; Mar. 22; Gaz. vol. 152; p. 953.
Canned fruits and vegetables. J. H. Hoffecker Canning Company. No. 77,238; Mar. 22; Gaz. vol. 152; p. 954.
Canned fruits and vegetables. Hoffecker Bros. & Hall Co. Nos. 77,239–40; Mar. 22; Gaz. vol. 152; p. 954.
Canned fruits and vegetables. California Fruit Canners Association. No. 77,291; Mar. 29; Gaz. vol. 152; p. 1219.
Canned fruits and vegetables. The Burt Olney Canning Company. No. 77,429; Apr. 5; Gaz. vol. 153; p. 268.
Canned fruits and vegetables. Torsch Packing Company. No. 77,585; Apr. 19; Gaz. vol. 153; p. 819.
Canned fruits and vegetables. F. Sardou. No. 77,674; Apr. 26; Gaz vol. 153; p. 1079.
Canned fruits and vegetables. E. W. Gates & Son Company. No. 77,796; May 10; Gaz. vol. 154; p. 509.
Canned fruits and vegetables. The Burt Olney Canning Company. No. 77,902; May 17; Gaz. vol. 154; p. 831.
Canned fruits and vegetables. Pratt-Low Preserving Company. No. 77,955; May 17; Gaz. vol. 154; p. 832.
Canned fruits and vegetables. W. R. Roach & Co. No. 78,028; May 24; Gaz. vol. 154; p. 1104.
Canned fruits and vegetables. Pratt-Low Preserving Company. No. 78,274; May 31; Gaz. vol. 154; p. 1409.
Canned fruits and vegetables. W. R. Roach & Co. No. 78,277; May 31; Gaz. vol. 154; p. 1409.
Canned fruits and vegetables. W. T. Reynolds & Co. No. 78,444; June 14; Gaz. vol. 155; p. 550.
Canned fruits and vegetables. Hudson & Co. No. 79,282; Aug. 23; Gaz. vol. 157; p. 996.
Canned fruits and vegetables. Twohy-Eimon Mercantile Company. No. 79,537; Sept. 13; Gaz. vol. 158; p. 479.
Canned fruits and vegetables. Hunt Brothers Company. No. 79,761; Oct. 4; Gaz. vol. 159; p. 238.
Canned fruits and vegetables. The Continental Fruit Packing Co. Nos. 80,108–9; Nov. 8; Gaz. vol. 160; p. 489.
Canned fruits and vegetables. Fort Stanwix Canning Company. No. 80,276; Nov. 29; Gaz. vol. 160; p. 1267.
Canned fruits, berries, vegetables, &c. The Sears & Nichols Company. No. 76,725; Feb. 8; Gaz. vol. 151; p. 447.
Canned fruits, vegetables, and fish. Hale-Halsell Grocery Co. No. 77,646; Apr. 26; Gaz. vol. 153; p. 1078.
Canned fruits, vegetables, and hominy. See & Company. No. 77,271; Mar. 22; Gaz. vol. 152; p. 955.
Canned fruits, vegetables, and oysters. D. E. Foote & Company. No. 77,989; May 24; Gaz. vol. 154; p. 1103.
Canned fruits, vegetables, baked beans, and oysters. D. E. Foote & Company. No. 77,990; May 24; Gaz. vol. 154; p. 1103.
Canned fruits, vegetables, fish, &c. Charles Hewitt & Sons Company. No. 79,758; Oct. 4; Gaz. vol. 159; p. 238.
Canned fruits, vegetables, fish, succotash, and pumpkin. See & Company. No. 76,631; Feb. 1; Gaz. vol. 151; p. 191.
Canned fruits, vegetables, pork and beans, &c. Kothe, Wells & Bauer Company. No. 80,317; Dec. 6; Gaz. vol. 161; p. 263.
Canned herring-roe. Coulehan & Hogan. No. 79,559; Sept. 20; Gaz. vol. 158; p. 697.
Canned lye-hominy. Crothersville Canning Company. No. 76,277; Jan. 4; Gaz. vol. 150; p. 261.
Canned lye-hominy. J. W. Rider. No. 77,831; May 10; Gaz. vol. 154; p. 510.
Canned lye-hominy. Stokely Bros. & Co. No. 78,462; June 14; Gaz. vol. 155; p. 551.
Canned macaroni, tomato sauce, vegetables, and fish. Strohmeyer & Arpe Company. No. 76,702; Feb. 8; Gaz. vol. 151; p. 447.
Canned meats and sausages. Vette & Zuncker Packing Company. No. 80,329; Dec. 6; Gaz. vol. 161; p. 264.
Canned mushrooms. Steinhardter & Nordlinger. No. 77,843; May 10; Gaz. vol. 154; p. 510.
Canned olives. Akerman & Tuffley. No. 79,713; Oct. 4; Gaz. vol. 159; p. 237.
Canned oysters. Ruge Bros. Canning Company. Nos. 76,600–4; Feb. 1; Gaz. vol. 151; p. 190.
Canned oysters. Cumberland Sound Packing Company. No. 76,904; Feb. 22; Gaz. vol. 151; p. 1010.
Canned oysters. Ruge Bros. Canning Company. No. 77,269; Mar. 22; Gaz. vol. 152; p. 955.
Canned oysters. Ruge Bros. Canning Company. No. 77,334; Mar. 29; Gaz. vol. 152; p. 1220.
Canned oysters. Gibbs Preserving Company. No. 77,534; Apr. 19; Gaz. vol. 153; p. 817.
Canned oysters. Gibbs Preserving Company. Nos. 77,724–5; May 3; Gaz. vol. 154; p. 248.
Canned oysters. Ruge Bros. Canning Company. No. 77,832; May 10; Gaz. vol. 154; p. 510.
Canned oysters. Miller Bros. & Co. No. 78,017; May 24; Gaz. vol. 154; p. 1104.
Canned oysters. Ruge Bros. Canning Company. No. 78,047; May 24; Gaz. vol. 154; p. 1105.
Canned oysters. Ruge Bros. Canning Company. No. 78,208; May 31; Gaz. vol. 154; p. 1407.
Canned oysters. Platt & Co. No. 78,824; July 12; Gaz. vol. 156; p. 535.
Canned oysters, fruits, and vegetables. Platt & Co. No. 79,004; July 26; Gaz. vol. 156; p. 1063.
Canned oysters, prepared mustard, tea, and olives. C. Holton & Co. No. 76,591; Feb. 1; Gaz. vol. 151; p. 189.
Canned oysters, shrimp, and salmon. Getz Bros. & Co. No. 76,510; Jan. 25; Gaz. vol. 150; p. 1037.
Canned pears. Stetson-Barret Co. No 80,328; Dec. 6; Gaz. vol. 161; p. 264.
Canned peas. Waukesha Canning Company. No. 77,015; Mar. 1; Gaz. vol. 152; p. 227.
Canned peppers. Croeniger & Co. No. 77,621; Apr. 26; Gaz. vol. 153; p. 1077.
Canned pineapple. Haiku Fruit and Packing Company. No. 79,906; Oct. 18; Gaz. vol. 159; p. 743.
Canned pork and beans, lye-hominy, and sauer-kraut. The Gibson Canning Company. No. 78,412; June 14; Gaz. vol. 155; p. 549.
Canned, preserved, and dried fruits and canned vegetables. Coast Products Company. No. 80,035; Nov. 1; Gaz. vol. 160; p. 253.
Canned salmon. Alaska Packers Association. No. 76,425; Jan. 18; Gaz. vol. 150; p. 821.
Canned salmon. Columbia River Packers Association. No. 76,680; Feb. 8; Gaz. vol. 151; p. 446.
Canned salmon. Columbia River Packers Association. No. 76,783; Feb. 15; Gaz. vol. 151; p. 726.
Canned salmon. R. D. Hume. No. 77,068; Mar. 8; Gaz. vol. 152; p. 483.
Canned salmon. Alaska Packers Association. No. 77,599; Apr. 26; Gaz. vol. 153; p. 1077.
Canned salmon. John F. Lalla Company. Nos. 77,812–13; May 10; Gaz. vol. 154; pp. 509–10.
Canned salmon. North Pacific Trading & Packing Co. No. 77,948; May 17; Gaz. vol. 154; p. 832.
Canned salmon. Union Fishermen's Co-op. Pack'g Co. No. 77,967; May 17; Gaz. vol. 154; p. 833.
Canned salmon. Alaska Packers Association. No. 77,976; May 24; Gaz. vol. 154; p. 1103.
Canned salmon. Yes Bay Canning Co. No. 78,373; June 7; Gaz. vol. 155; p. 303.
Canned salmon. Union Fishermen's Co-op. Packing Co. No. 78,388; June 7; Gaz. vol. 155; p. 303.
Canned salmon. Deming & Gould Co. Nos. 78,945–54; July 26; Gaz. vol. 156, p. 1061.
Canned salmon. Pacific American Fisheries. Nos. 78,988–99; July 26; Gaz. vol. 156; pp. 1062–3.
Canned salmon. Sanborn-Cutting Co. No. 79,233; Aug. 16; Gaz. vol. 157; p. 750.
Canned salmon. Deming & Gould Co. No. 79,326; Aug. 30; Gaz. vol. 157; p. 1239.
Canned salmon. Fidalgo Island Packing Co. No. 79,414; Sept. 6; Gaz. vol. 158; p. 224.
Canned salmon. Fidalgo Island Packing Co. Nos. 79,482–4; Sept. 13; Gaz. vol. 158; p. 477.
Canned salmon. Fidalgo Island Packing Co. No. 79,664; Sept. 27; Gaz. vol. 158; p. 879.
Canned salmon. Astoria & Puget Sound Canning Co. No. 79,807; Oct. 11; Gaz. vol. 159; p. 485.
Canned salmon. Kelley-Clarke Co. Nos. 80,125–6; Nov. 8; Gaz. vol. 160; p. 489.
Canned salmon. Kelley-Clarke Co. No. 80,186; Nov. 15; Gaz. vol. 160; p. 769.
Canned salmon, sardines, and blended coffee. J. F. Humphreys & Co. No. 76,920; Feb. 22; Gaz. vol. 151; p. 1011.
Canned sardines. Austin, Nichols & Co. No. 76,350; Jan. 11; Gaz. vol. 150; p 565.
Canned sardines. Neptune Packing Company. Nos. 76,766–7; Feb. 15; Gaz. vol. 151; p. 726.
Canned sardines. Milbridge Packing Co. No. 76,922; Feb. 22; Gaz. vol. 151; p. 1011.
Canned sardines. B. M. Shipman No. 77,494; Apr. 12; Gaz. vol. 153; p. 542.
Canned sardines. Strohmeyer & Arpe Company. No. 77,679; Apr. 26; Gaz. vol. 153; p. 1079.
Canned sardines. MacMonnies & Von Elm. No. 77,934; May 17; Gaz. vol. 154; p. 832.
Canned sardines. P. Duff & Sons. No. 78,292; May 31; Gaz. vol. 154; p. 1409.
Canned sardines. De Long Seaman Co. No. 78,405; June 14; Gaz. vol. 155; p. 549.
Canned sardines. B. M. Shipman. No. 78,460; June 14; Gaz. vol. 155; p. 551.
Canned sardines. P. Duff & Sons. No. 79,964; Oct. 25; Gaz. vol. 159; p. 987.
Canned sardines. P. Duff & Sons. No. 80,043; Nov. 1; Gaz. vol. 160; p. 253.
Canned sauer-kraut. J. W. Rider. No. 77,958; May 17; Gaz. vol. 154; p. 833.
Canned sauer-kraut. The Clyde Produce Company. No. 79,471; Sept. 13; Gaz. vol. 158; p. 477.

Alphabetical list of trade-marks—Continued.

Canned tomatoes. The McBrayer Canning Company. No. 78,335; June 7; Gaz. vol. 155; p. 302.
Canned tomatoes. Indiana Canning Company. No. 79,058; Aug. 2; Gaz. vol. 157; p. 204.
Canned tomatoes. The Citizens Canning Company. No. 79,896; Oct. 18; Gaz. vol. 159; p. 743.
Canned tomatoes, pears, corn, &c. John Rothschild & Co. No. 77,001; Mar. 1; Gaz. vol. 152; p. 226.
Canned tomatoes, peas, corn, pumpkin, sauer-kraut, &c. The Wabash Canning Company. No. 77,348; Mar. 29; Gaz. vol. 152; p. 1221.
Canned vegetables. Waukesha Canning Company. No. 76,465; Jan. 18; Gaz. vol. 150; p. 822.
Canned vegetables. The Sears & Nichols Company. No. 76,841; Feb. 15; Gaz. vol. 151; p. 728.
Canned vegetables. Kokomo Canning Company. No. 77,319; Mar. 29; Gaz. vol. 152; p. 1220.
Canned vegetables. J. H. Hoffecker Canning Company. No. 77,419; Apr. 5; Gaz. vol. 153; p. 268.
Canned vegetables. F. P. Cutting Co. No. 77,457; Apr. 12; Gaz. vol. 153; p. 541.
Canned vegetables. Kokomo Canning Company. No. 77,549; Apr. 19; Gaz. vol. 153; p. 818.
Canned vegetables. G. Johnson. Nos. 78,243–5; May 31; Gaz. vol. 154; p. 1408.
Canned vegetables. The Hastings Canning Company. No. 78,382; June 7; Gaz. vol. 155; p. 303.
Canned vegetables. The Scioto Canning Company. Nos. 78,454–6; June 14; Gaz. vol. 155; p. 551.
Canned vegetables. The Crothersville Canning Company. No. 78,590; June 28; Gaz. vol. 155; p. 1037.
Canned vegetables. Driscol, Church & Hall. No. 79,476; Sept. 13; Gaz. vol. 158; p. 477.
Canned vegetables. Faribault Canning Company. No. 79,744; Oct. 4; Gaz. vol. 159; p. 237.
Canned vegetables. Dickinson & Co. Nos. 79,902–3; Oct. 18; Gaz. vol. 159; p. 743.
Canned vegetables. R. C. Williams & Co. No. 79,947; Oct. 18; Gaz. vol. 159; p. 745.
Canned vegetables. California Canneries Co. No. 80,304; Dec. 6; Gaz. vol. 161; p. 263.
Canned vegetables and dried fruits. California Fruit Canners Association. No. 77,171; Mar. 15; Gaz. vol. 152; p. 728.
Canned vegetables and fish. Diehm-Fansler Grocer Company. No. 78,695; July 5; Gaz. vol. 156; p. 253.
Canned vegetables, hominy, and sauer-kraut. Sears & Nichols Company. No. 76,334; Jan. 4; Gaz. vol. 150; p. 263.
Canned vegetables, sauer-kraut, fish, and oysters. Webster Grocer Company. No. 77,592; Apr. 19; Gaz. vol. 153; p. 819.
Canned vegetables, sauer-kraut, hominy, &c. J. T. Polk Company. No. 79,691; Sept. 27; Gaz. vol. 158; p. 880.
Cans, Metal. Continental Can Co. No. 76,433; Jan. 18; Gaz. vol. 150; p. 821.
Cans, Oil-. Eagle Glass & Mfg. Co. No. 78,780; July 12; Gaz. vol. 156; p. 533.
Caps and outer coats. M. J. Baruch. No. 79,030; Aug. 2; Gaz. vol. 157; p. 203.
Caps, Infants' and children's. A. D. Katcher & Bro. No. 80,225; Nov. 22; Gaz. vol. 160; p. 1033.
Capsules containing medicine. D. A. Casella. No. 76,962; Mar. 1; Gaz. vol. 152; p. 225.
Capsules, Vaginal. Everhart & Company. No. 78,076; May 31; Gaz. vol. 154; p. 1403.
Car movers and pushers. W. McLeish. No. 77,477; Apr. 12; Gaz. vol. 153; p. 542.
Carbolic acid, cresol, and disinfectants. F. Raschig. No. 80,238; Nov. 22; Gaz. vol. 160; p. 1034.
Cardio-vascular stimulants and diuretics. Parke, Davis & Co. No. 76,722; Feb. 8; Gaz. vol. 151; p. 447.
Cards, Pinochle score-. H. Fuld. No. 77,869; May 10; Gaz. vol. 154; p. 511.
Cards, Playing-. R. C. Brainard. No. 76,503; Jan. 25; Gaz. vol. 150; p. 1037.
Cards, Playing-. United Drug Company. No. 76,825; Feb. 15; Gaz. vol. 151; p. 727.
Cards, Playing-. A. D. Ley. No. 77,322; Mar. 29; Gaz. vol. 152; p. 1220.
Cards, Playing-. American Bank Note Company. Nos. 78,296–7; June 7; Gaz. vol. 155; p. 301.
Cards, Playing-. Standard Playing Card Co. No. 79,307; Aug. 23; Gaz. vol. 157; p. 996.
Cards, Playing-. F. G. McPherson. No. 80,073; Nov. 1; Gaz. vol. 160; p. 254.
Cards, Playing-. American Bank Note Company. No. 80,204; Nov. 22; Gaz. vol. 160; p. 1033.
Carpet and rugs. Hardwick & Magee Co. No. 78,325; June 7; Gaz. vol. 155; p. 301.
Carpets. Bigelow Carpet Company. No. 78,303; June 7; Gaz. vol. 155; p. 301.
Carpets and rugs. Lister and Company. No. 76,451; Jan. 18; Gaz. vol. 150; p. 821.
Carpets and rugs. The Firth Carpet Company. Nos. 79,330–1; Aug. 30; Gaz. vol. 157; p. 1239.
Carpets, matting, rugs, and curtains. N. E. Boomhower Co. No. 80,403; Dec. 20; Gaz. vol. 161; p. 749.
Carriages, go-carts, and sleds, Children's. Alwin Manufacturing Company. No. 76,749; Feb. 15; Gaz. vol. 151; p. 725.

Carriages, go-carts, sleds, &c., Children's. Alwin Manufacturing Company. No. 80,397; Dec. 20; Gaz. vol. 161; p. 749.
Cartons. The Peltason Company. No. 77,881; May 10; Gaz. vol. 154; p. 512.
Carts and dumping-wagons, Distributing-. American Road Machine Company. No. 79,953; Oct. 25; Gaz. vol. 159; p. 987.
Cash, autographic, and credit registers and their parts. The National Cash Register Company. No. 79,225; Aug. 16; Gaz. vol. 157; p. 750.
Casters, Furniture-. H. M. Alleyn. No. 77,891; May 17; Gaz. vol. 154; p. 831.
Casters, Furniture-. Diamond Steel Truck Co. No. 78,168; May 31; Gaz. vol. 154; p. 1406.
Casting molds, Facing for metal-. Hill & Griffith Co. No. 76,397; Jan. 11; Gaz. vol. 150; p. 566.
Castings and forgings, Metal. William Jessop & Sons. No. 79,060; Aug. 2; Gaz. vol. 157; p. 204.
Catnip, catnip preparation, and catnip-balls. W. E. Smith. No. 80,293; Nov. 29; Gaz. vol. 160; p. 1268.
Catsup. Frazier Packing Company. No. 76,992; Mar. 1; Gaz. vol. 152; p. 226.
Cellars, Metal. O. K. Harry. No. 78,972; July 26; Gaz. vol. 156; p. 1062.
Celluloid manufacture, Substitute for camphor in. Chemische Fabriken vorm. Weiler-ter Meer. No. 79,036; Aug. 2; Gaz. vol. 157; p. 203.
Cement, Adhesive. Robison Bros. No. 76,746; Feb. 15; Gaz. vol. 151; p. 725.
Cement, Adhesive. United Shoe Machinery Company. No. 77,969; May 17; Gaz. vol. 154; p. 833.
Cement, Bituminous. Warren Brothers Company. No. 77,349; Mar. 29; Gaz. vol. 152; p. 1221.
Cement, Building-. The Lawrence Cement Company of Pennsylvania. No. 77,421; Apr. 5; Gaz. vol. 153; p. 268.
Cement, Building-. Sanitary Construction & Mfg. Co. No. 79,012; July 26; Gaz. vol. 156; p. 1063.
Cement, Building-. D. Churchill. No. 79,260; Aug. 23; Gaz. vol. 157; p. 995.
Cement, Fire and water proof. P. R. De Vore. No. 77,710; May 3; Gaz. vol. 154; p. 247.
Cement, Hydraulic. Colloseus Cement Company. No. 80,218; Nov. 22; Gaz. vol. 160; p. 1033.
Cement, plaster, and brick. The White Sands Company. No. 76,732; Feb. 8; Gaz. vol. 151; p. 447.
Cement, Waterproof adhesive. Jewell Belting Company. No. 76,570; Feb. 1; Gaz. vol. 151; p. 189.
Cements, coatings, and mortars, Waterproof masonry. The Waterproofing Co. No. 78,845; July 12; Gaz. vol. 156; p. 535.
Chains and chain ornaments, Ornamental. Standard Button Company. No. 77,677; Apr. 26; Gaz. vol. 153; p. 1079.
Chains, fobs, lockets, and bracelets. Thoma Bros. Co. No. 76,387; Jan. 11; Gaz. vol. 150; p. 566.
Chains, Iron and steel. Mill & Mine Supply Co. No. 78,259; May 31; Gaz. vol. 154; p. 1408.
Chairs. R. S. Calef. No. 76,271; Jan. 4; Gaz. vol. 150; p. 261.
Chairs. Miller & Jennings. No. 77,043; Mar. 1; Gaz. vol. 152; p. 227.
Chairs, davenports, and davenport-beds. C. F. Streit Mfg. Co. No. 78,387; June 7; Gaz. vol. 155; p. 303.
Chairs, tables, stands, racks, &c. Wessborg-Gage Company. No. 76,946; Feb. 22; Gaz. vol. 151; p. 1011.
Chamois-skins. Smith, Kline & French Co. No. 78,834; July 12; Gaz. vol. 156; p. 535.
Charcoal. Manufacturers Charcoal Co. No. 77,324; Mar. 29; Gaz. vol. 152; p. 1220.
Cheese. Roethlisberger & Co. No. 78,367; Aug. 30; Gaz. vol. 157; p. 1240.
Cheese, Cream-. The Cleveland Cream Cheese Co. No. 76,679; Feb. 8; Gaz. vol. 151; p. 446.
Cheese, Cream-. F. B. Lyon. No. 77,933; May 17; Gaz. vol. 154; p. 832.
Cheese, Cream-. Phenix Cheese Company. No. 79,517; Sept. 13; Gaz. vol. 158; p. 478.
Chemical and pharmaceutical preparations, Certain. F. C. Calvert & Co. No. 78,937; July 26; Gaz. vol. 156; p. 1061.
Chemical compounds, Certain. Bird-Archer Company. No. 79,549; Sept. 20; Gaz. vol. 158; p. 697.
Chemical preparation, Certain. H. I. Manley. No. 76,293; Jan. 4; Gaz. vol. 150; p. 261.
Chemical preparation, Certain. Lakewood Chemical Company. No. 77,247; Mar. 22; Gaz. vol. 152; p. 954.
Chemical preparations, Certain. American Apothecaries Company. No. 77,600; Apr. 26; Gaz. vol. 153; p. 1077.
Chemical preparations, Certain. A. G. Letson. No. 80,480; Dec. 27; Gaz. vol. 161; p. 1039.
Chemical solvents. D. L. Soloman. No. 80,160; Nov. 8; Gaz. vol. 160; p. 490.
Chemical substance, Certain. Dr. Rickmann & Rappe, G. m. b. H., Chemische Fabrik. No. 79,933; Oct. 18; Gaz. vol. 159; p. 744.
Chemicals and chemical preparations, Certain. Chemische Werke Kirchhoff & Neirath G. m. b. H. No. 76,808; Feb. 15; Gaz. vol. 151; p. 727.

Alphabetical list of trade-marks—Continued.

Chemicals and pharmaceutical preparations. The Bacorn Company. No. 79,183; Aug. 16; Gaz. vol. 157; p. 749.
Chemicals, Certain. H. S. Wellcome. No. 76,731; Feb. 8; Gaz. vol. 151; p. 447.
Chemicals, Certain. Kimball Bros. Co. No. 77,108; Mar. 8; Gaz. vol. 152; p. 484.
Chemicals, Certain. Merck & Co. No. 79,845; Oct. 11; Gaz. vol. 159; p. 486.
Chemicals, Certain. S. Clague. No. 79,962; Oct. 25; Gaz. vol. 159; p. 987.
Chemicals, Certain. Fritzsche Brothers. No. 80,222; Nov. 22; Gaz. vol. 160; p. 1033.
Chemicals, Certain. Badische Anilin & Soda Fabrik. No. 80,338; Dec. 13; Gaz. vol. 161; p. 525.
Chemicals, starches, and gums. Danker & Marston. No. 79,192; Aug. 16; Gaz. vol. 157; p. 749.
Chemicals, toilet preparations, and medicines, Certain. C. F. A. Sarg. No. 78,452; June 14; Gaz. vol. 155; p. 550.
Chemicals used in reducing, discharging, and bleaching. Badische Anilin & Soda Fabrik. No. 76,958; Mar. 1; Gaz. vol. 152; p. 225.
Chick-starter, chick, poultry, and pigeon food. J. Bolgiano & Son. No. 76,898; Feb. 22; Gaz. vol. 151; p. 1010.
China, Table-. Ben Strauss Company. No. 78,048; May 24; Gaz. vol. 154; p. 1105.
Chinaware. J. J. Miller. No. 78,260; May 31; Gaz. vol. 154; p. 1408.
Chinaware for table use. Società Ceramica Richard Ginori. No. 77,143; Mar. 15; Gaz. vol. 152; p. 727.
Chloroform, Preparation of. Vertriebs-Gesellschaft Prof. Dr. Schliech'scher Präparate G. m. b. H. No. 76,318; Jan. 4; Gaz. vol. 150; p. 262.
Chocolate chips. W. S. Trowbridge. No. 80,162; Nov. 8; Gaz. vol. 160; p. 490.
Chocolate cream drops. The Munger Candy Company. No. 79,849; Oct. 11; Gaz. vol. 159; p. 486.
Chocolate creams. Quaker City Chocolate and Confectionery Company. No. 76,699; Feb. 8; Gaz. vol. 151; p. 446.
Chocolate drops. A. Schopf. No. 79,609; Sept. 20; Gaz. vol. 158; p. 699.
Chocolates. Ingersoll Candy Company. No. 78,179; May 31; Gaz. vol. 154; p. 1406.
Chocolates. Dilling & Company. No. 79,328; Aug. 30; Gaz. vol. 157; p. 1239.
Chocolates and candies. J. O. Gilbert. No. 76,995; Mar. 1; Gaz. vol. 152; p. 226.
Chocolates and candies. E. Greenfield's Son & Co. No. 80,120; Nov. 8; Gaz. vol. 160; p. 489.
Cholagogue. J. D. Riedel Aktiengesellschaft. No. 78,352; June 7; Gaz. vol. 155; p. 302.
Churns and grass-catchers, Barrel-. Norvell-Shapleigh Hardware Company. No. 79,227; Aug. 16; Gaz. vol. 157; p. 750.
Cider. Brocton Fruit Juice Co. No. 76,753; Feb. 15; Gaz. vol. 151; p. 725.
Cider and compound phosphate beverage, Compound. Price & Lucas Cider & Vinegar Co. No. 79,785; Oct. 4; Gaz. vol. 159; p. 239.
Ciders, Fruit-flavored. W. W. White & Co. No. 80,255; Nov. 22; Gaz. vol. 160; p. 1034.
Cigar-boxes. L. W. Keyer. No. 78,979; July 26; Gaz. vol. 156; p. 1062.
Cigars. Gonzalez & Sanchez Co. No. 76,328; Jan. 4; Gaz. vol. 150; p. 262.
Cigars. Justin Seubert, Incorporated. No. 76,340; Jan. 4; Gaz. vol. 150; p. 263.
Cigars. J. Quirbach. No. 76,795; Feb. 15; Gaz. vol. 151; p. 726.
Cigars. Park & Tilford. No. 76,837; Feb. 15; Gaz. vol. 151; p. 728.
Cigars. Foster Caldarera & Co. No. 76,934; Feb. 22; Gaz. vol. 151; p. 1011.
Cigars. A. Breitung. No. 77,035; Mar. 1; Gaz. vol. 152; p. 227.
Cigars. C. F. Quilty. No. 77,044; Mar. 1; Gaz. vol. 152; p. 227.
Cigars. Waitt & Bond. No. 77,120; Mar. 8; Gaz. vol. 152; p. 485.
Cigars. Oriental Products Company. No. 77,263; Mar. 22; Gaz. vol. 152; p. 955.
Cigars. Baer Senior and Company's Successors. No. 77,364; Apr. 5; Gaz. vol. 153; p. 267.
Cigars. H. Traiser & Company. No. 77,466; Apr. 12; Gaz. vol. 153; p. 542.
Cigars. San Telmo Cigar Mfg. Co. Nos. 77,572–3; Apr. 19; Gaz. vol. 153; p. 819.
Cigars. Sig. C. Mayer & Co. No. 77,577; Apr. 19; Gaz. vol. 153; p. 819.
Cigars. Waitt & Bond. No. 77,589; Apr. 19; Gaz. vol. 153; p. 819.
Cigars. San Telmo Cigar Mfg. Co. No. 77,673; Apr. 26; Gaz. vol. 153; p. 1079.
Cigars. San Telmo Cigar Mfg. Co. Nos 77,765–7; May 3; Gaz. vol. 154; p. 249.
Cigars. J. C. Hammer. No. 78,239; May 31; Gaz. vol. 154; p. 1408.
Cigars. S. Levy & Company. No. 78,250; May 31; Gaz. vol. 154; p. 1408.
Cigars. J. F. Wilcox. No. 78,290; May 31; Gaz. vol. 154; p. 1409.
Cigars. Gustav A. Moebs & Co. No. 78,435; June 14; Gaz. vol. 155; p. 550.
Cigars. C. O. Murias y Cia. No. 78,539; June 21; Gaz. vol. 155; p. 796.
Cigars. J. O. Therien. No. 78,837; July 12; Gaz. vol. 156; p. 535.
Cigars. Schubert Cigar Company. No. 78,911; July 19; Gaz. vol. 156; p. 794.
Cigars. E. Myers. No. 78,984; July 26; Gaz. vol. 156; p. 1062.
Cigars. J. Weinreich. No. 79,020; July 26; Gaz. vol. 156; p. 1063.
Cigars. J. E. Conway. No. 79,105; Aug. 9; Gaz. vol. 157; p. 481.
Cigars. Justin Seubert, Inc. No. 79,303; Aug. 23; Gaz. vol. 157; p. 996.
Cigars. E. Paradis. No. 79,363; Aug. 30; Gaz. vol. 157; p. 1240.
Cigars. Y. Pendas & Alvarez. No. 79,515; Sept. 13; Gaz. vol. 158; p. 478.
Cigars. Compañia General de Tabacos de Filipinas. Nos. 79,720–9; Oct. 4; Gaz. vol. 159; p. 237.
Cigars. Compañia General de Tabacos de Filipinas. Nos. 79,732–6; Oct. 4; Gaz. vol. 159; p. 237.
Cigars. L. J. Mendez. No. 79,776; Oct. 4; Gaz. vol. 159; p. 238.
Cigars. E. Myers. No. 79,923; Oct. 18; Gaz. vol. 159; p. 744.
Cigars. B. Bercovich. No. 80,023; Nov. 1; Gaz. vol. 160; p. 253.
Cigars. Compañia General de Tabacos de Filipinas. Nos. 80,037–40; Nov. 1; Gaz. vol. 160; p. 253.
Cigars. A. Breitung. No. 80,169; Nov. 15; Gaz. vol. 160; p. 769.
Cigars. A. De Marco. No. 80,416; Dec. 20; Gaz. vol. 161; p. 749.
Cigars. F. Lozano, Son & Co. No. 80,432; Dec. 20; Gaz. vol. 161; p. 750.
Cigars and cigarettes. Baer Senior and Company's Successors. No. 77,363; Apr. 5; Gaz. vol. 153; p. 267.
Cigars and cigarettes. Baer Senior and Company's Successors. No. 77,507; Apr. 19; Gaz. vol. 153; p. 817.
Cigars and cigarettes. F. A. Cauchois. No. 78,585; June 28; Gaz. vol. 155; p. 1037.
Cigars and cigarettes. Kuenzle & Streiff. No. 80,061; Nov. 1; Gaz. vol. 160; p. 254.
Cigars and leaf-tobacco. F. Bolano. No. 78,577; June 28; Gaz. vol. 155; p. 1037.
Cigars and smoking-tobacco. A. De Marco. No. 78,014; May 24; Gaz. vol. 154; p. 1104.
Cigars and tobacco. Davis Brothers. No. 79,262; Aug. 23; Gaz. vol. 157; p. 995.
Cigars, cheroots, and cigarettes. Cayey-Caguas Tobacco Company. No. 77,514; Apr. 19; Gaz. vol. 153; p. 817.
Cigars, cheroots, and cigarettes. Cayey-Caguas Tobacco Company. No. 77,791; May 10; Gaz. vol. 154; p. 509.
Cigars, cheroots, and little cigars. S. H. Harris. No. 78,514; June 21; Gaz. vol. 155; p. 796.
Cigars, cheroots, and stogies. J. H. Lucke Co. No. 76,310; Jan. 4; Gaz. vol. 150; p. 262.
Cigars, cigarettes, and tobacco. Markt & Hammacher Company. Nos. 78,533–4; June 21; Gaz. vol. 155; p. 796.
Cigars, cigarettes, and tobacco. Gibson Canning Company. No. 79,049; Aug. 2; Gaz. vol. 157; p. 203.
Cigars, cigarettes, and tobacco. Lilly, Dungan & Co. No. 79,501; Sept. 13; Gaz. vol. 158; p. 478.
Cigars, cigarettes, and tobacco. H. F. Martin. No. 80,136; Nov. 8; Gaz. vol. 160; p. 490.
Cigars, cigarettes, and tobacco. Markt & Hammacher Company. No. 80,433; Dec. 20; Gaz. vol. 161; p. 750.
Cigars, little cigars, cigarettes, and smoking-tobacco. Lilly, Dungan & Co. No. 79,433; Sept. 6; Gaz. vol. 158; p. 224.
Cigars, tobies, and cheroots. The Standard Cigar Company of Pittsburgh, Pa. No. 76,800; Feb. 15; Gaz. vol. 151; p. 727.
Cigarette-paper. Braunstein & Cie. Nos. 76,735–6; Feb. 15; Gaz. vol. 151; p. 725.
Cigarette-paper. Braunstein & Cie. Nos. 77,444–6; Apr. 12; Gaz. vol. 153; p. 541.
Cigarette-paper. Braunstein & Cie. No. 77,900; May 17; Gaz. vol. 154; p. 831.
Cigarettes. A. P. Parascouly & Co. No. 77,481; Apr. 12; Gaz. vol. 153; p. 542.
Cigarettes. Pappas Tobacco Manufacturing Company. No. 77,562; Apr. 19; Gaz. vol. 153; p. 818.
Cigarettes. W. P. Muller. No. 77,942; May 17; Gaz. vol. 154; p. 832.
Cigarettes. Autolite Manufacturing Company. No. 78,392; June 14; Gaz. vol. 155; p. 549.
Cigarettes. Estabrook & Eaton. No. 78,501; June 21; Gaz. vol. 155; p. 795.
Cigarettes. Erwin-Nadal Tobacco Co. No. 80,309; Dec. 6; Gaz. vol. 161; p. 263.
Cigarettes. National Cigarette Company. No. 80,487; Dec. 27; Gaz. vol. 161; p. 1040.
Cigarettes and smoking-tobacco. Abdulla & Co. No. 79,623; Sept. 20; Gaz. vol. 158; p. 699.

Alphabetical list of trade-marks—Continued.

Cigarettes, cigars, and tobacco. Teofani & Co. No. 80,449; Dec. 20; Gaz. vol. 161; p. 750.
Cigarettes, Turkish. P. De Nobili & Co. No. 79,193; Aug. 16; Gaz. vol. 157; p. 749.
Clamps, Box safety-. E. C. Glardon. No. 77,994; May 24; Gaz. vol. 154; p. 1103.
Cleaners, Vacuum-. F. Wardell. No. 79,946; Oct. 18; Gaz. vol. 159; p. 744.
Cleaning and polishing material, Wood. F. X. Murawski. No. 79,851; Oct. 11; Gaz. vol. 159; p. 486.
Cleaning and polishing silver, gold, &c., Preparation for. F. P. Iannarone. No. 80,477; Dec. 27; Gaz. vol. 161; p. 1039.
Cleaning and renovating apparatus and parts thereof, Pneumatic. Electric Renovator Manufacturing Co. No. 76,686; Feb. 8; Gaz. vol. 151; p. 446.
Cleaning and scouring tools. The Rapid Knife & Fork Cleaner Co. No. 80,151; Nov. 8; Gaz. vol. 160; p. 490.
Cleaning apparatus, Vacuum. Vacuum Specialty Manufacturing Company. No. 78,919; July 19; Gaz. vol. 156; p. 795.
Cleaning apparatus, Vacuum. United States Vacuum Cleaner Company. No. 80,450; Dec. 20; Gaz. vol. 161; p. 750.
Cleaning compound. J. H. Kuhl. No. 78,980; July 26; Gaz. vol. 156; p. 1062.
Cleaning compound, Paint and varnish. A. M. Rausch. No. 79,636; Sept. 20; Gaz. vol. 158; p. 699.
Cleaning devices and parts thereof, Air. A. S. Cahn. No. 79,815; Oct. 11; Gaz. vol. 159; p. 485.
Cleaning-paste. A. Marsh. No. 78,720; July 5; Gaz. vol. 156; p. 254.
Cleaning preparation. M. S. Manning. No. 77,554; Apr. 19; Gaz. vol. 153; p. 818.
Cleaning substances. Electric Compound Co. No. 77,910; May 17; Gaz. vol. 154; p. 831.
Cleanser for household purposes, &c. B. T. Babbitt. No. 79,389; Sept. 6; Gaz. vol. 158; p. 223.
Cleansing compound, Chemical. Oakley Chemical Co. No. 80,287; Nov. 29; Gaz. vol. 160; p. 1267.
Cleansing compounds and soaps. Empire Soap Company. No. 79,413; Sept. 6; Gaz. vol. 158; p. 223.
Cloaks and outer suits. Harrison & Siegel. No. 76,512; Jan. 25; Gaz. vol. 150; p. 1037.
Cloaks and suits. Sunshine Cloak and Suit Company. No. 76,981; Mar. 1; Gaz. vol. 152; p. 226.
Cloaks and suits, Ladies'. L. Cohen & Co. No. 77,792; May 10; Gaz. vol. 154; p. 509.
Cloaks, coats, and capes, Waterproof. The New York Mackintosh Company. No. 79,926; Oct. 18; Gaz. vol. 159; p. 744.
Cloaks, dresses, and coats. H. Goldwater. No. 78,601; June 28; Gaz. vol. 155; p. 1038.
Clocks. T. Schisgall. No. 79,084; Aug. 2; Gaz. vol. 157; p. 204.
Clocks. Western Clock Mfg. Co. No. 79,089; Aug. 2; Gaz. vol. 157; p. 204.
Clocks. T. Schisgall. No. 79,157; Aug. 9; Gaz. vol. 157; p. 482.
Clocks and watches. Western Clock Mfg. Co. No. 76,576; Feb. 1; Gaz. vol. 151; p. 189.
Clocks and watches. The Western Clock Mfg. Co. Nos. 77,855–6; May 10; Gaz. vol. 154; p. 511.
Clocks and watches. The Western Clock Mfg. Co. No. 78,146; May 31; Gaz. vol. 154; p. 1405.
Clocks and watches. The Western Clock Mfg. Co. No. 78,474; June 14; Gaz. vol. 155; p. 551.
Clocks and watches. The Western Clock Mfg. Co. No. 78,561; June 21; Gaz. vol. 155; p. 797.
Clocks and watches. Western Clock Mfg. Co. No. 78,751; July 5; Gaz. vol. 156; p. 255.
Clocks and watches. The Western Clock Mfg. Co. Nos. 79,874–5; Oct. 11; Gaz. vol. 159; p. 487.
Clocks and watches. Western Clock Mfg. Co. No. 80,503; Dec. 27; Gaz. vol. 161; p. 1040.
Clocks, Electric. Aktiebolaget L. M. Ericsson & Co. No. 77,783; May 10; Gaz. vol. 154; p. 509.
Clockworks, watchcases, &c. Vereinigte Uhrenfabriken von Gebrüder Junghans und Thomas Haller A.-G. No. 77,347; Mar. 29; Gaz. vol. 152; p. 1220.
Closet-tanks. Bowles Company. No. 76,871; Feb. 22; Gaz. vol. 151; p. 1009.
Cloth, Shoe-. C. Stohn's Son's. No. 79,169; Aug. 9; Gaz. vol. 157; p. 483.
Cloth, Waterproof. H. W. Fleddermann Co. No. 78,784; July 12; Gaz. vol. 156; p. 533.
Clothes-lines, Cotton. Francis H. Leggett & Co. No. 79,767; Oct. 4; Gaz. vol. 159; p. 238.
Clothes-pins. Oval Wood Dish Co. No. 77,950; May 17; Gaz. vol. 154; p. 832.
Clothes-trees. R. G. Krueger. No. 79,679; Sept. 27; Gaz. vol. 158; p. 880.
Clothing. Bifurcated night-. G. A. Ford. No. 76,855; Feb. 22; Gaz. vol. 151; p. 1009.
Clothing, Certain. J. E. Hurst & Company. No. 76,670; Feb. 8; Gaz. vol. 151; p. 446.
Clothing, Certain. C. M. Gregory. No. 77,234; Mar. 22; Gaz. vol. 152; p. 954.
Clothing, Certain. Gory & Heller. No. 77,307; Mar. 29; Gaz. vol. 152; p. 1219.
Clothing, Certain. Neustadter Brothers. No. 77,325; Mar. 29; Gaz. vol. 152; p. 1220.
Clothing, Certain. Samuel M. Foster Company. No. 77,336; Mar. 29; Gaz. vol. 152; p. 1220.
Clothing, Certain. John V. Farwell Company. No. 77,374; Apr. 5; Gaz. vol. 153; p. 267.
Clothing, Certain. J. Wanamaker. No. 77,384; Apr. 5; Gaz. vol. 153; p. 267.
Clothing, Certain. Neustadter Brothers. No. 77,479; Apr. 12; Gaz. vol. 153; p. 542.
Clothing, Certain. The Truefitte Underwear Co. No. 77,587; Apr. 19; Gaz. vol. 153; p. 819.
Clothing, Certain. Michaels, Stern & Co. No. 77,745; May 3; Gaz. vol. 154; p. 248.
Clothing, Certain. Rice-Stix Goods Company. No. 77,758; May 3; Gaz. vol. 154; p. 248.
Clothing, Certain. Cohn Goodman Company. No. 77,793; May 10; Gaz. vol. 154; p. 509.
Clothing, Certain. H. N. Palmer. No. 77,827; May 10; Gaz. vol. 154; p. 510.
Clothing, Certain. E. Leurent. No. 77,929; May 17; Gaz. vol. 154; p. 832.
Clothing, Certain. M. Goldenberg. No. 77,996; May 24; Gaz. vol. 154; p. 1103.
Clothing, Certain. M. Goldenberg. No. 78,086; May 31; Gaz. vol. 154; p. 1404.
Clothing, Certain. Susquehanna Silk Mills. No. 78,140; May 31; Gaz. vol. 154; p. 1405.
Clothing, Certain. Bonwit, Harris & Co. No. 78,305; June 7; Gaz. vol. 155; p. 301.
Clothing, Certain. J. A. Guillaume. No. 78,324; June 7; Gaz. vol. 155; p. 301.
Clothing, Certain. R. H. Macy & Co. No. 78,333; June 7; Gaz. vol. 155; p. 302.
Clothing, Certain. S. J. Levy & Son. No. 78,426; June 14; Gaz. vol. 155; p. 550.
Clothing, Certain. J. A. Ruhl Clothing Company. No. 78,449; June 14; Gaz. vol. 155; p. 550.
Clothing, Certain. Susquehanna Silk Mills. No. 78,467; June 14; Gaz. vol. 155; p. 551.
Clothing, Certain. The Geo. De Wald Company. No. 78,666; June 28; Gaz. vol. 155; p. 1039.
Clothing, Certain. N. Stein & Co. No. 79,017; July 26; Gaz. vol. 156; p. 1063.
Clothing, Certain. J. Yeska. No. 79,023; July 26; Gaz. vol. 156; p. 1063.
Clothing, Certain. Shull-Day Co. No. 79,161; Aug. 9; Gaz. vol. 157; p. 483.
Clothing, Certain. C. H. Dudley. No. 79,657; Sept. 27; Gaz. vol. 158; p. 879.
Clothing, Certain. Levi Strauss & Co. No. 79,707; Sept. 27; Gaz. vol. 158; p. 881.
Clothing, Certain. The New Era Manufacturing Company. No. 79,925; Oct. 18; Gaz. vol. 159; p. 744.
Clothing, Certain. Salt's Textile Manufacturing Company. No. 79,934; Oct. 18; Gaz. vol. 159; p. 744.
Clothing, Certain. S. H. Camp. No. 80,033; Nov. 1; Gaz. vol. 160; p. 253.
Clothing, Certain. Thomas G. Plant Co. No. 80,195; Nov. 15; Gaz. vol. 160; p. 769.
Clothing, Certain. Kahn & Frank. No. 80,363; Dec. 13; Gaz. vol. 161; p. 525.
Clothing, Certain. A. I. Levy. No. 80,368; Dec. 13; Gaz. vol. 161; p. 526.
Clothing, Certain. S. Clague. No. 80,410; Dec. 20; Gaz. vol. 161; p. 749.
Clothing, Certain. R. Kirshbaum & Son. No. 80,428; Dec. 20; Gaz. vol. 161; p. 750.
Clothing, Certain. E. Leurent. No. 80,481; Dec. 27; Gaz. vol. 161; p. 1039.
Clothing, Certain named. Mendels Brothers. No. 79,292; Aug. 23; Gaz. vol. 157; p. 996.
Clothing, Certain named. Rouse, Hempstone & Co. No. 79,302; Aug. 23; Gaz. vol. 157; p. 996.
Clothing, Certain named. Up to Date Cloak Manufacturing Company. No. 79,378; Aug. 30; Gaz. vol. 157; p. 1240.
Clothing, Certain named. Baltimore Bargain House. No. 79,398; Sept. 6; Gaz. vol. 158; p. 223.
Clothing, Infants'. D. T. Cook. No. 76,276; Jan. 4; Gaz. vol. 150; p. 261.
Clothing, Oiled. Western Oiled Clothing Co. No. 77,775; May 3; Gaz. vol. 154; p. 249.
Coal. Castner, Curran & Bullitt. No. 76,709; Feb. 8; Gaz. vol. 151; p. 447.
Coal. Atlantic & Eastern Coal Co. No. 77,116; Mar. 8; Gaz. vol. 152; p. 485.
Coal. W. D. Althouse. No. 78,155; May 31; Gaz. vol. 154; p. 1406.
Coal. The Snead & Meguire Coal Company. No. 78,211; May 31; Gaz. vol. 154; p. 1407.
Coal. Raven Red Ash Coal Co. No. 78,443; June 14; Gaz. vol. 155; p. 550.
Coal. The Middle Creek Coal Company. No. 80,191; Nov. 15; Gaz. vol. 160; p. 769.
Coal and coke. Independent Coal & Coke Co. No. 76,592; Feb. 1; Gaz. vol. 151; p. 189.
Coal and coke. Independent Coal & Coke Co. Nos. 76,917–18; Feb. 22; Gaz. vol. 151; p. 1011.
Coal, Anthracite. W. G. Morton. No. 77,780; May 3; Gaz. vol. 154; p. 249.

Coal, Anthracite and bituminous. Coal Hill Coal Co. No. 77,100; Mar. 8; Gaz. vol. 152; p. 484.
Coal, Bituminous. National Coal Company. No. 78,194; May 31; Gaz. vol. 154; p. 1407.
Coats and coat-collars. M. Koppelman. No. 77,073; Mar. 8; Gaz. vol. 152; p. 483.
Coats and overcoats. H. Freedman. No. 77,804; May 10; Gaz. vol. 154; p. 509.
Coats, capes, dresses, and outer suits. H. Kitzinger. No. 76,744; Feb. 15; Gaz. vol. 151; p. 725.
Coats, cloaks, wraps, capes, and dresses. The Salt's Textile Manufacturing Company. No. 79,864; Oct. 11; Gaz. vol. 159; p. 486.
Coats, overcoats, and rain-coats. Cohen, Goldman & Co. No. 79,026; July 26; Gaz. vol. 156; p. 1063.
Coats, Rainproof. B. Birnbaum & Son. No. 76,959; Mar. 1; Gaz. vol. 152; p. 225.
Coats, vests, and trousers. Perlman Brothers. No. 77,483; Apr. 12; Gaz. vol. 153; p. 542.
Coating stone and other materials, Chemical compound for. J. H. Hamlin. No. 79,492; Sept. 13; Gaz. vol. 158; p. 478.
Cocks, Ball-. Union Metal Works. No. 78,554; June 21; Gaz. vol. 155; p. 797.
Cocktails. New York and Kentucky Co. No. 76,417; Jan. 11; Gaz. vol. 150; p. 567.
Cocoa. Suchard, S. A. No. 77,966; May 17; Gaz. vol. 154; p. 833.
Cocoa and malt and chocolate and malt, Compounds of. J. Meinl. No. 80,074; Nov. 1; Gaz. vol. 160; p. 254.
Codfish, cusk, haddock, and hake. Lane-Libby Fisheries Co. No. 79,063; Aug. 2; Gaz. vol. 157; p. 204.
Coffee. Telfer Coffee Company. No. 76,497; Jan. 18; Gaz. vol. 150; p. 823.
Coffee. Sherman Bros. & Co. No. 76,606; Feb. 1; Gaz. vol. 151; p. 190.
Coffee. The Western Coffee Co. No. 76,704; Feb. 8; Gaz. vol. 151; p. 447.
Coffee. Fort Smith Coffee Company. No. 76,912; Feb. 22; Gaz. vol. 151; p. 1010.
Coffee. Hill Bros. No. 76,915; Feb. 22; Gaz. vol. 151; p. 1011.
Coffee. Francis H. Leggett & Company. No. 77,459; Apr. 12; Gaz. vol. 153; p. 541.
Coffee. Dwinell-Wright Company. No. 77,625; Apr. 26; Gaz. vol. 153; p. 1077.
Coffee. Oliver-Finnie Co. No. 77,670; Apr. 26; Gaz. vol. 153; p. 1079.
Coffee. The G. B. Farrington Company. No. 77,720; May 3; Gaz. vol. 154; p. 247.
Coffee. L. N. Ward. No. 77,859; May 10; Gaz. vol. 154; p. 511.
Coffee. The E. C. Harley Co. No. 78,001; May 24; Gaz. vol. 154; p. 1103.
Coffee. Hanley & Kinsella Coffee & Spice Company. No. 78,174; May 31; Gaz. vol. 154; p. 1406.
Coffee. Jas. H. Forbes Tea & Coffee Company. Nos. 78,699–700; July 5; Gaz. vol. 156; pp. 253–4.
Coffee. Merck & Co. No. 78,723; July 5; Gaz. vol. 156; p. 254.
Coffee. Jas. H. Forbes Tea & Coffee Company. No. 78,785; July 12; Gaz. vol. 156; p. 533.
Coffee. Reynolds, Davis & Company. No. 78,908; July 19; Gaz. vol. 156; p. 794.
Coffee. Woolson Spice Company. Nos. 78,923–4; July 19; Gaz. vol. 156; p. 795.
Coffee. E. B. Millar & Co. Nos. 79,071–2; Aug. 2; Gaz. vol. 157; p. 204.
Coffee. Merck & Co. No. 79,137; Aug. 9; Gaz. vol. 157; p. 482.
Coffee. J. W. Patterson. No. 79,151; Aug. 9; Gaz. vol. 157; p. 482.
Coffee. L. D. Margolis. No. 79,290; Aug. 23; Gaz. vol. 157; p. 996.
Coffee. Merck & Co. No. 79,438; Sept. 6; Gaz. vol. 158; p. 224.
Coffee. T. Wood & Co. No. 79,619; Sept. 20; Gaz. vol. 158; p. 699.
Coffee. Jas. H. Forbes Tea & Coffee Company. No. 79,666; Sept. 27; Gaz. vol. 158; p. 879.
Coffee. C. W. Antrim & Sons. No. 79,806; Oct. 11; Gaz. vol. 159; p. 485.
Coffee. Gohl & King. No. 79,828; Oct. 11; Gaz. vol. 159; p. 485.
Coffee. E. B. Millar & Co. No. 79,996; Oct. 25; Gaz. vol. 159; p. 988.
Coffee. Foster, Caldarera & Co. No. 80,179; Nov. 15; Gaz. vol. 160; p. 769.
Coffee. C. E. Brown & Co. No. 80,405; Dec. 20; Gaz. vol. 161; p. 749.
Coffee and blended tea, Blended roasted. American Coffee Co. of N. O. No. 76,677; Feb. 8; Gaz. vol. 151; p. 446.
Coffee and canned fruits and vegetables. The H. D. Lee Mercantile Company. No. 78,757; July 5; Gaz. vol. 156; p. 255.
Coffee and chicory compound and blended tea. American Coffee Co. of New Orleans. No. 77,435; Apr. 12; Gaz. vol. 153; p. 541.
Coffee and chicory, Compound of. Oliver-Finnie Co. No. 77,135; Mar. 15; Gaz. vol. 152; p. 727.
Coffee and chicory, Compound of. The Reily-Taylor Company. No. 77,957; May 17; Gaz. vol. 154; p. 833.
Coffee and chicory, Roasted. Sherman Bros. & Co. No. 77,338; Mar. 29; Gaz. vol. 152; p. 1220.
Coffee and cocoa, Blended. S. Zechnowitz. No. 80,014; Oct. 25; Gaz. vol. 159; p. 988.
Coffee and tea. National Coffee Co. No. 76,527; Jan. 25; Gaz. vol. 150; p. 1037.
Coffee and tea. Norton & Curd Coffee Co. No. 78,816; July 12; Gaz. vol. 156; p. 534.
Coffee and tea, Blended. Griggs, Cooper & Co. No. 77,130; Mar. 15; Gaz. vol. 152; p. 727.
Coffee and tea, flavoring extracts, and spices. Hanley & Kinsella Coffee & Spice Company. No. 79,279; Aug. 23; Gaz. vol. 157; p. 996.
Coffee and tea, Roasted. U. Danenberg. No. 78,778; July 12; Gaz. vol. 156; p. 533.
Coffee, Blended. Puhl-Webb Co. No. 76,298; Jan. 4; Gaz. vol. 150; p. 262.
Coffee, Blended. Young Bros. No. 76,346; Jan. 4; Gaz. vol. 150; p. 263.
Coffee, Blended. Norton & Curd Coffee Co. No. 76,595; Feb. 1; Gaz. vol. 151; p. 190.
Coffee, Blended. Western Coffee Co. No. 76,947; Feb. 22; Gaz. vol. 151; p. 1011.
Coffee, Blended. G. H. Ballou Company. No. 76,993; Mar. 1; Gaz. vol. 152; p. 226.
Coffee, Blended. Western Coffee Co. Nos. 77,080–1; Mar. 8; Gaz. vol. 152; p. 484.
Coffee, Blended. J. S. Elliott. No. 77,523; Apr. 19; Gaz. vol. 153; p. 817.
Coffee, Blended. Austin Nichols & Co. No. 78,035; May 24; Gaz. vol. 154; p. 1104.
Coffee, Blended. Green & Mars. No. 78,963; July 26; Gaz. vol. 156; p. 1062.
Coffee, Blended. J. M. Bour Company. No. 79,034; Aug. 2; Gaz. vol. 157; p. 203.
Coffee, Blended. Austin, Nichols & Co. No. 79,182; Aug 16; Gaz. vol. 157; p. 749.
Coffee, Blended. The H. D. Lee Mercantile Company. No. 79,590; Sept. 20; Gaz. vol. 158; p. 698.
Coffee, Blended roasted. Dechman Coffee & Spice Mills. No. 77,353; Mar. 29; Gaz. vol. 152; p. 1221.
Coffee, Blended roasted. Edwin J. Gillies & Co. of Kentucky. No. 78,413; June 14; Gaz. vol. 155; p. 549.
Coffee-clarifier. Koffee Klear Co. No. 78,609; June 28; Gaz. vol. 155; p. 1038.
Coffee partially freed from caffein. Merck & Co. No. 78,536; June 21; Gaz. vol. 155; p. 796.
Coffee-pots, Percolating. The New England Enameling Company. No. 77,748; May 3; Gaz. vol. 154; p. 248.
Coffee, Roasted. Steinwender-Stoffregen Coffee Co. No. 76,533; Jan. 25; Gaz. vol. 150; p. 1038.
Coffee, Roasted. G. B. Farrington Company. No. 76,758; Feb. 15; Gaz. vol. 151; p. 725.
Coffee, Roasted. C. E. Brown & Co. No. 76,985; Mar. 1; Gaz. vol. 152; p. 226.
Coffee, Roasted. Steinwender-Stoffregen Coffee Co. No. 77,965; May 17; Gaz. vol. 154; p. 833.
Coffee, Roasted. J. Strong & Company. No. 78,744; July 5; Gaz. vol. 156; p. 255.
Coffee, Roasted. Dayton Spice Mills Co. No. 79,040; Aug. 2; Gaz. vol. 157; p. 203.
Coffee, Roasted. J. J. Schotten. No. 80,002; Oct. 25; Gaz. vol. 159; p. 988.
Coffee, Roasted and ground. J. A. Folger & Company. No. 77,318; Mar. 29; Gaz. vol. 152; p. 1220.
Coffee, spices, and flavoring extracts. The R. T. French Company. No. 78,667; June 28; Gaz. vol. 155; p. 1039.
Coffee, spices, and flavoring extracts. Nave-McCord Mercantile Co. No. 79,357; Aug. 30; Gaz. vol. 157; p. 1240.
Coffee substitute. A. Walton. No. 79,379; Aug. 30; Gaz. vol. 157; p. 1241.
Coffee, tea, molasses, and spices, Blended. Norton & Curd Coffee Co. No. 76,596; Feb. 1; Gaz. vol. 151; p. 190.
Coffee, tea, spices, and flavoring extracts. Rogers Company. No. 80,085; Nov. 1; Gaz. vol. 160; p. 255.
Coffee, Vegetable composition to be blended with. S. Trauth. No. 76,775; Feb. 15; Gaz. vol. 151; p. 726.
Coffees. W. McMurray. No. 76,695; Feb. 8; Gaz. vol. 151; p. 446.
Coffees and teas. The Gasser Coffee Company. No. 78,706; July 5; Gaz. vol. 156; p. 254.
Coffees, teas, and spices. William S. Scull Company. No. 78,648; June 28; Gaz. vol. 155; p. 1039.
Coin-controlled holders and vending-machines. F. Cestero. No. 80,407; Dec. 20; Gaz. vol. 161; p. 749.
Collar and harness pads and housings, Horse-. Burlington Blanket Company. No. 77,196; Mar. 22; Gaz. vol. 152; p. 953.
Collar-stiffeners. L. Hollander. No. 77,372; Apr. 5; Gaz. vol. 153; p. 267.
Collar-supporters. J. W. Schloss & Co. No. 76,519; Jan. 25; Gaz. vol. 150; p. 1037.
Collar-supporters. J. W. Schloss & Co. No. 77,337; Mar. 29; Gaz. vol. 152; p. 1220.
Collar-supporters. Till Manufacturing Company. No. 79,309; Aug. 23; Gaz. vol. 157; p. 996.

Alphabetical list of trade-marks—Continued.

Coloring-matters. Badische Anilin & Soda Fabrik. No. 76,268; Jan. 4; Gaz. vol. 150; p. 261.
Coloring-matters. Badische Anilin & Soda Fabrik. No. 77,192; Mar. 22; Gaz. vol. 152; p. 953.
Colors, Dry mortar-. G. S. Mepham & Co. No. 76,401; Jan. 11; Gaz. vol. 150; p. 566.
Colors in oil. Acme White Lead & Color Works. No. 79,637; Sept. 27; Gaz. vol. 158; p. 879.
Combs. O. Walter-Obrecht. No. 76,804; Feb. 15; Gaz. vol. 151; p. 727.
Combs. Hanover Vulcanite Company. No. 76,949; Mar. 1; Gaz. vol. 152; p. 225.
Combs, hair-pins, barrettes, and bandeaux, Ladies'. J. L. Glauberg Co. No. 77,922; May 17; Gaz. vol. 154; p. 832.
Comforts. The Pittsburgh Dry Goods Company. No. 77,954; May 17; Gaz. vol. 154; p. 832.
Composition, Certain. F. A. Thompson. No. 78,469; June 14; Gaz. vol. 155; p. 551.
Compound for certain purposes. A. Seidman. No. 78,134; May 31; Gaz. vol. 154; p. 1405.
Compound for treating heart disease. C. Runyon. No. 76,925; Feb. 22; Gaz. vol. 151; p. 1011.
Concrete-mixers and concrete-stone machines. G. C. Christopher & Son. No. 77,155; Mar. 15; Gaz. vol. 152; p. 728.
Concrete surfaces, Preparation for treating. Ransome Concrete Machinery Co. No. 79,153; Aug. 9; Gaz. vol. 157; p. 482.
Concrete tiles, posts, and blocks. D. Churchill. No. 79,037; Aug. 2; Gaz. vol. 157; p. 203.
Condiment of the nature of ground pepper. J. J. Schotten. No. 77,007; Mar. 1; Gaz. vol. 152; p. 226.
Condiment similar to chilli sauce. Atlas Preserving Co. No. 78,673; July 5; Gaz. vol. 156; p. 253.
Confectionery, wafers, lozenges, and tablets. National Wafer Company. No. 78,340; June 7; Gaz. vol. 155; p. 302.
Confections, Fruit. M. Tyndale. No. 79,799; Oct. 4; Gaz. vol. 159; p. 239.
Construction materials, Certain. Ornamental Marble & Tile Company. No. 78,732; July 5; Gaz. vol. 156; p. 254.
Cooking utensils, Metal. Perforated Plate Company. No. 77,150; Mar. 15; Gaz. vol. 152; p. 727.
Cooking utensils, Metallic. The Lockwood Manufacturing Co. No. 78,254; May 31; Gaz. vol. 154; p. 1408.
Copper, Sulfate of. Strawsons & Company. No. 78,139; May 31; Gaz. vol. 154; p. 1405.
Copper, zinc, lead, aluminium, and their alloys. Birmingham Metal & Munitions Co. No. 76,321; Jan. 4; Gaz. vol. 150; p. 262.
Cord, Cotton. Samson Cordage Works. No. 80,198; Nov. 15; Gaz. vol. 160; p. 770.
Cord, Sash-. Norvell-Shapleigh Hardware Company. No. 78,729; July 5; Gaz. vol. 156; p. 254.
Cordial, Cherry. P. F. Heering. No. 80,422; Dec. 20; Gaz. vol. 161; p. 749.
Cordial, Distilled peppermint. Stark Distillery Co. No. 78,546; June 21; Gaz. vol. 155; p. 797.
Cordial, Lime-juice. The Finsbury Distillery Co. No. 79,202; Aug. 16; Gaz. vol. 157; p. 749.
Cordials. C. H. Garnier. No. 80,049; Nov. 1; Gaz. vol. 160; p. 254.
Cork. T. D. Jorge. Nos. 77,781–2; May 3; Gaz. vol. 154; p. 249.
Cork. International Cork Company. No. 78,607; June 28; Gaz. vol. 155; p. 1038.
Corn-flakes. American Hominy Company. No. 77,601; Apr. 26; Gaz. vol. 153; p. 1077.
Cornmeal. Gulfport Grocery Co. No. 77,418; Apr. 5; Gaz. vol. 153; p. 268.
Cornets, trumpets, French horns, &c. The Rudolph Wurlitzer Co. No. 78,663; June 28; Gaz. vol. 155; p. 1039.
Corset clasps, steels, and stiffeners. Brown Durrell Co. No. 79,254; Aug. 23; Gaz. vol. 157; p. 995.
Corset-waists. The H & W Company. No. 77,098; Mar. 8; Gaz. vol. 152; p. 484.
Corsets. Birdsey-Somers Co. Nos. 76,427–8; Jan. 18; Gaz. vol. 150; p. 821.
Corsets. Chas. A. Stevens & Bros. No. 76,738; Feb. 15; Gaz. vol. 151; p. 725.
Corsets. J. Garfinkle. No. 77,067; Mar. 8; Gaz. vol. 152; p. 483.
Corsets. Kops Bros. No. 77,320; Mar. 29; Gaz. vol. 152; p. 1220.
Corsets. Jackson Corset Company. No. 77,545; Apr. 19; Gaz. vol. 153; p. 818.
Corsets. Princess Corset Co. No. 77,568; Apr. 19; Gaz. vol. 153; p. 818.
Corsets. Aurora Corset Co. No. 77,607; Apr. 26; Gaz. vol. 153; p. 1077.
Corsets. Bay State Corset Co. No. 77,787; May 10; Gaz. vol. 154; p. 509.
Corsets. Corset H Company. No. 78,314; June 7; Gaz. vol. 155; p. 301.
Corsets. The Sahlin Company. No. 79,608; Sept. 20; Gaz. vol. 158; p. 698.
Corsets and corset-waists. E. A. Silloway. No. 76,675; Feb. 8; Gaz. vol. 151; p. 446.
Corsets and ladies' outer clothing. Mood. No. 78,625; June 28; Gaz. vol. 155; p. 1038.
Corsets, Maternity-. Kabo Corset Company. No. 80,139; Nov. 8; Gaz. vol. 160; p. 490.
Cotton cloth, Certain. Tingue, Brown & Company. No. 79,086; Aug. 2; Gaz. vol. 157; p. 204.
Cotton crape. Hamilton Manufacturing Co. No. 78,512; June 21; Gaz. vol. 155; p. 796.
Cotton dress goods. E. McKittrick & Co. No. 76,655; Feb. 8; Gaz. vol. 151; p. 445.
Cotton duck. Curran & Barry. No. 76,666; Feb. 8; Gaz. vol. 151; p. 446.
Cotton duck. Consolidated Cotton Duck Company. No. 77,985; May 24; Gaz. vol. 154; p. 1103.
Cotton duck. Ashland Manufacturing Company. No. 79,386; Sept. 6; Gaz. vol. 158; p. 223.
Cotton flannel. Merrimack Manufacturing Company. No. 76,331; Jan. 4; Gaz. vol. 150; p. 262.
Cotton-ginning machinery and parts thereof. J. T. Fuller. No. 79,047; Aug. 2; Gaz. vol. 157; p. 203.
Cotton piece goods. Boott Mills. No. 76,429; Jan. 18; Gaz. vol. 150; p. 821.
Cotton piece goods. Millville Manufacturing Company. No. 76,572; Feb. 1; Gaz. vol. 151; p. 189.
Cotton piece goods. F. Butterfield & Co. No. 76,648; Feb. 8; Gaz. vol. 151; p. 445.
Cotton piece goods. Burch, Bailey & Co. No. 76,880; Feb. 22; Gaz. vol. 151; p. 1010.
Cotton piece goods. Mannheimer Bros. No. 76,887; Feb. 22; Gaz. vol. 151; p. 1010.
Cotton piece goods. I. Gelbtrunk. No. 76,994; Mar. 1; Gaz. vol. 152; p. 226.
Cotton piece goods. Tootal Broadhurst Lee Company. No. 77,496; Apr. 12; Gaz. vol. 153; p. 543.
Cotton piece goods. Bonham Cotton Mills. No. 77,510; Apr. 19; Gaz. vol. 153; p. 817.
Cotton piece goods. Mount Hope Finishing Co. No. 77,667; Apr. 26; Gaz. vol. 153; p. 1079.
Cotton piece goods. Bonham Cotton Mills. No. 77,700; May 3; Gaz. vol. 154; p. 247.
Cotton piece goods. Brandon Mills. No. 77,899; May 17; Gaz. vol. 154; p. 831.
Cotton piece goods. Rice-Stix Dry Goods Company. No. 78,355; June 7; Gaz. vol. 155; p. 302.
Cotton piece goods. Franklin Manufacturing Co. No. 78,411; June 14; Gaz. vol. 155; p. 549.
Cotton piece goods. Warner-Godfrey Co. No. 78,558; June 21; Gaz. vol. 155; p. 797.
Cotton piece goods. Bliss, Fabyan & Company. No. 78,575; June 28; Gaz. vol. 155; p. 1037.
Cotton piece goods. F. Butterfield & Co. No. 78,773; July 12; Gaz. vol. 156; p. 533.
Cotton piece goods. John H. Meyer Co. No. 78,811; July 12; Gaz. vol. 156; p. 534.
Cotton piece goods. Boott Mills. Nos. 79,401–5; Sept. 6; Gaz. vol. 158; p. 223.
Cotton piece goods. Boott Mills. Nos. 79,643–4; Sept. 27; Gaz. vol. 158; p. 879.
Cotton piece goods. Charles Kohlman & Co. No. 79,677; Sept. 27; Gaz. vol. 158; p. 880.
Cotton piece goods. Kraft & Cutter. No. 79,678; Sept. 27; Gaz. vol. 158; p. 880.
Cotton piece goods. Hayward & Thurston Co. No. 79,755; Oct. 4; Gaz. vol. 159; p. 238.
Cotton piece goods. Warner-Godfrey Co. No. 79,872; Oct. 11; Gaz. vol. 159; p. 487.
Cotton piece goods. W. H. Brown Son & Co. No. 79,890; Oct. 18; Gaz. vol. 159; p. 743.
Cotton piece goods. K. Simon. No. 80,155; Nov. 8; Gaz. vol. 160; p. 490.
Cotton piece goods. G. Willis & Co. No. 80,474; Dec. 27; Gaz. vol. 161; p. 1039.
Cotton plaids, Woven. Neuss, Hesslein & Co. No. 77,946; May 17; Gaz. vol. 154; p. 832.
Cotton sateens. Warner-Godfrey Co. No. 79,871; Oct. 11; Gaz. vol. 159; p. 486.
Cotton-seed meal. Farmers' Cotton Oil & Fertilizer Company. No. 76,437; Jan. 18; Gaz. vol. 150; p. 821.
Cotton, sewing-cotton, thread, and cotton yarn, Spool-. The American Thread Company. Nos. 79,954–5; Oct. 25; Gaz. vol. 159; p. 987.
Cotton shirtings. Cone Export and Commission Company. No. 78,402; June 14; Gaz. vol. 155; p. 549.
Cotton, velvet, and fustian piece goods. N. Erlanger, Blumgart & Co. No. 79,660; Sept. 27; Gaz. vol. 158; p. 879.
Cotton wadding and batting. The Stearns & Foster Company. Nos. 79,705–6; Sept. 27; Gaz. vol. 158; p. 881.
Cotton-waste. Massasoit M'f'g. Co. No. 76,547; Jan. 25; Gaz. vol. 150; p. 1038.
Cotton, woolen, linen, and silk piece goods. B. Parker. No. 80,374; Dec. 13; Gaz. vol. 161; p. 526.
Cough-drops. Lindbeck & Nelson. No. 78,186; May 31; Gaz. vol. 154; p. 1406.
Cough remedies and breath-purifier. F. W. Israel. No. 78,008; May 24; Gaz. vol. 154; p. 1104.
Counting-machines. C. J. Root Company. No. 76,352; Jan. 11; Gaz. vol. 150; p. 565.
Cracker-dust. Francis H. Leggett & Co. No. 80,479; Dec. 27; Gaz. vol. 161; p. 1039.
Crackers. H. G. & J. A. Hess. No. 76,363; Jan. 11; Gaz. vol. 150; p. 565.

Crackers. F. Fuller. No. 76,439; Jan. 18; Gaz. vol. 150; p. 821.
Crackers. Iten Biscuit Co. No. 76,593; Feb. 1; Gaz. vol. 151; p. 190.
Crackers. H. G. & J. A. Hess. No. 78,177; May 31; Gaz. vol. 154; p. 1406.
Crackers. C. M. Frothingham. No. 78,790; July 12; Gaz. vol. 156; p. 534.
Crackers and biscuit. Francis H. Leggett & Co. No. 80,133; Nov. 8; Gaz. vol. 160; p. 490.
Crackers and biscuits. Iowa Biscuit Co. No. 78,240; May 31; Gaz. vol. 154; p. 1408.
Crackers, cakes, candied popcorn, and peanuts. Huston Biscuit Co. No. 78,805; July 12; Gaz. vol. 156; p. 534.
Crackers, Chocolate-coated. H. D. Foss & Co. No. 76,440; Jan. 18; Gaz. vol. 150; p. 821.
Crackers, wafers, and biscuits. Bremner Bros. No. 77,615; Apr. 26; Gaz. vol. 153; p. 1077.
Cranberry sauce. Francis H. Leggett & Co. No. 79,992; Oct. 25; Gaz. vol. 159; p. 988.
Crates. The Overstreet Crate Co. No. 78,203; May 31; Gaz. vol. 154; p. 1407.
Cravats, neckties, and neckscarfs. W. O. Horn & Bro. No. 76,442; Jan. 18; Gaz. vol. 150; p. 821.
Cravats, ties, and bows. Levy & Marcus. No. 77,249; Mar. 22; Gaz. vol. 152; p. 954.
Cream and certain medicines, Facial. S. R. Hall. No. 79,277; Aug. 23; Gaz. vol. 157; p. 996.
Cream and talcum powder, Cold-. S. Kann Sons & Co. No. 78,009; May 24; Gaz. vol. 154; p. 1104.
Cream, Cold-. Walker Chemical Company. No. 78,143; May 31; Gaz. vol. 154; p. 1405.
Cream, Cold-. Walker Chemical Company. No. 78,749; July 5; Gaz. vol. 156; p. 255.
Cream, Cold-. F. Meinhard. No. 80,323; Dec. 6; Gaz. vol. 161; p. 263.
Cream, Face-. E. L. Frye. No. 79,119; Aug. 9; Gaz. vol. 157; p. 481.
Cream, Face-. S. M. Chapman. No. 79,259; Aug. 23; Gaz. vol. 157; p. 995.
Cream, Massage-. V. Halper. No. 78,969; July 26; Gaz. vol. 156; p. 1062.
Cream-separators. Sears, Roebuck and Co. No. 79,013; July 26; Gaz. vol. 156; p. 1063.
Cream, Toilet. The De Meridor Co. No. 78,779; July 12; Gaz. vol. 156; p. 533.
Creams, lotions, and pastes, Toilet. I. Norris. No. 80,146; Nov. 8; Gaz. vol. 160; p. 490.
Creams, rouges, powder-paste, &c., Massage-. Elmo Sisters. No. 78,696; July 5; Gaz. vol. 156; p. 253.
Creams, Shaving-. D. J. Mahler. No. 79,775; Oct. 4; Gaz. vol. 159; p. 238.
Crême de menthe. Humphrey Taylor and Company. No. 77,106; Mar. 8; Gaz. vol. 152; p. 484.
Cretonne. Windsor Print Works. No. 80,504; Dec. 27; Gaz. vol. 161; p. 1040.
Crochet-hooks. C. J. Bates & Son. No. 78,060; May 31; Gaz. vol. 154; p. 1403.
Crockery, porcelain, and earthenware. Baltimore Bargain House. No. 79,394; Sept. 6; Gaz. vol. 158; p. 223.
Cultivators. Hartman Mfg. Co. No. 77,870; May 10; Gaz. vol. 154; p. 511.
Cultivators. Moline Plow Co. No. 78,724; July 5; Gaz. vol. 156; p. 254.
Cultivators, hay-carriers, and fixtures therefor. The Whitman & Barnes Manufacturing Company. No. 76,844; Feb. 15; Gaz. vol. 151; p. 728.
Currants. The Hills Brothers Company. No. 79,670; Sept. 27; Gaz. vol. 158; p. 880.
Currants. The Hills Brothers Company. No. 79,909; Oct. 18; Gaz. vol. 159; p. 743.
Curriers' and leather-dressers' use, Oleaginous compounds for. The Martin Dennis Company. No. 78,071; May 31; Gaz. vol. 154; p. 1403.
Currycombs, whips, and horse-collars. Norvell-Shapleigh Hardware Company. No. 77,261; Mar. 22; Gaz. vol. 152; p. 955.
Curtain-fixtures. J. W. Flynn & Bro. No. 78,237; May 31; Gaz. vol. 154; p. 1408.
Curtain-stretchers. Holmquist & Co. No. 77,809; May 10; Gaz. vol. 154; p. 509.
Curtains, Lace. A. F. Bornot. No. 77,443; Apr. 12; Gaz. vol. 153; p. 541.
Cutlery and tools. C. F. Butcher. No. 78,772; July 12; Gaz. vol. 156; p. 533.
Cutlery, Certain. King Klip Company. No. 76,450; Jan. 18; Gaz. vol. 150; p. 821.
Cutlery, Certain. H. Büchner Maschinenfabrik u. Apparatebau-Anstalt Gesellschaft mit beschränkter Haftung. No. 77,617; Apr. 26; Gaz. vol. 153; p. 1077.
Cutlery, Certain. Rolka & Klein. No. 79,525; Sept. 13; Gaz. vol. 158; p. 479.
Cutlery, Certain. Canton Cutlery Company. No. 79,718; Oct. 4; Gaz. vol. 159; p. 237.
Cutlery, razors, scissors, hatchets, axes, and adzes, Pocket-. Whitfield Hardware Company. No. 80,296; Nov. 29; Gaz. vol. 160; p. 1268.
Cutlery, tools, and machines, Certain. Roberts, Sanford & Taylor Company. No. 79,007; July 26; Gaz. vol. 156; p. 1063.
Davenports. Thomas Madden Son and Company. No. 78,429; June 14; Gaz. vol. 155; p. 550.
Denims. Ely & Walker Dry Goods Co. No. 79,477; Sept. 13; Gaz. vol. 158; p. 477.
Dental cement and root-filler. W. B. Glotfelty. No. 77,642; Apr. 26; Gaz. vol. 153; p. 1078.
Dental creams. E. Cudlipp. No. 76,965; Mar. 1; Gaz. vol. 152; p. 225.
Dental filling. L. A. Beyer. No. 77,220; Mar. 22; Gaz. vol. 152; p. 953.
Dental preparations. J. D. Wise. No. 79,802; Oct. 4; Gaz. vol. 159; p. 239.
Dental regulating appliances. The Meier Dental Manufacturing Company. No. 78,722; July 5; Gaz. vol. 156; p. 254.
Dental regulating appliances. The Meier Dental Manufacturing Company. No. 79,437; Sept. 6; Gaz. vol. 158; p. 224.
Dental suction-cups. Eureka Suction Co. No. 76,909; Feb. 22; Gaz. vol. 151; p. 1010.
Dentifrice and antiseptic. Eleto Company. No. 80,272; Nov. 29; Gaz. vol. 160; p. 1267.
Dentifrices. J. B. Williams Company. No. 79,095; Aug. 2; Gaz. vol. 157; p. 205.
Detergent. The Southern Specialty Co. No. 78,282; May 31; Gaz. vol. 154; p. 1409.
Detergent composition for washing the feet. Wohltat G. m. b. H. chem. Fabrik. No. 78,922; July 19; Gaz. vol. 156; p. 795.
Detergents, Certain. J. C. Patterson. No. 79,878; Oct. 11; Gaz. vol. 159; p. 487.
Diaries. Kiggins & Tooker Co. No. 79,763; Oct. 4; Gaz. vol. 159; p. 238.
Die-stocks. The Oster Manufacturing Company. No. 77,559; Apr. 19; Gaz. vol. 153; p. 818.
Disinfectant. Dr. Hess & Clark. No. 76,914; Feb. 22; Gaz. vol. 151; p. 1011.
Disinfectant and antiseptic. Lyster Chemical Company. No. 79,067; Aug. 2; Gaz. vol. 157; p. 204.
Disinfectant and deodorizer. F. L. Wiggins. No. 77,684; Apr. 26; Gaz. vol. 153; p. 1079.
Disinfectant for exterminating insects. F. F. Freithofer. No. 79,117; Aug. 9; Gaz. vol. 157; p. 481.
Disinfectants. Edward Cook and Company. No. 76,910; Feb. 22; Gaz. vol. 151; p. 1010.
Disinfectants and insecticides. Zonol Products Company. No. 78,154; May 31; Gaz. vol. 154; p. 1406.
Disinfecting fluid. Sharp & Dohme. No. 76,842; Feb. 15; Gaz. vol. 151; p. 728.
Disk mandrels, porte-polishers, &c. Morgan and Maxfield. No. 78,262; May 31; Gaz. vol. 154; p. 1409.
Disks, Abrasive. Charles H. Besly & Company. No. 80,026; Nov. 1; Gaz. vol. 160; p. 253.
Disks containing directions for following a given route. J. W. Jones. No. 80,427; Dec. 20; Gaz. vol. 161; p. 750.
Dispensing-cans and cement-pots. United Shoe Machinery Company. No. 76,575; Feb. 1; Gaz. vol. 151; p. 189.
Diuretic preparations. Chemische Werke vorm. Dr. Heinrich Byk. No. 77,618; Apr. 26; Gaz. vol. 153; p. 1077.
Dolls. Chattanooga Medicine Co. No. 77,705; May 3; Gaz. vol. 154; p. 247.
Dolls. Bawo & Dotter. No. 77,895; May 17; Gaz. vol. 154; p. 831.
Dolls. L. Wolf & Co. No. 78,033; May 24; Gaz. vol. 154; p. 1104.
Dolls. Baker & Bennett Co. No. 78,300; June 7; Gaz. vol. 155; p. 301.
Dolls. Aetna Doll and Toy Company. No. 78,390; June 14; Gaz. vol. 155; p. 549.
Door-hangers and tracks for same. The Richards Mfg. Co. No. 77,570; Apr. 19; Gaz. vol. 153; p. 819.
Doors and shutters and frames therefor, Fire. D. C. Meehan. No. 79,592; Sept. 20; Gaz. vol. 158; p. 698.
Doubletrees, swingletrees, and wood parts for the same. Shattuck-George Iron Co. No. 79,936; Oct. 18; Gaz. vol. 159; p. 744.
Drawing instruments. Eugene Dietgen Company. No. 79,904; Oct. 18; Gaz. vol. 159; p. 743.
Dress-shields. J. Beyerle. No. 78,487; June 21; Gaz. vol. 155; p. 795.
Dress-shields. J. Beyerle. No. 79,321; Aug. 30; Gaz. vol. 157; p. 1239.
Dress-shields. J. Beyerle. No. 79,399; Sept. 6; Gaz. vol. 158; p. 223.
Dresses, coats, and outer and under skirts, Ladies'. Hyams and Hamerschlag. No. 76,972; Mar. 1; Gaz. vol. 152; p. 225.
Dresses, Girls'. Louis Sonn & Co. No. 77,740; May 3; Gaz. vol. 154; p. 248.
Dresses, Girls'. Louis Sonn & Co. No. 78,137; May 31; Gaz. vol. 154; p. 1405.
Dressing, Machine-belt. F. L. Cavagnaro & Co. No. 80,034; Nov. 1; Gaz. vol. 160; p. 253.
Drier, Liquid. Pratt & Lambert. No. 79,522; Sept. 13; Gaz. vol. 158; p. 479.
Drills. Cheswell Cotton Mills Co. No. 77,983; May 24; Gaz. vol. 154; p. 1103.
Drills and screw-drivers. Star Expansion Bolt Company. No. 80,446; Dec. 20; Gaz. vol. 161; p. 750.

Alphabetical list of trade-marks—Continued.

Drills, Boring-. Ellery Twist Drill Co. No. 79,044; Aug. 2; Gaz. vol. 157; p. 203.
Driving-bits. The Stalker Manufacturing Company. No. 78,213; May 31; Gaz. vol. 154; p. 1407.
Drumheads. Diamond Whip Company. No. 76,436; Jan. 18; Gaz. vol. 150; p. 821.
Duplicating apparatus and certain stationery. E. A. Klaber. No. 76,400; Jan. 11; Gaz. vol. 150; p. 566.
Dust-layer and disinfectant. Clean Sweep Company. No. 76,712; Feb. 8; Gaz. vol. 151; p. 447.
Dyed textile material, Chemicals for bucking or scouring. Badische Anilin & Soda Fabrik. No. 76,580; Feb. 1; Gaz. vol. 151; p. 189.
Dyeing materials. National Color Co. No. 76,371; Jan. 11; Gaz. vol. 150; p. 565.
Dyes and coloring-matters, Coal-tar. Societe Anonyme Des Matieres Colorantes & Produits Chimiques de Saint-Denis. No. 76,726; Feb. 8; Gaz. vol. 151; p. 447.
Dyes, Coal-tar. Farbenfabriken of Elberfeld Company. No. 77,305; Mar. 29; Gaz. vol. 152; p. 1219.
Dyes, Coal-tar. Farbenfabriken of Elberfeld Company. No. 77,717; May 3; Gaz. vol. 154; p. 247.
Dyes, Easter-egg. Fred Fear & Company. No. 78,874; July 19; Gaz. vol. 156; p. 793.
Dynamometers and tachometers. The Electric Speedometer and Dynamometer Manufacturing Company. No. 77,302; Mar. 29; Gaz. vol. 152; p. 1219.
Earthenware articles. Kristal-Glas-En Aardewerk Fabrieken De Sphinx Voorheen Petrus Regout & Co. No. 78,611; June 28; Gaz. vol. 155; p. 1038.
Edgers and trimmers. The Gordon Hollow Blast Grate Company. No. 79,975; Oct. 25; Gaz. vol. 159; p. 987.
Effervescent aperients. A. A. Burnham. No. 78,061; May 31; Gaz. vol. 154; p. 1403
Effervescent granular salts for elimination of uric acid. Mu-Col Company. No. 77,177; Mar. 15; Gaz. vol. 152; p. 728.
Effervescent salt, Granular. Sharp & Dohme. No. 77,837; May 10; Gaz. vol. 154; p. 510.
Effervescent salts. W. B. Hopkins. No. 77,105; Mar. 8; Gaz. vol. 152; p. 484.
Egg substitutes. Casein, Limited. No. 76,353; Jan. 11; Gaz. vol. 150; p. 565.
Eggs. S. P. Pond Company. No. 76,532; Jan. 25; Gaz. vol. 150; p. 1038.
Eggs. Loeb, Fleishman and Company. No. 77,656; Apr. 26; Gaz. vol. 153; p. 1078.
Eggs. F. H. Foote & Co. No. 79,204; Aug. 16; Gaz. vol. 157; p. 749.
Eggs. Proudfit-Ormsby Commission Company. No. 80,083; Nov. 1; Gaz. vol. 160; p. 255.
Eggs. Golden and Company. No. 80,119; Nov. 8; Gaz. vol. 160; p. 489.
Elastic arm-bands. Hewes & Potter. No. 77,313; Mar. 29; Gaz. vol. 152; p. 1220.
Elastic arm-bands. Hewes & Potter. No. 78,098; May 31; Gaz. vol. 154; p. 1404.
Electric apparatus and supplies. Hemingray Glass Co. No. 78,096; May 31; Gaz. vol. 154; p. 1404.
Electric apparatus and supplies. Electr. Signal- und Kraftanlagen Walter Blut. No. 79,564; Sept. 20; Gaz. vol. 158; p. 697.
Electric batteries, Dry-cell. National Carbon Company. Nos. 78,120–1; May 31; Gaz. vol. 154; p. 1405.
Electric conduits, Coated pipes and tubes for. Safety Armorite Conduit Company. No. 79,083; Aug. 2; Gaz. vol. 157; p. 204.
Electric devices, Certain. The Siebert-Welch Co. No. 76,799; Feb. 15; Gaz. vol. 151; p. 726.
Electric-light fixtures. The Conneaut Company. No. 78,495; June 21; Gaz. vol. 155; p. 795.
Electric-light fixtures, Incandescent-. The Conneaut Company. Nos. 78,312–13; June 7; Gaz. vol. 155; p. 301.
Electric-lighting fixtures. The Jandus Electric Co. No. 78,717; July 5; Gaz. vol. 156; p. 254.
Electric outlet-boxes. Sprague Electric Company. No. 77,887; May 10; Gaz. vol. 154; p. 512.
Electric-wiring switches and rosettes. C. S. Knowles. No. 76,814; Feb. 15; Gaz. vol. 151; p. 727.
Electrical apparatus and supplies. Johnston Electric Company. No. 77,871; May 10; Gaz. vol. 154; p. 511.
Electrical apparatus and supplies, Certain. Chicago Battery Company. Nos. 77,293–4; Mar. 29; Gaz. vol. 152; p. 1219.
Electrical apparatus, Certain. Stanley-G. I. Electric Manufacturing Company. No. 76,822; Feb. 15; Gaz. vol. 151; p. 727.
Electrical apparatus, Certain. Consolidated Electric Appliance Companies. No. 77,453; Apr. 12; Gaz. vol. 153; p. 541.
Electrical apparatus, Certain. L. Gudeman. No. 78,088; May 31; Gaz. vol. 154; p. 1404.
Electrical apparatus, machines, and supplies. Pettingell-Andrews Company. No. 80,080; Nov. 1; Gaz. vol. 160; p. 254.
Electrical brushes and contacts. National Carbon Company. No. 77,944; May 17; Gaz. vol. 154; p. 832.
Electrical fittings. The Fairmount Electric and Manufacturing Company. No. 78,078; May 31; Gaz. vol. 154; p. 1403.
Electrical ignition apparatus and spark-plugs. W. E. Tucker. No. 76,703; Feb. 8; Gaz. vol. 151; p. 447.
Electrical lighting apparatus and storage batteries therefor. The Electric Storage Battery Company. No. 77,626; Apr. 26; Gaz. vol. 153; p. 1077.
Electrical supplies, Certain. Delta-Star Electric Co. No. 76,338; Jan. 4; Gaz. vol. 150; p. 263
Electrical supplies, Certain. E. Deniéport. No. 76,853; Feb. 22; Gaz. vol. 151; p. 1009.
Electrical supplies, Certain. Appleton Electric Company. No. 78,058; May 31; Gaz. vol. 154; p. 1403.
Electrical supplies, Certain. G. L. Prentiss. No. 78,633; June 28; Gaz. vol. 155; p. 1039.
Electrical supplies, Certain. Ehrich & Graetz. No. 78,957; July 26; Gaz. vol. 156; p. 1062.
Electrotypes. W. C. Jacobs. No. 77,734; May 3; Gaz. vol. 154; p. 248.
Embroidery-flosses. Meyer, Martin & Danda. No. 80,486; Dec. 27; Gaz. vol. 161; p. 1040.
Embroidery, Hand. Marshall Field & Company. No. 80,177; Nov. 15; Gaz. vol. 160; p. 769.
Embroidery-patterns. The Initial Company. No. 79,584; Sept. 20; Gaz. vol. 158; p. 698.
Embroidery-silks. Belding Bros. & Company. No. 77,365; Apr. 5; Gaz. vol. 153; p. 267.
Embroidery-stamping outfits. L. S. Leon. No. 80,367; Dec. 13; Gaz. vol. 161; p. 526.
Emulsion of cod-liver oil, Egg. Smith, Kline & French Co. No. 78,359; June 7; Gaz. vol. 155; p. 302.
Enamel. Holzapfels Limited. No. 77,158; Mar. 15; Gaz. vol. 152; p. 728.
Enamel metal ware. The Enterprise Enamel Company. No. 78,407; June 14; Gaz. vol. 155; p. 549.
Enamel metal ware. Porcelain Enameling Ass'n. of America. No. 80,150; Nov. 8; Gaz. vol. 160; p. 490.
Enamels and varnishes. Keystone Varnish Co. No. 76,718; Feb. 8; Gaz. vol. 151; p. 447.
Enameled-metal household and cooking utensils. Rhenania Vereinigte Emaillirwerke, Aktien-Gesellschaft. No. 77,489; Apr. 12; Gaz. vol. 153; p. 542.
Enameled metal ware. Cleveland Stamping and Tool Co. Nos. 76,273–4; Jan. 4; Gaz. vol. 150; p. 261.
Enameled metal ware. The New England Enameling Co. No. 77,360; Mar. 29; Gaz. vol. 152; p. 1221.
Enameled metal ware. Geo. Borgfeldt & Co. No. 78,770; July 12; Gaz. vol. 156; p. 533.
Enameled metal ware. The Republic Metalware Company. No. 80,235; Nov. 22; Gaz. vol. 160; p. 1034.
Enameled metal ware and household and cooking utensils. Stanz-und Emaillirwerke, vormals Carl Thiel & Söhne, Actien-Gesellschaft. No. 80,249; Nov. 22; Gaz. vol. 160; p. 1034.
Enameled sheet-metal ware. Norvell-Shapleigh Hardware Company. No. 78,267; May 31; Gaz. vol. 154; p. 1409.
Engine governors and stops and pump-governors. Strong, Carlisle & Hammond Co. No. 78,215; May 31; Gaz. vol. 154; p. 1407.
Engines and harvesters, Traction-. B. Holt. No. 79,056; Aug. 2; Gaz. vol. 157; p. 203.
Engines and motors and parts thereof, Steam and gasolene. Fabbrica Italiana Automobili-Torino Societa Anonima. No. 77,867; May 10; Gaz. vol. 154; p. 511.
Engines and parts thereof, Internal-combustion. Loane-Hiltz Engineering Company of Baltimore City. No. 77,551; Apr. 19; Gaz. vol. 153; p. 818.
Engines, Explosion-. Fairbanks, Morse & Company. No. 76,508; Jan. 25; Gaz. vol. 150; p. 1037.
Engines, Internal-combustion. Iowa Dairy Separator Company. No. 76,690; Feb. 8; Gaz. vol. 151; p. 446.
Engines, Internal-combustion. Waterloo Gasoline Engine Company. No. 77,169; Mar. 15; Gaz. vol. 152; p. 728.
Engines, Internal-combustion. Iowa Dairy Separator Company. Nos. 79,981–3; Oct. 25; Gaz. vol. 159; p. 988.
Engraving tools and implements. F. W. Gesswein Company. No. 77,526; Apr. 19; Gaz. vol. 153; p. 817.
Envelops, paper, and wrappers. Neostyle Envelope Company. No. 77,028; Mar. 1; Gaz. vol. 152; p. 227.
Envelops, tablets, and blank books. J. C. Blair Company. No. 79,957; Oct. 25; Gaz. vol. 159; p. 987.
Equipments, Certain. Norvell-Shapleigh Hardware Company. No. 78,343; June 7; Gaz. vol. 155; p. 302.
Ergot, Liquid concentrated preparation of. Sharp & Dohme. No. 76,553; Jan. 25; Gaz. vol. 150; p. 1038.
Exercisers, Athletic. Eureka Spring Company. No. 80,274; Nov. 29; Gaz. vol. 160; p. 1267.
Exercising apparatus and parts thereof. A. Boshes. No. 78,859; July 19; Gaz. vol. 156; p. 793.
Explosives, fireworks, and matches, Certain. "Jupiter" Gesellschaft mit beschränkter Haftung. No. 79,916; Oct. 18; Gaz. vol. 159; p. 744.
Eye-water. J. R. Dickey. No. 76,355; Jan. 11; Gaz. vol. 150; p. 565.
Eyeglass and spectacle lenses. J. L. Borsch. No. 79,099; Aug. 9; Gaz. vol. 157; p. 481.
Eyeglass and spectacle mountings. The Meyrowitz Manufacturing Co. Nos. 79,505–6; Sept. 13; Gaz. vol. 158; p. 478.
Eyeglasses and spectacles. The Meyrowitz Manufacturing Co. No. 78,258; May 31; Gaz. vol. 154; p. 1408.

Alphabetical list of trade-marks—Continued.

Eyeglasses and their mountings and parts. Bay State Optical Company. No. 76,523; Jan. 25; Gaz. vol. 150; p. 1037.
Eyeglass-lenses. The S. Galeski Optical Co. No. 80,351; Dec. 13; Gaz. vol. 161; p. 525.
Fabric-finishing compound. S. M. Hermann. No. 80,423; Dec. 20; Gaz. vol. 161; p. 749.
Fans, Electric. The Robbins & Myers Company. No. 77,490; Apr. 12; Gaz. vol. 153; p. 542.
Fans, Electric. Fort Wayne Electric Works. No. 79,028; July 26; Gaz. vol. 156; p. 1063.
Fanning-mills, land-rollers, seeders, &c. Johnson & Field Mfg. Co. No. 79,837; Oct. 11; Gaz. vol. 159; p. 486.
Fancy goods and notions. Baltimore Bargain House. No. 79,396; Sept. 6; Gaz. vol. 158; p. 223.
Fancy goods, Certain. J. E. Hurst & Company. No. 76,568; Feb. 1; Gaz. vol. 151; p. 189.
Fasteners, Machines for setting metallic. Heaton-Peninsular Button Fastener Co. No. 78,175; May 31; Gaz. vol. 154; p. 1406.
Fasteners, plates, clamps, and rivets. Crescent Belt Fastener Company. No. 79,107; Aug. 9; Gaz. vol. 157; p. 481.
Fasteners, Staple-like metallic. Heaton-Peninsular Button Fastener Co. Nos. 76,950–1; Mar. 1; Gaz. vol. 152; p. 225.
Fasteners, Staple-like metallic. Heaton-Peninsular Button Fastener Co. No. 77,370; Apr. 5; Gaz. vol. 153; p. 267.
Fasteners, Staple-like metallic. Heaton-Peninsular Button Fastener Co. No. 79,125; Aug. 9; Gaz. vol. 157; p. 482.
Fasteners, Staple-like metallic. Heaton-Peninsular Button Fastener Co. Nos. 80,356–7; Dec. 13; Gaz. vol. 161; p. 525.
Fats, Preparation of eatable. Vegetable Butter Company. No. 78,820; July 19; Gaz. vol. 156; p. 795.
Faucets. Cordley & Hayes. No. 79,737; Oct. 4; Gaz. vol. 159; p. 237.
Faucets, shower-baths, and soap-holders. The Artell Company. No. 77,606; Apr. 26; Gaz. vol. 153; p. 1077.
Feed, Horse. J. J. Badenoch Co. No. 78,291; May 31; Gaz. vol. 154; p. 1409.
Feed, Horse. Alfalfa Milling Company. No. 80,259; Nov. 29; Gaz. vol. 160; p. 1267.
Feed, Horse and stock. Chapin & Company. No. 79,818; Oct. 11; Gaz. vol. 159; p. 485.
Feed, Prepared stock. Great Western Cereal Company. No. 80,053; Nov. 1; Gaz. vol. 160; p. 254.
Felts of wool, worsted, or hair, Endless. Mitchells, Ashworth, Stansfield & Company. No. 77,664; Apr. 26; Gaz. vol. 153; p. 1078.
Fence and barbed wire, Wire. Keystone Steel & Wire Company. No. 76,791; Feb. 15; Gaz. vol. 151; p. 726.
Fence, Woven-wire. Ludlow-Saylor Wire Company. No. 79,682; Sept. 27; Gaz. vol. 158; p. 880.
Ferment. Mead Johnson & Company. Nos. 77,742–4; May 3; Gaz. vol. 154; p. 248.
Fertilizer. F. G. Dokkenwadel. No. 77,694; Apr. 26; Gaz. vol. 153; p. 1079.
Fertilizer. Mayer Fertilizer & Junk Company, (by change of name now The Mayer Fertilizer Co.) No. 80,322; Dec. 6; Gaz. vol. 161; p. 263.
Fertilizer, Nitrogen-gathering bacteria for a. Standard Nitrogen Company. No. 78,835; July 12; Gaz. vol. 156; p. 535.
Fertilizers. Standard Guano and Chemical Manufacturing Company. No. 77,166; Mar. 15; Gaz. vol. 152; p. 728.
Fertilizers. Home Fertilizer & Chemical Company. Nos. 77,396–400; Apr. 5; Gaz. vol. 153; p. 268.
Fertilizers. Nitrate Agencies Co. No. 77,877; May 10; Gaz. vol. 154; p. 511.
Fertilizers. Chicago Fertilizer Works. No. 78,493; June 21; Gaz. vol. 155; p. 795.
Fertilizers. Commercial Fertilizer Co. No. 78,690; July 5; Gaz. vol. 156; p. 253.
Fertilizers. Piedmont Fertilizer Co. No. 78,823; July 12; Gaz. vol. 156; p. 535.
Fertilizers. D. D. Johnson. No. 78,977; July 26; Gaz. vol. 156; p. 1062.
Fertilizers. National Fertilizer Co. No. 79,075; Aug. 2; Gaz. vol. 157; p. 204.
Fertilizers. Central Manufacturing Company. No. 79,894; Oct. 18; Gaz. vol. 159; p. 743.
Fertilizers. National Fertilizer Co. No. 79,924; Oct. 18; Gaz. vol. 159; p. 744.
Fertilizers. Virginia-Carolina Chemical Co. No. 80,093; Nov. 1; Gaz. vol. 160; p. 255.
Fiber articles, Indurated-. Charles D. Brown & Company. No. 80,404; Dec. 20; Gaz. vol. 161; p. 749.
Fiber-board. Case & Marshall. No. 79,817; Oct. 11; Gaz. vol. 159; p. 485.
Files. Norvell-Shapleigh Hardware Company. No. 78,271; May 31; Gaz. vol. 154; p. 1409.
Files. F. W. Gesswein Company. No. 79,753; Oct. 4; Gaz. vol. 159; p. 238.
Files, Scrap-. F. O. Cunningham. No. 79,560; Sept. 20; Gaz. vol. 158; p. 697.
Fillers and surfaces. Flood & Conklin Co. Nos. 76,325–6; Jan. 4; Gaz. vol. 150; p. 262.
Fillers of a waxy nature. The Martin Dennis Company. No. 78,694; July 5; Gaz. vol. 156; p. 253.
Fillet, Wood and leather. The Cleveland Fillet Company. No. 79,470; Sept. 13; Gaz. vol. 158; p. 477.
Finished or varnished surfaces, Food and preservative for all. W. H. Grippin. No. 80,355; Dec. 13; Gaz. vol. 161; p. 525.
Fire-escapes. Clark Roller Awning Company. No. 77,367; Apr. 5; Gaz. vol. 153; p. 267.
Fire-extinguishers, Chemical hand. Missouri Lamp & Mfg. Co. Nos. 78,537–8; June 21; Gaz. vol. 155; p. 796.
Fire-extinguishers, Chemical hand. Missouri Lamp & Mfg. Co. Nos. 78,622–4; June 28; Gaz. vol. 155; p. 1038.
Fire-extinguishing apparatus. S. F. Hayward & Co. No. 77,762; May 3; Gaz. vol. 154; p. 249.
Fire-extinguishing apparatus. General Fire Extinguisher Company. No. 80,118; Nov. 8; Gaz. vol. 160; p. 489.
Fire-hose nozzle. Andrew J. Morse & Son. No. 78,338; June 7; Gaz. vol. 155; p. 302.
Firearms and gunpowder. Deutsche Waffen- & Fahrrad-Fabriken H. Burgsmüller & Söhne. No. 79,108; Aug. 9; Gaz. vol. 157; p. 481.
Fireworks. E. H. Wagner. No. 80,394; Dec. 13; Gaz. vol. 161; p. 526.
Fireworks, Toy. Starlite Manufacturing Company. No. 78,659; June 28; Gaz. vol. 155; p. 1039.
Fish-hooks. S. Allcock & Co. No. 79,543; Sept. 20; Gaz. vol. 158; p. 697.
Fishing-tackle. Norvell-Shapleigh Hardware Company. No. 76,455; Jan. 18; Gaz. vol. 150; p. 822.
Fishing tackle and supplies, Certain. T. J. Conroy. No. 77,298; Mar. 29; Gaz. vol. 152; p. 1219.
Flannels in the piece. Russell Embroidery Co. No. 80,505; Dec. 27; Gaz. vol. 161; p. 1040.
Flavoring extract. Seminole Chemical Company. No. 78,458; June 14; Gaz. vol. 155; p. 551.
Flavoring extracts. Allen Brothers Company. No. 76,876; Feb. 22; Gaz. vol. 151; p. 1009.
Flavoring extracts. G. F. Upham. No. 76,945; Feb. 22; Gaz. vol. 151; p. 1011.
Flavoring extracts. Price Flavoring Extract Company. No. 77,567; Apr. 19; Gaz. vol. 153; p. 818.
Flavoring extracts. Francis H. Leggett & Company. No. 77,633; Apr. 26; Gaz. vol. 153; p. 1078.
Flavoring extracts, blended coffee, spices, &c. Schuhmacher Grocer Company. No. 77,153; Mar. 15; Gaz. vol. 152; p. 728.
Flavoring extracts, pepper, mustard, &c. The S. C. Smith Company. No. 77,076; Mar. 8; Gaz. vol. 152; p. 483.
Flavoring, Imitation vanilla. The Cabell Company. No. 79,959; Oct. 25; Gaz. vol. 159; p. 987.
Flavors and essences, Artificial. Alex. Fries & Bro. No. 80,048; Nov. 1; Gaz. vol. 160; p. 254.
Floor-covering. United Roofing and Manufacturing Company. No. 78,472; June 14; Gaz. vol. 155; p. 551.
Flooring, Metallic plates to reinforce composition. The Berger Manufacturing Company. No. 80,300; Dec. 6; Gaz. vol. 161; p. 263.
Flour, Malt-. Chas. W. Shaw Company. No. 78,459; June 14; Gaz. vol. 155; p. 551.
Flour, Pancake-. The Chamberlain-Myers Milling Company. No. 77,387; Apr. 5; Gaz. vol. 153; p. 267.
Flour, Prepared. H. A. Johnson & Co. No. 78,246; May 31; Gaz. vol. 154; p. 1408.
Flour, Self-raising pancake-. F. B. Chamberlain Company. No. 79,648; Sept. 27; Gaz. vol. 158; p. 879.
Flour, Self-rising. Akin-Erskine Milling Company. No. 80,100; Nov. 8; Gaz. vol. 160; p. 489.
Flour, Wheat-. Tacoma Grain Company. No. 76,314; Jan. 4; Gaz. vol. 150; p. 262.
Flour, Wheat-. Davis Milling Company. No. 76,347; Jan. 4; Gaz. vol. 150; p. 263.
Flour, Wheat-. T. C. Jenkins. Nos. 76,364–5; Jan. 11; Gaz. vol. 150; p. 565.
Flour, Wheat-. A. B. McCrillis & Son. No. 76,424; Jan. 18; Gaz. vol. 150; p. 821.
Flour, Wheat-. C. L. Plumb. No. 76,531; Jan. 25; Gaz. vol. 150; p. 1038.
Flour, Wheat-. J. A. Hinds & Co. No. 76,560; Jan. 25; Gaz. vol. 150; p. 1038.
Flour, Wheat-. Miner, Read & Garrette. No. 76,562; Jan. 25; Gaz. vol. 150; p. 1038.
Flour, Wheat-. Akin-Erskine Milling Co. No. 76,578; Feb. 1; Gaz. vol. 151; p. 189.
Flour, Wheat-. Edwardsville Milling Company. No. 76,586; Feb. 1; Gaz. vol. 151; p. 189.
Flour, Wheat-. L. D. Craighead. No. 76,682; Feb. 8; Gaz. vol. 151; p. 446.
Flour, Wheat-. Crosby Roller Milling Company. Nos. 76,683–4; Feb. 8; Gaz. vol. 151; p. 446.
Flour, Wheat-. Holt & Company. No. 76,688; Feb. 8; Gaz. vol. 151; p. 446.
Flour, Wheat-. C. A. Gambrill Manufacturing Company. No. 76,782; Feb. 15; Gaz. vol. 151; p. 726.
Flour, Wheat-. Tousley & Hertel. No. 76,843; Feb. 15; Gaz. vol. 151; p. 728.
Flour, Wheat-. C. A. Gambrill Manufacturing Company. Nos. 76,900–3; Feb. 22; Gaz. vol. 151; p. 1010.
Flour, Wheat-. Dewey Bros. Company. No. 76,905; Feb. 22; Gaz. vol. 151; p. 1010.

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Flour, Wheat-. Holt & Company. No. 76,916; Feb. 22; Gaz. vol. 151; p. 1011.
Flour, Wheat-. Colton Brothers Company. No. 76,931; Feb. 22; Gaz. vol. 151; p. 1011.
Flour, Wheat-. W. H. Stokes Milling Co. Nos. 77,011–13; Mar. 1; Gaz. vol. 152; p. 226.
Flour, Wheat-. John Hoffer Flouring Mill Company. No. 77,070; Mar. 8; Gaz. vol. 152; p. 483.
Flour, Wheat-. A. B. McCrillis & Son. No. 77,114; Mar. 8; Gaz. vol. 152; p. 485.
Flour, Wheat-. C. A. Gambrill Manufacturing Company. No. 77,123; Mar. 15; Gaz. vol. 152; p. 727.
Flour, Wheat-. Enns Milling Company. No. 77,127; Mar. 15; Gaz. vol. 152; p. 727.
Flour, Wheat-. Big Diamond Milling Co. No. 77,195; Mar. 22; Gaz. vol. 152; p. 953.
Flour, Wheat-. The Allen & Wheeler Company. No. 77,282; Mar. 29; Gaz. vol. 152; p. 1219.
Flour, Wheat-. Arkadelphia Milling Company. No. 77,283; Mar. 29; Gaz. vol. 152; p. 1219.
Flour, Wheat-. The Bliss Milling Company. No. 77,287; Mar. 29; Gaz. vol. 152; p. 1219.
Flour, Wheat-. D. Stott. No. 77,341; Mar. 29; Gaz. vol. 152; p. 1220.
Flour, Wheat-. Texas Star Flour Mills. Nos. 77,342–3; Mar. 29; Gaz. vol. 152; p. 1220.
Flour, Wheat-. C. A. Gambrill Manufacturing Company. No. 77,386; Apr. 5; Gaz. vol. 153; p. 267.
Flour, Wheat-. B. Stern & Sons. No. 77,441; Apr. 12; Gaz. vol. 153; p. 541.
Flour, Wheat-. C. A. Gambrill Manufacturing Company. No. 77,450; Apr. 12; Gaz. vol. 153; p. 541.
Flour, Wheat-. Acme-Evans Company. No. 77,505; Apr. 19; Gaz. vol. 153; p. 817.
Flour, Wheat-. Brown Milling Company. No. 77,511; Apr. 19; Gaz. vol. 153; p. 817.
Flour, Wheat-. The Davis Milling Company. No. 77,520; Apr. 19; Gaz. vol. 153; p. 817.
Flour, Wheat-. Hezel Milling Co. No. 77,538; Apr. 19; Gaz. vol. 153; p. 818.
Flour, Wheat-. Wells Flour Milling Company. No. 77,593; Apr. 19; Gaz. vol. 153; p. 819.
Flour, Wheat-. The Goshen Milling Company. Nos. 77,643–4; Apr. 26; Gaz. vol. 153; p. 1078.
Flour, Wheat-. Listman Mill Company. No. 77,655; Apr. 26; Gaz. vol. 153; p. 1078.
Flour, Wheat-. The W. H. Gardner Grain & Mill Co. No. 77,693; Apr. 26; Gaz. vol. 153; p. 1079.
Flour, Wheat-. Burrus Mill & Elevator Company. No. 77,701; May 3; Gaz. vol. 154; p. 247.
Flour, Wheat-. The Davis Milling Company. No. 77,709; May 3; Gaz. vol. 154; p. 247.
Flour, Wheat-. American Hominy Company. No. 77,785; May 10; Gaz. vol. 154; p. 509.
Flour, Wheat-. American Hominy Company. No. 77,892; May 17; Gaz. vol. 154; p. 831.
Flour, Wheat-. W. F. Brey. No. 78,160; May 31; Gaz. vol. 154; p. 1406.
Flour, Wheat-. Brown Milling Company. No. 78,161; May 31; Gaz. vol. 154; p. 1406.
Flour, Wheat-. Donmeyer, Gardner & Co. Nos. 78,169–71; May 31; Gaz. vol. 154; p. 1406.
Flour, Wheat-. The Model Milling & Elevator Company. No. 78,191; May 31; Gaz. vol. 154; p. 1407.
Flour, Wheat-. The Northwestern Elevator & Mill Co. No. 78,199; May 31; Gaz. vol. 154; p. 1407.
Flour, Wheat-. Washburn Crosby Company. No. 78,218; May 31; Gaz. vol. 154; p. 1407.
Flour, Wheat-. Cannon Valley Milling Company. No. 78,227; May 31; Gaz. vol. 154; p. 1408.
Flour, Wheat-. Wm. A. Coombs Milling Company. No. 78,229; May 31; Gaz. vol. 154; p. 1408.
Flour, Wheat-. The Model Milling & Elevator Company. No. 78,261; May 31; Gaz. vol. 154; p. 1409.
Flour, Wheat-. The National Milling Company. No. 78,264; May 31; Gaz. vol. 154; p. 1409.
Flour, Wheat-. The Rea-Patterson Milling Company. No. 78,276; May 31; Gaz. vol. 154; p. 1409.
Flour, Wheat-. Philip H. Postel Milling Company. No. 78,349; June 7; Gaz. vol. 155; p. 302.
Flour, Wheat-. The Gwinn Milling Company. Nos. 78,417–18; June 14; Gaz. vol. 155; pp. 549–50.
Flour, Wheat-. Amendt Milling Company. No. 78,479; June 21; Gaz. vol. 155; p. 795.
Flour, Wheat-. William S. Hills Company. No. 78,517; June 21; Gaz. vol. 155; p. 796.
Flour, Wheat-. Kruger, Darsie & Co. No 78,522; June 21; Gaz. vol. 155; p. 796.
Flour, Wheat-. The Blish Milling Company. No. 78,574; June 28; Gaz. vol. 155; p. 1037.
Flour, Wheat-. A. B. McCrillis & Son. No. 78,618; June 28; Gaz. vol. 155; p. 1038.
Flour, Wheat-. D. Stott. No. 78,660; June 28; Gaz. vol. 155; p. 1039.
Flour, Wheat-. R. A. Davis. No. 78,665; June 28; Gaz. vol. 155; p. 1039.
Flour, Wheat-. D. & A. Luckenbach. No. 78,809; July 12; Gaz. vol. 156; p. 534.
Flour, Wheat- Sauers Milling Co. No. 78,829; July 12; Gaz. vol. 156; p. 535.
Flour, Wheat-. Tacoma Grain Company. No. 78,836; July 12; Gaz. vol. 156; p. 535.
Flour, Wheat-. Winona Mill Company. No. 78,850; July 12; Gaz. vol. 156; p. 535.
Flour, Wheat-. American Hominy Company. No. 78,855; July 19; Gaz. vol. 156; p. 793.
Flour, Wheat-. The Davis Milling Company. No. 78,869; July 19; Gaz. vol. 156; p. 793.
Flour, Wheat-. The Hornor-Gaylord Company. No. 78,880; July 19; Gaz. vol. 156; p. 793.
Flour, Wheat-. The La Jara Milling & Elevator Company. No. 78,888; July 19; Gaz. vol. 156; p. 794.
Flour, Wheat-. Bruns-Frank Company. No. 79,035; Aug. 2; Gaz. vol. 157; p. 203.
Flour, Wheat-. Davis Milling Company. No. 79,039; Aug. 2; Gaz. vol. 157; p. 203.
Flour, Wheat-. Quaker City Flour Mills Company. Nos. 79,079–80; Aug. 2; Gaz. vol. 157; p. 204.
Flour, Wheat-. J. T. Fargason Company. No. 79,114; Aug. 9; Gaz. vol. 157; p. 481.
Flour, Wheat-. William Lea & Sons Company. No. 79,132; Aug. 9; Gaz. vol. 157; p. 482.
Flour, Wheat-. A. B. McCrillis & Son. Nos. 79,140–2; Aug. 9; Gaz. vol. 157; p. 482.
Flour, Wheat-. Holt & Company. No. 79,211; Aug. 16; Gaz. vol. 157; p. 750.
Flour, Wheat-. Sparks Milling Company. No. 79,235; Aug. 16; Gaz. vol. 157; p. 750.
Flour, Wheat-. The Big Thompson Milling & Elevator Company. No. 79,248; Aug. 23; Gaz. vol. 157; p. 995.
Flour, Wheat-. Carlyle Milling Company. No. 79,255; Aug. 23; Gaz. vol. 157; p. 995.
Flour, Wheat-. W. F. Brey. No. 79,466; Sept. 13; Gaz. vol. 158; p. 477.
Flour, Wheat-. Crookston Milling Company. No. 79,473; Sept. 13; Gaz. vol. 158; p. 477.
Flour, Wheat-. The Farmers Milling & Mercantile Company. No. 79,478; Sept. 13; Gaz. vol. 158; p. 477.
Flour, Wheat-. J. W. Stephenson. No. 79,531; Sept. 13; Gaz. vol. 158; p. 479.
Flour, Wheat-. The Allen & Wheeler Company. No. 79,544; Sept. 20; Gaz. vol. 158; p. 697.
Flour, Wheat-. O. W. Cleal. No. 79,649; Sept. 27; Gaz. vol. 158; p. 879.
Flour, Wheat-. The Isaac Harter Milling Company. No. 79,668; Sept. 27; Gaz. vol. 158; p. 879.
Flour, Wheat-. Holt & Company. No. 79,672; Sept. 27; Gaz. vol. 158; p. 880.
Flour, Wheat-. Wisconsin Milling Company. No. 79,709; Sept. 27; Gaz. vol. 158; p. 881.
Flour, Wheat-. Red Wing Milling Company. No. 79,858; Oct. 11; Gaz. vol. 159; p. 486.
Flour, Wheat-. E. O. Smith Company. No. 79,866; Oct. 11; Gaz. vol. 159; p. 486.
Flour, Wheat-. Sparks Milling Company. No. 79,867; Oct. 11; Gaz. vol. 159; p. 486.
Flour, Wheat-. D. Stott. No. 79,941; Oct. 18; Gaz. vol. 159; p. 744.
Flour, Wheat-. J. B. Camors & Co. No. 79,960; Oct. 25; Gaz. vol. 159; p. 987.
Flour, Wheat-. The Geo. Tileston Milling Company. No. 80,091; Nov. 1; Gaz. vol. 160; p. 255.
Flour, Wheat-. J. Allen Smith & Company. No. 80,157; Nov. 8; Gaz. vol. 160; p. 490.
Flour, Wheat-. The Geo. Tileston Milling Company. No. 80,200; Nov. 15; Gaz. vol. 160; p. 770.
Flour, Wheat-. The Rea-Patterson Milling Company. No. 80,239; Nov. 22; Gaz. vol. 160; p. 1034.
Flour, Wheat-. American Hominy Company. No. 80,260; Nov. 29; Gaz. vol. 160; p. 1267.
Flour, Wheat-. The Haven Milling Company. No. 80,279; Nov. 29; Gaz. vol. 160; p. 1267.
Flour, Wheat-. Maldonado & Co. No. 80,321; Dec. 6; Gaz. vol. 161; p. 263.
Flour, Wheat-. Western Flour Mill Company. No. 80,331; Dec. 6; Gaz. vol. 161; p. 264.
Flour, Wheat-. The Rea-Patterson Milling Company. No. 80,377; Dec. 13; Gaz. vol. 161; p. 526.
Flour, Wheat-. The Rea-Patterson Milling Company. No. 80,439; Dec. 20; Gaz. vol. 161; p. 750.
Flowers and feather trimmings used in millinery. Ben Strauss Company. No. 77,788; May 10; Gaz. vol. 154; p. 509.
Flowers, Artificial. V. R. Haskins. No. 77,062; Mar. 8; Gaz. vol. 152; p. 483.
Flowers, Artificial. J. Q. Sloan. No. 78,832; July 12; Gaz. vol. 156; p. 535.
Fly-paper, Poisoned. Hingston and Brendlinger. No. 76,812; Feb. 15; Gaz. vol. 151; p. 727.
Fly-killers, Mechanical impact. Ideal Manufacturing Company. No. 79,980; Oct. 25; Gaz. vol. 159; p. 988.
Food and beverage, Certain. International Banana Food Co. No. 76,330; Jan. 4; Gaz. vol. 150; p. 262.
Food, Cereal breakfast. Natural Food Co. No. 76,923; Feb. 22; Gaz. vol. 151; p. 1011.
Food, Cereal breakfast. Minneapolis Cereal Co. No. 79,295; Aug. 23; Gaz. vol. 157; p. 996.
Food, Certain. Austin, Nichols & Co. No. 76,390; Jan. 11; Gaz. vol. 150; p. 566.

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Food, Certain. The Lippincott Co. No. 76,815; Feb. 15; Gaz. vol. 151; p. 727.
Food, Certain. Witwer Brothers Company. No. 77,147; Mar. 15; Gaz. vol. 152; p. 727.
Food composition, Sweetened. G. R. Doughty. No. 79,561; Sept. 20; Gaz. vol. 158; p. 697.
Food, Dietetic. R. Kufeke. No. 77,653; Apr. 26; Gaz. vol. 153; p. 1078.
Food for stock, Grain and mixed. South Texas Grain Company. No. 80,089; Nov. 1; Gaz. vol. 160; p. 255.
Food, Horse, cattle, and swine. A. V. Boggs. No. 78,858; July 19; Gaz. vol. 156; p. 793.
Food, Invalids'. B. Macfadden. No. 76,692; Feb. 8; Gaz. vol. 151; p. 446.
Food, Poultry. J. J. Badenoch Co. No. 78,156; May 31; Gaz. vol. 154; p. 1406.
Food sauces and pastes. Sana Co. No. 77,152; Mar. 15; Gaz. vol. 152; p. 728.
Food, Stock. M. Cohn. No. 76,354; Jan. 11; Gaz. vol. 150; p. 565.
Food, Stock. National Hay, Grain and Storage Co. No. 78,196; May 31; Gaz. vol. 154; p. 1407.
Food, Stock. National Hay, Grain and Storage Co. No. 78,263; May 31; Gaz. vol. 154; p. 1409.
Food, Stock. Peoples Oil & Cotton Co. No. 79,783; Oct. 4; Gaz. vol. 159; p. 239.
Food, Stock and poultry. M. C. Peters Mill Co. No. 76,764; Feb. 15; Gaz. vol. 151; p. 725.
Food, Stock and poultry. Kornfalfa Feed Milling Company. No. 77,163; Mar. 15; Gaz. vol. 152; p. 728.
Food, Stock and poultry. M. C. Peters Mill Co. No. 78,822; July 12; Gaz. vol. 156; p. 534.
Food substances, Biological or bacteriological products for producing fermentation in. H. Deperdussin. No. 76,356; Jan. 11; Gaz. vol. 150; p. 565.
Food, Vegetable protein. F. A. V. Klopfer. No 78,042; May 24; Gaz. vol. 154; p. 1105.
Foods, Breakfast. Postum Cereal Co. Nos. 79,297–8; Aug. 23; Gaz. vol. 157; p. 996.
Foods, Cereal breakfast. Hygienic Food Co. No. 77,651; Apr. 26; Gaz. vol. 153; p. 1078.
Foods, Certain. Cincinnati Abattoir Company. No. 76,275; Jan. 4; Gaz. vol. 150; p. 261.
Foods, Certain. Stone-Ordean-Wells Company. No. 76,313; Jan. 4; Gaz. vol. 150; p. 262.
Foods, Certain. Champlain Valley Association. No. 76,432; Jan. 18; Gaz. vol. 150; p. 821.
Foods, Certain. International Banana Food Co. No. 76,488; Jan. 18; Gaz. vol. 150; p. 823.
Foods, Certain. Stone-Ordean-Wells Company. No. 76,496; Jan. 18; Gaz. vol. 150; p. 823.
Foods, Certain. Western Grocer Company. No. 76,538; Jan. 25; Gaz. vol. 150; p. 1038.
Foods, Certain. Kroger Grocery & Baking Co. No. 76,561; Jan. 25; Gaz. vol. 150; p. 1038.
Foods, Certain. Austin, Nichols & Co. No. 76,614; Feb. 1; Gaz. vol. 151; p. 190.
Foods, Certain. C. Holton & Co. No. 76,618; Feb. 1; Gaz. vol. 151; p. 190.
Foods, Certain. Nave-McCord Mercantile Co. No. 76,629; Feb. 1; Gaz. vol. 151; p. 191.
Foods, Certain. The William Edwards Company. No. 76,705; Feb. 8; Gaz. vol. 151; p. 447.
Foods, Certain. Park & Tilford. No. 76,794; Feb. 15; Gaz. vol. 151; p. 726.
Foods, Certain. St. Francisville Canning Company. No. 77,008; Mar. 1; Gaz. vol. 152; p. 226.
Foods, Certain. J. F. Humphreys & Co. No. 77,069; Mar. 8; Gaz. vol. 152; p. 483.
Foods, Certain. Swift and Company. No. 77,097; Mar. 8; Gaz. vol. 152; p. 484.
Foods, Certain. J. W. Newson. No. 77,327; Mar. 29; Gaz. vol. 152; p. 1220.
Foods, Certain. Roundy, Peckham & Dexter Co. No. 77,333; Mar. 29; Gaz. vol. 152; p. 1220.
Foods, Certain. A. Moll Grocer Co. No. 77,430; Apr. 12; Gaz. vol. 153; p. 541.
Foods, Certain. Sperry Flour Company. No. 77,495; Apr. 12; Gaz. vol. 153; p. 543.
Foods, Certain. Kansas City Preserving and Manufacturing Co. No. 77,546; Apr. 19; Gaz. vol. 153; p. 818.
Foods, Certain. Wadhams & Company. No. 77,588; Apr. 19; Gaz. vol. 153; p. 819.
Foods, Certain. Western Grocer Company. No. 77,683; Apr. 26; Gaz. vol. 153; p. 1079.
Foods, Certain. Reynolds, Davis & Company. No. 77,757; May 3; Gaz. vol. 154; p. 248.
Foods, Certain. Wadhams & Company. No. 77,773; May 3; Gaz. vol. 154; p. 249.
Foods, Certain. The Caruthers-Terry Preserving Company. No. 77,861; May 10; Gaz. vol. 154; p. 511.
Foods, Certain. Spokane Extract & Spice Company. No. 77,963; May 17; Gaz. vol. 154; p. 833.
Foods, Certain. W. Barratt. No. 77,979; May 24; Gaz. vol. 154; p. 1103.
Foods, Certain. E. C. Mathewson. No. 78,015; May 24; Gaz. vol. 154; p. 1104.
Foods, Certain. H. T. Cottam & Co. No. 78,230; May 31; Gaz. vol. 154; p. 1408.
Foods, Certain. John E. Diament Company. No. 78,233; May 31; Gaz. vol. 154; p. 1408.
Foods, Certain. Faxon, Williams & Faxon. No. 78,235; May 31; Gaz. vol. 154; p. 1408.
Foods, Certain. G. F. Sutton Sons & Co. No. 78,284; May 31; Gaz. vol. 154; p. 1409.
Foods, Certain. The Inter-State Grocer Company. No. 78,520; June 21; Gaz. vol. 155; p. 796.
Foods, Certain. Wallace & Thomson. No. 78,557; June 21; Gaz. vol. 155; p. 797.
Foods, Certain. C. von Allmen. No. 78,664; June 28; Gaz. vol. 155; p. 1039.
Foods, Certain. E. C. Mathewson. No. 78,721; July 5; Gaz. vol. 156; p. 254.
Foods, Certain. The Bittman-Todd Grocer Company. No. 78,768; July 12; Gaz. vol. 156; p. 533.
Foods, Certain. Gordon & Dilworth. No. 78,792; July 12; Gaz. vol. 156; p. 534.
Foods, Certain. The H. D. Lee Mercantile Company. No. 78,808; July 12; Gaz. vol. 156; p. 534.
Foods, Certain. National Grocer Company. No. 78,813; July 12; Gaz. vol. 156; p. 534.
Foods, Certain. Wellington Wholesale Grocery Company. No. 78,846; July 12; Gaz. vol. 156; p. 535.
Foods, Certain. Westmoreland Grocery Company. No. 78,921; July 19; Gaz. vol. 156; p. 795.
Foods, Certain. Boren-Stewart Company. No. 79,033; Aug. 2; Gaz. vol. 157; p. 203.
Foods, Certain. Ribo-Werke, G. m. b. H. No. 79,600; Sept. 20; Gaz. vol. 158; p. 698.
Foods, Certain. Crocker Grocery Company. Nos. 79,738–9; Oct. 4; Gaz. vol. 159; p. 237.
Foods, Certain. Francis H. Leggett & Co. No. 79,770; Oct. 4; Gaz. vol. 159; p. 238.
Foods, Certain. Francis H. Leggett & Co. No. 79,988; Oct. 25; Gaz. vol. 159; p. 988.
Foods, Certain. Acker, Merrall & Condit Company. No. 80,165; Nov. 15; Gaz. vol. 160; p. 769.
Foods, Certain. Albert Mackie Grocer Company. No. 80,232; Nov. 22; Gaz. vol. 160; p. 1033.
Foods, Certain. A. Musica & Son. No. 80,286; Nov. 29; Gaz. vol. 160; p. 1267.
Foods, Certain. Kothe, Wells & Bauer Company. No. 80,429; Dec. 20; Gaz. vol. 161; p. 750.
Foods, Certain. J. H. Smith. No. 80,445; Dec. 20; Gaz. vol. 161; p. 750.
Foods, Certain cereal. New Ulm Feed & Cereal Mill Company. No. 76,563; Jan. 25; Gaz. vol. 150; p. 1038.
Foods, Certain named. Casco Bay Packing Company. No. 79,258; Aug. 23; Gaz. vol. 157; p. 995.
Foods, Certain named. Western Grocer Company. No. 79,382; Aug. 30; Gaz. vol. 157; p. 1241.
Foods, Corn breakfast. Postum Cereal Co. No. 80,493; Dec. 27; Gaz. vol. 161; p. 1040.
Foods, eggs, and dressed poultry, Poultry. Owens River Poultry Company. No. 77,136; Mar. 15; Gaz. vol. 152; p. 727.
Foods, Laxative. F. K. Fernald. No. 79,663; Sept. 27; Gaz. vol. 158; p. 879.
Foods, Wheat and barley breakfast. Postum Cereal Co. No. 80,492; Dec. 27; Gaz. vol. 161; p. 1040.
Footwear, Certain leather. Cohen, Frank & Company. No. 77,297; Mar. 29; Gaz. vol. 152; p. 1219.
Freezing, Chemical combination for preventing. The Northwestern Chemical Co. No. 80,436; Dec. 20; Gaz. vol. 161; p. 750.
Fruit juice, Lime-. Evans Sons Lescher & Webb. No. 80,046; Nov. 1; Gaz. vol. 160; p. 253.
Fruit, vegetables, melons, and canned fruits, Fresh. California Farmers' Union. No. 79,816; Oct. 11; Gaz. vol. 159; p. 485.
Fruits and pecan-nuts, Citrus. Sampson Grove. No. 80,379; Dec. 13; Gaz. vol. 161; p. 526.
Fruits and raisins, Dried. Castle Brothers. No. 76,558; Jan. 25; Gaz. vol. 150; p. 1038.
Fruits and raisins, Dried. Castle Brothers. No. 76,754; Feb. 15; Gaz. vol. 151; p. 725.
Fruits and vegetables, Fresh. F. D. Nichols. No. 79,226; Aug. 16; Gaz. vol. 157; p. 750.
Fruits, Citrus. Ontario-Cucamonga Fruit Exchange. No. 76,836; Feb. 15; Gaz. vol. 151; p. 728.
Fruits, Citrus. Indian Hill Citrus Association. No. 76,919; Feb. 22; Gaz. vol. 151; p. 1011.
Fruits, Citrus. Ontario-Cucamonga Fruit Exchange. No. 77,328; Mar. 29; Gaz. vol. 152; p. 1220.
Fruits, Citrus. Indian Hill Citrus Association. No. 77,468; Apr. 12; Gaz. vol. 153; p. 542.
Fruits, Dried. The J. K. Armsby Co. No. 76,691; Feb. 8; Gaz. vol. 151; p. 446.
Fruits, Dried and evaporated. R. C. Williams & Co. No. 78,849; July 12; Gaz. vol. 156; p. 535.
Fruits, Fresh. E. G. and A. H. Vivell. No. 78,217; May 31; Gaz. vol. 154; p. 1407.
Fruits, Fresh and dried. California Farmers' Union. No. 79,893; Oct. 18; Gaz. vol. 159; p. 743.
Fumigating compound. Strawsons & Company. No. 79,308; Aug. 23; Gaz. vol. 157; p. 996.
Funnels. Dover Stamping and Manufacturing Company. No. 79,110; Aug. 9; Gaz. vol. 157; p. 481.
Furnaces. Marshall Furnace Company. No 80,283; Nov. 29; Gaz. vol. 160; p. 1267.

Alphabetical list of trade-marks—Continued.

Furnaces and cooking stoves and ranges, Heating-. Model Heating Company. No. 76,402; Jan. 11; Gaz. vol. 150; p. 566.
Furnaces and parts thereof, Oil, coal, and gas. Rockwell Furnace Company. No. 79,524; Sept. 13; Gaz. vol. 158; p. 479.
Furnaces, forges, lamps, boilers, &c. Aktiebolaget B. A. Hjorth & Co. No. 79,424; Sept. 6; Gaz. vol. 158; p. 224.
Furnishings, Certain. Susquehanna Silk Mills. No. 78,141; May 31; Gaz. vol. 154; p. 1405.
Furnishings, Certain. Susquehanna Silk Mills. No. 78,363; June 7; Gaz. vol. 155; p. 303.
Furniture, Cane and wickerwork. H. H. Peach. No. 77,482; Apr. 12; Gaz. vol. 153; p. 542.
Furniture, Certain. Wilson & Mayers. No. 76,409; Jan. 11; Gaz. vol. 150; p. 566.
Furniture, Certain. M. Winter Lumber Co. No. 77,422; Apr. 5; Gaz. vol. 153; p. 268.
Furniture, Certain. W. Ludwig Schultze Company. No. 77,853; May 10; Gaz. vol. 154; p. 511.
Furniture, Certain. Charles P. Limbert Company. No. 78,531; June 21; Gaz. vol. 155; p. 796.
Furniture, Certain. Charles H. Thuner Furniture & Carpet Co. No. 80,250; Nov. 22; Gaz. vol. 160; p. 1034.
Furniture, Certain. E. Willbrandt. No. 80,332; Dec. 6; Gaz. vol. 161; p. 264.
Furniture-polish. D. Hines & Company. No. 76,937; Feb. 22; Gaz. vol. 151; p. 1011.
Furniture-polish. D. H. Smith. No. 77,578; Apr. 19; Gaz. vol. 153; p. 819.
Furniture-polish. J. M. Barth. No. 80,205; Nov. 22; Gaz. vol. 160; p. 1033.
Furniture-polishes. Penn Manufacturing Co. No. 79,516; Sept. 13; Gaz. vol. 158; p. 478.
Furniture-polishes. W. McKinley. No. 79,844; Oct. 11; Gaz. vol. 159; p. 486.
Fuses, Blasting-. Coast Manufacturing & Supply Co. No. 79,822; Oct. 11; Gaz. vol. 159; p. 485.
Gages, indicators, and regulators, Fluid-pressure. A. Schrader's Son. No. 79,620; Sept. 20; Gaz. vol. 158; p. 699.
Gages, Recording-. American Steam Gauge & Valve Mfg. Co. No. 76,522; Jan. 25; Gaz. vol. 150; p. 1037.
Game. Gesellschaft für Sportartikel m. b. H. No. 76,309; Jan. 4; Gaz. vol. 150; p. 262.
Game. Milton Bradley Company. Nos. 76,369–70; Jan. 11; Gaz. vol. 150; p. 565.
Game. Cushman & Denison Manufacturing Company. No. 76,756; Feb. 15; Gaz. vol. 151; p. 725.
Game and puzzle, Base-ball. G. W. Blank. No. 77,020; Mar. 1; Gaz. vol. 152; p. 227.
Game-board. J. W. Prinkey. No. 79,077; Aug. 2; Gaz. vol. 157; p. 204.
Game-board. E. A. Bailey. No. 79,461; Sept. 13; Gaz. vol. 158; p. 477.
Game-boards. J. P. Grosvenor. No. 76,511; Jan. 25; Gaz. vol. 150; p. 1037.
Game, Card. A. B. Clemens. No. 76,565; Feb. 1; Gaz. vol. 151; p. 189.
Game, Card. H. H. Morse. No. 79,073; Aug. 2; Gaz. vol. 157; p. 204.
Game, Card. L. L. Hixson. No. 80,360; Dec. 13; Gaz. vol. 161; p. 525.
Game-scoring boards. J. W. Baker. No. 77,438; Apr. 12; Gaz. vol. 153; p. 541.
Games. E. W. Williams. Nos. 77,279–80; Mar. 22; Gaz. vol. 152; p. 955.
Games. W. L. Deming. No. 80,417; Dec. 20; Gaz. vol. 161; p. 749.
Garbage-crematories. Incinerator Company of America. No. 80,478; Dec. 27; Gaz. vol. 161; p. 1039.
Gargle. Dr. Löloff & Dr. Mayer. No. 77,658; Apr. 26; Gaz. vol. 153; p. 1078.
Garment-hangers for wardrobes. J. T. Batts. Nos. 77,032–3; Mar. 1; Gaz. vol. 152; p. 227.
Garment-stays, Wire. Barcley Corset Company. No. 78,567; June 28; Gaz. vol. 155; p. 1037.
Garments, Certain athletic. Treinis Bros. No. 79,452; Sept. 6; Gaz. vol. 158; p. 225.
Garter-webs and hair-nets. Poirier & Lindeman. No. 78,127; May 31; Gaz. vol. 154; p. 1405.
Garters. C. P. Evans. No. 77,627; Apr. 26; Gaz. vol. 153; p. 1077.
Garters. George Frost Company. No. 79,118; Aug. 9; Gaz. vol. 157; p. 481.
Garters, belts, shoulder-braces, and garment-supporters. Baire Bros. & Co. No. 78,409; June 14; Gaz. vol. 155; p. 549.
Garters, Men's. Pioneer Suspender Company. No. 77,056; Mar. 8; Gaz. vol. 152; p. 483.
Garters, Men's. Cincinnati Garter Manufacturing Company. No. 78,586; June 28; Gaz. vol. 155; p. 1037.
Gas-analyzing apparatus and repair parts therefor. O. Rodhe. No. 77,884; May 10; Gaz. vol. 154; p. 512.
Gas burners, Acetylene-. Geo. Bray & Co. No. 76,715; Feb. 8; Gaz. vol. 151; p. 447.
Gas-burners and gas-mantles, Incandescent. Block Light Company. No. 79,024; July 26; Gaz. vol. 156; p. 1063.
Gas burners and heaters. H. Hertzberg. No. 79,757; Oct. 4; Gaz. vol. 159; p. 238.
Gas burners and tips. American Lava Co. No. 79,885; Oct. 18; Gaz. vol. 159; p. 743.
Gas, Chemicals used for the purification of acetylene. The Commercial Acetylene Company. No. 78,066; May 31; Gaz. vol. 154; p. 1403.
Gas, Chlorin. Electro Bleaching Gas Company. No. 76,714; Feb. 8; Gaz. vol. 151; p. 447.
Gas-lamp parts, Certain. Hartford Faience Company. No. 77,023; Mar. 1; Gaz. vol. 152; p. 227.
Gas, Metal receptacles to contain. Aerators Limited. No. 79,949; Oct. 25; Gaz. vol. 159; p. 987.
Gas-purifying material. Connelly Iron Sponge & Governor Company. No. 77,904; May 17; Gaz. vol. 154; p. 831.
Gas-tanks. D. L. Solomon. No. 79,015; July 26; Gaz. vol. 156; p. 1063.
Gases, Mixing devices for. Gasoline Motor Efficiency Company. No. 77,533; Apr. 19; Gaz. vol. 153; p. 817.
Gasolene. Waters Pierce Oil Company. No. 78,473; June 14; Gaz. vol. 155; p. 551.
Gasolene-engines. Rockwell Manufacturing Company. No. 80,084; Nov. 1; Gaz. vol. 160; p. 255.
Gears, brakes, and parts thereof, Certain. Schweinfurter Präcisions-Kugel-Lager-Werke, Fichtel & Sachs. No. 77,142; Mar. 15; Gaz. vol. 152; p. 727.
Gelatin. The Cox Gelatine Company. No. 76,681; Feb. 8; Gaz. vol. 151; p. 446.
Geneva, Straight. Blankenheym & Nolet's Distilleerderij. Nos. 76,707–8; Feb. 8; Gaz. vol. 151; p. 447.
Germicides, disinfectants, and vermin-exterminators. Poultry Dust Bath Company. No. 79,229; Aug. 16; Gaz. vol. 157; p. 750.
Gin. Burrichter Bros. No. 78,037; May 24; Gaz. vol. 154; p. 1104.
Gin. P. Loopuyt & Co. No. 78,043; May 24; Gaz. vol. 154; p. 1105.
Gin, Compound. J. Moroney. No. 79,224; Aug. 16; Gaz. vol. 157; p. 750.
Gin, Dry. Gordon Bitters Co. No. 78,415; June 14; Gaz. vol. 155; p. 549.
Gin, Holland. Strauss & Co. No. 78,549; June 21; Gaz. vol. 155; p. 797.
Gin, Tom. J. S. Smith, Druce & Co. No. 76,623; Feb. 1; Gaz. vol. 151; p. 190.
Gingerbread, chocolate, honey-cake, cakes, &c. H. Haeberlein. No. 80,182; Nov. 15; Gaz. vol. 160; p. 769.
Ginghams. Harris-Lipsitz Company. No. 78,093; May 31; Gaz. vol. 154; p. 1404.
Ginghams. Harris-Lipsitz Company. No. 80,315; Dec. 6; Gaz. vol. 161; p. 263.
Ginghams, shirtings, and chambrays. The G. A. Stafford & Co. Nos. 79,529–30; Sept. 13; Gaz. vol. 158; p. 479.
Glass and metal cleaning preparation. C. Thornton. No. 79,535; Sept. 13; Gaz. vol. 158; p. 479.
Glass bottles. A. F. McDonnell. No. 77,405; Apr. 5; Gaz. vol. 153; p. 268.
Glass globes and chimneys, Lantern and lamp. Corning Glass Works. No. 78,942; July 26; Gaz. vol. 156; p. 1061.
Glass lamp-chimneys and lantern-globes. Norvell-Shapleigh Hardware Company. No. 78,730; July 5; Gaz. vol. 156; p. 254.
Glassware. Holophane Glass Company. Nos. 78,709–13; July 5; Gaz. vol. 156; p. 254.
Glassware. Daudt Glass & Crockery Company. No. 78,867; July 19; Gaz. vol. 156; p. 793.
Glassware. Baltimore Bargain House. No. 79,397; Sept. 6; Gaz. vol. 158; p. 223.
Glassware, Certain. Fostoria Glass Company. No. 78,702; July 5; Gaz. vol. 156; p. 254.
Glassware, Cut. T. B. Clark & Co. No. 78,588; June 28; Gaz. vol. 155; p. 1037.
Gloves. Julius Kayser & Company. No. 77,596; Apr. 19; Gaz. vol. 153; p. 819.
Gloves. Hutchens & Potter. Nos. 78,005–6; May 24; Gaz. vol. 154; p. 1104.
Gloves. J. E. Wunsch. No. 78,477; June 14; Gaz. vol. 155; p. 551.
Gloves. John Wanamaker, New York. No. 79,019; July 26; Gaz. vol. 156; p. 1063.
Gloves. Reliance Glove Co. No. 79,859; Oct. 11; Gaz. vol. 159; p. 486.
Gloves and hand-leathers. Special Glove and Notion Company. No. 79,797; Oct. 4; Gaz. vol. 159; p. 239.
Gloves and mittens, Leather and textile. Edward Lefi Co. No. 76,667; Feb. 8; Gaz. vol. 151; p. 446.
Gloves, Base-ball. Chicago Sporting Goods Mfg. Co. No. 80,107; Nov. 8; Gaz. vol. 160; p. 489.
Gloves, gauntlets, and mittens, Leather. Joseph N. Eisendrath Company. Nos. 76,857–8; Feb. 22; Gaz. vol. 151; p. 1009.
Gloves, gauntlets, and mittens, Leather. The Joseph N. Eisendrath Company. Nos. 77,071–2; Mar. 8; Gaz. vol. 152; p. 483.
Gloves, Kid. Brown Durrell Co. No. 76,737; Feb. 15; Gaz. vol. 151; p. 725.
Gloves, Kid. L. Grässer. No. 79,419; Sept. 6; Gaz. vol. 158; p. 224.
Gloves, Leather. Carson Glove Co. No. 76,849; Feb. 22; Gaz. vol. 151; p. 1009.

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Gloves, Leather. Carson Glove Co. No. 77,199; Mar. 22; Gaz. vol. 152; p. 953.
Gloves, Leather. Carson Glove Co. No. 77,292; Mar. 29; Gaz. vol. 152; p. 1219.
Gloves, Leather. California Glove Company. No. 77,513; Apr. 19; Gaz. vol. 153; p. 817.
Gloves, Leather. Geshlider Bros. No. 78,085; May 31; Gaz. vol. 154; p. 1404.
Gloves, Leather and cloth. C. H. Phillips. No. 76,552; Jan. 25; Gaz. vol. 150; p. 1038.
Gloves, mittens, and fur coats. Ellsworth and Thayer Manufacturing Company. No. 79,566; Sept. 20; Gaz. vol. 158; p. 697.
Gloves, mittens, and gauntlets, Leather. The Joseph N. Eisendrath Company. No. 78,073; May 31; Gaz. vol. 154; p. 1403.
Gloves, Working-. C. E. Reicks. No. 77,756; May 3; Gaz. vol. 154; p. 248.
Glue. P. Puttmann. No. 76,459; Jan. 18; Gaz. vol. 150; p. 822.
Glue. J. S. Sorenson. No. 76,462; Jan. 18; Gaz. vol. 150; p. 822.
Glue. H. F. Robinson. No. 77,883; May 10; Gaz. vol. 154; p. 512.
Glue. H. L. Hunter. No. 79,913; Oct. 18; Gaz. vol. 159; p. 744.
Glue and gelatin. Naamlooze Vennootschap lijm-en Gelatinefabriek "Delft." No. 78,894; July 19; Gaz. vol. 156; p. 794.
Go-carts, Children's. M. J. Foyer. No. 78,788; July 12; Gaz. vol. 156; p. 534.
Golf-balls. A. G. Spalding & Bros. No. 77,018; Mar. 1; Gaz. vol. 152; p. 227.
Golf-balls. St. Mungo Manufacturing Company. No. 79,011; July 26; Gaz. vol. 156; p. 1063.
Golf-balls. A. G. Spalding & Bros. No. 79,796; Oct. 4; Gaz. vol. 159; p. 239.
Golf-balls. A. G. Spalding & Bros. No. 79,938; Oct. 18; Gaz. vol. 159; p. 744.
Golf-balls. A. G. Spalding & Bros. No. 80,244; Nov. 22; Gaz. vol. 160; p. 1034.
Golf-clubs. G. H. Bryant. No. 78,492; June 21; Gaz. vol. 155; p. 795.
Grain, Dried brewer's. Atlantic Export Company. No. 80,166; Nov. 15; Gaz. vol. 160; p. 769.
Grain-separators and threshing-machines. Robinson & Co. No. 79,698; Sept. 27; Gaz. vol. 158; p. 880.
Granite manufactures for building, paving, or decoration. Brookes Limited. No. 78,036; May 24; Gaz. vol. 154; p. 1104.
Granite, Rough. Broad River Granite Company. No. 80,265; Nov. 29; Gaz. vol. 160; p. 1267.
Granite, Rough or unmanufactured. Brookes Limited. No. 79,887; Oct. 18; Gaz. vol. 159; p. 743.
Grape-juice. Harris Grape Juice Co. No. 78,419; June 14; Gaz. vol. 155; p. 550.
Grape-juice. Harris Grape Juice Co. Nos. 78,795–6; July 12; Gaz. vol. 156; p. 534.
Grapes. M. D. Buskirk & Son. No. 78,582; June 28; Gaz. vol. 155; p. 1037.
Grass-seed and manure, Mixture of. Dormant Sod Company. No. 80,112; Nov. 8; Gaz. vol. 160; p. 489.
Gravers and graver-handles. Hammel, Riglander & Co. No. 77,310; Mar. 29; Gaz. vol. 152; p. 1219.
Grease, Axle and lubricating. The Red "C" Oil M'f'g Co. of Baltimore City. No. 80,152; Nov. 8; Gaz. vol. 160; p. 490.
Grease compound for filling pits in cylinders. Crescent Paste Co. No. 79,651; Sept. 27; Gaz. vol. 158; p. 879.
Grease-cups, disk wheels, and taps. Charles H. Besly & Company. No. 80,102; Nov. 8; Gaz. vol. 160; p. 489.
Grease, Lubricating-. Rohrbacher Automatic Air Pump Co. No. 79,301; Aug. 23; Gaz. vol. 157; p. 996.
Grease, Lubricating and yarn. Cataract Refining and Manufacturing Company. No. 80,268; Nov. 29; Gaz. vol. 160; p. 1267.
Grease, Stuffing-box and machinery. F. Burgmann. No. 77,449; Apr. 12; Gaz. vol. 153; p. 541.
Greases and oils, Lubricating. Alden S. Swan & Co. No. 78,550; June 21; Gaz. vol. 155; p. 797.
Greases, Lubricating-. Warren Lubricant Company. No. 76,335; Jan. 4; Gaz. vol. 150; p. 263.
Grinding-bodies, Metallic. F. L. Smidth & Co. No. 78,651; June 28; Gaz. vol. 155; p. 1039.
Grinding-machines. Charles H. Besly & Company. No. 78,486; June 21; Gaz. vol. 155; p. 795.
Grinding-mills. O. Simpson. No. 77,180; Mar. 15; Gaz. vol. 152; p. 728.
Guitar capo tastos. The Rudolph Wurlitzer Co. Nos. 78,369–71; June 7; Gaz. vol. 155; p. 303.
Gum, Chewing-. Schandein & Lind. No. 76,701; Feb. 8; Gaz. vol. 151; p. 446.
Gum, Chewing-. Bee Bee Confection Co. No. 76,751; Feb. 15; Gaz. vol. 151; p. 725.
Gum, Chewing-. J. H. Bouford. Nos. 76,779–81; Feb. 15; Gaz. vol. 151; p. 726.
Gum, Chewing-. J. H. Bouford. No. 76,899; Feb. 22; Gaz. vol. 151; p. 1010.
Gum, Chewing-. R. Tikijian. No. 77,344; Mar. 29; Gaz. vol. 152; p. 1220.
Gum, Chewing-. Schaudein & Lind. No. 77,574; Apr. 19; Gaz. vol. 153; p. 819.
Gum, Chewing-. Gum Supply Co. No. 79,276; Aug. 23; Gaz. vol. 157; p. 996.
Gum, Chewing-. Hyde & Chappel. No. 79,425; Sept. 6; Gaz. vol. 158; p. 224.
Gum, Chewing-. Colgan Gum Co. No. 79,558; Sept. 20; Gaz. vol. 158; p. 697.
Gum, Chewing-. Reliable Vending Co. No. 79,998; Oct. 25; Gaz. vol. 159; p. 988.
Gum-drops, Licorice. National Candy Company. No. 78,812; July 12; Gaz. vol. 156; p. 534.
Gums, Certain. Danker & Marston. No. 78,166; May 31; Gaz. vol. 154; p. 1406.
Gun-sights. Bausch & Lomb Optical Co. No. 79,463; Sept. 13; Gaz. vol. 158; p. 477.
Haddock, Smoked shore-. Freeman & Cobb Co. No. 78,505; June 21; Gaz. vol. 155; p. 795.
Hair and scalp, Compound for treating the. W. J. Scherer. No. 76,305; Jan. 4; Gaz. vol. 150; p. 262.
Hair-coloring preparation. Rainbow Dye Co. No. 77,569; Apr. 19; Gaz. vol. 153; p. 819.
Hair dressing and invigorant. Philo Hay Specialties Co. No. 79,856; Oct. 11; Gaz. vol. 159; p. 486.
Hair dressing and tonic. Giroux Manufacturing Company. No. 80,277; Nov. 29; Gaz. vol. 160; p. 1267.
Hair goods. A. Steinhardt & Bro. No. 79,798; Oct. 4; Gaz. vol. 159; p. 239.
Hair goods. Morris, Mann & Reilly. No. 80,192; Nov. 15; Gaz. vol. 160; p. 769.
Hair goods, Certain. H. Salomons. No. 77,335; Mar. 29; Gaz. vol. 152; p. 1220.
Hair, Human and animal. L. Levussove. No. 76,491; Jan. 18; Gaz. vol. 150; p. 823.
Hair-nets. L. Pfeiffer. Nos. 76,373–5; Jan. 11; Gaz. vol. 150; p. 565.
Hair-nets. Theo. H. Gary Co. No. 76,536; Jan. 25; Gaz. vol. 150; p. 1038.
Hair-nets. F. Ludewig & Co. No. 79,349; Aug. 30; Gaz. vol. 157; p. 1240.
Hair-nets. F. Ludewig & Co. No. 79,502; Sept. 13; Gaz. vol. 158; p. 478.
Hair-nets. Marlowe Manufacturing Company. No. 80,072; Nov. 1; Gaz. vol. 160; p. 254.
Hair-nets and veils. H. A. Staunton. No. 76,660; Feb. 8; Gaz. vol. 151; p. 445.
Hair-pins. William H. Cole & Co. No. 76,577; Feb. 1; Gaz. vol. 151; p. 189.
Hair-pins and combs, Celluloid. Pacific Novelty Company. No. 78,440; June 14; Gaz. vol. 155; p. 550.
Hair-restorer. M. O'Hegan. No. 76,289; Jan. 4; Gaz. vol. 150; p. 261.
Hair-rolls. Guthman, Solomons & Co. No. 78,966; July 26; Gaz. vol. 156; p. 1062.
Hair-tonic. L. Kuntscher. No. 78,106; May 31; Gaz. vol. 154; p. 1404.
Hair-tonic. P. M. Sims. No. 79,701; Sept. 27; Gaz. vol. 158; p. 880.
Hair-tonic. C. F. Wagner. No. 79,870; Oct. 11; Gaz. vol. 159; p. 486.
Hair-tonic and scalp or skin remedy. J. Ferond. No. 80,116; Nov. 8; Gaz. vol. 160; p. 489.
Hair-tonic, face-powder, and cold-cream. Sulphume Company. No. 80,498; Dec. 27; Gaz. vol. 161; p. 1040.
Hair-tonics. M. A. Liotta Chemical Company. No. 76,416; Jan. 11; Gaz. vol. 150; p. 567.
Hair-tonics. B. de la Prida. No. 79,693; Sept. 27; Gaz. vol. 158; p. 880.
Hair-tonics. T. Zanetti. No. 80,013; Oct. 25; Gaz. vol. 159; p. 988.
Hair-tonics. J. V. Klein. No. 80,129; Nov. 8; Gaz. vol. 160; p. 489.
Haircloth in the piece. J. Hymans. No. 79,057; Aug. 2; Gaz. vol. 157; p. 203.
Ham and bacon. Fred. Eckart Packing Company. No. 77,306; Mar. 29; Gaz. vol. 152; p. 1219.
Ham, bacon, dried beef, and lard. W. Moland's Sons. No. 77,821; May 10; Gaz. vol. 154; p. 510.
Ham, olives, sausage, tea, and cheese. E. C. Mathewson. No. 77,936; May 17; Gaz. vol. 154; p. 832.
Hams and bacon. F. Schenk & Sons Co. No. 77,354; Mar. 29; Gaz. vol. 152; p. 1221.
Hams, bacon, and lard. W. C. Routh & Co. Nos. 79,787–8; Oct. 4; Gaz. vol. 159; p. 239.
Hams, bacon, pork sausage, &c. Springfield Provision Company. No. 79,375; Aug. 30; Gaz. vol. 157; p. 1240.
Hammocks. D. W. Shoyer & Co. No. 76,380; Jan. 11; Gaz. vol. 150; p. 566.
Hammocks. H. L. Hohlfeld. No. 79,339; Aug. 30; Gaz. vol. 157; p. 1239.
Hammocks. Hemlock Manufacturing Co. No. 79,832; Oct. 11; Gaz. vol. 159; p. 485.
Hammocks and swings. Wheeler & Wilson. No. 76,662; Feb. 8; Gaz. vol. 151; p. 445.
Hammocks, Bed and couch. Fellows & Co. No. 79,479; Sept. 13; Gaz. vol. 158; p. 477.
Hammocks, Canvas. Kattmann & Kneeland Tent Co. No. 76,760; Feb. 15; Gaz. vol. 151; p. 725.
Hand-cleaning paste, Detergent. F. W. Gardner. No. 79,271; Aug. 23; Gaz. vol. 157; p. 995.

Alphabetical list of trade-marks—Continued.

Handkerchiefs. Heller & Long. No. 76,329; Jan. 4; Gaz. vol. 150; p. 262.
Handkerchiefs. Brown Durrell Co. No. 77,290; Mar. 29; Gaz. vol. 152; p. 1219.
Handkerchiefs. Ottenheimer & Co. No. 77,560; Apr. 19; Gaz. vol. 153; p. 818.
Handkerchiefs. Carson, Pirie, Scott & Co. No. 77,703; May 3; Gaz. vol. 154; p. 247.
Handkerchiefs. Herrmann, Aukam & Co. Nos. 78,002–4; May 24; Gaz. vol. 154; p. 1103.
Handkerchiefs. Ottenheimer & Co. No. 78,123; May 31; Gaz. vol. 154; p. 1405.
Handkerchiefs. M. Isaacs. No. 78,608; June 28; Gaz. vol. 155; p. 1038.
Handkerchiefs. Cochrane Manufacturing Co. No. 78,689; July 5; Gaz. vol. 156; p. 253.
Handkerchiefs. H. Rosenthal & Co. No. 78,909; July 19; Gaz. vol. 156; p. 794.
Handkerchiefs. Brandon-Magnus Co. Nos. 80,030–1; Nov. 1; Gaz. vol. 160; p. 253.
Handkerchiefs, Cotton. Tootal Broadhurst Lee Company. Nos. 77,770–1; May 3; Gaz. vol. 154; p. 249.
Hardware and metal articles, Certain. The Wire Goods Company. No. 78,753; July 5; Gaz. vol. 156; p. 255.
Hardware, Certain. The Champion Safety Lock Company. No. 78,310; June 7; Gaz. vol. 155; p. 301.
Hardware, Certain. Russell & Erwin Manufacturing Company. No. 78,910; July 19; Gaz. vol. 156; p. 794.
Hardware, Certain. Roberts, Sanford & Taylor Co. No. 79,300; Aug. 23; Gaz. vol. 157; p. 996.
Hardware, Harness. North & Judd Manufacturing Company. No. 77,878; May 10; Gaz. vol. 154; p. 511.
Harness. Covert Mfg. Co. No. 76,852; Feb. 22; Gaz. vol. 151; p. 1009.
Harness hardware. Eberhard Mfg. Co. No. 76,393; Jan. 11; Gaz. vol. 150; p. 566.
Harness hardware. Covert Mfg. Co. No. 77,454; Apr. 12; Gaz. vol. 153; p. 541.
Harness hardware. Russell & Erwin Manufacturing Company. No. 78,645; June 28; Gaz. vol. 155; p. 1039.
Harness hardware, Certain. Eberhard Mfg. Co. Nos. 77,205–9; Mar. 22; Gaz. vol. 152; p. 953.
Harness-pads. A. L. Johns. No. 78,976; July 26; Gaz. vol. 156; p. 1062.
Harness, saddles, and horse-collars. Montgomery-Moore Mfg. Co. No. 79,847; Oct. 11; Gaz. vol. 159; p. 486.
Harness sweat-pads. J. Nakies and Company. No. 76,862; Feb. 22; Gaz. vol. 151; p. 1009.
Harrows, plows, cultivators, and seeders. The Cutaway Harrow Co. No. 77,388; Apr. 5; Gaz. vol. 153; p. 267.
Harvesters, binders, reapers, and mowers. Walter A. Wood Mowing & Reaping Machine Company. No. 78,219; May 31; Gaz. vol. 154; p. 1407.
Harvesters, Cotton-. H. E. & J. E. Bullock. No. 76,270; Jan. 4; Gaz. vol. 150; p. 261.
Hatch-boxes for metal pipes. National Water Main Cleaning Co. No. 76,528; Jan. 25; Gaz. vol. 150; p. 1037.
Hatchets, screw-drivers, and steel knives. Burgess-Norton Mfg. Company. No. 77,222; Mar. 22; Gaz. vol. 152; p. 953.
Hats. Werner & Werner Clothing & Furnishing Goods Co. Nos. 79,176–7; Aug. 9; Gaz. vol. 157; p. 483.
Hats. No Name Hat M'f'g Co. No. 79,927; Oct. 18; Gaz. vol. 159; p. 744.
Hats and caps. Francis Company. No. 76,438; Jan. 18; Gaz. vol. 150; p. 821.
Hats and caps. Charles S. Merton & Co. No. 76,444; Jan. 18; Gaz. vol. 150; p. 821.
Hats and caps. Robert J. MacFarland & Company. No. 77,491; Apr. 12; Gaz. vol. 153; p. 542.
Hats and caps. Sarnoff Bros. No. 77,675; Apr. 26; Gaz. vol. 153; p. 1079.
Hats and caps. Charles S. Merton & Co. No. 79,293; Aug. 23; Gaz. vol. 157; p. 996.
Hats and caps. Goorin, Shapira & Company. No. 79,337; Aug. 30; Gaz. vol. 157; p. 1239.
Hats and caps. The Cravenette Company. No. 80,270; Nov. 29; Gaz. vol. 160; p. 1267.
Hats and caps, Men's. H. H. Roelofs and Company. No. 78,131; May 31; Gaz. vol. 154; p. 1405.
Hats, Felt. The Fay-Gorman Company. No. 78,079; May 31; Gaz. vol. 154; p. 1403.
Hats, Felt. Mossant, Vallon & Argod. No. 79,440; Sept. 6; Gaz. vol. 158; p. 224.
Hats, Ladies'. Liebstadter Millinery Co. No. 78,332; June 7; Gaz. vol. 155; p. 302.
Hats, Men's felt. F. Berg & Co. No. 78,931; July 26; Gaz. vol. 156; p. 1061.
Hats, Men's fur. Gauss-Langenberg Hat Company. No. 78,084; May 31; Gaz. vol. 154; p. 1404.
Hats, overcoats, coats, &c. S. Rosenthal. No. 80,441; Dec. 20; Gaz. vol. 161; p. 750.
Hats, Soft and stiff felt. F. Berg & Co. No. 80,024; Nov. 1; Gaz. vol. 160; p. 253.
Hats, Straw. Francis Company. No. 76,359; Jan. 11; Gaz. vol. 150; p. 565.
Hay-stackers and sweep-rakes. F. Wyatt. No. 77,016; Mar. 1; Gaz. vol. 152; p. 227.
Heat-non-conducting coverings. Ehret Magnesia Manufacturing Company. No. 78,500; June 21; Gaz. vol. 155; p. 795.
Heaters, cooking-ovens, and radiators, Electric water-. G. J. L. Nicholson. No. 79,145; Aug. 9; Gaz. vol. 157; p. 482.
Heaters, furnaces, and torches, Certain. Rolf-Martin Company. No. 76,630; Feb. 1; Gaz. vol. 151; p. 191.
Heating and ventilating apparatus, Steam-. Warren Webster & Co. No. 77,276; Mar. 22; Gaz. vol. 152; p. 955.
Heating and ventilating apparatus, Steam-. Warren Webster & Co. No. 77,591; Apr. 19; Gaz. vol. 153; p. 819.
Heating apparatus and parts thereof, Steam-. Ward Equipment Company. No. 77,590; Apr. 19; Gaz. vol. 153; p. 819.
Heating apparatus, Certain. The Graff Company. No. 78,876; July 19; Gaz. vol. 156; p. 793
Heating apparatus, Steam-. Warren Webster & Co. No. 77,854; May 10; Gaz. vol. 154; p. 511.
Herb tea. C. A. Popp. No. 76,838; Feb. 15; Gaz. vol. 151; p. 728.
Herb tea. Fulford-Hanson Co. No. 78,959; July 26; Gaz. vol. 156; p. 1062.
Herbs, Alcoholic extract of Alpine. F. Kutschera. No. 78,668; June 28; Gaz. vol. 155; p. 1039.
Herring, Salted. Betz & van Heijst. No. 79,465; Sept. 13; Gaz. vol. 158; p. 477.
Herrings, Smoked. T. V. Tokstad. No. 80,392; Dec. 13; Gaz. vol. 161; p. 526.
Hide-powder. W. H. Teas. No. 76,824; Feb. 15; Gaz. vol. 151; p. 727.
Hinges. Chicago Spring Butt Company. No. 77,295; Mar. 29; Gaz. vol. 152; p. 1219.
Hinges, Steel. Stanley Works. No. 76,520; Jan. 25; Gaz. vol. 150; p. 1037.
Hinges, Steel. The Stanley Works. No. 78,461; June 14; Gaz. vol. 155; p. 551.
Hinges, Wrought-steel butt-. The Stanley Works. Nos. 78,654–8; June 28; Gaz. vol. 155; p. 1039.
Hinges, Wrought-steel butt-. The Stanley Works. No. 79,236; Aug. 16; Gaz. vol. 157; p. 750.
Hobby-horses and carts and toys. H. W. McClure. No. 80,482; Dec. 27; Gaz. vol. 161; p. 1039.
Hoes and shovels, Metal. The Chillington Tool Company. No. 79,468; Sept. 13; Gaz. vol. 158; p. 477.
Hollow ware, Certain. Ernest Stevens, Limited. No. 77,525; Apr. 19; Gaz. vol. 153; p. 817.
Hones, oil and whet stones. S. R. Droescher. No. 80,308; Dec. 6; Gaz. vol. 161; p. 263.
Honey and jellies. C. W. Finch. No. 79,745; Oct. 4; Gaz. vol. 159; p. 237.
Honey, Strained. Francis H. Leggett & Co. No. 79,989; Oct. 25; Gaz. vol. 159; p. 988.
Hoof-pads. Morgan & Wright. Nos. 77,939–41; May 17; Gaz. vol. 154; p. 832.
Hooks and eyes. American Pin Co. No. 76,500; Jan. 25; Gaz. vol. 150; p. 1037.
Hooks and eyes. Yeiser Hook and Eye Company. No. 76,646; Feb. 8; Gaz. vol. 151; p. 445.
Hooks and eyes. The Sterling Pin Co. No. 78,547; June 21; Gaz. vol. 155; p. 797.
Hooks and eyes. The Yeiser Hook and Eye Company. No. 78,562; June 21; Gaz. vol. 155; p. 797.
Hooks and eyes and snap-fastenings. Brown Durrell Co. No. 79,889; Oct. 18; Gaz. vol. 159; p. 743.
Hooks and eyes for garments. The Sterling Pin Co. No. 78,362; June 7; Gaz. vol. 155; p. 303.
Horn-reed, Automobile. F. Bishop. No. 80,458; Dec. 27; Gaz. vol. 161; p. 1039.
Horns and violins. The Rudolph Wurlitzer Co. No. 76,639; Feb. 8; Gaz. vol. 151; p. 445.
Horns and violins, Brass. The Rudolph Wurlitzer Co. No. 76,641; Feb. 8; Gaz. vol. 151; p. 445.
Horns, violins, and mandolin-tailpieces, Brass. The Rudolph Wurlitzer Co. No. 76,640; Feb. 8; Gaz. vol. 151; p. 445.
Horological instruments. Scherwin & Schlütter. No. 76,643; Feb. 8; Gaz. vol. 151; p. 445.
Horse and mule shoes. The Tredegar Company. No. 80,393; Dec. 13; Gaz. vol. 161; p. 526.
Horse blankets and clothing. Bemis Bro. Bag Co. No. 78,570; June 28; Gaz. vol. 155; p. 1037.
Horse equipments and lap-dusters. W. H. Eldred. No. 80,469; Dec. 27; Gaz. vol. 161; p. 1039.
Horse equipments and supplies, Certain. Norvell-Shapleigh Hardware Company. No. 78,200; May 31; Gaz. vol. 154; p. 1407.
Horse equipments and supplies, Certain. Norvell-Shapleigh Hardware Company. No. 78,202; May 31; Gaz. vol. 154; p. 1407.
Horse equipments, Certain. The North & Judd Manufacturing Company. No. 79,441; Sept. 6; Gaz. vol. 158; p. 224.
Horse fly nets and covers. Bemis Bro. Bag Co. No. 78,569; June 28; Gaz. vol. 155; p. 1037.
Horseshoe-calks. The Rowe Patent Calk Company. No. 78,207; May 31; Gaz. vol. 154; p. 1407.
Horseshoe-calks. The Rowe Patent Calk Company. No. 78,279; May 31; Gaz. vol. 154; p. 1409.

Alphabetical list of trade-marks—Continued.

Horseshoes. The Williams Drop Forging Co. Nos. 77,685–7; Apr. 26; Gaz. vol. 153; p. 1079.
Horseshoes and horseshoe-calks. Rhode Island Perkins Horseshoe Company. No. 79,299; Aug. 23; Gaz. vol. 157; p. 996.
Horsewhips. The Horsewhip Company. No. 79,979; Oct. 25; Gaz. vol. 159; p. 987.
Hose. New York Belting & Packing Company. No. 76,891; Feb. 22; Gaz. vol. 151; p. 1010.
Hose. New York Belting & Packing Company. No. 80,489; Dec. 27; Gaz. vol. 161; p. 1040.
Hose mender, Garden-. C. E. Hudson. Nos. 77,541–2; Apr. 19; Gaz. vol. 153; p. 818.
Hose, Steam-. The B. F. Goodrich Company. No. 77,894; May 17; Gaz. vol. 154; p. 831.
Hose-supporters. Royal Worcester Corset Co. No. 76,658; Feb. 8; Gaz. vol. 151; p. 445.
Hose-supporters. A. Stein & Company. No. 78,361; June 7; Gaz. vol. 155; p. 303.
Hose-supporters and garters. George Frost Company. No. 79,972; Oct. 25; Gaz. vol. 159; p. 987.
Hosiery. E. M. Townsend & Co. Nos. 76,316–17; Jan. 4; Gaz. vol. 150; p. 262
Hosiery. Halcyon Knitting Mills Co. No. 76,361; Jan. 11; Gaz. vol. 150; p. 565.
Hosiery. Hinman Knitting Company. No. 76,443; Jan. 18; Gaz. vol. 150; p. 821.
Hosiery. Old Fort Knitting Mills. No. 76,672; Feb. 8; Gaz. vol. 151; p. 446.
Hosiery. C. Chipmans Sons. Nos. 76,739–41; Feb. 15; Gaz. vol. 151; p. 725.
Hosiery. Triangle Hosiery Mills. No. 76,864; Feb. 22; Gaz. vol. 151; p. 1009.
Hosiery. Carson, Pirie, Scott & Co. No. 77,066; Mar. 8; Gaz. vol. 152; p. 483.
Hosiery. C. Chipman's Sons. Nos. 77,124–5; Mar. 15; Gaz. vol. 152; p. 727.
Hosiery. C. Chipman's Sons. No. 77,201; Mar. 22; Gaz. vol. 152; p. 953.
Hosiery. Glidden, Hyde & Co. No. 77,230; Mar. 22; Gaz. vol. 152; p. 954.
Hosiery. Ipswich Mills. Nos. 77,243–4; Mar. 22; Gaz. vol. 152; p. 954.
Hosiery. Marshall Field & Co. Nos. 77,252–7; Mar. 22; Gaz. vol. 152; p. 954.
Hosiery. C. Chipman's Sons. No. 77,296; Mar. 29; Gaz. vol. 152; p. 1219.
Hosiery. A. B. Andrews Company. No. 77,431; Apr. 12; Gaz. vol. 153; p. 541.
Hosiery. Gutman Bros. No. 77,645; Apr. 26; Gaz. vol. 153; p. 1078.
Hosiery. Kahn & Frank. No. 77,815; May 10; Gaz. vol. 154; p. 510.
Hosiery. B. S. Sharp. No. 77,836; May 10; Gaz. vol. 154; p. 510.
Hosiery. E. M. Townsend & Co. Nos. 77,849–50; May 10; Gaz. vol. 154; p. 511.
Hosiery. Jonesville Manufacturing Company. No. 77,923; May 17; Gaz. vol. 154; p. 832.
Hosiery. A. B. Andrews Company. No. 78,057; May 31; Gaz. vol. 154; p. 1403.
Hosiery. Harris-Lipsitz Company. No. 78,092; May 31; Gaz. vol. 154; p. 1404.
Hosiery. Miller & Sons Co. No. 78,432; June 14; Gaz. vol. 155; p. 550.
Hosiery. Richmond Hosiery Mills. No. 78,446; June 14; Gaz. vol. 155; p. 550.
Hosiery. Glidden, Hyde & Co. Nos. 78,508–9; June 21; Gaz. vol. 155; pp. 795–6.
Hosiery. Aetna Hosiery Company. No. 78,669; July 5; Gaz. vol. 156; p. 253.
Hosiery. T. E. Brown. No. 78,679; July 5; Gaz. vol. 156; p. 253.
Hosiery. Harris-Lipsitz Company. No. 78,797; July 12; Gaz. vol. 156; p. 534.
Hosiery. Neustadter Brothers. No. 78,814; July 12; Gaz. vol. 156; p. 534.
Hosiery. The A. H. and C. B. Alling Co. No. 78,853; July 19; Gaz. vol. 156; p. 793.
Hosiery. Regal Shoe Company. No. 78,907; July 19; Gaz. vol. 156; p. 794.
Hosiery. I. Cozzens. No. 79,106; Aug. 9; Gaz. vol. 157; p. 481.
Hosiery. Neustadter Brothers. No. 79,143; Aug. 9; Gaz. vol. 157; p. 482.
Hosiery. Marshall Field & Company. No. 79,481; Sept. 13; Gaz. vol. 158; p. 477.
Hosiery. Brown Durrell Co. No. 79,555; Sept. 20; Gaz. vol. 158; p. 697.
Hosiery. E. M. Townsend & Co. No. 79,614; Sept. 20; Gaz. vol. 158; p. 699.
Hosiery. Oneida Hosiery Company. No. 79,780; Oct. 4; Gaz. vol. 159; p. 238.
Hosiery. H. J. Clark. No. 79,820; Oct. 11; Gaz. vol. 159; p. 485.
Hosiery. W. Wesendonck. No. 80,096; Nov. 1; Gaz. vol. 160; p. 255.
Hosiery. Gehrke Knitting Mills. No. 80,180; Nov. 15; Gaz. vol. 160; p. 769.
Hosiery. Klusewitz Bros. No. 80,226; Nov. 22; Gaz. vol. 160; p. 1033.
Hosiery. Danville Knitting Mills. No. 80,464; Dec. 27; Gaz. vol. 161; p. 1039.
Hosiery, undershirts, drawers, and union suits. H. Wolf & Sons. No. 79,710; Sept. 27; Gaz. vol. 158; p. 881.
Hovers. Prairie State Incubator Company. No. 80,438; Dec. 20; Gaz. vol. 161; p. 750.
Hydrants and fire-plugs. Fairbanks Co. No. 77,458; Apr. 12; Gaz. vol. 153; p. 541.
Hydraulic machinery and fittings. Byron Jackson Iron Works. No. 78,183; May 31; Gaz. vol. 154; p. 1406.
Hydrocarbon generators and lamps and parts thereof. Padden Gas and Electric Co. No. 77,264; Mar. 22; Gaz. vol. 152; p. 955.
Hypodermic injections. L. Heister. No. 79,210; Aug. 16; Gaz. vol. 157; p. 749.
Hyposulfite of soda and sulfid of sodium. F. E. Atteaux & Co. No. 78,059; May 31; Gaz. vol. 154; p. 1403.
Ice. Knickerbocker Ice Company. No. 80,060; Nov. 1; Gaz. vol. 160; p. 254.
Ice-cream and ices. Terre Haute Pure Milk and Ice Cream Company. No. 79,708; Sept. 27; Gaz. vol. 158; p. 881.
Ice-cream, chocolates, and candies. Swetland & Son. No. 80,006; Oct. 25; Gaz. vol. 159; p. 988.
Ice-cream cones. Washington Cone Manufacturing Company. No. 78,288; May 31; Gaz. vol. 154; p. 1409.
Ice-cream cones. Anger Baking Company. No. 78,763; July 12; Gaz. vol. 156; p. 533.
Ice-cream freezers. Dana Manufacturing Company. No. 76,651; Feb. 8; Gaz. vol. 151; p. 445.
Ice-cream freezers. North Bro's M'f'g Co. No. 78,987; July 26; Gaz. vol. 156; p. 1062.
Ice-cream ladles. W. Ross. Nos. 79,370–1; Aug. 30; Gaz. vol. 157; p. 1240.
Incubators and brooders. T. J. Collier. No. 77,794; May 10; Gaz. vol. 154; p. 509.
Incubators, brooders, and portable poultry-houses. The Buckeye Incubator Company. No. 80,170; Nov. 15; Gaz. vol. 160; p. 769.
Infections, Means for preventing certain. K. A. Lingner. No. 77,323; Mar. 29; Gaz. vol. 152; p. 1220.
Inhaling instruments and apparatus. O. J. J. Witt. No. 77,146; Mar. 15; Gaz. vol. 152; p. 727.
Injectors. Randle Machinery Company. No. 79,006; July 26; Gaz. vol. 156; p. 1063.
Injectors, boiler-feeders, and jet-pumps. Randle Machinery Co. No. 78,904; July 19; Gaz. vol. 156; p. 794.
Ink reducer and drier combined, Printing-. E. M. Pratt. No. 78,023; May 24; Gaz. vol. 154; p. 1104.
Inks, Writing-. M. Brown. No. 78,581; June 28; Gaz. vol. 155; p. 1037.
Inner tubes, hose, and fruit-jar rubbers. Norvell-Shapleigh Hardware Company. No. 78,270; May 31; Gaz. vol. 154; p. 1409.
Insect-banding for fruit-trees. Strawsons & Company. No. 78,464; June 14; Gaz. vol. 155; p. 551.
Insect-destroyer, Poultry. W. J. Stuart. No. 78,465; June 14; Gaz. vol. 155; p. 551.
Insect-exterminating preparation. Orthop Chemical Company. No. 78,733; July 5; Gaz. vol. 156; p. 254.
Insect-exterminator. F. X. Lechner. No. 76,546; Jan. 25; Gaz. vol. 150; p. 1038.
Insecticide. Agraria, Fabrik landw. Artikel Ernst Rust. No. 76,706; Feb. 8; Gaz. vol. 151; p. 447.
Insecticide. C. Fremd. No. 76,913; Feb. 22; Gaz. vol. 151; p. 1010.
Insecticide. C. F. Hoofer. No. 77,540; Apr. 19; Gaz. vol. 153; p. 818.
Insecticides. E. R. Jennings. No. 77,814; May 10; Gaz. vol. 154; p. 510.
Insecticides. T. M. Bryan. No. 79,891; Oct. 18; Gaz. vol. 159; p. 743.
Insulated electric conductors and cables. F. M. Ferrin. No. 77,022; Mar. 1; Gaz. vol. 152; p. 227.
Insulating compositions and materials, Electrical. Standard Chemical Company. No. 79,868; Oct. 11; Gaz. vol. 159; p. 486.
Insulating material, Heat-. Union Fibre Company. No. 79,869; Oct. 11; Gaz. vol. 159; p. 486.
Insulating materials, Electric. The Dean Electric Company. No. 78,498; June 21; Gaz. vol. 155; p. 795.
Interlining. Printz. Biederman Co. No. 79,694; Sept. 27; Gaz. vol. 158; p. 880.
Iron and steel. A. Coates & Co. No. 77,707; May 3; Gaz. vol. 154; p. 247.
Iron and steel blooms, billets, bars, and sheets. Joseph Sankey & Sons. No. 80,086; Nov. 1; Gaz. vol. 160; p. 255.
Iron-enamel. Black Silk Stove Polish Works. No. 80,104; Nov. 8; Gaz. vol. 160; p. 489.
Jams, jellies, marmalades, and mince-meat. Sunlit Fruit Company. No. 78,466; June 14; Gaz. vol. 155; p. 551.
Jar lifters, Fruit-. N. M. Gorman. No. 78,875; July 19; Gaz. vol. 156; p. 793.
Jewelry. Standard Button Company. No. 77,676; Apr. 26; Gaz. vol. 153; p. 1079.
Jewelry. Allison Manufacturing Company. No. 78,295; June 7; Gaz. vol. 155; p. 301.
Jewelry. George N. Steere Company. No. 79,166; Aug. 9; Gaz. vol. 157; p. 483.
Jewelry. R. F. Simmons Company. No. 79,795; Oct. 4; Gaz. vol. 159; p. 239.

Alphabetical list of trade-marks—Continued.

Jewelry, Certain. The D. L. Auld Company. No. 76,786; Feb. 15; Gaz. vol. 151; p. 726.
Jewelry, Certain. E. I. Franklin & Co. Nos. 77,530–1; Apr. 19; Gaz. vol. 153; p. 817.
Jewelry, Certain. Waite, Thresher Company. No. 80,011; Oct. 25; Gaz. vol. 159; p. 988.
Jewelry for personal wear, Gold and silver. J. A. & S. W. Granbery. No. 80,473; Dec. 27; Gaz. vol. 161; p. 1039.
Jewelry, hollow, flat, and table ware, &c. Baltimore Bargain House. No. 79,393; Sept. 6; Gaz. vol. 158; p. 223.
Jewelry, precious-metal solid or plated ware. F. T. Pearce Company. No. 78,818; July 12; Gaz. vol. 156; p. 534.
Journal, Monthly. J. H. Francis. No. 79,751; Oct. 4; Gaz. vol. 159; p. 238.
Journals, Trade. Huott Publishing Company. No. 78,714; July 5; Gaz. vol. 156; p. 254.
Jute bagging for baling cotton. The American Manufacturing Company. No. 79,952; Oct. 25; Gaz. vol. 159; p. 987.
Jute-board. National Metal Edge Box Company. No. 78,438; June 14; Gaz. vol. 155; p. 550.
Key-seating machines. Mitts & Merrill. No. 76,696; Feb. 8; Gaz. vol. 151; p. 446.
Kinematographic apparatus and films. C. Urban. No. 76,537; Jan. 25; Gaz. vol. 150; p. 1038.
Kinematographic films. Itala-Film. No. 77,091; Mar. 8; Gaz. vol. 152; p. 484.
Kinematographic films. Société Cinématographique Des Auteurs et Gens de lettres. No. 79,085; Aug. 2; Gaz. vol. 157; p. 204.
Kinetoscope-films. H. Kuhn. No. 77,002; Mar. 1; Gaz. vol. 152; p. 226.
Kinetoscopic films. Lubin Manufacturing Company. No. 76,367; Jan. 11; Gaz. vol. 150; p. 565.
Knit garments, Certain. Minneapolis Knitting Works. No. 78,434; June 14; Gaz. vol. 155; p. 550.
Knit scarfs and mufflers. N. J. Rich & Co. Nos. 79,601–2; Sept. 20; Gaz. vol. 158; p. 698.
Knit shirts and drawers. Tiffany Brothers. No. 77,848; May 10; Gaz. vol. 154; p. 511.
Knit underwear. Ely & Walker Dry Goods Co. No. 76,743; Feb. 15; Gaz. vol. 151; p. 725.
Knit underwear and hosiery. L. Sinsheimer. No. 79,234; Aug. 16; Gaz. vol. 157; p. 750.
Knitted articles. E. Fischer. No. 76,969; Mar. 1; Gaz. vol. 152; p. 225.
Knitted athletic goods. E. Klein & Company. No. 78,102; May 31; Gaz. vol. 154; p. 1404.
Knitted goods. S. D. Stretton & Sons. No. 79,879; Oct. 11; Gaz. vol. 159; p. 487.
Knitted undergarments, hosiery, jerseys, and sweaters. J. J. Cook. No. 76,434; Jan. 18; Gaz. vol. 150; p. 821.
Knitted undershirts, drawers, and union suits. The Piqua Hosiery Company. No. 79,690; Sept. 27; Gaz. vol. 158; p. 880.
Knitted underwear. Wm. Moore Knitting Co. No. 76,410; Jan. 11; Gaz. vol. 150; p. 566.
Knitted underwear and hosiery. W. R. Lett. No. 76,366; Jan. 11; Gaz. vol. 150; p. 565.
Knives, forks, and spoons of precious-metal and plated ware. Royal Silver Mfg. Co. No. 76,573; Feb. 1; Gaz. vol. 151; p. 189.
Knives, forks, and spoons, Plated. Hampton Roads Cutlery Corporation. No. 79,278; Aug. 23; Gaz. vol. 157; p. 996.
Knives, scissors, and shears. Empire Knife Company. Nos. 77,865–6; May 10; Gaz. vol. 154; p. 511.
Kümmel. O. G. von Blanckenhagen. No. 80,029; Nov. 1; Gaz. vol. 160; p. 253.
Labels. Smith's Phonograph Co. No. 77,579; Apr. 19; Gaz. vol. 153; p. 819.
Labels and covers for fruit, jelly, and jam receptacles, Combined. The J. J. Paper Co. No. 78,716; July 5; Gaz. vol. 156; p. 254.
Labels, Luggage-. E. Henderson. No. 77,237; Mar. 22; Gaz. vol. 152; p. 954.
Laboratory apparatus, Certain. Arthur H. Thomas Company. No. 76,389; Jan. 11; Gaz. vol. 150; p. 566.
Laces. Sherman & Sons Co. No. 78,357; June 7; Gaz. vol. 155; p. 302.
Laces, eyelets, and closure-fastenings, Shoe. Thompson Ehlers Co. No. 80,499; Dec. 27; Gaz. vol. 161; p. 1040.
Laces, Shoe-. The Narrow Fabric Co. No. 77,943; May 17; Gaz. vol. 154; p. 832.
Lactic-acid-bacilli tablets. Allen & Hanburys. No. 77,784; May 10; Gaz. vol. 154; p. 509.
Ladders, Step-. The Security Ladder Company. No. 80,382; Dec. 13; Gaz. vol. 161; p. 526.
Lamp-chimneys, Miners' glass. W. Limberg & Co. No. 78,530; June 21; Gaz. vol. 155; p. 796.
Lamp sockets and receptacles, Electric-. Pass & Seymour. No. 77,029; Mar. 1; Gaz. vol. 152; p. 227.
Lamp-wicking, Cotton. R. Bishop, trustee. No. 78,572; June 28; Gaz. vol. 155; p. 1037.
Lamp-wicking, Cotton. R. Bishop. No. 80,206; Nov. 22; Gaz. vol. 160; p. 1033.
Lamps and burners therefor, Oil-. American Belgian Lamp Co. No. 77,434; Apr. 12; Gaz. vol. 153; p. 541.
Lamps and parts, gas-burners, and incandescent mantles, Vapor-. King Light Co. No. 79,427; Sept. 6; Gaz. vol. 158; p. 224.
Lamps and supplies therefor, Electric-arc. Stilwell Van Demark Co. No. 77,580; Apr. 19; Gaz. vol. 153; p. 819.
Lamps, Arc-. Economy Electric Company. Nos. 79,042–3; Aug. 2; Gaz. vol. 157; p. 203.
Lamps, Arc and incandescent electric. Carbone-Licht-Gesellschaft mit beschränkter Haftung. No. 76,649; Feb. 8; Gaz. vol. 151; p. 445.
Lamps, Electric. General Electric Company. No. 77,779; May 3; Gaz. vol. 154; p. 249.
Lamps, Electric. General Electric Company. No. 78,600; June 28; Gaz. vol. 155; p. 1038.
Lanterns. Norvell-Shapleigh Hardware Company. No. 79,779; Oct. 4; Gaz. vol. 159; p. 238.
Lard. American Lard Company. No. 76,678; Feb. 8; Gaz. vol. 151; p. 446.
Lard. F. Schenk & Sons Co. No. 77,303; Mar. 29; Gaz. vol. 152; p. 1219.
Lard. Springfield Provision Co. No. 80,326; Dec. 6; Gaz. vol. 161; p. 263.
Lard, sugar-cured meats, and cotton-seed oil. Columbia Cotton Oil & Provision Corporation. Nos. 80,412–13; Dec. 20; Gaz. vol. 161; p. 749.
Laundry appliances, Certain. Norvell-Shapleigh Hardware Company. No. 78,344; June 7; Gaz. vol. 155; p. 302.
Laxative tablets. M. L. Havey. No. 78,798; July 12; Gaz. vol. 156; p. 534.
Laxatives and purgatives. The Zymole Company. No. 79,712; Sept. 27; Gaz. vol. 158; p. 881.
Lead, Arsenate of. Merrimac Chemical Co. No. 76,478; Jan. 18; Gaz. vol. 150; p. 822.
Lead, White. The Warren Paint Co. No. 77,361; Mar. 29; Gaz. vol. 152; p. 1221.
Lead, White. Eclipse White Lead and Color Company. No. 78,406; June 14; Gaz. vol. 155; p. 549.
Leather. United States Tanned Pig Skin Co. No. 77,275; Mar. 22; Gaz. vol. 152; p. 955.
Leather and rubber goods, Preservative compositions for. Leather and Rubber Vitalizing Co. No. 79,630; Sept. 20; Gaz. vol. 158; p. 699.
Leather and shoe polish. Lone Star Blacking & Mfg. Co. No. 76,832; Feb. 15; Gaz. vol. 151; p. 727.
Leather and shoe polish. Lone Star Blacking & Mfg. Co. No. 77,121; Mar. 8; Gaz. vol. 152; p. 485.
Leather, Artificial sole-. W. H. McElwain Company. No. 78,385; June 7; Gaz. vol. 155; p. 303.
Leather, Chrome sole-. Gutmann & Company. No. 79,208; Aug. 16; Gaz. vol. 157; p. 749.
Leather-dressing. F. R. Bradbury. No. 79,406; Sept. 6; Gaz. vol. 158; p. 223.
Leather-dressing. F. R. Bradbury. No. 79,812; Oct. 11; Gaz. vol. 159; p. 485.
Leather for boots and shoes. Graton & Knight Mfg. Co. No. 76,621; Feb. 1; Gaz. vol. 151; p. 190.
Leather for boots and shoes. Graton & Knight Mfg. Co. No. 77,918; May 17; Gaz. vol. 154; p. 831.
Leather, Shoe-. Herman Zöhrlaut Leather Co. No. 76,396; Jan. 11; Gaz. vol. 150; p. 566.
Leather, Sole-. Carl J. Niemann & Bros. No. 78,198; May 31; Gaz. vol. 154; p. 1407.
Leather, Sole-. Tanners Cut Sole Company. No. 78,285; May 31; Gaz. vol. 154; p. 1409.
Leather, Tanned lace-. W. C. Hendrie Rubber Company. No. 79,053; Aug. 2; Gaz. vol. 157; p. 203.
Leathers, Carriage, automobile, upholstering, &c. The Kentucky Hide & Leather Company. No. 77,547; Apr. 19; Gaz. vol. 153; p. 818.
Leathers, Side. S. B. Foot & Co. No. 78,504; June 21; Gaz. vol. 155; p. 795.
Lecithin preparation. C. A. Fischer. No. 76,968; Mar. 1; Gaz. vol. 152; p. 225.
Ledgers, transfer-binders, and sheet-holders. Lamson Paragon Supply Company. No. 77,471; Apr. 12; Gaz. vol. 153; p. 542.
Lemonades, Fruit. Franz Hartmann Sinalco Aktiengesellschaft. No. 78,603; June 28; Gaz. vol. 155; p. 1038.
Lenses. E. Kirstein Sons Company. No. 80,282; Nov. 29; Gaz. vol. 160; p. 1267.
Lenses and plate-glass clear, Compounds for keeping. F. Davidson. No. 78,692; July 5; Gaz. vol. 156; p. 253.
Lenses, Optical. Globe Optical Company. No. 76,996; Mar. 1; Gaz. vol. 152; p. 226.
Letter-head and container for advertising-cuts, Combined. Dando Printing & Publishing Company. No. 77,863; May 10; Gaz. vol. 154; p. 511.
Lightning-arresters. Sumter Telephone Manufacturing Co. No. 76,574; Feb. 1; Gaz. vol. 151; p. 189.
Lightning-rods. Moore Bros. Lightning Rod Co. No. 78,725; July 5; Gaz. vol. 156; p. 254.
Lime. The Ohio & Western Lime Co. No. 79,928; Oct. 18; Gaz. vol. 159; p. 744.
Lime and cement. Ash Grove Lime and Portland Cement Company. No. 78,926; July 26; Gaz. vol. 156; p. 1061.
Lime and plaster. The Kelley Island Lime & Transport Company. No. 79,840; Oct. 11; Gaz. vol. 159; p. 486.
Lime, Hydrated. Dittlinger Lime Company. No. 76,582; Feb. 1; Gaz. vol. 151; p. 189.
Linemen's wire-grips. C. A. Svensson. No. 79,170; Aug. 9; Gaz. vol. 157; p. 483.

Alphabetical list of trade-marks—Continued.

Linen and cotton piece goods. Turner, Halsey Co. No. 78,142; May 31; Gaz. vol. 154; p. 1405.
Linen and hemp piece goods. John Wilsons' Successors. No. 79,455; Sept. 6; Gaz. vol. 158; p. 225.
Linen and wool piece goods. E. Leurent. Nos. 80,228–30; Nov. 22; Gaz. vol. 160; p. 1033.
Linen damasks, napkins, and table-cloths. Ben Strauss Company. No. 77,612; Apr. 26; Gaz. vol. 153; p. 1077.
Linen, silk and cotton, and silk dress goods. L. Hess & Co. No. 79,833; Oct. 11; Gaz. vol. 159; p. 485.
Liniment. L. Hiner. No. 76,475; Jan. 18; Gaz. vol. 150; p. 822.
Liniment. Max Morris Drug Company. No. 76,721; Feb. 8; Gaz. vol. 151; p. 447.
Liniment. Ziegler & Liebendorfer. No. 76,845; Feb. 15; Gaz. vol. 151; p. 728.
Liniment. C. Clarke. No. 77,706; May 3; Gaz. vol. 154; p. 247.
Liniment. Mr. and Mrs. J. Kuehnel. No. 78,612; June 28; Gaz. vol. 155; p. 1038.
Liniment. The James W. Foster Company. No. 78,787; July 12; Gaz. vol. 156; p. 533.
Liniment. F. E. Horton. No. 79,910; Oct. 18; Gaz. vol. 159; p. 743.
Liniment. R. Cortés. No. 80,175; Nov. 15; Gaz. vol. 160; p. 769.
Liniment and cough-syrup. C. C. Slothower. No. 79,373; Aug. 30; Gaz. vol. 157; p. 1240.
Liniments. Lanman & Kemp. No. 77,817; May 10; Gaz. vol. 154; p. 510.
Liniments. Lanman & Kemp. No. 78,107; May 31; Gaz. vol. 154; p. 1404.
Liniments, stock-powders, &c. R. A. Green. No. 77,314; Mar. 29; Gaz. vol. 152; p. 1220.
Linoleum. Bremer Linoleumwerke Delmenhorst. No. 77,790; May 10; Gaz. vol. 154; p. 509.
Linoleum and oiled cloth. M. Goldenberg. No. 77,998; May 24; Gaz. vol. 154; p. 1103.
Liquid cleaning and polishing compound. Standard Specialties Company. No. 77,340; Mar. 29; Gaz. vol. 152; p. 1220.
Lithographic prints. Meissner & Buch. No. 80,484; Dec. 27; Gaz. vol. 161; p. 1040.
Lockets. Bliss Brothers Company. No. 79,811; Oct. 11; Gaz. vol. 159; p. 485.
Lockets and bracelets. Attleboro Chain Company. No. 76,957; Mar. 1; Gaz. vol. 152; p. 225.
Locks and bolts. Norvell-Shapleigh Hardware Company. No. 77,750; May 3; Gaz. vol. 154; p. 248.
Locks, catches, and fasteners. Russell & Erwin Manufacturing Company. No. 78,644; June 28; Gaz. vol. 155; p. 1039.
Logs and lumber. Schut & Kiehn. No. 78,739; July 5; Gaz. vol. 156; p. 255.
Long-cloth. Sherman & Sons Co. No. 77,838; May 10; Gaz. vol. 154; p. 510.
Lotion. Murray Chemical Co. No. 76,818; Feb. 15; Gaz. vol. 151; p. 727.
Lotion and face-cream. Pope & Wilson. No. 76,723; Feb. 8; Gaz. vol. 151; p. 447.
Lotion for the head and face. The Bonheur Company. No. 77,974; May 17; Gaz. vol. 154; p. 833.
Lotion, Mosquito-repelling. United Drug Company. No. 76,927; Feb. 22; Gaz. vol. 151; p. 1011.
Lotion, Skin-. J. M. Hutchison. No. 79,128; Aug. 9; Gaz. vol. 157; p. 482.
Lotions. M. Johnson. No. 78,100; May 31; Gaz. vol. 154; p. 1404.
Lotions. E. H. Lynn, Sr. No. 79,774; Oct. 4; Gaz. vol. 159; p. 238.
Lotions and hair-dressings, Scalp and foot. P. C. Gill. No. 79,570; Sept. 20; Gaz. vol. 158; p. 697.
Lotions for the face, hands, and skin. F. L. Greer. No. 78,964; July 26; Gaz. vol. 156; p. 1062.
Lubricants. Emery Pneumatic Lubricator Co. No. 76,504; Jan. 25; Gaz. vol. 150; p. 1037.
Lubricants. International Acheson Graphite Company. No. 78,519; June 21; Gaz. vol. 155; p. 796.
Lubricants. International Acheson Graphite Co. No. 79,915; Oct. 18; Gaz. vol. 159; p. 744.
Lubricating appliances for machinery. A. Bowser. No. 79,645; Sept. 27; Gaz. vol. 158; p. 879.
Lumber and logs. Fee-Crayton Hardwood Lumber Company. No. 77,228; Mar. 22; Gaz. vol. 152; p. 954.
Lumber and logs. Fee-Crayton Hardwood Lumber Company. No. 77,389; Apr. 5; Gaz. vol. 153; p. 267.
Lumber, logs, veneer, shingles, and laths. Hoffman Brothers Company. No. 80,316; Dec. 6; Gaz. vol. 161; p. 263.
Lumber-preserving solution. American Lumber Preserving Co. No. 78,762; July 12; Gaz. vol. 156; p. 533.
Macaroni. Birmingham Macaroni Company. No. 76,878; Feb. 22; Gaz. vol. 151; p. 1010.
Macaroni. The Pfaffmann Egg Noodle Co. No. 78,348; June 7; Gaz. vol. 155; p. 302.
Macaroni paste foods. Birmingham Macaroni Company. No. 77,699; May 3; Gaz. vol. 154; p. 247.
Macaroni paste foods. The Cleveland Macaroni Company. No. 79,650; Sept. 27; Gaz. vol. 158; p. 879.
Macaroni, spaghetti, and vermicelli. C. R. Splivalo & Co. No. 76,989; Mar. 1; Gaz. vol. 152; p. 226.
Macaronic paste foods. The Cleveland Macaroni Company. No. 79,821; Oct. 11; Gaz. vol. 159; p. 485.
Machetes. R. Martindale & Company. No. 76,344; Jan. 4; Gaz. vol. 150; p. 263.
Machine-tools. Henry Rossell & Co. No. 77,730; May 3; Gaz. vol. 154; p. 248.
Machine-tools, Certain. John Bedford & Sons. No. 76,886; Feb. 22; Gaz. vol. 151; p. 1010.
Machines, Certain. Heaton-Peninsular Button Fastener Co. Nos. 76,997–8; Mar. 1; Gaz. vol. 152; p. 226.
Machinery and parts thereof, Certain. Flint and Walling Mfg. Co. No. 79,827; Oct. 11; Gaz. vol. 159; p. 485.
Machinery and parts thereof, Certain. The Fisher Governor Company. No. 80,117; Nov. 8; Gaz. vol. 160; p. 489.
Machinery, Certain. Fried. Krupp, Aktiengesellschaft, Grusonwerk. No. 77,229; Mar. 22; Gaz. vol. 152; p. 954.
Machinery, Certain. Pratt Engineering & Machinery Co. No. 78,350; June 7; Gaz. vol. 155; p. 302.
Machinery, Certain. Fort Wayne Engineering & Manufacturing Company. No. 78,786; July 12; Gaz. vol. 156; p. 533.
Machinery, Certain. William B. Hough Company. No. 79,212; Aug. 16; Gaz. vol. 157; p. 750.
Machinery, Certain. American Road Machine Company. No. 79,545; Sept. 20; Gaz. vol. 158; p. 697.
Magazine. L. M. Hodges. No. 77,148; Mar. 15; Gaz. vol. 152; p. 727.
Magazine. McGraw Publishing Co. No. 77,662; Apr. 26; Gaz. vol. 153; p. 1078.
Magazine. A. J. Duran. No. 79,658; Sept. 27; Gaz. vol. 158; p. 879.
Magazine, Monthly. Business Man's Publishing Co. No. 76,430; Jan. 18; Gaz. vol. 150; p. 821.
Magazine, Monthly. R. S. Kennedy. No. 76,612; Feb. 1; Gaz. vol. 151; p. 190.
Magazine, Monthly. H. B. Meyers. 76,861; Feb. 22; Gaz. vol. 151; p. 1009.
Magazine, Monthly. American News Company. No. 76,956; Mar. 1; Gaz. vol. 152; p. 225.
Magazine, Monthly. J. H. Francis. No. 78,238; May 31; Gaz. vol. 154; p. 1408.
Magazine, Monthly. E. Walter. No. 78,287; May 31; Gaz. vol. 154; p. 1409.
Magazine, Monthly. H. Gernsback. No. 78,507; June 21; Gaz. vol. 155; p. 795.
Magazine, Monthly. Lawson Publishing Company. No. 79,131; Aug. 9; Gaz. vol. 157; p. 482.
Magazine, Monthly. Philadelphia Suburban Publishing Co. No. 79,932; Oct. 18; Gaz. vol. 159; p. 744.
Magazine, Monthly. National Manufacturers Company. No. 80,193; Nov. 15; Gaz. vol. 160; p. 769.
Magazine, Weekly. New York Evening Post Company. No. 80,144; Nov. 8; Gaz. vol. 160; p. 490.
Magazines, Bimonthly. R. G. Badger. No. 78,674; July 5; Gaz. vol. 156; p. 253.
Magazines, Monthly. C. A. Bacon. No. 77,698; May 3; Gaz. vol. 154; p. 247.
Magazines, Monthly. Good Health Publishing Co. No. 77,916; May 17; Gaz. vol. 154; p. 831.
Magazines, Monthly. W. S. Dinsmore. No. 78,234; May 31; Gaz. vol. 154; p. 1408.
Magazines, Monthly. The Current Literature Publishing Company. No. 78,591; June 28; Gaz. vol. 155; p. 1037.
Magazines, Monthly. The Epitomist Publishing Co. No. 79,200; Aug. 16; Gaz. vol. 157; p. 749.
Magazines, Monthly. F. Marriott. No. 79,221; Aug. 16; Gaz. vol. 157; p. 750.
Magazines, Monthly. T. Lowe. No. 79,348; Aug. 30; Gaz. vol. 157; p. 1240.
Magazines, Monthly. E. Towne. No. 80,008; Oct. 25; Gaz. vol. 159; p. 988.
Magazines, Monthly. Adam Budge. No. 80,343; Dec. 13; Gaz. vol. 161; p. 525.
Magazines, Semimonthly. Equity Publishing Company. No. 76,506; Jan. 25; Gaz. vol. 150; p. 1037.
Magazines, Serial. The Phelps Publishing Company. No. 77,055; Mar. 8; Gaz. vol. 152; p. 483.
Magazines, Weekly. T. Dean. No. 79,653; Sept. 27; Gaz. vol. 158; p. 879.
Magneto-electrical machines. Hess-Bright Manufacturing Company. No. 77,649; Apr. 26; Gaz. vol. 153; p. 1078.
Magnetos. Unterberg & Helmle. No. 77,970; May 17; Gaz. vol. 154; p. 833.
Magnetos. Unterberg & Helmle. No. 79,088; Aug. 2; Gaz. vol. 157; p. 204.
Mainsprings. Hammel, Riglander & Co. No. 79,907; Oct. 18; Gaz. vol. 159; p. 743.
Malines. L. & E. Stirn. No. 76,534; Jan. 25; Gaz. vol. 150; p. 1038.
Malt and hops, Preparation containing. Pabst Brewing Company. No. 79,929; Oct. 18; Gaz. vol. 159; p. 744.
Malt extract. Leisy Brewing Company. No. 79,771; Oct. 4; Gaz. vol. 159; p. 238.
Malt extract. Ed. Loefund & Co. No. 80,070; Nov. 1; Gaz. vol. 160; p. 254.
Malt extract with iron, &c., Preparation of. The Biomedic Company. No. 78,395; June 14; Gaz. vol. 155; p. 549.

Alphabetical list of trade-marks—Continued.

Malt extracts. Malt Diastase Co. No. 77,818; May 10; Gaz. vol. 154; p. 510.
Malt extracts. Malt-Diastase Company. No. 79,352; Aug. 30; Gaz. vol. 157; p. 1240.
Malted milk. Borden's Condensed Milk Company. No. 77,084; Mar. 8; Gaz. vol. 152; p. 484.
Malted soda. J. Hoff. No. 76,399; Jan. 11; Gaz. vol. 150; p. 566.
Malted soda. Johann Hoff. No. 79,671; Sept. 27; Gaz. vol. 158; p. 880.
Mangoes, Sweet. Francis H. Leggett & Co. No. 79,991; Oct. 25; Gaz. vol. 159; p. 988.
Manhole-fittings. William Heiser and Sons Company. No. 77,776; May 3; Gaz. vol. 154; p. 249.
Manholes and hand-holes, Covers for. R. Munroe & Sons Mfg. Corporation. No. 79,850; Oct. 11; Gaz. vol. 159; p. 486.
Mantels, Wood. Knoxville Furniture Co. No. 79,130; Aug. 9; Gaz. vol. 157; p. 482.
Mantles and burners. "Britelite" Company. No. 80,459; Dec. 27; Gaz. vol. 161; p. 1039.
Mantles, Incandescent gas-. Block Light Company. No. 77,083; Mar. 8; Gaz. vol. 152; p. 484.
Manure-spreaders and parts thereof. Midland Manufacturing Company. No. 76,452; Jan. 18; Gaz. vol. 150; p. 821.
Manurial compounds. Rogers & Hubbard Co. No. 79,155; Aug. 9; Gaz. vol. 157; p. 482.
Marble and stone, Artificial. W. E. Wilson. No. 76,320; Jan. 4; Gaz. vol. 150; p. 262.
Marine and field glasses. Pinkham & Smith Company. No. 77,754; May 3; Gaz. vol. 154; p. 248.
Marking paste and fluids. Binney & Smith Company. No. 77,061; Mar. 8; Gaz. vol. 152; p. 483.
Masks for foot-ball players, Nose-. Wright & Ditson. No. 79,381; Aug. 30; Gaz. vol. 157; p. 1241.
Matches. Grantorpets Tändsticksfabriks Aktiebolag. No. 76,360; Jan. 11; Gaz. vol. 150; p. 565.
Matches. Acme Match Co. No. 77,281; Mar. 29; Gaz. vol. 152; p. 1219.
Matches. C. A. Broomall. No. 77,448; Apr. 12; Gaz. vol. 153; p. 541.
Matches. F. E. Kreuger. Nos. 77,926–7; May 17; Gaz. vol. 154; p. 832.
Matches. White, Wilson, Drew Company. No. 77,972; May 17; Gaz. vol. 154; p. 833.
Matches. The Gibson Canning Company. No. 78,791; July 12; Gaz. vol. 156; p. 534.
Matches. F. E. Kreuger. Nos. 78,886–7; July 19; Gaz. vol. 156; p. 794.
Matches. F. E. Kreuger. No. 79,428; Sept. 6; Gaz. vol. 158; p. 224.
Matches. F. E. Kreuger. Nos. 79,498–500; Sept. 13; Gaz. vol. 158; p. 478.
Matches. F. E. Kreuger. No. 79,588; Sept. 20; Gaz. vol. 158; p. 698.
Matches. F. E. Kreuger. Nos. 79,764–5; Oct. 4; Gaz. vol. 159; p. 238.
Matches. East Jersey Match Company. No. 79,824; Oct. 11; Gaz. vol. 159; p. 485.
Matches. The Independent Match Co. Nos. 79,835–6; Oct. 11; Gaz. vol. 159; pp. 485–6.
Matches. F. E. Kreuger. Nos. 79,985–6; Oct. 25; Gaz. vol. 159; p. 988.
Matches. F. E. Kreuger. Nos. 80,130–1; Nov. 8; Gaz. vol. 160; p. 490.
Matches. F. E. Kreuger. No. 80,364; Dec. 13; Gaz. vol. 161; p. 525.
Matches, Parlor-. Francis H. Leggett & Co. No. 80,067; Nov. 1; Gaz. vol. 160; p. 254.
Matches, Safety-. Aktieselskabet Bryn Tændstikfabrik. Nos. 80,297–8; Dec. 6; Gaz. vol. 161; p. 263.
Mattresses. U. S. Bedding Company. No. 77,410; Apr. 5; Gaz. vol. 153; p. 268.
Mattresses. U. S. Bedding Company. No. 79,238; Aug. 16; Gaz. vol. 157; p. 750.
Mattresses and bed-springs. M. A. Hunt and Co. Nos. 78,803–4; July 12; Gaz. vol. 156; p. 534.
Mattresses and bed-springs. M. A. Hunt and Co. No. 78,884; July 19; Gaz. vol. 156; p. 794.
Mattresses and cushions. G. W. Bent Co. No. 78,394; June 14; Gaz. vol. 155; p. 549.
Mattresses and pillows. Taylor Bedding Mfg. Co. No. 79,880; Oct. 11; Gaz. vol. 159; p. 487.
Mattresses, box-springs, and pillows. Dixie Cotton Felt Mattress Company. No. 80,307; Dec. 6; Gaz. vol. 161; p. 263.
Mattresses, pillows, and cushions. Penfield Manufacturing Company. No. 76,494; Jan. 18; Gaz. vol. 150; p. 823.
Mattresses, pillows, and cushions. Robinson-Roders Co. No. 78,640; June 28; Gaz. vol. 155; p. 1039.
Measuring and scientific instruments and machines. A. Molt. No. 80,435; Dec. 20; Gaz. vol. 161; p. 750.
Measuring-tapes and scale-beams. Norvell-Shapleigh Hardware Company. No. 78,269; May 31; Gaz. vol. 154; p. 1409.
Meat and vegetable extract. Standard Cube Bouillon Co. No. 77,842; May 10; Gaz. vol. 154; p. 510.
Meat-preservative. Figaro Chemical Co. No. 78,783; July 12; Gaz. vol. 156; p. 533.
Meats and lard, Sugar-cured. Columbia Cotton Oil and Provision Corporation. No. 77,795; May 10; Gaz. vol. 154; p. 509.
Meats, Cured and salted. Kingan and Company, Limited. No. 77,357; Mar. 29; Gaz. vol. 152; p. 1221.
Meats, Cured and salted. Schwarzschild & Sulzberger Company. No. 80,444; Dec. 20; Gaz. vol. 161; p. 750.
Meats, Cured and smoked. Kingan & Company. No. 77,548; Apr. 19; Gaz. vol. 153; p. 818.
Medicament for certain diseases. C. J. Dobrocinski. No. 76,280; Jan. 4; Gaz. vol. 150; p. 261.
Medicaments, Tablets and capsules of. Farbwerke vorm. Meister Lucius & Brüning. No. 78,598; June 28; Gaz. vol. 155; p. 1038.
Medicinal agents for the treatment of venereal diseases. C. H. Bryan. No. 79,100; Aug. 9; Gaz. vol. 157; p. 481.
Medicinal herb extracts and compounds thereof. F. Destefano. No. 79,041; Aug. 2; Gaz. vol. 157; p. 203.
Medicinal liquid, Nutritive. Palisade Manufacturing Co. No. 79,000; July 26; Gaz. vol. 156; p. 1063.
Medicinal lotion. F. Freund. No. 79,333; Aug. 30; Gaz. vol. 157; p. 1239.
Medicinal oil. A. W. O'Brian & Company. No. 80,288; Nov. 29; Gaz. vol. 160; p. 1267.
Medicinal pill. John Wyeth & Brother. No. 76,476; Jan. 18; Gaz. vol. 150; p. 822.
Medicinal plasters. Johnson & Johnson. No. 76,624; Feb. 1; Gaz. vol. 151; p. 190.
Medicinal plasters. M. Hogg. No. 78,178; May 31; Gaz. vol. 154; p. 1406.
Medicinal powder. E. E. Schoolcraft. No. 78,453; June 14; Gaz. vol. 155; p. 550.
Medicinal preparation. J. Fullerton. No. 76,282; Jan. 4; Gaz. vol. 150; p. 261.
Medicinal preparation. H. L. Weis. No. 76,827; Feb. 15; Gaz. vol. 151; p. 727.
Medicinal preparation. O. Kalmus. No. 77,924; May 17; Gaz. vol. 154; p. 832.
Medicinal preparation. K. A. Lingner. No. 78,617; June 28; Gaz. vol. 155; p. 1038.
Medicinal preparation and a cream. J. A. Baker. No. 79 184; Aug. 16; Gaz. vol. 157; p. 749.
Medicinal preparation containing albumen. Tropon Works. No. 80,009; Oct. 25; Gaz. vol. 159; p. 988.
Medicinal preparation for external use. Sapa Chemical Co. No. 77,768; May 3; Gaz. vol. 154; p. 249.
Medicinal preparation for the skin and scalp. H. D. Griswold. No. 78,173; May 31; Gaz. vol. 154; p. 1406.
Medicinal preparations. Bockar Drug Co. No. 77,099; Mar. 8; Gaz. vol. 152; p. 484.
Medicinal preparations. C. B. Longwell. No. 80,370; Dec. 13; Gaz. vol. 161; p. 526.
Medicinal preparations. Allcock Manufacturing Company. No. 80,454; Dec. 27; Gaz. vol. 161; p. 1039.
Medicinal preparations for the tobacco habit. E. C. Getsinger. No. 80,052; Nov. 1; Gaz. vol. 160; p. 254.
Medicinal remedy. I. A. Williams. No. 76,408; Jan. 11; Gaz. vol. 150; p. 566.
Medicinal suppositories, &c. The Home Treatment Remedy Co. No. 79,493; Sept. 13; Gaz. vol. 158; p. 478.
Medicinal tablets. G. Bechtold. No. 76,269; Jan. 4; Gaz. vol. 150; p. 261.
Medicinal tablets. F. E. Russell. No. 78,132; May 31; Gaz. vol 154; p. 1405.
Medicinal tablets for headache and fever. W. H. Bull Medicine Company. No. 79,188; Aug. 16; Gaz. vol. 157; p. 749.
Medicinal tonic. E. L. Andrews. No. 79,029; Aug. 2; Gaz. vol. 157; p. 203.
Medicinal tonic. Mezcal Tequila Distillery Company. No. 80,190; Nov. 15; Gaz. vol. 160; p. 769.
Medicinal tonic. The Hoffmann-La Roche Chemical Works. No. 80,361; Dec. 13; Gaz. vol. 161; p. 525.
Medicinal wine. J. E. Heroux. No. 79,756; Oct. 4; Gaz. vol. 159; p. 238.
Medicine. New York Pharmacal Association. No. 78,986; July 26; Gaz. vol. 156; p. 1062.
Medicine. C. E. Biel. No. 79,247; Aug. 23; Gaz. vol. 157; p. 995.
Medicine. New York Chemical Company. No. 79,296; Aug. 23; Gaz. vol. 157; p. 996.
Medicine. P. Famel. No. 79,568; Sept. 20; Gaz. vol. 158; p. 697.
Medicine and salves. J. W. Lester. No. 77,928; May 17; Gaz. vol. 154; p. 832.
Medicine, Antiseptic and germicidal. Palisade Manufacturing Co. No. 79,001; July 26; Gaz. vol. 156; p. 1063.
Medicine, Eye. P. Tokar. No. 78,746; July 5; Gaz. vol. 156; p. 255.
Medicine for certain diseases. J. H. Zeilin & Company. No. 79,457; Sept. 6; Gaz. vol. 158; p. 225.
Medicine for certain diseases. M. Goodman. No. 80,223; Nov. 22; Gaz. vol. 160; p. 1033.
Medicine for chills, malaria, &c. Diffusible Tonic Co. No. 78,593; June 28; Gaz. vol. 155; p. 1037.
Medicine, Laxative. D. C. Dunn. No. 77,522; Apr. 19; Gaz. vol. 153; p. 817.
Medicine, Tocological. Tropical Pharmacal Company. No. 80,500; Dec. 27; Gaz. vol. 161; p. 1040.

Alphabetical list of trade-marks—Continued.

Medicines. E. S. Sloan. No. 76,554; Jan. 25; Gaz. vol. 150; p. 1038.
Medicines. Foster-McClellan Co. No. 78,080; May 31; Gaz. vol. 154; p. 1403.
Medicines. F. Kripke. No. 78,104; May 31; Gaz. vol. 154; p. 1404.
Medicines. Baker Manufacturing Co. No. 78,482; June 21; Gaz. vol. 155; p. 795.
Medicines. Stock & Krause. No. 78,548; June 21; Gaz. vol. 155; p. 797.
Medicines. C. J. Mount. No. 79,074; Aug. 2; Gaz. vol. 157; p. 204.
Medicines. C. J. Mount. No. 79,139; Aug. 9; Gaz. vol. 157; p. 482.
Medicines. The Father Morrisey Medicine Company. No. 79,201; Aug. 16; Gaz. vol. 157; p. 749.
Medicines and pharmaceutical preparations. Actien-Gesellschaft für Anilin-Fabrikation. No. 78,758; July 12; Gaz. vol. 156; p. 533.
Medicines and toilet preparations. Mrs. Nettie Harrison Co. No. 76,975; Mar. 1; Gaz. vol. 152; p. 225.
Medicines and toilet preparations. Mexican Amole Soap Co. No. 78,016; May 24; Gaz. vol. 154; p. 1104.
Medicines and toilet preparations. Vertriebs-Gesellschaft Prof. Dr. Schleich'scher Präparate G. m. b. H. No. 78,030; May 24; Gaz. vol. 154; p. 1104.
Medicines and toilet preparations. M. Goldenberg. No. 78,087; May 31; Gaz. vol. 154; p. 1404.
Medicines for piles. J. P. Holliway. No. 79,580; Sept. 20; Gaz. vol. 158; p. 698.
Medicines for rheumatism. M. Fadeuilhe. No. 77,157; Mar. 15; Gaz. vol. 152; p. 728.
Medicines for suppositories. Theo. Noel Company. No. 80,078; Nov. 1; Gaz. vol. 160; p. 254.
Medicines for tuberculosis. A. S. Zajkowski. No. 79,948; Oct. 18; Gaz. vol. 159; p. 745.
Metal and glass polishing materials. C. D. Peacock, Incorporated. No. 76,322; Jan. 4; Gaz. vol. 150; p. 262.
Metal and shoe polishes and polishing-mittens. W. R. Hollingshead. No. 80,425; Dec. 20; Gaz. vol. 161; p. 749.
Metal and wood polishes and leather-dressings. The Atlantic Refining Co. No. 79,181; Aug. 16; Gaz. vol. 157; p. 749.
Metal, Antifriction bearing. Hoyt Metal Company. No. 78,802; July 12; Gaz. vol. 156; p. 534.
Metal articles, Certain. Dover Stamping and Manufacturing Company. No. 76,391; Jan. 11; Gaz. vol. 150; p. 566.
Metal articles, Certain. Star Expansion Bolt Company. No. 80,004; Oct. 25; Gaz. vol. 159; p. 988.
Metal articles, Certain precious-. S. M. Magid. No. 80,071; Nov. 1; Gaz. vol. 160; p. 254.
Metal bars or rods for reinforcing concrete. American Concrete-Steel Co. No. 78,854; July 19; Gaz. vol. 156; p. 793.
Metal brazing and welding compounds. Wassermann & Co. The Antiglissol Company Ld. Lausanne. No. 76,730; Feb. 8; Gaz. vol. 151; p. 447.
Metal castings and forgings. Edgar Allen & Co. No. 78,670; July 5; Gaz. vol. 156; p. 253.
Metal castings and forgings. William Jessop & Sons. No. 79,585; Sept. 20; Gaz. vol. 158; p. 698.
Metal corner-bars for concrete curbs. Steel Protected Concrete Company. No. 76,863; Feb. 22; Gaz. vol. 151; p. 1009.
Metal forgings. J. H. Williams & Co. No. 79,618; Sept. 20; Gaz. vol. 158; p. 699.
Metal forgings. J. H. Williams & Co. No. 80,202; Nov. 15; Gaz. vol. 160; p. 770.
Metal goods, Certain. The Turner Brass Works. Nos. 77,497–8; Apr. 12; Gaz. vol. 153; p. 543.
Metal plates, moldings, fillers, &c. Wheeling Corrugating Company. No. 79,454; Sept. 6; Gaz. vol. 158; p. 225.
Metal-polish. E. W. Bennett and Company. No. 76,907; Feb. 22; Gaz. vol. 151; p. 1010.
Metal-polish. A. J. Hart. No. 77,235; Mar. 22; Gaz. vol. 152; p. 954.
Metal-polish. S. Mason. No. 77,741; May 3; Gaz. vol. 154; p. 248.
Metal-polish. The Atlantic Refining Co. No. 79,180; Aug. 16; Gaz. vol. 157; p. 749.
Metal-polish. Hopewell Brothers. No. 79,674; Sept. 27; Gaz. vol. 158; p. 880.
Metal-polishes. Armiger Chemical Co. No. 78,856; July 19; Gaz. vol. 156; p. 793.
Metal-polishes. Pacific Plating Polish Co. No. 80,491; Dec. 27; Gaz. vol. 161; p. 1040.
Metal-polishing material. W. J. Ochs. No. 77,262; Mar. 22; Gaz. vol. 152; p. 955.
Metal-polishing powder. A. Rosenberg. No. 78,278; May 31; Gaz. vol. 154; p. 1409.
Metal-polishing preparation. F. P. Iannarone. No. 80,426; Dec. 20; Gaz. vol. 161; p. 749.
Metal-purifying composition. The Allyne Brass Foundry Company. No. 79,383; Sept. 6; Gaz. vol. 158; p. 223.
Metal switch and signal carrier-bases. W. K. Kenly Company. No. 80,058; Nov. 1; Gaz. vol. 160; p. 254.
Metal ware, Certain. The Toledo Cooker Co. No. 78,747; July 5; Gaz. vol. 156; p. 255.
Metal ware, Certain. Dickelman Mfg. Co. No. 79,109; Aug. 9; Gaz. vol. 157; p. 481.
Metal ware, Certain precious-. J. L. Herzog & Company. No. 79,054; Aug. 2; Gaz. vol. 157; p. 203.
Metals and metal articles, Certain. Henry Rossell & Co. No. 77,729; May 3; Gaz. vol. 154; p. 248.
Metals, Antifriction. Pittsburg White Metal Company. No. 77,006; Mar. 1; Gaz. vol. 152; p. 226.
Metals, Various. T. Goldschmidt. No. 79,336; Aug. 30; Gaz. vol. 157; p. 1239.
Methyl alcohol. Wood Products Co. No. 77,777; May 3; Gaz. vol. 154; p. 249.
Milk and cream. G. C. Street. No. 76,632; Feb. 1; Gaz. vol. 151; p. 191.
Milk and evaporated cream, Condensed and evaporated. Borden's Condensed Milk Company. No. 76,929; Feb. 22; Gaz. vol. 151; p. 1011.
Milk and honey and white rolled oats, Condensed. Francis H. Leggett & Co. No. 80,134; Nov. 8; Gaz. vol. 160; p. 490.
Milk, Condensed. Boston Dairy Company. No. 77,609; Apr. 26; Gaz. vol. 153; p. 1077.
Milk, Condensed. Borden's Condensed Milk Company. No. 78,578; June 28; Gaz. vol. 155; p. 1037.
Milk, Condensed. Boston Dairy Co. No. 78,579; June 28; Gaz. vol. 155; p. 1037.
Milk, Condensed. Scio Condensed Milk Co. No. 79,158; Aug. 9; Gaz. vol. 157; p. 482.
Milk, Condensed. Western Condensed Milk Co. No. 79,178; Aug. 9; Gaz. vol. 157; p. 483.
Milk, Condensed. Willamette Valley Condensed Milk Company. No. 79,804; Oct. 4; Gaz. vol. 159; p. 239.
Milk, Desiccated. The Dry Milk Company. No. 79,195; Aug. 16; Gaz. vol. 157; p. 749.
Milk, Evaporated. Oostburg Evaporated Milk Co. No. 76,697; Feb. 8; Gaz. vol. 151; p. 446.
Milk, Evaporated. Seminole Condensed Milk Co. No. 79,458; Sept. 6; Gaz. vol. 158; p. 225.
Milk-modifier. A. M. Alberty. No. 79,950; Oct. 25; Gaz. vol. 159; p. 987.
Milk or milk powder, Desiccated. The Dry Milk Company. Nos. 76,583–4; Feb. 1; Gaz. vol. 151; p. 189.
Milk-receptacles, Certain. P. R. Ziegler. No. 77,350; Mar. 29; Gaz. vol. 152; p. 1221.
Milk, Sterilized. P. A. M. Cramer. No. 80,463; Dec. 27; Gaz. vol. 161; p. 1039.
Millinery-trimmings. Veit, Son & Co. No. 78,843; July 12; Gaz. vol. 156; p. 535.
Milling machinery and parts thereof, Flour-. Montpelier Cup & Metal Works. No. 79,922; Oct. 18; Gaz. vol. 159; p. 744.
Mineral water, Natural. Buffalo Lithia Springs Water Co. No. 80,460; Dec. 27; Gaz. vol. 161; p. 1039.
Mining-machines, Electric. Hirst-Butler Electrical Machine Co. No. 76,514; Jan. 25; Gaz. vol. 150; p. 1037.
Mint-julep. The Loewenthal-Strauss Company. No. 77,472; Apr. 12; Gaz. vol. 153; p. 542.
Mirrors, Head, throat, and dental. Bausch & Lomb Optical Co. No. 79,625; Sept. 20; Gaz. vol. 158; p. 699.
Mixture, Certain. A. Schaefer. No. 79,156; Aug. 9; Gaz. vol. 157; p. 482.
Mohairs and sicilians. Keen & Reville. No. 76,653; Feb. 8; Gaz. vol. 151; p. 445.
Molasses and corn-syrup compound. T. J. Henderson. No. 78,176; May 31; Gaz. vol. 154; p. 1406.
Molasses and corn-syrup, Compound of. Penick & Ford. No. 79,782; Oct. 4; Gaz. vol. 159; p. 239.
Molasses-jugs, salt, pepper, and sugar shakers. A. H. Heisey & Co. No. 76,733; Feb. 15; Gaz. vol. 151; p. 725.
Molasses to be used in horse and cattle feed. W. M. Wattles. No. 76,776; Feb. 15; Gaz. vol. 151; p. 726.
Molding and modeling machines. Pulvermacher und Bremermann, Gesellschaft mit beschränkter Haftung. No. 79,447; Sept. 6; Gaz. vol. 158; p. 224.
Molding material, Plastic. The Lewis Publishing Co. No. 78,251; May 31; Gaz. vol. 154; p. 1408.
Mops. Burdett Mfg. Co. No. 76,647; Feb. 8; Gaz. vol. 151; p. 445.
Motors and accessories, Explosion-. L. M. J. C. Levavasseur. No. 78,529; June 21; Gaz. vol. 155; p. 796.
Mouth-wash. The Zymole Company. No. 79,622; Sept. 20; Gaz. vol. 158; p. 699.
Mowers, Lawn-. Elwood Lawn Mower Manufacturing Company. No. 78,597; June 28; Gaz. vol. 155; p. 1038.
Mowers, Lawn-. W. Simpson & Sons. No. 78,650; June 28; Gaz. vol. 155; p. 1039.
Music-stands. Rudolph Wurlitzer Co. No. 78,372; June 7; Gaz. vol. 155; p. 303.
Musical-instrument strings. E. Stoll. No. 80,497; Dec. 27; Gaz. vol. 161; p. 1040.
Musical-instrument strings, Wire. Felten & Guilleaume-Lahmeyerwerke Actien-Gesellschaft. No. 76,567; Feb. 1; Gaz. vol. 151; p. 189.
Musical instruments and supplies. Rudolph Wurlitzer Co. No. 76,420; Jan. 11; Gaz. vol. 150; p. 567.
Musical instruments and supplies, Certain. The Rudolph Wurlitzer Co. No. 76,642; Feb. 8; Gaz. vol. 151; p. 445.
Musical instruments, Certain. The Rudolph Wurlitzer Co. No. 77,761; May 3; Gaz. vol. 154; p. 249.

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Musical instruments, Certain. F. Holton & Co. No. 79,978; Oct. 25; Gaz. vol. 159; p. 987.
Musical instruments, Wind. Besson and Company. No. 77,982; May 24; Gaz. vol. 154; p. 1103.
Musical strings. Rudolph Wurlitzer Co. Nos. 76,376–8; Jan. 11; Gaz. vol. 150; pp. 565–6.
Musical strings. Bauer & Dürrschmidt. No. 77,193; Mar. 22; Gaz. vol. 152; p. 953.
Musical strings. The Rudolph Wurlitzer Co. No. 80,256; Nov. 22; Gaz. vol. 160; p. 1034.
Muslins. Strawbridge & Clothier. No. 76,894; Feb. 22; Gaz. vol. 151; p. 1010.
Mustard, Compound. R. A. Lusk. No. 77,473; Apr. 12; Gaz. vol. 153; p. 542.
Nails. The Bishop & Babcock Co. No. 78,489; June 21; Gaz. vol. 155; p. 795.
Nails and tacks. The Weather-Proofing Nail Co. No. 77,774; May 3; Gaz. vol. 154; p. 249.
Nails and tacks, Wire. Globe Taunton Nail Company. No. 79,974; Oct. 25; Gaz. vol. 159; p. 987.
Nails, Horse-. The Capewell Horse Nail Company. No. 79,410; Sept. 6; Gaz. vol. 158; p. 223.
Nails, Horse-. The Capewell Horse Nail Company. No. 79,421; Sept. 6; Gaz. vol. 158; p. 224.
Nainsook, Mercerized. A. L. Reid & Co. No. 77,379; Apr. 5; Gaz. vol. 153; p. 267.
Naphtha and gasolene. Standard Oil Company of New York. No. 79,939; Oct. 18; Gaz. vol. 159; p. 744.
Napkins, Cotton damask. E. F. Rice & Co. No. 78,130; May 31; Gaz. vol. 154; p. 1405.
Neckties, cravats, scarfs, &c. Rouse, Hempstone & Co. No. 79,606; Sept. 20; Gaz. vol. 158; p. 698.
Needles. Henry Milward & Sons. No. 78,892; July 19; Gaz. vol. 156; p. 794.
Needles, Hand sewing-. The Singer Manufacturing Company. No. 79,937; Oct. 18; Gaz. vol. 159; p. 744.
Nets, Hair-. Poirier & Lindeman. No. 78,126; May 31; Gaz. vol. 154; p. 1405.
Newspaper comic section. McClure Newspaper Syndicate. Nos. 78,256–7; May 31; Gaz. vol. 154; p. 1408.
Newspapers and magazines, Weekly. S. Silverman. No. 76,460; Jan. 18; Gaz. vol. 150; p. 822.
Nicotin, Composition for diminishing the noxious effects of. Dr. A. Herbrand, G. m. b. H. No. 80,359; Dec. 13; Gaz. vol. 161; p. 525.
Nippers, pliers, punches, and hand-tools. William Schollhorn Company. No. 77,278; Mar. 22; Gaz. vol. 152; p. 955.
Notions, Certain. The Pittsburgh Dry Goods Company. No. 79,444; Sept. 6; Gaz. vol. 158; p. 224.
Numbering-machines. Wetter Numbering Machine Company. No. 80,097; Nov. 1; Gaz. vol. 160; p. 255.
Nut-bar. The Max Glick Company. No. 79,335; Aug 30; Gaz. vol. 157; p. 1239.
Nut-locks and metal washers. Keystone Nut Lock Mfg. Co. No. 78,184; May 31; Gaz. vol. 154; p. 1406.
Nutrient for alimentation of the colon. Fairchild Bros. & Foster. No. 76,526; Jan. 25; Gaz. vol. 150; p. 1037.
Oatmeal and rolled oats. F. B. Chamberlain Company. No. 78,038; May 24; Gaz. vol. 154; p. 1104.
Oil and beef-fat, Compound of cotton-seed. Swift and Company. No. 77,096; Mar. 8; Gaz. vol. 152; p. 484.
Oil and grease, Lubricating. Charles H. Besly & Company. No. 79,640; Sept. 27; Gaz. vol. 158; p. 879.
Oil and orange-flower water, Olive-. Lockwood, Brackett & Company. No. 76,761; Feb. 15; Gaz. vol. 151; p. 725.
Oil and tar-oil, Composition of cod-liver. Società. Prodtl. Chimco. Farmacci. A. Bertelli & C. No. 79,464; Sept. 13; Gaz. vol. 158; p. 477.
Oil, beef-fat, and oleo-stearin, Compound of cotton-seed. Columbia Cotton Oil and Provision Corporation. No. 80,345; Dec. 13; Gaz. vol. 161; p. 525.
Oil, beef-fat, and oleo-stearin, Compound of cotton-seed. Columbia Cotton Oil and Provision Corporation. No. 80,414; Dec. 20; Gaz. vol. 161; p. 749.
Oil-cloth and linoleum binding. R. Hubbell. No. 77,242; Mar. 22; Gaz. vol. 152; p. 954.
Oil, Cotton-seed. National Packing Company. No. 77,259; Mar. 22; Gaz. vol. 152; p. 955.
Oil, Cotton-seed. Aspegren & Co. No. 77,414; Apr. 5; Gaz. vol. 153; p. 268.
Oil, Cotton-seed. J. Goggin. No. 78,414; June 14; Gaz. vol. 155; p. 549.
Oil, Cotton-seed. Louisville Cotton Oil Co. No. 79,772; Oct. 4; Gaz. vol. 159; p. 238.
Oil, Cotton-seed and butter. Louisville Cotton Oil Co. No. 77,553; Apr. 19; Gaz. vol. 153; p. 818.
Oil, Cotton-seed cooking-. Armstrong Refining Company. No. 78,764; July 12; Gaz. vol. 156; p. 533.
Oil, French olive-. Elder-Harrison Company. No. 78,781; July 12; Gaz. vol. 156; p. 533.
Oil, Illuminating-. H. T. Cottam & Co. No. 76,831; Feb. 15; Gaz. vol. 151; p. 727.
Oil, Insulating-. General Electric Company. No. 79,120; Aug. 9; Gaz. vol. 157; p. 481.
Oil, Kerosene-. G. Amsinck & Co. No. 77,413; Apr. 5; Gaz. vol. 153; p. 268.
Oil, Lubricating-. C. Garson. No. 76,873; Feb. 22; Gaz. vol. 151; p. 1009.
Oil, Lubricating-. Fulcrum Oil Company. No. 78,082; May 31; Gaz. vol. 154; p. 1404.
Oil, Lubricating-. The Texas Company. No. 79,613; Sept. 20; Gaz. vol. 158; p. 699.
Oil, Lubricating and cleaning. G. A. Houghton. No. 79,911; Oct. 18; Gaz. vol. 159; p. 744.
Oil, Lucca olive-. Vittucci-Magnano, Inc. No. 78,844; July 12; Gaz. vol. 156; p. 535.
Oil, Mineral powder for decolorizing. H. Bensmann. No. 79,186; Aug. 16; Gaz. vol. 157; p. 749.
Oil, Olive-. Barton & Guestier. No. 76,524; Jan. 25; Gaz. vol. 150; p. 1037.
Oil, Olive-. G. Costa fu And. No. 77,417; Apr. 5; Gaz. vol. 153; p. 268.
Oil, Olive-. M. Bacci. No. 77,437; Apr. 12; Gaz. vol. 153; p. 541.
Oil, Olive-. Francis H. Leggett & Company. No. 77,460; Apr. 12; Gaz. vol. 153; p. 542.
Oil, Olive-. W. S. Hopkins. No. 77,920; May 17; Gaz. vol. 154; p. 831.
Oil, Olive-. MacMonnies & Von Elm. No. 77,935; May 17; Gaz. vol. 154; p. 832.
Oil, Olive-. Farrington & Whitney. No. 77,988; May 24; Gaz. vol. 154; p. 1103.
Oil, Olive-. MacMonnies & Von Elm. No. 78,013; May 24; Gaz. vol. 154; p. 1104.
Oil, Olive-. D. Maddaloni. No. 78,532; June 21; Gaz. vol. 155; p. 796.
Oil, Olive-. G. Granucci. No. 78,962; July 26; Gaz. vol. 156; p. 1062.
Oil, Olive-. A. Bennasser & Co. No. 79,185; Aug. 16; Gaz. vol. 157; p. 749.
Oil, Olive-. Bragno and Mustari. No. 79,813; Oct. 11; Gaz. vol. 159; p. 485.
Oil, Petroleum illuminating-. Maloney Oil & Manufacturing Company. No. 79,843; Oct. 11; Gaz. vol. 159; p. 486.
Oil preparations, Sandalwood-. The Heyden Chemical Works. No. 77,102; Mar. 8; Gaz. vol. 152; p. 484.
Oil, Refined bean-. Edible Products Company. No. 78,873; July 19; Gaz. vol. 156; p. 793.
Oil, Rust-proofing and lubricating. J. C. Beekman. No. 79,810; Oct. 11; Gaz. vol. 159; p. 485.
Oil, Salad-. M. Bacci. No. 77,191; Mar. 22; Gaz. vol. 152; p. 953.
Oils and grease, Lubricating. Pennsylvania Oil Works Co. No. 76,875; Feb. 22; Gaz. vol. 151; p. 1009.
Oils and greases, Lubricating. Penn Petroleum Company. No. 76,656; Feb. 8; Gaz. vol. 151; p. 445.
Oils and greases, Lubricating. Fiske Brothers Refining Co. No. 76,991; Mar. 1; Gaz. vol. 152; p. 226.
Oils and greases, Lubricating. Monarch Manufacturing Company. No. 77,666; Apr. 26; Gaz. vol. 153; p. 1079.
Oils and greases, Lubricating. C. J. Bushmeyer. No. 80,344; Dec. 13; Gaz. vol. 161; p. 525.
Oils and greases, Wood-refinishing. H. Wilkens. No. 80,452; Dec. 20; Gaz. vol. 161; p. 750.
Oils, Core-makers'. G. T. Clarkson. No. 78,941; July 26; Gaz. vol. 156; p. 1061.
Oils, Cotton-seed. Southern Cotton Oil Company. No. 77,272; Mar. 22; Gaz. vol. 152; p. 955.
Oils, greases, and pastes, Lubricating. L. Sonneborn Sons. No. 76,516; Jan. 25; Gaz. vol. 150; p. 1037.
Oils, Lubricating-. Bass-Hueter Paint Co. No. 77,047; Mar. 8; Gaz. vol. 152; p. 483.
Oils, Lubricating-. H. T. Alexander & Co. No. 77,131; Mar. 15; Gaz. vol. 152; p. 727.
Oils, Lubricating-. Indian Refining Company. No. 77,159; Mar. 15; Gaz. vol. 152; p. 728.
Oils, Lubricating-. Crescent Oil Company. No. 77,518; Apr. 19; Gaz. vol. 153; p. 817.
Oils, Lubricating-. Standard Oil Co. of New York. Nos. 80,245–8; Nov. 22; Gaz. vol. 160; p. 1034.
Oils, Lubricating-. Standard Oil Co. of New York. No. 80,385; Dec. 13; Gaz. vol. 161; p. 526.
Oils, Lubricating-. Tide Water Oil Company. No. 80,390; Dec. 13; Gaz. vol. 161; p. 526.
Oils, Watch, clock, and chronometer. Hammel, Riglander & Co. No. 78,091; May 31; Gaz. vol. 154; p. 1404.
Oiled-cloth and linoleum brass binding. R. Hubbell. No. 77,919; May 17; Gaz. vol. 154; p. 831.
Ointment. Continental Specialty Co. No. 76,809; Feb. 15; Gaz. vol. 151; p. 727.
Ointment. R. Neubauer. No. 77,747; May 3; Gaz. vol. 154; p. 248.
Ointment. Troy Chemical Co. No. 78,471; June 14; Gaz. vol. 155; p. 551.
Ointment. Foster Dack Co. No. 78,497; June 21; Gaz. vol. 155; p. 795.
Ointment. T. Holloway. Nos. 79,340–1; Aug. 30; Gaz. vol. 157; p. 1239.
Ointment. Dennis Manufacturing Company. No. 79,741; Oct. 4; Gaz. vol. 159; p. 237.
Ointment. Prairie Medicine Company. No. 79,784; Oct. 4; Gaz. vol. 159; p. 239.
Ointment. T. Holloway. No. 79,976; Oct. 25; Gaz. vol. 159; p. 987.
Ointment for diseases of the eye, ear, nose, and throat. Manhattan Eye Salve Company. No. 76,368; Jan. 11; Gaz. vol. 150; p. 565.
Ointment, hair-tonic, and salve. L. Samuels. No. 77,764; May 3; Gaz. vol. 154; p. 249.

Ointment, Hoof-. Jacob Strohauer & Sons' Co. No. 79,168; Aug. 9; Gaz. vol. 157; p. 483.
Ointment, Pile-. Pilo Ointment Co. No. 80,149; Nov. 8; Gaz. vol. 160; p. 490.
Ointments. T. J. Fay. No. 79,267; Aug. 23; Gaz. vol. 157; p. 995.
Ointments. C. H. McKeown. No. 80,141; Nov. 8; Gaz. vol. 160; p. 490.
Ointments. Rich. Schubert & Co. No. 80,496; Dec. 27; Gaz. vol. 161; p. 1040.
Ointments, tooth-pastes, salves, &c. Krewel & Co., Gesellschaft mit beschränkter Haftung No. 77,377; Apr. 5; Gaz. vol. 153; p. 267.
Oleaginous and waxy compound. H. W. Schenck. No. 78,830; July 12; Gaz. vol. 156; p. 535.
Oleomargarin. John F. Jelke Company. No. 77,246; Mar. 22; Gaz. vol. 152; p. 954.
Oleostearin and cotton-seed oil, Compound of. Armstrong Packing Company. No. 76,267; Jan. 4; Gaz. vol. 150; p. 261.
Optical and scientific apparatus, Certain. Bausch & Lomb Optical Co. No. 79,031; Aug. 2; Gaz. vol. 157; p. 203.
Oranges. Lindsay Producers Association. No. 76,792; Feb. 15; Gaz. vol. 151; p. 726.
Oranges. Lindsay Producers Association. Nos. 77,250–1; Mar. 22; Gaz. vol. 152; p. 954.
Oranges. W. F. Glynn & Co. No. 79,416; Sept. 6; Gaz. vol. 158; p. 224.
Oranges and grape-fruit. Pasadena Orange Growers Association. Nos. 77,563–4; Apr. 19; Gaz. vol. 153; p. 818.
Oranges and lemons. Fillmore Citrus Fruit Association. No. 78,236; May 31; Gaz. vol. 154; p. 1408.
Oranges and lemons. Fillmore Citrus Fruit Association. No. 80,178; Nov. 15; Gaz. vol. 160; p. 769.
Oranges, lemons, and grape-fruit. Ontario-Cucamonga Fruit Exchange. Nos. 76,597–8; Feb. 1; Gaz. vol. 151; p. 190.
Oranges, lemons, and grape-fruit. Zante Citrus Association. Nos. 76,609–10; Feb 1; Gaz. vol. 151; p. 190.
Oranges, lemons, and walnuts. C. E. Chapman. No. 76,581; Feb. 1; Gaz. vol. 151; p. 189.
Oranges, lemons, limes, and grape-fruit. W. N. Moore. No. 77,133; Mar. 15; Gaz. vol. 152; p. 727.
Orchestrions and pianofortes mechanically operated. Frankfurter Musikwerke-Fabrik J. D. Philipps & Söhne. No. 76,829; Feb. 15; Gaz. vol. 151; p. 727.
Orthopedic appliances. F. Haas. No. 78,968; July 26; Gaz. vol. 156; p. 1062.
Overalls. The Pittsburgh Dry Goods Company. No. 76,673; Feb. 8; Gaz. vol. 151; p. 446.
Overalls. Pittsburgh Dry Goods Company. No. 76,745; Feb. 15; Gaz. vol. 151; p. 725.
Overalls. The Union Special Overall Company. No. 77,968; May 17; Gaz. vol. 154; p. 833.
Overalls. Crown Overall Manufacturing Co. No. 78,315; June 7; Gaz. vol. 155; p. 301.
Overalls. Spokane Dry Goods Company. No. 79,374; Aug. 30; Gaz. vol. 157; p. 1240.
Overalls and overall-coats. High Point Overall Company. No. 80,055; Nov. 1; Gaz. vol. 160; p. 254.
Overalls and workingmen's coats. Detroit Overall Company. No. 76,742; Feb. 15; Gaz. vol. 151; p. 725.
Overalls, trousers, and jumpers. The Paterson Overall Company. No. 79,364; Aug. 30; Gaz. vol. 157; p. 1240
Overcoats and coats, Men's. Frankel Bros. No. 78,322; June 7; Gaz. vol. 155; p. 301.
Overcoats, coats, vests, and trousers. S. E. Reinhard. No. 80,440; Dec. 20; Gaz. vol. 161; p. 750.
Overcoats, outer suits, and trousers. The Feder, Silberberg Company. No. 78,293; May 31; Gaz. vol. 154; p. 1409.
Overcoats, ulsters, rain and automobile coats. Heidelberg, Wolff & Co. No. 78,095; May 31; Gaz. vol. 154; p. 1404.
Overshoes, boots, sole-pads, &c., Animal. Kinnell Manufacturing Company. No. 78,521; June 21; Gaz. vol. 155; p. 796.
Oxygen, Preparation of. Lever Brothers Company. No. 78,425; June 14; Gaz. vol. 155; p. 550.
Oysters, Fresh. Stratford Oyster Company. No. 77,273; Mar. 22; Gaz. vol. 152; p. 955.
Oysters, Fresh. A. G. Bailey. No. 78,226; May 31; Gaz. vol. 154; p. 1408.
Oysters, Fresh. A. G. Bailey. No. 79,714; Oct. 4; Gaz. vol. 159; p. 237.
Oysters, Fresh and canned. The Oyster Planters and Growers Association of Cotuit, Mass. No. 77,951; May 17; Gaz. vol. 154; p. 832.
Oysters, Fresh blue-point. N. S. Ackerly & Son Company. No. 79,882; Oct. 18; Gaz. vol. 159; p. 743.
Packing. G. F. Lufbery, Jr. No. 79,066; Aug. 2; Gaz. vol. 157; p. 204.
Packing, hose, and belting, Machinery. H. W. Buckner. No. 77,037; Mar. 1; Gaz. vol. 152; p. 227.
Packing, Machinery. Robert A. Keasbey Company. No. 79,839; Oct. 11; Gaz. vol. 159; p. 486.
Packings, Certain. Frankfurter Asbestwerke Aktiengesellschaft (Vormals Louis Wertheim.) No. 76,485; Jan. 18; Gaz. vol. 150; p. 822.
Packings, Machinery. R. Brandt. No. 78,860; July 19; Gaz. vol. 156; p. 793.
Pail, Mop-wringer. C. B. Bushnell. No. 79,557; Sept. 20; Gaz. vol. 158; p. 697.
Paint. Buffalo Oil Paint & Varnish Company. No. 76,307; Jan. 4; Gaz. vol. 150; p. 262.
Paint. A. Prée. No. 76,404; Jan. 11; Gaz. vol. 150; p. 566.
Paint. J. Dampney & Co. No. 78,944; July 26; Gaz. vol. 156; p. 1061.
Paint and varnish, Brewers' enamel. Charles Zoller Co. No. 77,515; Apr. 19; Gaz. vol. 153; p. 817.
Paint, Anticorrosive. Highland Chemical Products Company. No. 79,338; Aug. 30; Gaz. vol. 157; p. 1239.
Paint, Ceramic gold. W. A. Maurer. No. 77,937; May 17; Gaz. vol. 154; p. 832.
Paint, Copper. C. A. Woolsey Paint & Color Company. No. 78,476; June 14; Gaz. vol. 155; p. 551.
Paint for flat-finish inside use. A. Burdsal Company. No. 77,017; Mar. 1; Gaz. vol. 152; p. 227.
Paint, Liquid. The Hanna Paint Manufacturing Company. No. 78,513; June 21; Gaz. vol. 155; p. 796.
Paint, Marine. O. Reeder & Son. No. 80,153; Nov. 8; Gaz. vol. 160; p. 490.
Paint, metal-polish, and varnish-remover. Wadsworth-Howland Company. No. 77,053; Mar. 8; Gaz. vol. 152; p. 483.
Paint, Metal-preservative. Wadsworth-Howland Company. No. 80.094; Nov. 1; Gaz. vol. 160; p. 255.
Paint, Mixed. Platt & Thornburgh Paint Company. No. 77,329; Mar. 29; Gaz. vol. 152; p. 1220.
Paint, Mixed. Fort Wayne Drug Company. No. 77,416; Apr. 5; Gaz. vol. 153; p. 268.
Paint, Mixed. The Standard Improved Elastic Paint Company. No. 78,138; May 31; Gaz. vol. 154; p. 1405.
Paint-pigment. Binney & Smith Company. No. 79,322; Aug. 30; Gaz. vol. 157; p. 1239.
Paint, Varnish-. The Ault & Wiborg Co. No. 80,400; Dec. 20; Gaz. vol. 161; p. 749.
Paints. The Cincinnati Color Company. No. 77,048; Mar. 8; Gaz. vol. 152; p. 483.
Paints. Colonial Works. No. 79,412; Sept. 6; Gaz. vol. 158; p. 223.
Paints and paste colors. S. H. French & Co. No. 77,992; May 24; Gaz. vol. 154; p. 1103.
Paints and varnishes. J. C. Nicholson. No. 79,511; Sept. 13; Gaz. vol. 158; p. 478.
Paints, Anticorrosive. D. Anderson & Son. No. 79,805; Oct. 11; Gaz. vol. 159; p. 485.
Paints, Cold-water. Muralo Company. No. 76,453; Jan. 18; Gaz. vol. 150; p. 821.
Paints, enamels, bronze powders and liquids. Baer Bros. No. 76,828; Feb. 15; Gaz. vol. 151; p. 727.
Paints, enamels, fillers, stains, and varnishes. S. B. Bowen. No. 77,352; Mar. 29; Gaz. vol. 152; p. 1221.
Paints, fillers, varnishes, and stains. E. E. Nice. No. 78,728; July 5; Gaz. vol. 156; p. 254.
Paints, Marine. Amalgamated Paint Company. No 77,977; May 24; Gaz. vol. 154; p. 1103.
Paints, putty, and dry colors. Means & Thacher. No. 77,938; May 17; Gaz. vol. 154; p. 832.
Paints, Ready-mixed. The Square Paint Company. No. 79,703; Sept. 27; Gaz. vol. 158; p. 880.
Paints, Ready-mixed. E. N. Newburger. No. 79,853; Oct. 11; Gaz. vol. 159; p. 486.
Paints, Ready-mixed. The Peters-Pitkin Company. No. 79,931; Oct. 18; Gaz. vol. 159; p. 744.
Paints, Red metallic. Chattanooga Paint Co. No. 80,269; Nov. 29; Gaz. vol. 160; p. 1267.
Paints, varnishes, and paint compounds. Paraffine Paint Co. No. 76,564; Jan. 25; Gaz. vol. 150; p. 1038.
Paints, varnishes, fillers, colors, &c. E. E. Nice. No. 76,768; Feb. 15; Gaz. vol. 151; p. 726.
Paints, varnishes, oils, &c. Longman & Martinez. Nos. 79,434–5; Sept. 6; Gaz. vol. 158; p. 224.
Paints, varnishes, stains, and finishes. W. H. Rogers. No. 76,892; Feb. 22; Gaz. vol. 151; p. 1010.
Painters' materials. La Salle Varnish Co. No. 77,873; May 10; Gaz. vol. 154; p. 511.
Painters' materials. The Stockton Paint Company. No. 79,237; Aug. 16; Gaz. vol. 157; p. 750.
Painters' materials, Certain. M. E. Fox & Co. No. 79,046; Aug. 2; Gaz. vol. 157; p. 203.
Pancreas, Glycolytic extract of. Fairchild Bros. & Foster. No. 80,114; Nov. 8; Gaz. vol. 160; p. 489.
Paper. Champion Coated Paper Company. No. 78,938; July 26; Gaz. vol. 156; p. 1061.
Paper. District of Columbia Paper Manufacturing Company. No. 80,466; Dec. 27; Gaz. vol. 161; p. 1039.
Paper and cardboard, Manila tag. Carter Rice & Co. No. 77,038; Mar. 1; Gaz. vol. 152; p. 227.
Paper and composite roofing, Building-. Paraffine Paint Company. No. 79,002; July 26; Gaz. vol. 156; p. 1063.
Paper and envelops. Taylor-Burt Co. No. 76,315; Jan. 4; Gaz. vol. 150; p. 262.
Paper and envelops. The Taylor-Burt Co. No. 77,681; Apr. 26; Gaz. vol. 153; p. 1079.
Paper and envelops. Powers Paper Company. No. 78,632; June 28; Gaz. vol. 155; p. 1039.
Paper and envelops, Writing and printing. Raynor & Perkins Envelope Company. No. 77,672; Apr. 26; Gaz. vol. 153; p. 1079.
Paper and stationery, Certain. W. H. Smith & Son. No. 79,162; Aug. 9; Gaz. vol. 157; p. 483.

Alphabetical list of trade-marks—Continued.

Paper and stencils, Stencil-. L. E. Fuller. No. 80,310; Dec. 6; Gaz. vol. 161; p. 263.
Paper and type-writer ribbons, Carbon-. O. R. Brown Company. No. 77,901; May 17; Gaz. vol. 154; p. 831.
Paper and type-writer ribbons, Carbon-. Peerless Carbon & Ribbon Manufacturing Company. No. 78,900; July 19; Gaz. vol. 156; p. 794.
Paper and type-writer ribbons, Carbon-. The Dorsey Printing Co. No. 79,194; Aug. 16; Gaz. vol. 157; p. 749.
Paper bags. Cleveland-Akron Bag Co. No. 76,963; Mar. 1; Gaz. vol. 152; p. 225.
Paper bags. E-Z Opener Bag Company. No. 77,712; May 3; Gaz. vol. 154; p. 247.
Paper bags. The Michigan Bag & Paper Company. Nos. 78,188–90; May 31; Gaz. vol. 154; pp. 1406–7.
Paper bags. Crown-Columbia Pulp and Paper Co. No. 78,231; May 31; Gaz. vol. 154; p. 1408.
Paper bags. Crown-Columbia Pulp and Paper Co. Nos. 78,378–80; June 7; Gaz. vol. 155; p. 303.
Paper bags. Crown-Columbia Pulp and Paper Co. Nos. 78,864–5; July 19; Gaz. vol. 156; p. 793.
Paper bags. The Union Bag and Paper Company. No. 78,916; July 19; Gaz. vol. 156; p. 794.
Paper bags. Wayne Paper Goods Company. No. 79,312; Aug. 23; Gaz. vol. 157; p. 997.
Paper bags. Northern Bag & Plate Co. No. 79,512; Sept. 13; Gaz. vol. 158; p. 478.
Paper bags. The Union Bag and Paper Company. No. 80,253; Nov. 22; Gaz. vol. 160; p. 1034.
Paper, Blotting-. Moser Paper Company. No. 77,093; Mar. 8; Gaz. vol. 152; p. 484.
Paper, Blotting-. The Albemarle Paper Manufacturing Company. No. 77,115; Mar. 8; Gaz. vol. 152; p. 485.
Paper, Bond-. The J. C. Hall Company. No. 77,811; May 10; Gaz. vol. 154; p. 509.
Paper, Bond-. The J. C. Hall Company. No. 77,921; May 17; Gaz. vol. 154; p. 832.
Paper, Book-. Perkins-Goodwin Company. No. 76,769; Feb. 15; Gaz. vol. 151; p. 726.
Paper, Book-. J. W. Butler Paper Company. No. 77,469; Apr. 12; Gaz. vol. 153; p. 542.
Paper, Book-. Southwestern Paper Company. No. 78,653; June 28; Gaz. vol. 155; p. 1039.
Paper bottles and cups. National Coning Machinery Company. No. 78,195; May 31; Gaz. vol. 154; p. 1407.
Paper bottles, cups, and cartons. United States Paper Bottle Company. No. 79,241; Aug. 16; Gaz. vol. 157; p. 750.
Paper, Building-. H. Rosenberg. No. 77,332; Mar. 29; Gaz. vol. 152; p. 1220.
Paper, Carbon-. Unique Carbon Paper Co. Nos. 77,499–500; Apr. 12; Gaz. vol. 153; p. 543.
Paper, Carbon-. A. P. Little. No. 79,134; Aug. 9; Gaz. vol. 157; p. 482.
Paper, Carbon-. Pen-Carbon Manifold Company. No. 79,855; Oct. 11; Gaz. vol. 159; p. 486.
Paper, card and straw board, Wrapping-. The A. E. Mandel Paper Co. No. 77,082; Mar. 8; Gaz. vol. 152; p. 484.
Paper, Cover-. American Writing Paper Company. No. 79,546; Sept. 20; Gaz. vol. 158; p. 697.
Paper, Cover-. Chas. S. Boyd Paper Company. No. 79,646; Sept. 27; Gaz. vol. 158; p. 879.
Paper, Decalcomania-transfer graining-. Emil Majert Company. No. 77,524; Apr. 19; Gaz. vol. 153; p. 817.
Paper dishes. The Hanlon-Sharps Co. No. 77,311; Mar. 29; Gaz. vol. 152; p. 1219.
Paper, Drawing, pastel, and painting. H. Macbeth-Raeburn. No. 79,350; Aug. 30; Gaz. vol. 157; p. 1240.
Paper, envelops, and cardboard. Union Card & Paper Co. No. 77,031; Mar. 1; Gaz. vol. 152; p. 227.
Paper, envelops, and tablets, Certain named. Powers Paper Company, Associates. No. 79,445; Sept. 6; Gaz. vol. 158; p. 224.
Paper, envelops, and visiting-cards, Writing-. James McCreery & Company. No. 79,994; Oct. 25; Gaz. vol. 159; p. 988
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 76,885; Feb. 22; Gaz. vol. 151; p. 1010.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 78,304; June 7; Gaz. vol. 155; p. 301.
Paper, envelops, tablets, and blank books. J. C. Blair Company. Nos. 78,675–6; July 5; Gaz. vol. 156; p. 253.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 79,032; Aug. 2; Gaz. vol. 157; p. 203.
Paper, envelops, tablets, and blank books. J. C. Blair Company. Nos. 79,249–52; Aug. 23; Gaz. vol. 157; p. 995.
Paper, envelops, tablets, and blank books. J. C. Blair Company. Nos. 79,641–2; Sept. 27; Gaz. vol. 158; p. 879.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 80,207; Nov. 22; Gaz. vol. 160; p. 1033.
Paper, Gummed. Ideal Coated Paper Co. No. 77,543; Apr. 19; Gaz. vol. 153; p. 818.
Paper pails and boxes. Chicago Oyster Pail Company. No. 78,940; July 26; Gaz. vol. 156; p. 1061.
Paper, papeteries, and envelops, Writing-. Powers Paper Company, Associates. No. 78,902; July 19; Gaz. vol. 156; p. 794.
Paper, Roofing-. Bartholomew Roofing Co. No. 77,218; Mar. 22; Gaz. vol. 152; p. 953.
Paper-size. The Grasselli Chemical Company. No. 79,829; Oct. 11; Gaz. vol. 159; p. 485.
Paper, Toilet-. Scott Paper Company. No. 77,046; Mar. 1; Gaz. vol. 152; p. 227.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. No. 78,034; May 24; Gaz. vol. 154; p. 1104.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. No. 78,760; July 12; Gaz. vol. 156; p. 533.
Paper, Toilet-. A. H. Scott. No. 79,793; Oct. 4; Gaz. vol. 159; p. 239.
Paper, Toilet-. Scott Paper Company. No. 80,087; Nov. 1; Gaz. vol. 160; p. 255.
Paper, Toilet-. Scott Paper Company. No. 80,381; Dec. 13; Gaz. vol. 161; p. 526.
Paper, Wall-. Richard E. Thibaut, Inc. No. 79,171; Aug. 9; Gaz. vol. 157; p. 483.
Paper, Waterproof. Union Fibre Company. No. 78,917; July 19; Gaz. vol. 156; p. 795.
Paper, Wrapping-. Crown-Columbia Pulp and Paper Co. No. 78,866; July 19; Gaz. vol. 156; p. 793.
Paper, Wrapping-. Crown-Columbia Pulp and Paper Co. No. 79,191; Aug. 16; Gaz. vol. 157; p. 749.
Paper, Wrapping-. Crown-Columbia Pulp and Paper Co. No. 80,110; Nov. 8; Gaz. vol. 160; p. 489.
Paper, Wrapping-. Crown-Columbia Pulp and Paper Co. No. 80,347; Dec. 13; Gaz. vol. 161; p. 525.
Paper, Wrapping and printing. J. S. Luneschloss. No. 79,919; Oct. 18; Gaz. vol. 159; p. 744.
Paper, Writing-. D. E. Lloyd Paper Co. No. 76,323; Jan. 4; Gaz. vol. 150; p. 262.
Paper, Writing-. E. E. Lloyd Paper Co. No. 76,543; Jan. 25; Gaz. vol. 150; p. 1038.
Paper, Writing-. Crane Brothers. No. 77,087; Mar. 8; Gaz. vol. 152; p. 484.
Paper, Writing-. Southwestern Paper Co. No. 77,841; May 10; Gaz. vol. 154; p. 510.
Paper, Writing-. Crocker-McElwain Company. Nos. 77,905–8; May 17; Gaz. vol. 154; p. 831.
Paper, Writing-. Crocker-McElwain Company. No. 78,068; May 31; Gaz. vol. 154; p. 1403.
Paper, Writing-. W. E. Wroe & Company. No. 79,314; Aug. 23; Gaz. vol. 157; p. 997.
Paper, Writing-. W. E. Wroe & Company. No. 79,877; Oct. 11; Gaz. vol. 159; p. 487.
Paper, Writing-. Crocker-McElwain Company. No. 80,271; Nov. 29; Gaz. vol. 160; p. 1267.
Paper, Writing and printing. Union Card & Paper Co. No. 76,727; Feb. 8; Gaz. vol. 151; p. 447.
Paper, Writing and printing. American Writing Paper Company. No. 77,183; Mar. 15; Gaz. vol. 152; p. 728.
Paper, Writing and printing. American Writing Paper Company. Nos. 77,212–17; Mar. 22; Gaz. vol. 152; p. 953.
Paper, Writing and printing. American Writing Paper Company. No. 77,362; Apr. 5; Gaz. vol. 153; p. 267.
Paper, Writing and printing. J. T. Underwood. No. 77,383; Apr. 5; Gaz. vol. 153; p. 267.
Paper, Writing and printing. Neenah Paper Co. No. 78,044; May 24; Gaz. vol. 154; p. 1105.
Paper, Writing and printing. Parsons Paper Co. No. 78,045; May 24; Gaz. vol. 154; p. 1105.
Paper, Writing and printing. American Writing Paper Company. Nos. 78,053–6; May 31; Gaz. vol. 154; p. 1403.
Paper, Writing and printing. Lasher & Lathrop. Nos. 78,108–11; May 31; Gaz. vol. 154; p. 1404.
Paper, Writing and printing. American Writing Paper Company. Nos. 78,298–9; June 7; Gaz. vol. 155; p. 301.
Paper, Writing and printing. American Writing Paper Company. No. 78,374; June 7; Gaz. vol. 155; p. 303.
Paper, Writing and printing. Union Card & Paper Co. No. 78,841; July 12; Gaz. vol. 156; p. 535.
Paper, Writing and printing. Dresskell Paper Co. No. 78,956; July 26; Gaz. vol. 156; p. 1062.
Paper, Writing and printing. American Writing Paper Company. No. 79,316; Aug. 30; Gaz. vol. 157; p. 1239.
Paper, Writing and printing. Lasher & Lathrop. Nos. 79,346–7; Aug. 30; Gaz. vol. 157; p. 1240.
Paper, Writing and printing. The Monarch Typewriter Company. No. 79,356; Aug. 30; Gaz. vol. 157; p. 1240.
Paper, Writing and printing. American Writing Paper Company. Nos. 79,384–5; Sept. 6; Gaz. vol. 158; p. 223.
Paper, Writing and printing. American Writing Paper Company. No. 79,460; Sept. 13; Gaz. vol. 158; p. 477.
Paper, Writing and printing. Union Card & Paper Co. No. 79,616; Sept. 20; Gaz. vol. 158; p. 699.
Paper, Writing and printing. American Writing Paper Company. No. 79,638; Sept. 27; Gaz. vol. 158; p. 879.
Paper, Writing and printing. Lasher & Lathrop. No. 80,318; Dec. 6; Gaz. vol. 161; p. 263.
Paper, Writing and wrapping. Hollingsworth & Whitney Co. No. 80,056; Nov. 1; Gaz. vol. 160; p. 254.
Papers, Writing and wrapping. Hollingsworth & Whitney Co. No. 80,123; Nov. 8; Gaz. vol. 160; p. 489.
Papers and envelops, Writing and printing. Antietam Paper Co. No. 76,896; Feb. 22; Gaz. vol. 151; p. 1010.
Papers, Certain. Taylor-Burt Co. No. 76,385; Jan. 11; Gaz. vol. 150; p. 566.

Papers, Print-. Mead Pulp and Paper Co. No. 76,888; Feb. 22; Gaz. vol. 151; p. 1010.
Papers, tracing-cloths, pens, pencils, &c., Drawing and tracing. B. L. Makepeace. No. 77,026; Mar. 1; Gaz. vol. 152; p. 227.
Papers, Writing-. Whiting Paper Company. No. 78,148; May 31; Gaz. vol. 154; p. 1405.
Paraffin. Standard Oil Company. No. 76,659; Feb. 8; Gaz. vol. 151; p. 445.
Paste, Adhesive. Charles Zoller Co. No. 76,541; Jan. 25; Gaz. vol. 150; p. 1038.
Paste for labeling on tin. Arabol M'f'g. Co. No. 78,925; July 26; Gaz. vol. 156; p. 1061.
Pavements and paving material. Warren Brothers Company. No. 78,559; June 21; Gaz. vol. 155; p. 797.
Paving-blocks. The Alliance Clay Product Company. No. 80,016; Nov. 1; Gaz. vol. 160; p. 253.
Peanut-butter. Francis H. Leggett & Co. No. 79,990; Oct. 25; Gaz. vol. 159; p. 988.
Peanuts. The Suffolk Peanut Company. No. 79,532; Sept. 13; Gaz. vol. 158; p. 479.
Pencils. National Pencil Company. No. 76,594; Feb. 1; Gaz. vol. 151; p. 190.
Pencils. R. Best. No. 76,752; Feb. 15; Gaz. vol. 151; p. 725.
Pencils. A. W. Faber. No. 77,227; Mar. 22; Gaz. vol. 152; p. 954.
Pencils. A. W. Faber. No. 78,077; May 31; Gaz. vol. 154; p. 1403.
Pencils. A. W. Faber. No. 78,320; June 7; Gaz. vol. 155; p. 301.
Pencils and rubber erasers and rubber bands. J. W. Guttknecht. No. 78,089; May 31; Gaz. vol. 154; p. 1404.
Pencils, Lead-. Eagle Pencil Company. No. 76,544; Jan. 25; Gaz. vol. 150; p. 1038.
Pencils, Lead-. The Dorsey Printing Company. No. 77,088; Mar. 8; Gaz. vol. 152; p. 484.
Pencils, Lead-. Eagle Pencil Company. Nos. 77,797–9; May 10; Gaz. vol. 154; p. 509.
Pencils, Lead-. Eagle Pencil Company. No. 78,317; June 7; Gaz. vol. 155; p. 301.
Pencils, Lead-. L. & C. Hardtmuth. No. 78,970; July 26; Gaz. vol. 156; p. 1062.
Pencils, Lead-. A. L. Salomon & Co. No. 79,790; Oct. 4; Gaz. vol. 159; p. 239.
Pencils, Lead-. Blackwell-Wielandy Book & Stationery Co. No. 80,027; Nov. 1; Gaz. vol. 160; p. 253.
Pencils, Lead and ink. A. W. Faber. No. 78,319; June 7; Gaz. vol. 155; p. 301.
Pencils, penholders, and erasing-rubber. Bleistift-Fabrik vorm. Johann Faber, A.-G. No. 78,677; July 5; Gaz. vol. 156; p. 253.
Penholders. Eagle Pencil Company. No. 79,197; Aug. 16; Gaz. vol. 157; p. 749.
Pens and nibs. J. A. Alling. No. 79,883; Oct. 18; Gaz. vol. 159; p. 743.
Pens and pen-points, Fountain-. Diamond Point Pen Company. No. 79,475; Sept. 13; Gaz. vol. 158; p. 477.
Pens, Fountain-. The Parker Pen Company. No. 79,781; Oct. 4; Gaz. vol 159; p. 238.
Pens, Gold. V. C. Morton. No. 80,285; Nov. 29; Gaz. vol. 160; p. 1267.
Pens, Metallic. Eagle Pencil Company. No. 77,225; Mar. 22; Gaz. vol. 152; p. 954.
Pens, Writing-. M. Brown. No. 78,580; June 28; Gaz. vol. 155; p. 1037.
Pens, Writing-. M. Brown. No. 79,814; Oct. 11; Gaz. vol. 159; p. 485.
Percale. The Windsor Print Works. Nos. 80,333–4; Dec. 6; Gaz. vol. 161; p. 264.
Percale. Ely & Walker Dry Goods Co. No. 80,471; Dec. 27; Gaz. vol. 161; p. 1039.
Percales. Carson, Pirie, Scott & Co. No. 79,467; Sept. 13; Gaz. vol. 158; p. 477.
Perfume. Miro-Dena Company. No. 79,686; Sept. 27; Gaz. vol. 158; p. 880.
Perfume and toilet water. R. W. Black. No. 80,103; Nov. 8; Gaz. vol. 160; p. 489.
Perfume, toilet powder and water, and hair-lotion. J. & E. Atkinson. No. 79,387; Sept. 6; Gaz. vol. 158; p. 223.
Perfumes. H. Bronnley & Co. No. 77,175; Mar. 15; Gaz. vol. 152; p. 728.
Perfumes. Frederick Stearns & Co. No. 77,719; May 3; Gaz. vol. 154; p. 247.
Perfumes. Frederick Stearns & Co. No. 77,803; May 10; Gaz. vol. 154; p. 509.
Perfumes. F. S. Mason. No. 78,535; June 21; Gaz. vol. 155; p. 796.
Perfumes. Société Distilleries Francaises De La Vallée Des Roses. No. 80,088; Nov. 1; Gaz. vol. 160; p. 255.
Perfumes. Richard Hudnut. No. 80,184; Nov. 15; Gaz. vol. 160; p. 769.
Perfumes and talcum and face powders. Finlay, Dicks & Co. No. 79,116; Aug. 9; Gaz. vol. 157; p. 481.
Perfumes, dentifrices, and facial lotion. J. H. Stevens. No. 79,167; Aug. 9; Gaz. vol. 157; p. 483.
Perfumes, face-powders, and face-cream. H. Bronnley & Co. No. 76,588; Feb. 1; Gaz. vol. 151; p. 189.
Perfumes, face-powders, and toilet waters. A. Francis & Co. No. 79,750; Oct. 4; Gaz. vol. 159; p. 238.
Perfumes, toilet waters, face and sachet powders. C. B. Woodworth Sons Co. No. 77,154; Mar. 15; Gaz. vol. 152; p. 728.
Perfumery. Geo. Borgfeldt & Co. No. 77,174; Mar. 15; Gaz. vol. 152; p. 728.
Perfumery. Geo. Borgfeldt & Co. No. 77,915; May 17; Gaz. vol. 154; p. 831.
Perfumery and hair-tonic. J. Palazzolo. No. 76,479; Jan. 18; Gaz. vol. 150; p. 822.
Perfumery and other toilet preparations. K. k. landespriv. Milly-Kerzen-, Seifen- und Glycerin-Fabrik von F. A. Sarg's Sohn & Cie. No. 79,448; Sept. 6; Gaz. vol. 158; p. 224.
Perfumery, face-powder, toilet water and cream. A. F. Haddad. No. 76,971; Mar. 1; Gaz. vol. 152; p. 225.
Periodical, Monthly. Vickery & Hill Publishing Co. No. 76,319; Jan. 4; Gaz. vol. 150; p. 262.
Periodical, Monthly. Oswald Publishing Company. No. 78,439; June 14; Gaz. vol. 155; p. 550.
Periodical, Monthly. W. C. Bishop. No. 78,766; July 12; Gaz. vol. 156; p. 533.
Periodical, Weekly. Street & Smith. No. 77,581; Apr. 19; Gaz. vol. 153; p. 819.
Periodical, Weekly. Tobacco World Corporation. Nos. 80,251–2; Nov. 22; Gaz. vol. 160; p. 1034.
Periodicals. Farmers Home Journal Co. No. 76,394; Jan. 11; Gaz. vol. 150; p. 566.
Periodicals. Atchison, Topeka and Santa Fe Railway Company. No. 79,098; Aug. 9; Gaz. vol. 157; p. 481.
Periodicals, Trade. Arthur L. Evans Co. Nos. 79,112–13; Aug. 9; Gaz. vol. 157; p. 481.
Petroleum and kerosene, Refined. R. C. Corner. No. 76,872; Feb. 22; Gaz. vol. 151; p. 1009.
Petroleum products. Indiana Refining Company. No. 79,215; Aug. 16; Gaz. vol. 157; p. 750.
Petroleum, Refined. Standard Oil Co. of New York. No. 76,801; Feb. 15; Gaz. vol. 151; p. 727.
Petroleum, Refined. Standard Oil Co. of New York. No. 78,545; June 21; Gaz. vol. 155; p. 796.
Petroleum, Refined. Atlantic Refining Company. Nos. 80,019–20; Nov. 1; Gaz. vol. 160; p. 253.
Petroleum, Refined. Standard Oil Co. of New York. No. 80,386; Dec. 13; Gaz. vol. 161; p. 526.
Petroleum, Refined. The Atlantic Refining Company. No. 80,399; Dec. 20; Gaz. vol. 161; p. 749.
Petticoats. Benham Garment Co. No. 76,502; Jan. 25; Gaz. vol. 150; p. 1037.
Petticoats. National Cloak & Suit Company. No. 77,074; Mar. 8; Gaz. vol. 152; p. 483.
Petticoats. Younker Bros. No. 78,220; May 31; Gaz. vol. 154; p. 1407.
Petticoats and underskirts. The Dielhenn Manufacturing Company. No. 80,176; Nov. 15; Gaz. vol. 160; p. 769.
Pharmaceutical and toilet preparations and medicines. C. Erba. No. 77,455; Apr. 12; Gaz. vol. 153; p. 541.
Pharmaceutical preparation. F. Hoffmann-La Roche & Co. No. 77,371; Apr. 5; Gaz. vol. 153; p. 267.
Pharmaceutical preparations. S. L. Holmes. No. 78,328; June 7; Gaz. vol. 155; p. 302.
Phonograph-horns. National Phonograph Company. No. 77,478; Apr. 12; Gaz. vol. 153; p. 542.
Phonographs. Selig Polyscope Co. No. 76,798; Feb. 15; Gaz. vol. 151; p. 726.
Phonographs. National Phonograph Company. No. 77,134; Mar. 15; Gaz. vol. 152; p. 727.
Photographic apparatus. Eastman Kodak Co. No. 77,089; Mar. 8; Gaz. vol. 152; p. 484.
Photographic apparatus and supplies, Certain. Eastman Kodak Co. No. 77,226; Mar. 22; Gaz. vol. 152; p. 954.
Photographic developer. Societe Anonyme Des Plaques & Papiers Photographiques, A. Lumiere & Ses Fils. No. 76.555; Jan. 25; Gaz. vol. 150; p. 1038.
Photographic developing material. C. L. Mitchell. No. 78,983; July 26; Gaz. vol. 156; p. 1062.
Photographic developing substances. Chemische Fabrik Auf Actien (vorm. E. Schering). No. 76,542; Jan. 25; Gaz. vol. 150; p. 1038.
Photographic dry-plates. Central Dry Plate Company. No. 79,411; Sept. 6; Gaz. vol. 158; p. 223.
Photographic intensifiers and reducers. J. P. Reymond. No. 78,354; June 7; Gaz. vol. 155; p. 302.
Photographic intensifying solution. Harvey & Moore. No. 78,879; July 19; Gaz. vol. 156; p. 793.
Photographic paper. Eastman Kodak Co. Nos. 79,198–9; Aug. 16; Gaz. vol. 157; p. 749.
Photographic prints and negatives, Chemicals used in treating. Eastman Kodak Co. No. 78,872; July 19; Gaz. vol. 156; p. 793.
Photographic prints, Preparation for toning. H. H. McIntire. No. 76,294; Jan. 4; Gaz. vol. 150; p. 261.
Photographic-ray filters. G. Cramer Dry Plate Co. No. 78,863; July 19; Gaz. vol. 156; p. 793.
Photographs and lantern-slides. De Witt C. Wheeler. No. 77,300; Mar. 29; Gaz. vol. 152; p. 1219.
Piano-players and player-pianos. Farrand Company. No. 79,115; Aug. 9; Gaz. vol. 157; p. 481.
Piano-players, Mechanical. J. & C. Fischer. No. 76,856; Feb. 22; Gaz. vol. 151; p. 1009.
Pianos. Bellevue Piano Co. No. 77,896; May 17; Gaz. vol. 154; p. 831.

Alphabetical list of trade-marks—Continued.

Pianos. Schiller Piano Company. No. 77,961; May 17; Gaz. vol. 154; p. 833.
Pianos. Wallace Music Co. No. 80,330; Dec. 6; Gaz. vol. 161; p. 264.
Pianos and player-pianos. Behning Piano Co. No. 78,484; June 21; Gaz. vol. 155; p. 795.
Pianos, Interior player-. Geo. P. Bent Company. Nos. 77,722–3; May 3; Gaz. vol. 154; p. 247.
Pianos, organs, and music-chart frames. German-American Conservatory of Music. No. 80,051; Nov. 1; Gaz. vol. 160; p. 254.
Pianos, piano-players, and music-sheets. Aeolian Company. No. 77,975; May 24; Gaz. vol. 154; p. 1103.
Pianos, piano-players, and perforated music. The Aeolian Company. No. 77,432; Apr. 12; Gaz. vol. 153; p. 541.
Pianos, piano-players, and perforated music-sheets. The Aeolian Company. No. 78,759; July 12; Gaz. vol. 156; p. 533.
Pickles. L. Trunk. No. 78,049; May 24; Gaz. vol. 154; p. 1105.
Pickles and digestive relish. Midland Vinegar Company. No. 77,475; Apr. 12; Gaz. vol. 153; p. 542.
Pickles, catsup, chilli sauce, mustard, &c. J. Weller Company. No. 77,000; Mar. 1; Gaz. vol. 152; p. 226.
Picture films and projecting-machines therefor, Motion-. The Selig Polyscope Company. No. 80,383; Dec. 13; Gaz. vol. 161; p. 526.
Picture films, Moving-. Independent Moving Pictures Co. of America. No. 77,467; Apr. 12; Gaz. vol. 153; p. 542.
Picture films, Moving-. R. Prieur. No. 78,351; June 7; Gaz. vol. 155; p. 302.
Picture films, Moving-. Pantograph Corporation. No. 78,441; June 14; Gaz. vol. 155; p. 550.
Picture-frames. A. Hospe Co. No. 76,734; Feb. 15; Gaz. vol. 151; p. 725.
Picture machines, Moving-. Edison Manufacturing Company. No. 77,713; May 3; Gaz. vol. 154; p. 247.
Pictures and illustrations, Printed. The New York Herald Company. No. 78,265; May 31; Gaz. vol. 154; p. 1409.
Pictures and illustrations, Printed. The New York Herald Company. No. 79,359; Aug. 30; Gaz. vol. 157; p. 1240.
Pictures and pictorial illustration. R. R. Donnelley & Sons Company. No. 77,407; Apr. 5; Gaz. vol. 153; p. 268.
Pictures, Apparatus for the reproduction of moving. Selig Polyscope Co. No. 77,165; Mar. 15; Gaz. vol. 152; p. 728.
Piece goods, Certain. R. B. MacLea Company. No. 77,139; Mar. 15; Gaz. vol. 152; p. 727.
Piece goods, Certain. The Pittsburgh Dry Goods Company. No. 78,046; May 24; Gaz. vol. 154; p. 1105.
Piece goods, Certain. Rogers & Thompson. No. 78,827; July 12; Gaz. vol. 156; p. 535.
Piece goods, Certain. Rogers & Thompson. No. 79,604; Sept. 20; Gaz. vol. 158; p. 698.
Piece goods, Certain. The Salt's Textile Manufacturing Company. No. 79,999; Oct. 25; Gaz. vol. 159; p. 988.
Piece goods, lace, towels, ribbons, &c. Baltimore Bargain House. No. 79,392; Sept. 6; Gaz. vol. 158; p. 223.
File-drivers. Henry J. McCoy Co. No. 79,353; Aug. 30; Gaz. vol. 157; p. 1240.
Pill or tablet, Cathartic and laxative. The Morris Pharmacal Company of New York. No. 77,822; May 10; Gaz. vol. 154; p. 510.
Pills. H. B. Taylor. No. 77,111; Mar. 8; Gaz. vol. 152; p. 484.
Pills. T. Holloway. No. 79,342; Aug. 30; Gaz. vol. 157; p. 1239.
Pills. M. H. Navin. No. 79,358; Aug. 30; Gaz. vol. 157; p. 1240.
Pills. E. G. Brown. No. 79,408; Sept. 6; Gaz. vol. 158; p. 223.
Pills, Laxative cathartic. W. E. Hardman. No. 76,473; Jan. 18; Gaz. vol. 150; p. 822.
Pills, Liver-. G. A. Gottschalk. No. 78,416; June 14; Gaz. vol. 155; p. 549.
Pills, Specific. W. J. Baumgartner. No. 76,616; Feb. 1; Gaz. vol. 151; p. 190.
Pineapple-juice. C. J. Huelsenkamp. No. 79,912; Oct. 18; Gaz. vol. 159; p. 744.
Pins and cuff-links, Hat, stick, and beauty. Enterprise Jewelry Co. No. 80,045; Nov. 1; Gaz. vol. 160; p. 253.
Pins and needles, Certain. A. Steinhardt & Bro. No. 80,389; Dec. 13; Gaz. vol. 161; p. 526.
Pins, Safety-. American Pin Co. No. 79,179; Aug. 16; Gaz. vol. 157; p. 749.
Pins, safety-pins, and hooks and eyes. American Pin Company. No. 77,506; Apr. 19; Gaz. vol. 153; p. 817.
Pins, Toilet-. The Star Pin Company. No. 77,964; May 17; Gaz. vol. 154; p. 833.
Pipes. Schwabacher Bros. & Co. No. 76,306; Jan. 4; Gaz. vol. 150; p. 262.
Pipes and cylinders, Tools for cleaning. National Water Main Cleaning Co. No. 77,945; May 17; Gaz. vol. 154; p. 832.
Pipes and tubes, Metal. National Tube Company. No. 78,628; June 28; Gaz. vol. 155; p. 1038.
Pipes, Briar-wood tobacco-. Delacour Brothers. No. 79,654; Sept. 27; Gaz. vol. 158; p. 879.
Pipes, Metal. American Circular Loom Company. No. 78,671; July 5; Gaz. vol. 156; p. 253.
Pipes, Tobacco-. A. Oppenheimer & Co. No. 77,480; Apr. 12; Gaz. vol. 153; p. 542.
Placards advertising kinematograph shows. Compagnie Generale De Phonographes Cinematographes Et Appareils De Precision. No. 76,964; Mar. 1; Gaz. vol. 152; p. 225.
Placards advertising kinematograph shows. Compagnie Generale De Phonographes Cinematographes Et Appareils De Precision. No. 77,021; Mar. 1; Gaz. vol. 152; p. 227.
Planters, diggers, cutters, and sprayers, Potato. Aspinwall Manufacturing Company. No. 79,317; Aug. 30; Gaz. vol. 157; p. 1239.
Plants and trees. Missing Link Apple Co. No. 76,492; Jan. 18; Gaz. vol. 150; p. 823.
Plaster-of-paris. J. B. King & Co. No. 80,280; Nov. 29; Gaz. vol. 160; p. 1267.
Plasters, Corn and bunion. C. Bauer. No. 77,285; Mar. 29; Gaz. vol. 152; p. 1219.
Plasters, Corn and bunion. R. S. Starks. No. 79,165; Aug. 9; Gaz. vol. 157; p. 483.
Plastic composition for filling seams in woodwork, &c. H. B. F. Kuhls. No. 77,737; May 3; Gaz. vol. 154; p. 248.
Plastic compositions. Magnesite Building Material Company. No. 80,320; Dec. 6; Gaz. vol. 161; p. 263.
Plastic material. Protal Company. Nos. 79,632–5; Sept. 20; Gaz. vol. 158; p. 699.
Plows. Parlin & Orendorff Co. No. 79,443; Sept. 6; Gaz. vol. 158; p. 224.
Plumbers' fittings. Central Foundry Co. No. 77,862; May 10; Gaz. vol. 154; p. 511.
Plumbing supplies, Certain. The Humphryes Manufacturing Company. No. 76,669; Feb. 8; Gaz. vol. 151; p. 446.
Plumbing supplies, Certain. Rolf Martin Company. No. 76,700; Feb. 8; Gaz. vol. 151; p. 446.
Plumbing-traps. Providence Steam Trap Company. No. 78,275; May 31; Gaz. vol. 154; p. 1409.
Plumes, Artificial. Louis Metzger & Co. No. 79,593; Sept. 20; Gaz. vol. 158; p. 698.
Plumes, feather fans, &c., Prepared ostrich-. Spiegel Brothers. No. 78,544; June 21; Gaz. vol. 155; p. 796.
Pocket-books, card-cases, hand-bags, &c. M. Goldenberg. No. 77,997; May 24; Gaz. vol. 154; p. 1103.
Pokers, lid lifters, and shakers, Stove. Fanner Mfg. Co. No. 78,503; June 21; Gaz. vol. 155; p. 795.
Polish, Piano and furniture. Caddell Polish Company. No. 80,032; Nov. 1; Gaz. vol. 160; p. 253.
Polishes. Ben-Hur Metal Polish Co. No. 78,485; June 21; Gaz. vol. 155; p. 795.
Polishes. Adams & Elting Company. No. 80,203; Nov. 22; Gaz. vol. 160; p. 1033.
Polishes and dressings. Dorothy Dodd Shoe Co. No. 78,871; July 19; Gaz. vol. 156; p. 793.
Polishes and dressings. Thomas G. Plant Co. No. 78,901; July 19; Gaz. vol. 156; p. 794.
Polishing and cleaning preparations. M. M. Welch. No. 79,881; Oct. 11; Gaz. vol. 159; p. 487.
Polishing and cutting wheels. P. H. Gesswein. No. 77,993; May 24; Gaz. vol. 154; p. 1103.
Polishing, Black lead for. Hargreaves Bros. & Co. No. 78,794; July 12; Gaz. vol. 156; p. 534.
Polishing-cloth. L. Hayman. No. 80,122; Nov. 8; Gaz. vol. 160; p. 489.
Polishing-cloths. E. J. Archinard. No. 78,375; June 7; Gaz. vol. 155; p. 303.
Polishing-cloths. L. A. Voorhees. No. 79,090; Aug. 2; Gaz. vol. 157; p. 204.
Poplin piece goods. Reiling and Schoen. Nos. 78,024–7; May 24; Gaz. vol. 154; p. 1104.
Poplin piece goods. Reiling and Schoen. No. 78,129; May 31; Gaz. vol. 154; p. 1405.
Porcelain ware. Porzellanfabrik Weiden, Gebr. Bauscher, G. m. b. H. No. 79,599; Sept. 20; Gaz. vol. 158; p. 698.
Porter. Porterbryggeri-Aktiebolaget D. Carnegie & Co. No. 76,333; Jan. 4; Gaz. vol. 150; p. 263.
Porter, ale, and stout. J. & A. McKechnie Brewing Co. No. 79,995; Oct. 25; Gaz. vol. 159; p. 988.
Post, picture, &c., cards. National Invisible Print Co. No. 79,852; Oct. 11; Gaz. vol. 159; p. 486.
Potassium guiacol sulfonate. The Hoffmann-La Roche Chemical Works. No. 78,327; June 7; Gaz. vol. 155; p. 302.
Poultice, Anhydrous hyperthermic. Thermo-Chemicals Company. No. 78,468; June 14; Gaz. vol. 155; p. 551.
Poultice, Dry. Thermo-Chemicals Company. No. 80,007; Oct. 25; Gaz. vol. 159; p. 988.
Poultry and eggs, Dressed. Beyer Bros. Co. No. 77,595; Apr. 19; Gaz. vol. 153; p. 819.
Poultry and eggs, Dressed. H. M. Noack & Sons. No. 79,146; Aug. 9; Gaz. vol. 157; p. 482.
Poultry, Dressed. Beatrice Poultry & Cold Storage Co. No. 76,897; Feb. 22; Gaz. vol. 151; p. 1010.
Poultry, Dressed. Stuebe Bros. & Noack. No. 77,845; May 10; Gaz. vol. 154; p. 510.
Poultry, Dressed. S. B. Twining. No. 78,748; July 5; Gaz. vol. 156; p. 255.
Powder and antiseptic mouth-wash, Tooth-. K. A. Lingner. No. 77,930; May 17; Gaz. vol. 154; p. 832.

Alphabetical list of trade-marks—Continued.

Powder and cream, Face. The John Postance Company. No. 79,857; Oct. 11; Gaz. vol. 159; p. 486.
Powder and toilet water, Talcum. Norvell-Shapleigh Hardware Company. No. 79,360; Aug. 30; Gaz. vol. 157; p. 1240.
Powder, Antiseptic. Whitehouse Chemical Co. No. 80,098; Nov. 1; Gaz. vol. 160; p. 255.
Powder, Antiseptic. Smith, Kline & French Co. No. 80,158; Nov. 8; Gaz. vol. 160; p. 490.
Powder, Blasting-. National Powder Co. No. 78,627; June 28; Gaz. vol. 155; p. 1038.
Powder, Certain. International Pulp Company. No. 78,180; May 31; Gaz. vol. 154; p. 1406.
Powder, Foot-. Haefner Remedy Co. No. 79,575; Sept. 20; Gaz. vol. 158; p. 698.
Powder, Foot-. Purity Laboratories. No. 79,695; Sept. 27; Gaz. vol. 158; p. 880.
Powder for stopping leaks in cooling systems. The Northwestern Chemical Co. No. 77,826; May 10; Gaz. vol. 154; p. 510.
Powder for the extermination of cockroaches, &c. Maltet Chemical Company. No. 76,833; Feb. 15; Gaz. vol. 151; p. 727.
Powder, Insect-. Gilpin, Langdon & Company. No. 79,121; Aug. 9; Gaz. vol. 157; p. 481.
Powder, paste, and wash, Tooth. A. Lachaise. No. 78,613; June 28; Gaz. vol. 155; p. 1038.
Powder, Perfumed bath-. S. R. Feil Company. No. 77,179; Mar. 15; Gaz. vol. 152; p. 728.
Powder-puffs. B. E. Levy. No. 80,369; Dec. 13; Gaz. vol. 161; p. 526.
Powder, rouge, and nail-polish, Face-. La Francesa Co. No. 80,227; Nov. 22; Gaz. vol. 160; p. 1033.
Powder, Sachet-. The Henry B. Gilpin Co. No. 77,728; May 3; Gaz. vol. 154; p. 248.
Powder, Safety-. Burton Powder Company. No. 76,611; Feb. 1; Gaz. vol. 151; p. 190.
Powder, Shampoo-. R. G. Edwards. No. 79,966; Oct. 25; Gaz. vol. 159; p. 987.
Powder, Smokeless. E. I. du Pont de Nemours Powder Company. No. 79,005; July 26; Gaz. vol. 156; p. 1063.
Powder, Smokeless. E. I. du Pont de Nemours Powder Company. No. 79,965; Oct. 25; Gaz. vol. 159; p. 987.
Powder, Smokeless. E. I. du Pont de Nemours Powder Company. No. 80,044; Nov. 1; Gaz. vol. 160; p. 253.
Powder, Talcum. P. W. Hessberg. No. 76,474; Jan. 18; Gaz. vol. 150; p. 822.
Powder, Talcum. Gerhard Mennen Chemical Co. No. 78,506; June 21; Gaz. vol. 155; p. 795.
Powder, Talcum. Gerhard Mennen Chemical Co. No. 79,069; Aug. 2; Gaz. vol. 157; p. 204.
Powder, Toilet. R. A. Anderson. No. 78,391; June 14; Gaz. vol. 155; p. 549.
Powder, Toilet. A. J. Krank. No. 79,918; Oct. 18; Gaz. vol. 159; p. 744.
Powder, Toilet, bath, and tooth. K. Nakayama. No. 78,895; July 19; Gaz. vol. 156; p. 794.
Powder, Tooth-. Underwood & Carroll. No. 77,112; Mar. 8; Gaz. vol. 152; p. 484.
Powders and compounds, Certain. Cotto-Waxo Chemical Company. No. 76,413; Jan. 11; Gaz. vol. 150; p. 566.
Powders, Blasting-. G. R. McAbee Powder & Oil Company. No. 77,054; Mar. 8; Gaz. vol. 152; p. 483.
Powders, Dry, soluble, alkali. The J. B. Ford Company. No. 77,375; Apr. 5; Gaz. vol. 153; p. 267.
Powders, Headache-. Pollock Medicine Co. No. 80,081; Nov. 1; Gaz. vol. 160; p. 255.
Powders, Tooth-. W. A. Moore. No. 78,626; June 28; Gaz. vol. 155; p. 1038.
Precious-metal and plated ware, Certain. Charles A. Bennett Company. No. 77,903; May 17; Gaz. vol. 154; p. 831.
Precious-metal articles, Certain. Charles B. Byron Company. No. 79,892; Oct. 18; Gaz. vol. 159; p. 743.
Precious-metal articles, Certain. V. C. Morton. No. 80,234; Nov. 22; Gaz. vol. 160; p. 1034.
Precious metal for personal adornment, Goods plated with. Geo. L. Paine Co. No. 79,150; Aug. 9; Gaz. vol. 157; p. 482.
Precious-metal ware, Certain. Chapin & Hollister Company. No. 78,064; May 31; Gaz. vol. 154; p. 1403.
Precious-metal ware, Certain. Shreve & Company. No. 78,358; June 7; Gaz. vol. 155; p. 302.
Precious-metal ware, Certain. Taylor & Co. No. 78,662; June 28; Gaz. vol. 155; p. 1039.
Precious or plated metal articles, Certain. W. G. Clark & Co. No. 78,400; June 14; Gaz. vol. 155; p. 549.
Preparation for eradicating warts. J. J. Georges & Son. No. 77,733; May 3; Gaz. vol. 154; p. 248.
Preparation for treating blight. J. W. Robertson. No. 79,603; Sept. 20; Gaz. vol. 158; p. 698.
Preparation to be used as a first coater. Standard Varnish Works. No. 76,979; Mar. 1; Gaz. vol. 152; p. 226.
Preparation to deodorize and lessen excessive perspiration. J. T. Padgett. No. 78,817; July 12; Gaz. vol. 156; p. 534.
Preparations for the removal of freckles. O. H. White. No. 79,801; Oct. 4; Gaz. vol. 159; p. 239.
Preparations for treating the complexion, Liquid. M. M. Le Blanc. No. 79,987; Oct. 25; Gaz. vol. 159; p. 988.
Preserved vegetables and fruits. Fabrique Internationale de conserves alimentaires Le Soleil, à Malines. (Société Anonyme.) No. 78,502; June 21; Gaz. vol. 155; p. 795.
Printed matter, Certain. Gottschalk, Dreyfuss & Davis. No. 76,970; Mar. 1; Gaz. vol. 152; p. 225.
Printed matter, Certain. B. S. Adams. No. 80,015; Nov. 1; Gaz. vol. 160; p. 253.
Printers' furniture. A. F. Wanner & Co. No. 77,504; Apr. 19; Gaz. vol. 153; p. 817.
Printers' materials. T. H. Nevin Company. No. 80,488; Dec. 27; Gaz. vol. 161; p. 1040.
Printing and delivering machines, Ticket. Elmer Manufacturing Company. No. 80,470; Dec. 27; Gaz. vol. 161; p. 1039.
Printing-press blanket. Tingue Brown & Co. No. 78,840; July 12; Gaz. vol. 156; p. 535.
Printing-presses and parts thereof. M. Plum. No. 77,882; May 10; Gaz. vol. 154; p. 512.
Projecting apparatus. H. C. White Co. No. 80,012; Oct. 25; Gaz. vol. 159; p. 988.
Publication, Periodical. Fred L. Kimball Company. No. 80,128; Nov. 8; Gaz. vol. 160; p. 489.
Publication, Weekly. Examiner Printing Company. No. 79,968; Oct. 25; Gaz. vol. 159; p. 987.
Publications, Periodical. C. K. Fitch. No. 79,746; Oct. 4; Gaz. vol. 159; p. 238.
Publications, Periodical financial. C. K. Fitch. No. 79,970; Oct. 25; Gaz. vol. 159; p. 987.
Pulleys. The Paul Manufacturing Company. No. 78,204; May 31; Gaz. vol. 154; p. 1407.
Pulleys and wheels for machinery and tools. American Pulley Company. No. 77,211; Mar. 22; Gaz. vol. 152; p. 953.
Pulverizing-machines. A. Karlson Metall- & Maskin-Aktiebolag. No. 79,061; Aug. 2; Gaz. vol. 157; p. 204.
Pump, Compound hand-. The Coe-Stapley Manufacturing Company. No. 80,036; Nov. 1; Gaz. vol. 160; p. 253.
Pumps and parts thereof. The Darling Pump & Man'fg. Co. No. 78,232; May 31; Gaz. vol. 154; p. 1408.
Pumps and tanks, Self-measuring. Wayne Oil Tank & Pump Company. No. 80,295; Nov. 29; Gaz. vol. 160; p. 1268.
Pumps, Hand and power. The Humphryes Manufacturing Company. No. 76,689; Feb. 8; Gaz. vol. 151; p. 446.
Pumps, Oil-. American Oil Pump & Tank Co. No. 78,222; May 31; Gaz. vol. 154; p. 1407.
Pumps, Power and hand. The Goulds Manufacturing Company. No. 80,354; Dec. 13; Gaz. vol. 161; p. 525.
Pumps, Rotary. Kinney Mfg. Co. No. 80,281; Nov. 29; Gaz. vol. 160; p. 1267.
Puzzles. Excello Mfg. Co. No. 76,854; Feb. 22; Gaz. vol. 151; p. 1009.
Radiators and boilers. American Radiator Company. No. 76,482; Jan. 18; Gaz. vol. 150; p. 822.
Ragout of egg-plant. A. Cusimano & Co. No. 80,415; Dec. 20; Gaz. vol. 161; p. 749.
Railway brake-shoes. National Brake & Clutch Co. No. 78,985; July 26; Gaz. vol. 156; p. 1062.
Raisins. California Fruit Canners Association. No. 79,189; Aug. 16; Gaz. vol. 157; p. 749.
Raisins, Dried. F. Q. Rast. No. 76,300; Jan. 4; Gaz. vol. 150; p. 262.
Raisins, Dried. The J. K. Armsby Company. Nos. 77,402–3; Apr. 5; Gaz. vol. 153; p. 268.
Razor hones and strops. Bison Manufacturing Co. No. 78,767; July 12; Gaz. vol. 156; p. 533.
Razor-sharpeners. T. M. Ambler. No. 80,336; Dec. 13; Gaz. vol. 161; p. 525.
Razor-sharpening instruments. F. A. Reichardt. No. 78,386; June 7; Gaz. vol. 155; p. 303.
Razor-strops. E. B. Gibford. No. 76,395; Jan. 11; Gaz. vol. 150; p. 566.
Razor-strops and dressings therefor. J. Basil. No. 76,615; Feb. 1; Gaz. vol. 151; p. 190.
Razors. Geneva Cutlery Company. No. 76,509; Jan. 25; Gaz. vol. 150; p. 1037.
Razors. Novelty Sales Company. No. 77,611; Apr. 26; Gaz. vol. 153; p. 1077.
Razors. Novelty Sales Company. No. 77,669; Apr. 26; Gaz. vol. 153; p. 1079.
Razors. E. Weck. No. 77,682; Apr. 26; Gaz. vol. 153; p. 1079.
Razors. Magnetic Cutlery Company. No. 79,351; Aug. 30; Gaz. vol. 157; p. 1240.
Razors and razor-blades. E. W. Spring. No. 78,212; May 31; Gaz. vol. 154; p. 1407.
Razors and scissors. Alexis Witte Cutlery Co. No. 77,433; Apr. 12; Gaz. vol. 153; p. 541.
Razors, hatchets, and shears. Norvell-Shapleigh Hardware Company. No. 78,019; May 24; Gaz. vol. 154; p. 1104.
Razors, Safety-. Kampfe Bros. No. 78,247; May 31; Gaz. vol. 154; p. 1408.
Razors, scissors, shears, and steel table-cutlery. Wester Bros. Nos. 79,093–4; Aug. 2; Gaz. vol. 157; pp. 204–5.
Receptacles, Certain. Forsyth Manufacturing Company. No. 77,913; May 17; Gaz. vol. 154; p. 831.
Receptacles, Certain. Norvell-Shapleigh Hardware Company. No. 78,731; July 5; Gaz. vol. 156; p. 254.

Alphabetical list of trade-marks—Continued.

Rectal diseases and constipation, Apparatus for treating. J. P. Sanborn. No. 78,280; May 31; Gaz. vol. 154; p. 1409.
Reflectors, Electric-light. E. J. O'Beirne & Co. No. 79,148; Aug. 9; Gaz. vol. 157; p. 482.
Refrigerators. New Hygenic Refrigerator Co. No. 77,425; Apr. 5; Gaz. vol. 153; p. 268.
Refrigerators. A. L. Canfield. No. 77,451; Apr. 12; Gaz. vol. 153; p. 541.
Refrigerators. Norvell-Shapleigh Hardware Company. No. 78,201; May 31; Gaz. vol. 154; p. 1407.
Refrigerators. Viking Refrigerator & Mfg. Co. No. 78,555; June 21; Gaz. vol. 155; p. 797.
Refrigerators. Gurney Refrigerator Company. No. 78,877; July 19; Gaz. vol. 156; p. 793.
Refrigerators. Grand Rapids Refrigerator Company. No. 79,418; Sept. 6; Gaz. vol. 158; p. 224.
Refrigerators. Gurney Refrigerator Company. No. 79,491; Sept. 13; Gaz. vol. 158; p. 478.
Refrigerators and freezing-machines and parts of same. Werner, Pfleiderer & Perkins. No. 76,661; Feb. 8; Gaz. vol. 151; p. 445.
Registers. E. C. Fox. No. 78,081; May 31; Gaz. vol. 154; p. 1404.
Remedial agents. F. H. Strong Company. No. 77,911; May 17; Gaz. vol. 154; p. 831.
Remedies, Antirheumatic, antipyretic, and analgesic. Leighton-Wright Company. No. 78,112; May 31; Gaz. vol. 154; p. 1404.
Remedies, Certain. C. F. Simmons Medicine Company. No. 79,527; Sept. 13; Gaz. vol. 158; p. 479.
Remedies for certain diseases. Acme Remedy Company. No. 76,412; Jan. 11; Gaz. vol. 150; p. 566.
Remedies for certain diseases. E. J. Wilson. No. 76,954; Mar. 1; Gaz. vol. 152; p. 225.
Remedies for certain diseases. N. Caron & Co. No. 76,961; Mar. 1; Gaz. vol. 152; p. 225.
Remedies for certain diseases. Goodness Bros. Co. No. 77,369; Apr. 5; Gaz. vol. 153; p. 267.
Remedies for certain diseases. R. S. Ferrell. No. 77,527; Apr. 19; Gaz. vol. 153; p. 817.
Remedies for certain diseases. F. Wagner. No. 77,971; May 17; Gaz. vol. 154; p. 833.
Remedies for certain diseases. S. D. Clegg. No. 79,323; Aug. 30; Gaz. vol. 157; p. 1239.
Remedies for certain diseases. H. L. True. No. 79,453; Sept. 6; Gaz. vol. 158; p. 225.
Remedies for certain diseases. Royal Health Medicine Co. No. 79,607; Sept. 20; Gaz. vol. 158; p. 698.
Remedies for certain diseases. The Hartman Drug Company. No. 79,669; Sept. 27; Gaz. vol. 158; p. 880.
Remedies for coughs, colds, grippe, &c. Synvita Medicine Co. No. 79,533; Sept. 13; Gaz. vol. 158; p. 479.
Remedies for diseases of dogs. A. De la Teyssonnière. No. 79,451; Sept. 6; Gaz. vol. 158; p. 225.
Remedies for diseases of the bladder and kidneys. Interstate Remedy Co. No. 77,161; Mar. 15; Gaz. vol. 152; p. 728.
Remedies for diseases of the eye. The Zymole Company. No. 77,858; May 10; Gaz. vol. 154; p. 511.
Remedies for diseases of the respiratory organs and kidneys and rheumatic troubles. W. A. Leach. No. 76,940; Feb. 22; Gaz. vol. 151; p. 1011.
Remedies for gout. J. G. M. de Chanaud. No. 77,452; Apr. 12; Gaz. vol. 153; p. 541.
Remedies for hog-cholera. G. M. Sligar & Sons. No. 77,839; May 10; Gaz. vol. 154; p. 510.
Remedies for malaria. G. S. Ficini. No. 79,480; Sept. 13; Gaz. vol. 158; p. 477.
Remedies for piles. D. A. Carlyle. No. 80,461; Dec. 27; Gaz. vol. 161; p. 1039.
Remedies for skin diseases. E. T. Richards. No. 78,826; July 12; Gaz. vol. 156; p. 535.
Remedies for the diseases of horses. Smith's Original Remedy Company. No. 80,159; Nov. 8; Gaz. vol. 160; p. 490.
Remedies for venereal diseases. R. N. Partin. No. 78,125; May 31; Gaz. vol. 154; p. 1405.
Remedies, Headache. J. D. Chisholm Chemical Company. No. 76,813; Feb. 15; Gaz. vol. 151; p. 727.
Remedies, Medicinal. New York Chemical Company. No. 79,144; Aug. 9; Gaz. vol. 157; p. 482.
Remedies, Rheumatic. The Colonial Drug Co. No. 79,823; Oct. 11; Gaz. vol. 159; p. 485.
Remedy against diabetes. H. Rieck. No. 76,303; Jan. 4; Gaz. vol. 150; p. 262.
Remedy against whooping-cough. P. Krause. No. 77,376; Apr. 5; Gaz. vol. 153; p. 267.
Remedy and tonic, Blood. Milam Medicine Company. Nos. 79,683–4; Sept. 27; Gaz. vol. 158; p. 880.
Remedy, Catarrhal. C. E. Busey. No. 78,936; July 26; Gaz. vol. 156; p. 1061.
Remedy, Foot. W. V. Slaker. No. 79,528; Sept. 13; Gaz. vol. 158; p. 479.
Remedy for affections of the throat and lungs. E. H. Barnes. No. 78,483; June 21; Gaz. vol. 155; p. 795.
Remedy for all laxed conditions of the bowels. S. E. Cosson. No. 79,963; Oct. 25; Gaz. vol. 159; p. 987.
Remedy for animals. R. Lynch. No. 76,816; Feb. 15; Gaz. vol. 151; p. 727.
Remedy for asthma. L. W. Moon. No. 78,192; May 31; Gaz. vol. 154; p. 1407.
Remedy for blood diseases. R. N. Jay. No. 76,938; Feb. 22; Gaz. vol. 151; p. 1011.
Remedy for blood diseases. American Home Remedy Company. No. 79,096; Aug. 9; Gaz. vol. 157; p. 481.
Remedy for blood-poisoning in colts. T. B. Bowman. No. 78,397; June 14; Gaz. vol. 155; p. 549.
Remedy for body-odors. W. J. Lautz. No. 79,064; Aug. 2; Gaz. vol. 157; p. 204.
Remedy for cancer. C. A. Cameron. No. 77,200; Mar. 22; Gaz. vol. 152; p. 953.
Remedy for cancer. Chemical Manufacturing Company. No. 79,895; Oct. 18; Gaz. vol. 159; p. 743.
Remedy for cancers. J. L. Bohannon. No. 78,576; June 28; Gaz. vol. 155; p. 1037.
Remedy for catarrh, hay-fever, asthma, and colds. The House of Johnson. No. 78,883; July 19; Gaz. vol. 156; p. 794.
Remedy for certain diseases. L. Duffy. No. 76,392; Jan. 11; Gaz. vol. 150; p. 566.
Remedy for certain diseases. Eckman Mf'g. Co. No. 76,585; Feb. 1; Gaz. vol. 151; p. 189.
Remedy for certain diseases. Norway Medicine Company. No. 76,819; Feb. 15; Gaz. vol. 151; p. 727.
Remedy for certain diseases. Paul Brothers Medicine Co. No. 76,924; Feb. 22; Gaz. vol. 151; p. 1011.
Remedy for certain diseases. J. W. Strausbaugh. No. 76,980; Mar. 1; Gaz. vol. 152; p. 226.
Remedy for certain diseases. International Chemical & Drug Co. No. 77,160; Mar. 15; Gaz. vol. 152; p. 728.
Remedy for certain diseases. J. H. Lester. No. 77,248; Mar. 22; Gaz. vol. 152; p. 954.
Remedy for certain diseases. J. T. Duckworth. No. 77,521; Apr. 19; Gaz. vol. 153; p. 817.
Remedy for certain diseases. Combs Liniment Firm. No. 77,620; Apr. 26; Gaz. vol. 153; p. 1077.
Remedy for certain diseases. Burwell & Dunn Co. No. 78,062; May 31; Gaz. vol. 154; p. 1403.
Remedy for certain diseases. N. A. Harris. No. 78,094; May 31; Gaz. vol. 154; p. 1404.
Remedy for certain diseases. Fox Chemical Company. No. 78,172; May 31; Gaz. vol. 154; p. 1406.
Remedy for certain diseases. H. Garey. No. 78,323; June 7; Gaz. vol. 155; p. 301.
Remedy for certain diseases. I. W. Jenkins. No. 78,330; June 7; Gaz. vol. 155; p. 302.
Remedy for certain diseases. A. Ertel. No. 78,408; June 14; Gaz. vol. 155; p. 549.
Remedy for certain diseases. P. H. Coverdale. No. 78,589; June 28; Gaz. vol. 155; p. 1037.
Remedy for certain diseases. Dilliard Remedy Co. No. 78,870; July 19; Gaz. vol. 156; p. 793.
Remedy for certain diseases. C. F. Kasten. No. 78,885; July 19; Gaz. vol. 156; p. 794.
Remedy for certain diseases. A. L. Ruffe. No. 79,232; Aug. 16; Gaz. vol. 157; p. 750.
Remedy for certain diseases. The Hoffmann-La Roche Chemical Works. No. 79,577; Sept. 20; Gaz. vol. 158; p. 698.
Remedy for certain diseases. J. H. Zeilin & Company. No. 79,711; Sept. 27; Gaz. vol. 158; p. 881.
Remedy for certain diseases. Farbwerke vorm. Meister Lucius & Brüning. No. 79,969; Oct. 25; Gaz. vol. 159; p. 987.
Remedy for certain diseases. F. Asch. No. 80,018; Nov. 1; Gaz. vol. 160; p. 253.
Remedy for certain diseases. Farbwerke vorm. Meister Lucius & Brüning. No. 80,115; Nov. 8; Gaz. vol. 160; p. 489.
Remedy for certain diseases. D. A. Marino. No. 80,189; Nov. 15; Gaz. vol. 160; p. 769.
Remedy for certain named diseases. W. S. Langhorne, Jr. No. 79,429; Sept. 6; Gaz. vol. 158; p. 224.
Remedy for chicken-gape. Barrell and Barrell. No. 77,608; Apr. 26; Gaz. vol. 153; p. 1077.
Remedy for chills, fever, and ague. Skidoo Remedy Company, (now Lee Remedy Company.) No. 79,611; Sept. 20; Gaz. vol. 158; p. 699.
Remedy for colds and grippe. Zymole Company. No. 76,983; Mar. 1; Gaz. vol. 152; p. 226.
Remedy for colds, croup, and pain. L. B. Diez. No. 77,987; May 24; Gaz. vol. 154; p. 1103.
Remedy for colic. S. A. Murphy. No. 80,324; Dec. 6; Gaz. vol. 161; p. 263.
Remedy for constipation. J. T. Potter. No. 78,128; May 31; Gaz. vol. 154; p. 1405.
Remedy for corns. G. W. Schindler. No. 80,380; Dec. 13; Gaz. vol. 161; p. 526.
Remedy for corns and calli. F. K. Bowers. No. 77,898; May 17; Gaz. vol. 154; p. 831.
Remedy for coughs and colds. O. D. Miller. No. 79,685; Sept. 27; Gaz. vol. 158; p. 880.
Remedy for coughs, colds, &c. F. G. Kessling. No. 76,477; Jan. 18; Gaz. vol. 150; p. 822.
Remedy for cutaneous diseases. The Hoffmann-La Roche Chemical Works. No. 80,424; Dec. 20; Gaz. vol. 161; p. 749.
Remedy for cutaneous eruptions. T. J. Newbery. No. 78,815; July 12; Gaz. vol. 156; p. 534.

Remedy for diseases of fowls and chicken-cholera. L. M. Taylor. No. 76,633; Feb. 1; Gaz. vol. 151; p. 191.
Remedy for diseases of poultry. W. H. Macnair. No. 77,690; Apr. 26; Gaz. vol. 153; p. 1079.
Remedy for diseases of swine. M. Dienstfertig. No. 79,656; Sept. 27; Gaz. vol. 158; p. 879.
Remedy for diseases of the blood. W. F. Hill. No. 79,576; Sept. 20; Gaz. vol. 158; p. 698.
Remedy for diseases of the blood. Tydings & Co. No. 80,501; Dec. 27; Gaz. vol. 161; p. 1040.
Remedy for diseases of the blood, sprains, corns, and warts. J. M. Reinhardt. No. 79,230; Aug 16; Gaz. vol. 157; p. 750.
Remedy for diseases of the bowels and stomach. Nourilean Remedy Company. No. 76,550; Jan. 25; Gaz. vol. 150; p. 1038.
Remedy for diseases of the eye. F. I. Friend. No. 79,486; Sept. 13; Gaz. vol. 158; p. 477.
Remedy for diseases of the lungs. Nature's Creation Co. No. 78,197; May 31; Gaz. vol. 154; p. 1407.
Remedy for diseases of the stomach. S. H. Hall. No. 77,309; Mar. 29; Gaz. vol. 152; p. 1219.
Remedy for dyspepsia, Liquid. J. R. Berger. No. 78,932; July 26; Gaz. vol. 156; p. 1061.
Remedy for eczema. Wal-Talk Medicine Co. No. 76,826; Feb. 15; Gaz. vol. 151; p. 727.
Remedy for eczema, piles, catarrh, &c. F. W. Israel. No. 77,188; Mar. 15; Gaz. vol. 152; p. 729.
Remedy for female complaints. B. Tarshis. No. 78,364; June 7; Gaz. vol. 155; p. 303.
Remedy for female diseases. South Bend Remedy Company. No. 76,556; Jan. 25; Gaz. vol. 150; p. 1038.
Remedy for fits and nervous troubles. Trio Medicine Company. No. 79,536; Sept. 13; Gaz. vol. 158; p. 479.
Remedy for genito-urinary diseases. H. R. Planten. No. 78,022; May 24; Gaz. vol. 154; p. 1104.
Remedy for grippe, colds, fever, and chills. The Bartow Chemical Co. No. 77,860; May 10; Gaz. vol. 154; p. 511.
Remedy for hay-fever. E. P. Miller. No. 77,663; Apr. 26; Gaz. vol. 153; p. 1078.
Remedy for headache and indigestion. M. Cook & Co. No. 76,469; Jan. 18; Gaz. vol. 150; p. 822.
Remedy for headaches. A. Blake. No. 77,442; Apr. 12; Gaz. vol. 153; p. 541.
Remedy for headaches and an anodyne. Eureka Headache Powder Co. No. 77,101; Mar. 8; Gaz. vol. 152; p. 484.
Remedy for headaches, neuralgia, and heartburn. J. Houseweller. No. 79,675; Sept. 27; Gaz. vol. 158; p. 880.
Remedy for hemorrhoids. J. C. Etherton. No. 79,661; Sept. 27; Gaz. vol. 158; p. 879.
Remedy for hemorrhoids. E. Kirchner. No. 79,984; Oct. 25; Gaz. vol. 159; p. 988.
Remedy for hog-cholera. W. Kopisch. No. 78,610; June 28; Gaz. vol. 155; p. 1038.
Remedy for indigestion, dyspepsia, and sour stomach. The Guaranteed Remedies Co. No. 76,830; Feb. 15; Gaz. vol. 151; p. 727.
Remedy for inebriacy. S. C. Sherman. No. 78,913; July 19; Gaz. vol. 156; p. 794.
Remedy for intestinal and fermentative diseases. Fairchild Bros. & Foster. No. 76,911; Feb. 22; Gaz. vol. 151; p. 1010.
Remedy for irregularity of the menses. N. Willhite. No. 80,099; Nov. 1; Gaz. vol. 160; p. 255.
Remedy for kidney diseases. Consumers Service Company. No. 78,164; May 31; Gaz. vol. 154; p. 1406.
Remedy for liver complaints. Southwestern Remedy Company. No. 79,016; July 26; Gaz. vol. 156; p. 1063.
Remedy for local application and inhalation. National Chemical Company. No. 79,687; Sept. 27; Gaz. vol. 158; p. 880.
Remedy for lung diseases. J. P. Smith. No. 80,292; Nov. 29; Gaz. vol. 160; p. 1268.
Remedy for malaria. Sharp & Dohme. No. 79,610; Sept. 20; Gaz. vol. 158; p. 699.
Remedy for malaria, Vegetable. Davis and Lawrence Co. No. 79,652; Sept. 27; Gaz. vol. 158; p. 879.
Remedy for malarial fever and grippe. W. H. Wedertz. No. 79,092; Aug. 2; Gaz. vol. 157; p. 204.
Remedy for nerve diseases. Indiana Pharmaceutical Company. No. 77,732; May 3; Gaz. vol. 154; p. 248.
Remedy for nervous debility. F. Ford. No. 79,268; Aug. 23; Gaz. vol. 157; p. 995.
Remedy for piles. W. L. Kennedy. No. 76,939; Feb. 22; Gaz. vol. 151; p. 1011.
Remedy for piles. R. E. Hardin. No. 79,209; Aug. 16; Gaz. vol. 157; p. 749.
Remedy for piles. J. Elefritz. No. 79,565; Sept. 20; Gaz. vol. 158; p. 697.
Remedy for poison-ivy or poison-oak. Ebersold, Steinmetz & Ebersold. No. 78,596; June 28; Gaz. vol. 155; p. 1038.
Remedy for poison-oak poisoning. E. T. M. Hurlbut. No. 78,715; July 5; Gaz. vol. 156; p. 254.
Remedy for purifying the blood. C. Kunath. No. 78,105; May 31; Gaz. vol. 154; p. 1404.
Remedy for rheumatism. F. J. Fourney. No. 76,358; Jan. 11; Gaz. vol. 150; p. 565.
Remedy for rheumatism. C. W. Miller. No. 78,118; May 31; Gaz. vol. 154; p. 1405.
Remedy for rheumatism. The A. H. Munn Company. No. 78,119; May 31; Gaz. vol. 154; p. 1405.
Remedy for rheumatism. J. R. Lefebvre. No. 78,528; June 21; Gaz. vol. 155; p. 796.
Remedy for rheumatism. E. W. Roesky. No. 79,008; July 26; Gaz. vol. 156; p. 1063
Remedy for rheumatism. P. E. Devine. No. 80,348; Dec. 13; Gaz. vol. 161; p. 525.
Remedy for rheumatism and backache. L. K. Bauman. No. 80,340; Dec. 13; Gaz. vol. 161; p. 525.
Remedy for rheumatism and grippe. J. D. Riedel Aktiengesellschaft. No. 76,952; Mar. 1; Gaz. vol. 152; p. 225.
Remedy for rheumatism, coughs, and stomach troubles. P. Iannace. No. 78,806; July 12; Gaz. vol. 156; p. 534.
Remedy for rheumatism, gout, and lumbago. G. S. Morris & Sons. No. 76,627; Feb. 1; Gaz. vol. 151; p. 190.
Remedy for rheumatisms, &c. A. L. Pasquier. No. 76,551; Jan. 25; Gaz. vol. 150; p. 1038.
Remedy for San Jose scale. W. R. Carbaugh. No. 76,466; Jan. 18; Gaz. vol. 150; p. 822.
Remedy for seasickness. E. R. Isern. No. 79,496; Sept. 13; Gaz. vol. 158; p. 478.
Remedy for skin diseases. W. H. Richardson. No. 76,724; Feb. 8; Gaz. vol. 151; p. 447.
Remedy for stomach troubles. Health Restorer & Preserver Chemical Company. No. 76,936; Feb. 22; Gaz. vol. 151; p. 1011.
Remedy for the diseases of cattle. J. West. No. 79,380; Aug. 30; Gaz. vol. 157; p. 1241.
Remedy for tuberculosis. J. Solberger. No. 79,163; Aug. 9; Gaz. vol. 157; p. 483.
Remedy for white diarrhea, roup, and cholera in fowls. The Hancock Inoculatum Co. No. 77,727; May 3; Gaz. vol. 154; p. 248.
Remedy for whooping-cough. W. C. Jaeger. No. 80,362; Dec. 13; Gaz. vol. 161; p. 525.
Remedy, Headache. D. S. Dunning. No. 76,281; Jan. 4; Gaz. vol. 150; p. 261.
Remedy, Hog and chicken cholera. Morton, Sharp & Beeler. No. 76,817; Feb. 15; Gaz. vol. 151; p. 727.
Remedy, Mange. The Mange Remedy Co. No. 77,819; May 10; Gaz. vol. 154; p. 510.
Remedy, Medicinal. G. H. Gardiner. No. 78,083; May 31; Gaz. vol. 154; p. 1404.
Remedy to reduce fat. H. L. Hull. No. 80,185; Nov. 15; Gaz. vol. 160; p. 769.
Remedy, Veterinary. H. F. Tate. No. 76,823; Feb. 15; Gaz. vol. 151; p. 727.
Remedy, Veterinary. Ellen's New Discovery Company. No. 78,318; June 7; Gaz. vol. 155; p. 301.
Revolvers. Hopkins & Allen Arms Company. No. 78,383; June 7; Gaz. vol. 155; p. 303.
Ribbons. Murphy Grant & Co. No. 77,823; May 10; Gaz. vol. 154; p. 510.
Ribbons. The H. B. Claflin Company. No. 78,688; July 5; Gaz. vol. 156; p. 253.
Ribbons, Silk. J. W. Streeton Company. No. 77,132; Mar. 15; Gaz. vol. 152; p. 727.
Rice. Seaboard Rice Milling Co. No. 77,427; Apr. 5; Gaz. vol. 153; p. 268.
Rice. G. P. Eastman. No. 77,800; May 10; Gaz. vol. 154; p. 509.
Rice. Seaboard Rice Milling Co. Nos. 77,833–5; May 10; Gaz. vol. 154; p. 510.
Rice. R. Goldsmith. No. 79,051; Aug. 2; Gaz. vol. 157; p. 203.
Rice. R. Goldsmith. Nos. 79,205–6; Aug. 16; Gaz. vol. 157; p. 749.
Rice. R. Goldsmith. Nos. 79,272–3; Aug. 23; Gaz. vol. 157; p. 995.
Rice. Orme Rice Packing Company. No. 80,194; Nov. 15; Gaz. vol. 160; p. 769.
Rice, rice-starch, and rice-flour. Erste Triester Reisschäl-Fabriks Actien-Gesellschaft. No. 78,958; July 26; Gaz. vol. 156; p. 1062.
Rifle-sights and parts thereof. Winchester Repeating Arms Co. No. 76,747; Feb. 15; Gaz. vol. 151; p. 725.
Rifles, shotguns, pistols, and revolvers. M. E. Johnson, trustee. Nos. 78,423–4; June 14; Gaz. vol. 155; p. 550.
Rifles, shotguns, pistols, and revolvers. M. E. Johnson, trustee. No. 78,978; July 26; Gaz. vol. 156; p. 1062.
Rings and cuff-buttons. F. D. Healy. No. 78,799; July 12; Gaz. vol. 156; p. 534.
Riveting-machines. The F. B. Shuster Company. Nos. 78,754–7; July 5; Gaz. vol. 156; p. 255.
Rivets. The Bourne-Fuller Company. Nos. 78,306–7; June 7; Gaz. vol. 155; p. 301.
Rolled oats, corn-starch, beans, and rice. John Blaul's Sons Company. No. 78,396; June 14; Gaz. vol. 155; p. 549.
Rompers, blouses, pajamas, and night-robes. Frank-Kline-Stewart Co. No. 79,971; Oct. 25; Gaz. vol. 159; p. 987.
Roofing, Asphalt. Ford Manufacturing Co. No. 78,410; June 14; Gaz. vol. 155; p. 549.
Roofing, Asphalt. Ford Manufacturing Company. No. 78,599; June 28; Gaz. vol. 155; p. 1038.
Roofing, Asphalt. Ford Manufacturing Co. No. 78,701; July 5; Gaz. vol. 156; p. 254.

Alphabetical list of trade-marks—Continued.

Roofing, Composite. J. Casmento. No. 78,861; July 19; Gaz. vol. 156; p. 793.
Roofing, Composition. Dean Lumber Company. No. 79,740; Oct. 4; Gaz. vol. 159; p. 237.
Roofing, Composition. The Cincinnati Sheet Metal & Roofing Company. No. 80,210; Nov. 22; Gaz. vol. 160; p. 1033.
Roofing, Felt. Barrett Manufacturing Company. Nos. 80,456–7; Dec. 27; Gaz. vol. 161; p. 1039.
Roofing material, Felt. Barrett Manufacturing Company. No. 78,929; July 26; Gaz. vol. 156; p. 1061.
Roofing materials, Felt. United Roofing & Manufacturing Company. No. 80,010; Oct. 25; Gaz. vol. 159; p. 988.
Roofing, Prepared. J. A. & W. Bird & Co. No. 77,688; Apr. 26; Gaz. vol. 153; p. 1079.
Roofing, Prepared. J. A. & W. Bird & Co. No. 77,897; May 17; Gaz. vol. 154; p. 831.
Roofing, Ready-to-lay asphalt. Turner Supply Co. No. 79,173; Aug. 9; Gaz. vol. 157; p. 483.
Roofing, sarking, sheathing, and lining felts. D. Anderson & Son. No. 79,097; Aug. 9; Gaz. vol. 157; p. 481.
Roofing-sheets, Bituminous. The Barber Asphalt Paving Company. No. 78,566; June 28; Gaz. vol. 155; p. 1037.
Roofings, Prepared. Key City Roofing Co. No. 76,717; Feb. 8; Gaz. vol. 151; p. 447.
Roofings, Prepared. Ford Manufacturing Company. No. 77,718; May 3; Gaz. vol. 154; p. 247.
Roofings, Rubber. Ford Manufacturing Company. No. 80,275; Nov. 29; Gaz. vol. 160; p. 1267.
Rouge-cloth. Graf Bros. No. 78,793; July 12; Gaz. vol. 156; p. 534.
Rouge, Toilet. The El Perfecto Veda Rose Co. No. 79,825; Oct. 11; Gaz. vol. 159; p. 485.
Rubber and rubber gums. Continental Rubber Company of New York. No. 79,472; Sept. 13; Gaz. vol. 158; p. 477.
Rubber bands. A. W. Faber. No. 79,662; Sept. 27; Gaz. vol. 158; p. 879.
Rubber belting and hose. E. Z. Jefferson. No. 79,216; Aug. 16; Gaz. vol. 157; p. 750.
Rubber belts and rubber hose. Bowers Rubber Works. No. 80,106; Nov. 8; Gaz. vol. 160; p. 489.
Rubber boots and shoes. Northern Shoe Co. No. 78,342; June 7; Gaz. vol. 155; p. 302.
Rubber boots and shoes. Woonsocket Rubber Company. No. 79,022; July 26; Gaz. vol. 156; p. 1063.
Rubber combs. Vulcanized Rubber Co. No. 76,982; Mar. 1; Gaz. vol. 152; p. 226.
Rubber, gutta-percha, and balata. Kautschukgesellschaft Schön & Co. No. 76,625; Feb. 1; Gaz. vol. 151; p. 190.
Rubber hose. Boston Belting Company. No. 76,617; Feb. 1; Gaz. vol. 151; p. 190.
Rubber hose. Peerless Rubber Manufacturing Company. No. 76,943; Feb. 22; Gaz. vol. 151; p. 1011.
Rubber nipples. The Star Rubber Co. No. 80,327; Dec. 6; Gaz. vol. 161; p. 264.
Rubber overshoes. Boston Rubber Shoe Company. No. 78,934; July 26; Gaz. vol. 156; p. 1061.
Rubber packings. La Favorite Rubber Manufacturing Co. No. 77,816; May 10; Gaz. vol. 154; p. 510.
Rubber piston-packing. Bowers Rubber Works. No. 77,789; May 10; Gaz. vol. 154; p. 509.
Rubber quoits and croquet-balls. C. H. Oakley. No. 79,597; Sept. 20; Gaz. vol. 158; p. 698.
Rubber roofing. The Breese Brothers Company. No. 78,308; June 7; Gaz. vol. 155; p. 301.
Rubber roofing. Lehon Company. No. 79,287; Aug. 23; Gaz. vol. 157; p. 996.
Rubber soles and heels. C. H. Oakley. No. 79,596; Sept. 20; Gaz. vol. 158; p. 698.
Rubber sponges. The Hanover Vulcanite Company. No. 77,647; Apr. 26; Gaz. vol. 153; p. 1078.
Rubbers, Fruit-jar. Norvell-Shapleigh Hardware Company. No. 78,437; June 14; Gaz. vol. 155; p. 550.
Rubies and sapphires, Artificial. Wendell and Co. No. 80,163; Nov. 8; Gaz. vol. 160; p. 490.
Ruffles. Mlle. Wolfe Co. No. 80,335; Dec. 6; Gaz. vol. 161; p. 264.
Rugs. Ben Strauss Company. No. 77,610; Apr. 26; Gaz. vol. 153; p. 1077.
Rugs. People's Outfitting Company. No. 78,021; May 24; Gaz. vol. 154; p. 1104.
Rugs. Bigelow Carpet Company. Nos. 78,301–2; June 7; Gaz. vol. 155; p. 301.
Rugs. Bigelow Carpet Company. No. 78,488; June 21; Gaz. vol. 155; p. 795.
Rugs. People's Outfitting Company. Nos. 78,820–1; July 12; Gaz. vol. 156; p. 534.
Rugs. People's Outfitting Company. No. 79,688; Sept. 27; Gaz. vol. 158; p. 880.
Rugs and carpets. M. J. Whittall. No. 78,147; May 31; Gaz. vol. 154; p. 1405.
Rugs and carpets. J. W. Masland. No. 79,920; Oct. 18; Gaz. vol. 159; p. 744.
Rugs, mats, and carpets. McCleary, Wallin & Crouse. No. 78,336; June 7; Gaz. vol. 155; p. 302.
Rust-preventing compound. Charles H. Besly & Company. No. 79,246; Aug. 23; Gaz. vol. 157; p. 995.
Saddlery and harness hardware. J. Dewsbury & Son. No. 80,418; Dec. 20; Gaz. vol. 161; p. 749.
Safes. Howe Scale Company. No. 77,241; Mar. 22; Gaz. vol. 152; p. 954.
Safes. The Mosler Safe Company. No. 80,373; Dec. 13; Gaz. vol. 161; p. 526.
Sales slips and books. Carter-Crume Company. No. 77,184; Mar. 15; Gaz. vol. 152; p. 728.
Salt. N. Ashton and Sons. No. 76,349; Jan. 11; Gaz. vol. 150; p. 565.
Salt. Carey Salt Company. No. 76,467; Jan. 18; Gaz. vol. 150; p. 822.
Salt. Diamond Crystal Salt Co. No. 78,167; May 31; Gaz. vol. 154; p. 1406.
Salt. Morton Salt Company. No. 79,848; Oct. 11; Gaz. vol. 159; p. 486.
Salt. Diamond Crystal Salt Company. No. 80,465; Dec. 27; Gaz. vol. 161; p. 1039.
Salt, baking powder and soda. Gibson Canning Company. No. 78,961; July 26; Gaz. vol. 156; p. 1062.
Salve. R. Staudt. No. 76,557; Jan. 25; Gaz. vol. 150; p. 1038.
Salve. E. A. Urban. No. 76,728; Feb. 8; Gaz. vol. 151; p. 447.
Salve. H. B. Mack. No. 79,135; Aug. 9; Gaz. vol. 157; p. 482.
Salve. J. P. Urben. No. 79,617; Sept. 20; Gaz. vol. 158; p. 699.
Salve. E. H. Lynn, Sr. No. 79,773; Oct. 4; Gaz. vol. 159; p. 238.
Salve, Corn-. C. H. Budde. No. 79,717; Oct. 4; Gaz. vol. 159; p. 237.
Salve for eczema. M. F. Schlesinger. No. 78,738; July 5; Gaz. vol. 156; p. 255.
Salve, Veterinary. A. L. Henley. No. 80,358; Dec. 13; Gaz. vol. 161; p. 525.
Salves. L. Liebel. No. 76,290; Jan. 4; Gaz. vol. 150; p. 261.
Salves. C. A. Thies. No. 76,386; Jan. 11; Gaz. vol. 150; p. 566.
Salves. The Home Supply Co. No. 77,104; Mar. 8; Gaz. vol. 152; p. 484.
Salves. P. Jacobs. No. 77,245; Mar. 22; Gaz. vol. 152; p. 954.
Salves. The Dermato Salve Co. No. 80,111; Nov. 8; Gaz. vol. 160; p. 489.
Salves and healing-oils. F. P. Schmidt & Co. No. 78,647; June 28; Gaz. vol. 155; p. 1039.
Salves and ointments. E. V. Macgill. No. 79,977; Oct. 25; Gaz. vol. 159; p. 987.
Samovars, Alcohol-heated. Landers, Frary & Clark. No. 76,342; Jan. 4; Gaz. vol. 150; p. 263.
Sapphires. J. Heller & Son. No. 76,513; Jan. 25; Gaz. vol. 150; p. 1037.
Sardines. Moos & Co. No. 77,476; Apr. 12; Gaz. vol. 153; p. 542.
Sardines. New Orleans Manufacturers Agency Co. No. 78,341; June 7; Gaz. vol. 155; p. 302.
Sardines in olive-oil, Smoked. The Neuman & Schwiers Co. No. 76,942; Feb. 22; Gaz. vol. 151; p. 1011.
Sardines, Smoked. Moos & Co. No. 77,555; Apr. 19; Gaz. vol. 153; p. 818.
Sash and window frames, Metal. A. Busse. No. 78,583; June 28; Gaz. vol. 155; p. 1037.
Sauce for seasoning foods. Holbrooks Limited. No. 79,578; Sept. 20; Gaz. vol. 158; p. 698.
Sauces and relishes. M. G. Lennox. No. 78,615; June 28; Gaz. vol. 155; p. 1038.
Sausage-casings. S. Oppenheimer & Co. No. 77,880; May 10; Gaz. vol. 154; p. 511.
Saw blades and frames, Hack-. Burroughs Tool Co. No. 79,101; Aug. 9; Gaz. vol. 157; p. 481.
Saws. William Dixon, Incorporated. No. 77,170; Mar. 15; Gaz. vol. 152; p. 728.
Saws. Henry Disston & Sons. No. 78,955; July 26; Gaz. vol. 156; p. 1061.
Saws, Butchers'. J. Mignola, Jr. No. 80,075; Nov. 1; Gaz. vol. 160; p. 254.
Saws, Hack-. West Haven Mfg. Co. No. 78,847; July 12; Gaz. vol. 156; p. 535.
Scale, Device for transferring an object on a. G. L. Lattier. No. 79,842; Oct. 11; Gaz. vol. 159; p. 486.
Scientific instruments. Certain named. Taylor Instrument Companies. No. 79,377; Aug. 30; Gaz. vol. 157; p. 1240.
Scissors, razors, and pocket-knives. Wiebusch & Hilger. No. 79,759; Oct. 4; Gaz. vol. 159; p. 238.
Screw-drivers. Stanley Rule & Level Co. No. 78,360; June 7; Gaz. vol. 155; p. 302.
Seasoning for Welsh rabbits. A. Mederlak. No. 78,193; May 31; Gaz. vol. 154; p. 1407.
Sedative substances. Chemische Fabrik Auf Actien (vorm. E. Schering). No. 76,468; Jan. 18; Gaz. vol. 150; p. 822.
Seed, Bean, pea, field, &c. The Albert Dickinson Company. No. 79,655; Sept. 27; Gaz. vol. 158; p. 879.
Seed, Clover-. George Craver's Sons. No. 77,392; Apr. 5; Gaz. vol. 153; p. 267.
Seed, Clover-. George Craver's Sons. Nos. 77,637–9; Apr. 26; Gaz. vol. 153; p. 1078.
Seed-corn. J. F. Batts. No. 78,930; July 26; Gaz. vol. 156; p. 1061.
Seed-grains, grass and garden seeds. Cargill Elevator Co. Nos. 78,376–7; June 7; Gaz. vol. 155; p. 303.

Seed, Lawn-grass. The J. M. McCullough's Sons Co. Nos. 78,619–20; June 28; Gaz. vol. 155; p. 1038.
Seed, Timothy-. George Craver's Sons. Nos. 77,393–4; Apr. 5; Gaz. vol. 153; pp. 267–8.
Seed, Timothy-. George Craver's Sons. Nos. 77,635–6; Apr. 26; Gaz. vol. 153; p. 1078.
Seeds. J. A. Everitt. No. 77,778; May 3; Gaz. vol. 154; p. 249.
Seeds and seed-grains, Garden and grass. Cargill Elevator Co. No. 78,162; May 31; Gaz. vol. 154; p. 1406.
Seeds, Farm, garden, and flower. Robinson Seed and Plant Company. No. 79,860; Oct. 11; Gaz. vol. 159; p. 486.
Seeds, plants, and bulbs. Dakota Improved Seed Company. No. 77,986; May 24; Gaz. vol. 154; p. 1103.
Serges. Egerton Burnett, Ltd. No. 76,324; Jan. 4; Gaz. vol. 150; p. 262.
Serum, Animal-. Serum-Laboratorium Ruete-Enoch. No. 79,700; Sept. 27; Gaz. vol. 158; p. 880.
Serums, vaccines, and viruses, Certain. H. J. C. Deperdussin. No. 76,933; Feb. 22; Gaz. vol. 151; p. 1011.
Sewing-machines. Davis Sewing Machine Company. No. 76,435; Jan. 18; Gaz. vol. 150; p. 821.
Sewing-machines and attachments. Standard Sewing Machine Company. No. 79,164; Aug. 9; Gaz. vol. 157; p. 483.
Shaft-couplings. Bond Foundry and Machine Company. No. 79,400; Sept. 6; Gaz. vol. 158; p. 223.
Shampoo compound. R. W. Black. No. 77,286; Mar. 29; Gaz. vol. 152; p. 1219.
Shampoo, Dry. The S. C. Randals Company. No. 78,825; July 12; Gaz. vol. 156; p. 535.
Shampoo preparation. M. Sherwin. No. 77,339; Mar. 29; Gaz. vol. 152; p. 1220.
Shampoo preparations and hair-tonics. United Drug Company. No. 77,852; May 10; Gaz. vol. 154; p. 511.
Sharpening-stones and razor-hones. The Deerlick Oil Stone Company. No. 79,325; Aug. 30; Gaz. vol. 157; p. 1239.
Sheeting, Cotton. Grendel Mills. No. 78,433; June 14; Gaz. vol. 155; p. 550.
Sheeting, Cotton. Indiana Cotton Mills. No. 79,213; Aug. 16; Gaz. vol. 157; p. 750.
Sheeting, Waterproof bed-. W. S. Rothband & Co. No. 80,494; Dec. 27; Gaz. vol. 161; p. 1040.
Sheetings and drillings. Exposition Cotton Mills. No. 78,039; May 24; Gaz. vol. 154; p. 1104.
Sheetings and tickings. G. A. Stafford & Co. No. 77,914; May 17; Gaz. vol. 154; p. 831.
Sheetings, Cotton. Quinn-Marshall Co. No. 77,956; May 17; Gaz. vol. 154; p. 832.
Sheetings, sheets, pillow-cases, &c. The New York Mills. No. 76,835; Feb. 15; Gaz. vol. 151; p. 728.
Shelving and filing-cases, Steel. Electric Protection Company. No. 77,801; May 10; Gaz. vol. 154; p. 509.
Sherry. J. Wile Sons & Co. No. 79,876; Oct. 11; Gaz. vol. 159; p. 487.
Shingles. British Columbia Lumber and Shingle Manufacturers. No. 77,447; Apr. 12; Gaz. vol. 153; p. 541.
Shirt-waists. M. H. Chase. No. 79,103; Aug. 9; Gaz. vol. 157; p. 481.
Shirts. Ridley-Williamson-Spain Co. No. 76,302; Jan. 4; Gaz. vol. 150; p. 262.
Shirts. Rauh Bros. & Company. No. 77,330; Mar. 29; Gaz. vol. 152; p. 1220.
Shirts. Crown Overall Manufacturing Co. No. 78,496; June 21; Gaz. vol. 155; p. 795.
Shirts. A. Hayman. No. 78,516; June 21; Gaz. vol. 155; p. 796.
Shirts. Harris-Lipsitz Company. No. 78,878; July 19; Gaz. vol. 156; p. 793.
Shirts and pajamas, Men's and boys'. The Trenton Shirt Manufacturing Co. No. 77,586; Apr. 19; Gaz. vol. 153; p. 819.
Shirts, Dress-. Harris-Lipsitz Company. No. 78,971; July 26; Gaz. vol. 156; p. 1062.
Shirts, Dress and negligée. Elias Bros. & Co. No. 78,074; May 31; Gaz. vol. 154; p. 1403.
Shirts, Negligée and work. Yankee Shirt Co. No. 78,153; May 31; Gaz. vol. 154; p. 1406.
Shirts, Outer. Pittsburg Knitting Co. No. 76,975; Mar. 1; Gaz. vol. 152; p. 225.
Shirts, overalls, and work-jackets, Work-. Reliance Manufacturing Company. No. 78,205; May 31; Gaz. vol. 154; p. 1407.
Shirts, overalls, jackets, and jumpers. The Ohio Garment Company. No. 79,228; Aug. 16; Gaz. vol. 157; p. 750.
Shirts, Work-. Harris-Lipsitz Company. No. 79,280; Aug. 23; Gaz. vol. 157; p. 996.
Shoe and leather dressing. Lone Star Blacking & Mfg. Co. No. 78,255; May 31; Gaz. vol. 154; p. 1408.
Shoe-dressing. E. S. Frisbie. No. 77,113; Mar. 8; Gaz. vol. 152; p. 485.
Shoe-insoles. J. Askins. No. 78,927; July 26; Gaz. vol. 156; p. 1061.
Shoe-polish. H. Wonderlich. No. 76,411; Jan. 11; Gaz. vol. 150; p. 566.
Shoe-polish. J. E. Peterson. No. 80,147; Nov. 8; Gaz. vol. 160; p. 490.
Shoes. Engel-Cone Shoe Company. No. 76,505; Jan. 25; Gaz. vol. 150; p. 1037.
Shoes. The Tappan Shoe Manufacturing Company. No. 77,847; May 10; Gaz. vol. 154; p. 511.
Shoes. Truitt Bros. No. 79,945; Oct. 18; Gaz. vol. 159; p. 744.
Shoes. S. B. Foot & Co. No. 80,047; Nov. 1; Gaz. vol. 160; p. 254.
Shoes and slippers. J. P. Grosvenor. No. 78,707; July 5; Gaz. vol. 156; p. 254.
Shoes and slippers. Daniel Green Felt Shoe Company. No. 80,312; Dec. 6; Gaz. vol. 161; p. 263.
Shoes and slippers, Leather. A. Newman. No. 78,122; May 31; Gaz. vol. 154; p. 1405.
Shoes, hats, outer and under waists, and hosiery. Roberts, Johnson & Rand Shoe Company. No. 80,197; Nov. 15; Gaz. vol. 160; p. 770.
Shoes, Leather. J. P. Harrington. No. 76,441; Jan. 18; Gaz. vol. 150; p. 821.
Shoes, Leather. R. Oppenheim. No. 76,720; Feb. 15; Gaz. vol. 151; p. 727.
Shoes, Leather. S. Frazin. No. 76,811; Feb. 15; Gaz. vol. 151; p. 727.
Shoes, Leather. Hamburger Bros. No. 78,602; June 28; Gaz. vol. 155; p. 1038.
Shoes, Leather. A. Schwalbe. No. 79,699; Sept. 27; Gaz. vol. 158; p. 880.
Shoes, Leather. The McDonald & Kiley Company. No. 80,140; Nov. 8; Gaz. vol. 160; p. 490.
Shoes, Leather. The Andrews Shoe Company. No. 80,261; Nov. 29; Gaz. vol. 160; p. 1267.
Shoes, Leather. S. Bearman. No. 80,401; Dec. 20; Gaz. vol. 161; p. 749.
Shoes, Leather, canvas, and cloth. Brown Shoe Company. No. 76,960; Mar. 1; Gaz. vol. 152; p. 225.
Shovels, spades, and scoops. Baldwin Forging & Tool Company. No. 78,565; June 28; Gaz. vol. 155; p. 1037.
Shovels, spades, and scoops. Supplee Hardware Company. No. 79,943; Oct. 18; Gaz. vol. 159; p. 744.
Show-cases, Glass. The Diamond Show Case Company. Nos. 79,900–1; Oct. 18; Gaz. vol. 159; p. 743.
Shoyu or soy. S. Moki. No. 79,439; Sept. 6; Gaz. vol. 158; p. 224.
Shrimps, Fresh California. I. D. Magnes. No. 79,068; Aug. 2; Gaz. vol. 157; p. 204.
Shutter-fasteners. G. F. S. Zimmerman & Company. No. 78,221; May 31; Gaz. vol. 154; p. 1407.
Sifters, Ash-. M. Froesé. No. 77,532; Apr. 19; Gaz. vol. 153; p. 817.
Sifters, Ash-. J. S. Schaeffer. No. 79,526; Sept. 13; Gaz. vol. 158; p. 479.
Signal horns and alarms. Lovell-McConnell Manufacturing Company. No. 80,319; Dec. 6; Gaz. vol. 161; p. 263.
Signs. J. E. Hood & Co. Nos. 77,315–16; Mar. 29; Gaz. vol. 152; p. 1220.
Signs. J. E. Hood & Co. No. 77,373; Apr. 5; Gaz. vol. 153; p. 267.
Signs. R. R. Hammer. No. 80,421; Dec. 20; Gaz. vol. 161; p. 749.
Signs, Advertising-. Ingram-Richardson Manufacturing Company. No. 78,975; July 26; Gaz. vol. 156; p. 1062.
Silica, Articles of fused. The Thermal Syndicate. No. 78,838; July 12; Gaz. vol. 156; p. 535.
Silk and cotton piece goods. Rogers & Thompson. Nos. 79,368–9; Aug. 30; Gaz. vol. 157; p. 1240.
Silk and silk-mixed piece goods. Susquehanna Silk Mills. No. 76,895; Feb. 22; Gaz. vol. 151; p. 1010.
Silk and silk-mixed piece goods. Susquehanna Silk Mills. Nos. 77,582–3; Apr. 19; Gaz. vol. 153; p. 819.
Silk and wool mixed piece goods. T. Michau & Co. No. 79,507; Sept. 13; Gaz. vol. 158; p. 478.
Silk, cotton, and silk and cotton piece goods. Rogers & Thompson. No. 76,772; Feb. 15; Gaz. vol. 151; p. 726.
Silk in the piece. Williams Silk M'f'g Co. No. 76,422; Jan. 11; Gaz. vol. 150; p. 567.
Silk netting in the piece. Bamberg & Risser. No. 79,886; Oct. 18; Gaz. vol. 159; p. 743.
Silk piece fabrics. Atuyer, Bianchini, Ferièr & Cie. No. 77,786; May 10; Gaz. vol. 154; p. 509.
Silk piece goods. B. Altman & Co. No. 76,750; Feb. 15; Gaz. vol. 151; p. 725.
Silk piece goods. Rogers & Thompson. No. 77,381; Apr. 5; Gaz. vol. 153; p. 267.
Silk piece goods. Ben Strauss Company. No. 77,614; Apr. 26; Gaz. vol. 153; p. 1077.
Silk piece goods. Belding Bros. & Company. No. 77,981; May 24; Gaz. vol. 154; p. 1103.
Silk piece goods. Atuyer, Bianchini, Férier & Co. Nos. 78,224–5; May 31; Gaz. vol. 154; p. 1408.
Silk piece goods. M. C. Migel & Company. No. 78,890; July 19; Gaz. vol. 156; p. 794.
Silk piece goods. Rogers & Thompson. No. 79,786; Oct. 4; Gaz. vol. 159; p. 239.
Silk piece goods, Broad-. Duplan Silk Co. No. 78,072; May 31; Gaz. vol. 154; p. 1403.
Silk, Spool and skein. The Brainerd and Armstrong Company. No. 78,159; May 31; Gaz. vol. 154; p. 1406.
Silver-plated flat, hollow, and table ware. Oneida Community. No. 76,518; Jan. 25; Gaz. vol. 150; p. 1037.
Silver-plated flat ware and hollow ware. International Silver Company. No. 77,810; May 10; Gaz. vol. 154; p. 509.

Alphabetical list of trade-marks—Continued.

Silver-plated tableware. C. F. Adams Company. No. 78,051; May 31; Gaz. vol. 154; p. 1403.
Silver-plated ware. Wm. A. Rogers, Limited. No. 78,642; June 28; Gaz. vol. 155; p. 1039.
Silver-plated ware comprising flat and hollow ware and cutlery. W. A. Rogers. No. 77,598; Apr. 19; Gaz. vol. 153; p. 819.
Silver-plated ware, Flat and hollow. W. A. Rogers. No. 77,597; Apr. 19; Gaz. vol. 153; p. 819.
Skins and furs. A. Hollander & Son. No. 78,518; June 21; Gaz. vol. 155; p. 796.
Skins, Chamois-. McKesson & Robbins. No. 76,548; Jan. 25; Gaz. vol. 150; p. 1038.
Skins, Chamois-. Black Horn Leather Co. No. 77,034; Mar. 1; Gaz. vol. 152; p. 227.
Skins, Chamois-. McKesson & Robbins. No. 78,187; May 31; Gaz. vol. 154; p. 1406.
Skins for fur garments, Dressed hare and rabbit. Société en nom collectif Dolat et Cie. No. 79,014; July 26; Gaz. vol. 156; p. 1063.
Skins, Hare and rabbit. C. Déon. No. 80,041; Nov. 1; Gaz. vol. 160; p. 253.
Skins to be used for fur goods. Société Anonyme des Anciens Etablissements J. Lafrique. No. 78,742; July 5; Gaz. vol. 156; p. 255.
Skirts, Dress-. Gem Petticoat Co. No. 76,283; Jan. 4; Gaz. vol. 150; p. 261.
Skirts, Dress-. S. Shapiro. No. 78,136; May 31; Gaz. vol. 154; p. 1405.
Skirts, Women's dress-. Nussbaum-Goldsmith Co. No. 79,361; Aug. 30; Gaz. vol. 157; p. 1240.
Skylights. Schalkenbach and Budke. No. 78,737; July 5; Gaz. vol. 156; p. 255.
Slate, Structural. Pennsylvania Structural Slate Company. No. 77,566; Apr. 19; Gaz. vol. 153; p. 818.
Smelling-salts, toilet preparations, and perfumes. Finlay Dicks & Co. No. 79,569; Sept. 20; Gaz. vol. 158; p. 697.
Smoke-consuming apparatus. S. O. Cowper-Coles. No. 77,299; Mar. 29; Gaz. vol. 152; p. 1219.
Snuff. A. Cusimano & Co. No. 78,777; July 12; Gaz. vol. 156; p. 533.
Soap. James S. Kirk & Company. No. 76,449; Jan. 18; Gaz. vol. 150; p. 821.
Soap. H. T. Cottam & Co. No. 76,759; Feb. 15; Gaz. vol. 151; p. 725.
Soap. Lautz Bros. & Co. No. 77,321; Mar. 29; Gaz. vol. 152; p. 1220.
Soap. The Hygienic Products Company. No. 77,465; Apr. 12; Gaz. vol. 153; p. 542.
Soap. The Globe Soap Company. Nos. 77,640–1; Apr. 26; Gaz. vol. 153; p. 1078.
Soap. H. Amshoff. No. 77,696; May 3; Gaz. vol. 154; p. 247.
Soap. Granulator Soap Company. No. 77,806; May 10; Gaz. vol. 154; p. 509.
Soap. W. and F. Walker Limited. No. 78,031; May 24; Gaz. vol. 154; p. 1104.
Soap. The J. B. Williams Company. No. 78,032; May 24; Gaz. vol. 154; p. 1104.
Soap. The J. P. Davies Company. No. 78,069; May 31; Gaz. vol. 154; p. 1403.
Soap. Lautz Bros. & Co. No. 78,384; June 7; Gaz. vol. 155; p. 303.
Soap. The J. B. Williams Company. No. 78,475; June 14; Gaz. vol. 155; p. 551.
Soap. Lautz Bros. & Co. Nos. 78,523–7; June 21; Gaz. vol. 155; p. 796.
Soap. W. F. Helmer. No. 78,604; June 28; Gaz. vol. 155; p. 1038.
Soap. Lautz Bros. & Co. No. 78,614; June 28; Gaz. vol. 155; p. 1038.
Soap. Philo Hay Specialties Co. No. 78,631; June 28; Gaz. vol. 155; p. 1039.
Soap. Lautz Bros. & Co. No. 78,718; July 12; Gaz. vol. 156; p. 254.
Soap. Lautz Bros. & Co. No. 78,807; July 12; Gaz. vol. 156; p. 534.
Soap. W. T. Grosse. No. 78,965; July 26; Gaz. vol. 156; p. 1062.
Soap. K. A. Lingner. No. 79,133; Aug. 9; Gaz. vol. 157; p. 482.
Soap. W. C. Hathaway. No. 79,281; Aug. 23; Gaz. vol. 157; p. 996.
Soap. Barclay & Barclay. No. 79,320; Aug. 30; Gaz. vol. 157; p. 1239.
Soap. Puritan Soap Company. No. 79,365; Aug. 30; Gaz. vol. 157; p. 1240.
Soap. B. T. Babbitt. No. 79,390; Sept. 6; Gaz. vol. 158; p. 223.
Soap. Francis H. Leggett & Company. No. 79,430; Sept. 6; Gaz. vol. 158; p. 224.
Soap. Lehn & Fink. No. 79,431; Sept. 6; Gaz. vol. 158; p. 224.
Soap. Aquidneck Manufacturing Co. No. 79,639; Sept. 27; Gaz. vol. 158; p. 879.
Soap. The Burckhardt Company. No. 79,647; Sept. 27; Gaz. vol. 158; p. 879.
Soap. Hopewell Brothers. No. 79,673; Sept. 27; Gaz. vol. 158; p. 880.
Soap. Barclay & Barclay. No. 80,022; Nov. 1; Gaz. vol. 160; p. 253.
Soap. Armstrong Packing Company. No. 80,263; Nov. 29; Gaz. vol. 160; p. 1267.
Soap. The Maude Odell Company. No. 80,289; Nov. 29; Gaz. vol. 160; p. 1267.
Soap. The Burckhardt Company. No. 80,303; Dec. 6; Gaz. vol. 161; p. 263.
Soap. The M. & J. Schaible Company. No. 80,325; Dec. 6; Gaz. vol. 161; p. 263.
Soap. The N. K. Fairbank Company. No. 80,350; Dec. 13; Gaz. vol. 161; p. 525.
Soap. The Globe Soap Company. No. 80,353; Dec. 13; Gaz. vol. 161; p. 525.
Soap. The Globe Soap Company. Nos. 80,419–20; Dec. 20; Gaz. vol. 161; p. 749.
Soap and cleaning-powder, Scouring-. The Holbrook Mfg. Co. No. 76,622; Feb. 1; Gaz. vol. 151; p. 190.
Soap and paste. F. C. Russell. No. 80,378; Dec. 13; Gaz. vol. 161; p. 526.
Soap and scouring and washing powders. G. A. Mavon. No. 76,763; Feb. 15; Gaz. vol. 151; p. 725.
Soap and soap powders. Roach Brothers. No. 77,759; May 3; Gaz. vol. 154; p. 248.
Soap and washing powder. Hayes & Willrich. No. 77,648; Apr. 26; Gaz. vol. 153; p. 1078.
Soap and washing powder. Grossfeld and Roe Company. No. 78,851; July 12; Gaz. vol. 156; p. 535.
Soap, Aseptic. Dickinson Drug Company. No. 80,349; Dec. 13; Gaz. vol. 161; p. 525.
Soap for tanners' use. F. S. Walton Company. No. 76,415; Jan. 11; Gaz. vol. 150; p. 567.
Soap holding and delivering devices. Granulator Soap Company. No. 77,129; Mar. 15; Gaz. vol. 152; p. 727.
Soap, Laundry. Michigan Soap Works. No. 77,176; Mar. 15; Gaz. vol. 152; p. 728.
Soap powder. Arabol M'f'g. Co. No. 76,388; Jan. 11; Gaz. vol. 150; p. 566.
Soap powder. C. T. Perry & Co. No. 78,735; July 5; Gaz. vol. 156; p. 255.
Soap, Semiliquid. Rexine Company. No. 77,045; Mar. 1; Gaz. vol. 152; p. 227.
Soap, Toilet. Lanman & Kemp. No. 78,852; July 12; Gaz. vol. 156; p. 535.
Soaps. L. T. Piver & Cie. No. 77,265; Mar. 22; Gaz. vol. 152; p. 955.
Soaps. Royal Solvent Company. No. 77,267; Mar. 22; Gaz. vol. 152; p. 955.
Soaps. K. Hudetz & Cie. No. 77,464; Apr. 12; Gaz. vol. 153; p. 542.
Soaps. F. C. Calvert & Co. No. 77,702; May 3; Gaz. vol. 154; p. 247.
Soaps. Colgate & Company. No. 78,228; May 31; Gaz. vol. 154; p. 1408.
Soaps and cleaning-powders. The Hunnewell Soap Co. No. 77,107; Mar. 8; Gaz. vol. 152; p. 484.
Soaps, Laundry. La France Manufacturing Company. No. 77,042; Mar. 1; Gaz. vol. 152; p. 227.
Soaps, Medicinal. P. Werner. No. 78,289; May 31; Gaz. vol. 154; p. 1409.
Soaps, Perfumed. Bayley & Co. No. 79,715; Oct. 4; Gaz. vol. 159; p. 237.
Soaps, Shaving-. The Kells Company. No. 80,127; Nov. 8; Gaz. vol. 160; p. 489.
Soda, baking-powder, and laundry starch, Cooking-. White, Wilson, Drew Company. No. 80,164; Nov. 8; Gaz. vol. 160; p. 490.
Soda, bluing, castor-oil, and quinin, Baking-. Stroud & Fletcher. No. 77,680; Apr. 26; Gaz. vol. 153; p. 1079.
Soda, saleratus, and baking-powder, Baking-. Church & Dwight Company. No. 76,711; Feb. 8; Gaz. vol. 151; p. 447.
Soda, Silicate of. Philadelphia Quartz Company. Nos. 79,518–19; Sept. 13; Gaz. vol. 158; p. 478.
Soda, Washing-. Church & Dwight Co. No. 78,163; May 31; Gaz. vol. 154; p. 1406.
Sodium phosphate. The Keystone Chemical Manufacturing Company of New Jersey. No. 78,010; May 24; Gaz. vol. 154; p. 1104.
Soldering fluid. M-Green-Frevert Co. No. 78,705; July 5; Gaz. vol. 156; p. 254.
Soldering-fluid compounds. H. L. Hubbard. No. 80,124; Nov. 8; Gaz. vol. 160; p. 489.
Soldering-fluxes. Gesellschaft m. b. H. Classen & Co. No. 76,472; Jan. 18; Gaz. vol. 150; p. 822.
Soup-powders. Chivers & Sons. No. 77,516; Apr. 19; Gaz. vol. 153; p. 817.
Soup, Turtle-. Turtle Cup Limited. No. 79,243; Aug. 16; Gaz. vol. 157; p. 750.
Soy and sauce, Japanese. Nippon Shoyu Jozo Kabushiki Kaisha. Nos. 77,557–8; Apr. 19; Gaz. vol. 153; p. 818.
Spark-plugs. Auto Specialties Mfg. Co. No. 77,893; May 17; Gaz. vol. 154; p. 831.
Spark-plugs and spark-plug protectors. A. W. Houghton. No. 78,882; July 19; Gaz. vol. 156; p. 793.
Spelter. Société Anonyme des Mines et Fonderies de Zinc de la Vieille Montagne. No. 79,305; Aug. 23; Gaz. vol. 157; p. 996.
Spices, flavoring extracts, and bird-seed. Closset & Devers. No. 79,422; Sept. 6; Gaz. vol. 158; p. 224.

Alphabetical list of trade-marks—Continued.

Spices, flavoring extracts, cocoa, tea, and coffee. The American Pure Coffee and Spice Company. No. 80,337; Dec. 13; Gaz. vol. 161; p. 525.
Spool-silk and mercerized thread. Peerless Spool Silk Co. No. 78,541; June 21; Gaz. vol. 155; p. 796.
Sporting goods, Certain. Wright & Ditson. No. 76,336; Jan. 4; Gaz. vol. 150; p. 263.
Sporting goods, Certain. Norvell-Shapleigh Hardware Company. No. 77,949; May 17; Gaz. vol. 154; p. 832.
Sporting goods, Certain. Slazenger & Sons. No. 79,865; Oct. 11; Gaz. vol. 159; p. 486.
Sprayers, Vegetable and fruit. Champion Potato Machinery Co. No. 76,272; Jan. 4; Gaz. vol. 150; p. 261.
Squares and wing-dividers. Norvell-Shapleigh Hardware Company. No. 77,751; May 3; Gaz. vol. 154; p. 248.
Stackers, Hay-. Dain Manufacturing Company of Iowa. No. 79,898; Oct. 18; Gaz. vol. 159; p. 743.
Stains from fabrics, Preparation for removing. J. A. Macquarrie. No. 79,136; Aug. 9; Gaz. vol. 157; p. 482.
Stamps, Engraved steel. New York Stencil Works. No. 76,874; Feb. 22; Gaz. vol. 151; p. 1009.
Stamps, Engraved steel letter, number, and character. New York Stencil Works. No. 77,005; Mar. 1; Gaz. vol. 152; p. 226.
Stamps, Trading-. Sales Company of America. No. 78,450; June 14; Gaz. vol. 155; p. 550.
Starch. Corn Products Refining Company. No. 79,261; Aug. 23; Gaz. vol. 157; p. 995.
Starch, Laundry. Corn Products Refining Company. No. 78,067; May 31; Gaz. vol. 154; p. 1403.
Starch, Laundry. The Charles B. Smith Company. No. 78,868; July 19; Gaz. vol. 156; p. 793.
Starch, Laundry. Corn Products Refining Company. No. 80,462; Dec. 27; Gaz. vol. 161; p. 1039.
Starches and dextrins. Corn Products Refining Company. No. 79,324; Aug. 30; Gaz. vol. 157; p. 1239.
Stationery and paper, Certain. M. Goldenberg. No. 78,041; May 24; Gaz. vol. 154; p. 1105.
Stationery and toilet articles, Certain. Baltimore Bargain House. No. 79,395; Sept. 6; Gaz. vol. 158; p. 223.
Stationery, Certain. J. W. Guttknecht. No. 78,511; June 21; Gaz. vol. 155; p. 796.
Stationery, Certain articles of. Eagle Pencil Company. No. 76,908; Feb. 22; Gaz. vol. 151; p. 1010.
Stationery, Certain articles of. L. Leitz. No. 77,654; Apr. 26; Gaz. vol. 153; p. 1078.
Steam specialties, Certain. The Strong, Carlisle & Hammond Co. No. 76,802; Feb. 15; Gaz. vol. 151; p. 727.
Steam-rollers. Iroquois Iron Works. No. 76,448; Jan. 18; Gaz. vol. 150; p. 821.
Steel. J. J. Saville & Co. No. 76,398; Jan. 11; Gaz. vol. 150; p. 566.
Steel. Henry Rossell & Co. No. 76,999; Mar. 1; Gaz. vol. 152; p. 226.
Steel. J. J. Saville & Company. No. 77,401; Apr. 5; Gaz. vol. 153; p. 268.
Steel. J. J. Saville & Company. No. 77,420; Apr. 5; Gaz. vol. 153; p. 268.
Steel. J. J. Saville & Company. No. 77,885; May 10; Gaz. vol. 154; p. 512.
Steel. Wheelock, Lovejoy & Company. No. 78,848; July 12; Gaz. vol. 156; p. 535.
Steel and forgings. Cambria Steel Company. Nos. 78,683–6; July 5; Gaz. vol. 156; p. 253.
Steel and iron. Cadwell and Parrock. No. 78,680; July 5; Gaz. vol. 156; p. 253.
Steel balls. E. G. Hoffmann. No. 78,605; June 28; Gaz. vol. 155; p. 1038.
Steel, Bar-. Swedish Iron & Steel Corporation. No. 78,551; June 21; Gaz. vol. 155; p. 797.
Steel, Bar-. Swedish Iron & Steel Corporation. No. 79,612; Sept. 20; Gaz. vol. 158; p. 699.
Steel, Crushed. Pittsburgh Crushed Steel Company. No. 77,486; Apr. 12; Gaz. vol. 153; p. 542.
Steel plates, bars, and shapes, Laminated. Crucible Steel Company of America. No. 76,414; Jan. 11; Gaz. vol. 150; p. 567.
Stereopticons, projectors, magic lanterns, &c. Buckeye Stereopticon Co. Nos. 76,986–8; Mar. 1; Gaz. vol. 152; p. 226.
Stereopticons, projectors, magic lanterns, and slides. Buckeye Stereopticon Co. No. 77,221; Mar. 22; Gaz. vol. 152; p. 953.
Stocking-supporters. West Loop Garter Co. No. 76,645; Feb. 8; Gaz. vol. 151; p. 445.
Stockings. Maxwell-McClure-Fitts Dry Goods Co. No. 79,291; Aug. 23; Gaz. vol. 157; p. 996.
Stockings, Boys' and girls'. Central Knitting Company. No. 79,961; Oct. 25; Gaz. vol. 159; p. 987.
Stogies and cigars. Penn Cigar Co. No. 78,819; July 12; Gaz. vol. 156; p. 534.
Stogies and cigars. M. Enelow. No. 79,742; Oct. 4; Gaz. vol. 159; p. 237.
Stone and composition for making the same, Artificial. R. Taylor. No. 79,944; Oct. 18; Gaz. vol. 159; p. 744.
Stone, Artificial. E. R. Shipp. No. 79,304; Aug. 23; Gaz. vol. 157; p. 996.
Stone, Artificial. The Dayton Art Marble and Construction Co. No. 79,474; Sept. 13; Gaz. vol. 158; p. 477.
Stones and razor-hones, Certain kinds of. The Deerlick Oil Stone Company. No. 80,220; Nov. 22; Gaz. vol. 160; p. 1033.
Stoneware, crockery, and earthenware. Western Stoneware Co. No. 77,411; Apr. 5; Gaz. vol. 153; p. 268.
Stove and metal polish. M. H. Schoenfield. No. 77,575; Apr. 19; Gaz. vol. 153; p. 819.
Stove-polish. Home Coming Stove Polish Co. No. 77,103; Mar. 8; Gaz. vol. 152; p. 484.
Stoves. The Estate Stove Co. No. 77,715; May 3; Gaz. vol. 154; p. 247.
Stoves. The Estate Stove Co. No. 80,273; Nov. 29; Gaz. vol. 160; p. 1267.
Stoves and heating apparatus, Certain. Southern Queen Range Mfg. Co. No. 76,312; Jan. 4; Gaz. vol. 150; p. 262.
Stoves and heating apparatus, Certain. Wolterstorff-Haskell Range & Furnace Company. No. 77,857; May 10; Gaz. vol. 154; p. 511.
Stoves and parts thereof, radiators, &c. E. C. Fox. No. 79,269; Aug. 23; Gaz. vol. 157; p. 995.
Stoves and portable ranges, Cooking-. Liberty Stove Company. No. 77,738; May 3; Gaz. vol. 154; p. 248.
Stoves and ranges. A. J. Lindemann & Hoverson Co. No. 76,613; Feb. 1; Gaz. vol. 151; p. 190.
Stoves and ranges. A. Weiskittel & Son Company. No. 78,560; June 21; Gaz. vol. 155; p. 797.
Stoves and ranges. A. J. Lindemann & Hoverson Co. No. 79,288; Aug. 23; Gaz. vol. 157; p. 996.
Stoves and ranges and parts thereof. Indiana Stove Works. No. 79,129; Aug. 9; Gaz. vol. 157; p. 482.
Stoves and ranges, Cooking. Calvert Stove and Heating Company. No. 78,682; July 5; Gaz. vol. 156; p. 253.
Stoves and ranges for cooking and heating. The Union Stove Works. No. 79,240; Aug. 16; Gaz. vol. 157; p. 750.
Stoves and ranges, Heating and cooking. A. T. Nye and Son Company. No. 79,147; Aug. 9; Gaz. vol. 157; p. 482.
Stoves, Cooking, heating, and gas. F. A. Klaine. No. 76,719; Feb. 8; Gaz. vol. 151; p. 447.
Stoves, furnaces, burners, and blowpipes, Gas. National Economic Gas Blast Co. No. 76,403; Jan. 11; Gaz. vol. 150; p. 566.
Stoves, Gas, oil, alcohol, and coal. Grinberg Brothers. No. 78,510; June 21; Gaz. vol. 155; p. 796.
Stoves, Heating-. Stamford Foundry Company. No. 76,893; Feb. 22; Gaz. vol. 151; p. 1010.
Stoves, ranges, and furnaces. Rathbone, Sard & Co. Nos. 78,905–6; July 19; Gaz. vol. 156; p. 794.
Stoves, ranges, and furnaces. Floyd-Wells Company. Nos. 79,747–8; Oct. 4; Gaz. vol. 159; p. 238.
Stoves, ranges, furnaces, &c. The White-Warner Co. No. 80,451; Dec. 20; Gaz. vol. 161; p. 750.
Stoves, ranges, furnaces, heating-boilers, &c. Walker and Pratt Manufacturing Company. No. 79,311; Aug. 23; Gaz. vol. 157; p. 997.
Sugar and sugar-syrup. Chemische Fabrik Reisholz G. m. b. H. No. 79,819; Oct. 11; Gaz. vol. 159; p. 485.
Sugar, Imitation maple-. L. Conley. No. 76,525; Jan. 25; Gaz. vol. 150; p. 1037.
Sugar wafers. Maryland Biscuit Co. No. 78,430; June 14; Gaz. vol. 155; p. 550.
Suits and overcoats, Men's and boys'. The Fair. No. 76,955; Mar. 1; Gaz. vol. 152; p. 225.
Suits and overcoats, Men's and boys'. Kahn Tailoring Company. No. 79,497; Sept. 13; Gaz. vol. 158; p. 478.
Suits and rompers, Children's outer. Ely & Walker Dry Goods Co. No. 78,697; July 5; Gaz. vol. 156; p. 253.
Suits, Boys' and children's outer wash-. A. L. Stone & Son. No. 77,678; Apr. 26; Gaz. vol. 153; p. 1079.
Suits, dresses, and coats. C. Isaacs & Co. No. 76,976; Mar. 1; Gaz. vol. 152; p. 225.
Suits, Men's, ladies', and boys'. M. Kinkelstein. No. 76,967; Mar. 1; Gaz. vol. 152; p. 225.
Sunbonnets, doll-bonnets, aprons, and petticoats. American Sun Bonnet Company. No. 76,579; Feb. 1; Gaz. vol. 151; p. 189.
Supporters, ladies' belts, and dress-shields, Certain. E. E. Clymer. No. 77,368; Apr. 5; Gaz. vol. 153; p. 267.
Suppositories. Morgenstern & Company. No. 76,953; Mar. 1; Gaz. vol. 152; p. 225.
Suppositories, Vaginal. A. A. Wohl. No. 79,244; Aug. 16; Gaz. vol. 157; p. 750.
Suppository, Protective and antiseptic. D. E. Mills. No. 77,359; Mar. 29; Gaz. vol. 152; p. 1221.
Surgical appliances, Certain. C. Cluthe. No. 76,713; Feb. 8; Gaz. vol. 151; p. 447.
Surgical appliances, Certain. H. G. Ballou. No. 77,439; Apr. 12; Gaz. vol. 153; p. 541.
Surgical, dental, and veterinary instruments. George P. Pilling & Son Co. No. 80,148; Nov. 8; Gaz. vol. 160; p. 490.
Surgical instruments, Certain. F. A. Koch & Co. No. 77,304; Mar. 29; Gaz. vol. 152; p. 1219.
Suspenders. T. J. Corcoran. No. 77,517; Apr. 19; Gaz. vol. 153; p. 817.
Suspenders. M. & S. Peller. No. 77,565; Apr. 19; Gaz. vol. 153; p. 818.
Suspenders. L. Oppenheimer's Sons. No. 78,897; July 19; Gaz. vol. 156; p. 794.

Alphabetical list of trade-marks—Continued.

Suspenders and armbands. Atwood Suspender Co. No. 76,426; Jan. 18; Gaz. vol. 150; p. 821.
Suspenders and garters. The C. A. Edgarton Mfg. Co. No. 77,512; Apr. 19; Gaz. vol. 153; p. 817.
Suspenders and garters. C. A. Edgarton Mfg. Co. No. 79,111; Aug. 9; Gaz. vol. 157; p. 481.
Suspenders and garters. The C. A. Edgarton Mfg. Co. No. 79,563; Sept. 20; Gaz. vol. 158; p. 697.
Suspenders and men's garters and belts. M. & S. Peller. No. 77,828; May 10; Gaz. vol. 154; p. 510.
Suspenders, belts, and embroideries. Rouse, Hempstone & Co. No. 79,605; Sept. 20; Gaz. vol. 158; p. 698.
Suspenders, shoulder-braces, garters, &c. Harris Suspender Co. No. 76,668; Feb. 8; Gaz. vol. 151; p. 446.
Suspensories, trusses, and bandages. Meyers Manufacturing Company. No. 79,777; Oct. 4; Gaz. vol. 159; p. 238.
Sweater-coats and knitted jackets. Neustadter Brothers. No. 76,295; Jan. 4; Gaz. vol. 150; p. 261.
Sweaters, Coat. H. Feuerstein. No. 78,321; June 7; Gaz. vol. 155; p. 301.
Sweeping compound. E. K. Brennaaun. No. 78,491; June 21; Gaz. vol. 155; p. 795.
Sweeping compound. J. W. Putnam. No. 78,903; July 19; Gaz. vol. 156; p. 794.
Sweeping compound. Janitors & Porters Supply Company. No. 79,426; Sept. 6; Gaz. vol. 158; p. 224.
Sweeping compounds. Wonder Specialty Company. No. 76,423; Jan. 11; Gaz. vol. 150; p. 567.
Sweeping compounds. Continental Mfg. Co. No. 76,755; Feb. 15; Gaz. vol. 151; p. 725.
Swings. Florida Chair Factory. No. 79,332; Aug. 30; Gaz. vol. 157; p. 1239.
Syringes. Tyrrell's Hygienic Institute. No. 80,254; Nov. 22; Gaz. vol. 160; p. 1034.
Syrup, Cane and corn compound. Alabama-Georgia Syrup Co. No. 76,348; Jan. 11; Gaz. vol. 150; p. 565.
Syrup, Compound of corn and sugar. Corn Products Refining Company. No. 77,204; Mar. 22; Gaz. vol. 152; p. 953.
Syrup for a soda-fountain drink. P. M. Harris. No. 79,423; Sept. 6; Gaz. vol. 158; p. 224.
Syrup for non-alcoholic beverages. Foote & Jenks. No. 79,749; Oct. 4; Gaz. vol. 159; p. 238.
Syrup, Maple-. Scudder Syrup Co. No. 76,345; Jan. 4; Gaz. vol. 150; p. 263.
Syrup of senna and pepsin. First Texas Chemical Manufacturing Co. No. 79,203; Aug. 16; Gaz. vol. 157; p. 749.
Syrup, Refiners' and corn. Pacific Coast Syrup Co. No. 76,530; Jan. 25; Gaz. vol. 150; p. 1037.
Syrup, Sugar and cane-. The Franklin Sugar Refining Company. No. 78,789; July 12; Gaz. vol. 156; p. 534.
Syrup, Teething-. D. Fahrney & Son. No. 77,629; Apr. 26; Gaz. vol. 153; p. 1078.
Syrup with cane flavor and sorghum, Compound of corn-. Fort Scott Sorghum Syrup Co. No. 80,472; Dec. 27; Gaz. vol. 161; p. 1039.
Syrups, coffee, and a compound of coffee and chicory. New Orleans Coffee Company. No. 77,947; May 17; Gaz. vol. 154; p. 832.
Syrups, Compound of corn and sorghum. Corn Products Refining Company. No. 78,403; June 14; Gaz. vol. 155; p. 549.
Syrups, Soda-water. Sellars and Patrick. No. 79,160; Aug. 9; Gaz. vol. 157; p. 483
Tables, Dining and library. The Mersman Bros. Brandts Company. No. 79,354; Aug. 30; Gaz. vol. 157; p. 1240.
Tables, Locking devices for pedestal extension-. Seng Company. No. 76,405; Jan. 11; Gaz. vol. 150; p. 566.
Tablets, composition and blank books, and writing-paper, Writing-. Educational Tablet Co. No. 76,559; Jan. 25; Gaz. vol. 150; p. 1038.
Tablets, composition-books, writing-paper, and papeteries, Writing-. Kalamazoo Stationery Company. No. 77,652; Apr. 26; Gaz. vol. 153; p. 1078.
Tablets, Menthol, glycerin, and gum-arabic. J. H. Zeilin & Company. No. 79,456; Sept. 6; Gaz. vol. 158; p. 225.
Tacks. Bishop & Babcock Co. Nos. 76,868–70; Feb. 22; Gaz. vol. 151; p. 1009.
Talking and moving-picture machine, Combined. Gaumont Co. No. 77,721; May 3; Gaz. vol. 154; p. 247.
Talking-machines and parts and records thereof. Victor Talking Machine Company. No. 80,201; Nov. 15; Gaz. vol. 160; p. 770.
Talking-machines and supplies therefor. Homophon Company, G. m. b. H. No. 78,099; May 31; Gaz. vol. 154; p. 1404.
Tamales. Baughman & Moore. No. 77,194; Mar. 22; Gaz. vol. 152; p. 953.
Tamarind extract. C. Erba. Nos. 76,787–8; Feb. 15; Gaz. vol. 151; p. 726.
Tanks and parts of same, Pneumatic. Leader Iron Works. No. 76,654; Feb. 8; Gaz. vol. 151; p. 445.
Tanks, Gasolene-. E. Williams. No. 76,865; Feb. 22; Gaz. vol. 151; p. 1009.
Tanks, Storage-. J. A. Ullman. No. 80,502; Dec. 27; Gaz. vol. 161; p. 1040.
Tanning compounds. El Quebracho Sociedad Anonima. No. 78,075; May 31; Gaz. vol. 154; p. 1403.
Tanning extract, Quebracho. A. Klipstein & Company. No. 77,695; May 3; Gaz. vol. 154; p. 247.
Tanning materials, Chrome-. The Martin Dennis Company. No. 78,070; May 31; Gaz. vol. 154; p. 1403.
Tanning, Pickling and baiting substances for. Röhm & Haas. No. 77,178; Mar. 15; Gaz. vol. 152; p. 728.
Tanning substances. The Forestal Land Timber & Rlys. Co. No. 77,529; Apr. 19; Gaz. vol. 153; p. 817.
Tea. Young, Mahood Co. No. 76,948; Feb. 22; Gaz. vol. 151; p. 1011.
Tea. C. H. McDonald. No. 77,092; Mar. 8; Gaz. vol. 152; p. 484.
Tea. Closset & Devers. No. 77,619; Apr. 26; Gaz. vol. 153; p. 1077.
Tea. Dwinell-Wright Company. No. 77,624; Apr. 26; Gaz. vol. 153; p. 1077.
Tea. J. A. Henderson. No. 77,808; May 10; Gaz. vol. 154; p. 509.
Tea. Closset & Devers. No. 78,311; June 7; Gaz. vol. 155; p. 301.
Tea. Ridgways Limited. No. 78,639; June 28; Gaz. vol. 155; p. 1039.
Tea. N. Blaustein. No. 79,187; Aug. 16; Gaz. vol. 157; p. 749.
Tea. P. C. Larkin. No. 79,219; Aug. 16; Gaz. vol. 157; p. 750.
Tea. A. P. Irwin & Company. No. 79,495; Sept. 13; Gaz. vol. 158; p. 478.
Tea. Asmus Brothers. No. 79,956; Oct. 25; Gaz. vol. 159; p. 987.
Tea. American Coffee Co. No. 80,017; Nov. 1; Gaz. vol. 160; p. 253.
Tea. N. L. Burchell. No. 80,208; Nov. 22; Gaz. vol. 160; p. 1033.
Tea and blended coffee. Thurston & Kingsbury. No. 78,745; July 5; Gaz. vol. 156; p. 255.
Tea and cocoa. Harden Bros. & Lindsay. No. 79,908; Oct. 18; Gaz. vol. 159; p. 743.
Tea and coffee. Robert G. Thomas & Son. No. 76,944; Feb. 22; Gaz. vol. 151; p. 1011.
Tea and spices. M. L. Eppstein. No. 79,967; Oct. 25; Gaz. vol. 159; p. 987.
Tea and roasted coffee, Blended. Ridenour-Baker Grocery Co. No. 77,140; Mar. 15; Gaz. vol. 152; p. 727.
Tea, Blended. B. H. Voskamps Sons. No. 79,310; Aug. 23; Gaz. vol. 157; p. 996.
Tea, Blended. S. E. May. Nos. 79,503–4; Sept. 13; Gaz. vol. 158; p. 478.
Tea, Blended. H. C. Fisher. No. 79,826; Oct. 11; Gaz. vol. 159; p. 485.
Tea, Blended. R. L. Gerhart. No. 80,050; Nov. 1; Gaz. vol. 160; p. 254.
Tea, blended coffee, and mince-meat. Judson Grocer Company. No. 79,217; Aug. 16; Gaz. vol. 157; p. 750.
Tea, blended coffee, spices, &c. Schorn & Brower. No. 79,792; Oct. 4; Gaz. vol. 159; p. 239.
Tea, coffee, flavoring extracts, spices, and mince-meat. Minnesota Mercantile Company. No. 76,765; Feb. 15; Gaz. vol. 151; p. 726.
Tea, corn-starch, mince-meat, and lard. Judson Grocer Company. No. 79,218; Aug. 16; Gaz. vol. 157; p. 750.
Tea, Fancy flavored. Jones-Paddock Co. No. 76,921; Feb. 22; Gaz. vol. 151; p. 1011.
Tea, flavoring extracts, and spices. Minnesota Mercantile Company. No. 79,294; Aug. 23; Gaz. vol. 157; p. 996.
Teas. Park & Tilford. No. 78,020; May 24; Gaz. vol. 154; p. 1104.
Teas. William S. Scull Company. No. 78,209; May 31; Gaz. vol. 154; p. 1407.
Teas and coffees. Arnold & Aborn. No. 78,223; May 31; Gaz. vol. 154; p. 1407.
Teas, blended coffee, and spices. Bleecker & Simons. No. 80,168; Nov. 15; Gaz. vol. 160; p. 769.
Teas, coffees, cocoa, and chocolate. Dowd & Scally. No. 80,467; Dec. 27; Gaz. vol. 161; p. 1039.
Teeth and mouth, Preparations for cleansing and preserving. K. k. landespriv. Milly-Kerzen-, Seifen-und Glycerin-Fabrik von F. A. Sarg's Sohn & Cie. No. 80,000; Oct. 25; Gaz. vol. 159; p. 988.
Teeth, False. G. Gordon Martin, Incorporated. No. 77,390; Apr. 5; Gaz. vol. 153; p. 267.
Teeth, Plastic compositions for making gums for artificial. A. Biber. No. 78,933; July 26; Gaz. vol. 156; p. 1061.
Telephone apparatus. Selig Polyscope Co. No. 77,493; Apr. 12; Gaz. vol. 153; p. 542.
Telephone apparatus. Selig Polyscope Co. No. 77,962; May 17; Gaz. vol. 154; p. 833.
Telephones, police-boxes, jack-boxes, &c. The Dean Electric Company. No. 79,263; Aug. 23; Gaz. vol. 157; p. 995.
Telescopes. C. Zeiss. Nos. 80,257–8; Nov. 22; Gaz. vol. 160; p. 1034.
Terra-cotta and clay blocks and tiles. National Fire Proofing Company. No. 80,236; Nov. 22; Gaz. vol. 160; p. 1034.
Textile fabrics, Certain. Rhine & Co. No. 78,445; June 14; Gaz. vol. 155; p. 550.
Textile fabrics, Filled. Williams, Brown and Earle. No. 78,752; July 5; Gaz. vol. 156; p. 255.
Textiles and draperies. Patchogue Manufacturing Company. No. 77,063; Mar. 8; Gaz. vol. 152; p. 483.

Alphabetical list of trade-marks—Continued.

Textiles, Certain. American Fibre Matting Company. No. 76,521; Jan. 25; Gaz. vol. 150; p. 1037.
Textiles, Certain. Chuck Bros. & Davis. No. 76,650; Feb. 8; Gaz. vol. 151; p. 445.
Textiles, Certain. Merrimack Manufacturing Company. No. 76,889; Feb. 22; Gaz. vol. 151; p. 1010.
Textiles, Certain. The Worcester Woolen Mill Co. No. 77,385; Apr. 5; Gaz. vol. 153; p. 267.
Textiles, Certain. F. A. Foster & Co. No. 77,716; May 3; Gaz. vol. 154; p. 247.
Textiles, Certain. The New York Mills. No. 77,825; May 10; Gaz. vol. 154; p. 510.
Textiles, Certain. M. Goldenberg. No. 77,995; May 24; Gaz. vol. 154; p. 1103.
Textiles, Certain. Kraft & Cutter. No. 78,103; May 31; Gaz. vol. 154; p. 1404.
Textiles, Certain. E. McKittrick & Co. Nos. 78,114–15; May 31; Gaz. vol. 154; p. 1404.
Textiles, Certain. Seydoux & Cie. No. 78,135; May 31; Gaz. vol. 154; p. 1405.
Textiles, Certain. Neuss Hesslein & Co. No. 78,326; June 7; Gaz. vol. 155; p. 302.
Textiles, Certain. John V. Farwell Company. No. 79,045; Aug. 2; Gaz. vol. 157; p. 203.
Textiles, Certain. Parkes Machine Company. No. 79,598; Sept. 20; Gaz. vol. 158; p. 698.
Thermometers and speedometers. Standard Thermometer Co. No. 77,144; Mar. 15; Gaz. vol. 152; p. 727.
Thermometers and thermometer-charts. Taylor Instrument Companies. No. 77,145; Mar. 15; Gaz. vol. 152; p. 727.
Thread and yarn. J. C. Meyer. No. 79,594; Sept. 20; Gaz. vol. 158; p. 698.
Thread and yarn, Cotton. Clark Mile-End Spool Cotton Company. No. 79,257; Aug. 23; Gaz. vol. 157; p. 995.
Thread, Linen. Lindsay Thompson & Co. Nos. 78,011–12; May 24; Gaz. vol. 154; p. 1104.
Thread, Linen. Lindsay Thompson & Co. No. 78,470; June 14; Gaz. vol. 155; p. 551.
Thread, Mercerized spool and sewing cotton. B. London & Sons. No. 77,739; May 3; Gaz. vol. 154; p. 247.
Thread, Spooled sewing-. Bullard Thread Company. No. 76,351; Jan. 11; Gaz. vol. 150; p. 565.
Threads and yarns. Superior Thread & Yarn Co. No. 80,448; Dec. 20; Gaz. vol. 161; p. 750.
Threads, Sewing-. Gudebrod Bros. Co. No. 79,122; Aug. 9; Gaz. vol. 157; p. 481.
Threads, Silk, cotton, mercerized, and machine sewing-. Gudebrod Bros. Co. No. 79,275; Aug. 23; Gaz. vol. 157; p. 996.
Threads, Silk, cotton, mercerized, and machine sewing-. Gudebrod Bros. Co. Nos. 79,489–90; Sept. 13; Gaz. vol. 158; p. 478.
Threads, Silk, cotton, mercerized, and machine sewing-. Gudebrod Bros. Co. No. 79,574; Sept. 20; Gaz. vol. 158; p. 698.
Threads, Silk, cotton, mercerized, and machine sewing-. Gudebrod Bros. Co. Nos. 79,830–1; Oct. 11; Gaz. vol. 159; p. 485.
Ties, Dress-. W. O. Horn & Bro. No. 80,057; Nov. 1; Gaz. vol. 160; p. 254.
Tiles, Earthenware and porcelain. Charles Davison and Company. No. 79,899; Oct. 18; Gaz. vol. 159; p. 743.
Tin. Williams, Harvey & Co. No. 76,805; Feb. 15; Gaz. vol. 151; p. 727.
Tinware kitchen and household utensils. The Republic Metalware Company. No. 78,736; July 5; Gaz. vol. 156; p. 255.
Tire patches, Pneumatic-. E. T. Horsey. No. 78,881; July 19; Gaz. vol. 156; p. 793.
Tires and tire-shoes, Rubber. Rubber Company of America. No. 78,448; June 14; Gaz. vol. 155; p. 550.
Tires and tubing, Rubber. Rutherford Rubber Company. No. 79,789; Oct. 4; Gaz. vol. 159; p. 239.
Tires, Pneumatic vehicle-. Beckley Ralston Co. No. 76,928; Feb. 22; Gaz. vol. 151; p. 1011.
Tires, Powder for sealing punctures in pneumatic. The Tiresele Co. No. 77,060; Mar. 8; Gaz. vol. 152; p. 483.
Tires, Rubber. Shawmut Tire Company. No. 77,095; Mar. 8; Gaz. vol. 152; p. 484.
Tires, Rubber. Kokomo Rubber Co. No. 77,550; Apr. 19; Gaz. vol. 153; p. 818.
Tires, Rubber. F. F. Rick & Co. No. 79,081; Aug. 2; Gaz. vol. 157; p. 204.
Tires, Solid, cushion, and pneumatic rubber vehicle-. The Hartford Rubber Works Company. No. 77,236; Mar. 22; Gaz. vol. 152; p. 954.
Tires, Solid, cushion, and pneumatic rubber vehicle-. The Hartford Rubber Works Company. No. 77,355; Mar. 29; Gaz. vol. 152; p. 1221.
Tobacco. Bleil Champagne Kunath Co. No. 78,490; June 21; Gaz. vol. 155; p. 795.
Tobacco, Chewing-. G. L. Fullwood. No. 79,752; Oct. 4; Gaz. vol. 159; p. 238.
Tobacco, cigars, and cigarettes, Smoking-. G. Phillips & Sons. No. 77,485; Apr. 12; Gaz. vol. 153; p. 542.
Tobacco, cigars, cigarettes, and snuff. Carreras & Marcianus Cigarettes Limited. No. 76,484; Jan. 18; Gaz. vol. 150; p. 822.
Tobacco for wrappers and fillers, Leaf-. Connecticut Tobacco Corporation. No. 77,224; Mar. 22; Gaz. vol. 152; p. 954.
Tobacco mixture, Smoking-. G. Phillips & Sons. No. 77,484; Apr. 12; Gaz. vol. 153; p. 542.
Tobacco-pipes. B. Barling & Sons. No. 80,339; Dec. 13; Gaz. vol. 161; p. 525.
Tobacco, Smoking-. Clark & Snover Co. No. 77,039; Mar. 1; Gaz. vol. 152; p. 227.
Tobacco, Smoking-. G. C. Knight. No. 79,062; Aug. 2; Gaz. vol. 157; p. 204.
Tobacco, Smoking-. Falk Tobacco Co. No. 79,743; Oct. 4; Gaz. vol. 159; p. 237.
Tobacco, Smoking and chewing. Moore & Calvi. No. 76,941; Feb. 22; Gaz. vol. 151; p. 1011.
Tobacco, Smoking and chewing. Moore & Calvi. No. 79,138; Aug. 9; Gaz. vol. 157; p. 482.
Tobacco, Smoking and chewing. Moore & Calvi. No. 79,355; Aug. 30; Gaz. vol. 157; p. 1240.
Tobacco, Smoking and chewing. Moore & Calvi. No. 80,284; Nov. 29; Gaz. vol. 160; p. 1267.
Toilet articles, Certain. The Baldwin Perfumery Co. Nos. 79,318–19; Aug. 30; Gaz. vol. 157; p. 1239.
Toilet preparation. Emerson Drug Co. No. 79,567; Sept. 20; Gaz. vol. 158; p. 697.
Toilet preparations. The Imperial Chemical Mfg. Co. No. 76,716; Feb. 8; Gaz. vol. 151; p. 447.
Toilet preparations. K. E. Dunn. No. 78,316; June 7; Gaz. vol. 155; p. 301.
Toilet preparations. J. Senegas. No. 78,649; June 28; Gaz. vol. 155; p. 1039.
Toilet preparations. E. Burnham. No. 79,556; Sept. 20; Gaz. vol. 158; p. 697.
Toilet preparations. Frederick F. Ingram Co. No. 79,583; Sept. 20; Gaz. vol. 158; p. 698.
Toilet preparations and fumigating-wafers, Certain. Colgate & Co. No. 77,203; Mar. 22; Gaz. vol. 152; p. 953.
Toilet preparations and hair-tonic. W. H. J. Smith. No. 78,915; July 19; Gaz. vol. 156; p. 794.
Toilet preparations and medicines. J. T. Eckes. No. 79,562; Sept. 20; Gaz. vol. 158; p. 697.
Toilet preparations, Certain. E. G. Phibbs. No. 76,821; Feb. 15; Gaz. vol. 151; p. 727.
Toilet preparations, Certain. E. E. Powell Co. No. 80,082; Nov. 1; Gaz. vol. 160; p. 255.
Toilet preparations, Certain. S. C. Borom. No. 80,302; Dec. 6; Gaz. vol. 161; p. 263.
Toilet preparations for reducing flesh. J. L. Johnson. No. 79,838; Oct. 11; Gaz. vol. 159; p. 486.
Toilet preparations, ointments, and liniments, Certain. F. Fues. No. 76,620; Feb. 1; Gaz. vol. 151; p. 190.
Toilet preparations, perfumery, and tooth-pastes. Hutzler Brothers Co. of Baltimore City. No. 77,317; Mar. 29; Gaz. vol. 152; p. 1220.
Toilet water. J. B. Williams Company. No. 79,313; Aug. 23; Gaz. vol. 157; p. 997.
Tomato paste. A. Cusimano & Co. No. 78,165; May 31; Gaz. vol. 154; p. 1406.
Tongue-cleaners. J. Baumgarten. No. 76,846; Feb. 15; Gaz. vol. 151; p. 728.
Tonic and stimulant, Nerve. The Maltbie Chemical Company. No. 80,371; Dec. 13; Gaz. vol. 161; p. 526.
Tonic beverage and syrup for making same. C. C. Gautier. No. 80,311; Dec. 6; Gaz. vol. 161; p. 263.
Tonic beverage and syrup for making the same. T. W. Kendrick. No. 76,489; Jan. 18; Gaz. vol. 150; p. 823.
Tonic beverage and syrup for making the same. The Capital City Bottling Works. No. 78,774; July 12; Gaz. vol. 156; p. 533.
Tonic beverage and syrup for making the same. The Cherry Cheer Co. No. 78,776; July 12; Gaz. vol. 156; p. 533.
Tonic beverage and syrup for the same. Leonard Brothers. No. 78,616; June 28; Gaz. vol. 155; p. 1038.
Tonic-beverage syrup and drink made therefrom, Non-intoxicating. O. A. Ferguson. No. 76,339; Jan. 4; Gaz. vol. 150; p. 263.
Tonic beverages and tablets and powders for making same. Leo Grotte Mfg. Co. No. 77,025; Mar. 1; Gaz. vol. 152; p. 227.
Tonic beverages and tablets and powders for making same. V. Jones. No. 78,101; May 31; Gaz. vol. 154; p. 1404.
Tonic beverages, Preparation for making. R. J. Gillham. No. 79,488; Sept. 13; Gaz. vol. 158; p. 477.
Tonic, Nerve-. Puritan Remedy Co. No. 76,839; Feb. 15; Gaz. vol. 151; p. 728.
Tonic port. J. C. de St. Hubert. No. 77,763; May 3; Gaz. vol. 154; p. 249.
Tonics. J. C. Price. No. 76,480; Jan. 18; Gaz. vol. 150; p. 822.
Tonics and dyspepsia-tablets. W. L. White. No. 77,889; May 10; Gaz. vol. 154; p. 512.
Tool and implement handles, Wooden. United Handle Mills. No. 78,842; July 12; Gaz. vol. 156; p. 535.
Tool-handles. J. E. Duffield & Company. No. 78,595; June 28; Gaz. vol. 155; p. 1038.
Tool-handles. Turner, Day & Woolworth Handle Co. No. 79,018; July 26; Gaz. vol. 156; p. 1063.
Tool-handles, Wooden. Turner, Day & Woolworth Handle Co. No. 76,463; Jan. 18; Gaz. vol. 150; p. 822.

Alphabetical list of trade-marks—Continued.

Tool-handles, Wooden. The L. C. Hasinger Company. No. 80,278; Nov. 29; Gaz. vol. 160; p. 1267.
Tools and machine parts, Certain. Hobson, Houghton & Co. No. 78,708; July 5; Gaz. vol. 156; p. 254.
Tools and machines, Certain. Russell & Erwin Manufacturing Company. No. 78,643; June 28; Gaz. vol. 155; p. 1039.
Tools and parts thereof, Certain named. King Hardware Co. No. 79,285; Aug. 23; Gaz. vol. 157; p. 996.
Tools and tool-handles, Certain. Norvell-Shapleigh Hardware Company. No. 78,629; June 28; Gaz. vol. 155; p. 1038.
Tools, Certain. H. H. Mayhew Co. No. 76,287; Jan. 4; Gaz. vol. 150; p. 261.
Tools, Certain. Snell & Atherton. No. 76,311; Jan. 4; Gaz. vol. 150; p. 262.
Tools, Certain. Peck, Stow & Wilcox Co. No. 76,418; Jan. 11; Gaz. vol. 150; p. 567.
Tools, Certain. H. H. Mayhew Co. No. 76,487; Jan. 18; Gaz. vol. 150; p. 822.
Tools, Certain. Edgar Allen & Co. No. 76,685; Feb. 8; Gaz. vol. 151; p. 446.
Tools, Certain. Geo. H. Bishop & Co. No. 76,879; Feb. 22; Gaz. vol. 151; p. 1010.
Tools, Certain. Warren Axe & Tool Company. No. 77,014; Mar. 1; Gaz. vol. 152; p. 227.
Tools, Certain. G. H. Bishop & Co. No. 77,064; Mar. 8; Gaz. vol. 152; p. 483.
Tools, Certain. Norvell-Shapleigh Hardware Company. No. 77,752; May 3; Gaz. vol. 154; p. 248.
Tools, Certain. Ebstein Bros. No. 77,909; May 17; Gaz. vol. 154; p. 831.
Tools, Certain. Ralph Martindale & Co. No. 78,889; July 19; Gaz. vol. 156; p. 794.
Tools, Certain. Henry Rossell & Co. No. 79,009; July 26; Gaz. vol. 156; p. 1063.
Tools, Certain. North Bro's M'f'g Co. No. 79,076; Aug. 2; Gaz. vol. 157; p. 204.
Tools, Certain. Norvell-Shapleigh Hardware Company. No. 79,631; Sept. 20; Gaz. vol. 158; p. 699.
Tools, Pneumatic. Thos. H. Dallett Company. No. 76,607; Feb. 1; Gaz. vol. 151; p. 190.
Tooth-fillings and dental gold, Amalgam. John Hood Co. No. 78,801; July 12; Gaz. vol. 156; p. 534.
Tooth paste, cream, and powder, and lotion. K. k. landespriv. Milly-Kerzen-, Seifen-und Glycerin-Fabrik von F. A. Sarg's Sohn & Co. No. 80,001; Oct. 25; Gaz. vol. 159; p. 988.
Tooth powder, paste, and mouth-wash. V. Halper. No. 79,124; Aug. 9; Gaz. vol. 157; p. 481.
Tooth-wash. A. C. Smysor. No. 79,702; Sept. 27; Gaz. vol. 158; p. 880.
Toothache-relief, Equipment for. W. J. Littlehales. No. 78,253; May 31; Gaz. vol. 154; p. 1408.
Toothpicks. Forster Manufacturing Company. No. 77,991; May 24; Gaz. vol. 154; p. 1103.
Towel-rollers. S. Lewis. No. 78,252; May 31; Gaz. vol. 154; p. 1408.
Towels. Oxford Linen Mills. Nos. 76,456–7; Jan. 18; Gaz. vol. 150; p. 822.
Toys and puzzles. P. A. MacMahon. No. 78,428; June 14; Gaz. vol. 155; p. 550.
Toys, Rebounding. De Long Hook and Eye Company. No. 76,652; Feb. 8; Gaz. vol. 151; p. 445.
Toys, Sand. Sand Toy Company. No. 78,451; June 14; Gaz. vol. 155; p. 550.
Transformer and dynamo plates. Joseph Sankey & Sons. No. 79,791; Oct. 4; Gaz. vol. 159; p. 239.
Trays and planks, Certain wooden. R. C. Herren. No. 78,097; May 31; Gaz. vol. 154; p. 1404.
Tree-tapping implements. F. Esser & Co. No. 77,456; Apr. 12; Gaz. vol. 153; p. 541.
Trolley-clamps and suspension devices. The Ohio Brass Company. No. 77,879; May 10; Gaz. vol. 154; p. 511.
Trolleys, Both plain and geared weight-carrying. New Jersey Foundry & Machine Co. No. 79,997; Oct. 25; Gaz. vol. 159; p. 988.
Truck, Repairman's. The Brown Company. No. 79,554; Sept. 20; Gaz. vol. 158; p. 697.
Trunks. Fibre Specialty Co. No. 76,357; Jan. 11; Gaz. vol. 150; p. 565.
Trunks, suit-cases, grips, and valises. Mendel & Co. No. 76,860; Feb. 22; Gaz. vol. 151; p. 1009.
Tweeds, cassimeres, meltons, serges, and broadcloths. Tilton Mills. No. 76,803; Feb. 15; Gaz. vol. 151; p. 727.
Twine and cord. American Net & Twine Co. Nos. 77,604–5; Apr. 26; Gaz. vol. 153; p. 1077.
Twine and cord. Linen Thread Co. No. 80,069; Nov. 1; Gaz. vol. 160; p. 254.
Twine, Seine-. Norvell-Shapleigh Hardware Company. No. 78,540; June 21; Gaz. vol. 155; p. 796.
Tulle nets and chiffon, Waterproof. L. & E. Stirn. No. 80,447; Dec. 20; Gaz. vol. 161; p. 750.
Type-writer ribbons and carbon-paper. H. M. Storms Company. No. 79,940; Oct. 18; Gaz. vol. 159; p. 744.
Type-writing machines and parts thereof. Standard Typewriter Co. No. 80,090; Nov. 1; Gaz. vol. 160; p. 255.
Umbrellas. Arthe, Levy, Bernhard Co. Nos. 76,636–8; Feb. 8; Gaz. vol. 151; p. 445.
Umbrellas. Gans Bros. No. 79,973; Oct. 25; Gaz. vol. 159; p. 987.
Umbrellas, parasols, walking-sticks, &c. "Schirmherr" Reformschirm-Fabrik Friedlaender & Kaufmann. No. 78,133; May 31; Gaz. vol. 154; p. 1405.
Underclothing, Children's. Brown Durrell Co. No. 80,266; Nov. 29; Gaz. vol. 160; p. 1267.
Undershirts and drawers. B. V. D. Company. No. 77,436; Apr. 12; Gaz. vol. 153; p. 541.
Undershirts, drawers, and union suits. Gutman Bros. No. 78,000; May 24; Gaz. vol. 154; p. 1103.
Undershirts, drawers, night-robes, and pajamas. T. Silberman. No. 76,461; Jan. 18; Gaz. vol. 150; p. 822.
Undershirts, drawers, pajamas, and night-robes. T. F. Baulig. No. 78,765; July 12; Gaz. vol. 156; p. 533.
Undershirts, drawers, socks, and knitted shirts, Men's. Neustadter Brothers. No. 77,668; Apr. 26; Gaz. vol. 153; p. 1079.
Undershirts, outer vests and waists, and dresses, Ladies'. Lack Manufacturing Company. No. 76,859; Feb. 22; Gaz. vol. 151; p. 1009.
Underwear. North Bros. and Strauss. No. 76,454; Jan. 18; Gaz. vol. 150; p. 822.
Utero-ovarian corrective and tonic. Purdue Frederick Co. No. 76,299; Jan. 4; Gaz. vol. 150; p. 262.
Valves. F. H. Sauer. No. 76,674; Feb. 8; Gaz. vol. 151; p. 446.
Valves. American Steam Gauge & Valve Mfg. Co. No. 76,984; Mar. 1; Gaz. vol. 152; p. 226.
Valves. The Fisher Governor Company. No. 78,698; July 5; Gaz. vol. 156; p. 253.
Valves. Nelson Valve Company. No. 79,510; Sept. 13; Gaz. vol. 158; p. 478.
Valves and cocks. G. J. Thomas. No. 78,839; July 12; Gaz. vol. 156; p. 535.
Valves and hardware, Certain. E. Dubied & Co. No. 78,499; June 21; Gaz. vol. 155; p. 795.
Valves and parts of valves. W. E. Zierden. No. 79,621; Sept. 20; Gaz. vol. 158; p. 699.
Valves and parts thereof. Star Brass Manufacturing Company. No. 78,283; May 31; Gaz. vol. 154; p. 1409.
Valves, cocks, and parts thereof. Kinsey & Mahler Co. No. 78,185; May 31; Gaz. vol. 154; p. 1406.
Valves, Pressure-regulating. W. Ross. No. 79,861; Oct. 11; Gaz. vol. 159; p. 486.
Valves, Steam and water. The Fairbanks Company. No. 77,630; Apr. 26; Gaz. vol. 153; p. 1078.
Varnish. B. F. Whittington. No. 76,421; Jan. 11; Gaz. vol. 150; p. 567.
Varnish. The Hartford Rubber Works Company. No. 77,118; Mar. 8; Gaz. vol. 152; p. 485.
Varnish. Pratt & Lambert. No. 79,446; Sept. 6; Gaz. vol. 158; p. 224.
Varnish. Pratt & Lambert. Nos. 79,520–1; Sept. 13; Gaz. vol. 158; p. 478.
Varnish. Pratt & Lambert. No. 80,196; Nov. 15; Gaz. vol. 160; p. 769.
Varnish and paint remover, Liquid. Kane Varnish and Paint Remover Co. No. 79,917; Oct. 18; Gaz. vol. 159; p. 744.
Varnish-dressing. Kenosha Chemical Company. No. 76,341; Jan. 4; Gaz. vol. 150; p. 263.
Varnish-stains and enamels. Bindley Hardware & Mfg. Co. No. 79,548; Sept. 20; Gaz. vol. 158; p. 697.
Varnishes. Wadsworth, Howland & Co. Nos. 77,181–2; Mar. 15; Gaz. vol. 152; p. 728.
Varnishes and japans. The Forbes Varnish Company. No. 77,528; Apr. 19; Gaz. vol. 153; p. 817.
Varnishes, japans, oil-stains, &c. Worden Meeker Varnish Co. No. 78,337; June 7; Gaz. vol. 155; p. 302.
Vegetables and dried prunes, Evaporated and granulated. Dayton Evaporating & Packing Co. No. 76,990; Mar. 1; Gaz. vol. 152; p. 226.
Vegetables and milk-powder, Desiccated. F. Behrend. No. 78,568; June 28; Gaz. vol. 155; p. 1037.
Vehicle parts and trimmings. Shattuck-George Iron Co. No. 80,384; Dec. 13; Gaz. vol. 161; p. 526.
Vehicle-shields. W. C. Miles. No. 79,070; Aug. 2; Gaz. vol. 157; p. 204.
Vehicle storm fronts and covers. John Boyle & Co. No. 77,162; Mar. 15; Gaz. vol. 152; p. 728.
Vehicle wind-shields. A. D. Perkins. No. 78,272; May 31; Gaz. vol. 154; p. 1409.
Vehicles and parts thereof, Certain. Ideal Plating Company. No. 77,024; Mar. 1; Gaz. vol. 152; p. 227.
Vehicles and parts thereof, Certain named. Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs. No. 79,372; Aug. 30; Gaz. vol. 157; p. 1240.
Vehicles, Certain. Sechler & Company. No. 79,159; Aug. 9; Gaz. vol. 157; p. 483.
Vehicles, Self-propelled. The Gramm-Logan Motor Car Company. No. 77,917; May 17; Gaz. vol. 154; p. 831.
Veilings. Strauss Bros. & Company. No. 79,942; Oct. 18; Gaz. vol. 159; p. 744.
Veilings, nettings, maline, tulle, and chiffons. D. Strauss. No. 77,844; May 10; Gaz. vol. 154; p. 510.
Veils. J. V. Siegel. No. 78,831; July 12; Gaz. vol. 156; p. 535.
Velvets and plushes. The Salt's Textile Manufacturing Company. No. 79,863; Oct. 11; Gaz. vol. 159; p. 486.

Alphabetical list of trade-marks—Continued.

Ventilators. Merchant & Evans Company. No. 80,485; Dec. 27; Gaz. vol. 161; p. 1040.
Vermicelli and macaroni. P. Daussa & Co. No. 77,708; May 3; Gaz. vol. 154; p. 247.
Vermifuge and remedies for certain diseases. Dr. J. F. True & Co. No. 80,092; Nov. 1; Gaz. vol. 160; p. 255.
Vermin-destroyers, insecticides, disinfectants, and antiseptics. The Anti-Vermin Co. No. 76,807; Feb. 15; Gaz. vol. 151; p. 727.
Vermin-destroying preparations. Pasteur Vaccine Company. No. 79,003; July 26; Gaz. vol. 156; p. 1063.
Vermin-destroying virus. Pasteur Vaccine Company. No. 78,442; June 14; Gaz. vol. 155; p. 550.
Vermin-exterminating preparations. Connolly & Slaven. No. 80,219; Nov. 22; Gaz. vol. 160; p. 1033.
Veterinary embrocations. The S. R. Feil Company. No. 77,109; Mar. 8; Gaz. vol. 152; p. 484.
Veterinary remedy. Ahrens Brothers. No. 77,351; Mar. 29; Gaz. vol. 152; p. 1221.
Veterinary vermifuges, medicated salts, and tonics. The S. R. Feil Company. No. 77,492; Apr. 12; Gaz. vol. 153; p. 542.
Vinegar. Haynes-Piper Company. No. 76,288; Jan. 4; Gaz. vol. 150; p. 261.
Vinegar. American Fruit Product Company. No. 78,761; July 12; Gaz. vol. 156; p. 533.
Vinegar. Francis H. Leggett & Co. No. 79,993; Oct. 25; Gaz. vol. 159; p. 988.
Vinegar. C. W. Antrim & Sons. No. 80,262; Nov. 29; Gaz. vol. 160; p. 1267.
Vinegar, Apple-cider. New Jersey Cider Vinegar Works. No. 76,890; Feb. 22; Gaz. vol. 151; p. 1010.
Violin-strings. Bauer & Dürrschmidt. No. 77,440; Apr. 12; Gaz. vol. 153; p. 541.
Violins and violin-bows. Rudolph Wurlitzer Co. No. 78,152; May 31; Gaz. vol. 154; p. 1405.
Vise. Prentiss Vise Company. Nos. 78,634–8; June 28; Gaz. vol. 155; p. 1039.
Vises. Prentiss Vise Company. No. 79,692; Sept. 27; Gaz. vol. 158; p. 880.
Vises. Prentiss Vise Company. No. 80,376; Dec. 13; Gaz. vol. 161; p. 526.
Wagons. Breese Brothers Company. No. 79,025; July 26; Gaz. vol. 156; p. 1063.
Wagons and go-carts, Boys'. Norvell-Shapleigh Hardware Company. No. 78,268; May 31; Gaz. vol. 154; p. 1409.
Wagons, Farm-. Florence Wagon Works. No. 77,868; May 10; Gaz. vol. 154; p. 511.
Wagons, Farm-. Florence Wagon Works. No. 77,912; May 17; Gaz. vol. 154; p. 831.
Waistcoats, Men's. Currick, Leiken & Bandler. No. 78,691; July 5; Gaz. vol. 156; p. 253.
Waists and shirt-waists, Ladies' outer. A. Solomon. No. 77,840; May 10; Gaz. vol. 154; p. 510.
Waists and skirts, Ladies'. Burnham Hanna Munger D G Co. No. 80,172; Nov. 15; Gaz. vol. 160; p. 769.
Wall-coating, Base for making. Anti-Kalsomine Company. No. 76,337; Jan. 4; Gaz. vol. 150; p. 263.
Wall-coating composition. Muralo Company. No. 77,027; Mar. 1; Gaz. vol. 152; p. 227.
Wall-coverings, Woven fabrics for. H. B. Wiggin's Sons Company. No. 76,789; Feb. 15; Gaz. vol. 151; p. 726.
Wallets. Emil Weissbrod & Sons. No. 78,366; June 7; Gaz. vol. 155; p. 303.
Washers. N. E. Booth. No. 78,157; May 31; Gaz. vol. 154; p. 1406.
Washing and bleaching fluid. G. Greco. No. 77,999; May 24; Gaz. vol. 154; p. 1103.
Washing and cleaning powder. Halsey J. Tibbals Chemical Manufacturing Company. No. 77,807; May 10; Gaz. vol. 154; p. 509.
Washing compound. Rub-A-Lac Manufacturing Company. No. 76,304; Jan. 4; Gaz. vol. 150; p. 262.
Washing compound. S. A. Magee. No. 76,762; Feb. 15; Gaz. vol. 151; p. 725.
Washing compound. The Crystalene Manufacturing Company. No. 76,932; Feb. 22; Gaz. vol. 151; p. 1011.
Washing compound. A. E. Rawlins. No. 77,755; May 3; Gaz. vol. 154; p. 248.
Washing-machines. Swanson-Ericson Manufacturing Company. No. 80,161; Nov. 8; Gaz. vol. 160; p. 490.
Washing-machines, Domestic. Richmond Cedar Works. No. 78,206; May 31; Gaz. vol. 154; p. 1407.
Washing-machines, Laundry. Royal Washer Company. No. 77,268; Mar. 22; Gaz. vol. 152; p. 955.
Washing-powder. The Roessler & Hasslacher Chemical Co. No. 78,641; June 28; Gaz. vol. 155; p. 1039.
Washing-powder and soap. Fabrikation für Lessive Phénix Patent J. Picot Paris L. Minlos & Co. No. 76,757; Feb. 15; Gaz. vol. 151; p. 725.
Washboilers. M. Kamenstein. No. 79,586; Sept. 20; Gaz. vol. 158; p. 698.
Washboilers, Double-bottom attachment for. S. L. Smith. No. 80,003; Oct. 25; Gaz. vol. 159; p. 988.
Washstands and screens, Combined. A. L. Jones. No. 77,736; May 3; Gaz. vol. 154; p. 248.
Watch cases and movements. Illinois Watch Case Company. No. 77,052; Mar. 8; Gaz. vol. 152; p. 483.
Watch cases and movements. Illinois Watch Case Co. No. 79,284; Aug. 23; Gaz. vol. 157; p. 996.
Watch cases and movements. Illinois Watch Case Co. No. 79,494; Sept. 13; Gaz. vol. 158; p. 478.
Watch cases and movements. Illinois Watch Case Co. No. 79,676; Sept. 27; Gaz. vol. 158; p. 880.
Watch-movements. The Oskamp Nolting Company. Nos. 78,898–9; July 19; Gaz. vol. 156; p. 794.
Watch-movements. Baltimore Bargain House. No. 79,808; Oct. 11; Gaz. vol. 159; p. 485.
Watch parts. O. O. Aune. No. 79,245; Aug. 23; Gaz. vol. 157; p. 995.
Watches. United Drug Company. No. 77,346; Mar. 29; Gaz. vol. 152; p. 1220.
Watches and watch-movements. B. L. Strasburger & Co. No. 76,644; Feb. 8; Gaz. vol. 151; p. 445.
Watches and watch-movements. B. L. Strasburger & Co. No. 76,774; Feb. 15; Gaz. vol. 151; p. 726.
Watches and watch-movements. H. Didisheim & Bro. No. 77,711; May 3; Gaz. vol. 154; p. 247.
Watches, watch movements, dials, and cases. G. Ducommun. No. 79,196; Aug. 16; Gaz. vol. 157; p. 749.
Watchcases. Illinois Watch Case Co. No. 78,974; July 26; Gaz. vol. 156; p. 1062.
Watchmakers' tools. Henry Zimmern & Co. No. 77,537; Apr. 19; Gaz. vol. 153; p. 818.
Water-closet-seat lids. Eastburn & Reeves. No. 77,126; Mar. 15; Gaz. vol. 152; p. 727.
Water-closets. L. M. Rumsey Manufacturing Company. No. 77,003; Mar. 1; Gaz. vol. 152; p. 226.
Water, Filtered. The Electrolytic Purifying Company. No. 77,714; May 3; Gaz. vol. 154; p. 247.
Water-meters. E. E. Gamon. No. 77,634; Apr. 26; Gaz. vol. 153; p. 1078.
Water, Mineral. Gibson Well Water Company. No. 77,187; Mar. 15; Gaz. vol. 152; p. 729.
Water, Natural medicinal. California Medicinal Springs Co. No. 78,063; May 31; Gaz. vol. 154; p. 1403.
Water, Natural mineral. C. J. Shoaf. No. 78,740; July 5; Gaz. vol. 156; p. 255.
Water, Natural mineral. E. H. Wagner. No. 79,091; Aug. 2; Gaz. vol. 157; p. 204.
Water, Natural mineral, carbonated, and aerated. Glenn Springs Company. No. 76,486; Jan. 18; Gaz. vol. 150; p. 822.
Water, Natural mineral table-. D. Wheatley. No. 76,498; Jan. 18; Gaz. vol. 150; p. 823.
Water, Natural spring-. Gladstone Springs Co. No. 76,327; Jan. 4; Gaz. vol. 150; p. 262.
Water, Natural spring-. T. F. Hoare. No. 78,800; July 12; Gaz. vol. 156; p. 534.
Water, Natural table-. The Rocky Mountain Water Company. No. 77,331; Mar. 29; Gaz. vol. 152; p. 1220.
Waters and tonic beverages, Potable. Majestic Bottling Co. No. 76,720; Feb. 8; Gaz. vol. 151; p. 447.
Waters, Natural mineral. Königliche Regierung, Abteilung für direkte Steuern, Domänen und Forsten in Wiesbaden. No. 77,470; Apr. 12; Gaz. vol. 153; p. 542.
Waterproof cloth. Federal Waterproofing Co. No. 76,445; Jan. 18; Gaz. vol. 150; p. 821.
Waterproof composition. Impervious Products Company. No. 80,224; Nov. 22; Gaz. vol. 160; p. 1033.
Wax, Laundry. Whittemore-Wright Company. No. 80,396; Dec. 13; Gaz. vol. 161; p. 526.
Weaving-looms and jacquard machinery, Shedding for. Levy Fils, A. Bernheim & Cie. No. 80,025; Nov. 1; Gaz. vol. 160; p. 253.
Wheat-flakes and rolled oats. The Bozeman Milling Company. No. 78,771; July 12; Gaz. vol. 156; p. 533.
Wheelbarrows. Toledo Wheelbarrow Company. No. 76,676; Feb. 8; Gaz. vol. 151; p. 446.
Whips. Steimer & Moore Whip Co. Nos. 76,381–4; Jan. 11; Gaz. vol. 150; p. 566.
Whiskies. Fritz Handrich & Sons. No. 77,186; Mar. 15; Gaz. vol. 152; p. 728.
Whiskies. John Walker & Sons. No. 78,286; May 31; Gaz. vol. 154; p. 1409.
Whiskies. O'Neil & Weill. No. 80,290; Nov. 29; Gaz. vol. 160; p. 1268.
Whiskies, Blend of straight Scotch. R. McNish & Co. No. 78,431; June 14; Gaz. vol. 155; p. 550.
Whiskies, Blend of straight Scotch. J. Walker & Sons. No. 78,556; June 21; Gaz. vol. 155; p. 797.
Whisky. Rothenberg Company. No. 76,419; Jan. 11; Gaz. vol. 150; p. 567.
Whisky. Philadelphia Pure Rye Whiskey Distilling Company of Pennsylvania. No. 76,495; Jan. 18; Gaz. vol. 150; p. 823.
Whisky. Swope & Mangold. No. 76,535; Jan. 25; Gaz. vol. 150; p. 1038.
Whisky. H. B. Kirk & Co. No. 77,356; Mar. 29; Gaz. vol. 152; p. 1221.
Whisky. C. A. Knecht & Son. No. 77,358; Mar. 29; Gaz. vol. 152; p. 1221.
Whisky. J. Rauber & Co. No. 77,488; Apr. 12; Gaz. vol. 153; p. 542.
Whisky. Isaac Weil & Sons. No. 77,544; Apr. 19; Gaz. vol. 153; p. 818.
Whisky. West Overton Distilling Co. No. 77,594; Apr. 19; Gaz. vol. 153; p. 819.
Whisky. E. Eising & Co. No. 77,864; May 10; Gaz. vol. 154; p. 511.

Alphabetical list of trade-marks—Continued.

Whisky. Fort Wayne Drug Company. No. 78,381; June 7; Gaz. vol. 155; p. 303.
Whisky. F. W. Bradley. No. 79,253; Aug. 23; Gaz. vol. 157; p. 995.
Whisky. John Jameson & Son. No. 79,343; Aug. 30; Gaz. vol. 157; p. 1239.
Whisky. Julius Kessler & Co. No. 79,345; Aug. 30; Gaz. vol. 157; p. 1240.
Whisky. Fort Wayne Drug Company. No. 79,485; Sept. 13; Gaz. vol. 158; p. 477.
Whisky. The Kelly-Steinmentz Liquor Co. No. 79,629; Sept. 20; Gaz. vol. 158; p. 699.
Whisky. D. Clemens. Nos. 80,211–14; Nov. 22; Gaz. vol. 160; p. 1033.
Whisky. Mitchell & Company of Belfast. No. 80,372; Dec. 13; Gaz. vol. 161; p. 526.
Whisky. Chicago Distilling Co. No. 80,408; Dec. 20; Gaz. vol. 161; p. 749.
Whisky, Blended. The Kelly-Steinmetz Liquor Co. No. 77,872; May 10; Gaz. vol. 154; p. 511.
Whisky, Blended. F. W. Bradley. No. 78,398; June 14; Gaz. vol. 155; p. 549.
Whisky, Blended. F. W. Bradley. No. 80,028; Nov. 1; Gaz. vol. 160; p. 253.
Whisky, Straight. The Union Distilling Co. No. 77,274; Mar. 22; Gaz. vol. 152; p. 955.
Whisky, Straight Irish. Strauss & Co. No. 77,110; Mar. 8; Gaz. vol. 152; p. 484.
Whisky, Straight Irish. Irish Industrial Development Association. No. 79,059; Aug. 2; Gaz. vol. 157; p. 204.
Whisky, Straight rye. Klewe Bros. No. 77,925; May 17; Gaz. vol. 154; p. 832.
Whips. Independent Whip Co. No. 79,914; Oct. 18; Gaz. vol. 159; p. 744.
Wine and extract of meat, Compound of port-. A. C. F. Morgan. No. 78,893; July 19; Gaz. vol. 156; p. 794.
Wine and sherry. Geo. Benz & Sons. No. 80,402; Dec. 20; Gaz. vol. 161; p. 749.
Wine, California port-type. California Wine Association. No. 77,117; Mar. 8; Gaz. vol. 152; p. 485.
Wine, Champagne-. A. de Montebello & Co. Nos. 77,875–6; May 10; Gaz. vol. 154; p. 511.
Wine, Champagne-. A. de Montebello & Co. No. 78,436; June 14; Gaz. vol. 155; p. 550.
Wine, Moselle. Acker, Merrall & Condit Co. No. 78,563; June 28; Gaz. vol. 155; p. 1037.
Wine, Sherry-. Williams & Humbert. No. 76,499; Jan. 18; Gaz. vol. 150; p. 823.
Wine, Sherry-. B. P. Misa. No. 80,076; Nov. 1; Gaz. vol. 160; p. 254.
Wine, Still. Sociedad Vinicola S. & L. Durlacher. No. 76,926; Feb. 22; Gaz. vol. 151; p. 1011.
Wine, Still, sparkling, and fruit. Durlacher Bros. No. 76,906; Feb. 22; Gaz. vol. 151; p. 1010.
Wine, White. G. Aquino. No. 78,481; June 21; Gaz. vol. 155; p. 795.
Wines. Italian Swiss Colony. No. 78,181; May 31; Gaz. vol. 154; p. 1406.
Wines. S. Freshman. No. 79,270; Aug. 23; Gaz. vol. 157; p. 995.
Wines, Certain. H. B. Kirk & Co. No. 77,535; Apr. 19; Gaz. vol. 153; p. 818.
Wines, Claret and white. Barton & Guestier. No. 76,540; Jan. 25; Gaz. vol. 150; p. 1038.
Wines, Compound bitter. M. Bosak. No. 78,158; May 31; Gaz. vol. 154; p. 1406.
Wines, Red and white. Pessagno & Montresor. No. 78,630; June 28; Gaz. vol. 155; p. 1038.
Wire and metallic ribbons, Uninsulated metallic. Driver-Harris Wire Co. No. 77,049; Mar. 8; Gaz. vol. 152; p. 483.
Wire, Barbed. American Steel & Wire Company of New Jersey. No. 78,480; June 21; Gaz. vol. 155; p. 795.
Wire, Barbed. American Steel & Wire Company. No. 78,672; July 5; Gaz. vol. 156; p. 253.
Wire-cloth. Clinton Wire Cloth Company. No. 80,215; Nov. 22; Gaz. vol. 160; p. 1033.
Wire-cloth. Clinton Wire Cloth Company. No. 80,217; Nov. 22; Gaz. vol. 160; p. 1033.
Wire-cloth and certain named hardware. Ludlow-Saylor Wire Company. No. 80,231; Nov. 22; Gaz. vol. 160; p. 1033.
Wire fabrics for screens. The W. S. Tyler Company. No. 78,553; June 21; Gaz. vol. 155; p. 797.
Wire fabrics for screens. W. S. Tyler Company. No 79,615; Sept. 20; Gaz. vol. 158; p. 699.
Wire-netting. Clinton Wire Cloth Company. No. 80,216; Nov. 22; Gaz. vol. 160; p. 1033.
Wire rope. The Trenton Iron Company. No. 78,365; June 7; Gaz. vol. 155; p. 303.
Wire rope. Mill & Mine Supply Co. No. 79,508; Sept. 13; Gaz. vol. 158; p. 478.
Wire screen-cloth. New York Wire Cloth Company. No. 80,145; Nov. 8; Gaz. vol. 160; p. 490.
Wire screens used as spark-arresters. The W. S. Tyler Company. No. 76,608; Feb. 1; Gaz. vol. 151; p. 190.
Wire, Spring-. Page Woven Wire Fence Co. Nos. 78,345–7; June 7; Gaz. vol. 155; p. 302.
Wire straightening and cutting-off machines. The Franklin Manufacturing Company. No. 78,703; July 5; Gaz. vol. 156; p. 254.
Wire, Uninsulated metallic. Driver-Harris Wire Co. No. 77,050; Mar. 8; Gaz. vol. 152; p. 483.
Wood-polish. B. Miller. No. 79,921; Oct. 18; Gaz. vol. 159; p. 744.
Wood substitute, Fireproof weatherproof. J. H. Miller. No. 78,891; July 19; Gaz. vol. 156; p. 794.
Woodworking machinery. S. A. Woods Machine Co. No. 77,959; May 17; Gaz. vol. 154; p. 833.
Wool, worsted, or hair cloths and stuffs. J. T. Clay & Sons. No. 76,569; Feb. 1; Gaz. vol. 151; p. 189.
Woolen and cotton piece goods. Hamilton Woolen Co. No. 77,051; Mar. 8; Gaz. vol. 152; p. 483.
Woolen and cotton piece goods. Hamilton Woolen Company. No. 80,314; Dec. 6; Gaz. vol. 161; p. 263.
Woolen, cotton, linen, and silk piece goods. The Wm. B. Jennings Co. No. 77,502; Apr. 12; Gaz. vol. 153; p. 543.
Woolen piece goods. S. Stein & Co. No. 80,388; Dec. 13; Gaz. vol. 161; p. 526.
Woolen piece goods, linings, and blankets. The Mianus Mfg. Co. No. 78,621; June 28; Gaz. vol. 155; p. 1038.
Worsted and cotton piece goods. A. H. & F. L. Sayles. No. 77,960; May 17; Gaz. vol. 154; p. 833.
Worsted and woolen piece goods. Downing, Clark & Co. No. 78,594; June 28; Gaz. vol. 155; p. 1037.
Worsted piece goods. Tremont Worsted Co. No. 79,087; Aug. 2; Gaz. vol. 157; p. 204.
Worsted piece goods. Martin Sons and Company. No. 79,591; Sept. 20; Gaz. vol. 158; p. 698.
Wrench, Combination-. A. Roren. No. 80,240; Nov. 22; Gaz. vol. 160; p. 1034.
Wrenches. Q. M. S. Co. No. 77,094; Mar. 8; Gaz. vol. 152; p. 484.
Wrenches. L. V. Aronson. No. 77,284; Mar. 29; Gaz. vol. 152; p. 1219.
Wrenches. The Whitman & Barnes Manufacturing Company. No. 77,973; May 17; Gaz. vol. 154; p. 833.
Writing-tablets, composition-books, and writing-paper. Educational Tablet Co. No. 77,040; Mar. 1; Gaz. vol. 152; p. 227.
Yarn, Worsted. B. Ulmann & Co. No. 79,538; Sept. 13; Gaz. vol. 158; p. 479.
Yarns and threads. J. Lonke. No. 78,982; July 26; Gaz. vol. 156; p. 1062.
Yarns, Certain silk. B. Ulmann & Co. No. 79,239; Aug. 16; Gaz. vol. 157; p. 750.
Yarns, Fancy. Farbenfabriken of Elberfeld Company. Nos. 77,231–2; Mar. 22; Gaz. vol. 152; p. 954.
Yarns, Mercerized, &c., cotton. Harding Tilton & Company. No. 80,054; Nov. 1; Gaz. vol. 160; p. 254.
Yeast, Compressed. Standard Compressed Yeast Company. No. 79,704; Sept. 27; Gaz. vol. 158; p. 880.
Yeast, Extract of. The Marmite Food Extract Co. No. 79,220; Aug. 16; Gaz. vol. 157; p. 750.
Yokes, yoke and pole-strap connections, &c., Neck-. C. B. Schleicher. No. 80,442; Dec. 20; Gaz. vol. 161; p. 750.
Zinc-white. Société Anonyme des Mines et Fonderies de Zinc de la Vieille Montagne. No. 79,306; Aug. 23; Gaz. vol. 157; p. 996.
Zwieback. F. Kraft. No. 78,248; May 31; Gaz. vol. 154; p. 1408.

ALPHABETICAL LIST OF LABELS.

"A Remedy For The Relief Of Rhumatism, Piles, Corns, Bunnions, Sores, Sprains, Burns, Sore Throat, Felons, Tooth Ache And Blood Poisoning." (For a Medicine.) A. E. Floyd. No. 15,264; July 26; Gaz. vol. 156; p. 1064.

"Aberth's Clothes Cleanser." (For a Compound for Cleansing Clothes.) W. C. Aberth. No. 15,187; May 24; Gaz. vol. 154; p. 1106.

"Absorb-O." (For a Remedy for Diseases of Horses.) F. C. Hopkins. No. 15,364; Oct. 18; Gaz. vol. 159; p. 746.

"Ad-El-Ite." (For Paint Specialties.) Adams & Elting Company. No. 15,402; Nov. 22; Gaz. vol. 160; p. 1035.

"Adagio." (For Cigars.) G. Dottling. No. 15,101; Mar. 1; Gaz. vol. 152; p. 228.

"Adamant the Perfection of Exterior Plaster." (For Exterior Plaster.) The United States Gypsum Company. No. 15,204; June 7; Gaz. vol. 155; p. 304.

"Adamant the Perfection of Wall Plaster." (For Wall-Plaster.) The United States Gypsum Company. No. 15,205; June 7; Gaz. vol. 155; p. 304.

"Ade O'Metto or Saw-Palmetto Ade." (For a Powder for Making a Carbonated Non-Alcoholic Beverage.) R. J. Gillham. No. 15,255; July 19; Gaz. vol. 156; p. 796.

"Adrastos." (For Cigars.) G. Dottling. No. 15,086; Feb. 22; Gaz. vol. 151; p. 1012.

"Agnola." (For Cigars.) G. Dottling. No. 15,099; Mar. 1; Gaz. vol. 152; p. 228.

"Almora." (For Cigars.) R. T. Kreipe Cigar Co. No. 15,139; Apr. 12; Gaz. vol. 153; p. 544.

"American Beauty Kid Dolls." (For Dolls.) Sears, Roebuck and Co. No. 15,218; June 21; Gaz. vol. 155; p. 798.

"American Lady Silko Hose." (For Children's, Misses', and Women's Hosiery.) W. Bodek Company. No. 15,311; Aug. 30; Gaz. vol. 157; p. 1242.

"Andico." (For a Polishing Compound.) The Anti-Dirt Company. No. 15,157; Apr. 19; Gaz. vol. 153; p. 820.

"Anti-Tan." (For Massage and Face Lotion.) J. Ferguson. No. 15,427; Dec. 20; Ga. vol. 161; p. 751.

"Antipyogen." (For Surgical Dressings.) Surgical Oil Manufacturing Company. No. 15,394; Nov. 15; Gaz. vol. 160; p. 771.

"Anu-Biscuit." (For Biscuits.) Iten Biscuit Co. No. 15,232; July 5; Gaz. vol. 156; p. 256.

"Apex." (For Rice.) F. S. Curtis. No. 15,079; Feb. 8; Gaz. vol. 151; p. 448.

"Arctic Brand." (For Evaporated Apples.) Seneca Dried Fruit Company. No. 15,236; July 5; Gaz. vol. 156; p. 256.

"Assindia." (For Cigars.) G. Dottling. No. 15,084; Feb. 22; Gaz. vol. 151; p. 1012.

"Auto-Laks." (For Medicated Chocolates of a Laxative Nature.) Union Co-operative Association. No. 15,399; Nov. 22; Gaz. vol. 160; p. 1035.

"Azori." (For Cigars.) G. Dottling. No. 15,098; Mar. 1; Gaz. vol. 152; p. 228.

"B R K Germicide." (For a Germicide.) B. R. Kunz. No. 15,375; Oct. 25; Gaz. vol. 159; p. 990.

"Banner Oak." (For Cigars.) The Moehle Lithographic Co. No. 15,176; May 17; Gaz. vol. 154; p. 834.

"Banner Rose." (For Cigars.) The Moehle Lithographic Co. No. 15,191; May 31; Gaz. vol. 154; p. 1410.

"Base Ball Shooting Gallery." (For Toy Shooting-Galleries.) B. B. Bennett. No. 15,389; Nov. 8; Gaz. vol. 160; p. 491.

"Bay Of Naples." (For Macaroni.) The Mueller & Son Co. No. 15,306; Aug. 30; Gaz. vol. 157; p. 1242.

"Bear's Exquisite Cold Cream." (For Ointment.) M. M. Bear. No. 15,170; May 3; Gaz. vol. 154; p. 250.

"Bedford." (For Collars.) Cluett, Peabody & Co. No. 15,286; Aug. 9; Gaz. vol. 157; p. 484.

"Beinlich's Mustard." (For Mustard.) P. Beinlich. No. 15,298; Aug. 23; Gaz. vol. 157; p. 998.

"Betsy Ross." (For Collars.) Cluett, Peabody & Co. No. 15,291; Aug. 9; Gaz. vol. 157; p. 484.

"Black Silk." (For Stove-Polish.) Black Silk Stove Polish Works. No. 15,280; Aug. 2; Gaz. vol. 157; p. 205.

"Blauhut." (For Cigars.) G. Dottling. No. 15,097; Mar. 1; Gaz. vol. 152; p. 228.

"Block Milk Biscuit." (For Biscuit.) F. E. Block Co. No. 15,224; June 28; Gaz. vol. 155; p. 1040.

"Blossom Apple Label." (For Apples.) O. E. Olsen Litho Co. No. 15,385; Nov. 8; Gaz. vol. 160; p. 491.

"Boulder Creamery Butter." (For Butter.) G. L. Reed. No. 15,351; Oct. 11; Gaz. vol. 159; p. 488.

"Brabantio." (For Cigars.) G. Dottling. No. 15,085; Feb. 22; Gaz. vol. 151; p. 1012.

"Breen's British Blend." (For Blended Tea.) T. G. Breen. No. 15,331; Sept. 27; Gaz. vol. 158; p. 882.

"Bryant's Benzine." (For Fireproof Benzin.) The Lithos Chemical Company. No. 15,400; Nov. 22; Gaz. vol. 160; p. 1035.

"Bull Dog Gloves." (For Kid Gloves.) A. A. Kiewitz. No. 15,443; Dec. 27; Gaz. vol. 161; p. 1041.

"Bunas." (For Cigars.) G. Dottling. No. 15,083; Feb. 22; Gaz. vol. 151; p. 1012.

"Burlington Brew." (For Beer.) Karle Lithographic Company. No. 15,166; May 3; Gaz. vol. 154; p. 250.

"Buster Brown Ruby Brand Sparklers." (For Fireworks.) Lloyd Manufacturing Co. No. 15,222; June 21; Gaz. vol. 155; p. 798.

"Butter-Krust." (For Bread.) Haller Bread Co. No. 15,172; May 10; Gaz. vol. 154; p. 513.

"Button-Button." (For a Game.) F. F. Honeck. No. 15,190; May 24; Gaz. vol. 154; p. 1106.

"Cancer Remedy Suss Original Cancer Remedy." (For Cancer Remedy.) J. H. Suss, M. T. D. No. 15,265; July 26; Gaz. vol. 156; p. 1064.

"Canova." (For Coffee.) Maury-Cole Company. No. 15,118; Mar. 8; Gaz. vol. 152; p. 486.

"Capital and Labor." (For a Puzzle.) E. S. Towson. No. 15,252; July 12; Gaz. vol. 156; p. 536.

"Carmena." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,348; Oct. 11; Gaz. vol. 159; p. 488.

"Cascadia Natural Mineral Water." (For Natural Mineral Water.) G. M. Geisendorfer. No. 15,075; Jan. 25; Gaz. vol. 150; p. 1039.

"Celtic Tea." (For Belfast Blended Tea.) Acker, Merrall & Condit Company. No. 15,297; Aug. 23; Gaz. vol. 157; p. 998.

"Celtic Tea." (For Blended Tea.) Acker, Merrall & Condit Company. No. 15,338; Oct. 4; Gaz. vol. 159; p. 240.

"Chantecler Chocolate Candies." (For Chocolate Candies.) Huyler's. No. 15,353; Oct. 11; Gaz. vol. 159; p. 488.

"Charles The Fourth." (For Cigars.) W. E. Jenkins Cigar Co. No. 15,350; Oct. 11; Gaz. vol. 159; p. 488.

"Chas. H. Rath's A$\frac{A}{One}$1 The Best Metal-Polish on Earth." (For Metal-Polish.) Charles H. Rath Company. No. 15,270; July 26; Gaz. vol. 156; p. 1064.

"Cherry-Ko." (For a Carbonated Tonic Beverage.) O. F. Eisenhut. No. 15,425; Dec. 20; Gaz. vol. 161; p. 751.

"Chocolate Bark." (For a Chocolate Confection.) Ambrosia Chocolate Company. No. 15,308; Aug. 30; Gaz. vol. 157; p. 1242.

"Chocolate Coated Tidbits." (For Candy.) C. A. Adams. No. 15,132; Apr. 5; Gaz. vol. 153; p. 269.

"Chocolate Nuts." (For Prepared Food.) K. H. Rommel. No. 15,179; May 17; Gaz. vol. 154; p. 834.

"Clifton." (For Collars.) Cluett, Peabody & Co. No. 15,290; Aug. 9; Gaz. vol. 157; p. 484.

"Clinton-Premier Spring Beds." (For All-Wire Spring-Beds.) Clinton Furniture Co. No. 15,312; Aug. 30; Gaz. vol. 157; p. 1242.

"Coal Tar Disinfectant C T D." (For a Disinfectant.) B. Grosche. No. 15,142; Apr. 12; Gaz. vol. 153; p. 544.

"Colonial Pride." (For Cigars.) The Moehle Lithographic Co. No. 15,087; Feb. 22; Gaz. vol. 151; p. 1012.

"Concord." (For Collars.) Cluett, Peabody & Co. No. 15,284; Aug. 9; Gaz. vol. 157; p. 484.

"Corrosive Sublimcohol." (For a Disinfectant and Insecticide.) F. W. Dorr. No. 15,094; Feb. 22; Gaz. vol. 151; p. 1012.

"Corvo Casteldaccia." (For Wine.) E. A. D. Di Salaparuta. No. 15,207; June 14; Gaz. vol. 155; p. 552.

"Creamo." (For Soap.) G. C. Hardiman. No. 15,108; Mar. 1; Gaz. vol. 152; p. 228.

"Creditor's Blue-Ledger." (For Ledgers.) D. F. Davenport. No. 15,418; Dec. 6; Gaz. vol. 161; p. 265.

"Crescendo." (For Cigars.) G. Dottling. No. 15,100; Mar. 1; Gaz. vol. 152; p. 228.

"Crystal." (For Rice.) Portland Rice Milling Co. No. 15,352; Oct. 11; Gaz. vol. 159; p. 488.

"Cuban Club." (For Cigars.) The Moehle Lithographic Co. No. 15,089; Feb. 22; Gaz. vol. 151; p. 1012.

"Cuban Import." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,349; Oct. 11; Gaz. vol. 159; p. 488.

"Cuban Inn." (For Cigars.) Schmidt & Co. No. 15,376; Nov. 1; Gaz. vol. 160; p. 256.

"Cupid." (For Rice.) F. S. Curtis. No. 15,110; Mar. 8; Gaz. vol. 152; p. 486.

"Daily Report." (For Cigars.) Schmidt & Co. No. 15,377; Nov. 1; Gaz. vol. 160; p. 256.

"Dainty Dorothy." (For Dolls.) Sears, Roebuck and Co. No. 15,342; Oct. 4; Gaz. vol. 159; p. 240.

Alphabetical list of labels—Continued.

"Daniel's Witch Hazel." (For Witch-Hazel.) Dr. A. C. Daniels. No. 15,186; May 24; Gaz. vol. 154; p. 1106.
"Darby's Candy Base Ball Game." (For Confectionery.) Darby Candy Co. No. 15,410; Nov. 29; Gaz. vol. 160; p. 1269.
"Darling Brand Cream Cheese." (For Cream-Cheese.) Dorman Bros. No. 15,420; Dec. 13; Gaz. vol. 161; p. 527.
"Darn-Less Hosiery." (For Hosiery.) Buster Brown Hosiery Mills. No. 15,417; Dec. 6; Gaz. vol. 161; p. 265.
"Decision." (For Cigars.) E. A. Kline & Co. No. 15,168; May 3; Gaz. vol. 154; p. 250.
"Dehydro." (For Dehydrated Fruits and Vegetables.) American Dehydrated Company. No. 15,363; Oct. 18; Gaz. vol. 159; p. 746.
"Delicious Sausages, Heart's Delight Farm." (For Sausages.) W. H. Miner. No. 15,105; Mar. 1; Gaz. vol. 152; p. 228.
"Deodorant Dip and Disinfectant D D D." (For a Disinfectant.) B. Grosche. No. 15,143; Apr. 12; Gaz. vol. 153; p. 544.
"Dimond's Egg Maker and Chick Grower." (For Poultry Food.) J. S. Dimond. No. 15,198; May 31; Gaz. vol. 154; p. 1410.
"Do Uwanta E Z Wash?" (For Washing Compound.) W. V. R. Heckman. No. 15,181; May 17; Gaz. vol. 154; p. 834.
"Doctor Leondos Dermatonic." (For a Medicinal Skin-Tonic.) L. Dalsimer. No. 15,259; July 19; Gaz. vol. 156; p. 796.
"Domesco Brand." (For Laundry Starch.) Domestic Finish Starch Company. No. 15,411; Nov. 29; Gaz. vol. 160; p. 1269.
"Dove Brand." (For Sliced Ham.) The Automatic Sliced Ham Co. No. 15,178; May 17; Gaz. vol. 154; p. 834.
"Duke of Maya." (For Cigars.) Andy Dehner Cigar Co. No. 15,247; July 12; Gaz. vol. 156; p. 536.
"Dulce." (For Cigars.) S. Sanchez y Ca. No. 15,229; July 5; Gaz. vol. 156; p. 256.
"E-Z-Laks." (For Medicated Chocolates of a Laxative Nature.) Union Co-operative Association. No. 15,387; Nov. 8; Gaz. vol. 160; p. 491.
"Eagle Brand." (For Olive-Oil.) L. Kelhetter. No. 15,134; Apr. 5; Gaz. vol. 153; p. 260.
"Ebling's Braunschweiger Mumme." (For Extract of Malt and Hops.) The Ebling Brewing Company. No. 15,282; Aug. 9; Gaz. vol. 157; p. 484.
"Ehren Bräu." (For Old German Style of Beer.) Wilmanns Bros. Co. No. 15,109; Mar. 8; Gaz. vol. 152; p. 486.
"El Como." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,346; Oct. 11; Gaz. vol. 159; p. 488.
"El Dictator." (For Cigars.) J. F. Long. No. 15,281; Aug. 9; Gaz. vol. 157; p. 484.
"Evanston." (For Collars.) Cluett, Peabody & Co. No. 15,287; Aug. 9; Gaz. vol. 157; p. 484.
"Evergreen Brand Flower and Lawn Fertilizer." (For Fertilizer.) D. D. Johnson. No. 15,200; May 31; Gaz. vol. 154; p. 1410.
"Every Egg A Perfect Bait." (For Salmon-Eggs to be Used as Fish-Baits.) J. E. Hubbart. No. 15,439; Dec. 27; Gaz. vol. 161; p. 1041.
"Ferndale." (For Chocolates.) Quaker City Chocolate & Confectionery Co. No. 15,159; Apr. 26; Gaz. vol. 153; p. 1080.
"Flor." (For Cigars.) Schmidt & Co. No. 15,359; Oct. 18; Gaz. vol. 159; p. 746.
"Franks' Red Label." (For Cigars.) F. A. Franks Cigar Mfg. Co. No. 15,136; Apr. 12; Gaz. vol. 153; p. 544.
"French Market." (For Roasted Coffee and Chicory.) New Orleans Coffee Co. No. 15,171; May 10; Gaz. vol. 154; p. 513.
"Friends of The Ham." (For Sliced Ham.) The Automatic Sliced Ham Co. No. 15,195; May 31; Gaz. vol. 154; p. 1410.
"Fruit and Cereal." (For Powdered Sugar.) James A. McAteer & Sons. No. 15,256; July 19; Gaz. vol. 156; p. 796.
"Fruito." (For Chewing-Gum.) Newton Gum Co. No. 15,434; Dec. 27; Gaz. vol. 161; p. 1041.
"Fulton's Steamboat Havana Cigars." (For Cigars.) Burns Cigar Company. No. 15,337; Oct. 4; Gaz. vol. 159; p. 240.
"Germa Oil." (For a Medicine.) A. W. O'Brian & Co. No. 15,196; May 31; Gaz. vol. 154; p. 1410.
"Getreide-Kümmel." (For Kümmel.) E. Lichtwitz & Co. No. 15,183; May 24; Gaz. vol. 154; p. 1106.
"Ginseng Chewing Gum." (For Chewing-Gum.) The Ginseng Gum Company. No. 15,433; Dec. 27; Gaz. vol. 161; p. 1041.
"Girard." (For Collars.) Cluett, Peabody & Co. No. 15,289; Aug. 9; Gaz. vol. 157; p. 484.
"Gladstone Rawhide." (For Whips.) Sears, Roebuck and Co. No. 15,320; Sept. 13; Gaz. vol. 158; p. 480.
"Glycoline Tooth Powder." (For Tooth-Powder.) Portland Dental Mfg. Co. No. 15,120; Mar. 8; Gaz. vol. 152; p. 486.
"Glycoline Tooth Wash." (For Tooth-Wash.) Portland Dental Mfg. Co. No. 15,077; Jan. 25; Gaz. vol. 150; p. 1039.
"Gobbler." (For Cigars.) Jacobs & Holtzinger Co. No. 15,096; Mar. 1; Gaz. vol. 152; p. 228.
"Gold Medal Metal Polish." (For Metal-Polish.) Smith Brothers Hardware Co. No. 15,112; Mar. 8; Gaz. vol. 152; p. 486.
"Golden Crown." (For Knitting-Yarns.) Sears, Roebuck and Co. No. 15,253; July 12; Gaz. vol. 156; p. 536.
"Golden Dome Chocolate Dixies." (For Candy.) C. A. Adams. No. 15,131; Apr. 5; Gaz. vol. 153; p. 269.
"Golden Fin Brand Native Smoked Sardines." (For Canned Smoked Sardines.) Neptune Packing Co. No. 15,379; Nov. 1; Gaz. vol. 160; p. 256.
"Gossau Madeira Finish Embroidery." (For Embroidery.) Sears, Roebuck and Co. No. 15,174; May 10; Gaz. vol. 154; p. 513.
"Gottmann & Kretchmer Chocolate and Candy Makers." (For Chocolate and Candies.) Gottmann & Kretchmer. Nos. 15,090–2; Feb. 22; Gaz. vol. 151; p. 1012.
"Gov. Johnson." (For Cigars.) M. McGuirk. No. 15,212; June 21; Gaz. vol. 155; p. 798.
"Gran Reina." (For Cigars.) Schmidt & Co. No. 15,272; Aug. 2; Gaz. vol. 157; p. 205.
"Grandmont." (For Cigars.) American Lithographic Company. No. 15,358; Oct. 18; Gaz. vol. 159; p. 746.
"Grape Creme." (For a Beverage Made from Grape-Juice.) The Consumers Company of Rochester, N. Y. No. 15,382; Nov. 8; Gaz. vol. 160; p. 491.
"Gray Bonnet." (For Cigars.) A. C. Henschel & Co. No. 15,254; July 19; Gaz. vol. 156; p. 796.
"H. Rippen Cork Tip." (For Cigarettes.) H. Rippen. No. 15,273; Aug. 2; Gaz. vol. 157; p. 205.
"Hall's Star." (For Cigars.) W. A. Hall. No. 15,137; Apr. 12; Gaz. vol. 153; p. 544.
"Hamby's Genuine Dawson Springs Water." (For Natural Spring-Water.) Dawson Salts & Water Co. No. 15,422; Dec. 13; Gaz. vol. 161; p. 527.
"Hamby's High Ball Splits." (For Natural Carbonated Spring-Water.) Dawson Salts & Water Co. No. 15,421; Dec. 13; Gaz. vol. 161; p. 527.
"Harvester." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,158; Apr. 26; Gaz. vol. 153; p. 1080.
"Heart's Delight Farm, Strictly Pure Maple Syrup." (For Maple-Syrup.) W. H. Miner. No. 15,103; Mar. 1; Gaz. vol. 152; p. 228.
"Heidland's 5¢ Gold Medal Bread." (For Bread.) Heidland Baking Co. No. 15,231; July 5; Gaz. vol. 156; p. 256.
"Helene Varre." (For Toilet Talcum Powder.) C. Tetlow. No. 15,182; May 17; Gaz. vol. 154; p. 834.
"Heuslers Ale." (For Ale.) The James R. Heusler Ale Brg. Co. No. 15,138; Apr. 12; Gaz. vol. 153; p. 544.
"High Ranger." (For Cigars.) The Moehle Lithographic Co. No. 15,206; June 14; Gaz. vol. 155; p. 552.
"Highspire." (For Carpets and Floor-Coverings.) C. H. Masland & Sons. No. 15,404; Nov. 22; Gaz. vol. 160; p. 1035.
"Hindoo Through Rawhide." (For Whips.) Sears, Roebuck and Co. No. 15,322; Sept. 13; Gaz. vol. 158; p. 480.
"Hindura." (For Preparation for Polishing.) P. S. Tyler. No. 15,122; Mar. 8; Gaz. vol. 152; p. 486.
"Humbert." (For Collars.) Cluett, Peabody & Co. No. 15,285; Aug. 9; Gaz. vol. 157; p. 484.
"Hurwitz's Large Havana Stogies." (For Stogies.) A. Hurwitz. No. 15,372; Oct. 25; Gaz. vol. 159; p. 990.
"Hyde Park Bottled Beer." (For Beer.) St. Louis Brewing Association. No. 15,081; Feb. 15; Gaz. vol. 151; p. 729.
"Imperial Derma-Creme." (For Massage-Cream.) Imperial Remedy Co. No. 15,243; July 5; Gaz. vol. 156; p. 256.
"Independent Bakery Co. Eagle Bread." (For Bread.) Independent Bakery Co. No. 15,332; Sept. 27; Gaz. vol. 158; p. 882.
"Indian Hermit Mineral Water." (For Natural Mineral Water.) Indian Hermit Spring Co. No. 15,119; Mar. 8; Gaz. vol. 152; p. 486.
"Iron Wild Cherry And Honey Phosphates." (For a Medicine.) R. Stumpf. No. 15,437; Dec. 27; Gaz. vol. 161; p. 1041.
"Jacob Hornung's White Bock Beer." (For Bottled Beer.) J. Hornung. No. 15,391; Nov. 15; Gaz. vol. 160; p. 771.
"Japanese Toilet Tissue." (For Toilet-Paper.) Cornell & Ward. No. 15,211; June 14; Gaz. vol. 155; p. 552.
"Jersey Whiskey." (For a Blend of Whiskies.) Arthur Lehman & Co. No. 15,262; July 26; Gaz. vol. 156; p. 1064.
"Jewel Broom." (For Brooms.) Tully Broom Company. No. 15,414; Nov. 29; Gaz. vol. 160; p. 1269.
"Jingo." (For a Wash for Horses.) G. E. Glenn. No. 15,129; Mar. 29; Gaz. vol. 152; p. 1222.
"Joeckelseal." (For a Substitute for Sealskin.) L. Platky. No. 15,113; Mar. 8; Gaz. vol. 152; p. 486.
"John Trumbull." (For Cigars.) The Moehle Lithographic Co. No. 15,177; May 17; Gaz. vol. 154; p. 834.

Alphabetical list of labels—Continued.

"Jones' Cabbage Worm Killer." (For Cabbage-Worm Killer.) O. S. Jones Seed Co. No. 15,268; July 26; Gaz. vol. 156; p. 1064.
"Jones' Potato Bug Killer." (For Potato-Bug Killer.) O. S. Jones Seed Co. No. 15,267; July 26; Gaz. vol. 156; p. 1064.
"Jose Ribera." (For Cigars.) J. V. O'Connell. No. 15,390; Nov. 15; Gaz. vol. 160; p. 771.
"Kaptin Kiddo The Hero Doll." (For Dolls.) F. A. Hays. No. 15,261; July 19; Gaz. vol. 156; p. 796.
"Karya." (For Confectionery.) A. S. Zavitsiano. No. 15,241; July 5; Gaz. vol. 156; p. 256.
"Kennesaw Biscuit." (For Biscuit.) F. E. Block Co. No. 15,223; June 28; Gaz. vol. 155; p. 1040.
"Kerolene." (For Inhalers and Inhalants.) I. E. Levi. No. 15,076; Jan. 25; Gaz. vol. 150; p. 1039.
"Keystone Escutcheon Pins." (For Escutcheon-Pins.) L. F. Grammes & Sons. No. 15,412; Nov. 29; Gaz. vol. 160; p. 1269.
"Kitchen Klenzer." (For Cleansing Compound.) Fitzpatrick Bros. No. 15,296; Aug. 16; Gaz. vol. 157; p. 751.
"Kleenhanz." (For a Compound for Cleaning the Hands.) Nelson Bros. No. 15,356; Oct. 11; Gaz. vol. 159; p. 488.
"Klondike Tablet." (For Writing-Tablets.) Osborn Paper Company. No. 15,215; June 21; Gaz. vol. 155; p. 798.
"Knickerbocker Beer." (For Beer.) J. Ruppert. No. 15,275; Aug. 2; Gaz. vol. 157; p. 205.
"Knock Out." (For Dolls.) Sears, Roebuck and Co. No. 15,341; Oct. 4; Gaz. vol. 159; p. 240.
"La Comandita." (For Cigars.) American Colortype Company. No. 15,117; Mar. 8; Gaz. vol. 152; p. 486.
"La Comandita." (For Cigars.) American Colortype Company. No. 15,128; Mar. 29; Gaz. vol. 152; p. 1222.
"La Orquita." (For Cigars.) American Colortype Company. No. 15,116; Mar. 8; Gaz. vol. 152; p. 486.
"La Orquita." (For Cigars.) American Colortype Company. No. 15,127; Mar. 29; Gaz. vol. 152; p. 1222.
"La Pluma." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,371; Oct. 25; Gaz. vol. 159; p. 990.
"La Princesse Therese." (For Toilet Talcum Powder.) C. Tetlow. No. 15,135; Apr. 5; Gaz. vol. 153; p. 269.
"La Rosa de Cuba." (For Cigars.) The Moehle Lithographic Co. No. 15,088; Feb. 22; Gaz. vol. 151; p. 1012.
"La Valliere." (For Talcum Powder.) Finlay, Dicks & Company. No. 15,279; Aug. 2; Gaz. vol. 157; p. 205.
"La Vista Del Vuelta." (For Cigars.) The Moehle Lithographic Co. No. 15,175; May 17; Gaz. vol. 154; p. 834.
"La Zar." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,347; Oct. 11; Gaz. vol. 159; p. 488.
"Lady Betty." (For Chocolates.) P. F. Beich Co. No. 15,354; Oct. 11; Gaz. vol. 159; p. 488.
"League Base Ball Game Real Base Ball At Home." (For a Game of Base-Ball.) American Games Manufacturing Company. No. 15,403; Nov. 22; Gaz. vol. 160; p. 1035.
"Let The Little Brownies Do The Work." (For Laxatives.) Brown Drug Co. No. 15,416; Dec. 6; Gaz. vol. 161; p. 265.
"Lifestaff The Long Storage Beer." (For Bottled Beer.) A. O. Gutsch. No. 15,431; Dec. 27; Gaz. vol. 161; p. 1041.
"Lily Brand Fruit Tablets." (For Flavored Candies.) L. B. Worrell. No. 15,248; July 12; Gaz. vol. 156; p. 536.
"Limko Extract." (For an Extract for Making Beverages.) J. H. Nicholson. No. 15,329; Sept. 27; Gaz. vol. 158; p. 882.
"Litewate American Silko Half Hose." (For Hosiery.) W. Bodek Company. No. 15,300; Aug. 23; Gaz. vol. 157; p. 998.
"Little Cherub." (For Dolls.) Sears, Roebuck and Co. No. 15,340; Oct. 4; Gaz. vol. 159; p. 240.
"Little Naes." (For Cigars.) L. Naes. No. 15,408; Nov. 29; Gaz. vol. 160; p. 1269.
"Lowry's 'Besti Water.'" (For Eye-Water.) H. T. Lowry. No. 15,317; Sept. 6; Gaz. vol. 158; p. 226.
"Lucky Dog." (For Canned Salmon.) G. W. Sanborn. No. 15,380; Nov. 1; Gaz. vol. 160; p. 256.
"Lustre Creme." (For Polishing Preparation.) Western Novelty M'fg Company. No. 15,269; July 26; Gaz. vol. 156; p. 1064.
"Magic Rawhide." (For Whips.) Sears, Roebuck and Co. No. 15,319; Sept. 13; Gaz. vol. 158; p. 480.
"Magnolia Brand." (For Evaporated Apples.) Seneca Dried Fruit Company. No. 15,237; July 5; Gaz. vol. 156; p. 256.
"Maldehyde." (For Antiseptic Preparation, Astringent, and Germicide.) J. A. Weipert. No. 15,310; Aug. 30; Gaz. vol. 157; p. 1242.
"Manufactory Of Choice Egyptian Cigarettes." (For Cigarettes.) T. Vafiadis & Co. No. 15,378; Nov. 1; Gaz. vol. 160; p. 256.
"Mapl-Corn Flakes." (For Prepared Breakfast Foods.) Hygienic Food Co. No. 15,155; Apr. 19; Gaz. vol. 153; p. 820.
"Margate." (For Collars.) Cluett, Peabody & Co. No. 15,283; Aug. 9; Gaz. vol. 157; p. 484.
"Mendell's Jiu Jitsu Kandi Suker." (For Candy.) J. Mendell. No. 15,240; July 5; Gaz. vol. 156; p. 256.
"Metropolitan Chocolate." (For Chocolate.) Huyler's. No. 15,150; Apr. 19; Gaz. vol. 153; p. 820.
"Mineola." (For Cigars.) J. Gonzalez. No. 15,327; Sept. 27; Gaz. vol. 158; p. 882.
"Mint Chips." (For Chewing-Gum.) Colgan Gum Co. No. 15,225; June 28; Gaz. vol. 155; p. 1040.
"Mint Chips." (For Chewing-Gum.) Colgan Gum Co. No. 15,316; Sept. 6; Gaz. vol. 158; p. 226.
"Minto." (For Chewing-Gum.) Newton Gum Co. No. 15,435; Dec. 27; Gaz. vol. 161; p. 1041.
"Moon Beam." (For Coffee.) The General Service Company. No. 15,192; May 31; Gaz vol. 154; p. 1410.
"Mrs. Morrison's Pure Home-Made Food Products." (For Food Products.) A. A. Deiser & Co. No. 15,078; Feb. 8; Gaz. vol. 151; p. 448.
"New Orleans Creole Cooked Oysters." (For Canned Oysters.) Biloxi Canning Co. No. 15,169; May 3; Gaz. vol. 154; p. 250.
"New Process Milk Chocolate." (For Chocolate.) Huyler's. No. 15,278; Aug. 2; Gaz. vol. 157; p. 205.
"Nix-Rub." (For Soap.) Fitzpatrick Bros. No. 15,093; Feb. 22; Gaz. vol. 151; p. 1012.
"No-Sticky to the Washy." (For a Tablet to be Added to Starch to Prevent Sticking.) H. Rooten. No. 15,074; Jan. 4; Gaz. vol. 150; p. 264.
"O. I. C. Barb Wire Beater and Gall Powder." (For Gall-Powder.) C. C. Ganz & Co. No. 15,250; July 12; Gaz. vol. 156; p. 536.
"'O. P. C.' 'Javarice' Face Powder." (For Face-Powders.) Oxygen Products Company. No. 15,295; Aug. 16; Gaz. vol. 157; p. 751.
"O. U. Auto 5¢ Cigar." (For Cigars.) Burns Cigar Company. No. 15,336; Oct. 4; Gaz. vol. 159; p. 240.
"Old Bridgeport Monongahela Pure Rye Whiskey." (For Straight Rye Whisky.) Hamburger Distillery. No. 15,397; Nov. 22; Gaz. vol. 160; p. 1035.
"Old German Lager." (For Beer.) Independent Brewing Co. No. 15,274; Aug. 2; Gaz. vol. 157; p. 205.
"Old Taylor, A Straight Kentucky Whiskey of Topmost Class." (For Whisky.) E. H. Taylor, Jr. & Sons. No. 15,102; Mar. 1; Gaz. vol. 152; p. 228.
"Olivedale Brand California Ripe Olives." (For Ripe Olives.) E. C. Phoenix. No. 15,294; Aug. 16; Gaz. vol. 157; p. 751.
"Once A Year." (For Shoes.) J. K. Orr Shoe Company. No. 15,406; Nov. 22; Gaz. vol. 160; p. 1035.
"100,000 Club." (For Cigars.) Schmidt & Co. No. 15,303; Aug. 30; Gaz. vol. 157; p. 1242.
"Ooze." (For Soap.) W. M. Wilkes. No. 15,393; Nov. 15; Gaz. vol. 160; p. 771.
"Opinion." (For Cigars.) E. A. Kline & Co. No. 15,230; July 5; Gaz. vol. 156; p. 256.
"Our Pride Flour." (For Flour.) The Hudson Wholesale Grocery Company. No. 15,233; July 5; Gaz. vol. 156; p. 256.
"Oxidized." (For Cotton Piece Goods.) Burton Bros. & Co. No. 15,326; Sept. 20; Gaz. vol. 158; p. 700.
"Oxy The Peroxide Cream." (For Toilet Cream.) V. Halper. No. 15,185; May 24; Gaz. vol. 154; p. 1106.
"Ozark Queen." (For Sweet Scuppernong Wine.) Stone Hill Wine Co. No. 15,373; Oct. 25; Gaz. vol. 159; p. 990.
"P. Q." (For Medicine.) P. Q. Medicine Co. No. 15,107; Mar. 1; Gaz. vol. 152; p. 228.
"Pansy Kid Dolls." (For Dolls.) Sears, Roebuck and Co. No. 15,216; June 21; Gaz. vol. 155; p. 798.
"Peerless." (For Stamp-Inking Pads.) J. H. Bearns, Jr., & Co. No. 15,441; Dec. 27; Gaz. vol. 161; p. 1041.
"Pennant Chocolates Made By Darby." (For Chocolates.) The Darby Candy Company. No. 15,432; Dec. 27; Gaz. vol. 161; p. 1041.
"Peptomulsion." (For an Emulsion of Cod-Liver Oil Containing Hypophosphites of Calcium and Sodium, Pepsin, and Guiacol.) T. J. Ryan. No. 15,436; Dec. 27; Gaz. vol. 161; p. 1041.
"Peroxo." (For Toothpicks.) The Darhol Co. Nos. 15,209–10; June 14; Gaz. vol. 155; p. 552.
"Photo Stamp." (For Miniature Photographs.) R. A. Wilson. No. 15,251; July 12; Gaz. vol. 156; p. 536.
"Pilgram Brand." (For Evaporated Apples.) Seneca Dried Fruit Company. No. 15,258; July 19; Gaz. vol. 156; p. 796.
"Pillsbury's Carnation Staple." (For Staples for Mending Carnations.) I. L. Pillsbury. No. 15,111; Mar. 8; Gaz. vol. 152; p. 486.
"Plymouth Brand." (For Evaporated Apples.) Seneca Dried Fruit Company. No. 15,239; July 5; Gaz. vol. 156; p. 256.
"Polar Brand." (For Evaporated Apples.) Seneca Dried Fruit Company. No. 15,238; July 5; Gaz. vol. 156; p. 256.
"Pop-o Crystals." (For a Confection.) Knoblauch & Co. No. 15,123; Mar. 22; Gaz. vol. 152; p. 956.
"Poppy Apple Label." (For Apples.) O. E. Olsen Litho Co. No. 15,384; Nov. 8; Gaz. vol. 160; p. 491.
"Poppyrosa." (For Cigars.) American Colortype Company. No. 15,115; Mar. 8; Gaz. vol. 152; p. 486.

Alphabetical list of labels—Continued.

"Prym's See Its Spring." (For Dress-Fasteners.) The W. Prym Company. No. 15,318; Sept. 6; Gaz. vol. 158; p. 226.
"Prym's See Its Spring." (For Dress-Fasteners.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,429; Dec. 20; Gaz. vol. 161; p. 751.
"Purina Whole Wheat Bread." (For Whole-Wheat Bread.) Ralston Purina Company. No. 15,438; Dec. 27; Gaz. vol. 161; p. 1041.
"Purity Baking Powder." (For Baking-Powder.) Purity M'f'g Co. No. 15,133; Apr. 5; Gaz. vol. 153; p. 269.
"Pynetar Hair Tonic." (For Hair-Tonic.) O. D. Ettinger. No. 15,197; May 31; Gaz. vol. 154; p. 1410.
"Pyramid Brand." (For Evaporated Apples.) Seneca Dried Fruit Co. No. 15,153; Apr. 19; Gaz. vol. 153; p. 820.
"Quaker Pills." (For Pills.) Robert C. L. Boyd. No. 15,249; July 12; Gaz. vol. 156; p. 536.
"Quinn's Red Top 10¢ Cigar." (For Cigars.) D. J. Quinn. No. 15,292; Aug. 16; Gaz. vol. 157; p. 751.
"Rat Corn." (For a Powder for Exterminating Rodents.) Botanical Manufacturing Co. No. 15,357; Oct. 11; Gaz. vol. 159; p. 488.
"Ratoxin." (For Rat-Exterminators.) Continental Chemical Company of Ohio. No. 15,199; May 31; Gaz. vol. 154; p. 1410.
"Red-Rim." (For Cigars.) Schmidt & Co. No. 15,304; Aug. 30; Gaz. vol. 157; p. 1242.
"Regalia Imperial." (For Cigars.) Schmidt & Co. No. 15,313; Sept. 6; Gaz. vol. 158; p. 226.
"Regina D'Italia." (For Flour.) P. Montana. No. 15,234; July 5; Gaz. vol. 156; p. 256.
"Remington Rawhide." (For Whips.) Sears, Roebuck and Co. No. 15,321; Sept. 13; Gaz. vol. 158; p. 480.
"Restorina." (For Hair-Dye.) G. Sattler. No. 15,203; June 7; Gaz. vol. 155; p. 304.
"Reuter's Syrup." (For a Medicinal Preparation.) Barclay & Barclay. No. 15,226; June 28; Gaz. vol. 155; p. 1040.
"Rheumola." (For Medicines for Rheumatic Diseases.) W. C. Schuler, Jr. No. 15,173; May 10; Gaz. vol. 154; p. 513.
"Richmond Dye." (For Hosiery.) Richmond Hosiery Mills. No. 15,201; May 31; Gaz. vol. 154; p. 1410.
"Rizzo's Dandruff Remedy." (For Hair and Scalp Tonic.) M. Rizzo & Co. No. 15,425; Dec. 13; Gaz. vol. 161; p. 527.
"Roachleine." (For Roach-Powder.) A. J. Eugster. No. 15,395; Nov. 15; Gaz. vol. 160; p. 771.
"Rose Brand." (For Bottled Clam-Juice.) The Nissequogue Canning Co. No. 15,124; Mar. 29; Gaz. vol. 152; p. 1222.
"Round the World Scotch." (For Scotch Whisky.) J. Moroney. No. 15,082; Feb. 15; Gaz. vol. 151; p. 729.
"Royal Composition Book." (For Writing Books or Tablets.) Osborn Paper Company. No. 15,369; Oct. 18; Gaz. vol. 159; p. 746.
"Royal Exercise Book." (For Writing Books or Tablets.) Osborn Paper Company. No. 15,339; Oct. 4; Gaz. vol. 159; p. 240.
"Royal Luncheon Brick Cheese." (For Brick-Cheese.) J. Stoltenberg. No. 15,257; July 19; Gaz. vol. 156; p. 796.
"Royal Note Book." (For Writing Note-Books.) Osborn Paper Company. No. 15,368; Oct. 18; Gaz. vol. 159; p. 746.
"Royal Pen & Pencil Tablet." (For Writing Books or Tablets.) Osborn Paper Company. No. 15,365; Oct. 18; Gaz. vol. 159; p. 746.
"Royal Spelling Book." (For Books or Tablets for Use in Writing Out Spelling Exercises.) Osborn Paper Company. No. 15,388; Nov. 8; Gaz. vol. 160; p. 491.
"Royal Theme Tablet." (For Writing Books or Tablets.) Osborn Paper Company. No. 15,366; Oct. 18; Gaz. vol. 159; p. 746.
"Royal Writing Book." (For Writing Books or Tablets.) Osborn Paper Company. No. 15,367; Oct. 18; Gaz. vol. 159; p. 746.
"Ruppert's Tonic." (For Malt Beverage.) J. Ruppert. No. 15,276; Aug. 2; Gaz. vol. 157; p. 205.
"Salada." (For Coffee.) P. C. Larkin. No. 15,184; May 24; Gaz. vol. 154; p. 1106.
"Salted Peanuts Skyscraper Brand." (For Salted Peanuts.) Huyler's. No. 15,374; Oct. 25; Gaz. vol. 159; p. 990.
"Sanikon." (For Suppository,) C. Bardos, Jr. No. 15,156; Apr. 19; Gaz. vol. 153; p. 820.
"Sauce Mignonne." (For Sauces for Foods.) F. Reusser. No. 15,360; Oct. 18; Gaz. vol. 159; p. 746.
"Savory Mustard Catsup." (For Catsup.) A. P. Smith. No. 15,242; July 5; Gaz. vol. 156; p. 256.
"School Tablet Royal." (For Writing Books or Tablets.) Osborn Paper Company. No. 15,370; Oct. 18; Gaz. vol. 159; p. 746.
"Scot Tissue." (For Paper Toweling.) Scott Paper Company. No. 15,355; Oct. 11; Gaz. vol. 159; p. 488.
"Sealshipt Oysters." (For Oysters.) Sealshipt Oyster System. No. 15,305; Aug. 30; Gaz. vol. 157; p. 1242.
"Sellrich Bath Sponge." (For Bath-Sponges.) Freirich & Mansell. No. 15,334; Sept. 27; Gaz. vol. 158; p. 882.
"7 and 11." (For Blended Corn Whisky.) J. A. Couch. No. 15,213; June 21; Gaz. vol. 155; p. 798.
"Seyah." (For Cigars.) C. R. Hayes. No. 15,323; Sept. 20; Gaz. vol. 158; p. 700.
"Shacks Shoe Sole Saver." (For Liquid Preparation for Preserving and Waterproofing Shoe-Soles.) W. C. Shackelton. No. 15,246; July 5; Gaz. vol. 156; p. 256.
"Sharps." (For Toilet-Pins.) The Star Pin Company. No. 15,188; May 24; Gaz. vol. 154; p. 1106.
"Sharp's Sterilized Evaporated Milk." (For Evaporated Milk.) Bridgeton Condensed Milk Co. No. 15,208; June 14; Gaz. vol. 155; p. 552.
"Sister Products." (For Prepared Breakfast Foods.) Hygienic Food Co. No. 15,154; Apr. 19; Gaz. vol. 153; p. 820.
"So-Ezy." (For Foot-Powder.) Imperial Remedy Co. No. 15,333; Sept. 27; Gaz. vol. 158; p. 882.
"Sole-In." (For Rendering Shoes Waterproof.) J. Zuckerman. No. 15,165; May 3; Gaz. vol. 154; p. 250.
"Sorority Chocolates." (For Candy.) Taylor Brothers Company. No. 15,152; Apr. 19; Gaz. vol. 153; p. 820.
"Southern League Ginger Ale." (For Ginger-Ale.) W. D. Bellingrath. No. 15,277; Aug. 2; Gaz. vol. 157; p. 205.
"Special Metaloid Process Razor Strops." (For Razor-Strops.) J. S. Torrence. No. 15,428; Dec. 20; Gaz. vol. 161; p. 751.
"Standard Blue Black Writing Fluid." (For Ink.) Standard Ink Co. No. 15,160; Apr. 26; Gaz. vol. 153; p. 1080.
"Standard Mills." (For Cotton Piece Goods.) J. Epstein. No. 15,405; Nov. 22; Gaz. vol. 160; p. 1035.
"Stella D'Italia." For Flour.) P. Montana. No. 15,235; July 5; Gaz. vol. 156; p. 256.
"Step-Into Shoe." (For Shoes.) G. A. Ormiston. No. 15,335; Sept. 27; Gaz. vol. 158; p. 882.
"Step-Into Shoe." (For Shoes.) G. A. Ormiston. No. 15,381; Nov. 1; Gaz. vol. 160; p. 256.
"Stone Hill Wine Co." (For Brandy, Cognac Style.) Stone Hill Wine Co. No. 15,328; Sept. 27; Gaz. vol. 158; p. 882.
"Sun Brand." (For Dried Apples.) Wallerstein Produce Co. No. 15,392; Nov. 15; Gaz. vol. 160; p. 771.
"Sunbeam Pure Food." (For Raisins.) A. Nichols & Co. No. 15,361; Oct. 18; Gaz. vol. 159; p. 746.
"Sunflower Brand Extra Fine Granulated Sugar." (For Granulated Sugar.) United States Sugar and Land Company. No. 15,419; Dec. 13; Gaz. vol. 161; p. 527.
"Sunshine Kid Dolls." (For Dolls.) Sears, Roebuck and Co. No. 15,219; June 21; Gaz. vol. 155; p. 798.
"Sur-Pas Ink." (For a Polishing Preparation.) Peerless Ink Manufacturing Company. No. 15,245; July 5; Gaz. vol. 156; p. 256.
"Swan's Great Discovery—A Tonic for the Lungs and the Stomach." (For a Medicine.) L. H. Swan. No. 15,309; Aug. 30; Gaz. vol. 157; p. 1242.
"Sweet Hearts." (For Candy Hearts.) Huyler's. Nos. 15,144–9; Apr. 19; Gaz. vol. 153; p. 820.
"Sweet Hearts." (For Candy Hearts.) Huyler's. No. 15,164; May 3; Gaz. vol. 154; p. 250.
"Swift's Mapl-Wheat." (For Breakfast Food.) Hygienic Food Co. No. 15,104; Mar. 1; Gaz. vol. 152; p. 228.
"T. B. Dress Linen." (For Dress-Linens.) Turtle Bros. No. 15,228; June 28; Gaz. vol. 155; p. 1040.
"Table Eggs of Quality." (For Eggs.) A. Brubaker. No. 15,141; Apr. 12; Gaz. vol. 153; p. 544.
"Tampa Style." (For Cigars.) Schmidt & Co. No. 15,302; Aug. 30; Gaz. vol. 157; p. 1242.
"Taste Tells The Tale." (For Chocolates.) Snyder-Chaffee Co. No. 15,409; Nov. 29; Gaz. vol. 160; p. 1269.
"Tavern." (For Blended Coffee.) Closset & Devers. No. 15,330; Sept. 27; Gaz. vol. 158; p. 882.
"Tenby." (For Collars.) Cluett, Peabody & Co. No. 15,288; Aug. 9; Gaz. vol. 157; p. 484.
"The American Sprayer." (For Sprayers and Roller-Sprays.) American Type Founders Company. No. 15,401; Nov. 22; Gaz. vol. 160; p. 1035.
"The Bugle Call, A Game of U. S. Soldiers." (For a Game.) B. B. Bennett. No. 15,424; Dec. 13; Gaz. vol. 161; p. 527.
"The Comet." (For Invisible Hooks and Loops.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,430; Dec. 20; Gaz. vol. 161; p. 751.
"The Double Q Composition Book." (For Blank Books.) Osborn Paper Company. No. 15,214; June 21; Gaz. vol. 155; p. 798.
"The Franco-American Food Co.'s Concentrated Tomato Soup." (For Concentrated Tomato Soup.) The Franco-American Food Co. No. 15,193; May 31; Gaz. vol. 154; p. 1410.
"The Game Of Lobster." (For a Card Game.) W. M. Day. No. 15,442; Dec. 27; Gaz. vol. 161; p. 1041.
"The Game Of Uncle Sam." (For a Card Game.) G. A. Kraner. No. 15,345; Oct. 4; Gaz. vol. 159; p. 240.
"The Highland." (For Bloomer-Dresses.) A. Rosenberg & Sons. No. 15,220; June 21; Gaz. vol. 155; p. 798.

Alphabetical list of labels—Continued.

"The Home Wash Boiler." (For Washboilers.) M. Kamenstein. No. 15,221; June 21; Gaz. vol. 155; p. 798.
"The Life Of Leather." (For a Preparation for Preserving Leather.) D. W. Sankey. No. 15,440; Dec. 27; Gaz. vol. 161; p. 1041.
"The Nature's Creation Co's Discovery." (For a Remedy for Tuberculosis.) The Nature's Creation Company. No. 15,106; Mar. 1; Gaz. vol. 152; p. 228.
"The Only Original Sweet Pepper Catsup." (For Pepper Catsup.) D. C. Danove. No. 15,202; June 7; Gaz. vol. 155; p. 304.
"The Parrot." (For a Vegetable Compound for Medicinal Purposes.) R. J. Parrett. No. 15,266; July 26; Gaz. vol. 156; p. 1064.
"The Red Star Embalming Fluid." (For an Embalming Fluid.) The National Chemical and Supply Company. No. 15,121; Mar. 8; Gaz. vol. 152; p. 486.
"The W Co Scientific Ruby." (For Artificially-Made Rubies.) Wendell and Co. No. 15,299; Aug. 23; Gaz. vol. 157; p. 998.
"The W. Co. Scientific Sapphire." (For Artificially-Made Sapphires.) Wendell & Co. No. 15,325; Sept. 20; Gaz. vol. 158; p. 700.
"The W. Co. Scientific White Sapphire." (For Artificially-Made White Sapphires.) Wendell & Co. No. 15,324; Sept. 20; Gaz. vol. 158; p. 700.
"Tiny Tot." (For Dolls.) Sears, Roebuck and Co. No. 15,344; Oct. 4; Gaz. vol. 159; p. 240.
"To Wa-Kon." (For a Liquid Floor-Finish.) Westcott, Slade & Balcom Company. No. 15,227; June 28; Gaz. vol. 155; p. 1040.
"Topitall." (For Hooks and Eyes.) William Prym, Gesellschaft mit beschränkter Haftung. No. 15,260; July 19; Gaz. vol. 156; p. 796.
"Top-N-Och." (For Bread.) The Ronemous Sign Company. No. 15,194; May 31; Gaz. vol. 154; p. 1410.
"Uncle Sam." (For Candy.) W. W. De Bevoise. No. 15,383; Nov. 8; Gaz. vol. 160; p. 491.
"Union Square Waist." (For Waists.) I. B. Skudowitz. No. 15,413; Nov. 29; Gaz. vol. 160; p. 1269.
"Universal Victor." (For Cigars.) Royal Havana Cigar Mfg. Co. No. 15,140; Apr. 12; Gaz. vol. 153; p. 544.
"Velvet Grip Boston Garter." (For Hose-Supporters.) George Frost Company. No. 15,189; May 24; Gaz. vol. 154; p. 1106.
"Velvetone Hair Tonic." (For Hair-Tonic.) G. Pabst. No. 15,180; May 17; Gaz. vol. 154; p. 834.
"Victor Record." (For Records of Sounds.) Victor Talking Machine Company. No. 15,080; Feb. 8; Gaz. vol. 151; p. 448.
"Vigor Tonic." (For Stock-Powder.) Farmers' Co-Operative Remedy Co. No. 15,244; July 5; Gaz. vol. 156; p. 256.
"Violet Chips." (For Chewing-Gum.) Colgan Gum Co. No. 15,293; Aug. 16; Gaz. vol. 157; p. 751.
"Violet Chips." (For Chewing-Gum.) Colgan Gum Co. 15,313; Sept. 6; Gaz. vol. 158; p. 226.
"Violet Kid Dolls." (For Dolls.) Sears, Roebuck and Co. No. 15,217; June 21; Gaz. vol. 155; p. 798.
"Virgin." (For Head-Rice.) W. T. Welisch & Co. No. 15,386; Nov. 8; Gaz. vol. 160; p. 491.
"Virginia Dare." (For Chocolates and Bonbons.) Clifford Brothers. No. 15,151; Apr. 19; Gaz. vol. 153; p. 820.
"Vuelo de Oro." (For Cigars.) American Colortype Company. No. 15,114; Mar. 8; Gaz. vol. 152; p. 486.
"Walk-Offer Shoe for Men." (For Men's Shoes.) Zeman-Collins Shoe Co. No. 15,301; Aug. 23; Gaz. vol. 157; p. 998.
"Walsh." (For Cigars.) Schmidt & Co. No. 15,271; Aug. 2; Gaz. vol. 157; p. 205.
"Wascana." (For Cigars.) American Colortype Company. Nos. 15,125–6; Mar. 29; Gaz. vol. 152; p. 1222.
"Wear Well." (For Dolls.) Sears, Roebuck and Co. No. 15,343; Oct. 4; Gaz. vol. 159; p. 240.
"Werrbach's Samaritan Remedy." (For a Medicine.) C. F. Werrbach. No. 15,426; Dec. 20; Gaz. vol. 161; p. 751.
"West Virginia Apples." (For Apples.) J. H. Rennard Co. No. 15,362; Oct. 18; Gaz. vol. 159; p. 746.
"White Ox." (For Cigars.) Jacobs & Holtzinger Co. No. 15,095; Mar. 1; Gaz. vol. 152; p. 228.
"White Rose Sunkist Brand." (For Honey.) H. L. Meharry. No. 15,314; Sept. 6; Gaz. vol. 158; p. 226.
"Wiemann's Java Tea Blend." (For Blended Teas.) Geo. F. Wiemann Co. No. 15,263; July 26; Gaz. vol. 156; p. 1064.
"Wild Cherry Ade." (For Syrup for Making Beverages.) T. H. Clark. No. 15,398; Nov. 22; Gaz. vol. 160; p. 1035.
"Wild Flower Honey." (For Honey.) F. C. Ameiss. No. 15,415; Dec. 6; Gaz. vol. 161; p. 265.
"Williams Gray Fox Rawhide." (For Whips.) Sears, Roebuck and Co. No. 15,163; Apr. 26; Gaz. vol. 153; p. 1080.
"Williams Knickerbocker Rawhide." (For Whips.) Sears, Roebuck and Co. No. 15,161; Apr. 26; Gaz. vol. 153; p. 1080.
"Williams Spanish Rose Rawhide." (For Whips.) Sears, Roebuck and Co. No. 15,162; Apr. 26; Gaz. vol. 153; p. 1080.
"Wonder Brew." (For Bottled Beer.) Peter Schroeder Brewing Company. No. 15,167; May 3; Gaz. vol. 154; p. 250.
"Work In Comfort With Economy." (For Shoes.) J. K. Orr Shoe Company. No. 15,407; Nov. 22; Gaz. vol. 160; p. 1035.
"World's Metal Polish." (For Metal-Polish.) Kammerer Davis Mfg. Co. No. 15,396; Nov. 15; Gaz. vol. 160; p. 771.

PRINTS.

"A Cereal Serial Story." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,617; July 12; Gaz. vol. 156; p. 536.

"A Cluett Shirt." (For Shirts.) Cluett, Peabody & Company. No. 2,613; July 5; Gaz. vol. 156; p. 256.

"A Sweetly Solemn Thought." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,661; Nov. 8; Gaz. vol. 160; p. 491.

"A Whole Wheat Food." (For Shredded Wheat.) The Shredded Wheat Company. No. 2,676; Dec. 27; Gaz. vol. 161; p. 1041.

"A Woman's Answer." (For Flour.) Washburn Crosby Company. No. 2,558; Mar. 8; Gaz. vol. 152; p. 486.

"All Suits All Overcoats $15 No More No Less." (For Suits and Overcoats.) W. A. Hersch. No. 2,637; Sept. 6; Gaz. vol. 158; p. 226.

"Anti Germ Disinfectant Powder." (For Carbolic Disinfectant-Powder.) Smith & Agnew Disinfectant Co. No. 2,639; Sept. 13; Gaz. vol. 158; p. 480.

"Arguto." (For Non-Metallic Bearings.) Arguto Oilless Bearing Company. No. 2,583; Apr. 12; Gaz. vol. 153; p. 544.

"Arrow Collars And Cluett Shirts." (For Collars and Shirts.) Cluett, Peabody & Company. No. 2,666; Nov. 8; Gaz. vol. 160; p. 491.

"Ask Her Any Time." (For Pureoxia Ginger-Ale.) The W. F. Powers Company. No. 2,586; May 3; Gaz. vol. 154; p. 250.

"Ask the Man." (For Raven Aperient.) The Gray Lithograph Co. No. 2,579; Apr. 12; Gaz. vol. 153; p. 544.

"Aunt Dinah On Ironing Day." (For Electric Heating Devices.) The Cutler-Hammer Mfg. Co. No. 2,657; Nov. 1; Gaz. vol. 160; p. 256.

"B. E. D. Bengaline Poplin." (For Silk and Wool Fabrics.) B. E. David. No. 2,634; Aug. 30; Gaz. vol. 157; p. 1242.

"Baby's Own Soap." (For Soap.) W. M. Curtis. No. 2,649; Oct. 11; Gaz. vol. 159; p. 488.

"Baking Fit To Write About." (For Flour.) Washburn Crosby Company. No. 2,648; Oct. 11; Gaz. vol. 159; p. 488.

"Becky, I Know Him." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,642; Sept 20; Gaz. vol. 158; p. 700.

"Best for Biscuits Also." (For Flour.) Washburn Crosby Company. No. 2,599; June 7; Gaz. vol. 155; p. 304.

"'Best' Snow Pants." (For Boys' Knit Pants.) Best & Co. No. 2,646; Oct. 4; Gaz. vol. 159; p. 240.

"Better Than I Can Make." (For Plum-Pudding.) Richardson & Robbins Co. No. 2,667; Nov. 15; Gaz. vol. 160; p. 771.

"Built Like a Violin." (For Pianos.) Schumann Piano Company. No. 2,641; Sept. 13; Gaz. vol. 158; p. 480.

"Burke's Blotter March 1910." (For Stout.) Edward & John Burke Limited. No. 2,559; Mar. 22; Gaz. vol. 152; p. 956.

"Chamberlin Equipment." (For Metal Weather-Strips.) Chamberlin Metal Weather Strip Co. No. 2,651; Oct. 11; Gaz. vol. 159; p. 488.

"Chanticler's First Appearance On Broadway." (For Hunyadi Janos, a Natural Laxative Water.) O. J. Gude Co. No. 2,624; Aug. 2; Gaz. vol. 156; p. 205.

"Children and Clock." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,587; May 3; Gaz. vol. 154; p. 250.

"Clever Clothes." (For Garments.) Steefel, Strauss & Connor. No. 2,635; Aug. 30; Gaz. vol. 157; p. 1242.

"Cluett Shirts." (For Shirts.) Cluett, Peabody & Company. No. 2,672; Dec. 6; Gaz. vol. 161; p. 265.

"Country Life In America." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,656; Nov. 1; Gaz. vol. 160; p. 256.

"Cross-Section Showing Construction of Stoddard-Kewanee Water-Heating Garbage-Burner." (For Water-Heating Garbage-Burner.) Kewanee Boiler Company. No. 2,574; Apr. 5; Gaz. vol. 153; p. 269.

"Cut of Mattress." (For Mattresses.) Sears, Roebuck and Co. Nos. 2,566–73; Apr. 5; Gaz. vol. 153; p. 269.

"Deering." (For Mowing-Machines.) The Hayes Lithographing Co. No. 2,560; Mar. 29; Gaz. vol. 152; p. 1222.

"Don't Forget Cream Of Wheat." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,671; Dec. 6; Gaz. vol. 161; p. 265.

"'Elite' Cloth Cleaning Pad." (For Cleaning-Pads.) B. L. Williams. No. 2,591; May 17; Gaz. vol. 154; p. 834.

"Encore." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,585; Apr. 19; Gaz. vol. 153; p. 820.

"'Eureka' Cloth Cleaning Pad." (For Cloth-Cleaning Pads.) J. Thompson. No. 2,596; May 31; Gaz. vol. 154; p. 1410.

"Gas Heater." (For Gas-Heaters.) Seed Filter & Mfg. Company. No. 2,653; Oct. 25; Gaz. vol. 159; p. 990.

"Gilt Edge Champagne." (For Champagne.) Hammondsport Vintage Co. No. 2,654; Nov. 1; Gaz. vol. 160; p. 256.

"Graflex." (For Cameras.) Folmer & Schwing Division Eastman Kodak Co. No. 2,614; July 5; Gaz. vol. 156; p. 256.

"Greenfield's Chocolate Sponge and Delatour Chocolates." (For Chocolate Candy.) E. Greenfield's Son & Co. No. 2,565; Apr. 5; Gaz. vol. 153; p. 269.

"Have You Heard About This?" (For Flour.) Washburn Crosby Company. No. 2,561; Mar. 29; Gaz. vol. 152; p. 1222.

"Hawk-Eye Cameras." (For Cameras.) Blair Camera Division Eastman Kodak Co. No. 2,601; June 7; Gaz. vol. 155; p. 304.

"Hello Bill!" (For Cigars.) E. E. Holipeter. No. 2,643; Oct. 4; Gaz. vol. 159; p. 240.

"(I-Want-A) Boys and Girls Rompers and Union Suits." (For Rompers, Union Suits, Pajamas, Nighties, Blouses, and Play-Suits.) L. Newhoff. No. 2,674; Dec. 20; Gaz. vol. 161; p. 751.

"Improved Complete Mainspring Order Sheet." (For Mainsprings for Watches.) A. C. Becken Company. No. 2,625; Aug. 2; Gaz. vol. 157; p. 205.

"In Justice to the Cook." (For Flour.) Washburn Crosby Company. No. 2,604; June 21; Gaz. vol. 155; p. 798.

"Interwoven." (For Hosiery.) Interwoven Stocking Company. No. 2,652; Oct. 25; Gaz. vol. 159; p. 990.

"July 4th." (For Flour.) Washburn Crosby Company. No. 2,616; July 12; Gaz. vol. 156; p. 536.

"King Arthur." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,629; Aug. 9; Gaz. vol. 157; p. 484.

"Kronberger's California Eucalyptus." (For Eucalyptus Cough-Syrup and Gargle.) I. B. Kronberger. No. 2,578; Apr. 12; Gaz. vol. 153; p. 544.

"Leon Valley Magnesia Water." (For Magnesia Water.) J. C. Dallas. No. 2,610; July 5; Gaz. vol. 156; p. 256.

"Let There Be Light." (For Street-Lamps.) T. R. Treiber. No. 2,620; July 19; Gaz. vol. 156; p. 796.

"Light Housekeepers." (For Flour.) Washburn Crosby Company. No. 2,647; Oct. 11; Gaz. vol. 159; p. 488.

"Lion Brand Agricultural Sprays." (For Spraying Materials.) The James A. Blanchard Co. No. 2,607; June 21; Gaz. vol. 155; p. 798.

"Long Service Outweighs Price." (For Leather Belting.) Alexander Brothers. No. 2,590; May 3; Gaz. vol. 154; p. 250.

"Luscious Tokay Grapes." (For Tokay Grapes.) California Fruit Distributors. No. 2,670; Nov. 29; Gaz. vol. 160; p. 1269.

"Luxurie." (For Cigars.) Sheppard-Strassheim Co. No. 2,589; May 3; Gaz. vol. 154; p. 250.

"Margate An Arrow Collar." (For Collars.) Cluett, Peabody & Company. No. 2,644; Oct. 4; Gaz. vol. 159; p. 240.

"Mendelsohn's Newspaper Cut Service for Brewers and Bottlers." (For Beer.) F. Mendelsohn. No. 2,602; June 14; Gaz. vol. 155; p. 552.

"Mercerized XX Poplin." (For Mercerized Poplin.) H. Glass & Company. No. 2,658; Nov. 1; Gaz. vol. 160; p. 256.

"Method of Casting Gas Engine Pistons." (For Gas-Engine Pistons.) W. W. McCarter. No. 2,597; May 31; Gaz. vol. 154; p. 1410.

"Muto Convertible." (For Collars for Garments.) Muto Sales Co. No. 2,606; June 21; Gaz. vol. 155; p. 798.

"New Arrow Notch Collars." (For Collars.) Cluett, Peabody & Company. No. 2,664; Nov. 8; Gaz. vol. 160; p. 491.

"New Home." (For Sewing-Machines.) The New Home Sewing Machine Company. No. 2,673; Dec. 13; Gaz. vol. 161; p. 527.

"Nothing Too Good for Baby." (For Devices for Keeping Babies Covered.) Whitney Co. No. 2,619; July 19; Gaz. vol. 156; p. 796.

"One of the Sights of 'The Great White Way.'" (For Champagne.) The O. J. Gude Co. No. 2,598; June 7; Gaz. vol. 155; p. 304.

"Only A Dip." (For Laundry Bluing.) Reckitts (U. S. A.) No. 2,645; Oct. 4; Gaz. vol. 159; p. 240.

"Order Your Beer by Number." (For Lager-Beer.) J. M. Frey. No. 2,655; Nov. 1; Gaz. vol. 160; p. 256.

Alphabetical list of prints—Continued.

"Our Mill Will Fill the Bill." (For Lace Curtains.) J. D. H. Schulz. No. 2,623; July 26; Gaz. vol. 156; p. 1064.
"Piano Evolution." (For Pianos.) W. F. Main. No. 2,608; June 21; Gaz. vol. 155; p. 798.
"Plait Nattée." (For Human-Hair Goods.) A. Simonson. No. 2,584; Apr. 19; Gaz. vol. 153; p. 820.
"Pro-Phy-Lac-Tic Tooth Brush." (For Tooth-Brushes.) Florence Manufacturing Company. No. 2,669; Nov. 22; Gaz. vol. 160; p. 1035.
"Riz La + Cigarette Paper." (For Cigarette-Papers.) The American Tobacco Company. No. 2,633; Aug. 30; Gaz. vol. 157; p. 1242.
"Roadside Scene, American Fence." (For Wire Fences.) The American Steel & Wire Company of New Jersey. No. 2,588; May 3; Gaz. vol. 154; p. 250.
"Rug." (For Rugs.) H. O. Ambrookian & Co. No. 2,660; Nov. 1; Gaz. vol. 160; p. 256.
"Safety Stopper for Poison Bottles." (For Stoppers for Bottles.) L. Inglee and C. M. Hart. No. 2,564; Mar. 29; Gaz. vol. 152; p. 1222.
"Schoenhut." (For Toy Pianos.) The A. Schoenhut Company. No. 2,581; Apr. 12; Gaz. vol. 153; p. 544.
"Seasbest." (For Cured Salt Fish.) W. H. Jordan & Co. No. 2,630; Aug. 9; Gaz. vol. 157; p. 484.
"Sectional View Showing Stoddard-Kewanee Water-Heating Garbage-Burner in Operation." (For Garbage-Burner.) Kewanee Boiler Company. No. 2,576; Apr. 5; Gaz. vol. 153; p. 269.
"Simplified Flour Mill Model." (For Flour.) Washburn Crosby Company. No. 2,563; Mar. 29; Gaz. vol. 152; p. 1222.
"Something New! The Brahams Phantographs." (For Phantographs.) L. Braham. No. 2,603; June 14; Gaz. vol. 155; p. 552.
"Stack Enamels." (For Stack-Enamels.) W. C. Anderson. No. 2,611; July 5; Gaz. vol. 156; p. 256.
"Standard Folding Typewriter." (For Type-Writing Machines.) Standard Folding Typewriter Sales Co. No. 2,593; May 24; Gaz. vol. 154; p. 1106.
"Steel Art." (For Steel Filing-Cases.) Fireproof Furniture & Construction Company. No. 2,636; Aug. 30; Gaz. vol. 157; p. 1242.
"Stoddard-Kewanee Garbage-Burner Connected to Kewanee Tank." (For Garbage-Burner.) Kewanee Boiler Company. No. 2,575; Apr. 5; Gaz. vol. 153; p. 269.
"Teasing." (For Toasted Corn-Flakes.) Kellogg Toasted Corn Flake Co. No. 2,618; July 12; Gaz. vol. 156; p. 536.
"Test it With Your Heel." (For Floor-Varnish.) Pratt & Lambert. No. 2,595; May 31; Gaz. vol. 154; p. 1410.
"The Breakfast Question." (For Flour.) Washburn Crosby Company. No. 2,557; Mar. 8; Gaz. vol. 152; p. 486.
"The Donchester Is A Cluett Dress Shirt." (For Shirts.) Cluett, Peabody & Company. No. 2,665; Nov. 8; Gaz. vol. 160; p. 491.
"The Foundation of Successful Baking." (For Flour.) Washburn Crosby Company. No. 2,638; Sept. 13; Gaz. vol. 158; p. 480.
"The Indian." (For Toasted Corn Flakes.) Kellogg Toasted Corn Flake Co. No. 2,632; Aug. 23; Gaz. vol. 157; p. 998.
"The Life Saver." (For Rubber Boots.) The W. F. Powers Company. No. 2,659; Nov. 1; Gaz. vol. 160; p. 256.
"The Mark G. Harris Easy Sleeve." (For Coats.) M. G. Harris. No. 2,640; Sept. 13; Gaz. vol. 158; p. 480.
"The McMurray Sulky Co." (For Sulkies.) The McMurray Sulky Co. No. 2,615; July 5; Gaz. vol. 156; p. 256.
"The Modern Method of Heating and Ventilating a School Room." (For Heating Apparatus.) Charles Smith Company. No. 2,592; May 17; Gaz. vol. 154; p. 834.
"The New Arrow Collars." (For Collars.) Cluett, Peabody & Company. No. 2,612; July 5; Gaz. vol. 156; p. 256.
"The Noiseless Typewriter." (For Type-Writers.) The Noiseless Typewriter Company. No. 2,663; Nov. 8; Gaz. vol. 160; p. 491.
"The Outlook Human Hair Net." (For Hair-Nets.) Burnet and Temple Limited. No. 2,605; June 21; Gaz. vol. 155; p. 798.
"The Pool Room as a Business Proposition." (For Billiard and Pool Tables.) T. R. Treiber. No. 2,621; July 19; Gaz. vol. 156; p. 796.
"The Pulsometer Steam Pump." (For Steam-Pumps.) Pulsometer Steam Pump Co. No. 2,675; Dec. 20; Gaz. vol. 161; p. 751.
"The Radioptican in the Home." (For Advertising Purposes for Projecting-Lanterns.) H. C. White Co. No. 2,631; Aug. 9; Gaz. vol. 157; p. 484.
"The Simpson Girl." (For Beverages.) Simpson Spring Co. No. 2,668; Nov. 22; Gaz. vol. 160; p. 1035.
"The Stoddard-Kewanee Water-Heating Garbage-Burner." (For Garbage-Burner.) Kewanee Boiler Company. No. 2,577; Apr. 5; Gaz. vol. 153; p. 269.
"These Men—and a Thousand More." (For Flour.) Washburn Crosby Company. No. 2,609; July 5; Gaz. vol. 156; p. 256.
"Tulip Fruit Jar Ring." (For Jar-Rings.) Empire Rubber Mfg. Co. No. 2,580; Apr. 12; Gaz. vol. 153; p. 544.
"Washburn-Crosby Mills." (For Flour.) Washburn Crosby Company. No. 2,600; June 7; Gaz. vol. 155; p. 304.
"Webster-Whitcomb Improved Universal Head and Jaws." (For Universal Heads and Jaws.) American Watch Tool Company. No. 2,627; Aug. 2; Gaz. vol. 157; p. 205.
"Webster-Whitcomb Improved Universal Plate and Jaws." (For Universal Plates and Jaws.) American Watch Tool Company. No. 2,628; Aug. 2; Gaz. vol. 157; p. 205.
"Webster-Whitcomb Screw Tailstock." (For Screw Tail-Stocks.) American Watch Tool Company. No. 2,650; Oct. 11; Gaz. vol. 159; p. 488.
"Webster-Whitcomb Three Slided Slide Rest." (For Three-Slided Slide-Rests.) American Watch Tool Company. No. 2,626; Aug. 2; Gaz. vol. 157; p. 205.
"When You Buy." (For Flour.) Washburn Crosby Company. No. 2,562; Mar. 29; Gaz. vol. 152; p. 1222.
"Why Some Pool Halls are Refused License." (For Billiard and Pool Tables.) T. R. Treiber. No. 2,622; July 19; Gaz. vol. 156; p. 796.
"Wireless Alarms." (For Alarm-Clocks.) Marshall-Wells Hardware Company. No. 2,582; Apr. 12; Gaz. vol. 153; p. 544.
"You May Dent The Wood But You Can't Crack the Varnish." (For Floor-Varnish.) Pratt & Lambert. No. 2,594; May 31; Gaz. vol. 154; p. 1410.

DISCLAIMERS.

Bolster. C. E. Bauer. No. 593,410; date of patent Nov. 9, 1897; disclaimer filed Feb. 16, 1910; Gaz. vol. 151; p. 1017.

Crane. G. W. Shem. No. 791,951; date of patent June 6, 1905; disclaimer filed Mar. 28, 1910; Gaz. vol. 153; p. 1.

Edge-setter iron with stitch-wheel. M. F. Lindberg. No. 839,012; date of patent Dec. 18, 1906; disclaimer filed June 27, 1910; Gaz. vol. 156; p. 261.

Electromagnetic signal-controlling device. H. M. Crane. No. 890,220; date of patent June 9, 1908; disclaimer filed Dec. 6, 1910; Gaz. vol. 161; p. 533.

Guide-wheel. A. H. Mathesius. No. 754,473; date of patent Mar. 15, 1904; disclaimer filed Sept. 24, 1910; Gaz. vol. 159; p. 244.

Paper bag. H. G. Widmer. No. 904,167; date of patent Nov. 17, 1908; disclaimer filed Jan. 21, 1910; Gaz. vol. 151; p. 197.

Press for making screw-insulators. S. Kribs. No. 542,565; date of patent July 9, 1895; disclaimer filed Feb. 25, 1910; Gaz. vol. 152; p. 491.

Railway track-car. M. L. Jenkins. No. 920,201; date of patent Jan. 19, 1909; disclaimer filed Oct. 13, 1910; Gaz. vol. 159; p. 995.

Self-opening bag. H. G. Widmer. No. 904,168; date of patent Nov. 17, 1908; disclaimer filed Jan. 21, 1910; Gaz. vol. 151; p. 198.

Self-opening paper bag. H. G. Widmer. No. 904,169; date of patent Nov. 17, 1908; disclaimer filed Jan. 21, 1910; Gaz. vol. 151; p. 198.

Singeing-machine. T. Allsop and W. W. Sibson. No. 919,999; date of patent Apr. 27, 1909; disclaimer filed June 10, 1910; Gaz. vol. 155; p. 803.

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